

CE RADIO TEST REPORT

Test Report No.:	R260608001-02
Product Name:	GPON ONT
Brand name:	KAON BROADBAND
Product Model:	PG2142R
Series models:	N/A
Applicant:	KAON BROADBAND Co. Ltd
Address:	7F KAONGROUP Bld., 884-3 Sungnamdaero, Bundang-gu, Sungnam-si, Republic of Korea
Date of Receipt:	Jun. 08, 2026
Date of Test:	Jun. 08, 2026~Aug. 15, 2026
Issued Date:	Sep. 07, 2026
Standards:	ETSI EN 301 893 V2.1.1 (2017-05)
Testing Laboratory:	WU HAN BAO MU TESTING CO., LTD.

Prepared By:	Checked By:	Approved By:	
Anson fan	Krain Wu	Vic Cai	
Anson Fan	Krain Wu	Vic Cai	

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History of this test report

Original Report Issue Date: 2026/09/07

- No additional attachment
- Additional attachments were issued following record

Attachment No.	Issue Date	Description

1. General Information

1.1 Basic information of EUT

Product No.	POC260608001-S-R001
Product Name	GPON ONT
Product Model	PG2142R
Series models	N/A
Model difference	N/A
Trade Mark	
Power supply	DC 12V from adapter
Adapter Information	Model: AD-0181200150EU-S INPUT:100V-240V~,50/60Hz,0.6A; OUTPUT:12Vdc, 1.5A
Applicant	KAON BROADBAND Co. Ltd
Applicant Address:	7F KAONGROUP Bld., 884-3 Sungnamdaero, Bundang-gu, Sungnam-si, Republic of Korea
Manufacturer	KAON BROADBAND Co. Ltd
Manufacturer Address:	7F KAONGROUP Bld., 884-3 Sungnamdaero, Bundang-gu, Sungnam-si, Republic of Korea
Factory	Bowei Technology Co., Ltd
Factory Address:	2F, Building 2, No. 306 Gushui Road, Haining Economic Development Zone, Haining, Jiaxing City, Zhejiang, 314499, China

Note: "N/A" indicates "Not Applicable".

1.2 Basic Description of Equipment Under Test

Items	Description			
Operate temperature	0℃-40℃			
Operating Band	Band	Mode	Frequency Range (MHz)	Number of channels
	U-NII Band I	IEEE 802.11a	5180-5240	4
		IEEE 802.11n/ac/ax 20MHz	5180-5240	4
		IEEE 802.11n/ac/ax 40MHz	5190-5230	2
		IEEE 802.11ac/ax 80MHz	5210	1
	U-NII Band II-2A	IEEE 802.11a	5260-5320	4
		IEEE 802.11n/ac/ax 20MHz	5260-5320	4
		IEEE 802.11n/ac/ax 40MHz	5270-5310	2
		IEEE 802.11ac/ax 80MHz	5290	1
	U-NII Band I and U-NII Band II-2A	IEEE 802.11ac/ax160MHz	5250	1
	U-NII Band II-2C	IEEE 802.11a	5500-5700	11
		IEEE 802.11n/ac/ax 20MHz	5500-5700	11
		IEEE 802.11n/ac/ax 40MHz	5510-5670	5
		IEEE 802.11ac/ax 80MHz	5530-5610	2
Product Type	For IEEE 802.11a: WLAN(2TX) For IEEE 802.11n: WLAN(2TX) For IEEE 802.11ac: WLAN(2TX) For IEEE 802.11ax: WLAN(2TX)			
Nominal Bandwidth	20MHz / 40MHz / 80MHz / 160MHz			
Modulation	IEEE 802.11a: OFDM (BPSK / QPSK / 16QAM / 64QAM) IEEE 802.11n: (BPSK / QPSK / 16QAM / 64QAM) IEEE 802.11ac: (BPSK / QPSK / 16QAM / 64QAM / 256QAM) IEEE 802.11ax: (BPSK / QPSK / 16QAM / 64QAM / 256QAM /1024QAM)			
Data Rate (Mbps)	IEEE 11a mode : OFDM (6/9/12/18/24/36/48/54) IEEE 11n mode : MCS0~MCS31 IEEE 11ac mode : MCS0~MCS9 IEEE 11ax mode : MCS0~MCS11			
User Mode	Access point			
TPC Function	●	With TPC	○	Without TPC
Beamforming Function	○	With Beamforming	●	Without Beamforming
User Access Restrictions	●	DFS controls (hardware and software) related to radar detection are NOT accessible to the user		
DFS Function (Master devices)	●	5250MHz ~5350MHz		
	●	5470MHz ~5725MHz		
	●	5600MHz ~5650MHz(Weather radar band)		
Channel Information				

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	802.11a /n /ac /ax (20MHz)	5180-5240	36-48
5250-5350		5260-5320	52-64
5470-5725		5500-5700	100-140
5150-5250	802.11n /ac /ax (40MHz)	5190-5230	38-46
5250-5350		5270-5310	54-62
5470-5725		5510-5670	102-134
5150-5250	802.11ac /ax (80MHz)	5210	42
5250-5350		5290	58
5470-5725		5530-5610	106-122
5150-5250	802.11ac/ ax (160MHz)	5250	50
5250-5350			
5470-5725		5570	114

1.1 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	FPC	N/A	3.3
2	N/A	N/A	FPC	N/A	3.3

2. Summary of Test Results

2.1 Summary of Test Items

Test item	Test requirement refer to clause	Test method refer to clause	Results
Nominal Centre Frequency	4.2.1	5.4.2	Pass
Nominal Channel Bandwidth (NCB) and Occupied Channel Bandwidth (OCB)	4.2.2	5.4.3	Pass
			Pass
			Pass
			Pass
			Pass
RF Output Power Transmit Power Control (TPC)	4.2.3	5.4.4	Pass
			Pass
			Pass
			Pass
			Pass
Power Density	4.2.3	5.4.4	Pass
			Pass
			Pass
Transmitter Unwanted Emissions outside the 5 GHz RLAN Bands	4.2.4	5.4.5	Pass
Transmitter Unwanted Emissions within the 5 GHz RLAN Bands	4.2.4	5.4.6	Pass
Receiver Spurious Emissions	4.2.5	5.4.7	Pass
Dynamic Frequency Selection (DFS)	4.2.6	5.4.8	Pass
Adaptivity (Channel Access Mechanism)	4.2.7	5.4.9	Pass
Receiver Blocking	4.2.8	5.4.10	Pass

2.2 Application of Harmonized Standard

No.	Reference Standards	Standards Title
1	ETSI EN 301 893 V2.1.1 (2017-05)	5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

2.3 Test Instruments

Name of Equipment (software)	Manufacturer	Model Number (software version)	Serial Number	Last Calibration	Due Calibration
Radiated Emission					
EMI Receiver	Rohde&Schwarz	ESU40	1302.6005K40	2025/7/25	2026/7/24
				2026/7/20	2027/7/19
Integral Antenna	Schwarzbeck	VULB 9168	01699	2025/8/1	2026/7/31
				2026/7/20	2027/7/19
Integral Antenna	Schwarzbeck	BBHA 9120D	02958	2025/7/22	2026/7/21
				2026/7/20	2027/7/19
Preamplifier	CHENYI	TAP031030	AP23A8060278	2025/7/25	2026/7/24
				2026/7/20	2027/7/19
Preamplifier	Tonscend	TAP011840	AP24I8060364	2026/7/20	2027/7/19
				2026/7/20	2027/7/19
Filter bank	Tonscend	JS0806-F	24C806F0829	NA	NA
RF Cable	Times	SFT-205	N/A	NA	NA
RF Cable	Times	HF160	N/A	NA	NA
RF Switch unit	Tonscend	JS0806s	24c806s0836	NA	NA
JS32-RE	Tonscend	V5.0.0	N/A	N/A	N/A
Conducted test					
Spectrum analyzer	keysight	N9040B-550	MY60080424	2025/7/29	2026/7/28
				2026/7/20	2027/7/19
Spread spectrum unit	Tonscend	TS-WF7U	24G806WF7U0892	NA	NA
Power Test unit	Tonscend	JS0806-2	24F80620864	2025/8/18	2026/8/17
Temperature Chamber	CHINHUNG	JHHA-615T-165L	JH7412	2026/03/27	2027/03/26
JS1120-3	Tonscend	V3.2.22	N/A	N/A	N/A
Adaptive&DFS&Blocking					
Spectrum analyzer	keysight	N9040B-550	MY60080424	2025/7/29	2026/7/28
				2026/7/20	2027/7/19
Signaling Tester	R&S	CMW500	1201.0002k50-170909-mh	2025/7/29	2026/7/28
				2026/7/20	2027/7/19
Signal generator	keysight	N5182B	MY61252681	2025/7/29	2026/7/28

				2026/7/20	2027/7/19
Signal generator	keysight	N5173B-540	MY61252781	2025/7/29	2026/7/28
				2026/7/20	2027/7/19
JS1120-3	Tonscend	V3.2.22	N/A	N/A	N/A

Note: 1. "N/A" denotes no model name, serial no. or calibration specified.

2.4 Test Mode

Test	Clause	Test channels		
		Lower sub-band (5150 MHz to 5350 MHz)		Higher sub-band 5470 MHz to 5725 MHz
		5150 MHz to 5250 MHz	5 250 MHz to 5 350 MHz	-
Centre frequencies	5.4.2	C7 (see note 1)		C8 (see note 1)
Occupied Channel Bandwidth	5.4.3	C7		C8
Power, Power Density	5.4.4	C1	C2	C3, C4
Transmitter unwanted emissions outside the 5 GHz RLAN bands	5.4.5	C7 (see note 1)		C8 (see note 1)
Transmitter unwanted emissions within the 5 GHz RLAN bands	5.4.6	C1	C2	C3, C4
Receiver spurious emissions	5.4.7	C7 (see note 1)		C8 (see note 1)
Transmit Power Control (TPC)	5.4.4	n.a. (see note 2)	C2 (see note 1)	C3, C4 (see note 1)
Dynamic Frequency Selection (DFS)	5.4.8	n.a. (see note 2)	C5	C6 (see note 3)
Adaptivity	5.4.9	C9		
Receiver Blocking	5.4.10	C7		C8
C1, C3: The lowest declared channel for every declared Nominal Channel Bandwidth within this band. For the Power Density testing, it is sufficient to only perform this test using the lowest Nominal Channel Bandwidth.				
C2, C4: The highest declared channel for every declared Nominal Channel Bandwidth within this band. For the Power Density testing, it is sufficient to only perform this test using the lowest Nominal Channel Bandwidth.				
C5, C6: One channel out of the declared channels for this frequency range. If more than one Nominal Channel Bandwidth has been declared for this sub-band, testing shall be performed using the lowest and highest Nominal Channel Bandwidth.				
C7, C8: One channel out of the declared channels for this sub-band. For Occupied Channel Bandwidth, testing shall be repeated for every declared Nominal Channel Bandwidth within this sub-band.				
C9: One channel (in case of single-channel testing) or a group of channels (in case of multi-channel testing) out of the declared channels.				
Note 1: In case of more than one channel plan has been declared, testing of these specific requirements need only be performed using one of the declared channel plans.				
Note 2: Testing is not required for Nominal Channel Bandwidths that fall completely within the frequency range 5150 MHz to 5250 MHz.				

Note 3: Where the declared channel plan includes channels whose Nominal Channel Bandwidth falls completely or partly within the 5600 MHz to 5650 MHz band, the tests for the Channel Availability Check (and where implemented, for the Off-Channel CAC) shall be performed on one of these channels in addition to a channel within the band 5470 MHz to 5600 MHz or within the band 5650 MHz to 5725 MHz.

2.5 Test Conditions

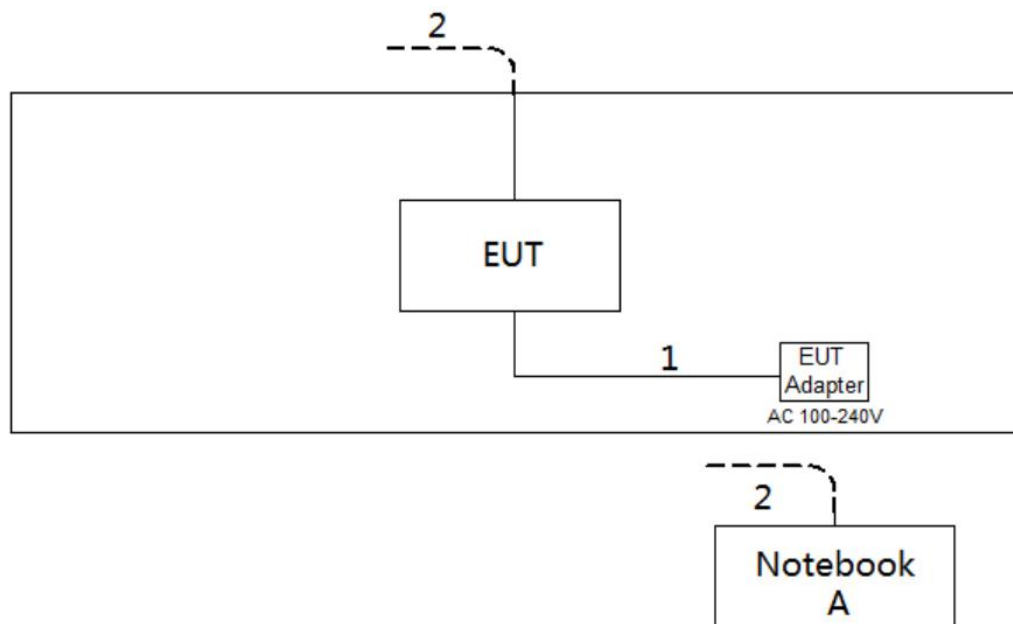
Environment Parameter	100.2KPa	
Relative Humidity	49%	
Value	Temperature(°C)	Voltage AC(V)
NTNV	25	230
LTNV	0	230
HTNV	40	230

Remark:

- 1) The EUT just work in such extreme temperature of 0°C~+40°C.
- 2) NV: Normal Voltage
NT: Normal Temperature
LT: Low Extreme Test Temperature
HT: High Extreme Test Temperature

2.6 Test system information

2.6.1 Configure of system under test



2.6.2 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Equipment	Model	Brand	Series No
A	NoteBook	V14G4AMN	Lenovo	82YT0009CD

For detachable type I/O cable should be specified the length in min Length column

No.	Cable	Shielded Type	Type	Note
1	Cable1	NO	NO	DC Cable
2	Cable2	NO	NO	RJ45

2.7 Measurement Uncertainty

Uncertainty	
Parameter	Uncertainty
Centre frequencies	± 0.0005
Occupied Channel Bandwidth	$\pm 0.0196\%$
RF output power	± 1.24 dB
RF power density	± 1.122 dB
Radiated emission (30MHz~1GHz)	± 4.62 dB
Radiated emission (1GHz~26GHz)	± 1.328 dB

2.8 Test Location

WU HAN BAO MU TESTING CO., LTD.

2nd floor, Building 1, Building 11, Gemdale Viseen Jiangxia Intelligent Manufacturing Industrial Park, NO.6 ,
Hejiahu Street, Daqiao New District, Jiangxia District, Wuhan City, Hubei Province

2.9 Deviation from Standards

None

2.10 Abnormalities from Standard Conditions

None

3. Test Procedure and Results

3.1 Nominal Centre Frequencies Test (Refer to clause 4.2.1)

3.1.1 Limit

Nominal Centre Frequency Limit
The actual centre frequency for any given channel declared by the manufacturer shall be maintained within the range $f_c \pm 20$ ppm.

3.1.2 Test Peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Record PC	Lenovo	M4000q	N/A

3.1.3 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Environmental conditions	
☐ Normal	☒ Normal and Extreme
Note: ● : Test ○ : No Test	

a) The EUT shall be connected to spectrum analyzer and operated in an un-modulated mode.

b) These measurements shall also be performed at normal and extreme test conditions.

c) Spectrum Settings

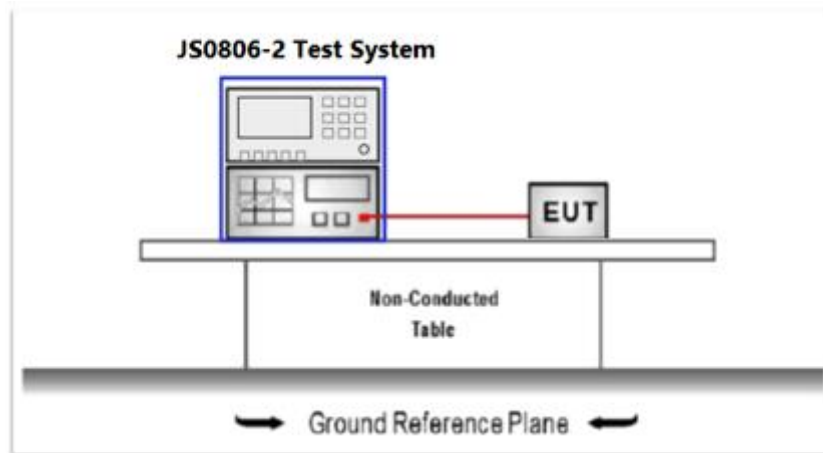
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	40MHz
RBW	10 kHz
VBW	30 kHz
Sweep Time	Auto

d) The peak value of the signal shall be measured and noted when the spectrum analyzer in the 'Max Hold' status. This value shall be noted as F.

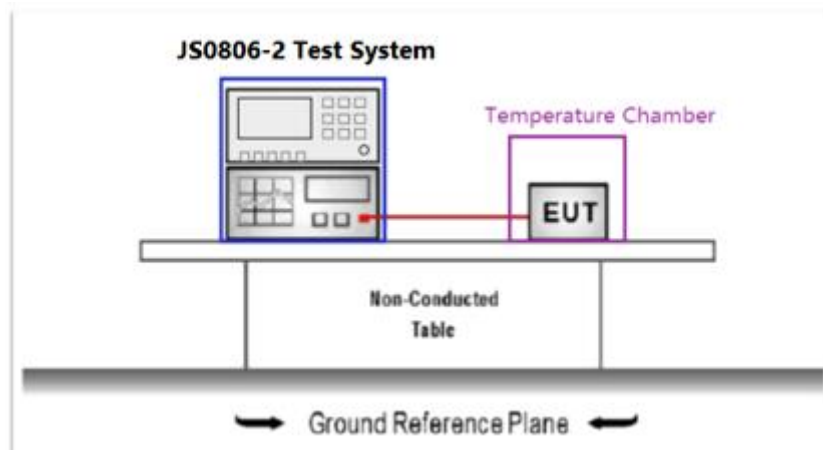
e) The frequency error is calculated as $(F - F_c) / F_c$ (F_c means channel centre frequency), record the test result.

3.1.4 Test Configuration

Normal Conditions :



Extreme Conditions :



3.1.5 Test Result of Nominal Centre Frequencies

3.1.5.1 Test Result

Test Condition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	11A-CDD	Ant1	5180	-3.86100	±20	PASS
		Ant2	5180	-3.86100	±20	PASS
		Ant1	5500	-3.63636	±20	PASS
		Ant2	5500	-3.63636	±20	PASS
	11N20MIMO	Ant1	5180	-7.72201	±20	PASS
		Ant2	5180	-7.72201	±20	PASS
		Ant1	5500	-7.27273	±20	PASS
		Ant2	5500	-3.63636	±20	PASS
	11N40MIMO	Ant1	5190	-7.70713	±20	PASS
		Ant2	5190	-7.70713	±20	PASS
		Ant1	5510	-7.25953	±20	PASS
		Ant2	5510	-7.25953	±20	PASS
	11AC20MIMO	Ant1	5180	-3.86100	±20	PASS
		Ant2	5180	-3.86100	±20	PASS
		Ant1	5500	-3.63636	±20	PASS
		Ant2	5500	-3.63636	±20	PASS
	11AC40MIMO	Ant1	5190	-7.70713	±20	PASS
		Ant2	5190	-7.70713	±20	PASS
		Ant1	5510	-7.25953	±20	PASS
		Ant2	5510	-7.25953	±20	PASS
	11AC80MIMO	Ant1	5210	0.00000	±20	PASS
		Ant2	5210	0.00000	±20	PASS
		Ant1	5530	0.00000	±20	PASS
		Ant2	5530	0.00000	±20	PASS
	11AC160MIMO	Ant1	5250	0.00000	±20	PASS
		Ant2	5250	0.00000	±20	PASS
		Ant1	5570	0.00000	±20	PASS
		Ant2	5570	0.00000	±20	PASS
	11AX20MIMO	Ant1	5180	-7.72201	±20	PASS
		Ant2	5180	-7.72201	±20	PASS
		Ant1	5500	-7.27273	±20	PASS
		Ant2	5500	-7.27273	±20	PASS
	11AX40MIMO	Ant1	5190	0.00000	±20	PASS
		Ant2	5190	-7.70713	±20	PASS
		Ant1	5510	7.25953	±20	PASS
		Ant2	5510	0.00000	±20	PASS
	11AX80MIMO	Ant1	5210	0.00000	±20	PASS
		Ant2	5210	-15.35509	±20	PASS

		Ant1	5530	0.00000	±20	PASS
		Ant2	5530	0.00000	±20	PASS
	11AX160MIMO	Ant1	5250	0.00000	±20	PASS
		Ant2	5250	0.00000	±20	PASS
		Ant1	5570	0.00000	±20	PASS
		Ant2	5570	0.00000	±20	PASS
LTV	11A-CDD	Ant1	5180	-3.26861	±20	PASS
		Ant2	5180	-3.26861	±20	PASS
		Ant1	5500	-3.19480	±20	PASS
		Ant2	5500	-3.19480	±20	PASS
	11N20MIMO	Ant1	5180	-7.44536	±20	PASS
		Ant2	5180	-7.44536	±20	PASS
		Ant1	5500	-7.30308	±20	PASS
		Ant2	5500	-7.30308	±20	PASS
	11N40MIMO	Ant1	5190	-7.51054	±20	PASS
		Ant2	5190	-7.51054	±20	PASS
		Ant1	5510	-7.36473	±20	PASS
		Ant2	5510	-7.36473	±20	PASS
	11AC20MIMO	Ant1	5180	-2.45135	±20	PASS
		Ant2	5180	-2.45135	±20	PASS
		Ant1	5500	-2.30873	±20	PASS
		Ant2	5500	-2.30873	±20	PASS
	11AC40MIMO	Ant1	5190	-3.70713	±20	PASS
		Ant2	5190	-3.70713	±20	PASS
		Ant1	5510	-3.60799	±20	PASS
		Ant2	5510	-3.60799	±20	PASS
	11AC80MIMO	Ant1	5210	0.00000	±20	PASS
		Ant2	5210	0.00000	±20	PASS
		Ant1	5530	0.00000	±20	PASS
		Ant2	5530	0.00000	±20	PASS
	11AC160MIMO	Ant1	5250	0.00000	±20	PASS
		Ant2	5250	0.00000	±20	PASS
		Ant1	5570	0.00000	±20	PASS
		Ant2	5570	0.00000	±20	PASS
	11AX20MIMO	Ant1	5180	0.00000	±20	PASS
		Ant2	5180	-7.70713	±20	PASS
		Ant1	5500	7.25953	±20	PASS
		Ant2	5500	0.00000	±20	PASS
	11AX40MIMO	Ant1	5190	0.00000	±20	PASS
		Ant2	5190	-7.35509	±20	PASS
		Ant1	5510	0.00000	±20	PASS
		Ant2	5510	0.00000	±20	PASS
	11AX80MIMO	Ant1	5210	0.00000	±20	PASS
		Ant2	5210	0.00000	±20	PASS

		Ant1	5530	0.00000	±20	PASS
		Ant2	5530	0.00000	±20	PASS
	11AX160MIMO	Ant1	5250	0.00000	±20	PASS
		Ant2	5250	-7.70713	±20	PASS
		Ant1	5570	7.25953	±20	PASS
		Ant2	5570	0.00000	±20	PASS
HTNV	11A-CDD	Ant1	5180	-3.46865	±20	PASS
		Ant2	5180	-3.46865	±20	PASS
		Ant1	5500	-3.26684	±20	PASS
		Ant2	5500	-3.26684	±20	PASS
	11N20MIMO	Ant1	5180	-7.16846	±20	PASS
		Ant2	5180	-7.16846	±20	PASS
		Ant1	5500	-7.04230	±20	PASS
		Ant2	5500	-7.04230	±20	PASS
	11N40MIMO	Ant1	5190	-3.16428	±20	PASS
		Ant2	5190	-3.16428	±20	PASS
		Ant1	5510	-3.03859	±20	PASS
		Ant2	5510	-3.03859	±20	PASS
	11AC20MIMO	Ant1	5180	3.56865	±20	PASS
		Ant2	5180	3.56865	±20	PASS
		Ant1	5500	3.36102	±20	PASS
		Ant2	5500	3.36102	±20	PASS
	11AC40MIMO	Ant1	5190	3.56177	±20	PASS
		Ant2	5190	3.56177	±20	PASS
		Ant1	5510	3.35492	±20	PASS
		Ant2	5510	3.35492	±20	PASS
	11AC80MIMO	Ant1	5210	0.00000	±20	PASS
		Ant2	5210	0.00000	±20	PASS
		Ant1	5530	0.00000	±20	PASS
		Ant2	5530	0.00000	±20	PASS
	11AC160MIMO	Ant1	5250	0.00000	±20	PASS
		Ant2	5250	0.00000	±20	PASS
		Ant1	5570	0.00000	±20	PASS
		Ant2	5570	0.00000	±20	PASS
	11AX20MIMO	Ant1	5180	2.55868	±20	PASS
		Ant2	5180	2.55868	±20	PASS
		Ant1	5500	2.40981	±20	PASS
		Ant2	5500	2.40981	±20	PASS
	11AX40MIMO	Ant1	5190	2.55375	±20	PASS
		Ant2	5190	2.55375	±20	PASS
		Ant1	5510	2.40544	±20	PASS
		Ant2	5510	2.40544	±20	PASS
	11AX80MIMO	Ant1	5210	0.00000	±20	PASS
		Ant2	5210	0.00000	±20	PASS

		Ant1	5530	0.00000	±20	PASS
		Ant2	5530	0.00000	±20	PASS
	11AX160MIMO	Ant1	5250	0.00000	±20	PASS
		Ant2	5250	0.00000	±20	PASS
		Ant1	5570	0.00000	±20	PASS
		Ant2	5570	0.00000	±20	PASS

3.2 Nominal Channel Bandwidth and Occupied Channel Bandwidth (Refer to clause 4.2.2)

3.2.1 Limit

Nominal Channel Bandwidth and Occupied Channel Bandwidth Limit	
The Nominal Channel Bandwidth for a single Operating Channel shall be 20 MHz. Alternatively, equipment may implement a lower Nominal Channel Bandwidth with a minimum of 5 MHz, providing they still comply with the Nominal Centre Frequencies. The Occupied Channel Bandwidth shall be between 80 % and 100 % of the declared Nominal Channel Bandwidth. During an established communication, the device is allowed to operate temporarily with an Occupied Channel Bandwidth below 80% of its Nominal Channel Bandwidth with a minimum of 2 MHz.	
Nominal Channel Bandwidth (MHz)	Occupied Channel Bandwidth (MHz)
20	16 – 20
40	32 – 40
80	64 – 80
160	128 – 160

3.2.2 Test peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Record PC	Lenovo	M4000q	N/A

3.2.3 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ● : Test ○ : No Test	

a) The EUT shall be connected to spectrum analyzer and the settings just as follow:

Centre Frequency	The centre frequency of the channel under test
Resolution Bandwidth	100 kHz
Video Bandwidth	300 kHz
Frequency Span	2 × Nominal Bandwidth (e.g. 40 MHz for a 20 MHz channel)
Sweep time	> 1 s; for larger Nominal Bandwidths, the sweep time may be increased until a value where the sweep time has no impact on the RMS value of the signal
Detector Mode	RMS
Trace Mode:	Max Hold

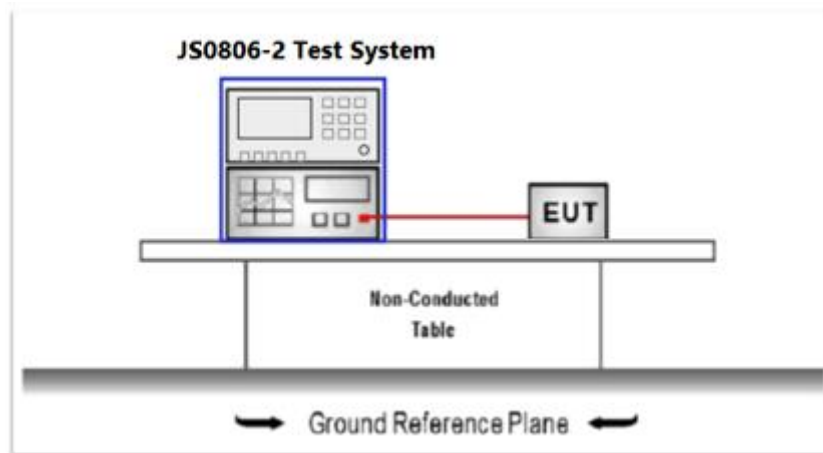
b) Wait for the trace to stabilize.

c) Make sure that the power envelope is sufficiently above the noise floor of the analyzer to avoid the noise signals left and right from the power envelope being taken into account by this measurement.

d) Use the 99 % bandwidth function of the spectrum analyzer to measure the Occupied Channel Bandwidth of the EUT. This value shall be recorded.

e) The measurement described in step b to step d above shall be repeated in case of simultaneous transmissions in non-adjacent channels.

3.2.4 Test Configuration



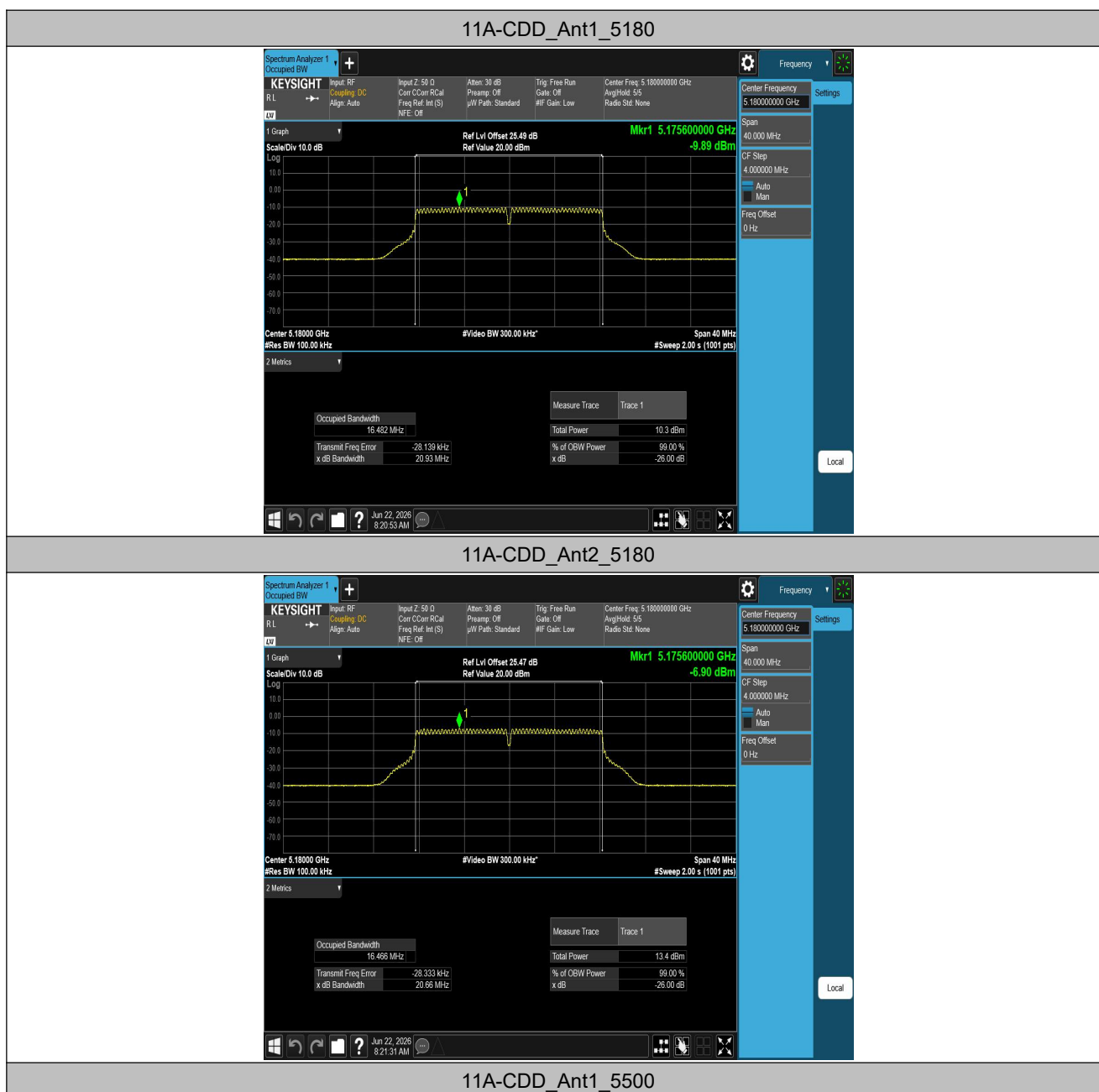
3.2.5 Test Result of Nominal Channel Bandwidth and Occupied Channel Bandwidth

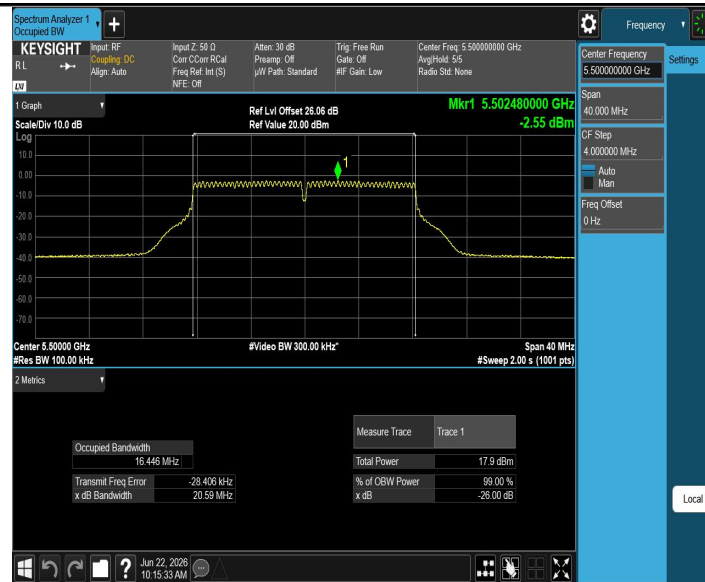
3.2.5.1 Test Result

TestMode	Antenna	Freq(MHz)	OCB[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant1	5180	16.482	20	PASS
	Ant2	5180	16.466	20	PASS
	Ant1	5500	16.446	16 to 20	PASS
	Ant2	5500	16.446	16 to 20	PASS
11N20MIMO	Ant1	5180	17.702	20	PASS
	Ant2	5180	17.670	20	PASS
	Ant1	5500	17.666	16 to 20	PASS
	Ant2	5500	17.649	16 to 20	PASS
11N40MIMO	Ant1	5190	36.294	40	PASS
	Ant2	5190	36.244	40	PASS
	Ant1	5510	36.227	32 to 40	PASS
	Ant2	5510	36.223	32 to 40	PASS
11AC20MIMO	Ant1	5180	17.707	20	PASS
	Ant2	5180	17.676	20	PASS
	Ant1	5500	17.667	16 to 20	PASS
	Ant2	5500	17.650	16 to 20	PASS
11AC40MIMO	Ant1	5190	36.306	40	PASS
	Ant2	5190	36.243	40	PASS
	Ant1	5510	36.248	32 to 40	PASS
	Ant2	5510	36.223	32 to 40	PASS
11AC80MIMO	Ant1	5210	76.052	64 to 80	PASS
	Ant2	5210	75.872	64 to 80	PASS
	Ant1	5530	75.767	64 to 80	PASS
	Ant2	5530	75.757	64 to 80	PASS
11AC160MIMO	Ant1	5250	156.42	128 to 160	PASS
	Ant2	5250	155.41	128 to 160	PASS
	Ant1	5570	154.97	128 to 160	PASS
	Ant2	5570	154.84	128 to 160	PASS
11AX20MIMO	Ant1	5180	18.971	20	PASS
	Ant2	5180	18.953	20	PASS
	Ant1	5500	18.942	16 to 20	PASS
	Ant2	5500	18.945	16 to 20	PASS
11AX40MIMO	Ant1	5190	37.659	40	PASS
	Ant2	5190	37.588	40	PASS
	Ant1	5510	37.571	32 to 40	PASS
	Ant2	5510	37.531	32 to 40	PASS
11AX80MIMO	Ant1	5210	77.641	64 to 80	PASS
	Ant2	5210	77.252	64 to 80	PASS

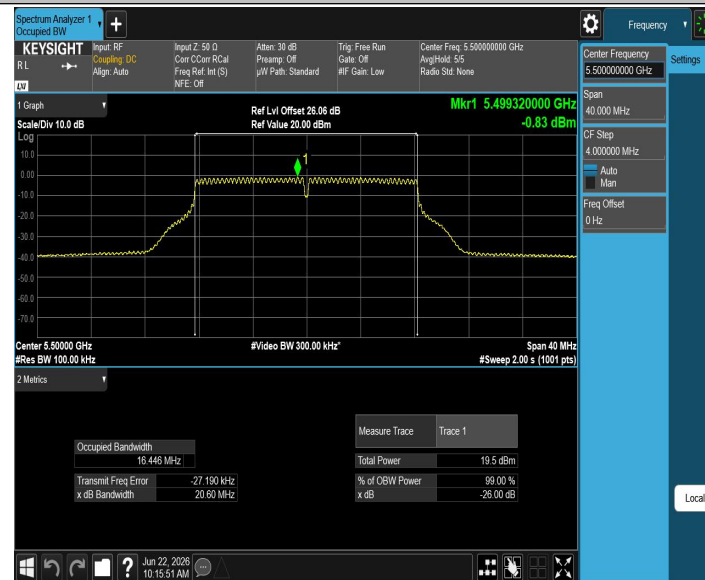
11AX160MIMO	Ant1	5530	77.042	64 to 80	PASS
	Ant2	5530	76.955	64 to 80	PASS
	Ant1	5250	155.43	128 to 160	PASS
	Ant2	5250	155.31	128 to 160	PASS
	Ant1	5570	155.75	128 to 160	PASS
	Ant2	5570	155.49	128 to 160	PASS

3.2.5.2 Test Graphs





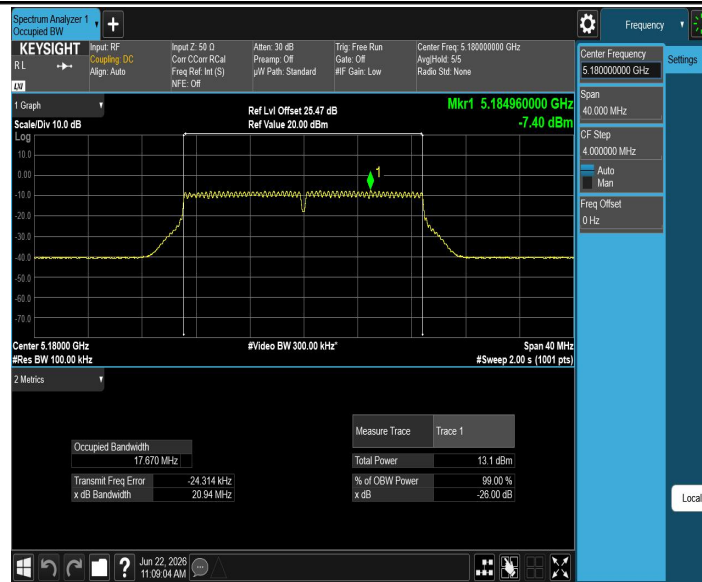
11A-CDD_Ant2_5500



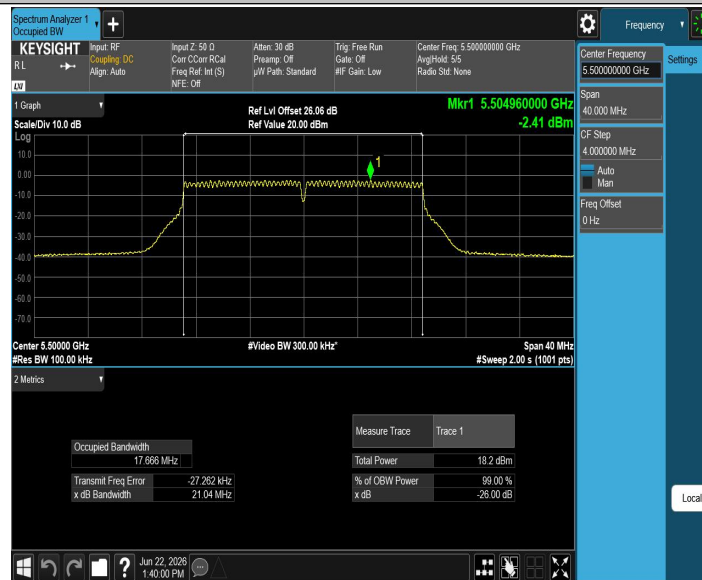
11N20MIMO_Ant1_5180



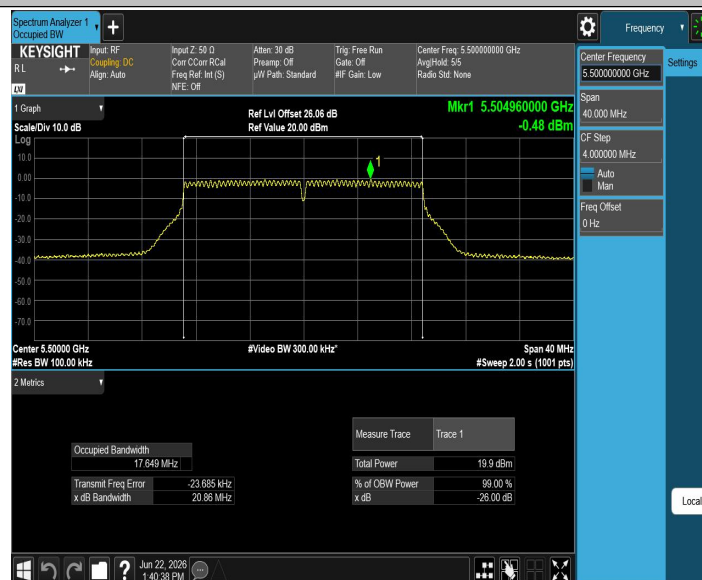
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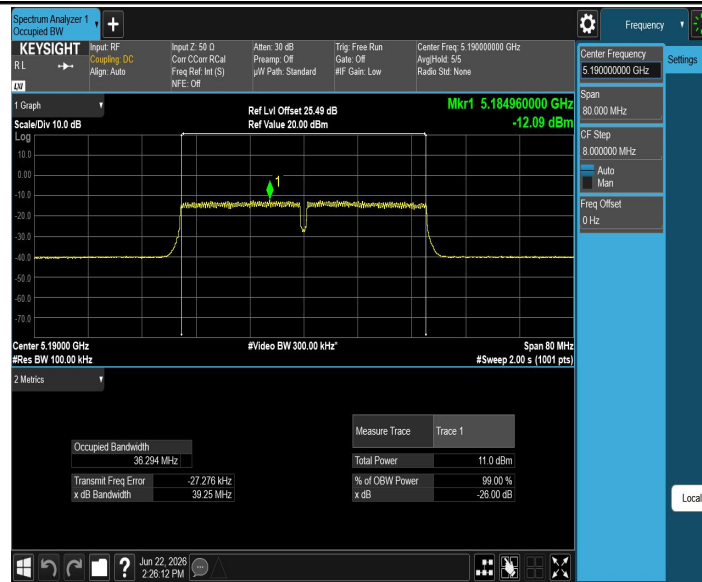
11N20MIMO_Ant1_5500



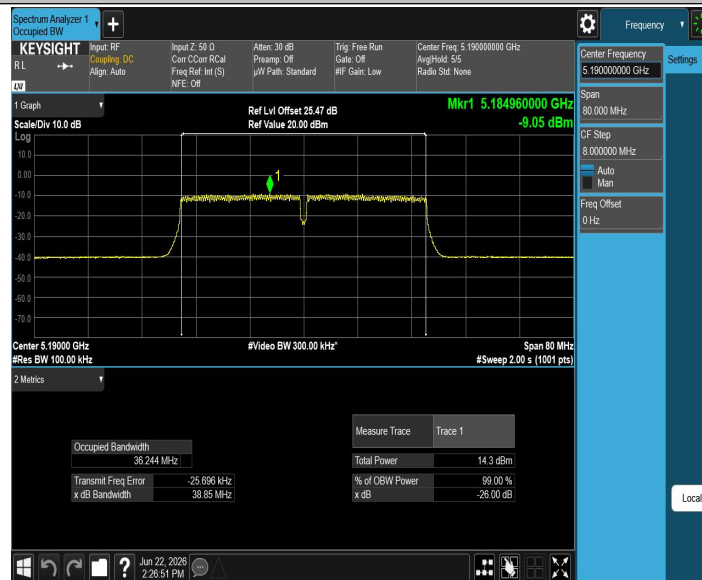
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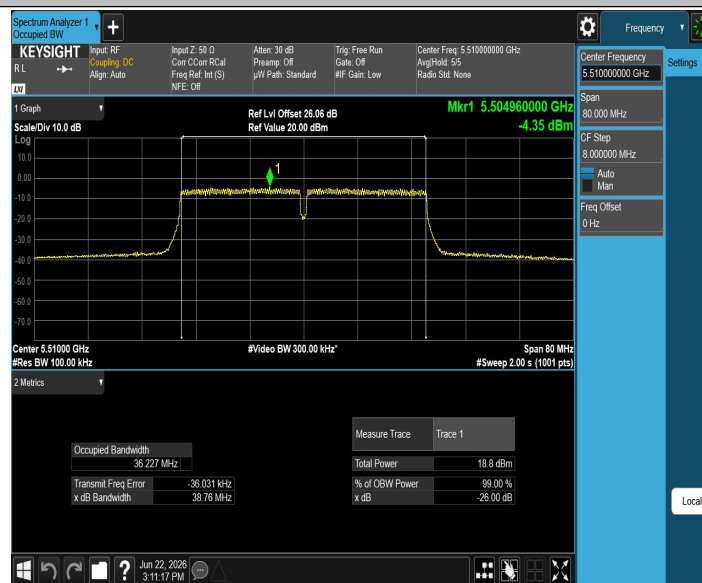
11N40MIMO_Ant1_5190



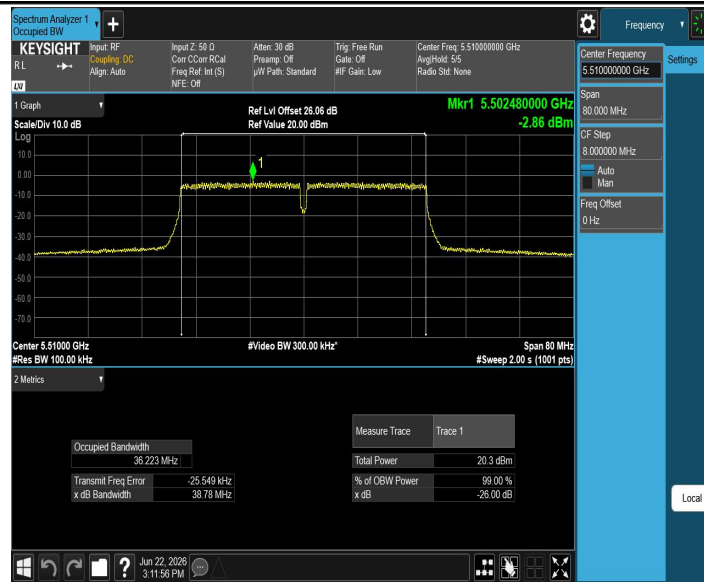
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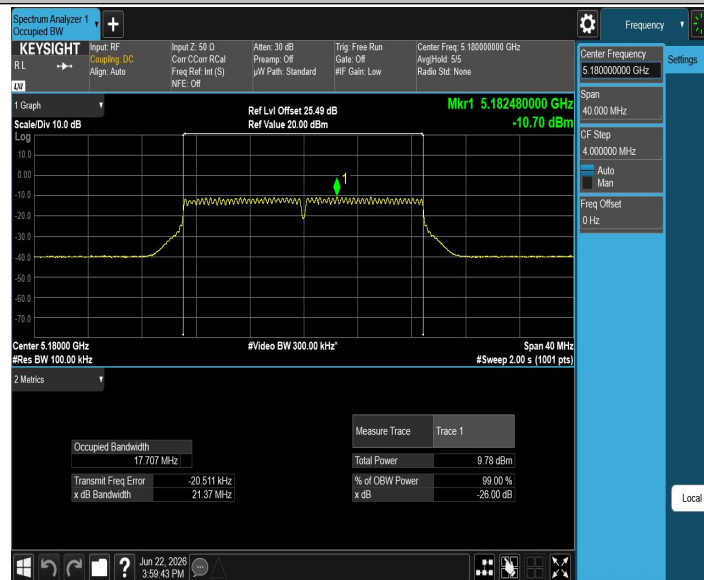
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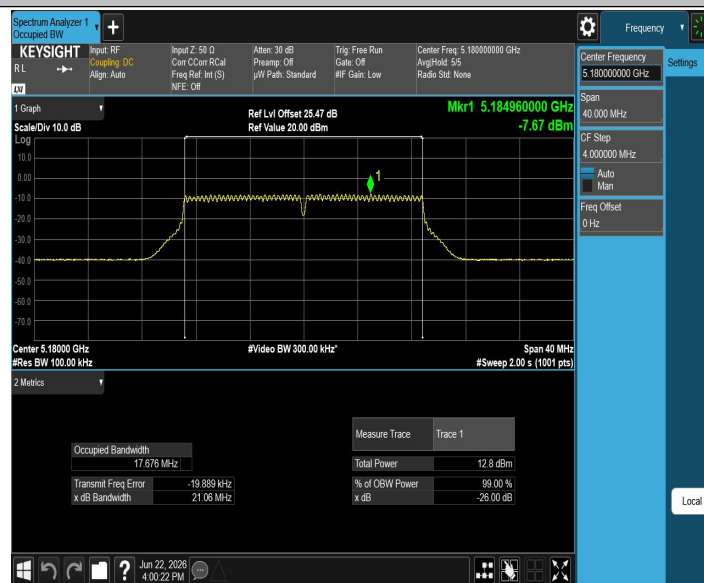
11N40MIMO_Ant2_5510



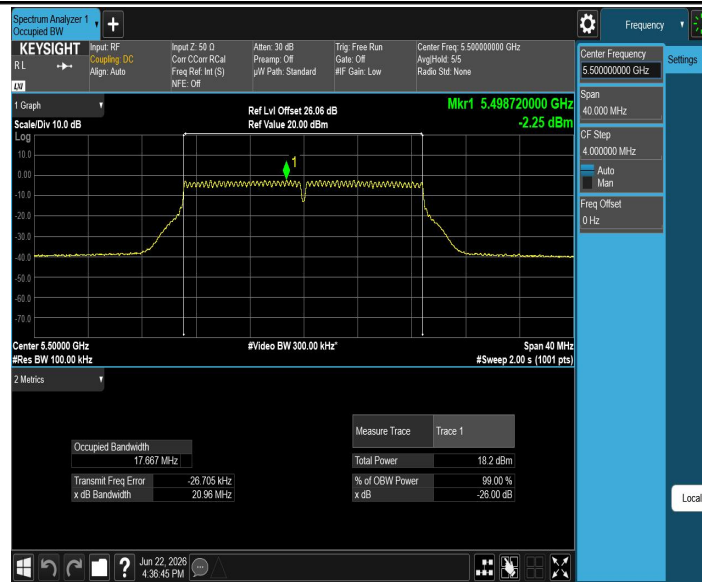
11AC20MIMO_Ant1_5180



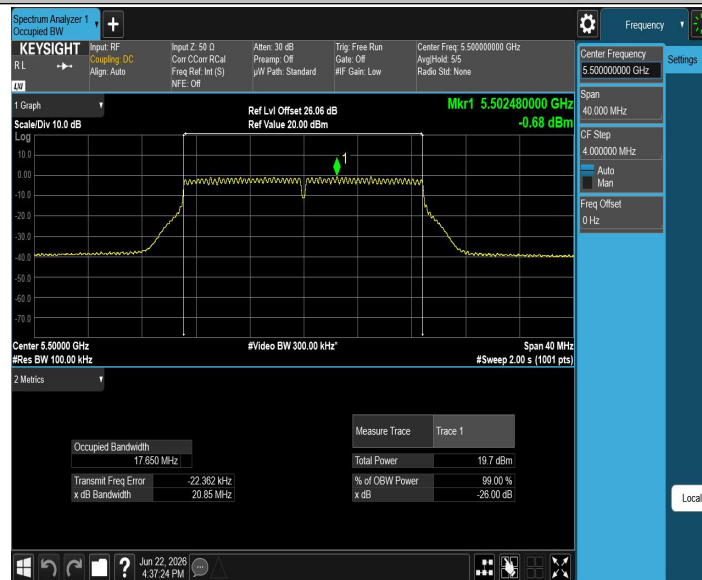
11AC20MIMO_Ant2_5180



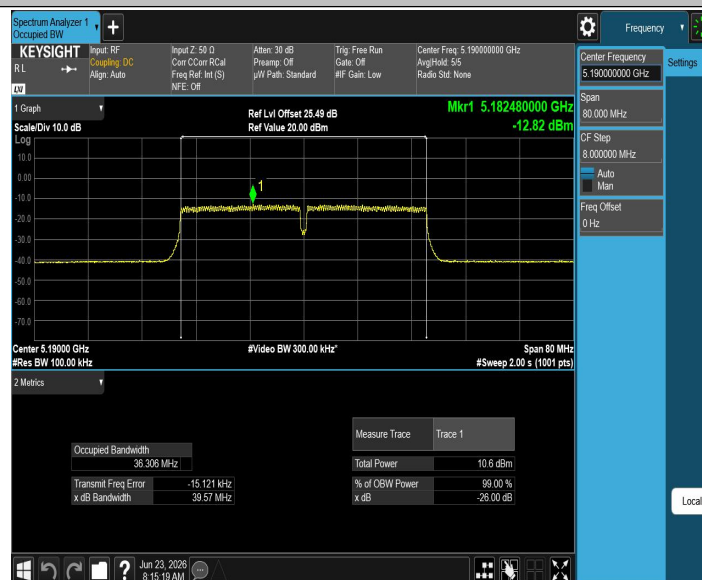
11AC20MIMO_Ant1_5500



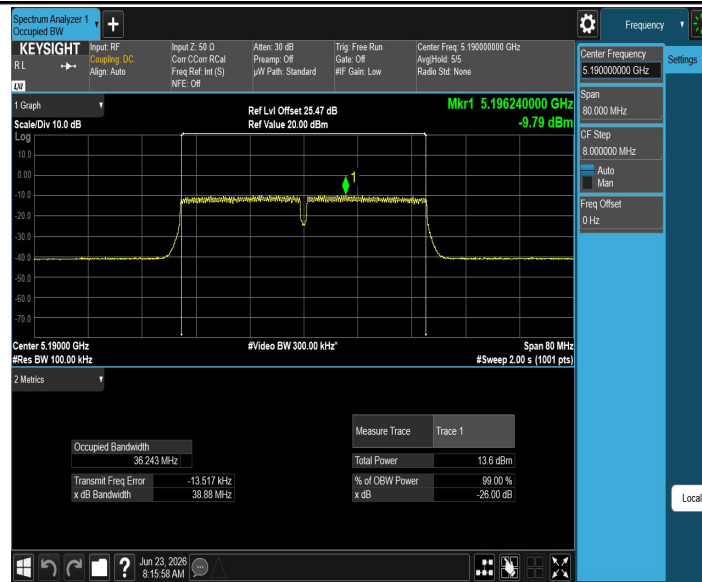
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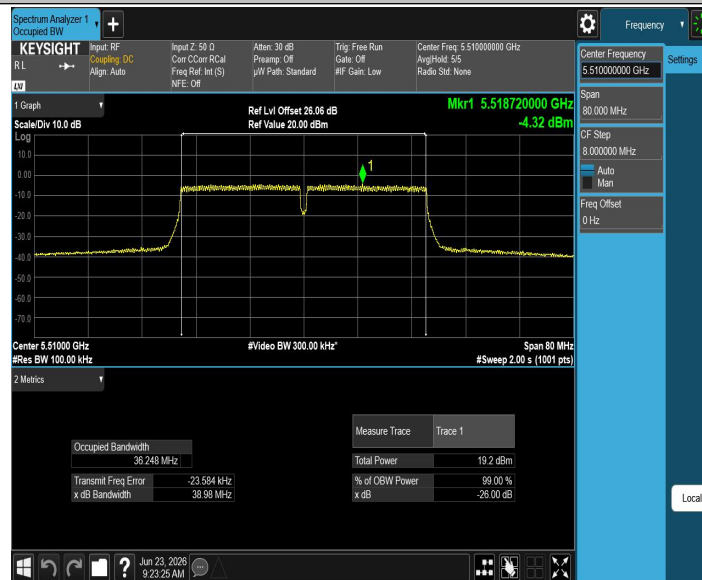
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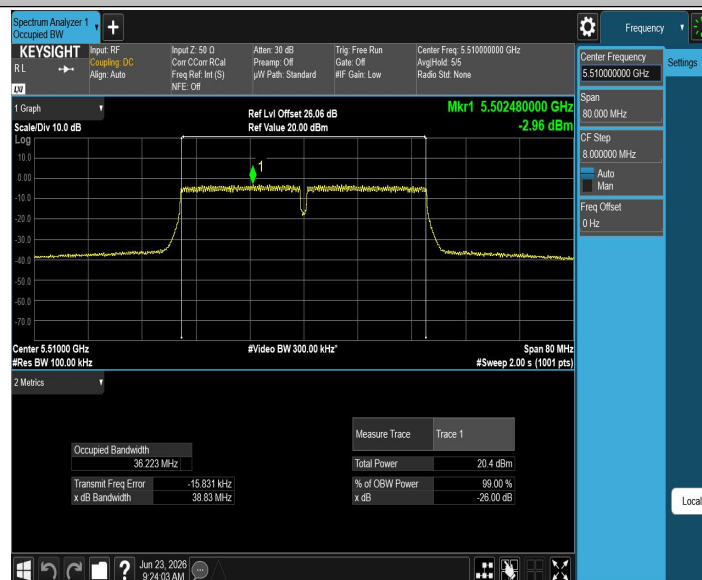
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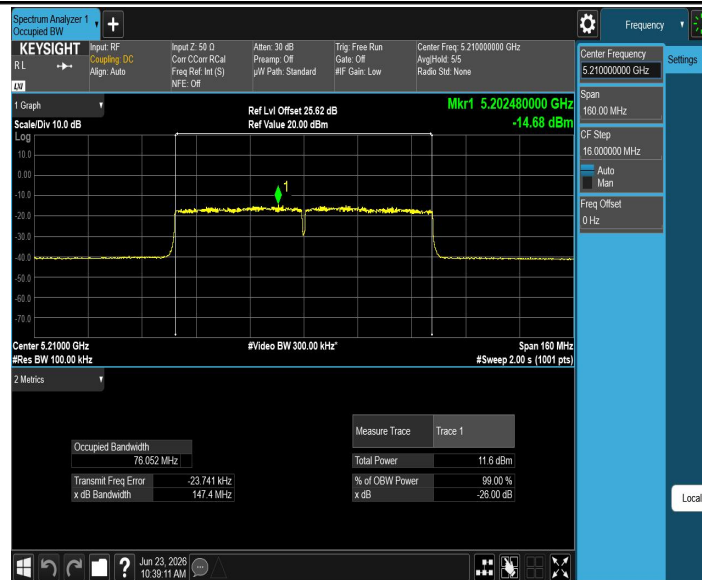
11AC40MIMO_Ant1_5510



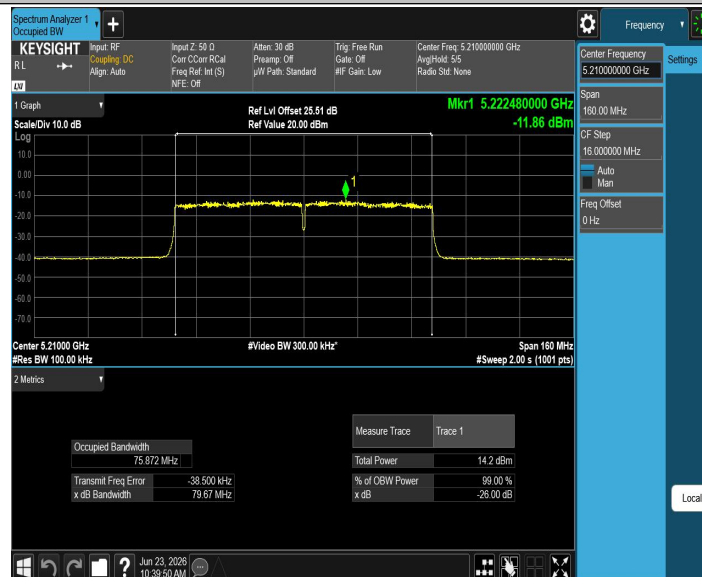
11AC40MIMO_Ant2_5510



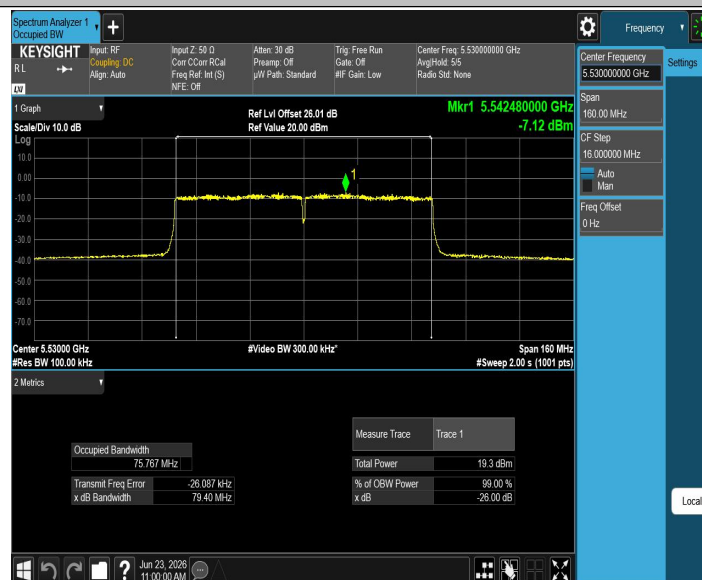
11AC80MIMO_Ant1_5210



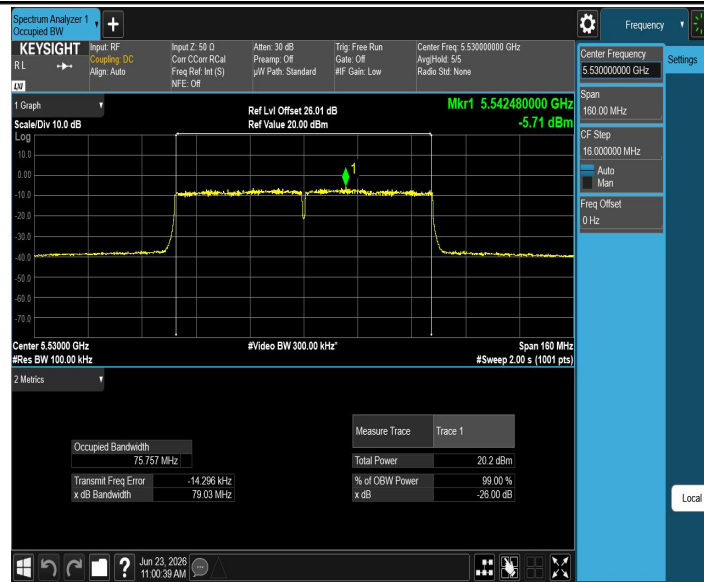
11AC80MIMO_Ant2_5210



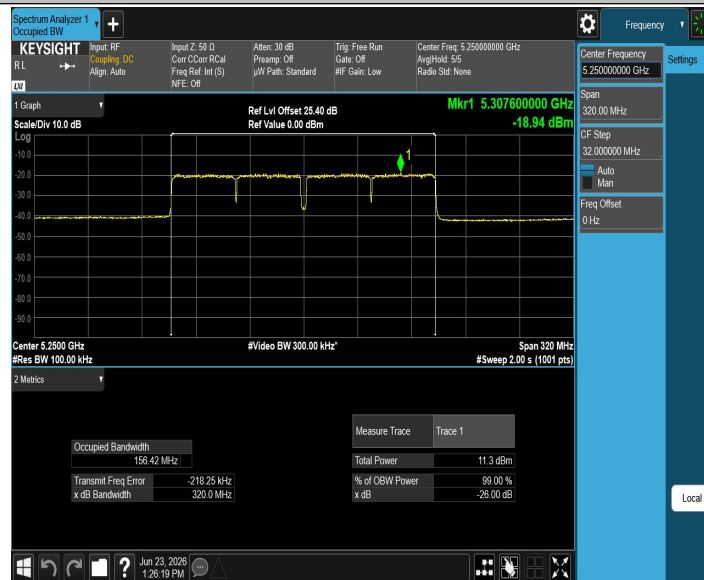
11AC80MIMO_Ant1_5530



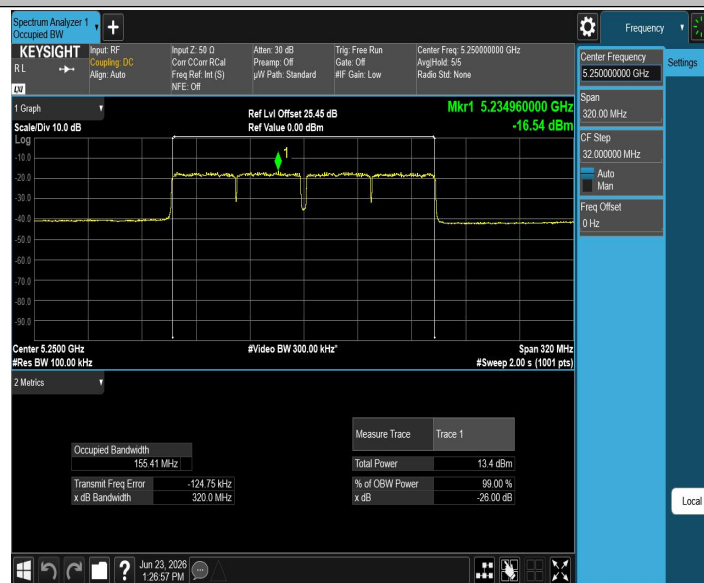
11AC80MIMO_Ant2_5530



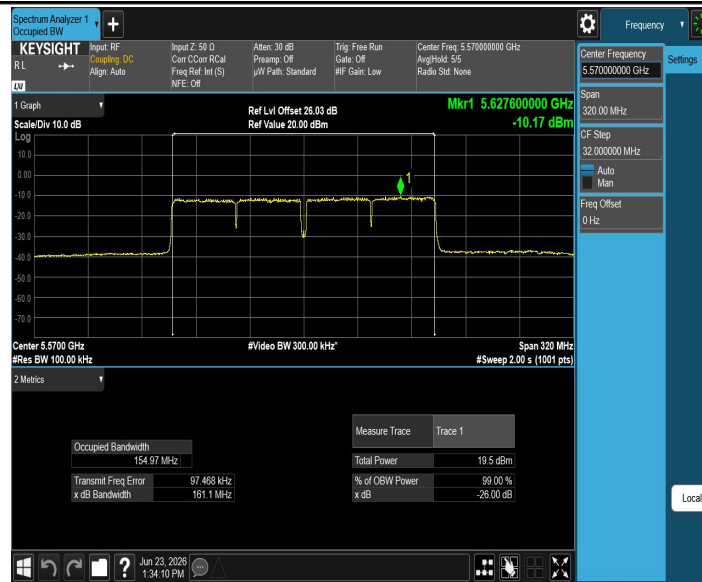
11AC160MIMO_Ant1_5250



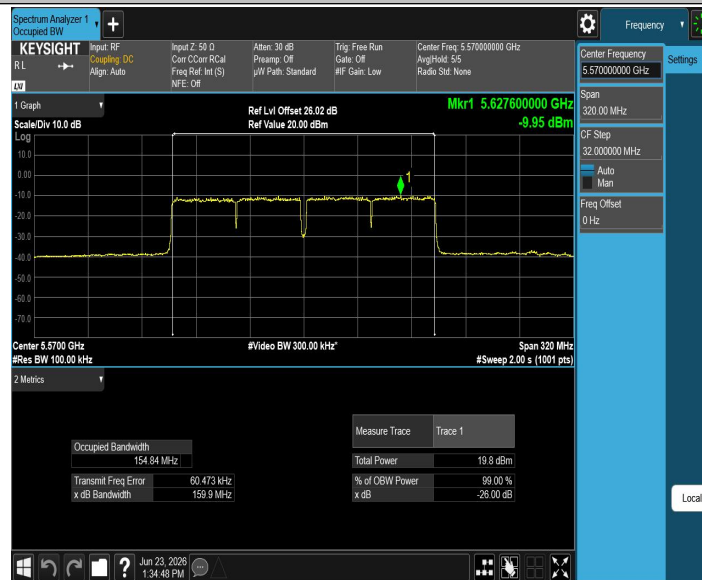
11AC160MIMO_Ant2_5250



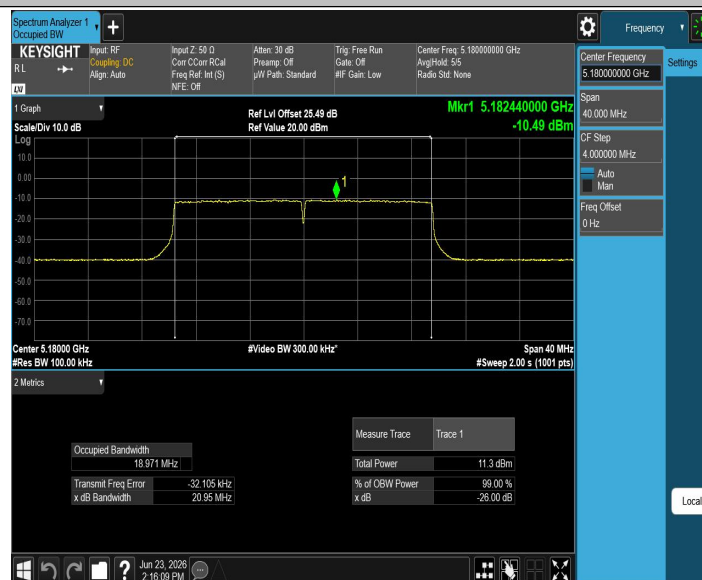
11AC160MIMO_Ant1_5570



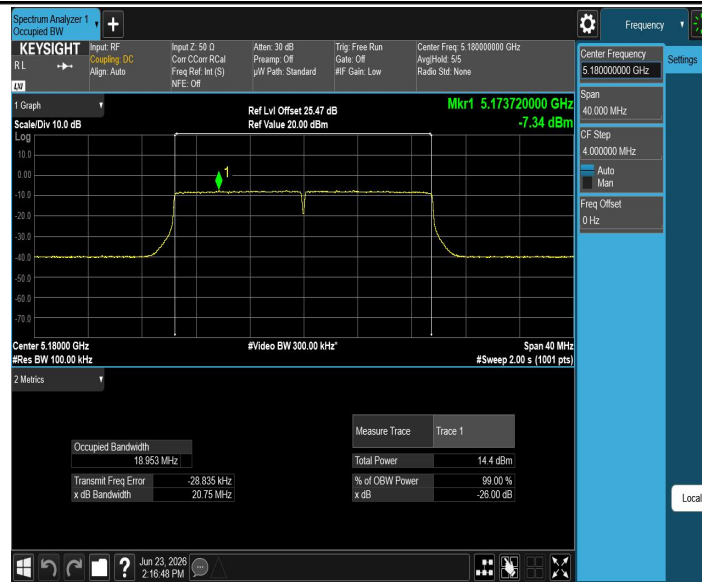
11AC160MIMO_Ant2_5570



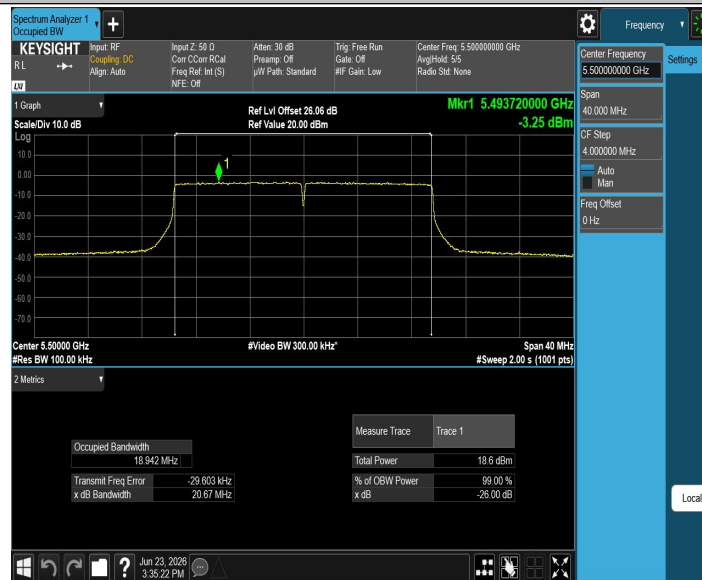
11AX20MIMO_Ant1_5180



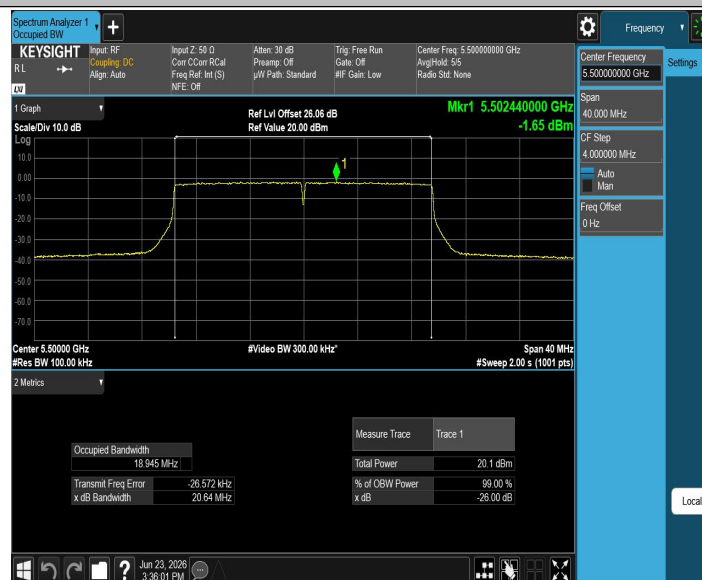
11AX20MIMO_Ant2_5180



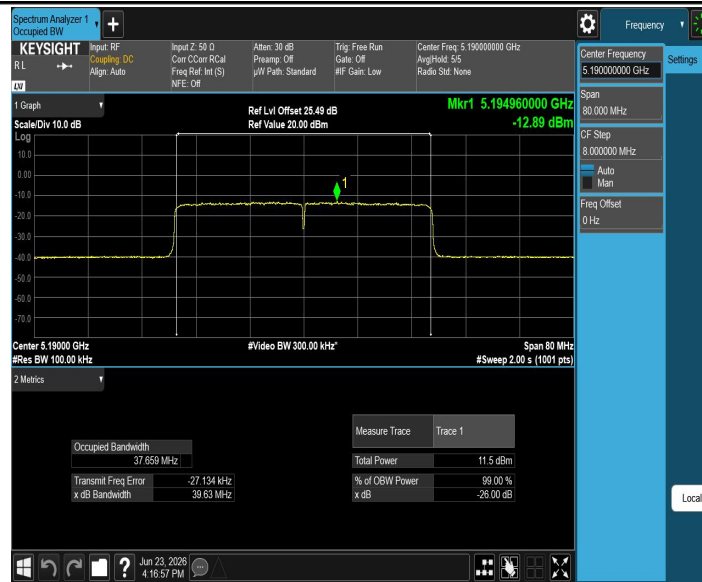
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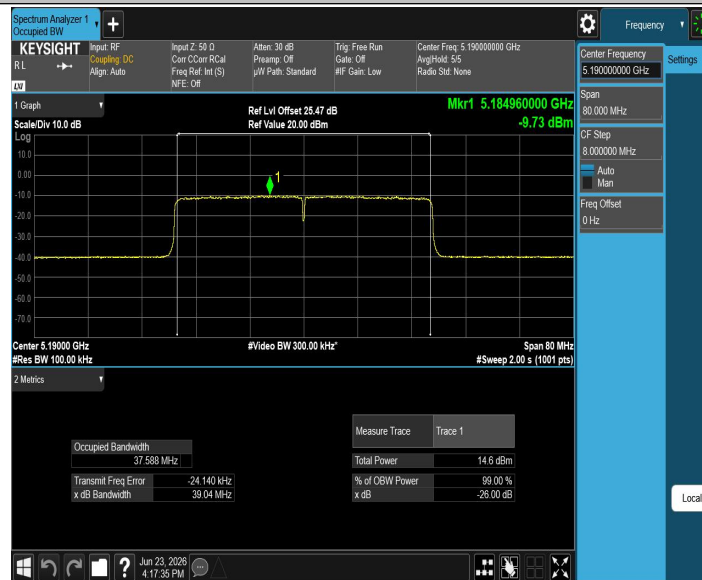
11AX20MIMO_Ant2_5500



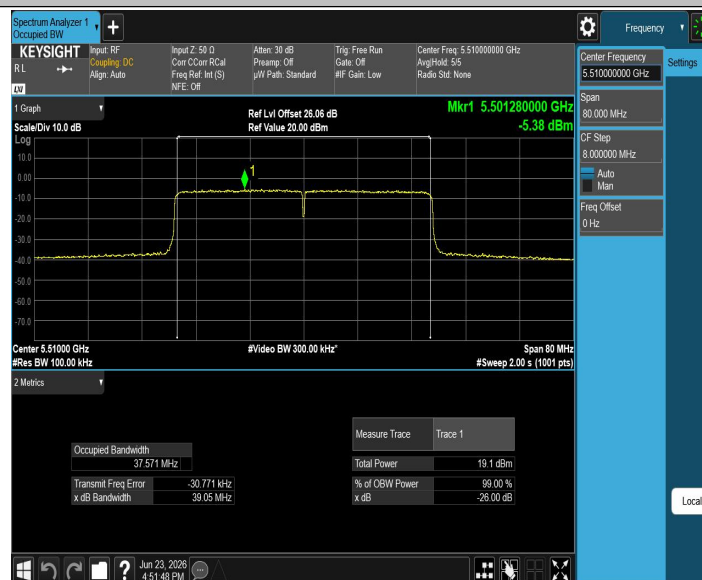
11AX40MIMO_Ant1_5190



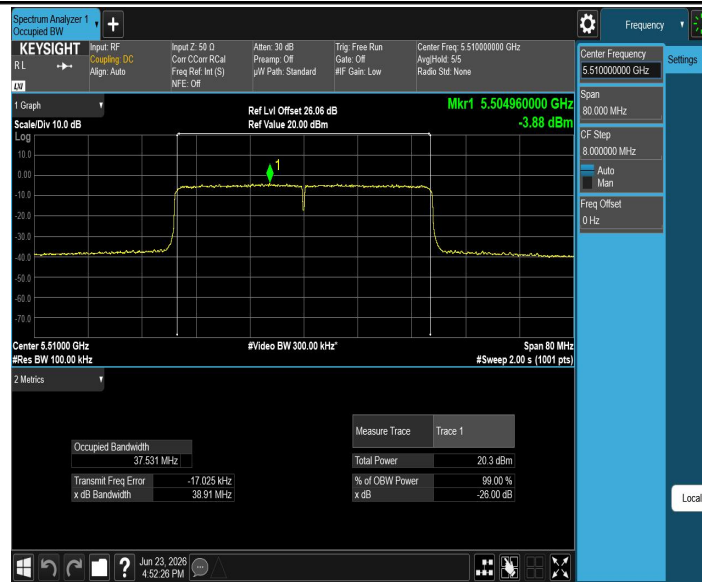
11AX40MIMO_Ant2_5190



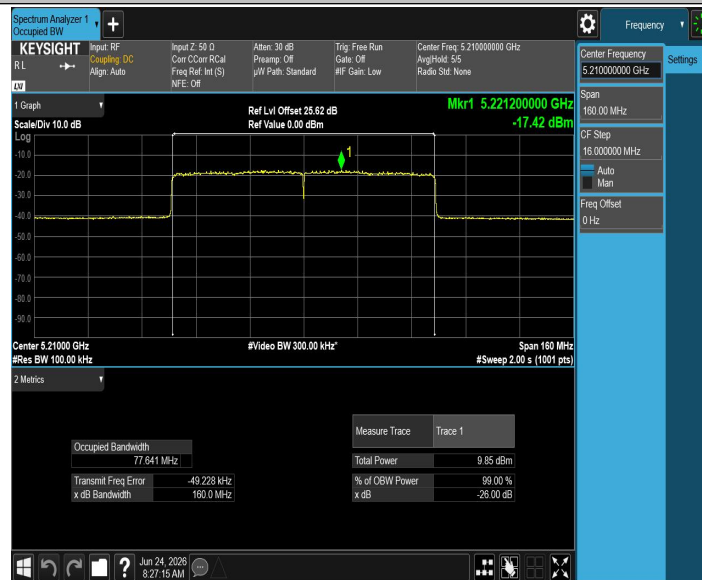
11AX40MIMO_Ant1_5510



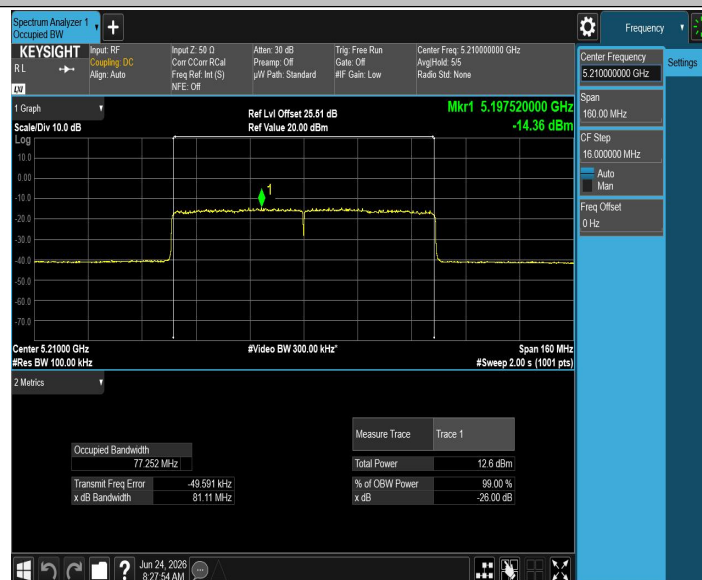
11AX40MIMO_Ant2_5510



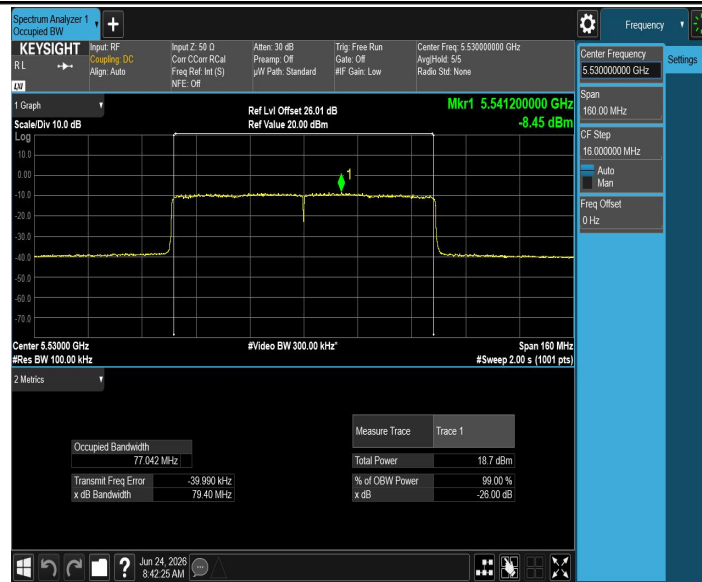
11AX80MIMO_Ant1_5210



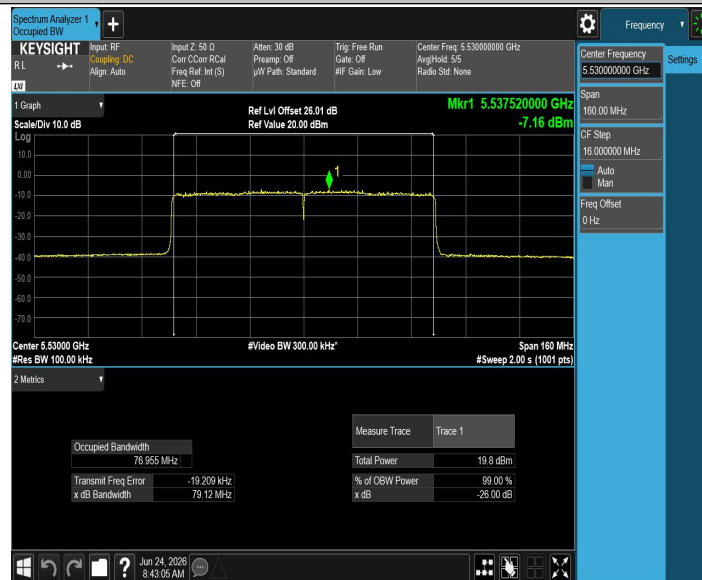
11AX80MIMO_Ant2_5210



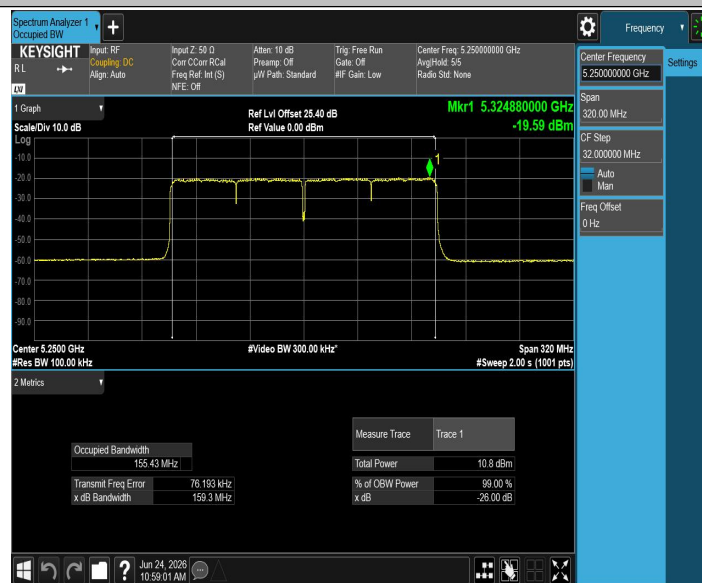
11AX80MIMO_Ant1_5530



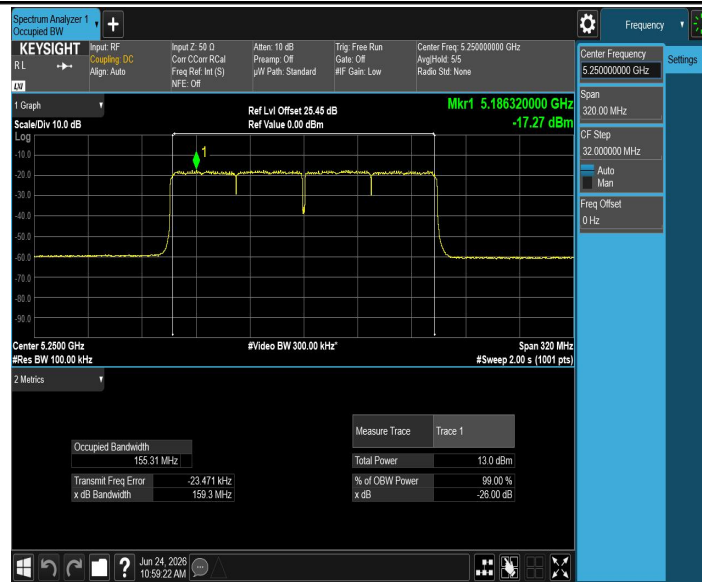
11AX80MIMO_Ant2_5530



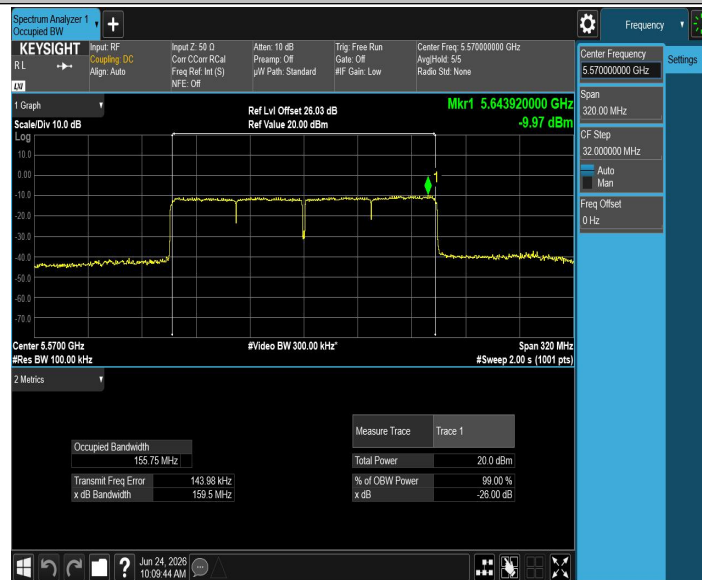
11AX160MIMO_Ant1_5250



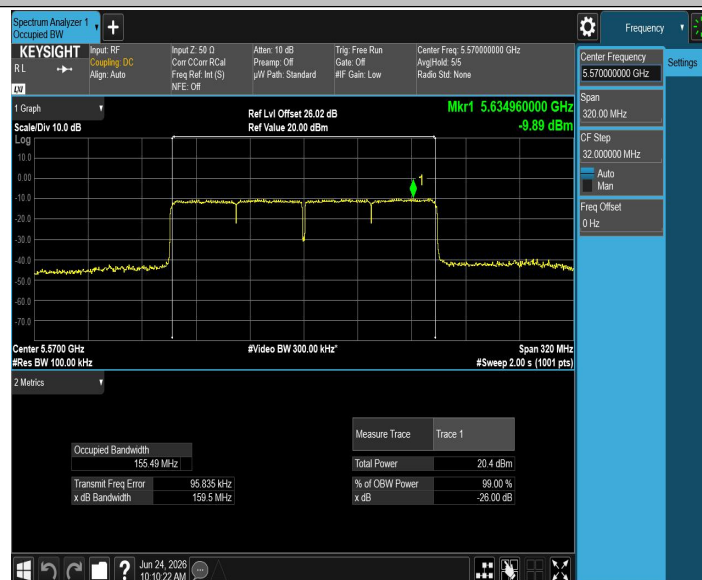
11AX160MIMO_Ant2_5250



11AX160MIMO_Ant1_5570



11AX160MIMO_Ant2_5570



3.3 RF Output Power (Refer to clause 4.2.3)

3.3.1 Limit

Frequency Range (MHz)	Mean e.i.r.p. Limit for P_H (dBm)
	with TPC
5150-5350	23
5470-5725	30
Note: TPC is not required for channels whose nominal bandwidth falls completely within the band 5150 MHz to 5250 MHz.	
Frequency Range (MHz)	Mean e.i.r.p. Limit for P_L (dBm)
5250-5350	17
5470-5725	24

3.3.2 Test Peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Record PC	Lenovo	M4000q	N/A

3.3.3 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Environmental conditions	
☐ Normal	☒ Normal and Extreme
Note: ● : Test ○ : No Test	

Radiated Measurement:

EIRP of Non-BF Mode:

- The EUT is placed on the top of the turntable which the same height with the horn antenna in fully-anechoic chamber.
- The test shall be made in continuous TX mode (e.g. use the Mtool to let the EUT work on 11AC20 CH36). The turntable is rotated by 360 degrees to determine the highest P_1 , record the highest power and the angle.
- Change the polarization of the horn antenna (from vertical to horizontal or from horizontal to vertical), repeat step b, determine the highest P_2 , record the highest power and the angle.
- Compare the P_1 and P_2 , chose the highest one as the EIRP.
- The spectrum analyzer settings as following:

Measurement mode	Channel Power
Centre Frequency	The centre frequency of the tested channel
RBW	1 MHz
VBW	3 MHz
Frequency Span	Sufficient to see the whole envelope
Sweep time	100ms

Sweep Points	≥ 1001
Detector	RMS

EIRP of TXBF Mode:

- f) The EUT is placed on the top of the turntable which the same height with the horn antenna in fully-anechoic chamber.
- g) The companion station is place behind the horn antenna, see below picture.
- h) Choose the mode, channel, bandwidth via UI or commands. Enable the TXBF function by the commands. Establish a traffic load from EUT to station with IxChariot or iperf. The turntable is rotated by 360 degrees to determine the highest P_3 , record the highest power and the angle.
- i) Change the polarization of the horn antenna (from vertical to horizontal or from horizontal to vertical), repeat step h, determine the highest P_4 , record the highest power and the angle.
- j) Compare the P_3 and P_4 , chose the highest one as the EIRP.
- k) The spectrum analyzer settings as following:

Measurement mode	Channel Power
Centre Frequency	The centre frequency of the tested channel
RBW	1 MHz
VBW	3 MHz
Frequency Span	Sufficient to see the whole envelope
Sweep time	100ms
Sweep Points	≥ 1001
Detector	RMS

Conducted Measurement:

The following table is the specification of the Tonscend JS0806-2 power sensor

Power Meter Parameter	Spec.
Frequency range	50 MHz to 18 GHz
Dynamic power range	-35 dBm to 20 dBm (≥ 500 MHz)
Rise/fall time	≤ 13 ns
Maximum sampling rate	80 Msamples/sec, continuous sampling
Video bandwidth	≥ 30 MHz
Single-shot bandwidth	≥ 30 MHz
Minimum pulse width	50 ns
average power measurement accuracy	$\leq \pm 0.2$ dB or $\pm 4.5\%$

The following table is the specification of the Tonscend JS0806-2 digitizer

Power Meter Parameter	Spec.
Resolution	14 bits
Number of channels	4 differential input channels (software selectable/channel)
Maximum sampling rate	2 MSa/s

Programmable bipolar input range	$\pm 10 \text{ V}, \pm 5 \text{ V}, \pm 2.5 \text{ V}, \pm 1.25 \text{ V}$
Programmable unipolar input range	0 to 10 V, 0 to 5 V, 0 to 2.5 V, 0 to 1.25 V
Input coupling	DC
Input impedance	1 G Ω /100 pF
Operational common mode voltage range	$\pm 8.0 \text{ V}$ maximum
Overvoltage range	Power-on: Continuous $\pm 30 \text{ V}$, Power-off: Continuous $\pm 15 \text{ V}$
Trigger sources	External analog/digital trigger, SSI/star trigger 2
Trigger modes	Pre-trigger, delay-trigger, post-trigger, and middle-trigger
FIFO buffer size	Up to 8 MSa

a) Sample the transmit signal from the device using a fast power sensor suitable for 6 GHz. Save the raw samples. The samples shall represent the RMS power of the signal. Settings as following: Sample speed: $\geq 10^6$ Samples/s.

Measurement duration: Sufficient to capture a minimum of 10 transmitter bursts.

b) Connect a power sensor to each transmit port for a synchronous measurement on all transmit ports. Trigger the power sensors so that they start sampling at the same time. Make sure the time difference between the samples of all sensors is less than 500 ns. For each individual sampling point (time domain), sum the coincident power samples of all ports and store them. Use these summed samples in the following steps.

c) Find the start and stop times of each burst in the stored measurement samples. The start and stop times are defined as the points where the power is at least 30 dB below the highest value of the stored samples in step b. In case of insufficient dynamic range, the value of 30 dB may need to be reduced appropriately.

d) Between the start and stop times of each individual burst, calculate the RMS (mean) power over the burst (P_{burst}) using the formula below:

$$P_{\text{burst}} = \frac{1}{k} \sum_{n=1}^k P_{\text{sample}}(n)$$

with 'k' being the total number of samples and 'n' the actual sample number

The highest of all P_{burst} values is the value A in dBm.

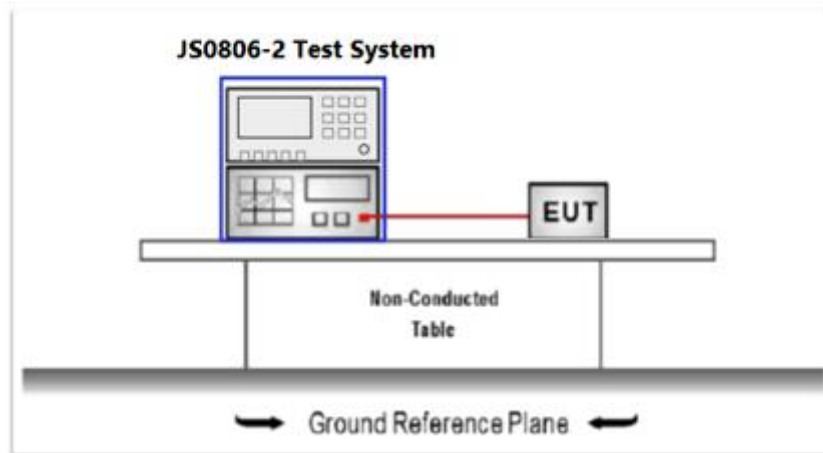
e) The RF output power (e.i.r.p) at the highest power level PH shall be calculated from the above measured power output A (in dBm), the stated antenna assembly gain G in dBi and if applicable the beamforming gain Y in dB, according to the formula below. If more than one antenna assembly is intended for this power setting, the gain of the antenna assembly with the highest gain shall be used:

$$P_H = A + G + Y \text{ (dBm)}$$

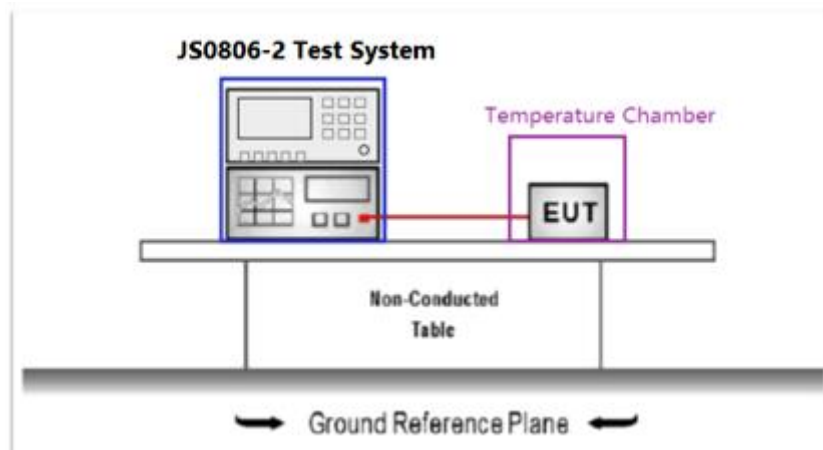
This value P_H shall be compared to the applicable limit contained in table 2 of clause 4.2.3.2.2 and shall be recorded in the report.

3.3.4 Test Configuration

Normal Conditions :



Extreme Conditions



3.3.5 Table of Parameters of Test Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

For Power setting value

Test Mode	accessMTool_REL_3_3_0_4							
	ALL ANT							
	Channel	Value	Channel	Value	Channel	Value	Channel	Value
11A-CDD	5180	60	5320	56	5500	84	5700	84
11N20MIMO	5180	60	5320	59	5500	84	5700	84
11N40MIMO	5190	64	5310	65	5510	88	5670	86
11AC20MIMO	5180	60	5320	56	5500	84	5700	84
11AC40MIMO	5190	64	5310	64	5510	88	5670	86
11AC80MIMO	5210	62	5290	62	5530	88	5610	85
11AC160MIMO	5250	61	-	-	5570	86	-	-
11AX20MIMO	5180	60	5320	56	5500	84	5700	84
11AX40MIMO	5190	64	5310	63	5510	88	5670	86
11AX80MIMO	5210	62	5290	62	5530	88	5610	85
11AX160MIMO	5250	61	-	-	5570	86	-	-

3.3.6 Test Result of RF Output Power

3.1.6.1 Test Result

Test Condition	Test Mode	Antenna	Freq(MHz)	TPC	Conducted power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
LTVN	11A-CDD	Ant1	5180	NA	13.5	94.93	0.23	13.73	3.33	17.06	23	PASS
		Ant2	5180	NA	16.04	94.93	0.23	16.27	3.33	19.6	23	PASS
		total	5180	NA	---	---	---	18.19	3.33	21.52	23	PASS
		Ant1	5240	NA	13.67	94.93	0.23	13.9	3.33	17.23	23	PASS
		Ant2	5240	NA	15.84	94.93	0.23	16.07	3.33	19.4	23	PASS
		total	5240	NA	---	---	---	18.13	3.33	21.46	23	PASS
		Ant1	5260	TPC_H	13.53	94.93	0.23	13.76	3.33	17.09	23	PASS
		Ant2	5260	TPC_H	15.59	94.93	0.23	15.82	3.33	19.15	23	PASS
		total	5260	TPC_H	---	---	---	17.92	3.33	21.25	23	PASS
		Ant1	5320	TPC_H	13.2	94.93	0.23	13.43	3.33	16.76	23	PASS
		Ant2	5320	TPC_H	14.73	94.93	0.23	14.96	3.33	18.29	23	PASS
		total	5320	TPC_H	---	---	---	17.27	3.33	20.6	23	PASS
		Ant1	5500	TPC_H	20.61	94.93	0.23	20.84	3.33	24.17	30	PASS
		Ant2	5500	TPC_H	21.82	94.93	0.23	22.05	3.33	25.38	30	PASS
		total	5500	TPC_H	---	---	---	24.5	3.33	27.83	30	PASS
		Ant1	5700	TPC_H	21.84	94.93	0.23	22.07	3.33	25.4	30	PASS
		Ant2	5700	TPC_H	22.43	94.93	0.23	22.66	3.33	25.99	30	PASS
		total	5700	TPC_H	---	---	---	25.39	3.33	28.72	30	PASS
		Ant1	5260	TPC_L	7.32	94.93	0.23	7.55	3.33	10.88	23	PASS
		Ant2	5260	TPC_L	9.48	94.93	0.23	9.71	3.33	13.04	23	PASS
		total	5260	TPC_L	---	---	---	17.92	3.33	15.10	23	PASS
		Ant1	5320	TPC_L	6.92	94.93	0.23	7.15	3.33	10.48	23	PASS
		Ant2	5320	TPC_L	8.69	94.93	0.23	8.92	3.33	12.25	23	PASS
		total	5320	TPC_L	---	---	---	17.27	3.33	14.46	23	PASS
		Ant1	5500	TPC_L	14.51	94.93	0.23	14.74	3.33	18.07	30	PASS
		Ant2	5500	TPC_L	15.71	94.93	0.23	15.94	3.33	19.27	30	PASS
		total	5500	TPC_L	---	---	---	24.5	3.33	21.72	30	PASS
		Ant1	5700	TPC_L	15.83	94.93	0.23	16.06	3.33	19.39	30	PASS
		Ant2	5700	TPC_L	16.27	94.93	0.23	16.50	3.33	19.83	30	PASS
		total	5700	TPC_L	---	---	---	25.39	3.33	22.63	30	PASS
	11N20MIMO	Ant1	5180	NA	12.92	95.05	0.22	13.14	3.33	16.47	23	PASS
		Ant2	5180	NA	15.84	95.05	0.22	16.06	3.33	19.39	23	PASS
		total	5180	NA	---	---	---	17.85	3.33	21.18	23	PASS
		Ant1	5240	NA	14.32	95.05	0.22	14.54	3.33	17.87	23	PASS
		Ant2	5240	NA	16.04	95.05	0.22	16.26	3.33	19.59	23	PASS
		total	5240	NA	---	---	---	18.49	3.33	21.82	23	PASS
		Ant1	5260	TPC_H	13.87	95.05	0.22	14.09	3.33	17.42	23	PASS

		Ant2	5260	TPC_H	15.93	95.05	0.22	16.15	3.33	19.48	23	PASS
		total	5260	TPC_H	---	---	---	18.25	3.33	21.58	23	PASS
		Ant1	5320	TPC_H	13.86	95.05	0.22	14.08	3.33	17.41	23	PASS
		Ant2	5320	TPC_H	14.96	95.05	0.22	15.18	3.33	18.51	23	PASS
		total	5320	TPC_H	---	---	---	17.68	3.33	21.01	23	PASS
		Ant1	5500	TPC_H	20.83	95.05	0.22	21.05	3.33	24.38	30	PASS
		Ant2	5500	TPC_H	22.05	95.05	0.22	22.27	3.33	25.6	30	PASS
		total	5500	TPC_H	---	---	---	24.71	3.33	28.04	30	PASS
		Ant1	5700	TPC_H	21.89	95.05	0.22	22.11	3.33	25.44	30	PASS
		Ant2	5700	TPC_H	22.12	95.05	0.22	22.34	3.33	25.67	30	PASS
		total	5700	TPC_H	---	---	---	25.24	3.33	28.57	30	PASS
		Ant1	5260	TPC_L	7.63	95.05	0.22	7.85	3.33	11.18	23	PASS
		Ant2	5260	TPC_L	9.80	95.05	0.22	10.02	3.33	13.35	23	PASS
		total	5260	TPC_L	---	---	---	18.25	3.33	15.41	23	PASS
		Ant1	5320	TPC_L	7.74	95.05	0.22	7.96	3.33	11.29	23	PASS
		Ant2	5320	TPC_L	8.68	95.05	0.22	8.90	3.33	12.23	23	PASS
		total	5320	TPC_L	---	---	---	17.68	3.33	14.80	23	PASS
		Ant1	5500	TPC_L	14.80	95.05	0.22	15.02	3.33	18.35	30	PASS
		Ant2	5500	TPC_L	15.99	95.05	0.22	16.21	3.33	19.54	30	PASS
		total	5500	TPC_L	---	---	---	24.71	3.33	22.00	30	PASS
		Ant1	5700	TPC_L	15.66	95.05	0.22	15.88	3.33	19.21	30	PASS
		Ant2	5700	TPC_L	15.95	95.05	0.22	16.17	3.33	19.50	30	PASS
		total	5700	TPC_L	---	---	---	25.24	3.33	22.37	30	PASS
	11N40MIMO	Ant1	5190	NA	14.16	90.38	0.44	14.6	3.33	17.93	23	PASS
		Ant2	5190	NA	17.26	90.38	0.44	17.7	3.33	21.03	23	PASS
		total	5190	NA	---	---	---	19.43	3.33	22.76	23	PASS
		Ant1	5230	NA	14.76	92.16	0.35	15.11	3.33	18.44	23	PASS
		Ant2	5230	NA	16.88	90.38	0.44	17.32	3.33	20.65	23	PASS
		total	5230	NA	---	---	---	19.36	3.33	22.69	23	PASS
		Ant1	5270	TPC_H	15.47	90.38	0.44	15.91	3.33	19.24	23	PASS
		Ant2	5270	TPC_H	16	90.38	0.44	16.44	3.33	19.77	23	PASS
		total	5270	TPC_H	---	---	---	19.19	3.33	22.52	23	PASS
		Ant1	5310	TPC_H	15.35	90.38	0.44	15.79	3.33	19.12	23	PASS
		Ant2	5310	TPC_H	15.93	89.52	0.48	16.41	3.33	19.74	23	PASS
		total	5310	TPC_H	---	---	---	19.12	3.33	22.45	23	PASS
		Ant1	5510	TPC_H	21.65	89.52	0.48	22.13	3.33	25.46	30	PASS
		Ant2	5510	TPC_H	22.87	90.38	0.44	23.31	3.33	26.64	30	PASS
		total	5510	TPC_H	---	---	---	25.77	3.33	29.1	30	PASS
		Ant1	5670	TPC_H	22.87	90.38	0.44	23.31	3.33	26.64	30	PASS
		Ant2	5670	TPC_H	22.91	90.38	0.44	23.35	3.33	26.68	30	PASS
		total	5670	TPC_H	---	---	---	26.34	3.33	29.67	30	PASS
		Ant1	5270	TPC_L	9.31	90.38	0.44	9.75	3.33	13.08	23	PASS
		Ant2	5270	TPC_L	9.94	90.38	0.44	10.38	3.33	13.71	23	PASS

		total	5270	TPC_L	---	---	---	19.19	3.33	16.42	23	PASS
		Ant1	5310	TPC_L	9.17	90.38	0.44	9.61	3.33	12.94	23	PASS
		Ant2	5310	TPC_L	9.90	89.52	0.48	10.38	3.33	13.71	23	PASS
		total	5310	TPC_L	---	---	---	19.12	3.33	16.36	23	PASS
		Ant1	5510	TPC_L	15.59	89.52	0.48	16.07	3.33	19.40	30	PASS
		Ant2	5510	TPC_L	16.77	90.38	0.44	17.21	3.33	20.54	30	PASS
		total	5510	TPC_L	---	---	---	25.77	3.33	23.02	30	PASS
		Ant1	5670	TPC_L	16.57	90.38	0.44	17.01	3.33	20.34	30	PASS
		Ant2	5670	TPC_L	16.66	90.38	0.44	17.10	3.33	20.43	30	PASS
		total	5670	TPC_L	---	---	---	26.34	3.33	23.40	30	PASS
	11AC20MIMO	Ant1	5180	NA	12.51	95.05	0.22	12.73	3.33	16.06	23	PASS
		Ant2	5180	NA	15.57	95.05	0.22	15.79	3.33	19.12	23	PASS
		total	5180	NA	---	---	---	17.53	3.33	20.86	23	PASS
		Ant1	5240	NA	13.96	95.05	0.22	14.18	3.33	17.51	23	PASS
		Ant2	5240	NA	15.55	95.05	0.22	15.77	3.33	19.1	23	PASS
		total	5240	NA	---	---	---	18.06	3.33	21.39	23	PASS
		Ant1	5260	TPC_H	13.65	95.05	0.22	13.87	3.33	17.2	23	PASS
		Ant2	5260	TPC_H	15.55	95.05	0.22	15.77	3.33	19.1	23	PASS
		total	5260	TPC_H	---	---	---	17.93	3.33	21.26	23	PASS
		Ant1	5320	TPC_H	13.77	95.05	0.22	13.99	3.33	17.32	23	PASS
		Ant2	5320	TPC_H	14.83	95.05	0.22	15.05	3.33	18.38	23	PASS
		total	5320	TPC_H	---	---	---	17.56	3.33	20.89	23	PASS
		Ant1	5500	TPC_H	20.71	95.05	0.22	20.93	3.33	24.26	30	PASS
		Ant2	5500	TPC_H	22.22	95.05	0.22	22.44	3.33	25.77	30	PASS
		total	5500	TPC_H	---	---	---	24.76	3.33	28.09	30	PASS
		Ant1	5700	TPC_H	21.93	97.96	0.09	22.02	3.33	25.35	30	PASS
		Ant2	5700	TPC_H	22.46	97.96	0.09	22.55	3.33	25.88	30	PASS
		total	5700	TPC_H	---	---	---	25.3	3.33	28.63	30	PASS
		Ant1	5260	TPC_L	7.54	95.05	0.22	7.76	3.33	11.09	23	PASS
		Ant2	5260	TPC_L	9.39	95.05	0.22	9.61	3.33	12.94	23	PASS
		total	5260	TPC_L	---	---	---	17.93	3.33	15.12	23	PASS
		Ant1	5320	TPC_L	7.68	95.05	0.22	7.90	3.33	11.23	23	PASS
		Ant2	5320	TPC_L	8.82	95.05	0.22	9.04	3.33	12.37	23	PASS
		total	5320	TPC_L	---	---	---	17.56	3.33	14.85	23	PASS
		Ant1	5500	TPC_L	14.58	95.05	0.22	14.80	3.33	18.13	30	PASS
		Ant2	5500	TPC_L	16.10	95.05	0.22	16.32	3.33	19.65	30	PASS
		total	5500	TPC_L	---	---	---	24.76	3.33	21.96	30	PASS
		Ant1	5700	TPC_L	15.89	97.96	0.09	15.98	3.33	19.31	30	PASS
		Ant2	5700	TPC_L	16.44	97.96	0.09	16.53	3.33	19.86	30	PASS
		total	5700	TPC_L	---	---	---	25.3	3.33	22.61	30	PASS
	11AC40MIMO	Ant1	5190	NA	14.4	96.94	0.13	14.53	3.33	17.86	23	PASS
		Ant2	5190	NA	17.21	96.94	0.13	17.34	3.33	20.67	23	PASS
		total	5190	NA	---	---	---	19.17	3.33	22.5	23	PASS

		Ant1	5230	NA	15.05	96.94	0.13	15.18	3.33	18.51	23	PASS
		Ant2	5230	NA	17.04	96.94	0.13	17.17	3.33	20.5	23	PASS
		total	5230	NA	---	---	---	19.3	3.33	22.63	23	PASS
		Ant1	5270	TPC_H	15.85	96.94	0.13	15.98	3.33	19.31	23	PASS
		Ant2	5270	TPC_H	16.6	96.94	0.13	16.73	3.33	20.06	23	PASS
		total	5270	TPC_H	---	---	---	19.38	3.33	22.71	23	PASS
		Ant1	5310	TPC_H	15.82	96.94	0.13	15.95	3.33	19.28	23	PASS
		Ant2	5310	TPC_H	16.26	96.94	0.13	16.39	3.33	19.72	23	PASS
		total	5310	TPC_H	---	---	---	19.19	3.33	22.52	23	PASS
		Ant1	5510	TPC_H	22.18	96.94	0.13	22.31	3.33	25.64	30	PASS
		Ant2	5510	TPC_H	23.25	96.94	0.13	23.38	3.33	26.71	30	PASS
		total	5510	TPC_H	---	---	---	25.89	3.33	29.22	30	PASS
		Ant1	5670	TPC_H	23.45	96.94	0.13	23.58	3.33	26.91	30	PASS
		Ant2	5670	TPC_H	23.41	96.94	0.13	23.54	3.33	26.87	30	PASS
		total	5670	TPC_H	---	---	---	26.57	3.33	29.9	30	PASS
		Ant1	5270	TPC_L	9.73	96.94	0.13	9.86	3.33	13.19	23	PASS
		Ant2	5270	TPC_L	10.59	96.94	0.13	10.72	3.33	14.05	23	PASS
		total	5270	TPC_L	---	---	---	19.38	3.33	16.65	23	PASS
		Ant1	5310	TPC_L	9.68	96.94	0.13	9.81	3.33	13.14	23	PASS
		Ant2	5310	TPC_L	10.02	96.94	0.13	10.15	3.33	13.48	23	PASS
		total	5310	TPC_L	---	---	---	19.19	3.33	16.32	23	PASS
		Ant1	5510	TPC_L	15.89	96.94	0.13	16.02	3.33	19.35	30	PASS
		Ant2	5510	TPC_L	16.98	96.94	0.13	17.11	3.33	20.44	30	PASS
		total	5510	TPC_L	---	---	---	25.89	3.33	22.94	30	PASS
		Ant1	5670	TPC_L	17.17	96.94	0.13	17.30	3.33	20.63	30	PASS
		Ant2	5670	TPC_L	17.18	96.94	0.13	17.31	3.33	20.64	30	PASS
		total	5670	TPC_L	---	---	---	26.57	3.33	23.64	30	PASS
	11AC80MIMO	Ant1	5210	NA	14.68	93.88	0.27	14.95	3.33	18.28	23	PASS
		Ant2	5210	NA	17.23	93.88	0.27	17.5	3.33	20.83	23	PASS
		total	5210	NA	---	---	---	19.42	3.33	22.75	23	PASS
		Ant1	5290	TPC_H	15.77	93.88	0.27	16.04	3.33	19.37	23	PASS
		Ant2	5290	TPC_H	16.77	93.88	0.27	17.04	3.33	20.37	23	PASS
		total	5290	TPC_H	---	---	---	19.58	3.33	22.91	23	PASS
		Ant1	5530	TPC_H	22.28	93.88	0.27	22.55	3.33	25.88	30	PASS
		Ant2	5530	TPC_H	23.22	93.88	0.27	23.49	3.33	26.82	30	PASS
		total	5530	TPC_H	---	---	---	26.06	3.33	29.39	30	PASS
		Ant1	5610	TPC_H	23.37	93.88	0.27	23.64	3.33	26.97	30	PASS
		Ant2	5610	TPC_H	23.02	93.88	0.27	23.29	3.33	26.62	30	PASS
		total	5610	TPC_H	---	---	---	26.48	3.33	29.81	30	PASS
		Ant1	5290	TPC_L	9.64	93.88	0.27	9.91	3.33	13.24	23	PASS
		Ant2	5290	TPC_L	10.75	93.88	0.27	11.02	3.33	14.35	23	PASS
		total	5290	TPC_L	---	---	---	19.58	3.33	16.84	23	PASS
		Ant1	5530	TPC_L	16.07	93.88	0.27	16.34	3.33	19.67	30	PASS

		Ant2	5530	TPC_L	16.96	93.88	0.27	17.23	3.33	20.56	30	PASS
		total	5530	TPC_L	---	---	---	26.06	3.33	23.15	30	PASS
		Ant1	5610	TPC_L	17.30	93.88	0.27	17.57	3.33	20.90	30	PASS
		Ant2	5610	TPC_L	16.73	93.88	0.27	17.00	3.33	20.33	30	PASS
		total	5610	TPC_L	---	---	---	26.48	3.33	23.63	30	PASS
	11AC160MIMO	Ant1	5250	TPC_H	14.72	89.29	0.49	15.21	3.33	18.54	23	PASS
		Ant2	5250	TPC_H	16.6	89.29	0.49	17.09	3.33	20.42	23	PASS
		total	5250	TPC_H	---	---	---	19.26	3.33	22.59	23	PASS
		Ant1	5570	TPC_H	22.73	89.29	0.49	23.22	3.33	26.55	30	PASS
		Ant2	5570	TPC_H	23.02	89.29	0.49	23.51	3.33	26.84	30	PASS
		total	5570	TPC_H	---	---	---	26.38	3.33	29.71	30	PASS
		Ant1	5250	TPC_L	8.43	89.29	0.49	8.92	3.33	12.25	23	PASS
		Ant2	5250	TPC_L	10.41	89.29	0.49	10.90	3.33	14.23	23	PASS
		total	5250	TPC_L	---	---	---	19.26	3.33	16.36	23	PASS
		Ant1	5570	TPC_L	16.63	89.29	0.49	17.12	3.33	20.45	30	PASS
		Ant2	5570	TPC_L	17.02	89.29	0.49	17.51	3.33	20.84	30	PASS
		total	5570	TPC_L	---	---	---	26.38	3.33	23.66	30	PASS
	11AX20MIMO	Ant1	5180	NA	14.46	97.39	0.11	14.57	3.33	17.9	23	PASS
		Ant2	5180	NA	17.33	97.39	0.11	17.44	3.33	20.77	23	PASS
		total	5180	NA	---	---	---	19.25	3.33	22.58	23	PASS
		Ant1	5240	NA	14.59	97.39	0.11	14.7	3.33	18.03	23	PASS
		Ant2	5240	NA	16.48	97.39	0.11	16.59	3.33	19.92	23	PASS
		total	5240	NA	---	---	---	18.76	3.33	22.09	23	PASS
		Ant1	5260	TPC_H	14.95	97.39	0.11	15.06	3.33	18.39	23	PASS
		Ant2	5260	TPC_H	16.83	97.39	0.11	16.94	3.33	20.27	23	PASS
		total	5260	TPC_H	---	---	---	19.11	3.33	22.44	23	PASS
		Ant1	5320	TPC_H	13.99	97.39	0.11	14.1	3.33	17.43	23	PASS
		Ant2	5320	TPC_H	15.8	97.39	0.11	15.91	3.33	19.24	23	PASS
		total	5320	TPC_H	---	---	---	18.11	3.33	21.44	23	PASS
		Ant1	5500	TPC_H	21.2	97.39	0.11	21.31	3.33	24.64	30	PASS
		Ant2	5500	TPC_H	22.73	97.39	0.11	22.84	3.33	26.17	30	PASS
		total	5500	TPC_H	---	---	---	25.15	3.33	28.48	30	PASS
		Ant1	5700	TPC_H	22.03	97.39	0.11	22.14	3.33	25.47	30	PASS
		Ant2	5700	TPC_H	22.46	97.39	0.11	22.57	3.33	25.9	30	PASS
		total	5700	TPC_H	---	---	---	25.37	3.33	28.7	30	PASS
		Ant1	5260	TPC_L	8.93	97.39	0.11	9.04	3.33	12.37	23	PASS
		Ant2	5260	TPC_L	10.79	97.39	0.11	10.90	3.33	14.23	23	PASS
		total	5260	TPC_L	---	---	---	19.11	3.33	16.41	23	PASS
		Ant1	5320	TPC_L	7.73	97.39	0.11	7.84	3.33	11.17	23	PASS
		Ant2	5320	TPC_L	9.78	97.39	0.11	9.89	3.33	13.22	23	PASS
		total	5320	TPC_L	---	---	---	18.11	3.33	15.32	23	PASS
		Ant1	5500	TPC_L	15.09	97.39	0.11	15.20	3.33	18.53	30	PASS
		Ant2	5500	TPC_L	16.56	97.39	0.11	16.67	3.33	20.00	30	PASS

		total	5500	TPC_L	---	---	---	25.15	3.33	22.34	30	PASS
		Ant1	5700	TPC_L	15.75	97.39	0.11	15.86	3.33	19.19	30	PASS
		Ant2	5700	TPC_L	16.19	97.39	0.11	16.30	3.33	19.63	30	PASS
		total	5700	TPC_L	---	---	---	25.37	3.33	22.43	30	PASS
11AX40MIMO		Ant1	5190	NA	14.19	95.12	0.22	14.41	3.33	17.74	23	PASS
		Ant2	5190	NA	17.23	95.12	0.22	17.45	3.33	20.78	23	PASS
		total	5190	NA	---	---	---	19.2	3.33	22.53	23	PASS
		Ant1	5230	NA	14.99	95.12	0.22	15.21	3.33	18.54	23	PASS
		Ant2	5230	NA	17.45	95.12	0.22	17.67	3.33	21	23	PASS
		total	5230	NA	---	---	---	19.62	3.33	22.95	23	PASS
		Ant1	5270	TPC_H	15.46	95.12	0.22	15.68	3.33	19.01	23	PASS
		Ant2	5270	TPC_H	16.46	95.12	0.22	16.68	3.33	20.01	23	PASS
		total	5270	TPC_H	---	---	---	19.22	3.33	22.55	23	PASS
		Ant1	5310	TPC_H	15.39	95.12	0.22	15.61	3.33	18.94	23	PASS
		Ant2	5310	TPC_H	16.12	95.12	0.22	16.34	3.33	19.67	23	PASS
		total	5310	TPC_H	---	---	---	19	3.33	22.33	23	PASS
		Ant1	5510	TPC_H	21.89	95.12	0.22	22.11	3.33	25.44	30	PASS
		Ant2	5510	TPC_H	22.95	95.12	0.22	23.17	3.33	26.5	30	PASS
		total	5510	TPC_H	---	---	---	25.68	3.33	29.01	30	PASS
		Ant1	5670	TPC_H	23.43	95.12	0.22	23.65	3.33	26.98	30	PASS
		Ant2	5670	TPC_H	23.27	95.12	0.22	23.49	3.33	26.82	30	PASS
		total	5670	TPC_H	---	---	---	26.58	3.33	29.91	30	PASS
		Ant1	5270	TPC_L	9.31	95.12	0.22	9.53	3.33	12.86	23	PASS
		Ant2	5270	TPC_L	10.32	95.12	0.22	10.54	3.33	13.87	23	PASS
		total	5270	TPC_L	---	---	---	19.22	3.33	16.41	23	PASS
		Ant1	5310	TPC_L	9.09	95.12	0.22	9.31	3.33	12.64	23	PASS
		Ant2	5310	TPC_L	9.82	95.12	0.22	10.04	3.33	13.37	23	PASS
		total	5310	TPC_L	---	---	---	19	3.33	16.03	23	PASS
		Ant1	5510	TPC_L	15.87	95.12	0.22	16.09	3.33	19.42	30	PASS
		Ant2	5510	TPC_L	16.84	95.12	0.22	17.06	3.33	20.39	30	PASS
		total	5510	TPC_L	---	---	---	25.68	3.33	22.94	30	PASS
		Ant1	5670	TPC_L	17.24	95.12	0.22	17.46	3.33	20.79	30	PASS
		Ant2	5670	TPC_L	17.22	95.12	0.22	17.44	3.33	20.77	30	PASS
		total	5670	TPC_L	---	---	---	26.58	3.33	23.79	30	PASS
11AX80MIMO		Ant1	5210	NA	13.26	90.91	0.41	13.67	3.33	17	23	PASS
		Ant2	5210	NA	15.88	90.91	0.41	16.29	3.33	19.62	23	PASS
		total	5210	NA	---	---	---	18.18	3.33	21.51	23	PASS
		Ant1	5290	TPC_H	14.61	90.91	0.41	15.02	3.33	18.35	23	PASS
		Ant2	5290	TPC_H	15.76	90.91	0.41	16.17	3.33	19.5	23	PASS
		total	5290	TPC_H	---	---	---	18.64	3.33	21.97	23	PASS
		Ant1	5530	TPC_H	22.01	90.91	0.41	22.42	3.33	25.75	30	PASS
		Ant2	5530	TPC_H	22.94	90.91	0.41	23.35	3.33	26.68	30	PASS
		total	5530	TPC_H	---	---	---	25.92	3.33	29.25	30	PASS

		Ant1	5610	TPC_H	22.91	90.91	0.41	23.32	3.33	26.65	30	PASS
		Ant2	5610	TPC_H	22.87	90.91	0.41	23.28	3.33	26.61	30	PASS
		total	5610	TPC_H	---	---	---	26.31	3.33	29.64	30	PASS
		Ant1	5290	TPC_L	8.52	90.91	0.41	8.93	3.33	12.26	23	PASS
		Ant2	5290	TPC_L	9.66	90.91	0.41	10.07	3.33	13.40	23	PASS
		total	5290	TPC_L	---	---	---	18.64	3.33	15.87	23	PASS
		Ant1	5530	TPC_L	15.94	90.91	0.41	16.35	3.33	19.68	30	PASS
		Ant2	5530	TPC_L	16.67	90.91	0.41	17.08	3.33	20.41	30	PASS
		total	5530	TPC_L	---	---	---	25.92	3.33	23.07	30	PASS
		Ant1	5610	TPC_L	16.90	90.91	0.41	17.31	3.33	20.64	30	PASS
		Ant2	5610	TPC_L	16.65	90.91	0.41	17.06	3.33	20.39	30	PASS
		total	5610	TPC_L	---	---	---	26.31	3.33	23.53	30	PASS
	11AX160MIMO	Ant1	5250	TPC_H	14.13	88.89	0.51	14.64	3.33	17.97	23	PASS
		Ant2	5250	TPC_H	16.15	88.89	0.51	16.66	3.33	19.99	23	PASS
		total	5250	TPC_H	---	---	---	18.78	3.33	22.11	23	PASS
		Ant1	5570	TPC_H	22.96	88.89	0.51	23.47	3.33	26.8	30	PASS
		Ant2	5570	TPC_H	23.16	88.89	0.51	23.67	3.33	27	30	PASS
		total	5570	TPC_H	---	---	---	26.58	3.33	29.91	30	PASS
		Ant1	5250	TPC_L	7.95	88.89	0.51	8.46	3.33	11.79	23	PASS
		Ant2	5250	TPC_L	10.08	88.89	0.51	10.59	3.33	13.92	23	PASS
		total	5250	TPC_L	---	---	---	18.78	3.33	16.00	23	PASS
		Ant1	5570	TPC_L	16.85	88.89	0.51	17.36	3.33	20.69	30	PASS
		Ant2	5570	TPC_L	16.96	88.89	0.51	17.47	3.33	20.80	30	PASS
		total	5570	TPC_L	---	---	---	26.58	3.33	23.76	30	PASS
NTNV	11A-CDD	Ant1	5180	NA	13.36	94.93	0.23	13.59	3.33	16.92	23	PASS
		Ant2	5180	NA	15.89	94.93	0.23	16.12	3.33	19.45	23	PASS
		total	5180	NA	---	---	---	18.05	3.33	21.38	23	PASS
		Ant1	5240	NA	13.38	94.93	0.23	13.61	3.33	16.94	23	PASS
		Ant2	5240	NA	15.72	94.93	0.23	15.95	3.33	19.28	23	PASS
		total	5240	NA	---	---	---	17.95	3.33	21.28	23	PASS
		Ant1	5260	TPC_H	13.26	94.93	0.23	13.49	3.33	16.82	23	PASS
		Ant2	5260	TPC_H	15.36	94.93	0.23	15.59	3.33	18.92	23	PASS
		total	5260	TPC_H	---	---	---	17.68	3.33	21.01	23	PASS
		Ant1	5320	TPC_H	12.95	94.93	0.23	13.18	3.33	16.51	23	PASS
		Ant2	5320	TPC_H	14.51	94.93	0.23	14.74	3.33	18.07	23	PASS
		total	5320	TPC_H	---	---	---	17.04	3.33	20.37	23	PASS
		Ant1	5500	TPC_H	20.5	94.93	0.23	20.73	3.33	24.06	30	PASS
		Ant2	5500	TPC_H	21.54	94.93	0.23	21.77	3.33	25.1	30	PASS
		total	5500	TPC_H	---	---	---	24.29	3.33	27.62	30	PASS
		Ant1	5700	TPC_H	21.67	94.93	0.23	21.9	3.33	25.23	30	PASS
		Ant2	5700	TPC_H	22.24	94.93	0.23	22.47	3.33	25.8	30	PASS
		total	5700	TPC_H	---	---	---	25.2	3.33	28.53	30	PASS
		Ant1	5260	TPC_L	6.8	94.93	0.23	7.03	3.33	10.36	23	PASS

		Ant2	5260	TPC_L	8.95	94.93	0.23	9.18	3.33	12.51	23	PASS
		total	5260	TPC_L	---	---	---	11.25	3.33	14.58	23	PASS
		Ant1	5320	TPC_L	6.42	94.93	0.23	6.65	3.33	9.98	23	PASS
		Ant2	5320	TPC_L	8.08	94.93	0.23	8.31	3.33	11.64	23	PASS
		total	5320	TPC_L	---	---	---	10.57	3.33	13.9	23	PASS
		Ant1	5500	TPC_L	13.99	94.93	0.23	14.22	3.33	17.55	30	PASS
		Ant2	5500	TPC_L	15.1	94.93	0.23	15.33	3.33	18.66	30	PASS
		total	5500	TPC_L	---	---	---	17.82	3.33	21.15	30	PASS
		Ant1	5700	TPC_L	15.16	94.93	0.23	15.39	3.33	18.72	30	PASS
		Ant2	5700	TPC_L	15.78	94.93	0.23	16.01	3.33	19.34	30	PASS
		total	5700	TPC_L	---	---	---	18.72	3.33	22.05	30	PASS
	11N20MIMO	Ant1	5180	NA	12.67	95.05	0.22	12.89	3.33	16.22	23	PASS
		Ant2	5180	NA	15.71	95.05	0.22	15.93	3.33	19.26	23	PASS
		total	5180	NA	---	---	---	17.68	3.33	21.01	23	PASS
		Ant1	5240	NA	14.19	95.05	0.22	14.41	3.33	17.74	23	PASS
		Ant2	5240	NA	15.79	95.05	0.22	16.01	3.33	19.34	23	PASS
		total	5240	NA	---	---	---	18.29	3.33	21.62	23	PASS
		Ant1	5260	TPC_H	13.69	95.05	0.22	13.91	3.33	17.24	23	PASS
		Ant2	5260	TPC_H	15.72	95.05	0.22	15.94	3.33	19.27	23	PASS
		total	5260	TPC_H	---	---	---	18.05	3.33	21.38	23	PASS
		Ant1	5320	TPC_H	13.69	95.05	0.22	13.91	3.33	17.24	23	PASS
		Ant2	5320	TPC_H	14.75	95.05	0.22	14.97	3.33	18.3	23	PASS
		total	5320	TPC_H	---	---	---	17.48	3.33	20.81	23	PASS
		Ant1	5500	TPC_H	20.66	95.05	0.22	20.88	3.33	24.21	30	PASS
		Ant2	5500	TPC_H	21.92	95.05	0.22	22.14	3.33	25.47	30	PASS
		total	5500	TPC_H	---	---	---	24.57	3.33	27.9	30	PASS
		Ant1	5700	TPC_H	21.71	95.05	0.22	21.93	3.33	25.26	30	PASS
		Ant2	5700	TPC_H	21.87	95.05	0.22	22.09	3.33	25.42	30	PASS
		total	5700	TPC_H	---	---	---	25.02	3.33	28.35	30	PASS
		Ant1	5260	TPC_L	7.26	95.05	0.22	7.48	3.33	10.81	23	PASS
		Ant2	5260	TPC_L	9.17	95.05	0.22	9.39	3.33	12.72	23	PASS
		total	5260	TPC_L	---	---	---	11.55	3.33	14.88	23	PASS
		Ant1	5320	TPC_L	7.22	95.05	0.22	7.44	3.33	10.77	23	PASS
		Ant2	5320	TPC_L	8.31	95.05	0.22	8.53	3.33	11.86	23	PASS
		total	5320	TPC_L	---	---	---	11.03	3.33	14.36	23	PASS
		Ant1	5500	TPC_L	14.07	95.05	0.22	14.29	3.33	17.62	30	PASS
		Ant2	5500	TPC_L	15.39	95.05	0.22	15.61	3.33	18.94	30	PASS
		total	5500	TPC_L	---	---	---	18.01	3.33	21.34	30	PASS
		Ant1	5700	TPC_L	15.13	95.05	0.22	15.35	3.33	18.68	30	PASS
		Ant2	5700	TPC_L	15.49	95.05	0.22	15.71	3.33	19.04	30	PASS
		total	5700	TPC_L	---	---	---	18.54	3.33	21.87	30	PASS
	11N40MIMO	Ant1	5190	NA	14.03	90.38	0.44	14.47	3.33	17.8	23	PASS
		Ant2	5190	NA	16.98	90.38	0.44	17.42	3.33	20.75	23	PASS

		total	5190	NA	---	---	---	19.2	3.33	22.53	23	PASS
		Ant1	5230	NA	14.51	92.16	0.35	14.86	3.33	18.19	23	PASS
		Ant2	5230	NA	16.78	90.38	0.44	17.22	3.33	20.55	23	PASS
		total	5230	NA	---	---	---	19.21	3.33	22.54	23	PASS
		Ant1	5270	TPC_H	15.28	90.38	0.44	15.72	3.33	19.05	23	PASS
		Ant2	5270	TPC_H	15.87	90.38	0.44	16.31	3.33	19.64	23	PASS
		total	5270	TPC_H	---	---	---	19.04	3.33	22.37	23	PASS
		Ant1	5310	TPC_H	15.24	90.38	0.44	15.68	3.33	19.01	23	PASS
		Ant2	5310	TPC_H	15.69	89.52	0.48	16.17	3.33	19.5	23	PASS
		total	5310	TPC_H	---	---	---	18.94	3.33	22.27	23	PASS
		Ant1	5510	TPC_H	21.42	89.52	0.48	21.9	3.33	25.23	30	PASS
		Ant2	5510	TPC_H	22.63	90.38	0.44	23.07	3.33	26.4	30	PASS
		total	5510	TPC_H	---	---	---	25.53	3.33	28.86	30	PASS
		Ant1	5670	TPC_H	22.65	90.38	0.44	23.09	3.33	26.42	30	PASS
		Ant2	5670	TPC_H	22.71	90.38	0.44	23.15	3.33	26.48	30	PASS
		total	5670	TPC_H	---	---	---	26.13	3.33	29.46	30	PASS
		Ant1	5270	TPC_L	8.7	90.38	0.44	9.14	3.33	12.47	23	PASS
		Ant2	5270	TPC_L	9.27	90.38	0.44	9.71	3.33	13.04	23	PASS
		total	5270	TPC_L	---	---	---	12.44	3.33	15.77	23	PASS
		Ant1	5310	TPC_L	8.58	90.38	0.44	9.02	3.33	12.35	23	PASS
		Ant2	5310	TPC_L	9.3	89.52	0.48	9.78	3.33	13.11	23	PASS
		total	5310	TPC_L	---	---	---	12.43	3.33	15.76	23	PASS
		Ant1	5510	TPC_L	14.87	89.52	0.48	15.35	3.33	18.68	30	PASS
		Ant2	5510	TPC_L	16.11	90.38	0.44	16.55	3.33	19.88	30	PASS
		total	5510	TPC_L	---	---	---	19	3.33	22.33	30	PASS
		Ant1	5670	TPC_L	16.21	90.38	0.44	16.65	3.33	19.98	30	PASS
		Ant2	5670	TPC_L	16.2	90.38	0.44	16.64	3.33	19.97	30	PASS
		total	5670	TPC_L	---	---	---	19.66	3.33	22.99	30	PASS
	11AC20MIMO	Ant1	5180	NA	12.29	95.05	0.22	12.51	3.33	15.84	23	PASS
		Ant2	5180	NA	15.4	95.05	0.22	15.62	3.33	18.95	23	PASS
		total	5180	NA	---	---	---	17.35	3.33	20.68	23	PASS
		Ant1	5240	NA	13.85	95.05	0.22	14.07	3.33	17.4	23	PASS
		Ant2	5240	NA	15.37	95.05	0.22	15.59	3.33	18.92	23	PASS
		total	5240	NA	---	---	---	17.91	3.33	21.24	23	PASS
		Ant1	5260	TPC_H	13.48	95.05	0.22	13.7	3.33	17.03	23	PASS
		Ant2	5260	TPC_H	15.41	95.05	0.22	15.63	3.33	18.96	23	PASS
		total	5260	TPC_H	---	---	---	17.78	3.33	21.11	23	PASS
		Ant1	5320	TPC_H	13.54	95.05	0.22	13.76	3.33	17.09	23	PASS
		Ant2	5320	TPC_H	14.66	95.05	0.22	14.88	3.33	18.21	23	PASS
		total	5320	TPC_H	---	---	---	17.37	3.33	20.7	23	PASS
		Ant1	5500	TPC_H	20.51	95.05	0.22	20.73	3.33	24.06	30	PASS
		Ant2	5500	TPC_H	22.06	95.05	0.22	22.28	3.33	25.61	30	PASS
		total	5500	TPC_H	---	---	---	24.58	3.33	27.91	30	PASS

		Ant1	5700	TPC_H	21.78	97.96	0.09	21.87	3.33	25.2	30	PASS
		Ant2	5700	TPC_H	22.22	97.96	0.09	22.31	3.33	25.64	30	PASS
		total	5700	TPC_H	---	---	---	25.11	3.33	28.44	30	PASS
		Ant1	5260	TPC_L	6.9	95.05	0.22	7.12	3.33	10.45	23	PASS
		Ant2	5260	TPC_L	8.8	95.05	0.22	9.02	3.33	12.35	23	PASS
		total	5260	TPC_L	---	---	---	11.18	3.33	14.51	23	PASS
		Ant1	5320	TPC_L	7.02	95.05	0.22	7.24	3.33	10.57	23	PASS
		Ant2	5320	TPC_L	8.13	95.05	0.22	8.35	3.33	11.68	23	PASS
		total	5320	TPC_L	---	---	---	10.84	3.33	14.17	23	PASS
		Ant1	5500	TPC_L	14.04	95.05	0.22	14.26	3.33	17.59	30	PASS
		Ant2	5500	TPC_L	15.46	95.05	0.22	15.68	3.33	19.01	30	PASS
		total	5500	TPC_L	---	---	---	18.04	3.33	21.37	30	PASS
		Ant1	5700	TPC_L	15.19	97.96	0.09	15.28	3.33	18.61	30	PASS
		Ant2	5700	TPC_L	15.7	97.96	0.09	15.79	3.33	19.12	30	PASS
		total	5700	TPC_L	---	---	---	18.55	3.33	21.88	30	PASS
	11AC40MIMO	Ant1	5190	NA	14.15	96.94	0.13	14.28	3.33	17.61	23	PASS
		Ant2	5190	NA	17.01	96.94	0.13	17.14	3.33	20.47	23	PASS
		total	5190	NA	---	---	---	18.95	3.33	22.28	23	PASS
		Ant1	5230	NA	14.87	96.94	0.13	15	3.33	18.33	23	PASS
		Ant2	5230	NA	16.83	96.94	0.13	16.96	3.33	20.29	23	PASS
		total	5230	NA	---	---	---	19.1	3.33	22.43	23	PASS
		Ant1	5270	TPC_H	15.55	96.94	0.13	15.68	3.33	19.01	23	PASS
		Ant2	5270	TPC_H	16.4	96.94	0.13	16.53	3.33	19.86	23	PASS
		total	5270	TPC_H	---	---	---	19.14	3.33	22.47	23	PASS
		Ant1	5310	TPC_H	15.64	96.94	0.13	15.77	3.33	19.1	23	PASS
		Ant2	5310	TPC_H	15.99	96.94	0.13	16.12	3.33	19.45	23	PASS
		total	5310	TPC_H	---	---	---	18.96	3.33	22.29	23	PASS
		Ant1	5510	TPC_H	22.01	96.94	0.13	22.14	3.33	25.47	30	PASS
		Ant2	5510	TPC_H	23.13	96.94	0.13	23.26	3.33	26.59	30	PASS
		total	5510	TPC_H	---	---	---	25.75	3.33	29.08	30	PASS
		Ant1	5670	TPC_H	23.18	96.94	0.13	23.31	3.33	26.64	30	PASS
		Ant2	5670	TPC_H	23.22	96.94	0.13	23.35	3.33	26.68	30	PASS
		total	5670	TPC_H	---	---	---	26.34	3.33	29.67	30	PASS
		Ant1	5270	TPC_L	9.23	96.94	0.13	9.36	3.33	12.69	23	PASS
		Ant2	5270	TPC_L	9.85	96.94	0.13	9.98	3.33	13.31	23	PASS
		total	5270	TPC_L	---	---	---	12.69	3.33	16.02	23	PASS
		Ant1	5310	TPC_L	9.12	96.94	0.13	9.25	3.33	12.58	23	PASS
		Ant2	5310	TPC_L	9.51	96.94	0.13	9.64	3.33	12.97	23	PASS
		total	5310	TPC_L	---	---	---	12.46	3.33	15.79	23	PASS
		Ant1	5510	TPC_L	15.47	96.94	0.13	15.6	3.33	18.93	30	PASS
		Ant2	5510	TPC_L	16.63	96.94	0.13	16.76	3.33	20.09	30	PASS
		total	5510	TPC_L	---	---	---	19.23	3.33	22.56	30	PASS
		Ant1	5670	TPC_L	16.68	96.94	0.13	16.81	3.33	20.14	30	PASS

		Ant2	5670	TPC_L	16.78	96.94	0.13	16.91	3.33	20.24	30	PASS
		total	5670	TPC_L	---	---	---	19.87	3.33	23.2	30	PASS
	11AC80MIMO	Ant1	5210	NA	14.57	93.88	0.27	14.84	3.33	18.17	23	PASS
		Ant2	5210	NA	17.12	93.88	0.27	17.39	3.33	20.72	23	PASS
		total	5210	NA	---	---	---	19.31	3.33	22.64	23	PASS
		Ant1	5290	TPC_H	15.62	93.88	0.27	15.89	3.33	19.22	23	PASS
		Ant2	5290	TPC_H	16.52	93.88	0.27	16.79	3.33	20.12	23	PASS
		total	5290	TPC_H	---	---	---	19.37	3.33	22.7	23	PASS
		Ant1	5530	TPC_H	22.07	93.88	0.27	22.34	3.33	25.67	30	PASS
		Ant2	5530	TPC_H	23.06	93.88	0.27	23.33	3.33	26.66	30	PASS
		total	5530	TPC_H	---	---	---	25.87	3.33	29.2	30	PASS
		Ant1	5610	TPC_H	23.17	93.88	0.27	23.44	3.33	26.77	30	PASS
		Ant2	5610	TPC_H	22.89	93.88	0.27	23.16	3.33	26.49	30	PASS
		total	5610	TPC_H	---	---	---	26.31	3.33	29.64	30	PASS
		Ant1	5290	TPC_L	9.05	93.88	0.27	9.32	3.33	12.65	23	PASS
		Ant2	5290	TPC_L	10.1	93.88	0.27	10.37	3.33	13.7	23	PASS
		total	5290	TPC_L	---	---	---	12.89	3.33	16.22	23	PASS
		Ant1	5530	TPC_L	15.51	93.88	0.27	15.78	3.33	19.11	30	PASS
		Ant2	5530	TPC_L	16.52	93.88	0.27	16.79	3.33	20.12	30	PASS
		total	5530	TPC_L	---	---	---	19.32	3.33	22.65	30	PASS
		Ant1	5610	TPC_L	16.64	93.88	0.27	16.91	3.33	20.24	30	PASS
		Ant2	5610	TPC_L	16.36	93.88	0.27	16.63	3.33	19.96	30	PASS
		total	5610	TPC_L	---	---	---	19.78	3.33	23.11	30	PASS
	11AC160MIMO	Ant1	5250	TPC_H	14.45	89.29	0.49	14.94	3.33	18.27	23	PASS
		Ant2	5250	TPC_H	16.31	89.29	0.49	16.8	3.33	20.13	23	PASS
		total	5250	TPC_H	---	---	---	18.98	3.33	22.31	23	PASS
		Ant1	5570	TPC_H	22.54	89.29	0.49	23.03	3.33	26.36	30	PASS
		Ant2	5570	TPC_H	22.91	89.29	0.49	23.4	3.33	26.73	30	PASS
		total	5570	TPC_H	---	---	---	26.23	3.33	29.56	30	PASS
		Ant1	5250	TPC_L	8.11	89.29	0.49	8.6	3.33	11.93	23	PASS
		Ant2	5250	TPC_L	9.99	89.29	0.49	10.48	3.33	13.81	23	PASS
		total	5250	TPC_L	---	---	---	12.65	3.33	15.98	23	PASS
		Ant1	5570	TPC_L	15.98	89.29	0.49	16.47	3.33	19.8	30	PASS
		Ant2	5570	TPC_L	16.34	89.29	0.49	16.83	3.33	20.16	30	PASS
		total	5570	TPC_L	---	---	---	19.66	3.33	22.99	30	PASS
	11AX20MIMO	Ant1	5180	NA	14.2	97.39	0.11	14.31	3.33	17.64	23	PASS
		Ant2	5180	NA	17.14	97.39	0.11	17.25	3.33	20.58	23	PASS
		total	5180	NA	---	---	---	19.03	3.33	22.36	23	PASS
		Ant1	5240	NA	14.41	97.39	0.11	14.52	3.33	17.85	23	PASS
		Ant2	5240	NA	16.32	97.39	0.11	16.43	3.33	19.76	23	PASS
		total	5240	NA	---	---	---	18.59	3.33	21.92	23	PASS
		Ant1	5260	TPC_H	14.76	97.39	0.11	14.87	3.33	18.2	23	PASS
		Ant2	5260	TPC_H	16.55	97.39	0.11	16.66	3.33	19.99	23	PASS

		total	5260	TPC_H	---	---	---	18.87	3.33	22.2	23	PASS
		Ant1	5320	TPC_H	13.72	97.39	0.11	13.83	3.33	17.16	23	PASS
		Ant2	5320	TPC_H	15.54	97.39	0.11	15.65	3.33	18.98	23	PASS
		total	5320	TPC_H	---	---	---	17.84	3.33	21.17	23	PASS
		Ant1	5500	TPC_H	20.98	97.39	0.11	21.09	3.33	24.42	30	PASS
		Ant2	5500	TPC_H	22.49	97.39	0.11	22.6	3.33	25.93	30	PASS
		total	5500	TPC_H	---	---	---	24.92	3.33	28.25	30	PASS
		Ant1	5700	TPC_H	21.91	97.39	0.11	22.02	3.33	25.35	30	PASS
		Ant2	5700	TPC_H	22.17	97.39	0.11	22.28	3.33	25.61	30	PASS
		total	5700	TPC_H	---	---	---	25.16	3.33	28.49	30	PASS
		Ant1	5260	TPC_L	8.24	97.39	0.11	8.35	3.33	11.68	23	PASS
		Ant2	5260	TPC_L	10.19	97.39	0.11	10.3	3.33	13.63	23	PASS
		total	5260	TPC_L	---	---	---	12.45	3.33	15.78	23	PASS
		Ant1	5320	TPC_L	7.24	97.39	0.11	7.35	3.33	10.68	23	PASS
		Ant2	5320	TPC_L	9.03	97.39	0.11	9.14	3.33	12.47	23	PASS
		total	5320	TPC_L	---	---	---	11.35	3.33	14.68	23	PASS
		Ant1	5500	TPC_L	14.49	97.39	0.11	14.6	3.33	17.93	30	PASS
		Ant2	5500	TPC_L	16.03	97.39	0.11	16.14	3.33	19.47	30	PASS
		total	5500	TPC_L	---	---	---	18.45	3.33	21.78	30	PASS
		Ant1	5700	TPC_L	15.34	97.39	0.11	15.45	3.33	18.78	30	PASS
		Ant2	5700	TPC_L	15.71	97.39	0.11	15.82	3.33	19.15	30	PASS
		total	5700	TPC_L	---	---	---	18.65	3.33	21.98	30	PASS
	11AX40MIMO	Ant1	5190	NA	14.06	95.12	0.22	14.28	3.33	17.61	23	PASS
		Ant2	5190	NA	17.05	95.12	0.22	17.27	3.33	20.6	23	PASS
		total	5190	NA	---	---	---	19.04	3.33	22.37	23	PASS
		Ant1	5230	NA	14.86	95.12	0.22	15.08	3.33	18.41	23	PASS
		Ant2	5230	NA	17.15	95.12	0.22	17.37	3.33	20.7	23	PASS
		total	5230	NA	---	---	---	19.39	3.33	22.72	23	PASS
		Ant1	5270	TPC_H	15.35	95.12	0.22	15.57	3.33	18.9	23	PASS
		Ant2	5270	TPC_H	16.26	95.12	0.22	16.48	3.33	19.81	23	PASS
		total	5270	TPC_H	---	---	---	19.06	3.33	22.39	23	PASS
		Ant1	5310	TPC_H	15.19	95.12	0.22	15.41	3.33	18.74	23	PASS
		Ant2	5310	TPC_H	15.94	95.12	0.22	16.16	3.33	19.49	23	PASS
		total	5310	TPC_H	---	---	---	18.81	3.33	22.14	23	PASS
		Ant1	5510	TPC_H	21.68	95.12	0.22	21.9	3.33	25.23	30	PASS
		Ant2	5510	TPC_H	22.84	95.12	0.22	23.06	3.33	26.39	30	PASS
		total	5510	TPC_H	---	---	---	25.53	3.33	28.86	30	PASS
		Ant1	5670	TPC_H	23.33	95.12	0.22	23.55	3.33	26.88	30	PASS
		Ant2	5670	TPC_H	23.12	95.12	0.22	23.34	3.33	26.67	30	PASS
		total	5670	TPC_H	---	---	---	26.45	3.33	29.78	30	PASS
		Ant1	5270	TPC_L	8.66	95.12	0.22	8.88	3.33	12.21	23	PASS
		Ant2	5270	TPC_L	9.83	95.12	0.22	10.05	3.33	13.38	23	PASS
		total	5270	TPC_L	---	---	---	12.51	3.33	15.84	23	PASS

		Ant1	5310	TPC_L	8.66	95.12	0.22	8.88	3.33	12.21	23	PASS
		Ant2	5310	TPC_L	9.44	95.12	0.22	9.66	3.33	12.99	23	PASS
		total	5310	TPC_L	---	---	---	12.3	3.33	15.63	23	PASS
		Ant1	5510	TPC_L	15.25	95.12	0.22	15.47	3.33	18.8	30	PASS
		Ant2	5510	TPC_L	16.31	95.12	0.22	16.53	3.33	19.86	30	PASS
		total	5510	TPC_L	---	---	---	19.04	3.33	22.37	30	PASS
		Ant1	5670	TPC_L	16.75	95.12	0.22	16.97	3.33	20.3	30	PASS
		Ant2	5670	TPC_L	16.56	95.12	0.22	16.78	3.33	20.11	30	PASS
		total	5670	TPC_L	---	---	---	19.89	3.33	23.22	30	PASS
	11AX80MIMO	Ant1	5210	NA	13	90.91	0.41	13.41	3.33	16.74	23	PASS
		Ant2	5210	NA	15.74	90.91	0.41	16.15	3.33	19.48	23	PASS
		total	5210	NA	---	---	---	18	3.33	21.33	23	PASS
		Ant1	5290	TPC_H	14.37	90.91	0.41	14.78	3.33	18.11	23	PASS
		Ant2	5290	TPC_H	15.47	90.91	0.41	15.88	3.33	19.21	23	PASS
		total	5290	TPC_H	---	---	---	18.38	3.33	21.71	23	PASS
		Ant1	5530	TPC_H	21.77	90.91	0.41	22.18	3.33	25.51	30	PASS
		Ant2	5530	TPC_H	22.67	90.91	0.41	23.08	3.33	26.41	30	PASS
		total	5530	TPC_H	---	---	---	25.67	3.33	29	30	PASS
		Ant1	5610	TPC_H	22.71	90.91	0.41	23.12	3.33	26.45	30	PASS
		Ant2	5610	TPC_H	22.69	90.91	0.41	23.1	3.33	26.43	30	PASS
		total	5610	TPC_H	---	---	---	26.12	3.33	29.45	30	PASS
		Ant1	5290	TPC_L	7.87	90.91	0.41	8.28	3.33	11.61	23	PASS
		Ant2	5290	TPC_L	9	90.91	0.41	9.41	3.33	12.74	23	PASS
		total	5290	TPC_L	---	---	---	11.89	3.33	15.22	23	PASS
		Ant1	5530	TPC_L	15.38	90.91	0.41	15.79	3.33	19.12	30	PASS
		Ant2	5530	TPC_L	16.32	90.91	0.41	16.73	3.33	20.06	30	PASS
		total	5530	TPC_L	---	---	---	19.29	3.33	22.62	30	PASS
		Ant1	5610	TPC_L	16.13	90.91	0.41	16.54	3.33	19.87	30	PASS
		Ant2	5610	TPC_L	16.08	90.91	0.41	16.49	3.33	19.82	30	PASS
		total	5610	TPC_L	---	---	---	19.53	3.33	22.86	30	PASS
	11AX160MIMO	Ant1	5250	TPC_H	13.9	88.89	0.51	14.41	3.33	17.74	23	PASS
		Ant2	5250	TPC_H	15.93	88.89	0.51	16.44	3.33	19.77	23	PASS
		total	5250	TPC_H	---	---	---	18.55	3.33	21.88	23	PASS
		Ant1	5570	TPC_H	22.72	88.89	0.51	23.23	3.33	26.56	30	PASS
		Ant2	5570	TPC_H	23.04	88.89	0.51	23.55	3.33	26.88	30	PASS
		total	5570	TPC_H	---	---	---	26.4	3.33	29.73	30	PASS
		Ant1	5250	TPC_L	7.43	88.89	0.51	7.94	3.33	11.27	23	PASS
		Ant2	5250	TPC_L	9.46	88.89	0.51	9.97	3.33	13.3	23	PASS
		total	5250	TPC_L	---	---	---	12.08	3.33	15.41	23	PASS
		Ant1	5570	TPC_L	16.25	88.89	0.51	16.76	3.33	20.09	30	PASS
		Ant2	5570	TPC_L	16.5	88.89	0.51	17.01	3.33	20.34	30	PASS
		total	5570	TPC_L	---	---	---	19.9	3.33	23.23	30	PASS
HTNV	11A-CDD	Ant1	5180	NA	13.25	94.93	0.23	13.48	3.33	16.81	23	PASS

		Ant2	5180	NA	15.71	94.93	0.23	15.94	3.33	19.27	23	PASS
		total	5180	NA	---	---	---	17.89	3.33	21.22	23	PASS
		Ant1	5240	NA	13.2	94.93	0.23	13.43	3.33	16.76	23	PASS
		Ant2	5240	NA	15.46	94.93	0.23	15.69	3.33	19.02	23	PASS
		total	5240	NA	---	---	---	17.71	3.33	21.04	23	PASS
		Ant1	5260	TPC_H	13.15	94.93	0.23	13.38	3.33	16.71	23	PASS
		Ant2	5260	TPC_H	15.13	94.93	0.23	15.36	3.33	18.69	23	PASS
		total	5260	TPC_H	---	---	---	17.49	3.33	20.82	23	PASS
		Ant1	5320	TPC_H	12.75	94.93	0.23	12.98	3.33	16.31	23	PASS
		Ant2	5320	TPC_H	14.39	94.93	0.23	14.62	3.33	17.95	23	PASS
		total	5320	TPC_H	---	---	---	16.89	3.33	20.22	23	PASS
		Ant1	5500	TPC_H	20.31	94.93	0.23	20.54	3.33	23.87	30	PASS
		Ant2	5500	TPC_H	21.39	94.93	0.23	21.62	3.33	24.95	30	PASS
		total	5500	TPC_H	---	---	---	24.12	3.33	27.45	30	PASS
		Ant1	5700	TPC_H	21.51	94.93	0.23	21.74	3.33	25.07	30	PASS
		Ant2	5700	TPC_H	22	94.93	0.23	22.23	3.33	25.56	30	PASS
		total	5700	TPC_H	---	---	---	25	3.33	28.33	30	PASS
		Ant1	5260	TPC_L	6.69	94.93	0.23	6.92	3.33	10.25	23	PASS
		Ant2	5260	TPC_L	8.67	94.93	0.23	8.9	3.33	12.23	23	PASS
		total	5260	TPC_L	---	---	---	11.03	3.33	14.36	23	PASS
		Ant1	5320	TPC_L	6.14	94.93	0.23	6.37	3.33	9.7	23	PASS
		Ant2	5320	TPC_L	7.95	94.93	0.23	8.18	3.33	11.51	23	PASS
		total	5320	TPC_L	---	---	---	10.37	3.33	13.7	23	PASS
		Ant1	5500	TPC_L	13.79	94.93	0.23	14.02	3.33	17.35	30	PASS
		Ant2	5500	TPC_L	14.82	94.93	0.23	15.05	3.33	18.38	30	PASS
		total	5500	TPC_L	---	---	---	17.58	3.33	20.91	30	PASS
		Ant1	5700	TPC_L	15.02	94.93	0.23	15.25	3.33	18.58	30	PASS
		Ant2	5700	TPC_L	15.6	94.93	0.23	15.83	3.33	19.16	30	PASS
		total	5700	TPC_L	---	---	---	18.56	3.33	21.89	30	PASS
	11N20MIMO	Ant1	5180	NA	12.52	95.05	0.22	12.74	3.33	16.07	23	PASS
		Ant2	5180	NA	15.46	95.05	0.22	15.68	3.33	19.01	23	PASS
		total	5180	NA	---	---	---	17.47	3.33	20.8	23	PASS
		Ant1	5240	NA	13.97	95.05	0.22	14.19	3.33	17.52	23	PASS
		Ant2	5240	NA	15.49	95.05	0.22	15.71	3.33	19.04	23	PASS
		total	5240	NA	---	---	---	18.03	3.33	21.36	23	PASS
		Ant1	5260	TPC_H	13.49	95.05	0.22	13.71	3.33	17.04	23	PASS
		Ant2	5260	TPC_H	15.61	95.05	0.22	15.83	3.33	19.16	23	PASS
		total	5260	TPC_H	---	---	---	17.91	3.33	21.24	23	PASS
		Ant1	5320	TPC_H	13.52	95.05	0.22	13.74	3.33	17.07	23	PASS
		Ant2	5320	TPC_H	14.47	95.05	0.22	14.69	3.33	18.02	23	PASS
		total	5320	TPC_H	---	---	---	17.25	3.33	20.58	23	PASS
		Ant1	5500	TPC_H	20.52	95.05	0.22	20.74	3.33	24.07	30	PASS
		Ant2	5500	TPC_H	21.78	95.05	0.22	22	3.33	25.33	30	PASS

		total	5500	TPC_H	---	---	---	24.43	3.33	27.76	30	PASS
		Ant1	5700	TPC_H	21.55	95.05	0.22	21.77	3.33	25.1	30	PASS
		Ant2	5700	TPC_H	21.58	95.05	0.22	21.8	3.33	25.13	30	PASS
		total	5700	TPC_H	---	---	---	24.8	3.33	28.13	30	PASS
		Ant1	5260	TPC_L	7.1	95.05	0.22	7.32	3.33	10.65	23	PASS
		Ant2	5260	TPC_L	8.99	95.05	0.22	9.21	3.33	12.54	23	PASS
		total	5260	TPC_L	---	---	---	11.37	3.33	14.7	23	PASS
		Ant1	5320	TPC_L	7.09	95.05	0.22	7.31	3.33	10.64	23	PASS
		Ant2	5320	TPC_L	8.14	95.05	0.22	8.36	3.33	11.69	23	PASS
		total	5320	TPC_L	---	---	---	10.87	3.33	14.2	23	PASS
		Ant1	5500	TPC_L	13.87	95.05	0.22	14.09	3.33	17.42	30	PASS
		Ant2	5500	TPC_L	15.18	95.05	0.22	15.4	3.33	18.73	30	PASS
		total	5500	TPC_L	---	---	---	17.81	3.33	21.14	30	PASS
		Ant1	5700	TPC_L	14.97	95.05	0.22	15.19	3.33	18.52	30	PASS
		Ant2	5700	TPC_L	15.37	95.05	0.22	15.59	3.33	18.92	30	PASS
		total	5700	TPC_L	---	---	---	18.4	3.33	21.73	30	PASS
	11N40MIMO	Ant1	5190	NA	13.77	90.38	0.44	14.21	3.33	17.54	23	PASS
		Ant2	5190	NA	16.88	90.38	0.44	17.32	3.33	20.65	23	PASS
		total	5190	NA	---	---	---	19.05	3.33	22.38	23	PASS
		Ant1	5230	NA	14.39	92.16	0.35	14.74	3.33	18.07	23	PASS
		Ant2	5230	NA	16.68	90.38	0.44	17.12	3.33	20.45	23	PASS
		total	5230	NA	---	---	---	19.1	3.33	22.43	23	PASS
		Ant1	5270	TPC_H	15.17	90.38	0.44	15.61	3.33	18.94	23	PASS
		Ant2	5270	TPC_H	15.59	90.38	0.44	16.03	3.33	19.36	23	PASS
		total	5270	TPC_H	---	---	---	18.83	3.33	22.16	23	PASS
		Ant1	5310	TPC_H	14.97	90.38	0.44	15.41	3.33	18.74	23	PASS
		Ant2	5310	TPC_H	15.54	89.52	0.48	16.02	3.33	19.35	23	PASS
		total	5310	TPC_H	---	---	---	18.74	3.33	22.07	23	PASS
		Ant1	5510	TPC_H	21.27	89.52	0.48	21.75	3.33	25.08	30	PASS
		Ant2	5510	TPC_H	22.41	90.38	0.44	22.85	3.33	26.18	30	PASS
		total	5510	TPC_H	---	---	---	25.34	3.33	28.67	30	PASS
		Ant1	5670	TPC_H	22.44	90.38	0.44	22.88	3.33	26.21	30	PASS
		Ant2	5670	TPC_H	22.54	90.38	0.44	22.98	3.33	26.31	30	PASS
		total	5670	TPC_H	---	---	---	25.94	3.33	29.27	30	PASS
		Ant1	5270	TPC_L	8.57	90.38	0.44	9.01	3.33	12.34	23	PASS
		Ant2	5270	TPC_L	9.12	90.38	0.44	9.56	3.33	12.89	23	PASS
		total	5270	TPC_L	---	---	---	12.3	3.33	15.63	23	PASS
		Ant1	5310	TPC_L	8.36	90.38	0.44	8.8	3.33	12.13	23	PASS
		Ant2	5310	TPC_L	9.05	89.52	0.48	9.53	3.33	12.86	23	PASS
		total	5310	TPC_L	---	---	---	12.19	3.33	15.52	23	PASS
		Ant1	5510	TPC_L	14.73	89.52	0.48	15.21	3.33	18.54	30	PASS
		Ant2	5510	TPC_L	15.88	90.38	0.44	16.32	3.33	19.65	30	PASS
		total	5510	TPC_L	---	---	---	18.81	3.33	22.14	30	PASS

		Ant1	5670	TPC_L	15.93	90.38	0.44	16.37	3.33	19.7	30	PASS
		Ant2	5670	TPC_L	16.08	90.38	0.44	16.52	3.33	19.85	30	PASS
		total	5670	TPC_L	---	---	---	19.45	3.33	22.78	30	PASS
11AC20MIMO		Ant1	5180	NA	12.03	95.05	0.22	12.25	3.33	15.58	23	PASS
		Ant2	5180	NA	15.2	95.05	0.22	15.42	3.33	18.75	23	PASS
		total	5180	NA	---	---	---	17.13	3.33	20.46	23	PASS
		Ant1	5240	NA	13.68	95.05	0.22	13.9	3.33	17.23	23	PASS
		Ant2	5240	NA	15.16	95.05	0.22	15.38	3.33	18.71	23	PASS
		total	5240	NA	---	---	---	17.71	3.33	21.04	23	PASS
		Ant1	5260	TPC_H	13.21	95.05	0.22	13.43	3.33	16.76	23	PASS
		Ant2	5260	TPC_H	15.23	95.05	0.22	15.45	3.33	18.78	23	PASS
		total	5260	TPC_H	---	---	---	17.57	3.33	20.9	23	PASS
		Ant1	5320	TPC_H	13.25	95.05	0.22	13.47	3.33	16.8	23	PASS
		Ant2	5320	TPC_H	14.41	95.05	0.22	14.63	3.33	17.96	23	PASS
		total	5320	TPC_H	---	---	---	17.1	3.33	20.43	23	PASS
		Ant1	5500	TPC_H	20.35	95.05	0.22	20.57	3.33	23.9	30	PASS
		Ant2	5500	TPC_H	21.89	95.05	0.22	22.11	3.33	25.44	30	PASS
		total	5500	TPC_H	---	---	---	24.41	3.33	27.74	30	PASS
		Ant1	5700	TPC_H	21.65	97.96	0.09	21.74	3.33	25.07	30	PASS
		Ant2	5700	TPC_H	22.08	97.96	0.09	22.17	3.33	25.5	30	PASS
		total	5700	TPC_H	---	---	---	24.97	3.33	28.3	30	PASS
		Ant1	5260	TPC_L	6.74	95.05	0.22	6.96	3.33	10.29	23	PASS
		Ant2	5260	TPC_L	8.68	95.05	0.22	8.9	3.33	12.23	23	PASS
		total	5260	TPC_L	---	---	---	11.05	3.33	14.38	23	PASS
		Ant1	5320	TPC_L	6.86	95.05	0.22	7.08	3.33	10.41	23	PASS
		Ant2	5320	TPC_L	7.95	95.05	0.22	8.17	3.33	11.5	23	PASS
		total	5320	TPC_L	---	---	---	10.67	3.33	14	23	PASS
		Ant1	5500	TPC_L	13.84	95.05	0.22	14.06	3.33	17.39	30	PASS
		Ant2	5500	TPC_L	15.35	95.05	0.22	15.57	3.33	18.9	30	PASS
		total	5500	TPC_L	---	---	---	17.89	3.33	21.22	30	PASS
		Ant1	5700	TPC_L	14.95	97.96	0.09	15.04	3.33	18.37	30	PASS
		Ant2	5700	TPC_L	15.5	97.96	0.09	15.59	3.33	18.92	30	PASS
		total	5700	TPC_L	---	---	---	18.33	3.33	21.66	30	PASS
11AC40MIMO		Ant1	5190	NA	13.99	96.94	0.13	14.12	3.33	17.45	23	PASS
		Ant2	5190	NA	16.77	96.94	0.13	16.9	3.33	20.23	23	PASS
		total	5190	NA	---	---	---	18.74	3.33	22.07	23	PASS
		Ant1	5230	NA	14.69	96.94	0.13	14.82	3.33	18.15	23	PASS
		Ant2	5230	NA	16.54	96.94	0.13	16.67	3.33	20	23	PASS
		total	5230	NA	---	---	---	18.85	3.33	22.18	23	PASS
		Ant1	5270	TPC_H	15.26	96.94	0.13	15.39	3.33	18.72	23	PASS
		Ant2	5270	TPC_H	16.2	96.94	0.13	16.33	3.33	19.66	23	PASS
		total	5270	TPC_H	---	---	---	18.9	3.33	22.23	23	PASS
		Ant1	5310	TPC_H	15.45	96.94	0.13	15.58	3.33	18.91	23	PASS

		Ant2	5310	TPC_H	15.88	96.94	0.13	16.01	3.33	19.34	23	PASS
		total	5310	TPC_H	---	---	---	18.81	3.33	22.14	23	PASS
		Ant1	5510	TPC_H	21.82	96.94	0.13	21.95	3.33	25.28	30	PASS
		Ant2	5510	TPC_H	22.95	96.94	0.13	23.08	3.33	26.41	30	PASS
		total	5510	TPC_H	---	---	---	25.56	3.33	28.89	30	PASS
		Ant1	5670	TPC_H	22.95	96.94	0.13	23.08	3.33	26.41	30	PASS
		Ant2	5670	TPC_H	22.96	96.94	0.13	23.09	3.33	26.42	30	PASS
		total	5670	TPC_H	---	---	---	26.1	3.33	29.43	30	PASS
		Ant1	5270	TPC_L	9.12	96.94	0.13	9.25	3.33	12.58	23	PASS
		Ant2	5270	TPC_L	9.72	96.94	0.13	9.85	3.33	13.18	23	PASS
		total	5270	TPC_L	---	---	---	12.57	3.33	15.9	23	PASS
		Ant1	5310	TPC_L	8.99	96.94	0.13	9.12	3.33	12.45	23	PASS
		Ant2	5310	TPC_L	9.26	96.94	0.13	9.39	3.33	12.72	23	PASS
		total	5310	TPC_L	---	---	---	12.27	3.33	15.6	23	PASS
		Ant1	5510	TPC_L	15.27	96.94	0.13	15.4	3.33	18.73	30	PASS
		Ant2	5510	TPC_L	16.42	96.94	0.13	16.55	3.33	19.88	30	PASS
		total	5510	TPC_L	---	---	---	19.02	3.33	22.35	30	PASS
		Ant1	5670	TPC_L	16.57	96.94	0.13	16.7	3.33	20.03	30	PASS
		Ant2	5670	TPC_L	16.55	96.94	0.13	16.68	3.33	20.01	30	PASS
		total	5670	TPC_L	---	---	---	19.7	3.33	23.03	30	PASS
	11AC80MIMO	Ant1	5210	NA	14.32	93.88	0.27	14.59	3.33	17.92	23	PASS
		Ant2	5210	NA	16.9	93.88	0.27	17.17	3.33	20.5	23	PASS
		total	5210	NA	---	---	---	19.08	3.33	22.41	23	PASS
		Ant1	5290	TPC_H	15.33	93.88	0.27	15.6	3.33	18.93	23	PASS
		Ant2	5290	TPC_H	16.25	93.88	0.27	16.52	3.33	19.85	23	PASS
		total	5290	TPC_H	---	---	---	19.09	3.33	22.42	23	PASS
		Ant1	5530	TPC_H	21.93	93.88	0.27	22.2	3.33	25.53	30	PASS
		Ant2	5530	TPC_H	22.88	93.88	0.27	23.15	3.33	26.48	30	PASS
		total	5530	TPC_H	---	---	---	25.71	3.33	29.04	30	PASS
		Ant1	5610	TPC_H	22.96	93.88	0.27	23.23	3.33	26.56	30	PASS
		Ant2	5610	TPC_H	22.71	93.88	0.27	22.98	3.33	26.31	30	PASS
		total	5610	TPC_H	---	---	---	26.12	3.33	29.45	30	PASS
		Ant1	5290	TPC_L	8.78	93.88	0.27	9.05	3.33	12.38	23	PASS
		Ant2	5290	TPC_L	9.88	93.88	0.27	10.15	3.33	13.48	23	PASS
		total	5290	TPC_L	---	---	---	12.64	3.33	15.97	23	PASS
		Ant1	5530	TPC_L	15.24	93.88	0.27	15.51	3.33	18.84	30	PASS
		Ant2	5530	TPC_L	16.37	93.88	0.27	16.64	3.33	19.97	30	PASS
		total	5530	TPC_L	---	---	---	19.12	3.33	22.45	30	PASS
		Ant1	5610	TPC_L	16.48	93.88	0.27	16.75	3.33	20.08	30	PASS
		Ant2	5610	TPC_L	16.06	93.88	0.27	16.33	3.33	19.66	30	PASS
		total	5610	TPC_L	---	---	---	19.56	3.33	22.89	30	PASS
	11AC160MIMO	Ant1	5250	TPC_H	14.27	89.29	0.49	14.76	3.33	18.09	23	PASS
		Ant2	5250	TPC_H	16.07	89.29	0.49	16.56	3.33	19.89	23	PASS

		total	5250	TPC_H	---	---	---	18.77	3.33	22.1	23	PASS
		Ant1	5570	TPC_H	22.26	89.29	0.49	22.75	3.33	26.08	30	PASS
		Ant2	5570	TPC_H	22.64	89.29	0.49	23.13	3.33	26.46	30	PASS
		total	5570	TPC_H	---	---	---	25.96	3.33	29.29	30	PASS
		Ant1	5250	TPC_L	7.94	89.29	0.49	8.43	3.33	11.76	23	PASS
		Ant2	5250	TPC_L	9.79	89.29	0.49	10.28	3.33	13.61	23	PASS
		total	5250	TPC_L	---	---	---	12.46	3.33	15.79	23	PASS
		Ant1	5570	TPC_L	15.79	89.29	0.49	16.28	3.33	19.61	30	PASS
		Ant2	5570	TPC_L	16.1	89.29	0.49	16.59	3.33	19.92	30	PASS
		total	5570	TPC_L	---	---	---	19.45	3.33	22.78	30	PASS
	11AX20MIMO	Ant1	5180	NA	14.09	97.39	0.11	14.2	3.33	17.53	23	PASS
		Ant2	5180	NA	16.89	97.39	0.11	17	3.33	20.33	23	PASS
		total	5180	NA	---	---	---	18.83	3.33	22.16	23	PASS
		Ant1	5240	NA	14.21	97.39	0.11	14.32	3.33	17.65	23	PASS
		Ant2	5240	NA	16.08	97.39	0.11	16.19	3.33	19.52	23	PASS
		total	5240	NA	---	---	---	18.36	3.33	21.69	23	PASS
		Ant1	5260	TPC_H	14.61	97.39	0.11	14.72	3.33	18.05	23	PASS
		Ant2	5260	TPC_H	16.42	97.39	0.11	16.53	3.33	19.86	23	PASS
		total	5260	TPC_H	---	---	---	18.73	3.33	22.06	23	PASS
		Ant1	5320	TPC_H	13.44	97.39	0.11	13.55	3.33	16.88	23	PASS
		Ant2	5320	TPC_H	15.43	97.39	0.11	15.54	3.33	18.87	23	PASS
		total	5320	TPC_H	---	---	---	17.67	3.33	21	23	PASS
		Ant1	5500	TPC_H	20.72	97.39	0.11	20.83	3.33	24.16	30	PASS
		Ant2	5500	TPC_H	22.37	97.39	0.11	22.48	3.33	25.81	30	PASS
		total	5500	TPC_H	---	---	---	24.74	3.33	28.07	30	PASS
		Ant1	5700	TPC_H	21.74	97.39	0.11	21.85	3.33	25.18	30	PASS
		Ant2	5700	TPC_H	21.9	97.39	0.11	22.01	3.33	25.34	30	PASS
		total	5700	TPC_H	---	---	---	24.94	3.33	28.27	30	PASS
		Ant1	5260	TPC_L	8.1	97.39	0.11	8.21	3.33	11.54	23	PASS
		Ant2	5260	TPC_L	9.93	97.39	0.11	10.04	3.33	13.37	23	PASS
		total	5260	TPC_L	---	---	---	12.23	3.33	15.56	23	PASS
		Ant1	5320	TPC_L	7.09	97.39	0.11	7.2	3.33	10.53	23	PASS
		Ant2	5320	TPC_L	8.91	97.39	0.11	9.02	3.33	12.35	23	PASS
		total	5320	TPC_L	---	---	---	11.22	3.33	14.55	23	PASS
		Ant1	5500	TPC_L	14.39	97.39	0.11	14.5	3.33	17.83	30	PASS
		Ant2	5500	TPC_L	15.91	97.39	0.11	16.02	3.33	19.35	30	PASS
		total	5500	TPC_L	---	---	---	18.33	3.33	21.66	30	PASS
		Ant1	5700	TPC_L	15.07	97.39	0.11	15.18	3.33	18.51	30	PASS
		Ant2	5700	TPC_L	15.45	97.39	0.11	15.56	3.33	18.89	30	PASS
		total	5700	TPC_L	---	---	---	18.38	3.33	21.71	30	PASS
	11AX40MIMO	Ant1	5190	NA	13.91	95.12	0.22	14.13	3.33	17.46	23	PASS
		Ant2	5190	NA	16.94	95.12	0.22	17.16	3.33	20.49	23	PASS
		total	5190	NA	---	---	---	18.91	3.33	22.24	23	PASS

		Ant1	5230	NA	14.74	95.12	0.22	14.96	3.33	18.29	23	PASS
		Ant2	5230	NA	16.86	95.12	0.22	17.08	3.33	20.41	23	PASS
		total	5230	NA	---	---	---	19.16	3.33	22.49	23	PASS
		Ant1	5270	TPC_H	15.13	95.12	0.22	15.35	3.33	18.68	23	PASS
		Ant2	5270	TPC_H	16.07	95.12	0.22	16.29	3.33	19.62	23	PASS
		total	5270	TPC_H	---	---	---	18.86	3.33	22.19	23	PASS
		Ant1	5310	TPC_H	14.96	95.12	0.22	15.18	3.33	18.51	23	PASS
		Ant2	5310	TPC_H	15.72	95.12	0.22	15.94	3.33	19.27	23	PASS
		total	5310	TPC_H	---	---	---	18.59	3.33	21.92	23	PASS
		Ant1	5510	TPC_H	21.45	95.12	0.22	21.67	3.33	25	30	PASS
		Ant2	5510	TPC_H	22.62	95.12	0.22	22.84	3.33	26.17	30	PASS
		total	5510	TPC_H	---	---	---	25.3	3.33	28.63	30	PASS
		Ant1	5670	TPC_H	23.23	95.12	0.22	23.45	3.33	26.78	30	PASS
		Ant2	5670	TPC_H	22.96	95.12	0.22	23.18	3.33	26.51	30	PASS
		total	5670	TPC_H	---	---	---	26.32	3.33	29.65	30	PASS
		Ant1	5270	TPC_L	8.48	95.12	0.22	8.7	3.33	12.03	23	PASS
		Ant2	5270	TPC_L	9.71	95.12	0.22	9.93	3.33	13.26	23	PASS
		total	5270	TPC_L	---	---	---	12.37	3.33	15.7	23	PASS
		Ant1	5310	TPC_L	8.4	95.12	0.22	8.62	3.33	11.95	23	PASS
		Ant2	5310	TPC_L	9.27	95.12	0.22	9.49	3.33	12.82	23	PASS
		total	5310	TPC_L	---	---	---	12.08	3.33	15.41	23	PASS
		Ant1	5510	TPC_L	15.07	95.12	0.22	15.29	3.33	18.62	30	PASS
		Ant2	5510	TPC_L	16.2	95.12	0.22	16.42	3.33	19.75	30	PASS
		total	5510	TPC_L	---	---	---	18.9	3.33	22.23	30	PASS
		Ant1	5670	TPC_L	16.54	95.12	0.22	16.76	3.33	20.09	30	PASS
		Ant2	5670	TPC_L	16.29	95.12	0.22	16.51	3.33	19.84	30	PASS
		total	5670	TPC_L	---	---	---	19.64	3.33	22.97	30	PASS
	11AX80MIMO	Ant1	5210	NA	12.89	90.91	0.41	13.3	3.33	16.63	23	PASS
		Ant2	5210	NA	15.48	90.91	0.41	15.89	3.33	19.22	23	PASS
		total	5210	NA	---	---	---	17.79	3.33	21.12	23	PASS
		Ant1	5290	TPC_H	14.25	90.91	0.41	14.66	3.33	17.99	23	PASS
		Ant2	5290	TPC_H	15.28	90.91	0.41	15.69	3.33	19.02	23	PASS
		total	5290	TPC_H	---	---	---	18.22	3.33	21.55	23	PASS
		Ant1	5530	TPC_H	21.54	90.91	0.41	21.95	3.33	25.28	30	PASS
		Ant2	5530	TPC_H	22.55	90.91	0.41	22.96	3.33	26.29	30	PASS
		total	5530	TPC_H	---	---	---	25.49	3.33	28.82	30	PASS
		Ant1	5610	TPC_H	22.42	90.91	0.41	22.83	3.33	26.16	30	PASS
		Ant2	5610	TPC_H	22.4	90.91	0.41	22.81	3.33	26.14	30	PASS
		total	5610	TPC_H	---	---	---	25.83	3.33	29.16	30	PASS
		Ant1	5290	TPC_L	7.58	90.91	0.41	7.99	3.33	11.32	23	PASS
		Ant2	5290	TPC_L	8.84	90.91	0.41	9.25	3.33	12.58	23	PASS
		total	5290	TPC_L	---	---	---	11.68	3.33	15.01	23	PASS
		Ant1	5530	TPC_L	15.1	90.91	0.41	15.51	3.33	18.84	30	PASS

		Ant2	5530	TPC_L	16.11	90.91	0.41	16.52	3.33	19.85	30	PASS
		total	5530	TPC_L	---	---	---	19.05	3.33	22.38	30	PASS
		Ant1	5610	TPC_L	16	90.91	0.41	16.41	3.33	19.74	30	PASS
		Ant2	5610	TPC_L	15.97	90.91	0.41	16.38	3.33	19.71	30	PASS
		total	5610	TPC_L	---	---	---	19.41	3.33	22.74	30	PASS
	11AX160MIMO	Ant1	5250	TPC_H	13.75	88.89	0.51	14.26	3.33	17.59	23	PASS
		Ant2	5250	TPC_H	15.76	88.89	0.51	16.27	3.33	19.6	23	PASS
		total	5250	TPC_H	---	---	---	18.39	3.33	21.72	23	PASS
		Ant1	5570	TPC_H	22.46	88.89	0.51	22.97	3.33	26.3	30	PASS
		Ant2	5570	TPC_H	22.84	88.89	0.51	23.35	3.33	26.68	30	PASS
		total	5570	TPC_H	---	---	---	26.17	3.33	29.5	30	PASS
		Ant1	5250	TPC_L	7.2	88.89	0.51	7.71	3.33	11.04	23	PASS
		Ant2	5250	TPC_L	9.32	88.89	0.51	9.83	3.33	13.16	23	PASS
		total	5250	TPC_L	---	---	---	11.91	3.33	15.24	23	PASS
		Ant1	5570	TPC_L	16.12	88.89	0.51	16.63	3.33	19.96	30	PASS
		Ant2	5570	TPC_L	16.26	88.89	0.51	16.77	3.33	20.1	30	PASS
		total	5570	TPC_L	---	---	---	19.71	3.33	23.04	30	PASS

(Note: The Duty Cycle Factor and antenna gain are compensated in the data.)

3.4 Power Density (Refer to clause 4.2.3)

3.4.1 Limit

Power Density Limit	
Frequency Range (MHz)	Mean e.i.r.p. Density Limit (dBm/MHz)
	with TPC
5150-5350	10
5470-5725	17

3.4.2 Test Peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Record PC	Lenovo	M4000q	N/A

3.4.3 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ● : Test ○ : No Test	

a) The EUT shall be connected to spectrum analyzer and use the following settings:

Start Frequency	lower band edge of applicable sub-band (e.g. 5150 MHz or 5470 MHz)
Stop Frequency:	upper band edge of applicable sub-band (e.g. 5350 MHz or 5725 MHz)
RBW	10KHz
VBW	30KHz
Sweep Point	>20 000 (for 5150 MHz to 5350 MHz) >25 500 (for 5470 MHz to 5725 MHz)
Detector Mode	RMS
Trace Mode	Max Hold
Sweep Time	30s

b) Wait for the trace to be stabilized. Save the (trace) data set to a file.

c) Repeat step a to step b for each of the transmit ports. For each sampling point (frequency domain), add up the coincident power values (in mW) for the different transmit chains and use this as the new data set.

d) Add up the values of power for all the samples in the file using the formula below:

$$P_{\text{Sum}} = \sum_{n=1}^k P_{\text{sample}}(n)$$

with 'k' being the total number of samples and 'n' the actual sample number

e) Normalize the individual values for power (in dBm) so that the sum is equal to the RF Output Power (e.i.r.p.) (PH) measured in clause 5.4.4.2.1.1 for this sub-band. The following formulas can be used:

$$C_{\text{Corr}} = P_{\text{Sum}} - P_{\text{Heirp}}$$

$$P_{\text{Samplecorr}}(n) = P_{\text{Sample}}(n) - C_{\text{Corr}}$$

with 'n' being the actual sample number

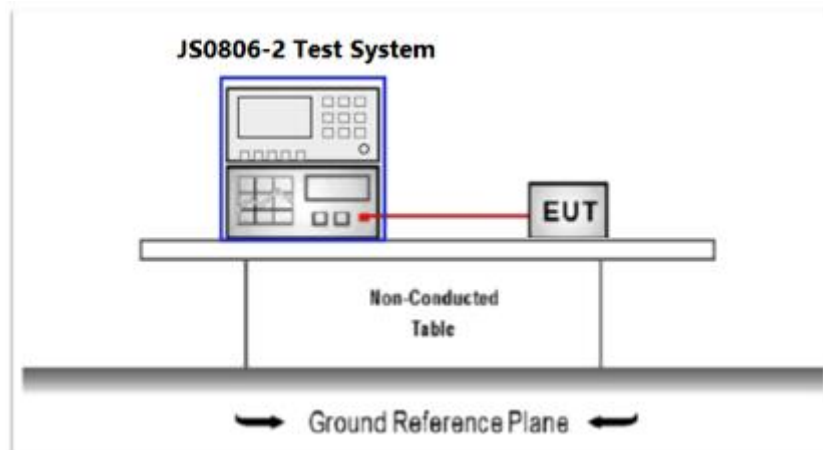
f) Starting from the first sample $P_{\text{Samplecorr}}(n)$ in the file (lowest frequency), add up the power (in mW) of the following samples representing a 1 MHz segment and record the results for power and position (i.e. sample #1 to sample #100). This is the Power Density (e.i.r.p.) for the first 1 MHz segment which shall be saved.

g) Shift the start point of the samples added up in step 5 by one sample and repeat the procedure in step f (i.e. sample #2 to sample #101).

h) Repeat step g until the end of the data set and save the radiated Power Density values for each of the 1 MHz segments.

i) From all the saved results, the highest value is the maximum Power Density (e.i.r.p.) for the EUT. This value shall be recorded in the test report.

3.4.4 Test Configuration



3.4.5 Test Result of Power Density

3.4.5.1 Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	DC Factor [dB]	PD [dBm/MHz]	Gain [dBi]	EIRP PSD [dBm/MHz]	Limit [dBm]	Verdict
11A-CDD	Ant1	5180	-3.65	0.23	-3.42	3.33	-0.09	10	PASS
	Ant2	5180	1.43	0.23	1.66	3.33	4.99	10	PASS
	total	5180	---	---	2.83	3.33	9.16	10	PASS
	Ant1	5240	-0.77	0.23	-0.54	3.33	2.79	10	PASS
	Ant2	5240	0.97	0.23	1.20	3.33	4.53	10	PASS
	total	5240	---	---	3.43	3.33	9.76	10	PASS
	Ant1	5260	-0.99	0.23	-0.76	3.33	2.57	10	PASS
	Ant2	5260	0.73	0.23	0.96	3.33	4.29	10	PASS
	total	5260	---	---	3.19	3.33	9.52	10	PASS
	Ant1	5320	-0.81	0.23	-0.58	3.33	2.75	10	PASS
	Ant2	5320	0.56	0.23	0.79	3.33	4.12	10	PASS
	total	5320	---	---	3.17	3.33	9.50	10	PASS
	Ant1	5500	6.37	0.23	6.60	3.33	9.93	17	PASS
	Ant2	5500	7.81	0.23	8.04	3.33	11.37	17	PASS
	total	5500	---	---	10.39	3.33	16.72	17	PASS
	Ant1	5700	6.79	0.23	7.02	3.33	10.35	17	PASS
	Ant2	5700	7.61	0.23	7.84	3.33	11.17	17	PASS
	total	5700	---	---	10.46	3.33	16.79	17	PASS
11N20MIMO	Ant1	5180	-2.21	0.22	-1.99	3.33	1.34	10	PASS
	Ant2	5180	0.96	0.22	1.18	3.33	4.51	10	PASS
	total	5180	---	---	2.89	3.33	9.22	10	PASS
	Ant1	5240	-1.01	0.22	-0.79	3.33	2.54	10	PASS
	Ant2	5240	1.04	0.22	1.26	3.33	4.59	10	PASS
	total	5240	---	---	3.37	3.33	9.70	10	PASS
	Ant1	5260	-0.84	0.22	-0.62	3.33	2.71	10	PASS
	Ant2	5260	0.80	0.22	1.02	3.33	4.35	10	PASS
	total	5260	---	---	3.29	3.33	9.62	10	PASS
	Ant1	5320	-0.89	0.22	-0.67	3.33	2.66	10	PASS
	Ant2	5320	0.76	0.22	0.98	3.33	4.31	10	PASS
	total	5320	---	---	3.24	3.33	9.57	10	PASS
	Ant1	5500	6.38	0.22	6.60	3.33	9.93	17	PASS
	Ant2	5500	8.10	0.22	8.32	3.33	11.65	17	PASS
	total	5500	---	---	10.55	3.33	16.88	17	PASS
	Ant1	5700	6.70	0.22	6.92	3.33	10.25	17	PASS
	Ant2	5700	7.37	0.22	7.59	3.33	10.92	17	PASS
	total	5700	---	---	10.28	3.33	16.61	17	PASS
11N40MIMO	Ant1	5190	-3.90	0.44	-3.46	3.33	-0.13	10	PASS
	Ant2	5190	-0.68	0.44	-0.24	3.33	3.09	10	PASS

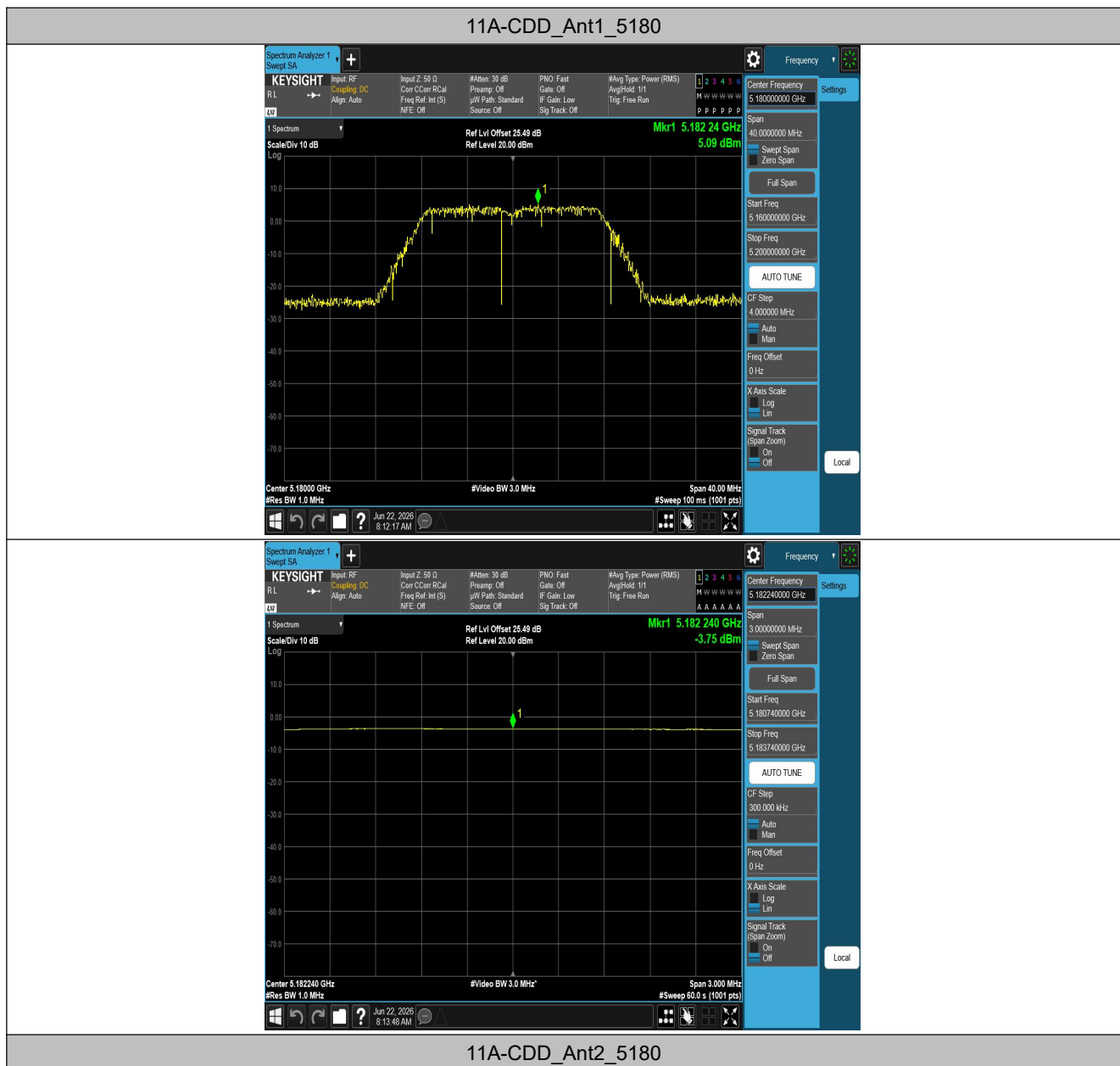
	total	5190	---	---	1.45	3.33	7.78	10	PASS
	Ant1	5230	-3.56	0.35	-3.21	3.33	0.12	10	PASS
	Ant2	5230	-0.93	0.44	-0.49	3.33	2.84	10	PASS
	total	5230	---	---	1.37	3.33	7.70	10	PASS
	Ant1	5270	-2.50	0.44	-2.06	3.33	1.27	10	PASS
	Ant2	5270	-1.63	0.44	-1.19	3.33	2.14	10	PASS
	total	5270	---	---	1.41	3.33	7.74	10	PASS
	Ant1	5310	-2.71	0.44	-2.27	3.33	1.06	10	PASS
	Ant2	5310	-1.87	0.48	-1.39	3.33	1.94	10	PASS
	total	5310	---	---	1.20	3.33	7.53	10	PASS
	Ant1	5510	4.25	0.48	4.73	3.33	8.06	17	PASS
	Ant2	5510	5.20	0.44	5.64	3.33	8.97	17	PASS
	total	5510	---	---	8.22	3.33	14.55	17	PASS
	Ant1	5670	4.42	0.44	4.86	3.33	8.19	17	PASS
	Ant2	5670	4.65	0.44	5.09	3.33	8.42	17	PASS
	total	5670	---	---	7.99	3.33	14.32	17	PASS
11AC20MIMO	Ant1	5180	-2.22	0.22	-2.00	3.33	1.33	10	PASS
	Ant2	5180	0.87	0.22	1.09	3.33	4.42	10	PASS
	total	5180	---	---	2.82	3.33	9.15	10	PASS
	Ant1	5240	-1.05	0.22	-0.83	3.33	2.50	10	PASS
	Ant2	5240	0.90	0.22	1.12	3.33	4.45	10	PASS
	total	5240	---	---	3.26	3.33	9.59	10	PASS
	Ant1	5260	-1.00	0.22	-0.78	3.33	2.55	10	PASS
	Ant2	5260	0.92	0.22	1.14	3.33	4.47	10	PASS
	total	5260	---	---	3.30	3.33	9.63	10	PASS
	Ant1	5320	-0.90	0.22	-0.68	3.33	2.65	10	PASS
	Ant2	5320	0.72	0.22	0.94	3.33	4.27	10	PASS
	total	5320	---	---	3.22	3.33	9.55	10	PASS
	Ant1	5500	5.74	0.22	5.96	3.33	9.29	17	PASS
	Ant2	5500	7.85	0.22	8.07	3.33	11.40	17	PASS
	total	5500	---	---	10.15	3.33	16.48	17	PASS
	Ant1	5700	6.41	0.09	6.50	3.33	9.83	17	PASS
	Ant2	5700	7.03	0.09	7.12	3.33	10.45	17	PASS
	total	5700	---	---	9.83	3.33	16.16	17	PASS
11AC40MIMO	Ant1	5190	-4.33	0.13	-4.20	3.33	-0.87	10	PASS
	Ant2	5190	-1.20	0.13	-1.07	3.33	2.26	10	PASS
	total	5190	---	---	0.65	3.33	6.98	10	PASS
	Ant1	5230	-3.36	0.13	-3.23	3.33	0.10	10	PASS
	Ant2	5230	-1.50	0.13	-1.37	3.33	1.96	10	PASS
	total	5230	---	---	0.81	3.33	7.14	10	PASS
	Ant1	5270	-2.43	0.13	-2.30	3.33	1.03	10	PASS
	Ant2	5270	-1.31	0.13	-1.18	3.33	2.15	10	PASS
	total	5270	---	---	1.31	3.33	7.64	10	PASS
	Ant1	5310	-2.40	0.13	-2.27	3.33	1.06	10	PASS

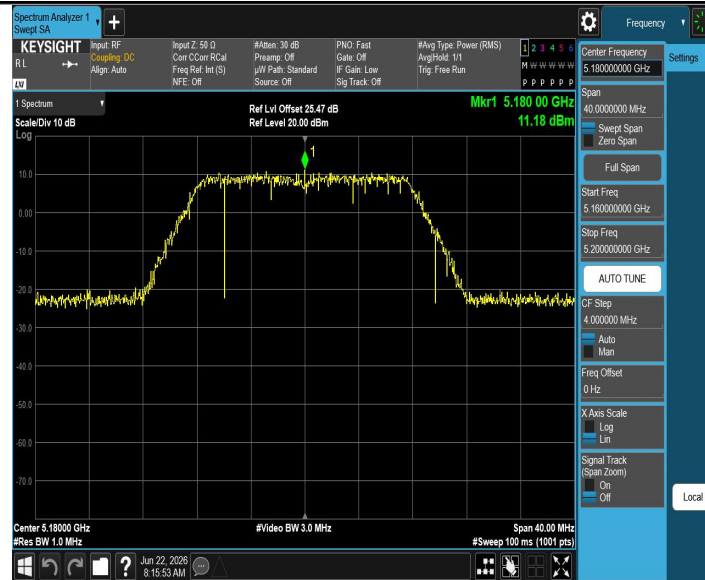
	Ant2	5310	-1.66	0.13	-1.53	3.33	1.80	10	PASS
	total	5310	---	---	1.13	3.33	7.46	10	PASS
	Ant1	5510	4.09	0.13	4.22	3.33	7.55	17	PASS
	Ant2	5510	5.42	0.13	5.55	3.33	8.88	17	PASS
	total	5510	---	---	7.95	3.33	14.28	17	PASS
	Ant1	5670	4.61	0.13	4.74	3.33	8.07	17	PASS
	Ant2	5670	4.95	0.13	5.08	3.33	8.41	17	PASS
	total	5670	---	---	7.92	3.33	14.25	17	PASS
11AC80MIMO	Ant1	5210	-6.26	0.27	-5.99	3.33	-2.66	10	PASS
	Ant2	5210	-3.73	0.27	-3.46	3.33	-0.13	10	PASS
	total	5210	---	---	-1.53	3.33	4.80	10	PASS
	Ant1	5290	-4.98	0.27	-4.71	3.33	-1.38	10	PASS
	Ant2	5290	-3.77	0.27	-3.50	3.33	-0.17	10	PASS
	total	5290	---	---	-1.05	3.33	5.28	10	PASS
	Ant1	5530	1.31	0.27	1.58	3.33	4.91	17	PASS
	Ant2	5530	2.67	0.27	2.94	3.33	6.27	17	PASS
	total	5530	---	---	5.32	3.33	11.65	17	PASS
	Ant1	5610	1.88	0.27	2.15	3.33	5.48	17	PASS
	Ant2	5610	1.51	0.27	1.78	3.33	5.11	17	PASS
	total	5610	---	---	4.98	3.33	11.31	17	PASS
11AC160MIMO	Ant1	5250	-9.37	0.49	-8.88	3.33	-5.55	10	PASS
	Ant2	5250	-7.46	0.49	-6.97	3.33	-3.64	10	PASS
	total	5250	---	---	-4.81	3.33	1.52	10	PASS
	Ant1	5570	-1.01	0.49	-0.52	3.33	2.81	17	PASS
	Ant2	5570	-0.65	0.49	-0.16	3.33	3.17	17	PASS
	total	5570	---	---	2.67	3.33	9.00	17	PASS
11AX20MIMO	Ant1	5180	-1.15	0.11	-1.04	3.33	2.29	10	PASS
	Ant2	5180	1.51	0.11	1.62	3.33	4.95	10	PASS
	total	5180	---	---	3.50	3.33	9.83	10	PASS
	Ant1	5240	-1.13	0.11	-1.02	3.33	2.31	10	PASS
	Ant2	5240	1.12	0.11	1.23	3.33	4.56	10	PASS
	total	5240	---	---	3.26	3.33	9.59	10	PASS
	Ant1	5260	-0.57	0.11	-0.46	3.33	2.87	10	PASS
	Ant2	5260	1.18	0.11	1.29	3.33	4.62	10	PASS
	total	5260	---	---	3.51	3.33	9.84	10	PASS
	Ant1	5320	-0.98	0.11	-0.87	3.33	2.46	10	PASS
	Ant2	5320	0.98	0.11	1.09	3.33	4.42	10	PASS
	total	5320	---	---	3.23	3.33	9.56	10	PASS
	Ant1	5500	6.10	0.11	6.21	3.33	9.54	17	PASS
	Ant2	5500	7.61	0.11	7.72	3.33	11.05	17	PASS
	total	5500	---	---	10.04	3.33	16.37	17	PASS
	Ant1	5700	6.83	0.11	6.94	3.33	10.27	17	PASS
	Ant2	5700	7.39	0.11	7.50	3.33	10.83	17	PASS
	total	5700	---	---	10.24	3.33	16.57	17	PASS

11AX40MIMO	Ant1	5190	-3.63	0.22	-3.41	3.33	-0.08	10	PASS
	Ant2	5190	-0.47	0.22	-0.25	3.33	3.08	10	PASS
	total	5190	---	---	1.46	3.33	7.79	10	PASS
	Ant1	5230	-3.18	0.22	-2.96	3.33	0.37	10	PASS
	Ant2	5230	-0.52	0.22	-0.30	3.33	3.03	10	PASS
	total	5230	---	---	1.58	3.33	7.91	10	PASS
	Ant1	5270	-2.49	0.22	-2.27	3.33	1.06	10	PASS
	Ant2	5270	-1.35	0.22	-1.13	3.33	2.20	10	PASS
	total	5270	---	---	1.35	3.33	7.68	10	PASS
	Ant1	5310	-2.49	0.22	-2.27	3.33	1.06	10	PASS
	Ant2	5310	-1.56	0.22	-1.34	3.33	1.99	10	PASS
	total	5310	---	---	1.23	3.33	7.56	10	PASS
	Ant1	5510	4.22	0.22	4.44	3.33	7.77	17	PASS
	Ant2	5510	5.38	0.22	5.60	3.33	8.93	17	PASS
	total	5510	---	---	8.07	3.33	14.40	17	PASS
	Ant1	5670	4.89	0.22	5.11	3.33	8.44	17	PASS
	Ant2	5670	5.02	0.22	5.24	3.33	8.57	17	PASS
	total	5670	---	---	8.19	3.33	14.52	17	PASS
11AX80MIMO	Ant1	5210	-8.85	0.41	-8.44	3.33	-5.11	10	PASS
	Ant2	5210	-5.34	0.41	-4.93	3.33	-1.60	10	PASS
	total	5210	---	---	-3.33	3.33	3.00	10	PASS
	Ant1	5290	-6.67	0.41	-6.26	3.33	-2.93	10	PASS
	Ant2	5290	-5.61	0.41	-5.20	3.33	-1.87	10	PASS
	total	5290	---	---	-2.69	3.33	3.64	10	PASS
	Ant1	5530	0.07	0.41	0.48	3.33	3.81	17	PASS
	Ant2	5530	1.67	0.41	2.08	3.33	5.41	17	PASS
	total	5530	---	---	4.36	3.33	10.69	17	PASS
	Ant1	5610	1.27	0.41	1.68	3.33	5.01	17	PASS
	Ant2	5610	1.51	0.41	1.92	3.33	5.25	17	PASS
	total	5610	---	---	4.81	3.33	11.14	17	PASS
11AX160MIMO	Ant1	5250	-10.73	0.51	-10.22	3.33	-6.89	10	PASS
	Ant2	5250	-8.71	0.51	-8.20	3.33	-4.87	10	PASS
	total	5250	---	---	-6.08	3.33	0.25	10	PASS
	Ant1	5570	-1.06	0.51	-0.55	3.33	2.78	17	PASS
	Ant2	5570	-1.10	0.51	-0.59	3.33	2.74	17	PASS
	total	5570	---	---	2.44	3.33	8.77	17	PASS

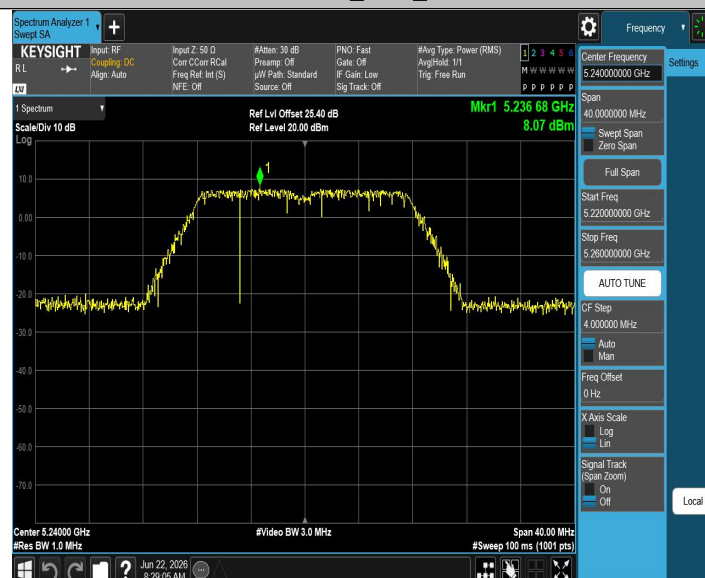
(Note: The Duty Cycle Factor and antenna gain are compensated in the data.)

3.4.5.2 Test Graphs



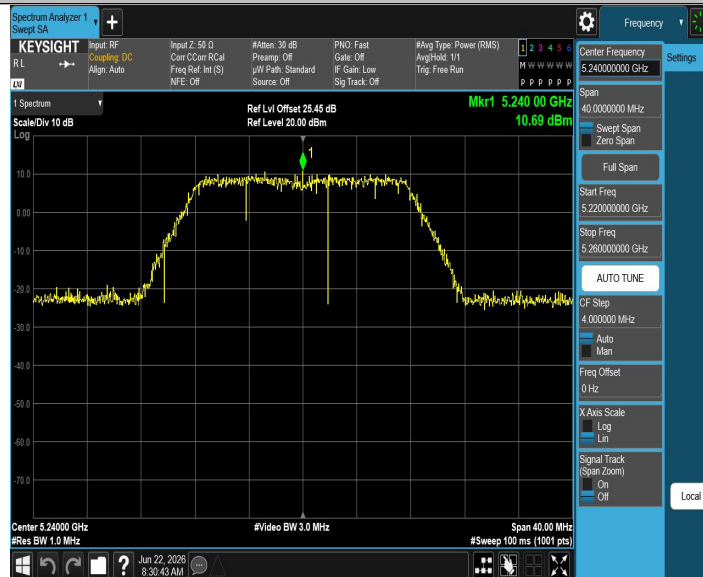


11A-CDD_Ant1_5240

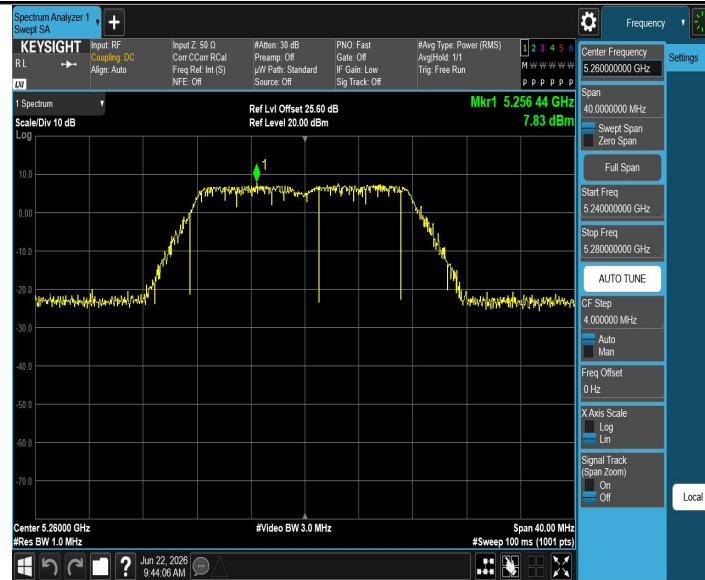




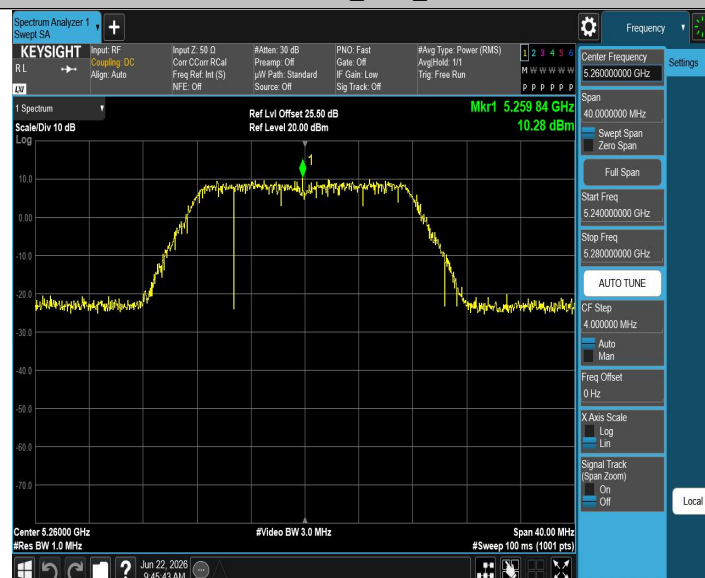
11A-CDD_Ant2_5240

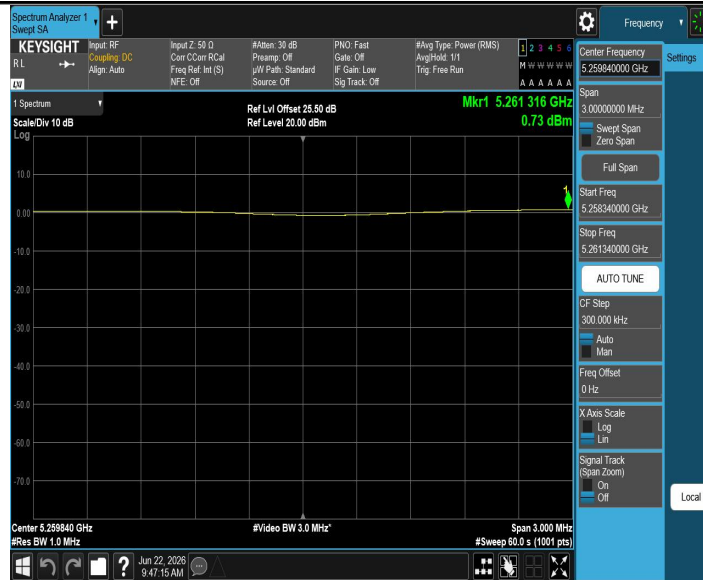


11A-CDD_Ant1_5260

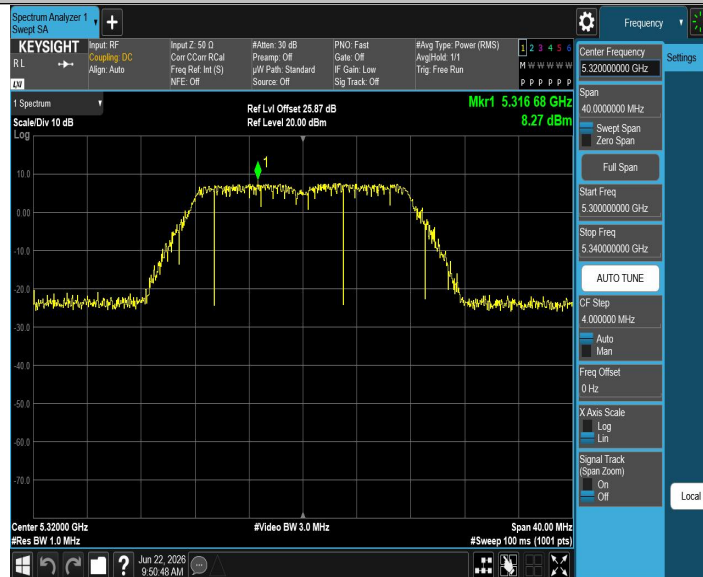


11A-CDD_Ant2_5260

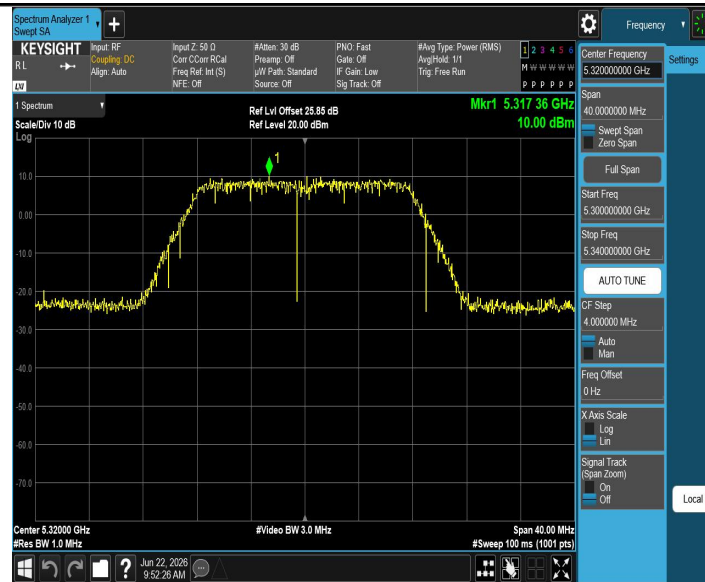




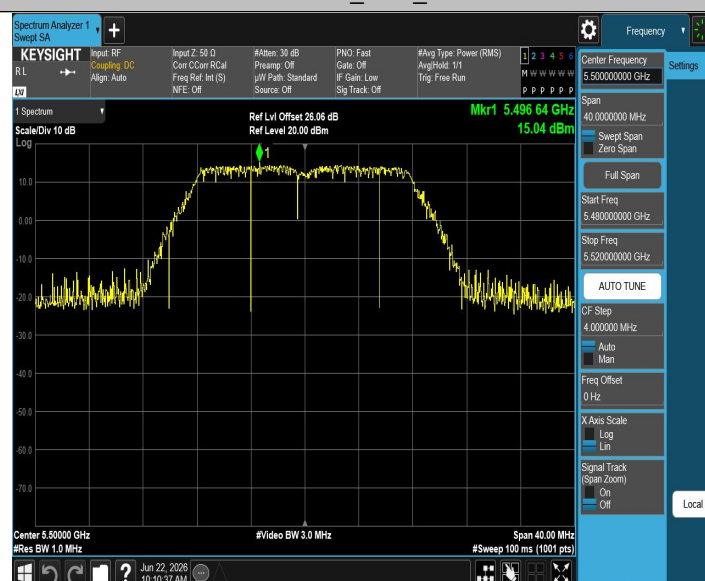
11A-CDD_Ant1_5320



11A-CDD_Ant2_5320

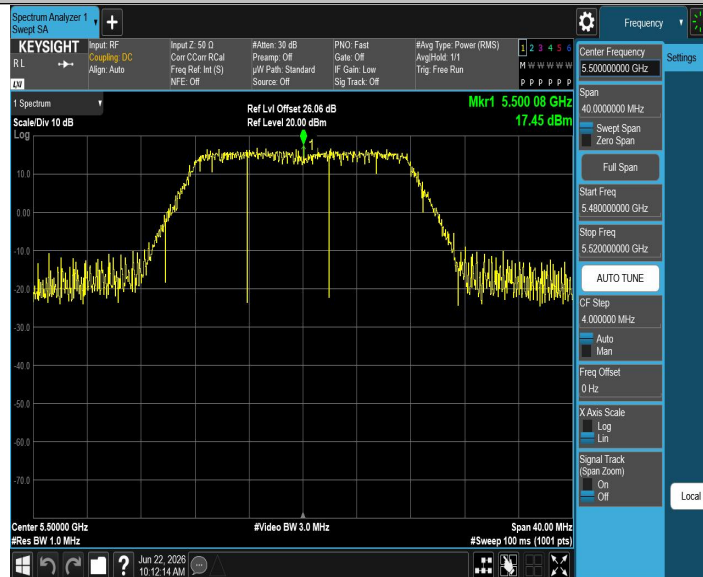


11A-CDD_Ant1_5500

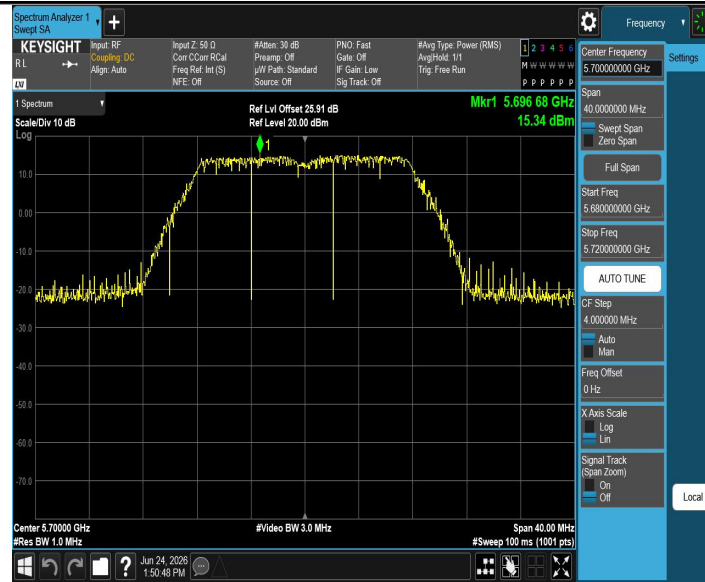




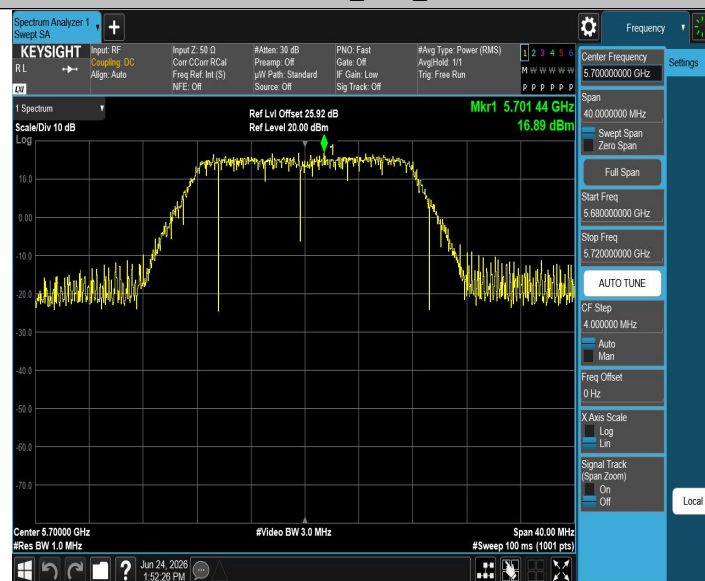
11A-CDD_Ant2_5500

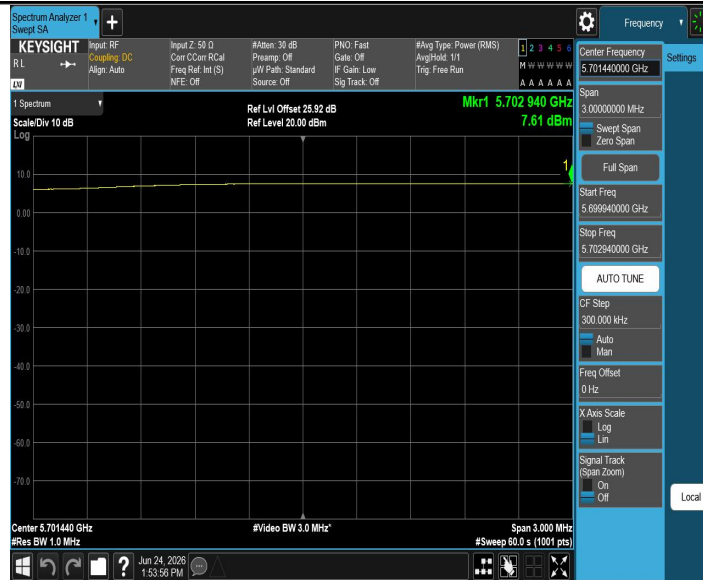


11A-CDD_Ant1_5700

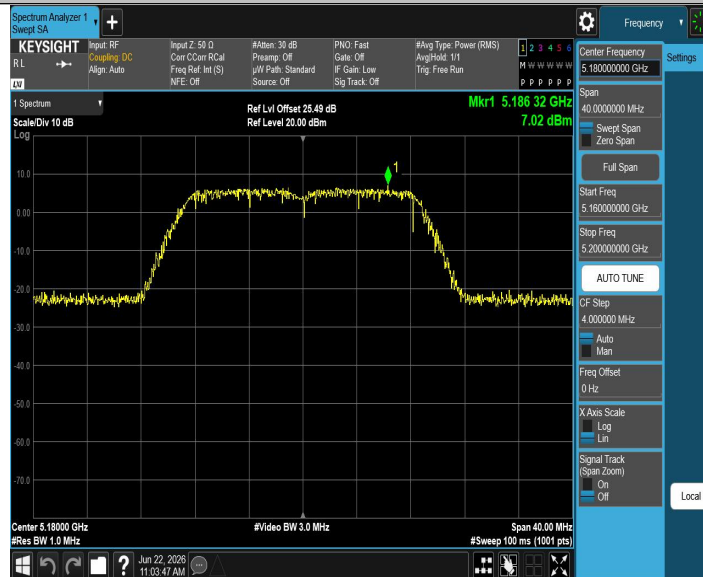


11A-CDD_Ant2_5700

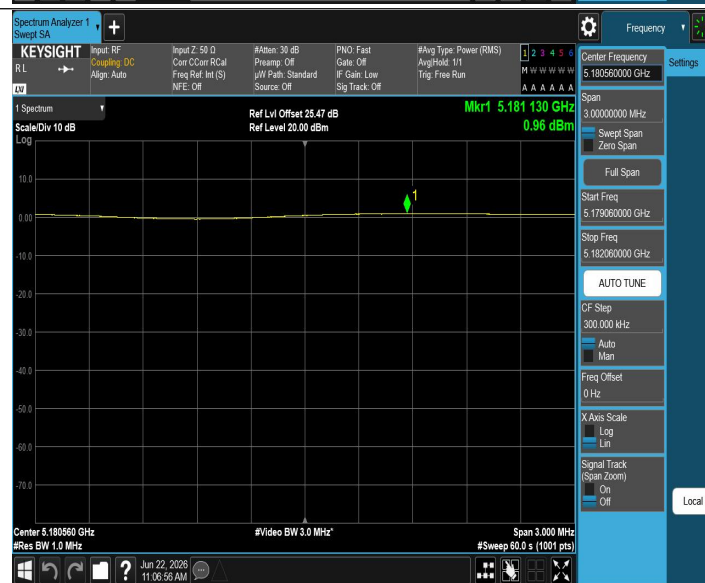
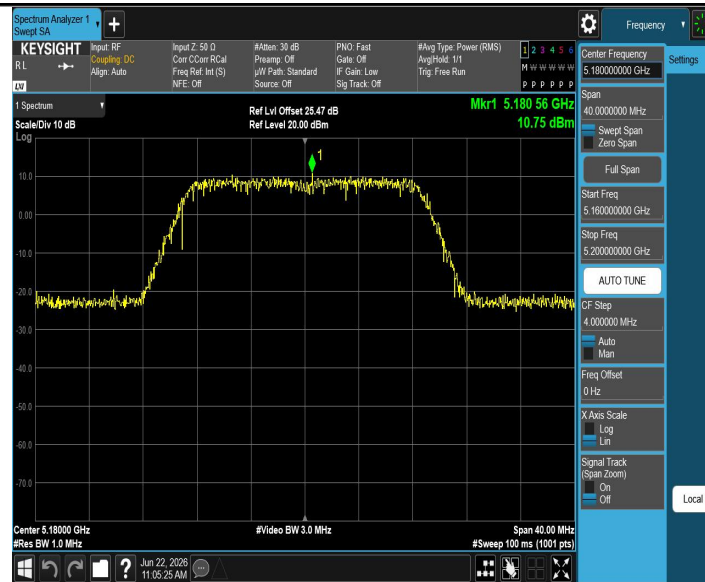




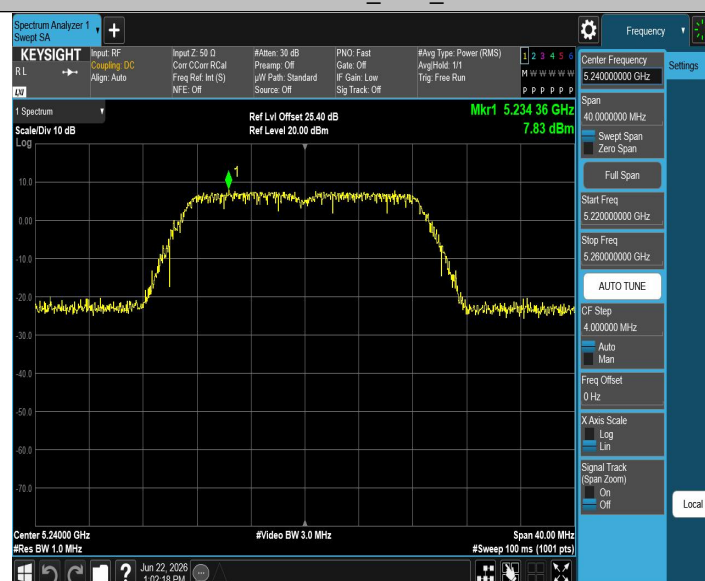
11N20MIMO_Ant1_5180



11N20MIMO_Ant2_5180

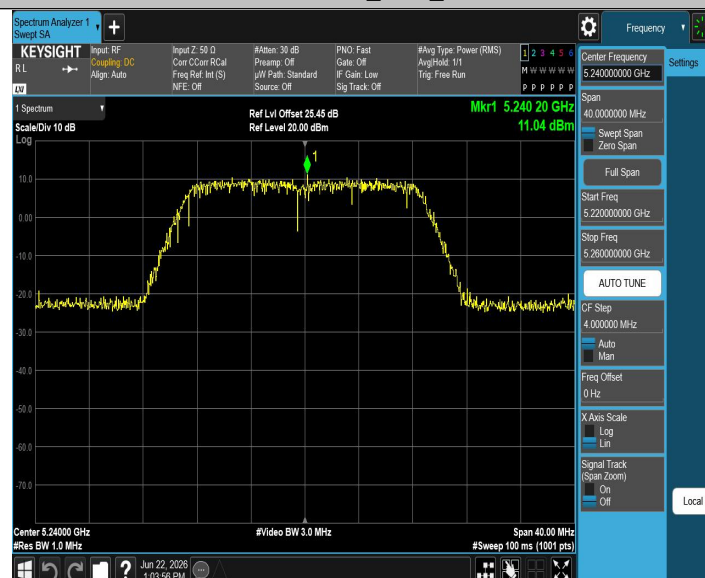


11N20MIMO_Ant1_5240

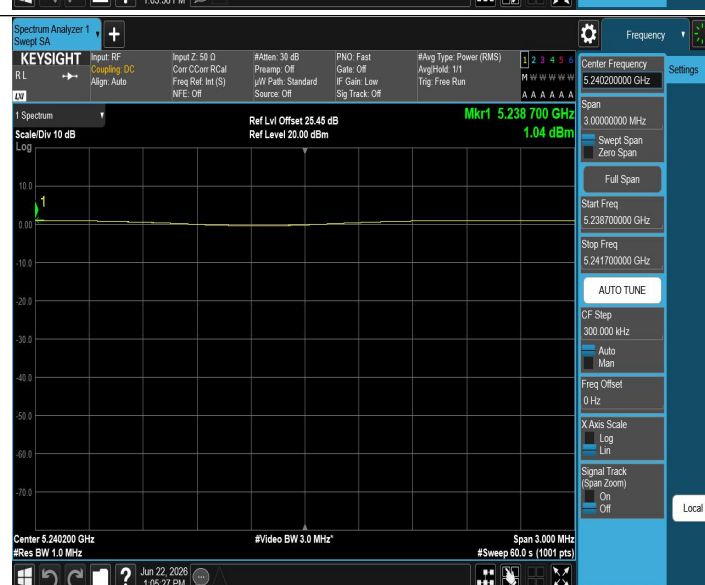




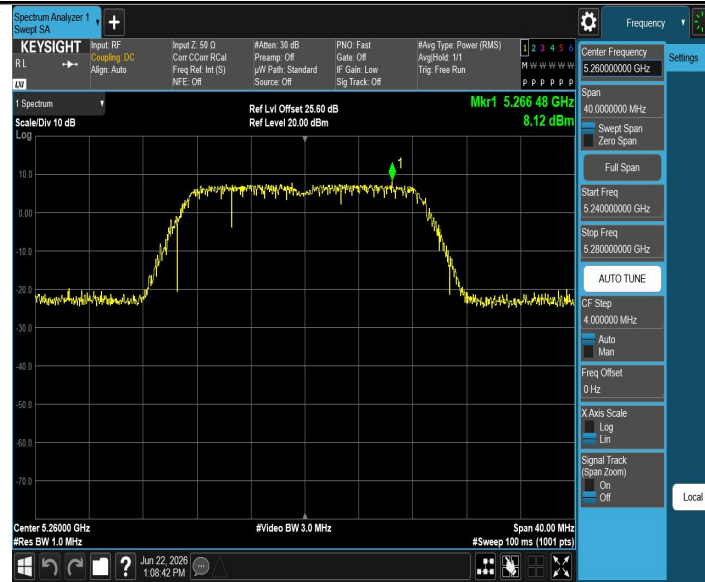
11N20MIMO_Ant2_5240



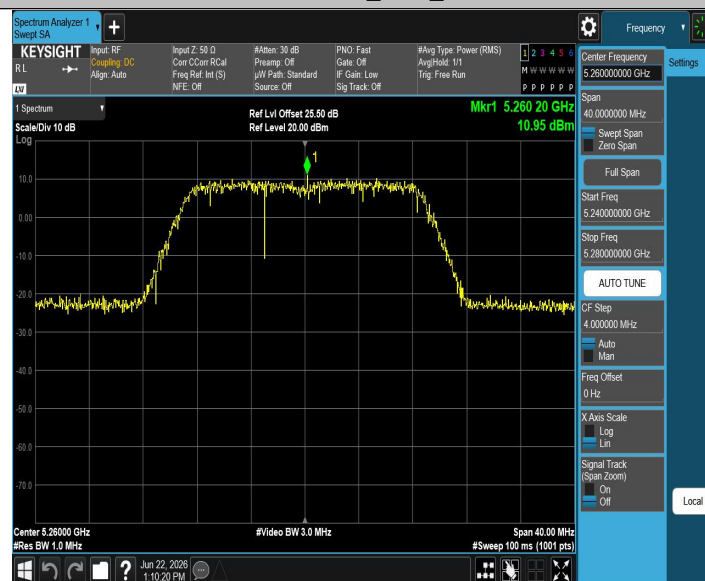
11N20MIMO_Ant1_5260



11N20MIMO_Ant1_5260

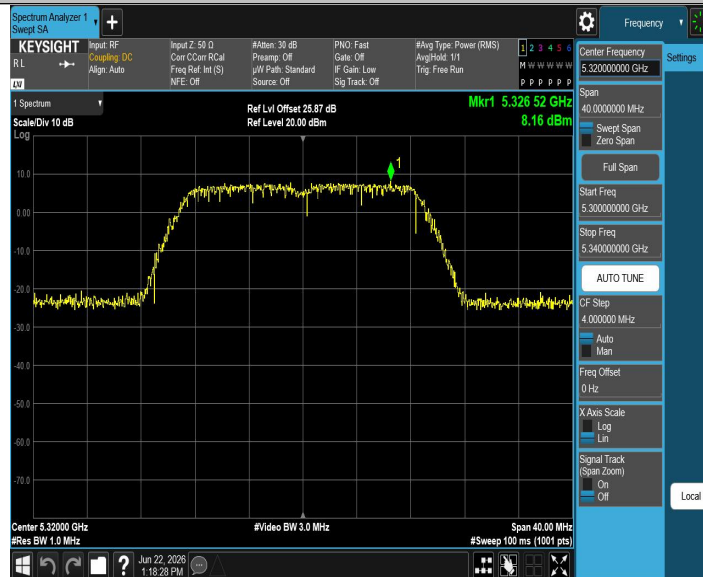


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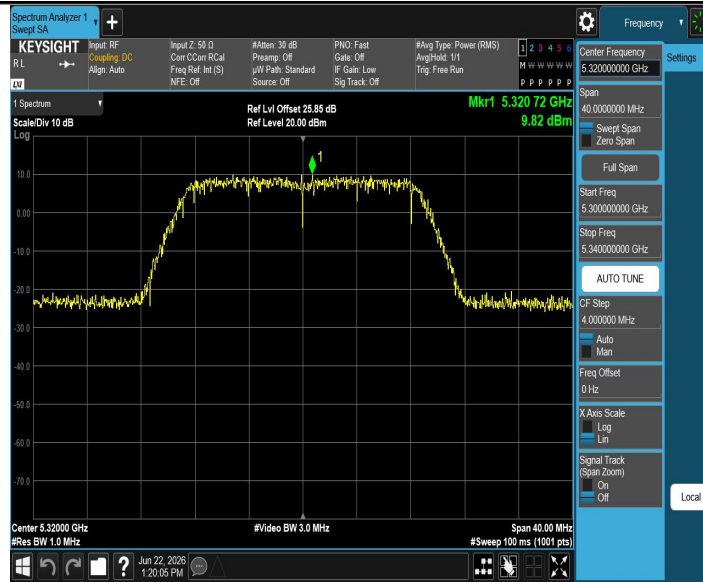


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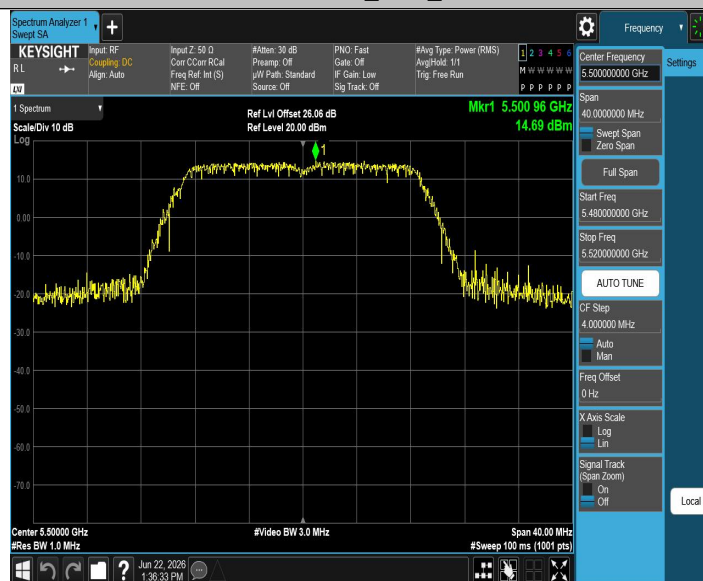


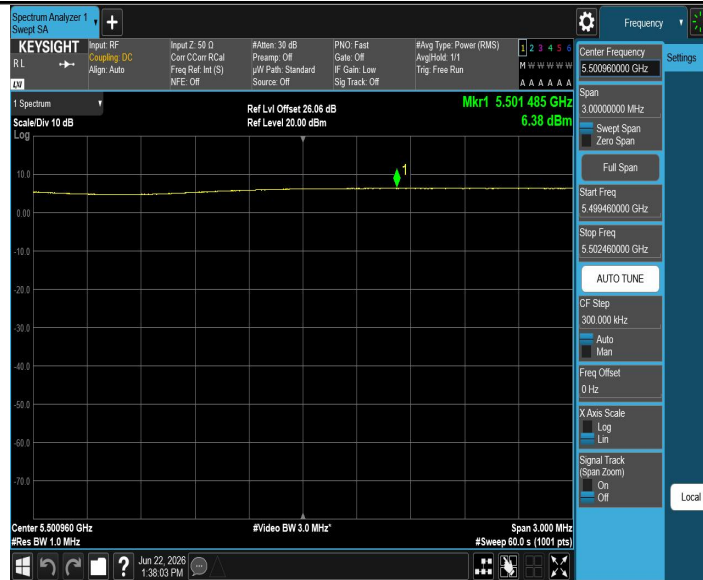
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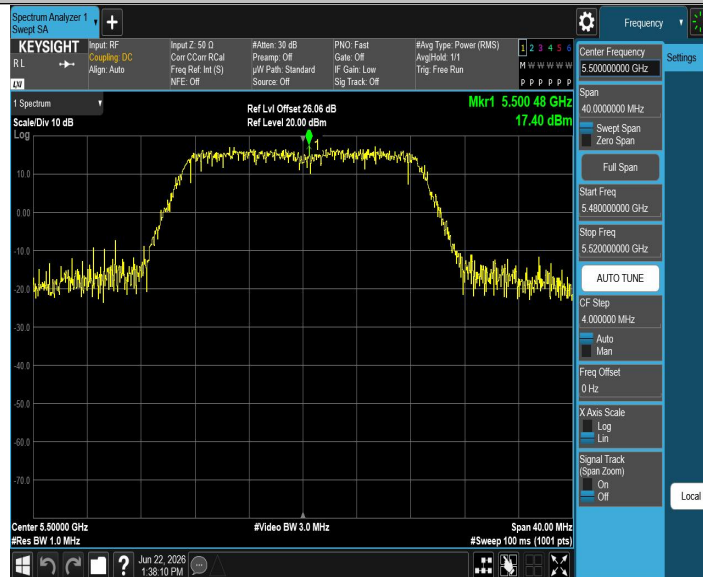


11N20MIMO_Ant1_5500

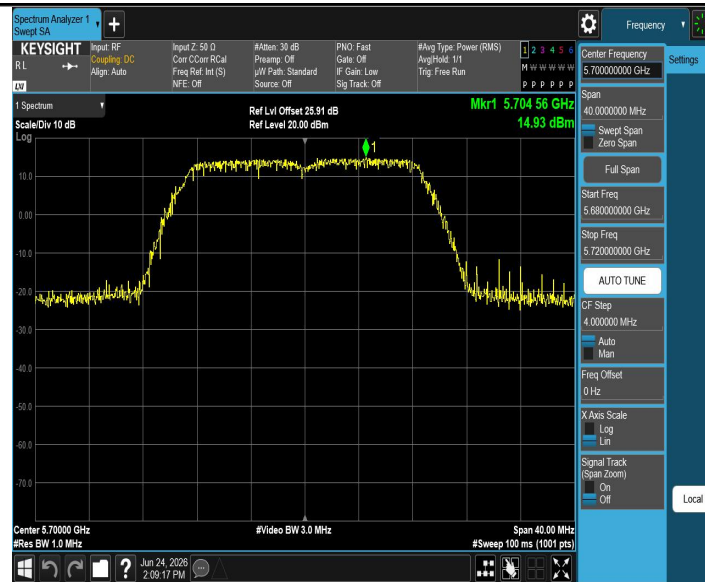




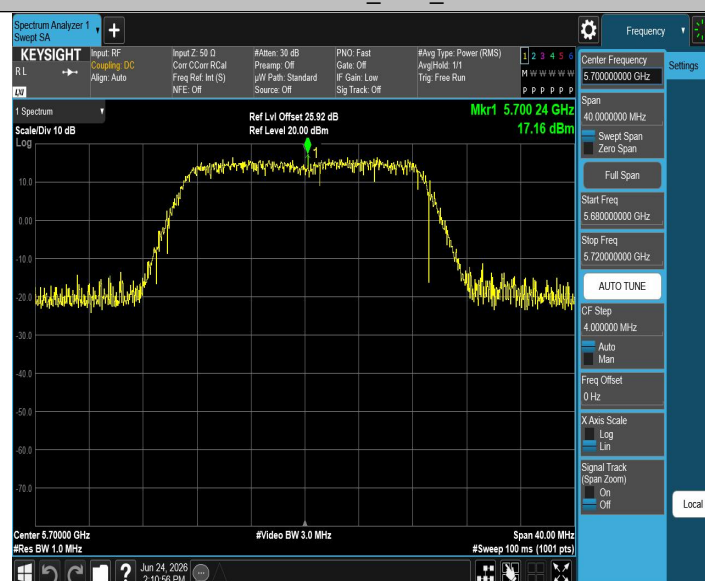
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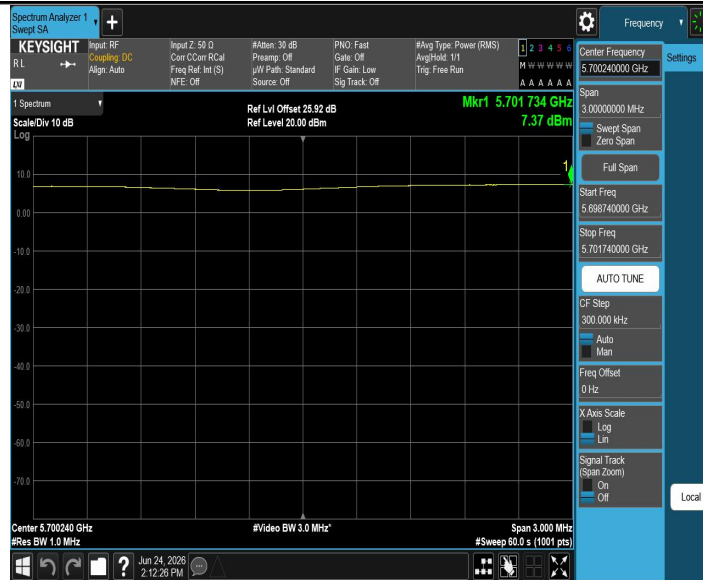


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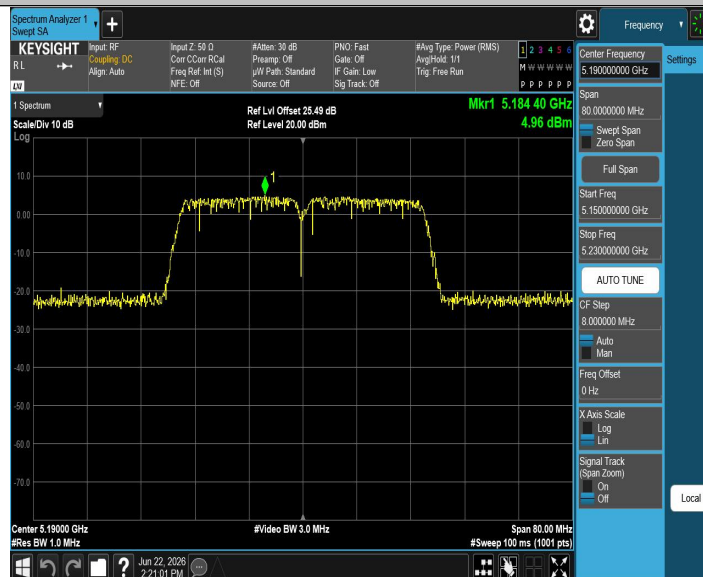


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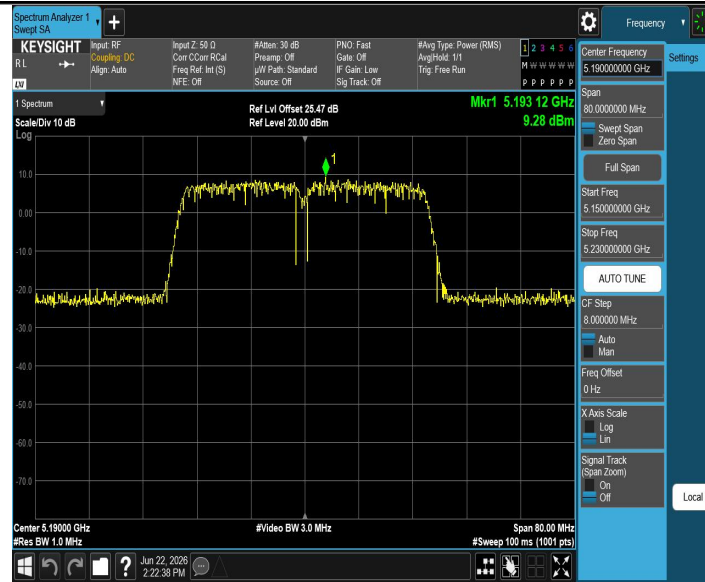




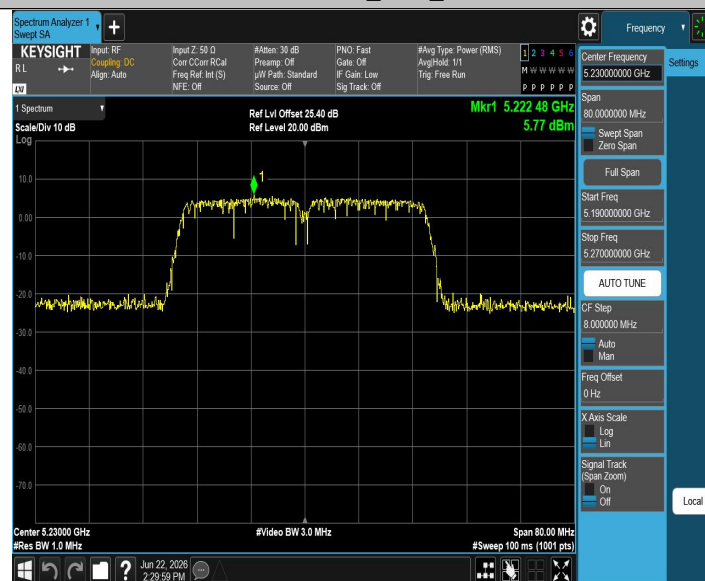
11N40MIMO_Ant1_5190

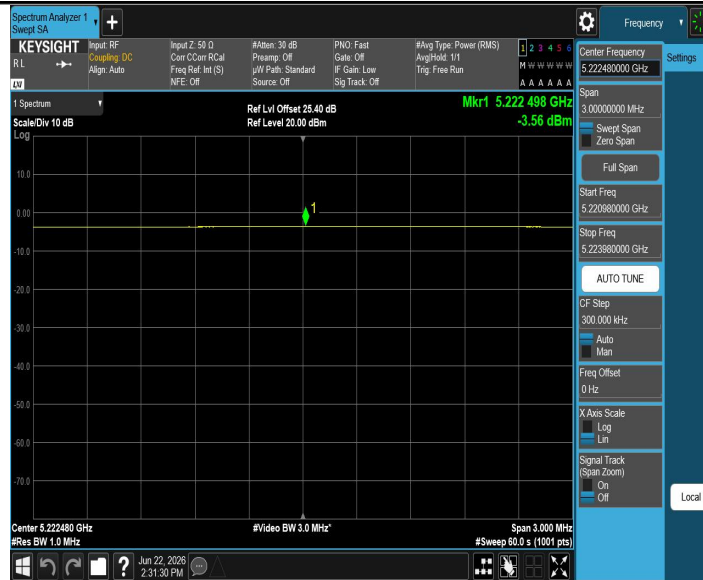


11N40MIMO_Ant2_5190

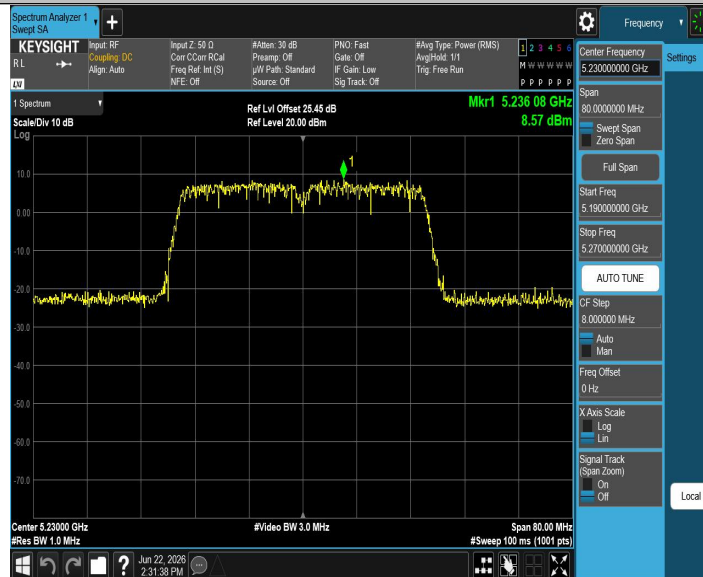


11N40MIMO_Ant1_5230

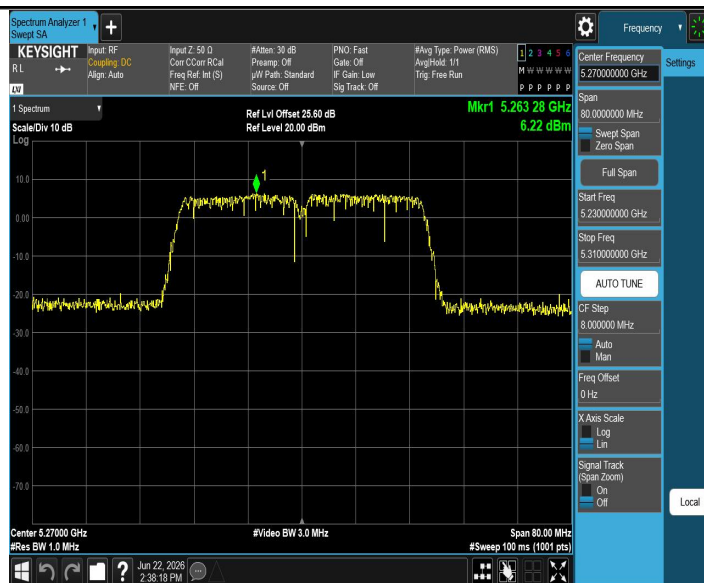




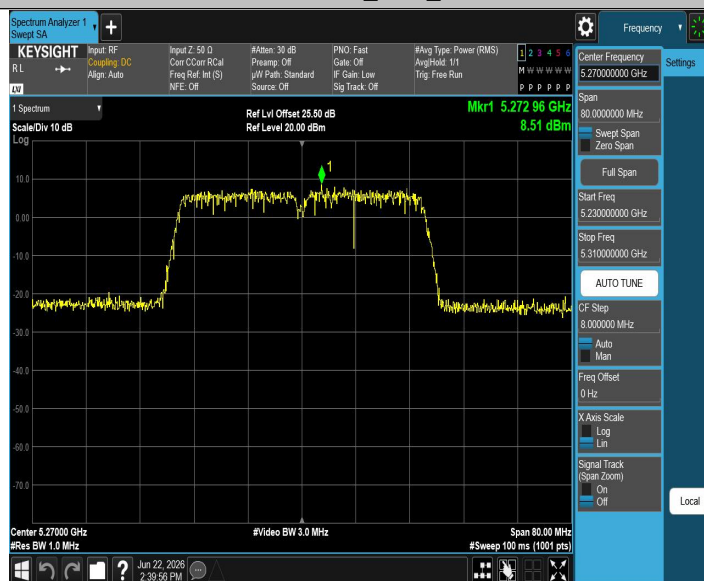
11N40MIMO_Ant2_5230



11N40MIMO_Ant1_5270

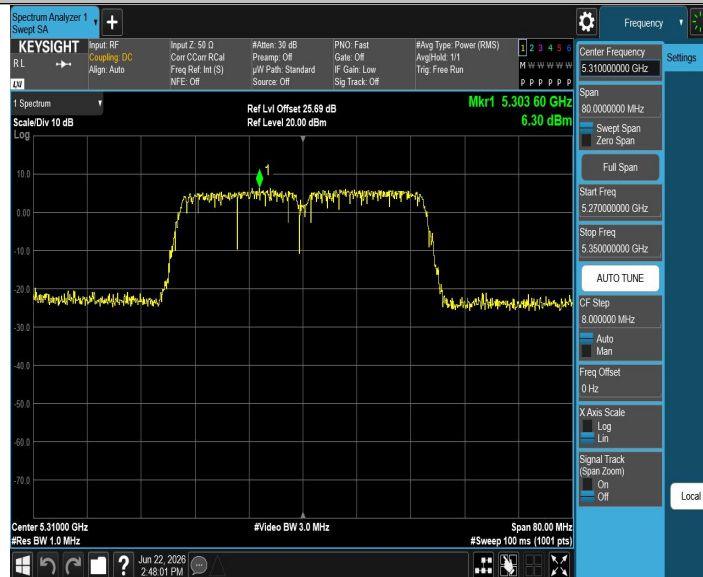


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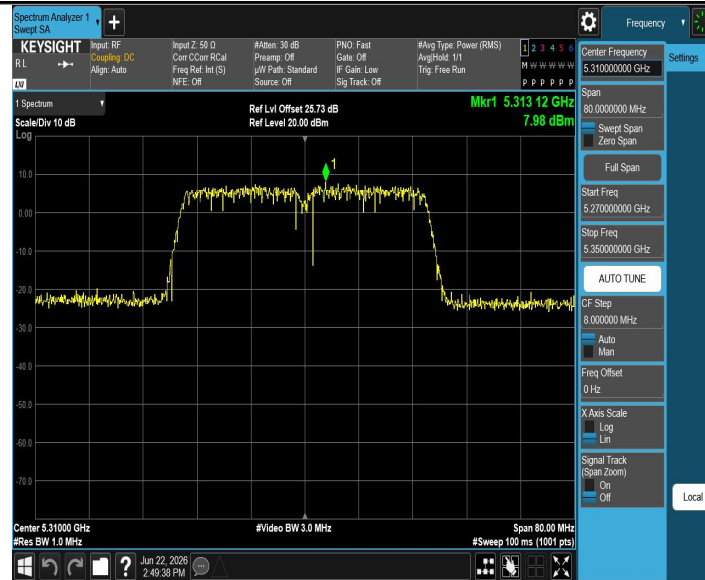




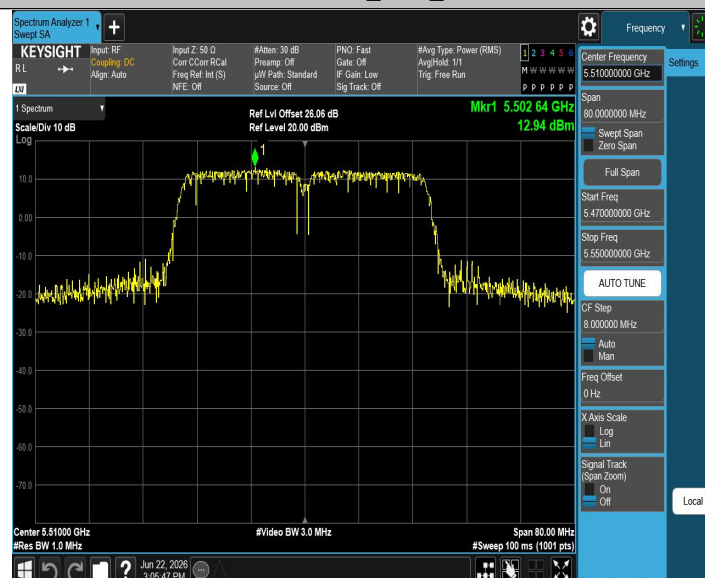
11N40MIMO_Ant1_5310

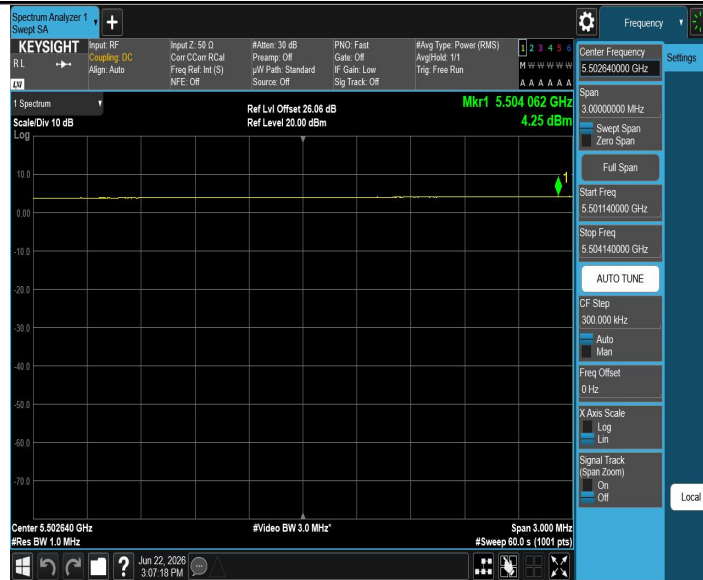


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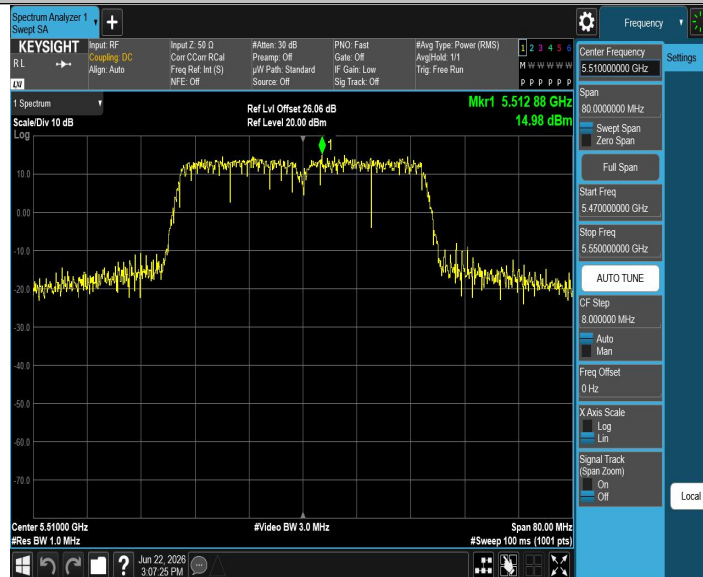


11N40MIMO_Ant1_5510

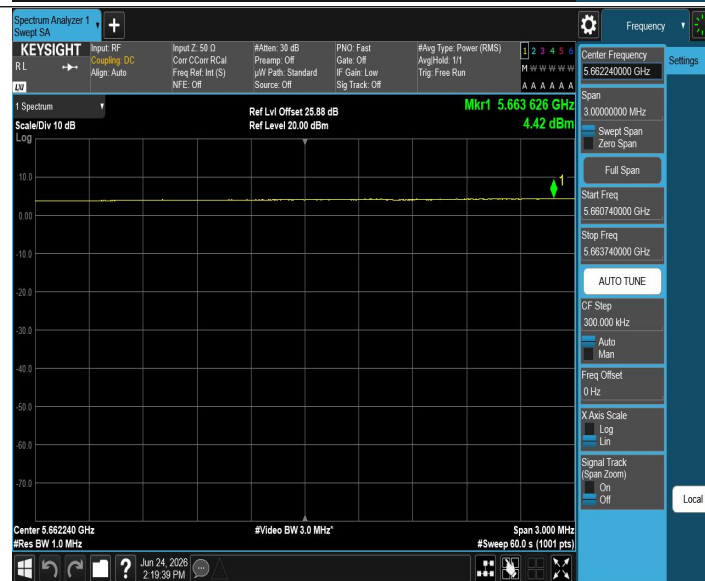
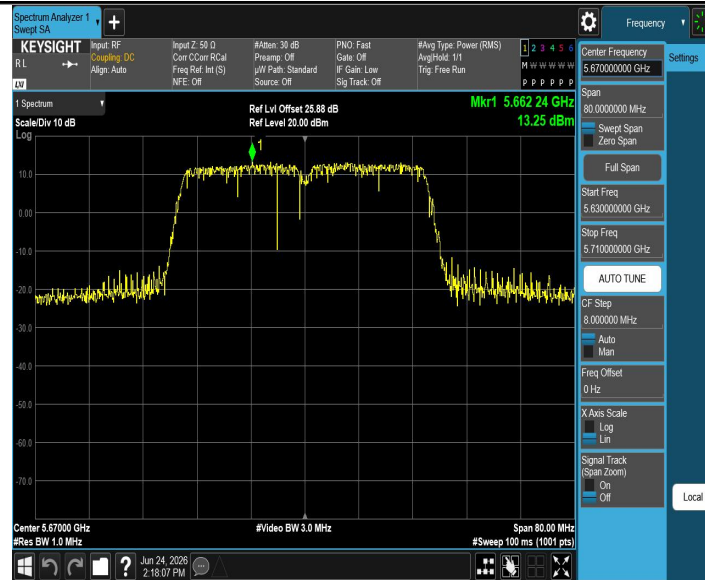




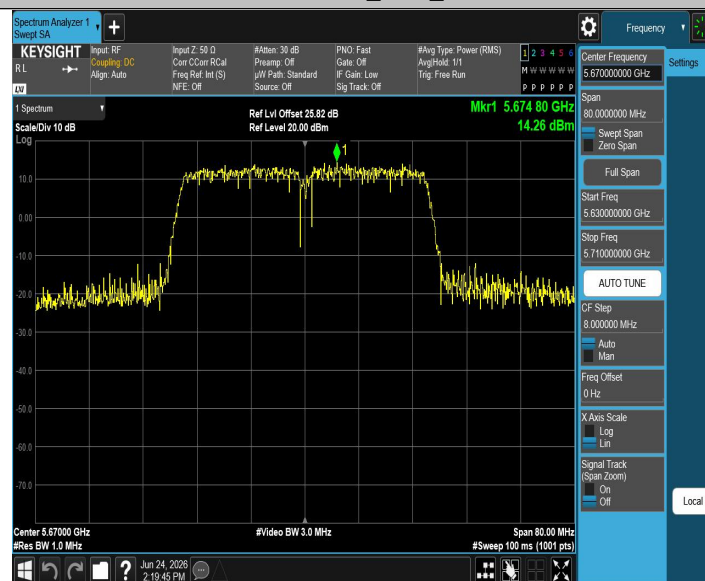
11N40MIMO_Ant2_5510



11N40MIMO_Ant1_5670

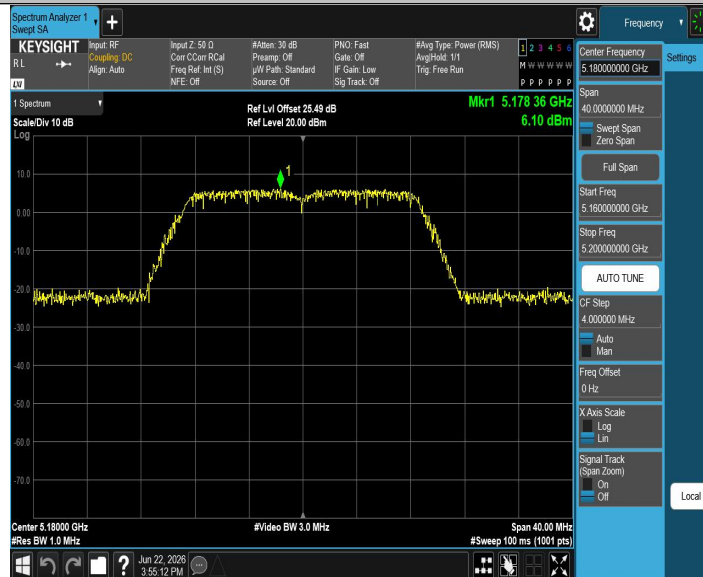


11N40MIMO_Ant2_5670

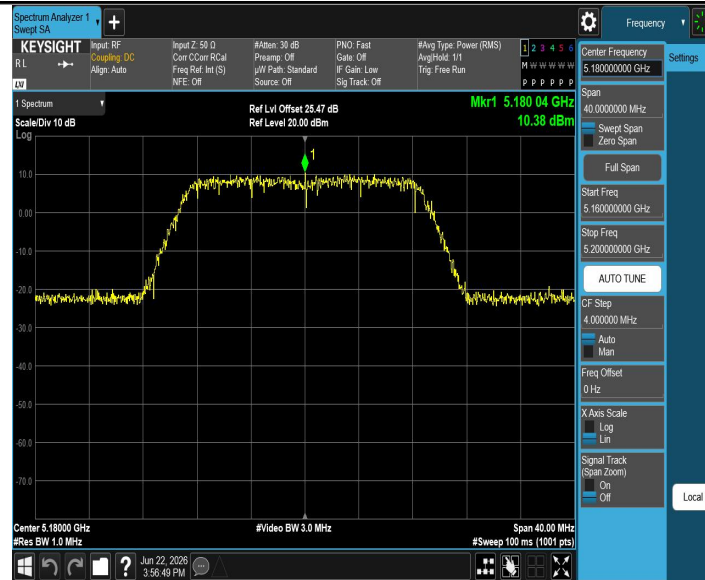




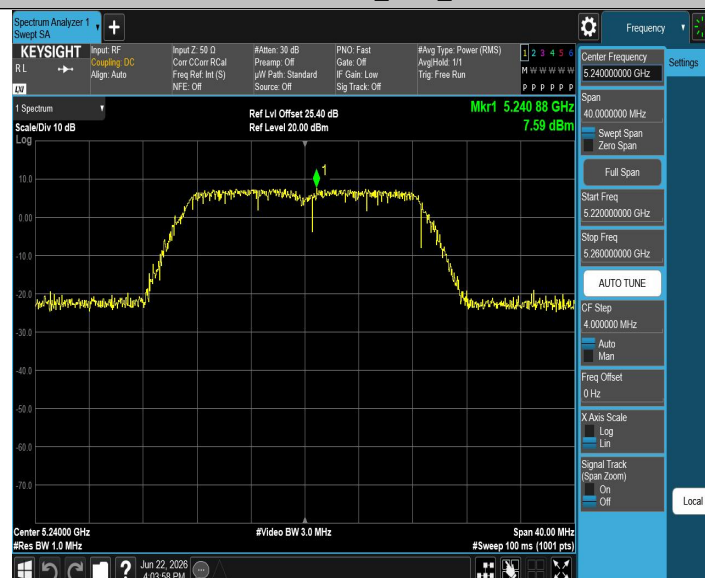
11AC20MIMO_Ant1_5180



11AC20MIMO_Ant2_5180

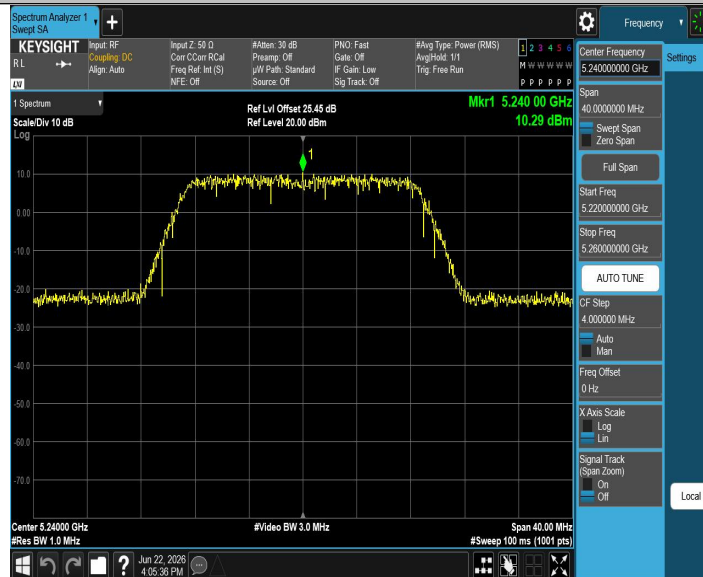


11AC20MIMO_Ant1_5240

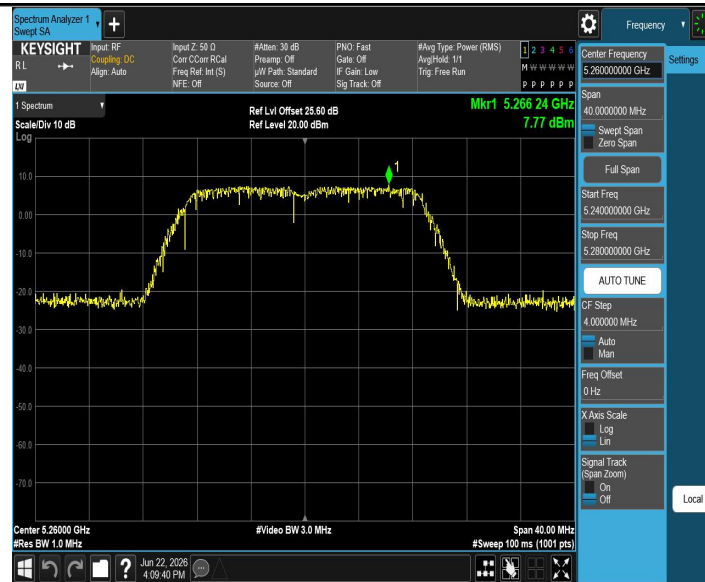




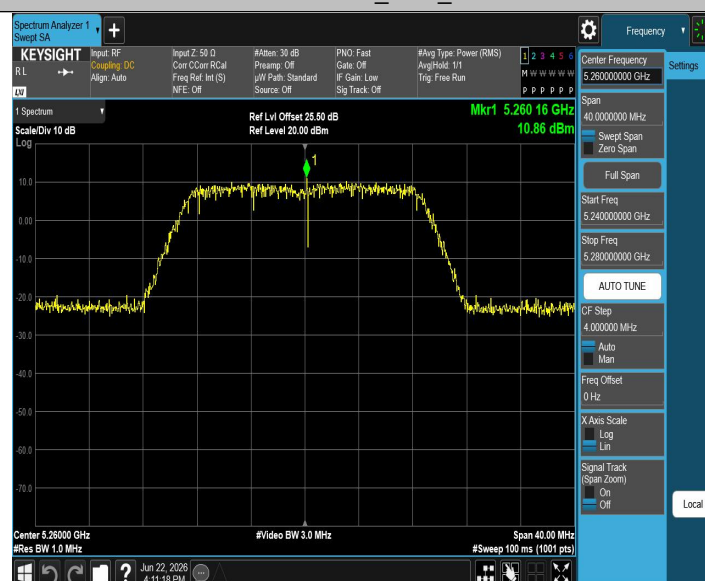
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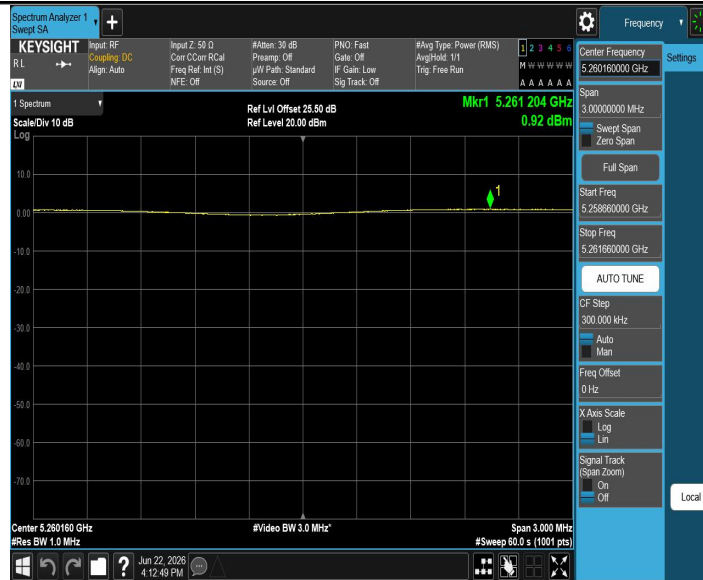


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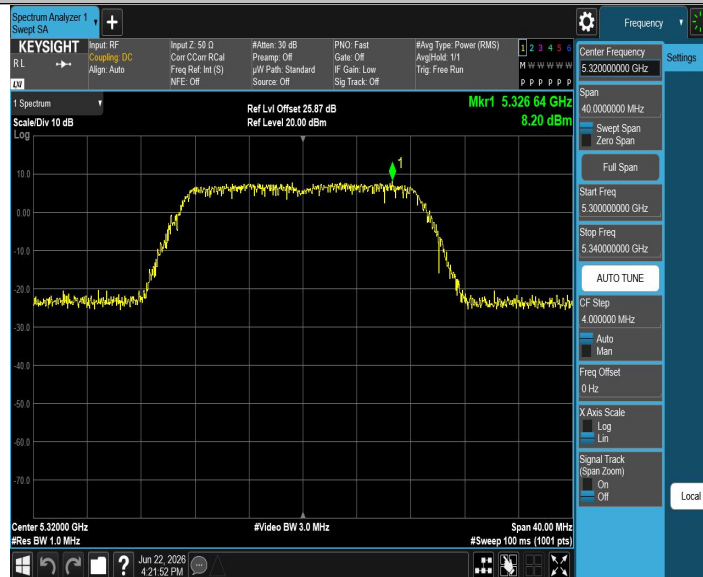


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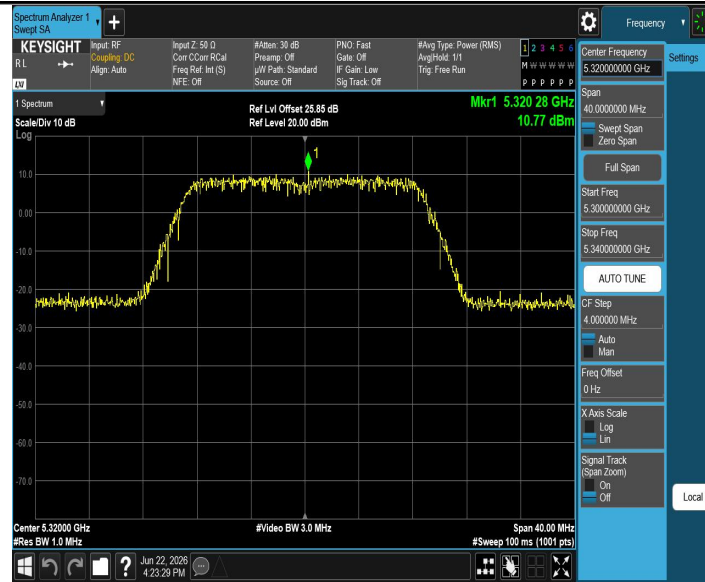
11AC20MIMO_Ant1_5320



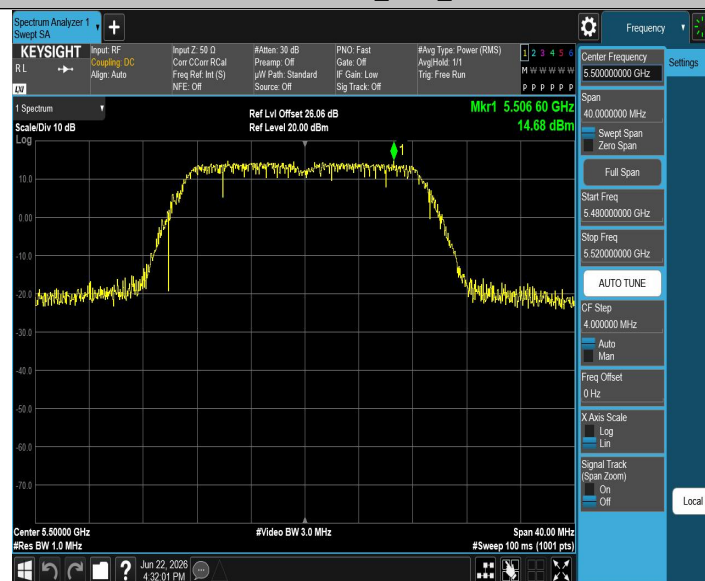
11AC20MIMO_Ant2_5320



11AC20MIMO_Ant2_5320

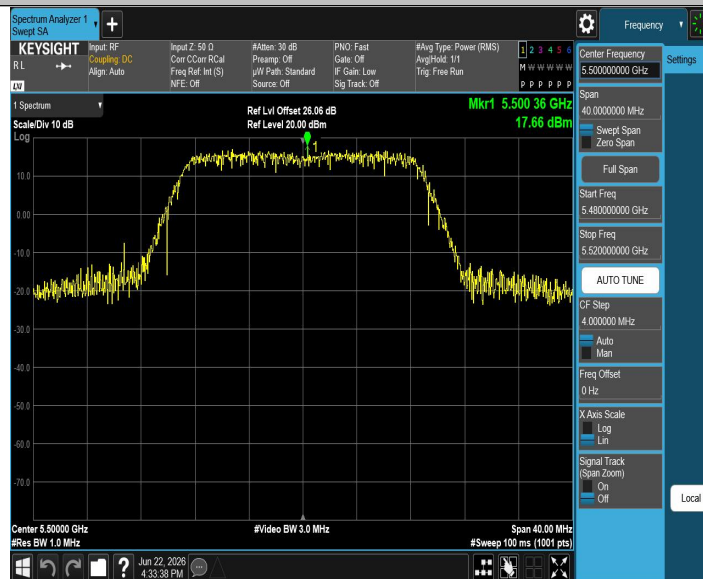


11AC20MIMO_Ant1_5500

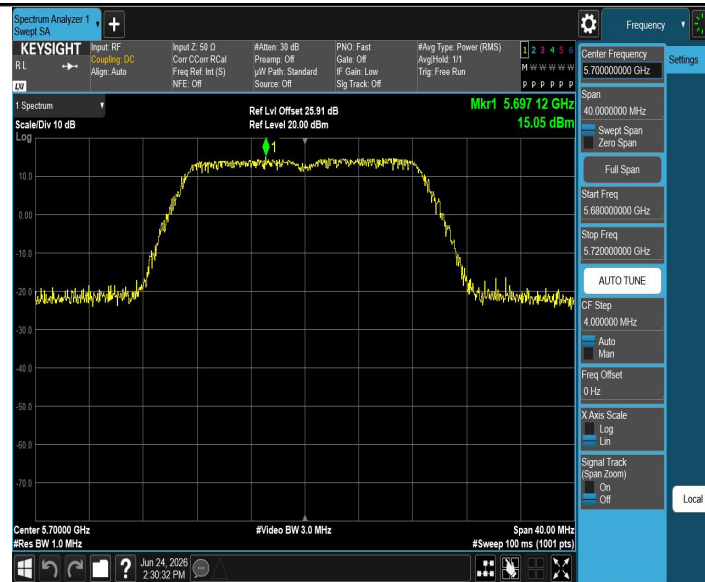




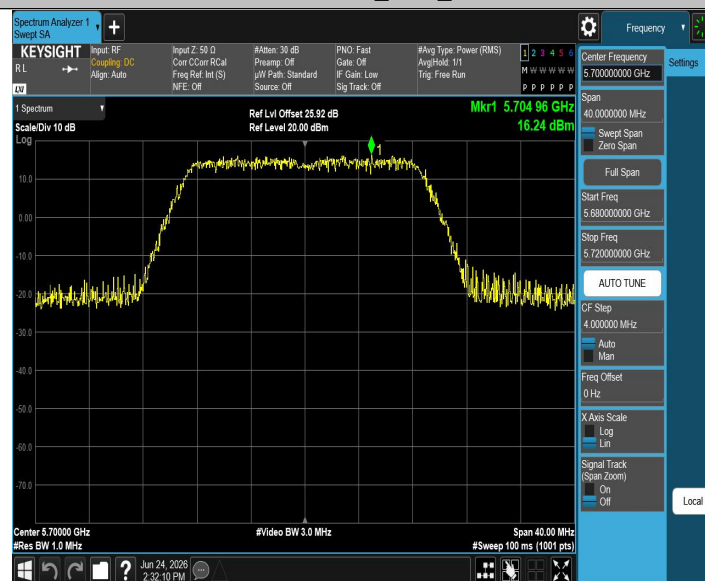
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11AC20MIMO_Ant1_5700

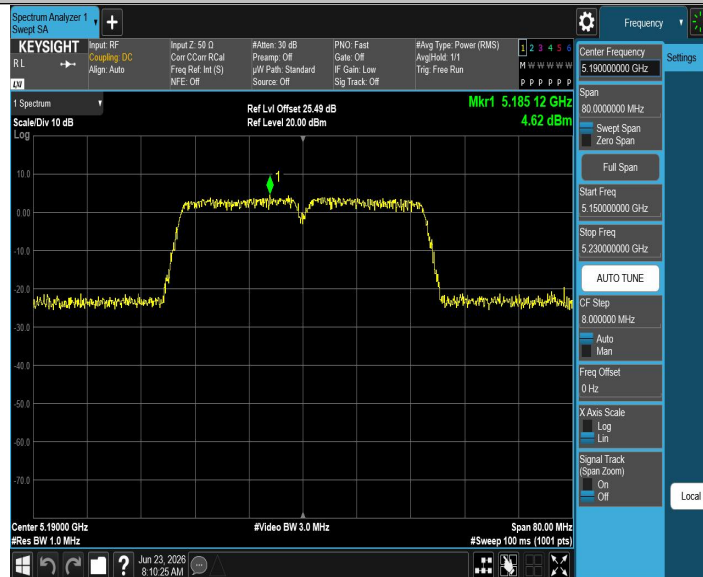


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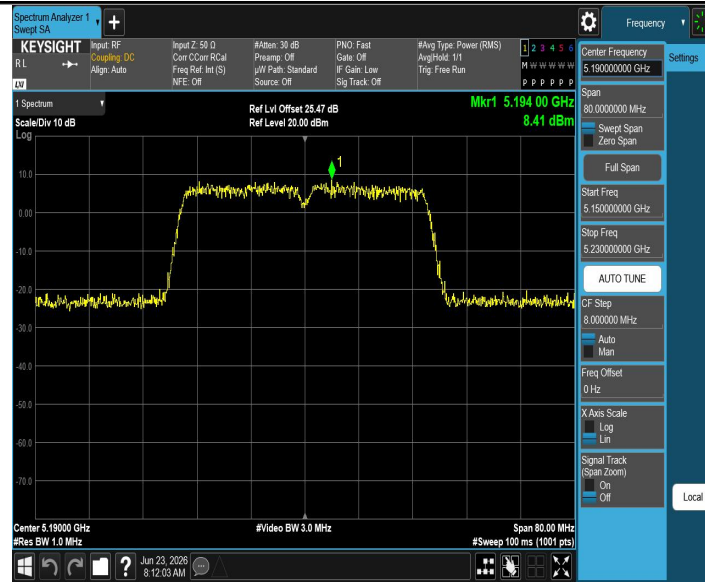




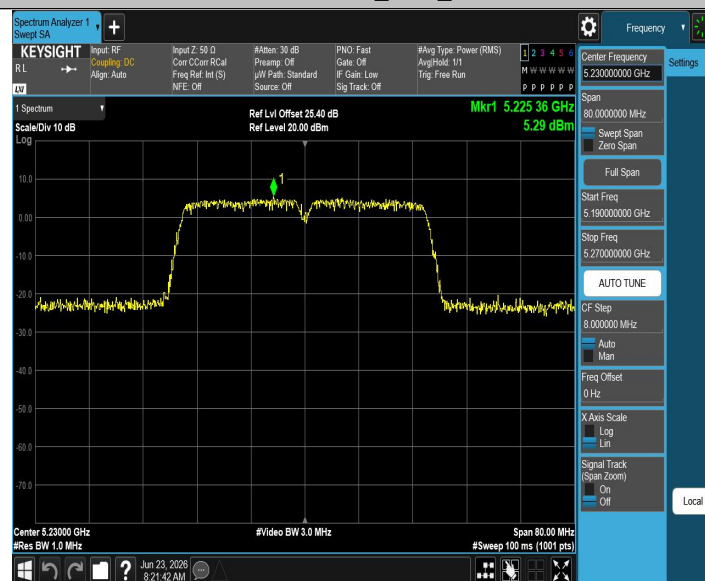
11AC40MIMO_Ant1_5190

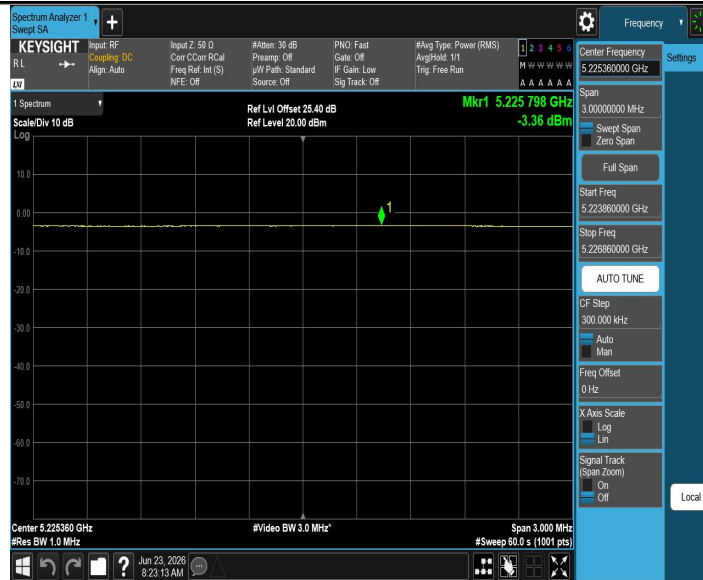


11AC40MIMO_Ant2_5190

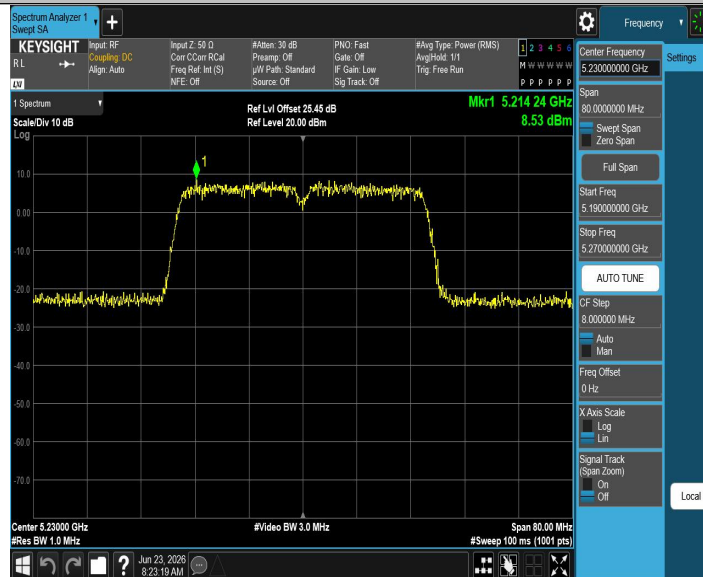


11AC40MIMO_Ant1_5230

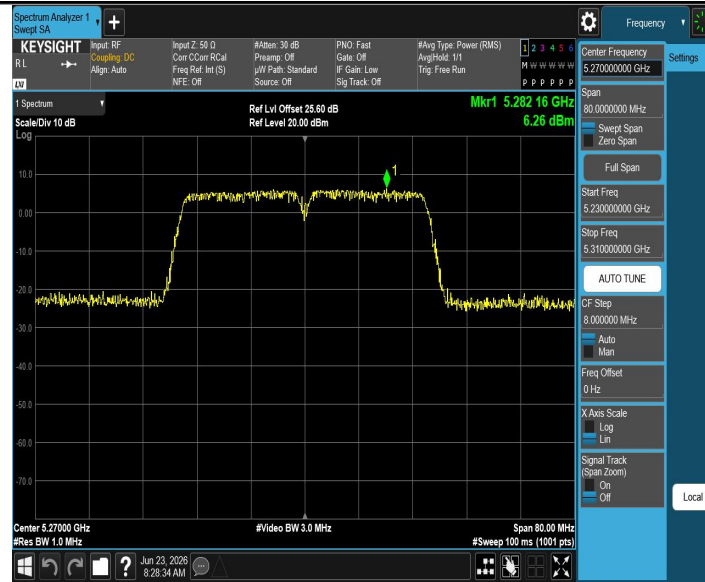




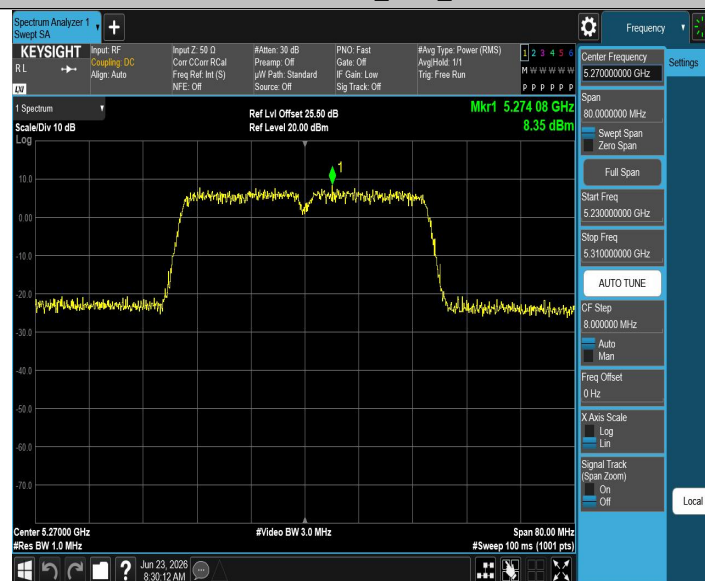
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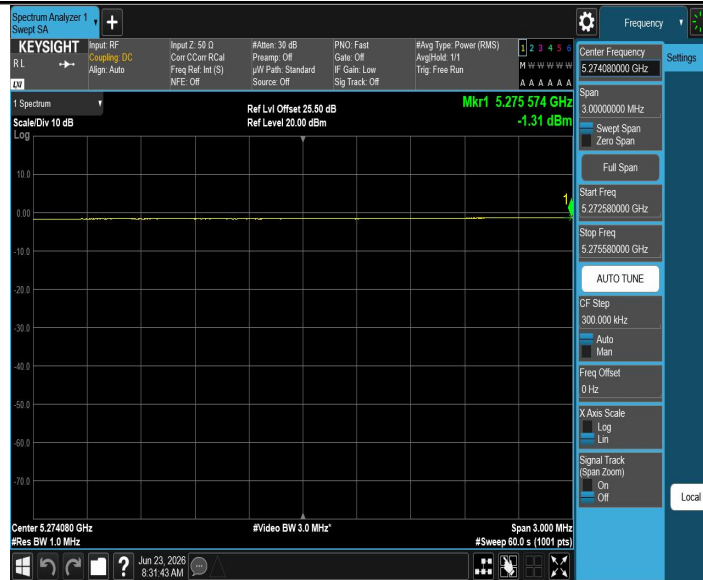


11AC40MIMO_Ant1_5270

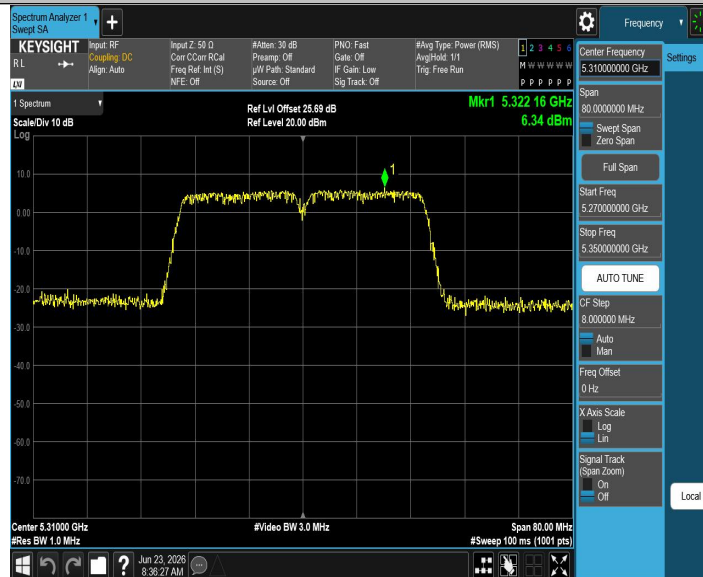


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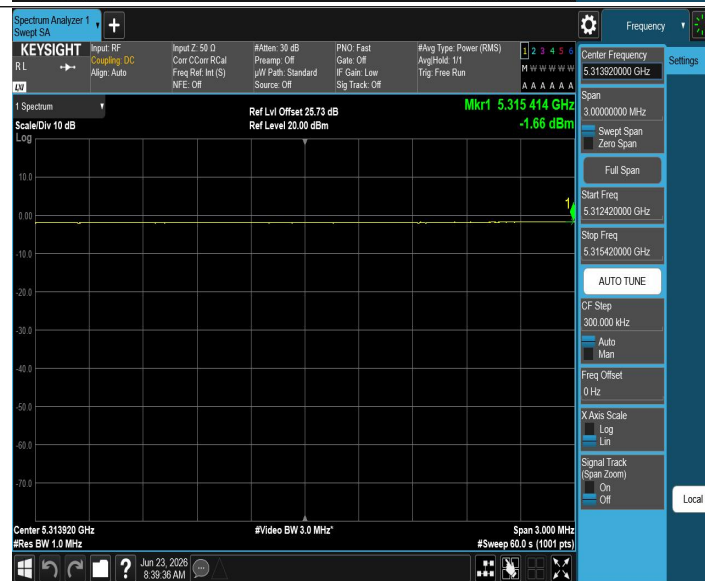
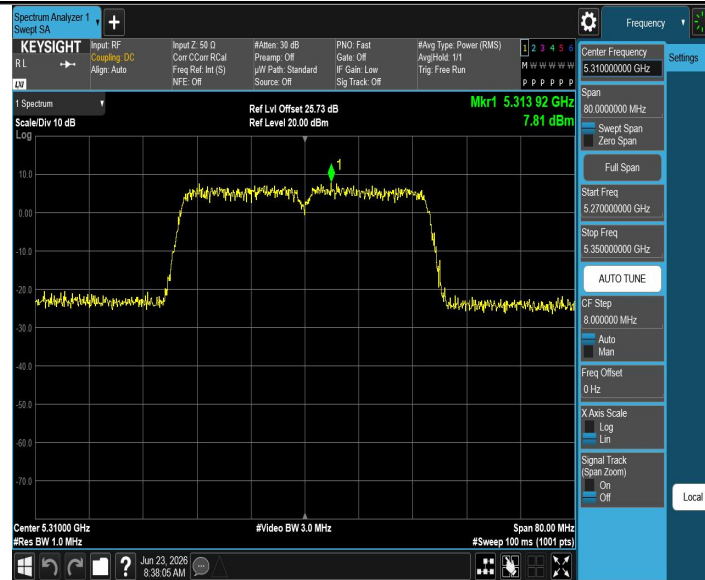




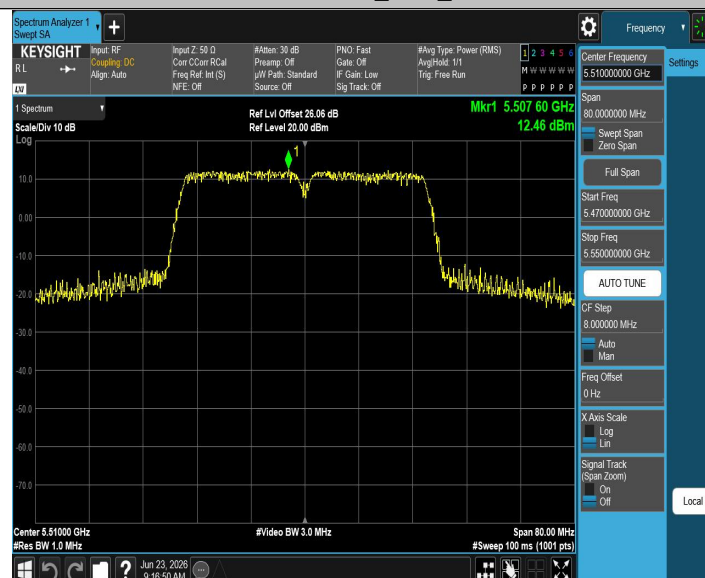
11AC40MIMO_Ant1_5310



11AC40MIMO_Ant2_5310

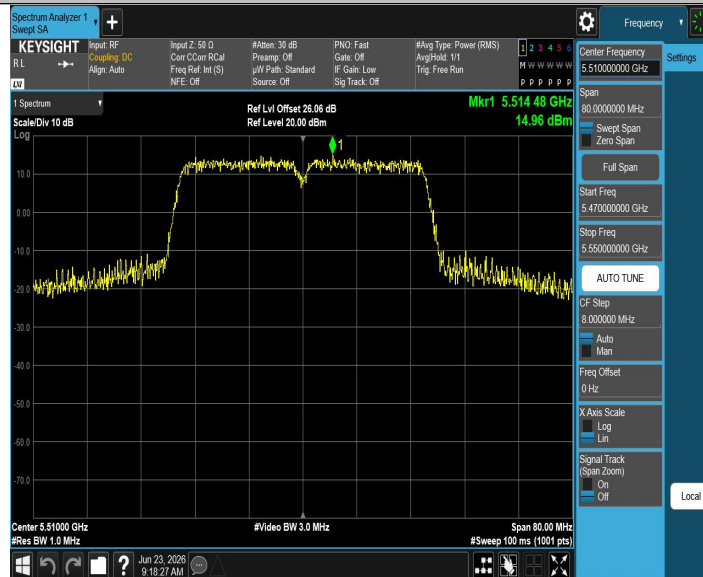


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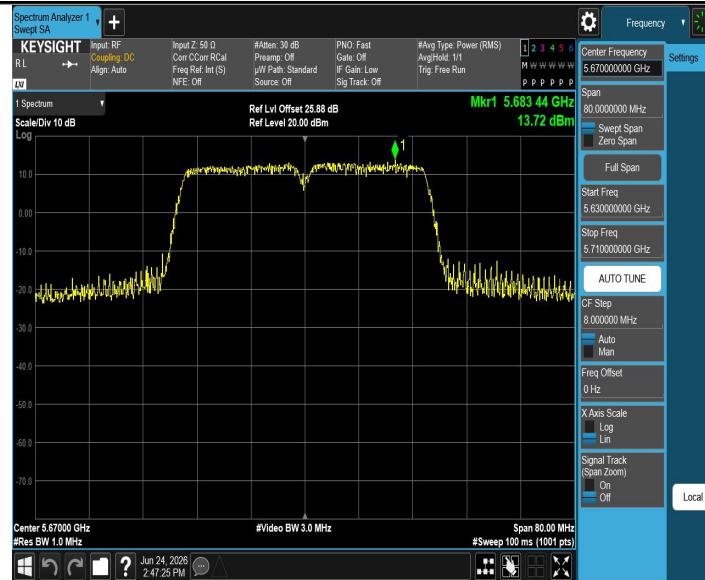




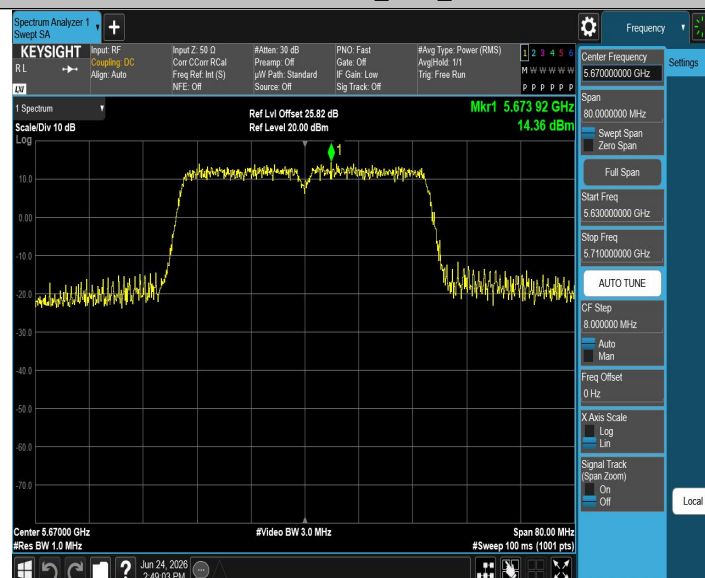
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11AC40MIMO_Ant1_5670

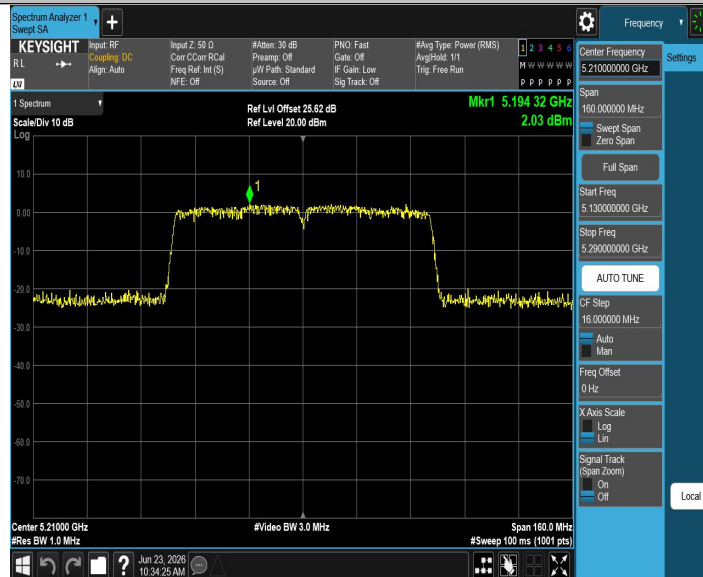


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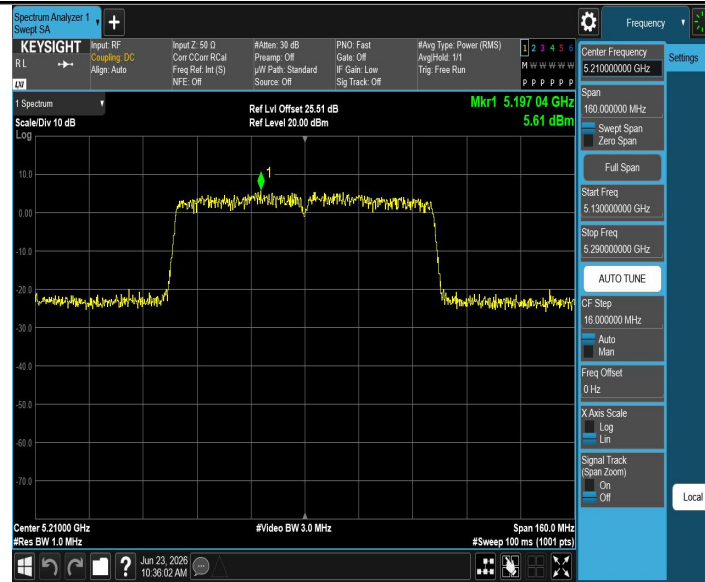




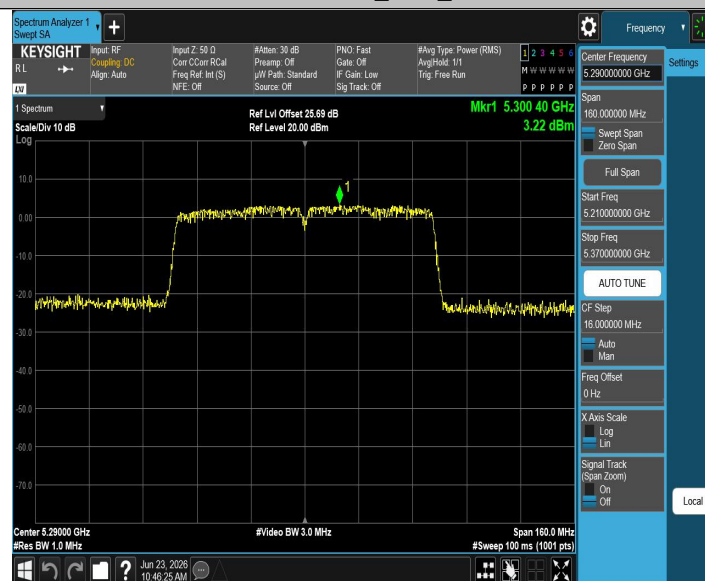
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11AC80MIMO_Ant2_5210

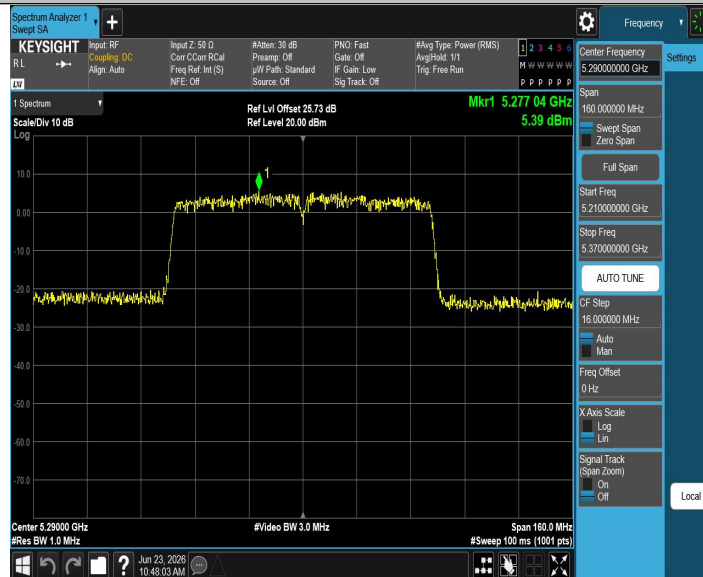


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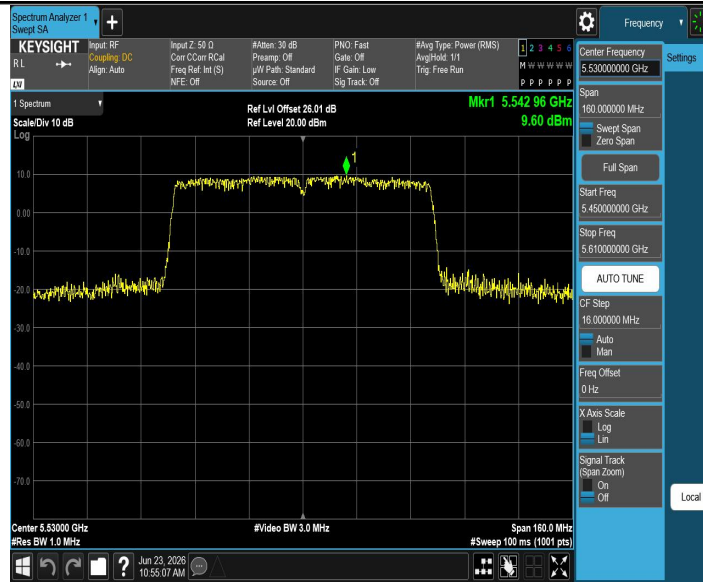


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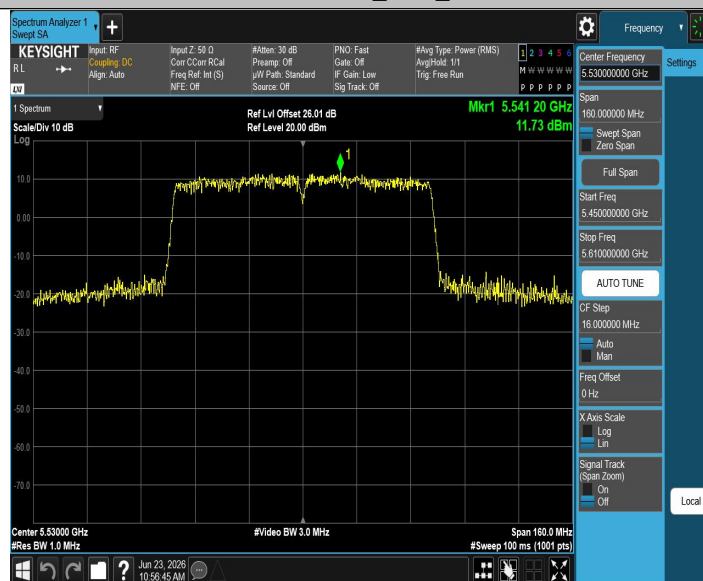


11AC80MIMO_Ant1_5530



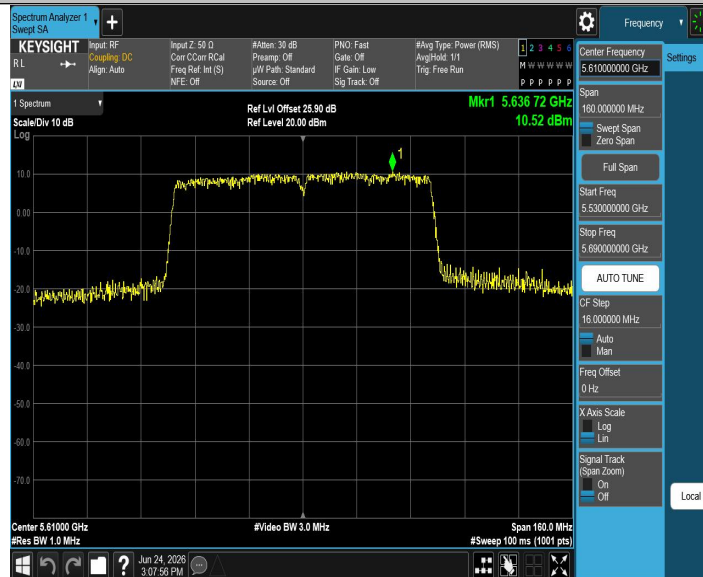


11AC80MIMO_Ant2_5530





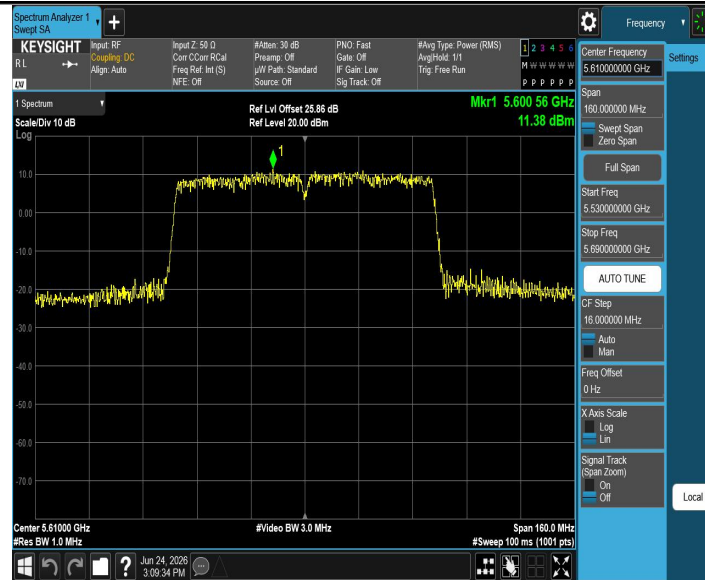
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11AC80MIMO_Ant2_5610



11AC80MIMO_Ant2_5610

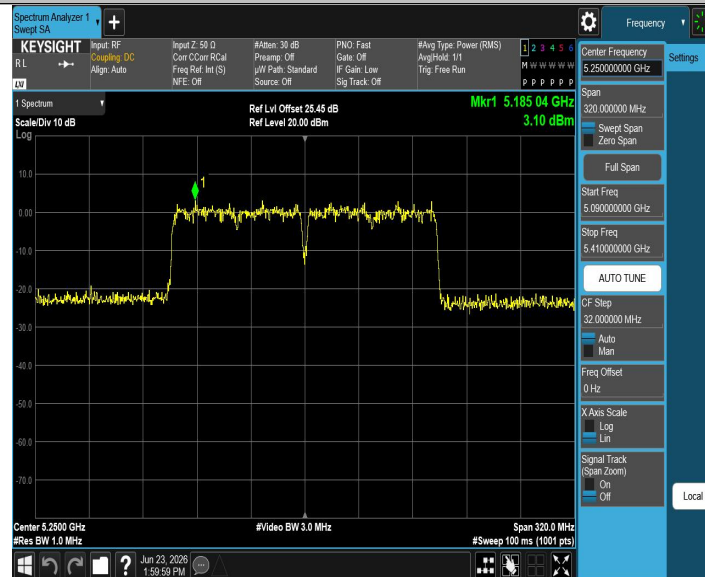


11AC160MIMO_Ant1_5250

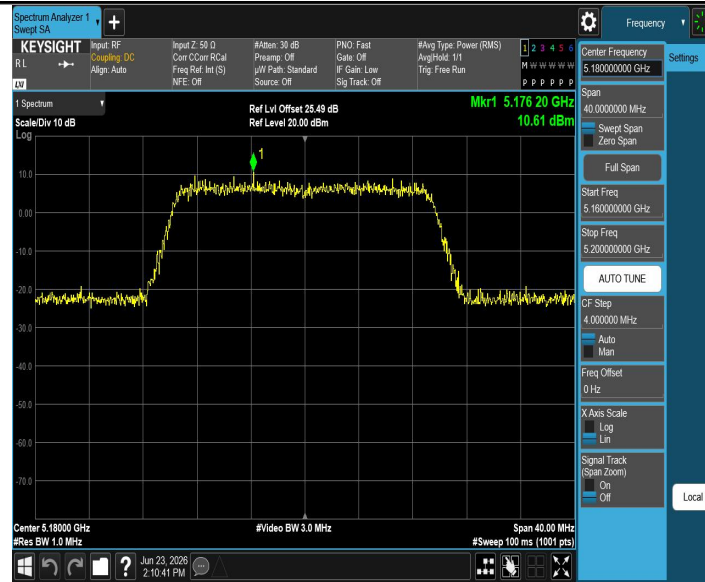




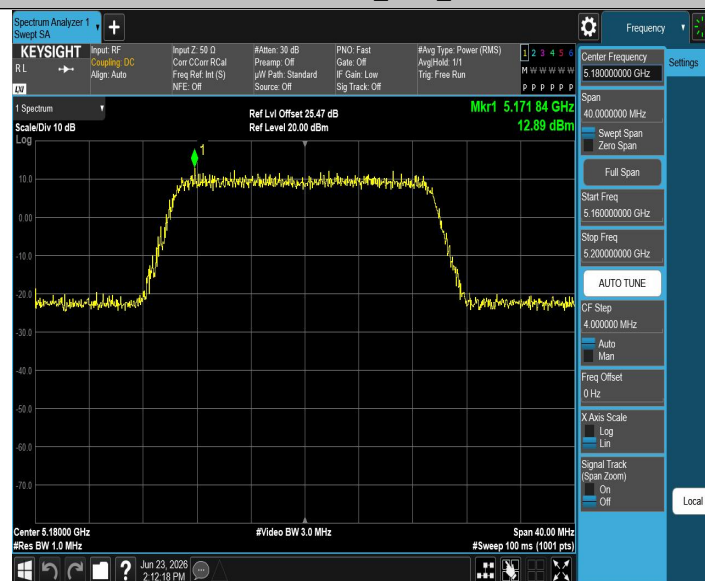
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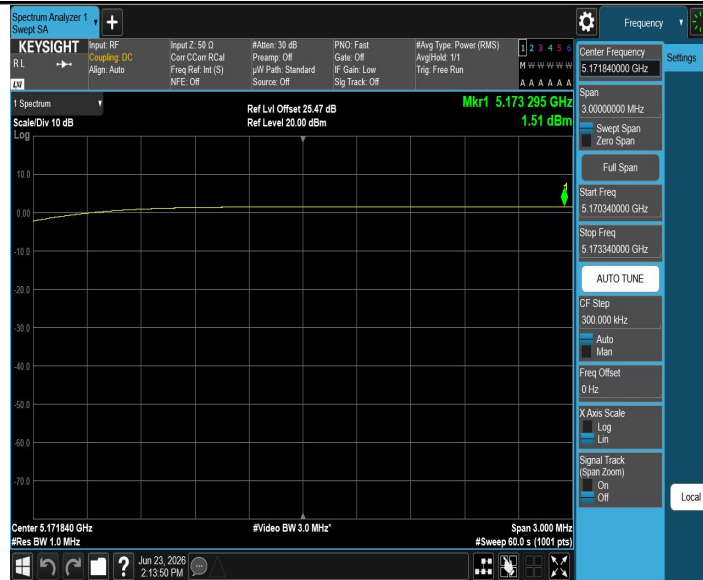


11AX20MIMO_Ant1_5180

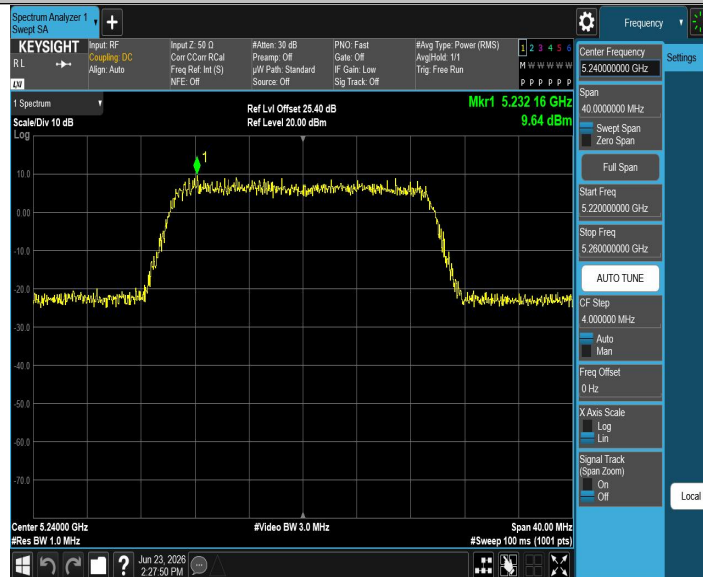


11AX20MIMO_Ant2_5180

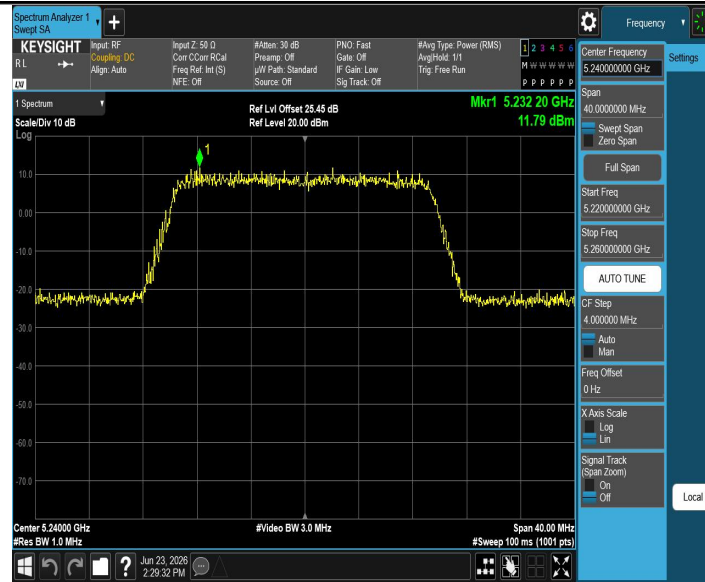




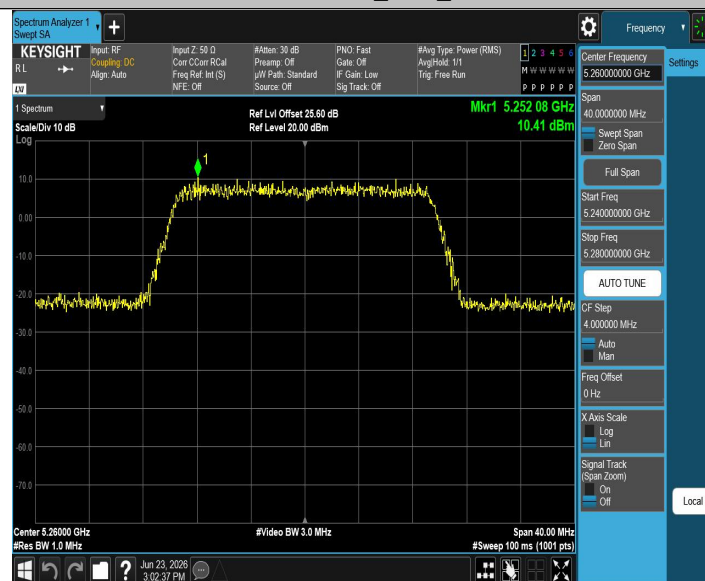
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11AX20MIMO_Ant2_5240

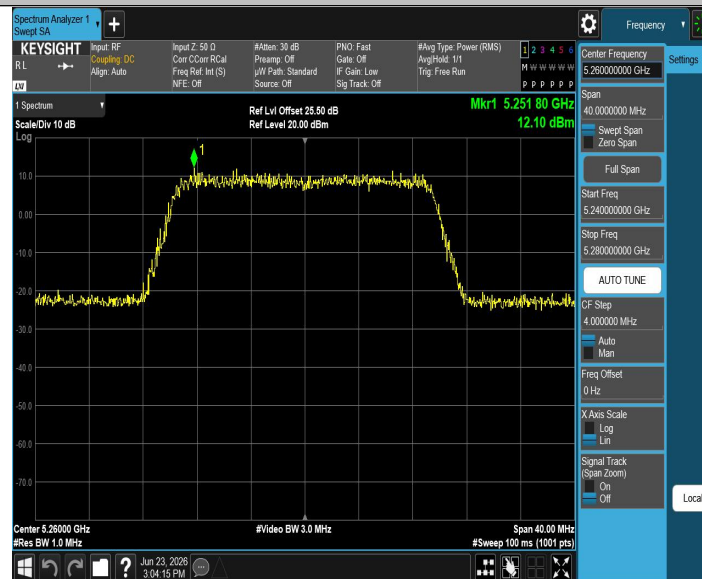


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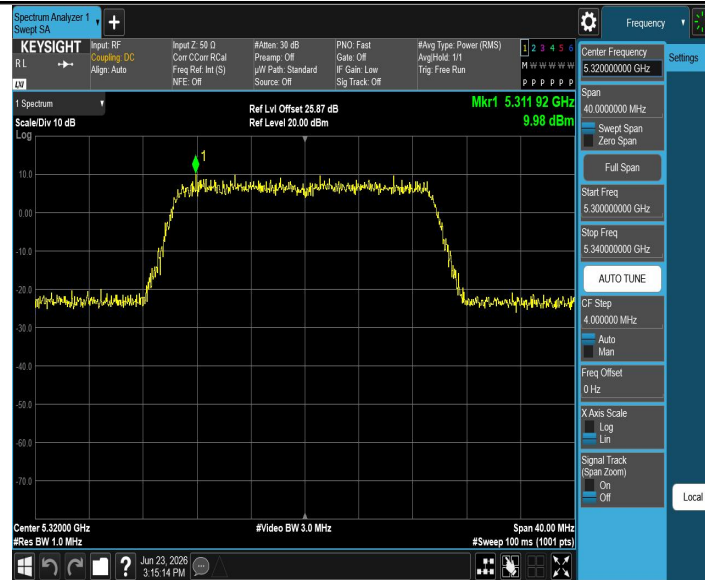




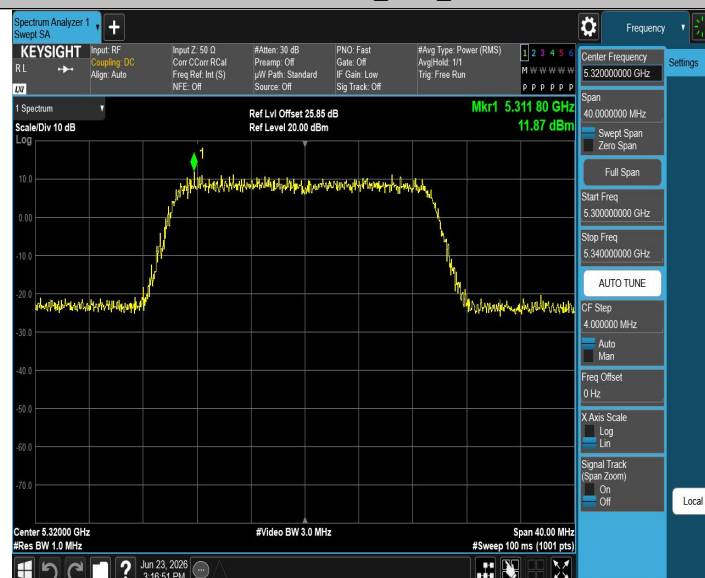
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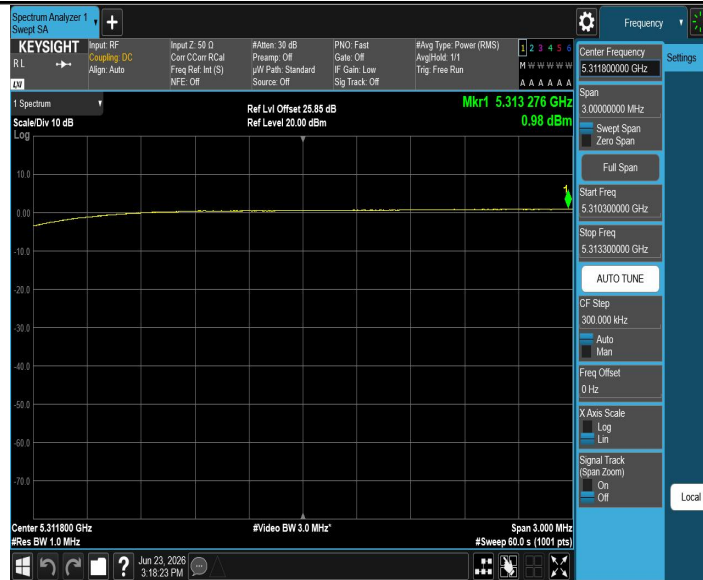


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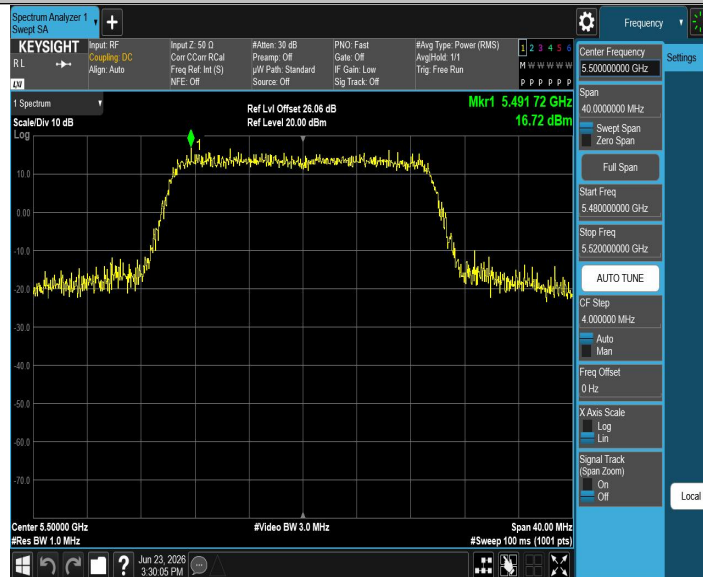


11AX20MIMO_Ant2_5320

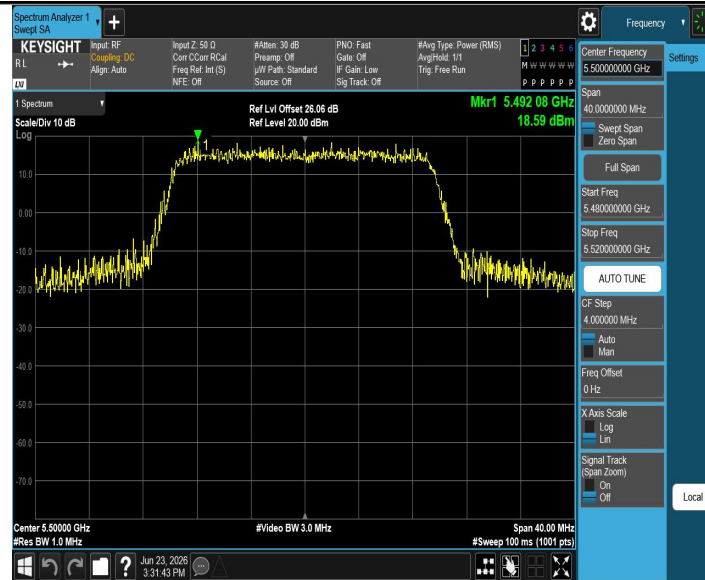




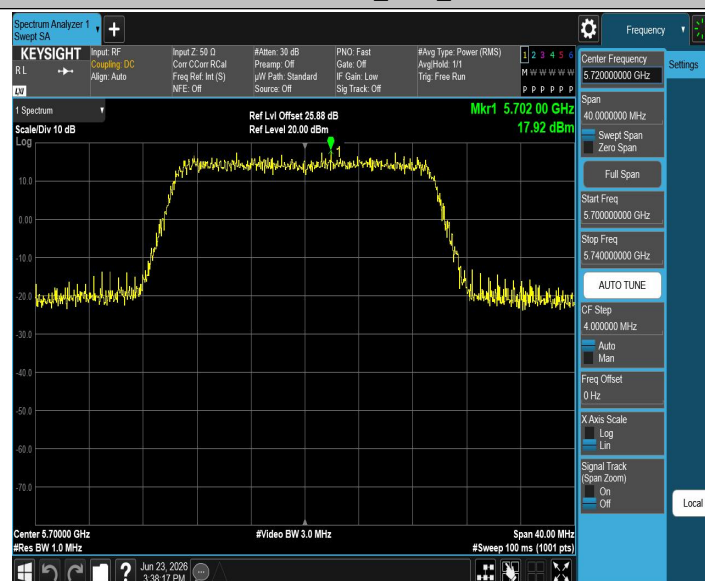
11AX20MIMO_Ant1_5500

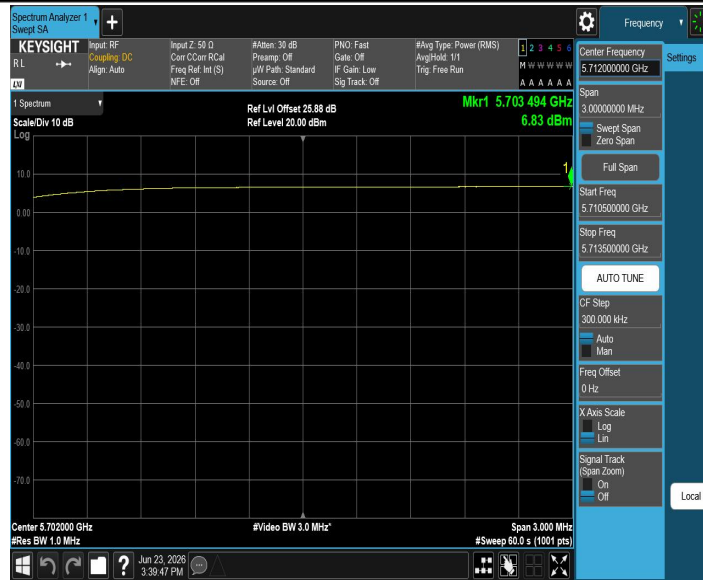


11AX20MIMO_Ant2_5500

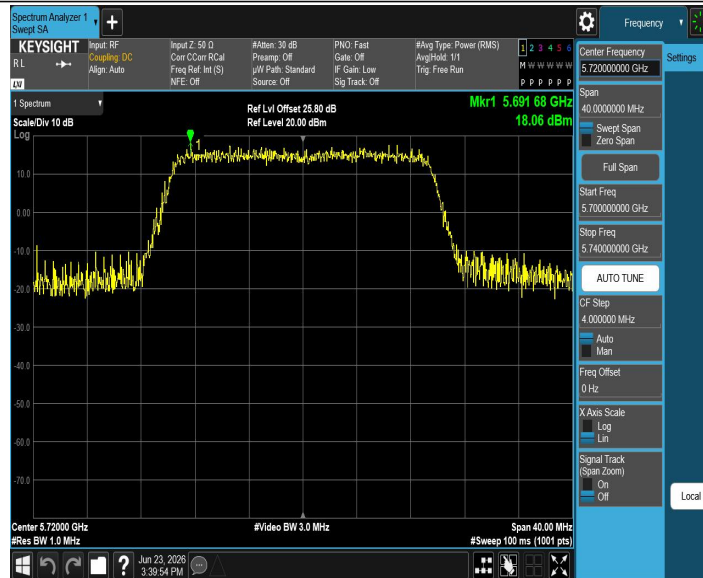


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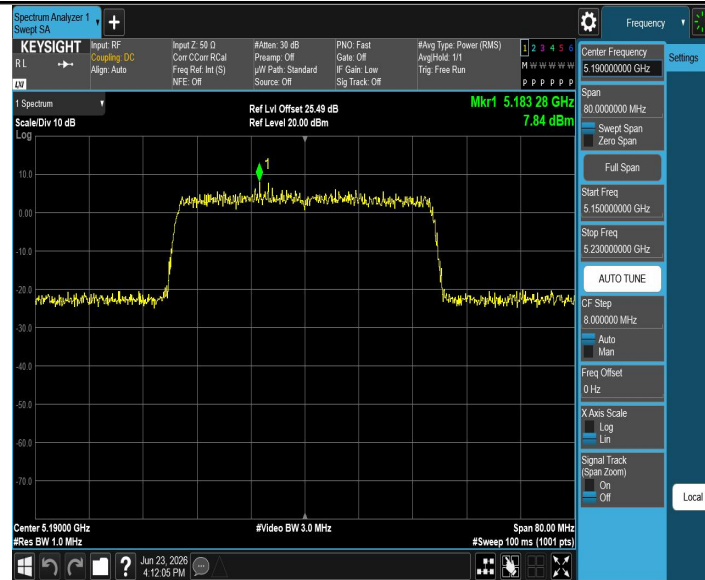




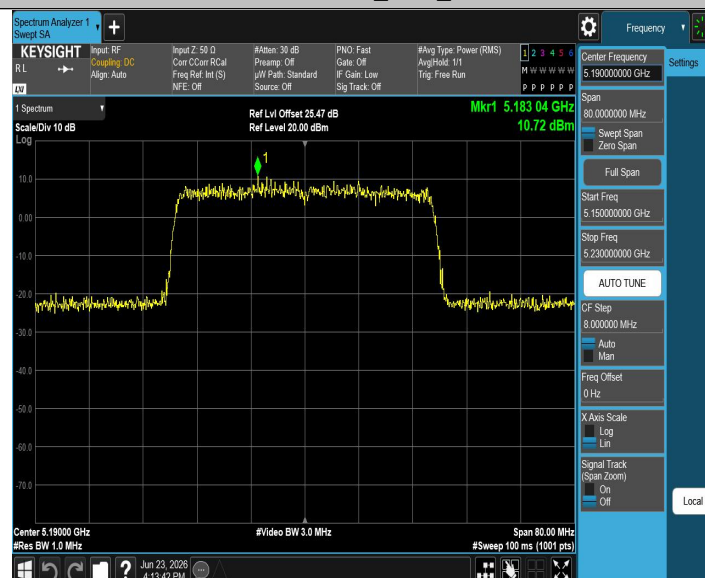
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11AX40MIMO_Ant1_5190

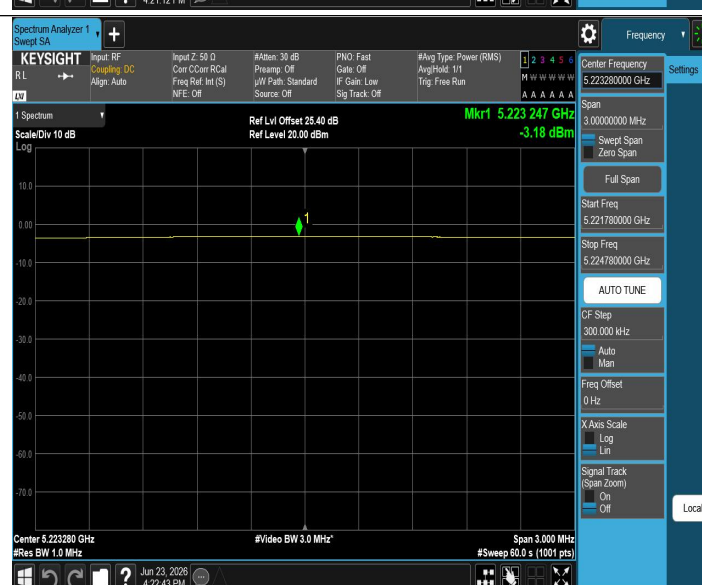
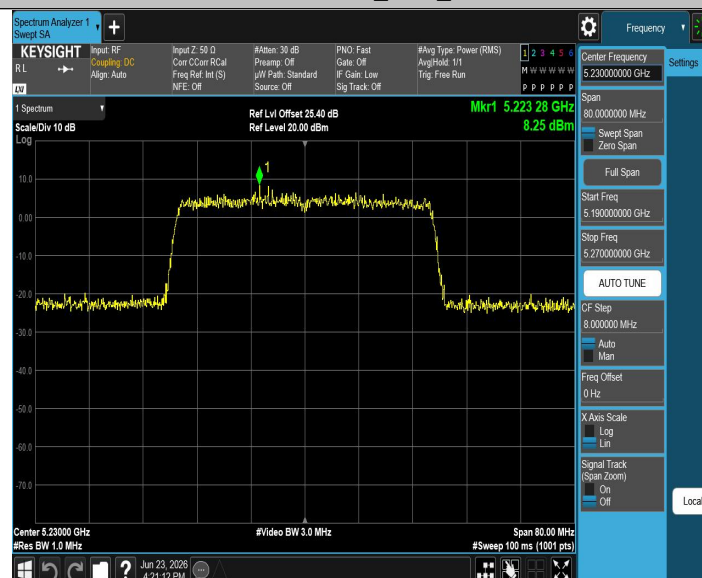


11AX40MIMO_Ant2_5190

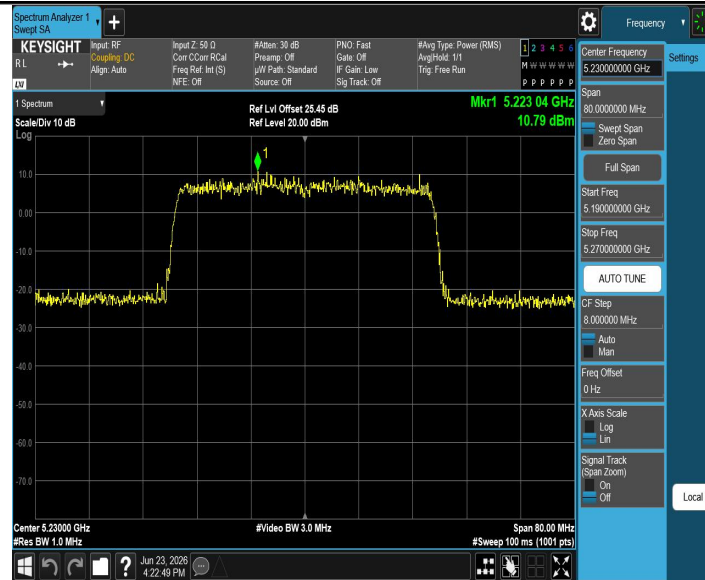




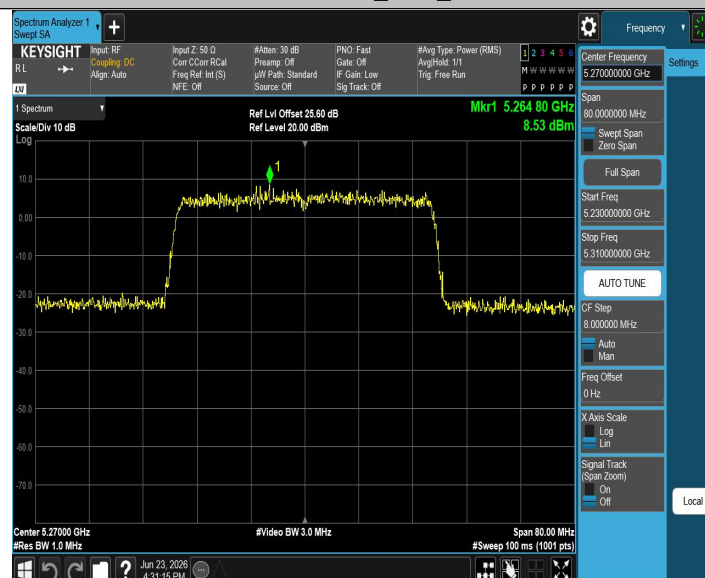
11AX40MIMO_Ant1_5230



11AX40MIMO_Ant2_5230

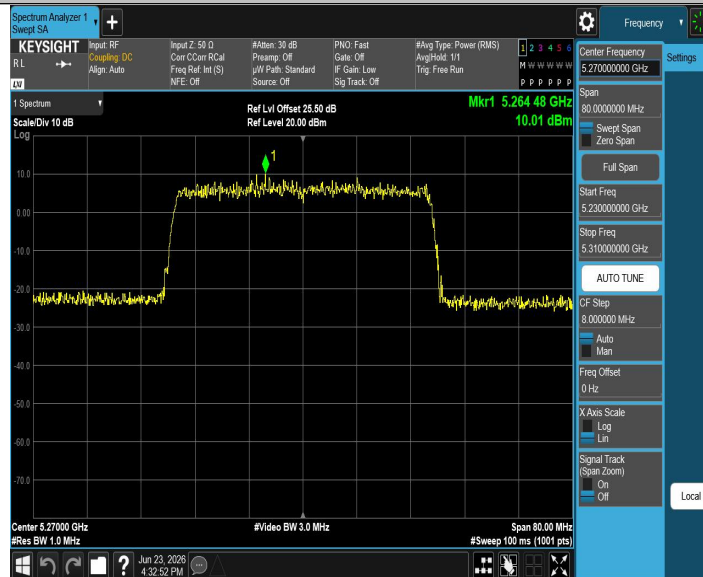


11AX40MIMO_Ant1_5270

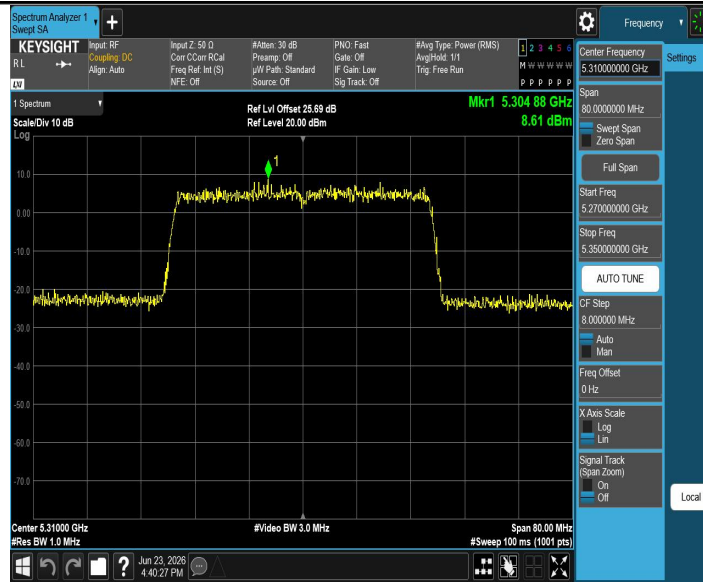




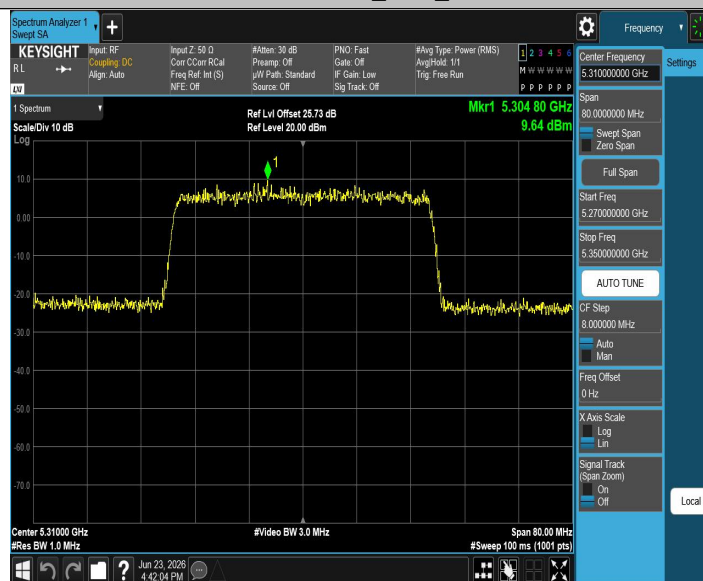
11AX40MIMO_Ant2_5270



11AX40MIMO_Ant1_5310

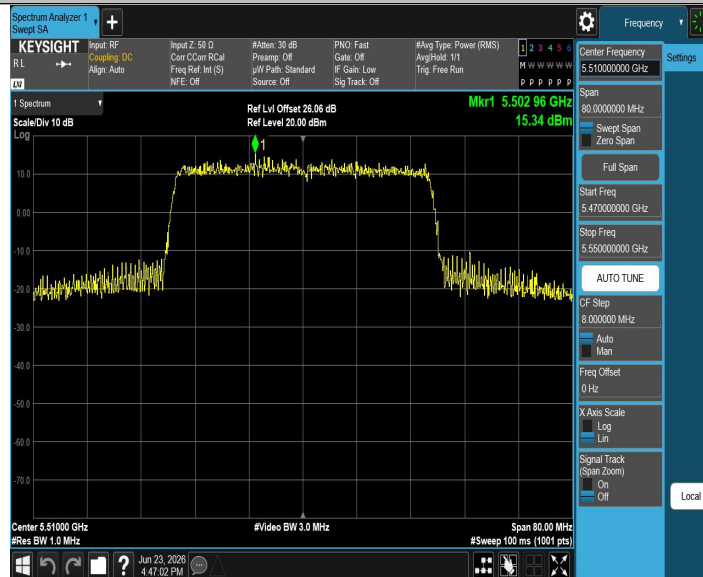


11AX40MIMO_Ant2_5310

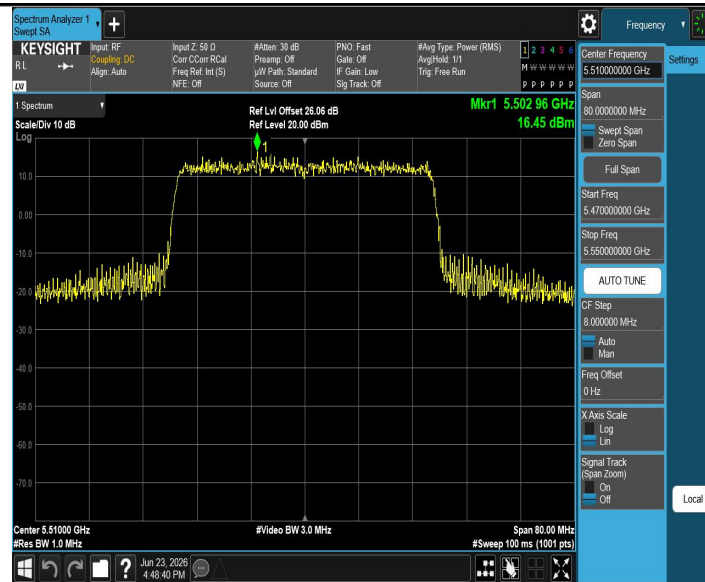




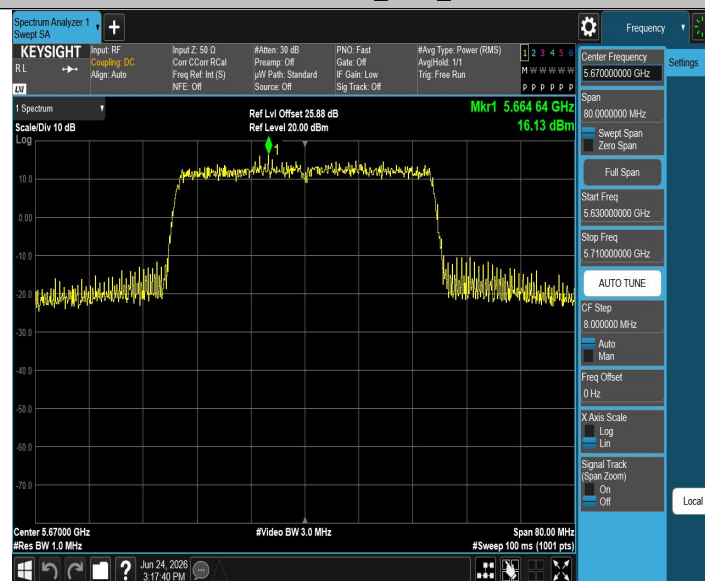
11AX40MIMO_Ant1_5510



11AX40MIMO_Ant2_5510

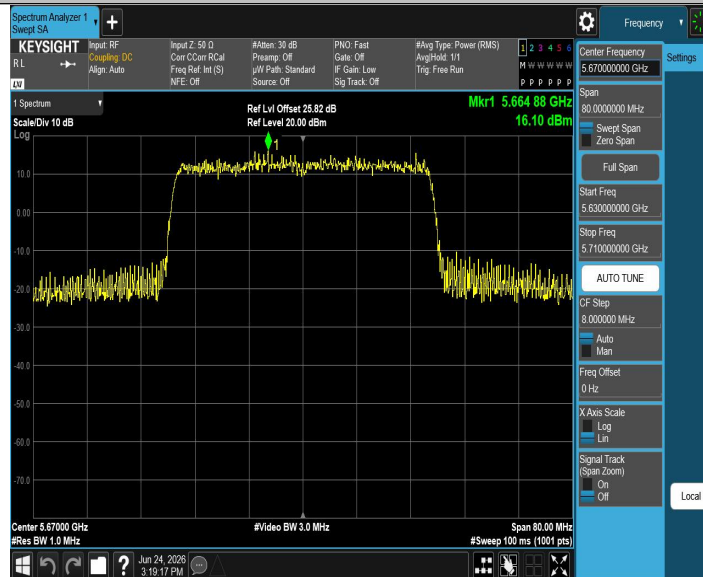


11AX40MIMO_Ant1_5670

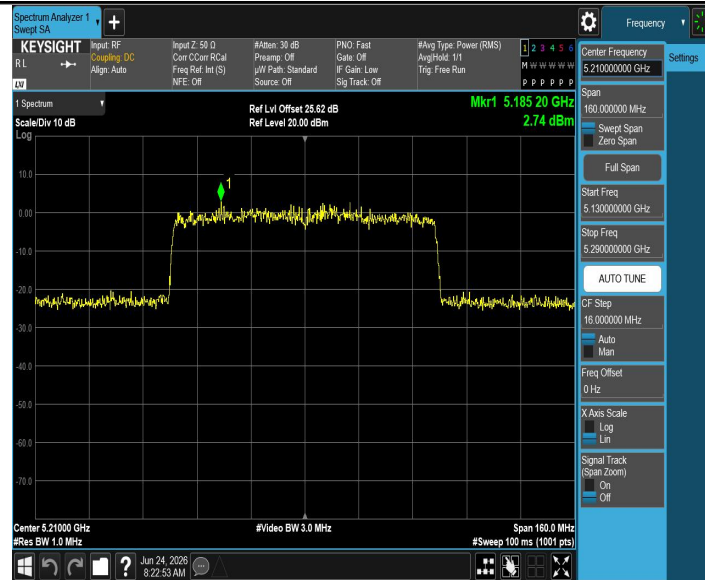




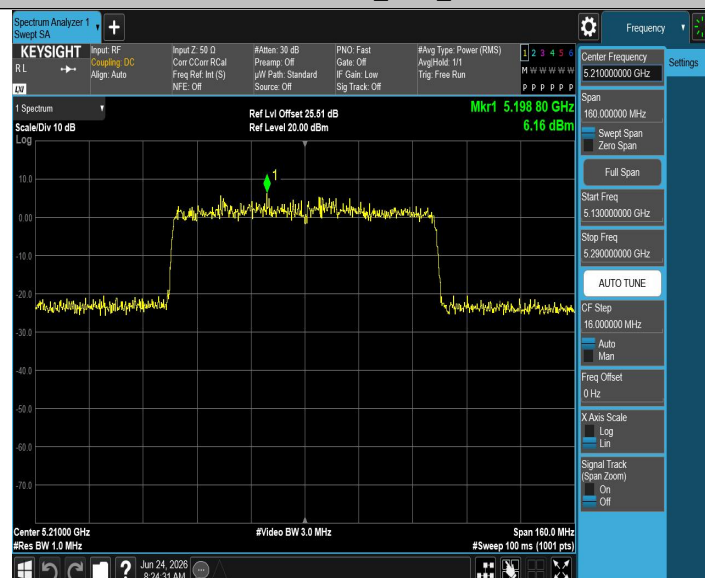
11AX40MIMO_Ant2_5670



11AX80MIMO_Ant1_5210

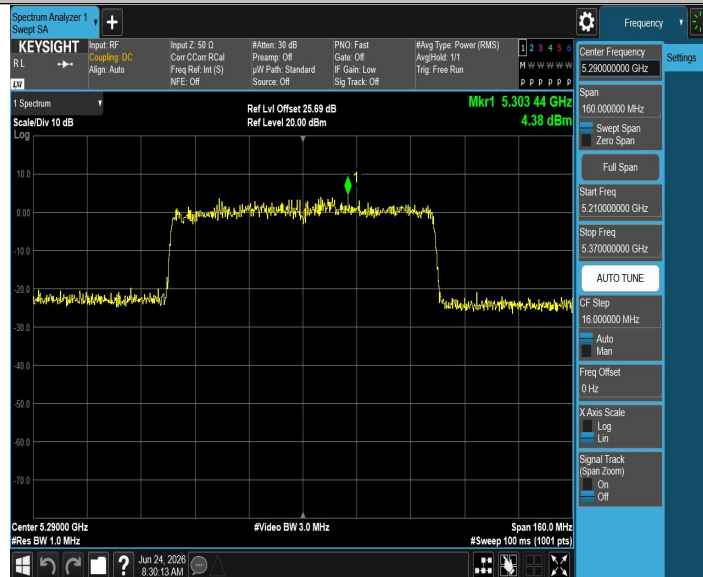


11AX80MIMO_Ant2_5210

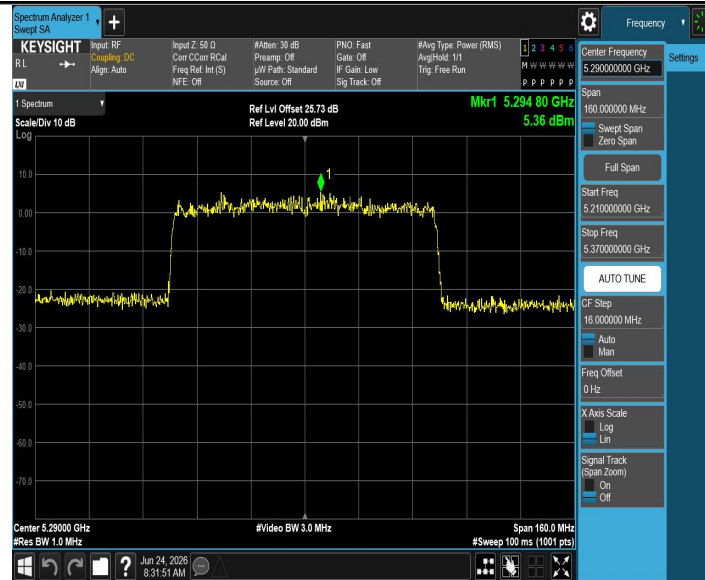




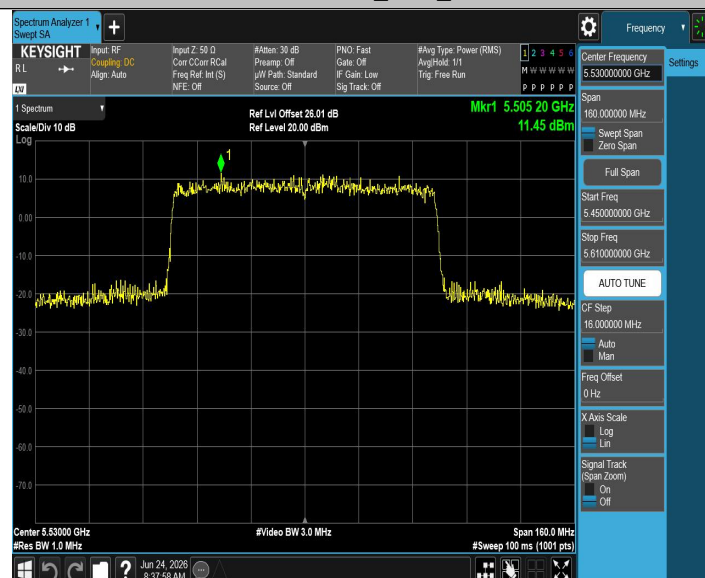
11AX80MIMO_Ant1_5290



11AX80MIMO_Ant2_5290

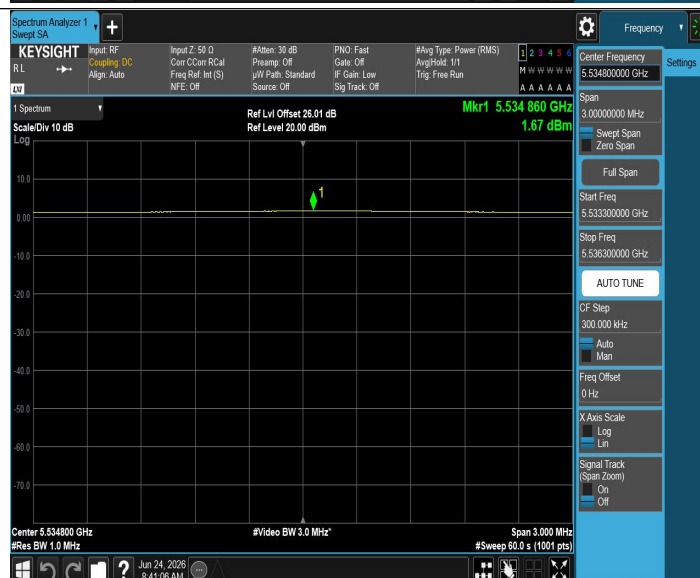
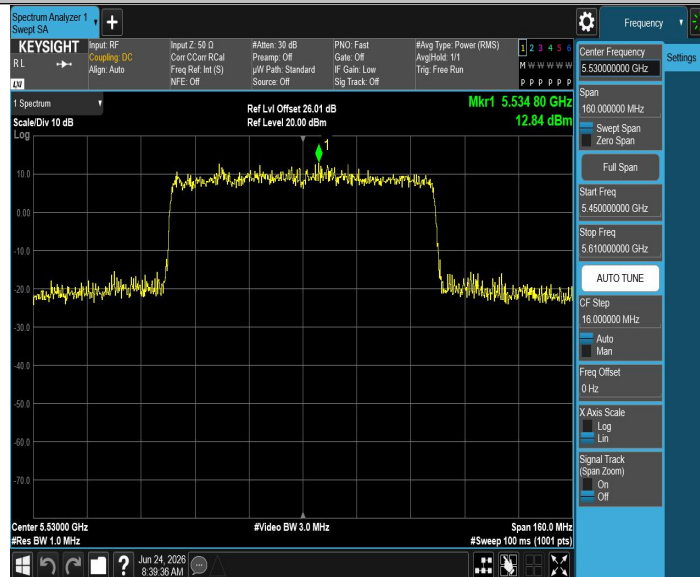


11AX80MIMO_Ant1_5530

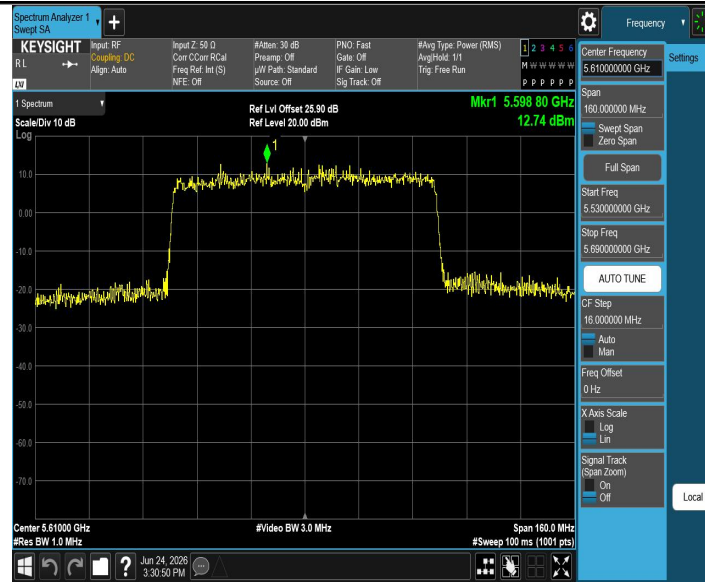




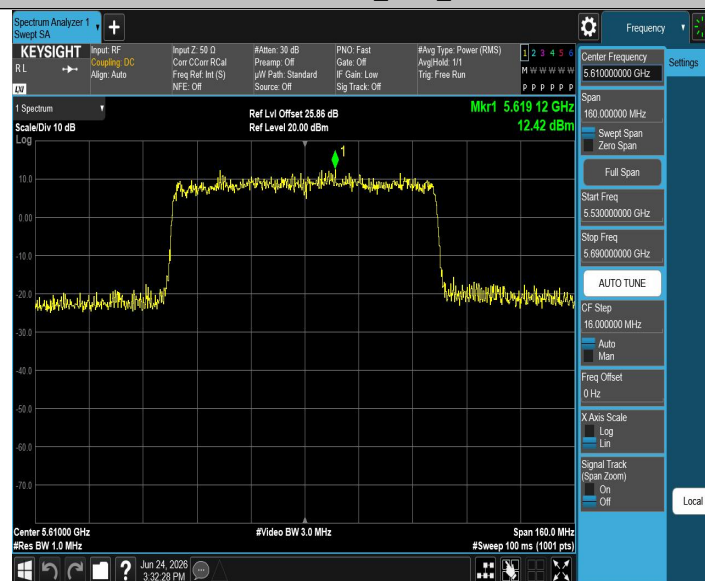
11AX80MIMO_Ant2_5530



11AX80MIMO_Ant1_5610

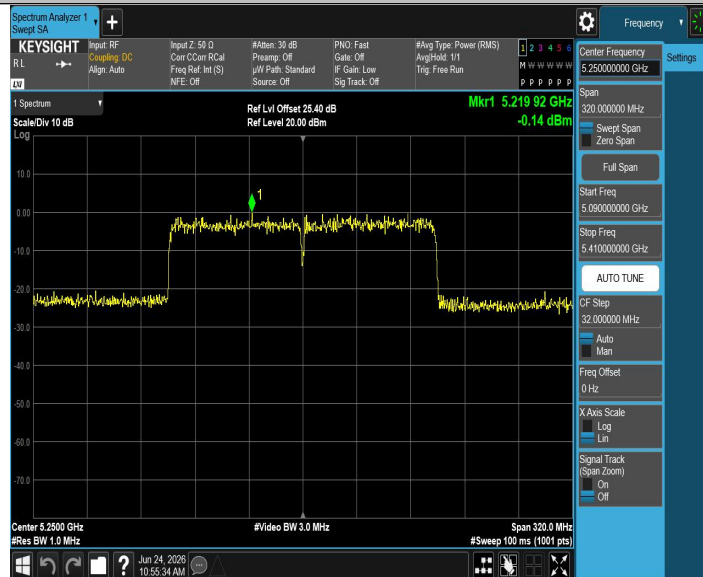


11AX80MIMO_Ant2_5610



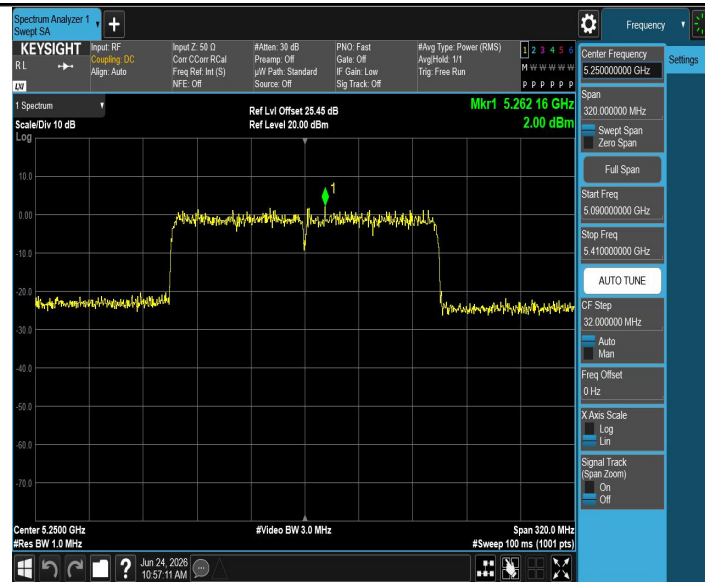


11AX160MIMO_Ant1_5250

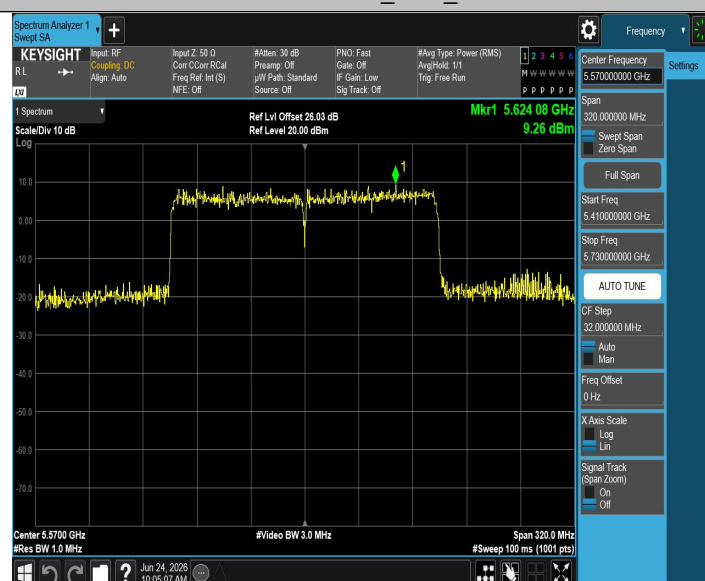


11AX160MIMO_Ant2_5250



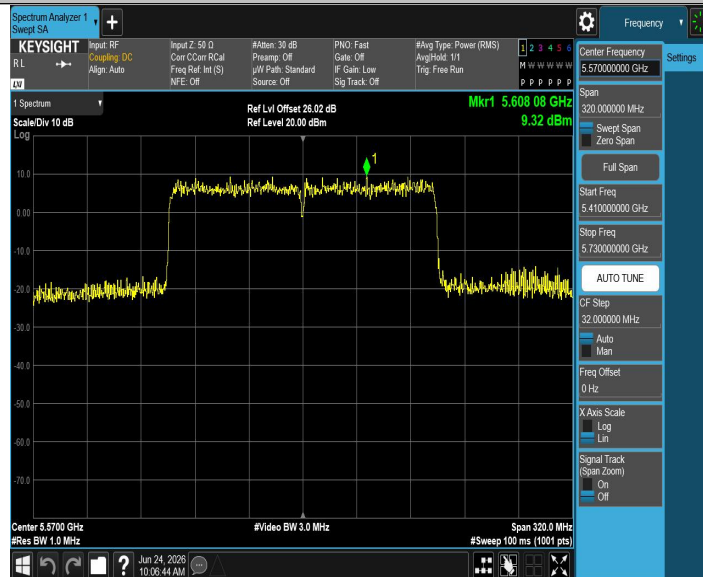


11AX160MIMO_Ant1_5570





11AX160MIMO_Ant2_5570



3.5 Transmitter Unwanted Emissions Outside the 5 GHz RLAN Bands (Refer to clause 4.2.4)

3.5.1 Limit

Transmitter Unwanted Emissions Outside The 5 GHz RLAN Bands Limit		
Frequency Range	Maximum Power	Bandwidth
30 MHz to 47 MHz	-36 dBm	100 kHz
47 MHz to 74 MHz	-54 dBm	100 kHz
74 MHz to 87,5 MHz	-36 dBm	100 kHz
87,5 MHz to 118 MHz	-54 dBm	100 kHz
118 MHz to 174 MHz	-36 dBm	100 kHz
174 MHz to 230 MHz	-54 dBm	100 kHz
230 MHz to 470 MHz	-36 dBm	100 kHz
470 MHz to 862 MHz	-54 dBm	100 kHz
862 MHz to 1 GHz	-36 dBm	100 kHz
1 GHz to 26 GHz	-30 dBm	1 MHz

3.5.2 Test Peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Record PC	Lenovo	M4000q	N/A

3.5.3 Test Procedure

Test Method	
☐ Conducted Measurement	☒ Radiated Measurement
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ● : Test ○ : No Test	

- The EUT was placed on the top of the turntable which the same height with the bi-log receiving antenna/ horn antenna in fully-anechoic chamber.
- The test shall be made in the transmissions mode. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- For spurious emissions measurement, the broad band bi-log receiving antenna was placed 3 meters far away from the turntable. (Below 1 GHz)
- For spurious emissions measurement, the receiving horn antenna was placed 3 meter far away from the turntable. (Above 1 GHz)
- Pre-scan with the spectrum analyzer settings as following:

30MHz~1GHz	
Spectrum Analyzer	Setting
Start Frequency	30 MHz
Stop Frequency	1 GHz
RBW / VBW	100 kHz / 300 kHz
Detector Mode	Peak

Trace Mode	Max Hold
Sweep Points	≥ 9700
Sweep Time	Auto

1GHz~ 26GHz	
Spectrum Analyzer	Setting
Start Frequency	1 GHz
Stop Frequency	26 GHz
RBW / VBW	1 MHz / 3 MHz
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Points	≥ 25000
Sweep Time	Auto

f) Wait for the trace to stabilize. Any emissions identified that have a margin of less than 6 dB with respect to the limits given in clause 4.2.5.2, should be implement step g to step h , spectrum analyzer settings of accurately measure as following:

Measurement mode	Time Domain Power
Centre Frequency	Frequency of the emission identified during the pre-scan
RBW	100 kHz (emissions < 1 GHz) / 1 MHz (emissions > 1 GHz)
VBW	300 kHz (emissions < 1 GHz) / 3 MHz (emissions > 1 GHz)
Frequency Span	Zero Span
Sweep mode	Single Sweep
Sweep time	Suitable to capture one transmission burst. Additional measurements may be needed to identify the length of the transmission burst.
Sweep Points	Sweep time [μ s] / 1 μ s with a maximum of 30 000
Trigger	Video
Detector	RMS
Trace Mode	Clear/Write

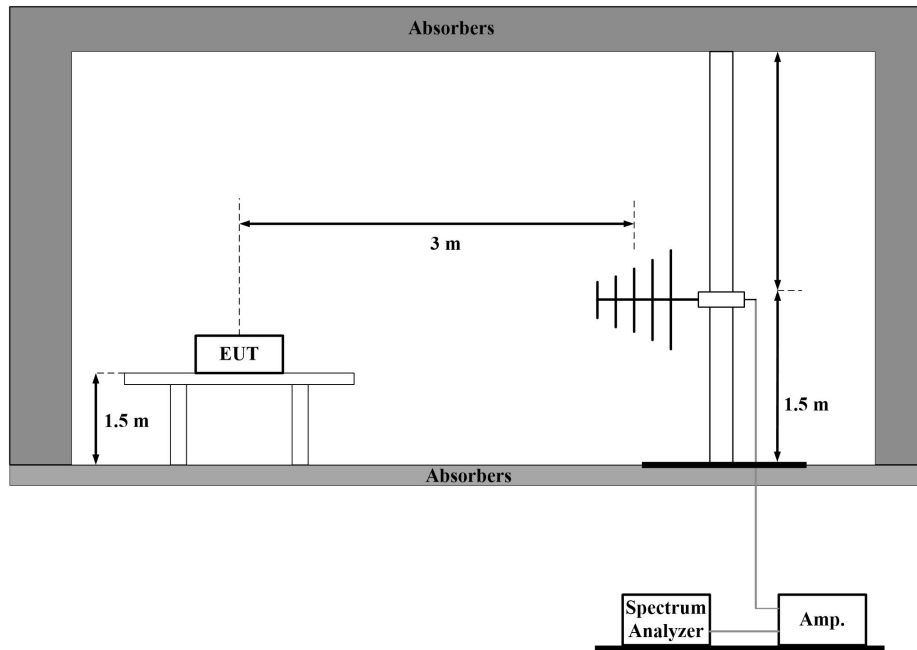
g) Adjust the centre frequency (fine tune) to capture the highest level of one burst of the emission to be measured.

h) Set a window where the start and stop indicators match the start and end of the burst with the highest level and record the value of the power measured within this window.

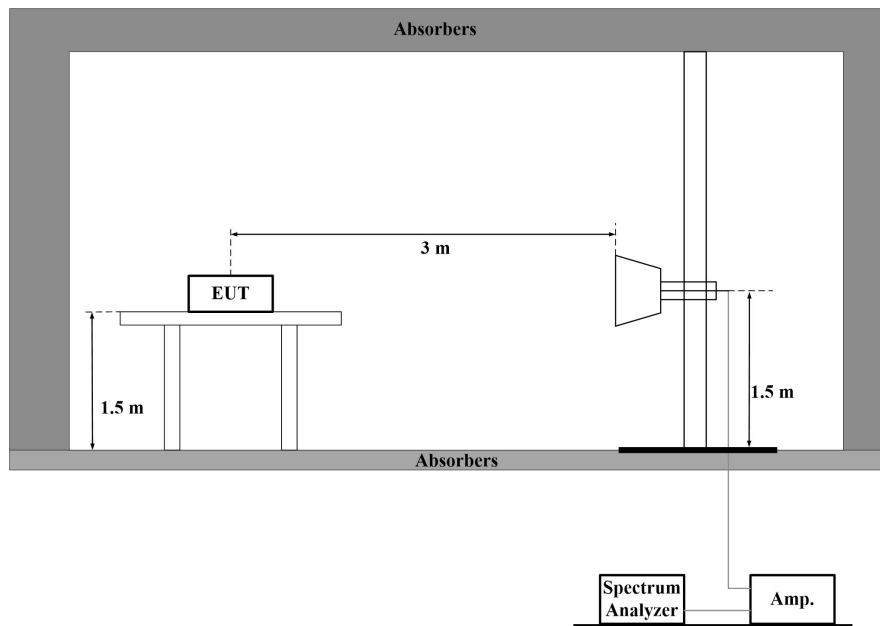
i) The value defined in step h shall be compared to the limits defined in clause 4.2.5.2

3.5.4 Test Configuration

Radiated measurement test set-up frequency below 1 GHz



Radiated measurement test set-up frequency above 1 GHz



3.5.5 Test Result of Radiated Unwanted Emissions

NOTE: The test results and plot for testing range of “30 MHz to 26 GHz” showed as below is part of the worst case for all Test Modes and Channels.

3.5.5.1 Test Result

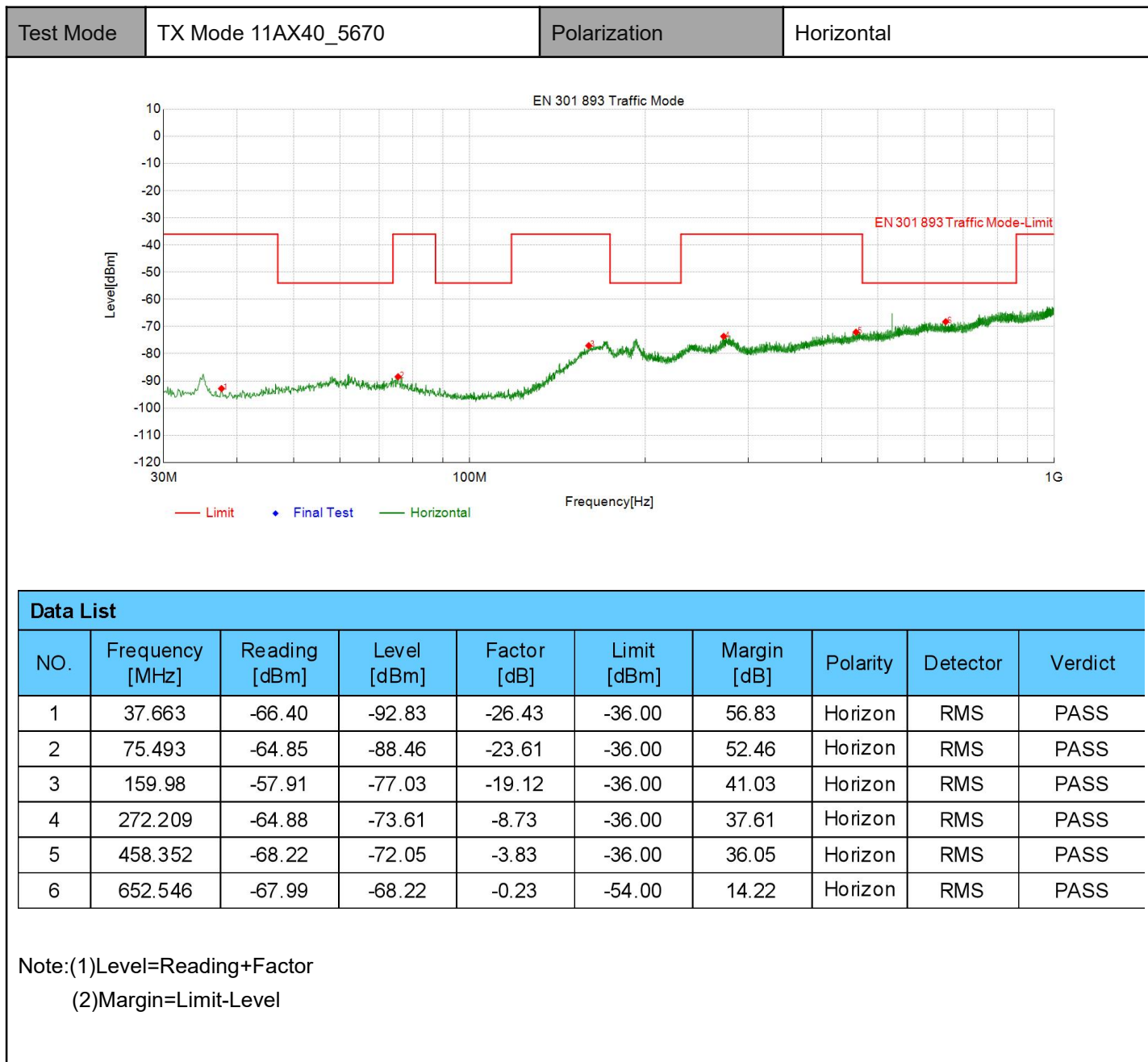
TestMode	Antenna	Test Channel (MHz)	Result [dBm]	Limit[dBm]	Verdict
11A-CDD	All	5180	See test graph	See test graph	PASS
11A-CDD	All	5320	See test graph	See test graph	PASS
11A-CDD	All	5500	See test graph	See test graph	PASS
11A-CDD	All	5700	See test graph	See test graph	PASS
11N20MIMO	All	5180	See test graph	See test graph	PASS
11N20MIMO	All	5320	See test graph	See test graph	PASS
11N20MIMO	All	5500	See test graph	See test graph	PASS
11N20MIMO	All	5700	See test graph	See test graph	PASS
11N40MIMO	All	5190	See test graph	See test graph	PASS
11N40MIMO	All	5310	See test graph	See test graph	PASS
11N40MIMO	All	5510	See test graph	See test graph	PASS
11N40MIMO	All	5670	See test graph	See test graph	PASS
11AC20MIMO	All	5180	See test graph	See test graph	PASS
11AC20MIMO	All	5320	See test graph	See test graph	PASS
11AC20MIMO	All	5500	See test graph	See test graph	PASS
11AC20MIMO	All	5700	See test graph	See test graph	PASS
11AC40MIMO	All	5190	See test graph	See test graph	PASS
11AC40MIMO	All	5310	See test graph	See test graph	PASS
11AC40MIMO	All	5510	See test graph	See test graph	PASS
11AC40MIMO	All	5670	See test graph	See test graph	PASS
11AC80MIMO	All	5210	See test graph	See test graph	PASS
11AC80MIMO	All	5290	See test graph	See test graph	PASS
11AC80MIMO	All	5530	See test graph	See test graph	PASS
11AC80MIMO	All	5610	See test graph	See test graph	PASS
11AC160MIMO	All	5250	See test graph	See test graph	PASS
11AC160MIMO	All	5570	See test graph	See test graph	PASS
11AX20MIMO	All	5180	See test graph	See test graph	PASS
11AX20MIMO	All	5320	See test graph	See test graph	PASS
11AX20MIMO	All	5500	See test graph	See test graph	PASS
11AX20MIMO	All	5700	See test graph	See test graph	PASS
11AX40MIMO	All	5190	See test graph	See test graph	PASS
11AX40MIMO	All	5310	See test graph	See test graph	PASS
11AX40MIMO	All	5510	See test graph	See test graph	PASS
11AX40MIMO	All	5670	See test graph	See test graph	PASS
11AX80MIMO	All	5210	See test graph	See test graph	PASS
11AX80MIMO	All	5290	See test graph	See test graph	PASS

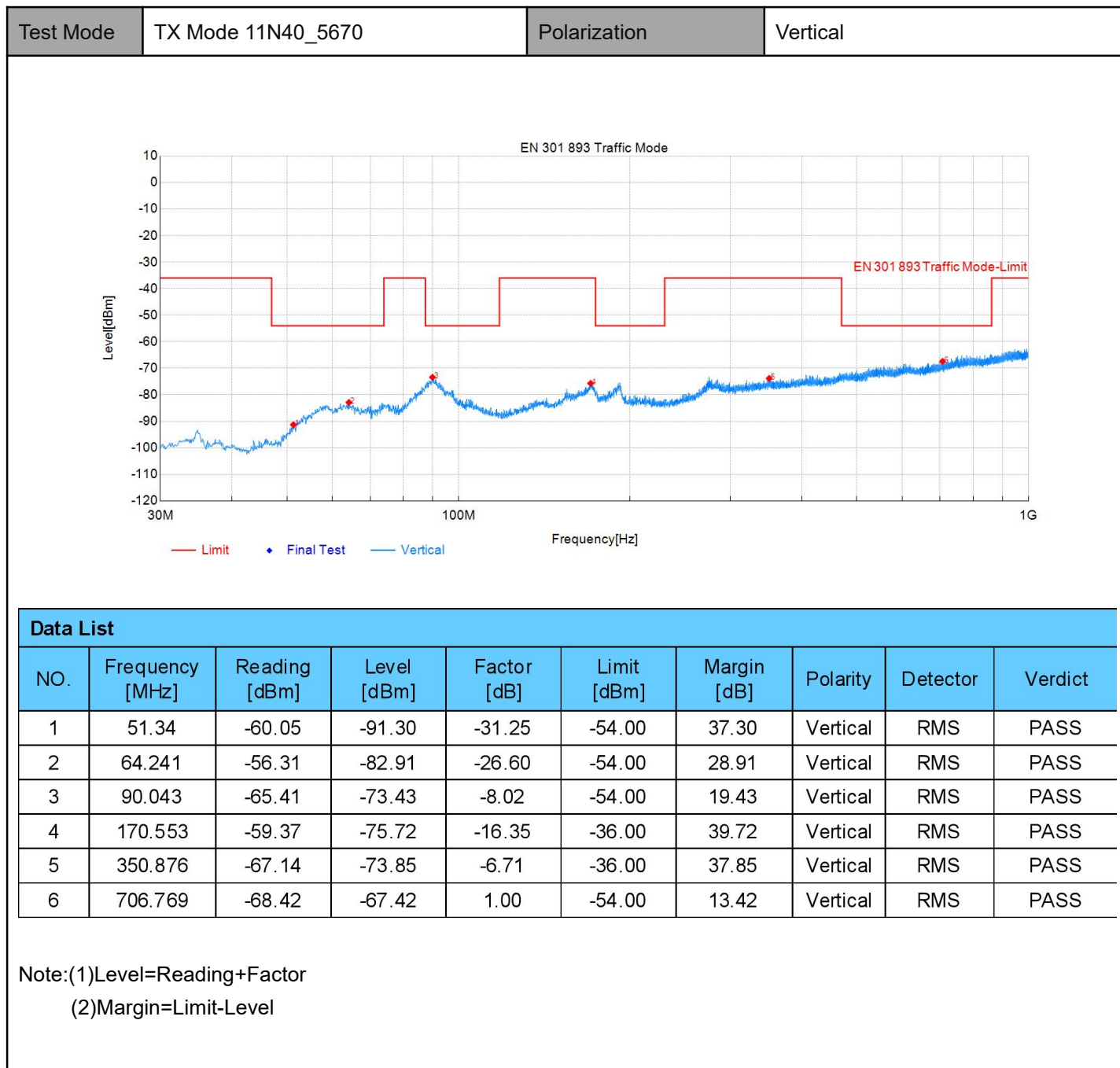
11AX80MIMO	All	5530	See test graph	See test graph	PASS
11AX80MIMO	All	5610	See test graph	See test graph	PASS
11AX160MIMO	All	5250	See test graph	See test graph	PASS
11AX160MIMO	All	5570	See test graph	See test graph	PASS

Note:1.By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that “X axis” position was the worst, and test data recorded in this report.

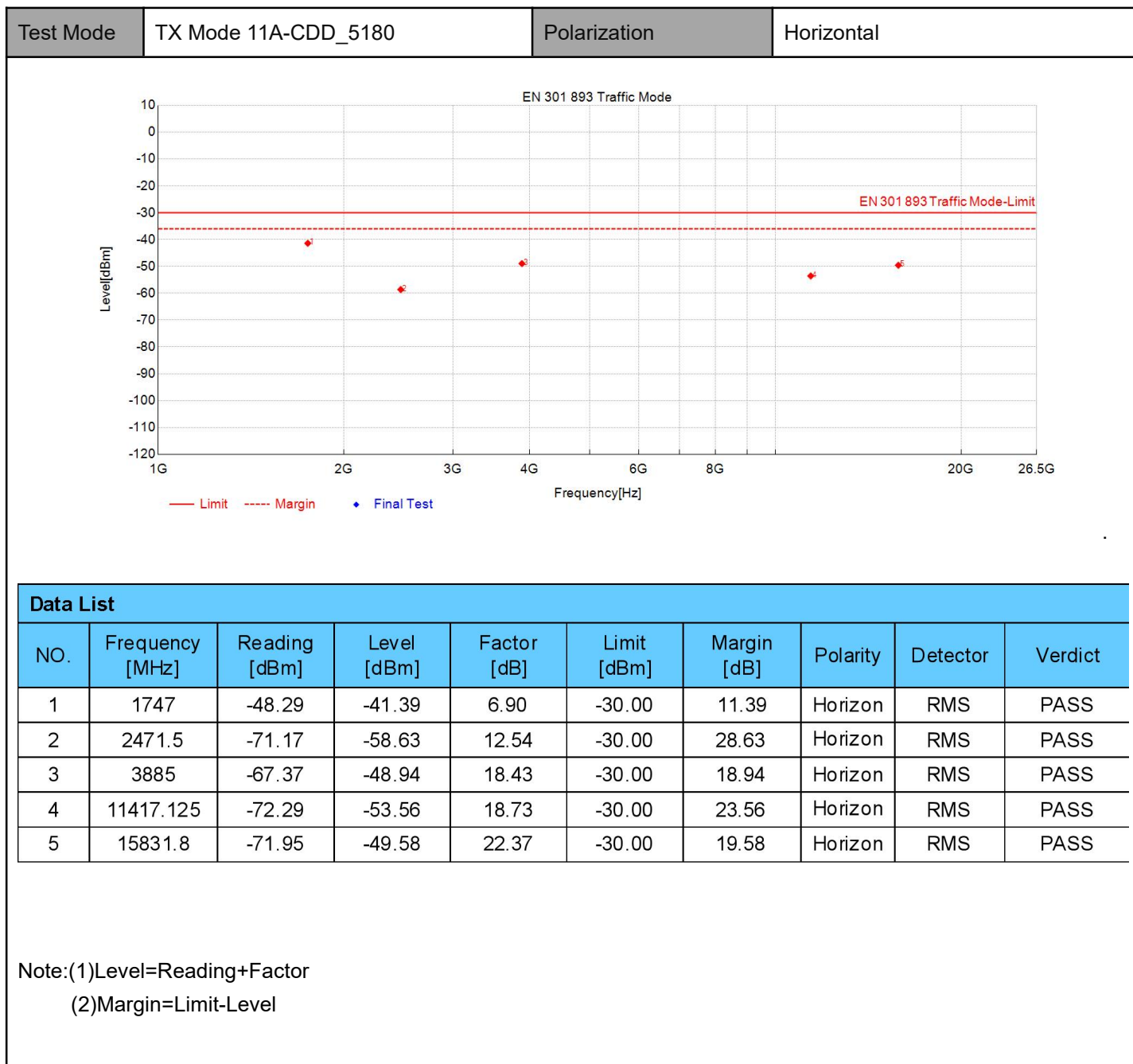
3.5.5.2 Test Graphs

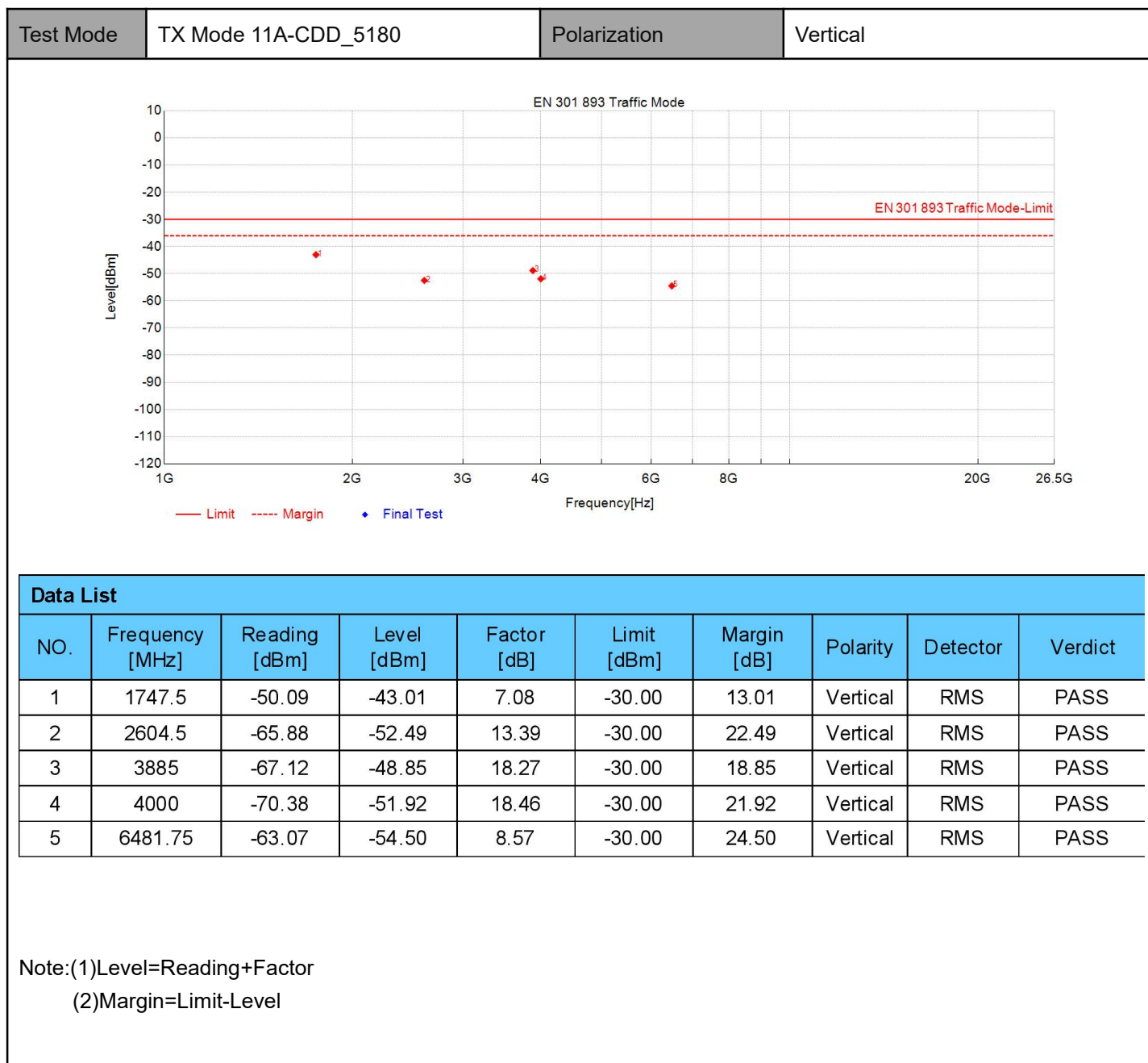
30 MHz to 1 GHz :

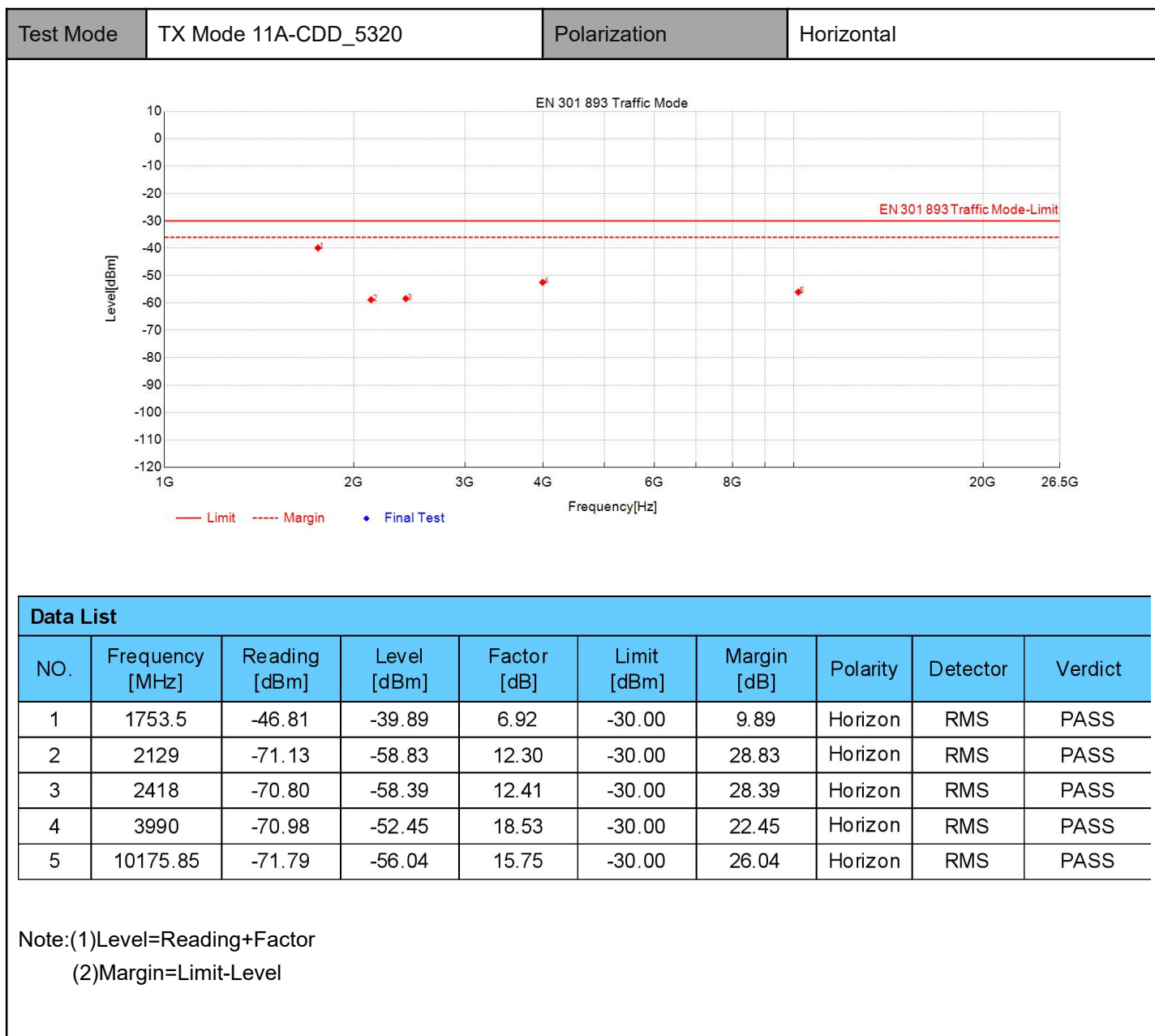


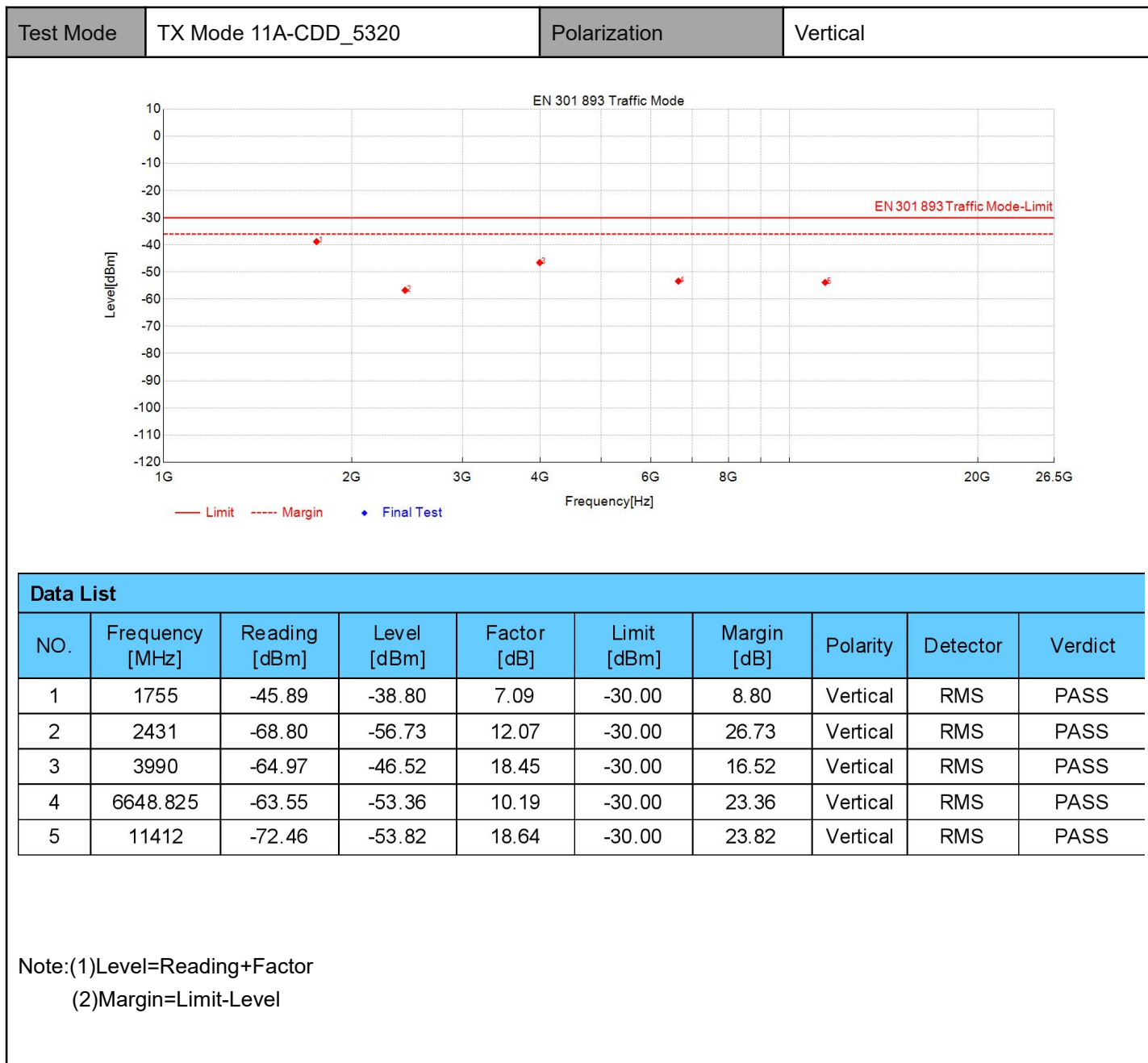


1 GHz to 26 GHz :

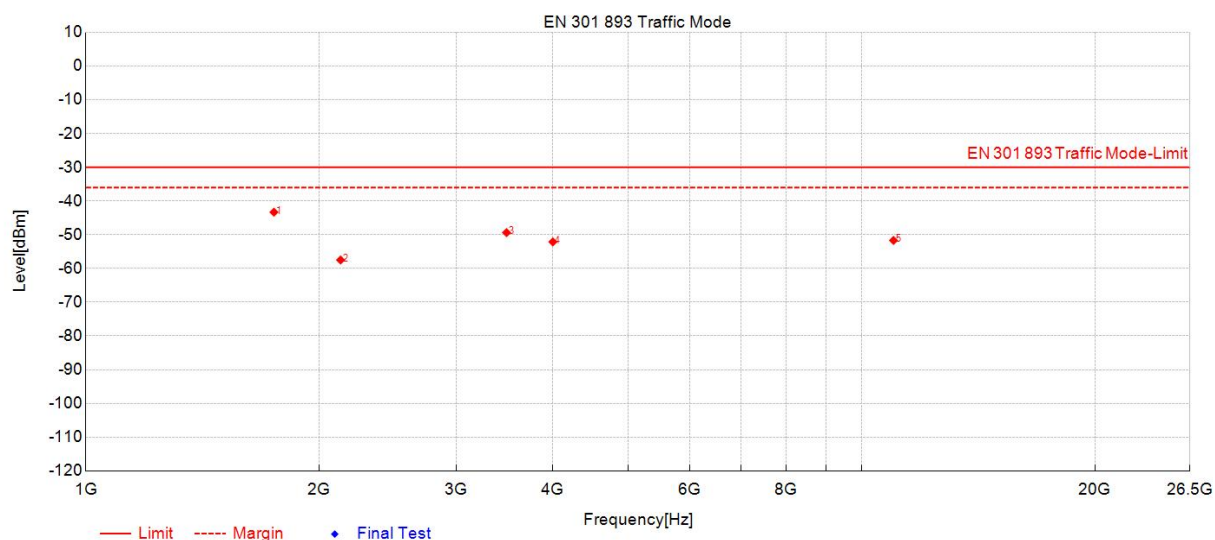








Test Mode	TX Mode 11A-CDD_5500	Polarization	Horizontal
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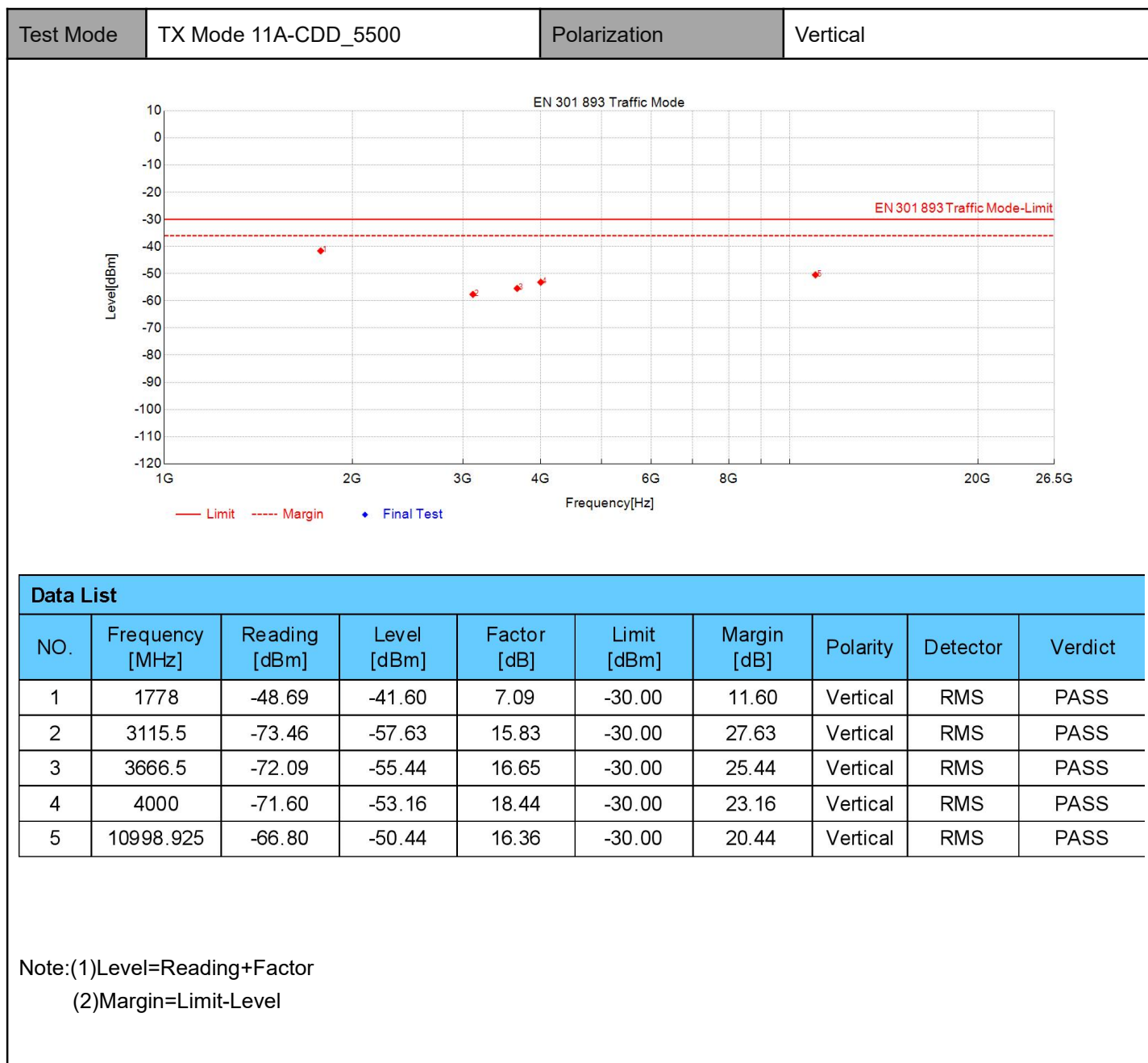


Data List

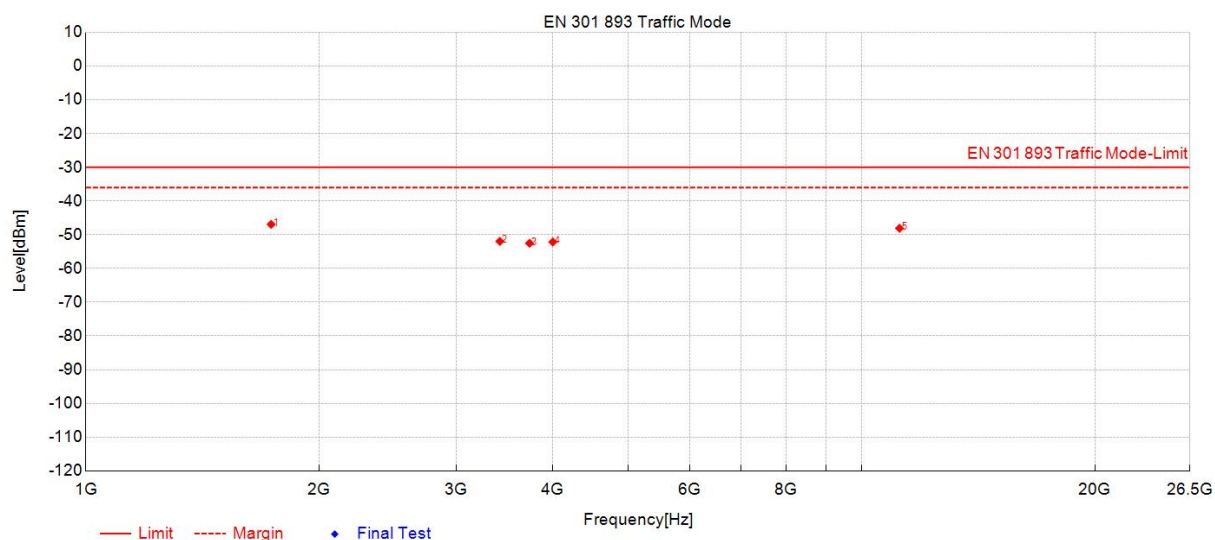
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1747.5	-50.24	-43.31	6.93	-30.00	13.31	Horizon	RMS	PASS
2	2130	-69.74	-57.48	12.26	-30.00	27.48	Horizon	RMS	PASS
3	3486.5	-64.97	-49.36	15.61	-30.00	19.36	Horizon	RMS	PASS
4	4000	-70.63	-52.12	18.51	-30.00	22.12	Horizon	RMS	PASS
5	11000.975	-68.92	-51.68	17.24	-30.00	21.68	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11A-CDD_5700	Polarization	Horizontal
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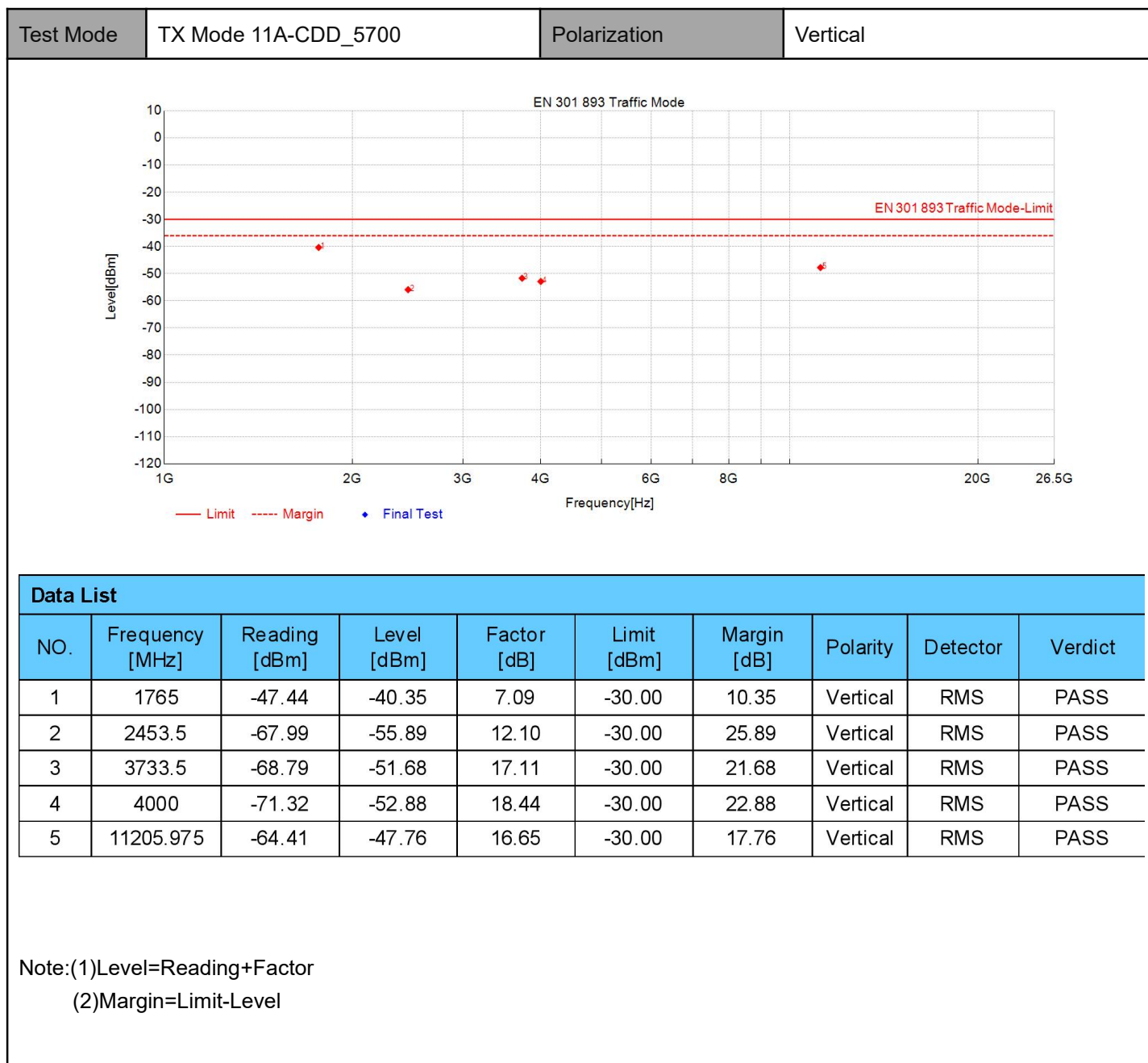


Data List

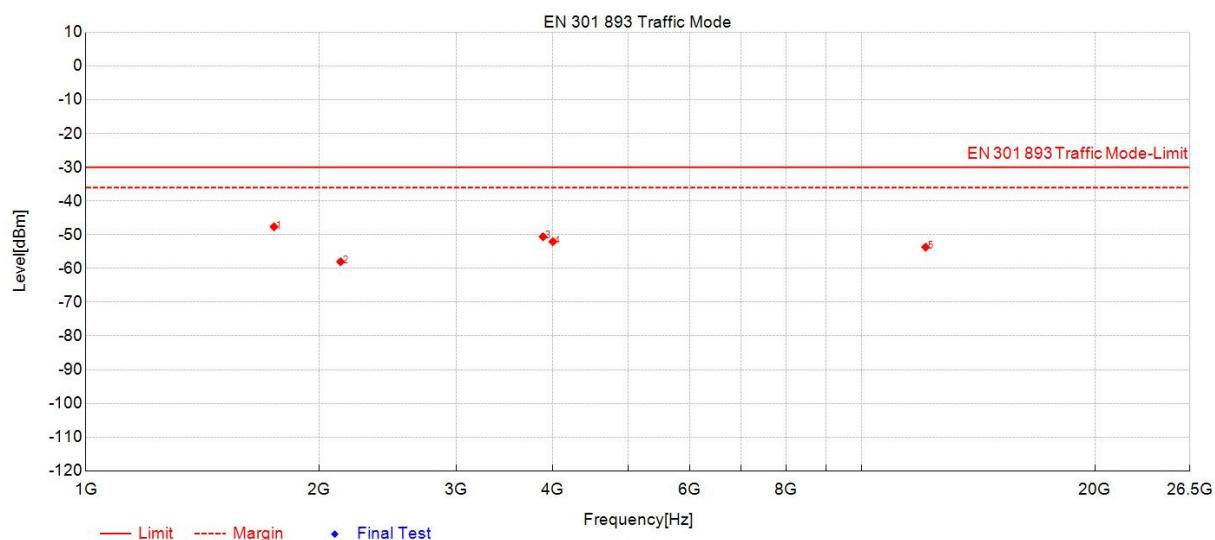
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1733	-53.83	-46.92	6.91	-30.00	16.92	Horizon	RMS	PASS
2	3417.5	-67.48	-51.95	15.53	-30.00	21.95	Horizon	RMS	PASS
3	3733.5	-69.50	-52.52	16.98	-30.00	22.52	Horizon	RMS	PASS
4	4000	-70.66	-52.15	18.51	-30.00	22.15	Horizon	RMS	PASS
5	11199.825	-65.07	-48.08	16.99	-30.00	18.08	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11N20MIMO_5180	Polarization	Horizontal
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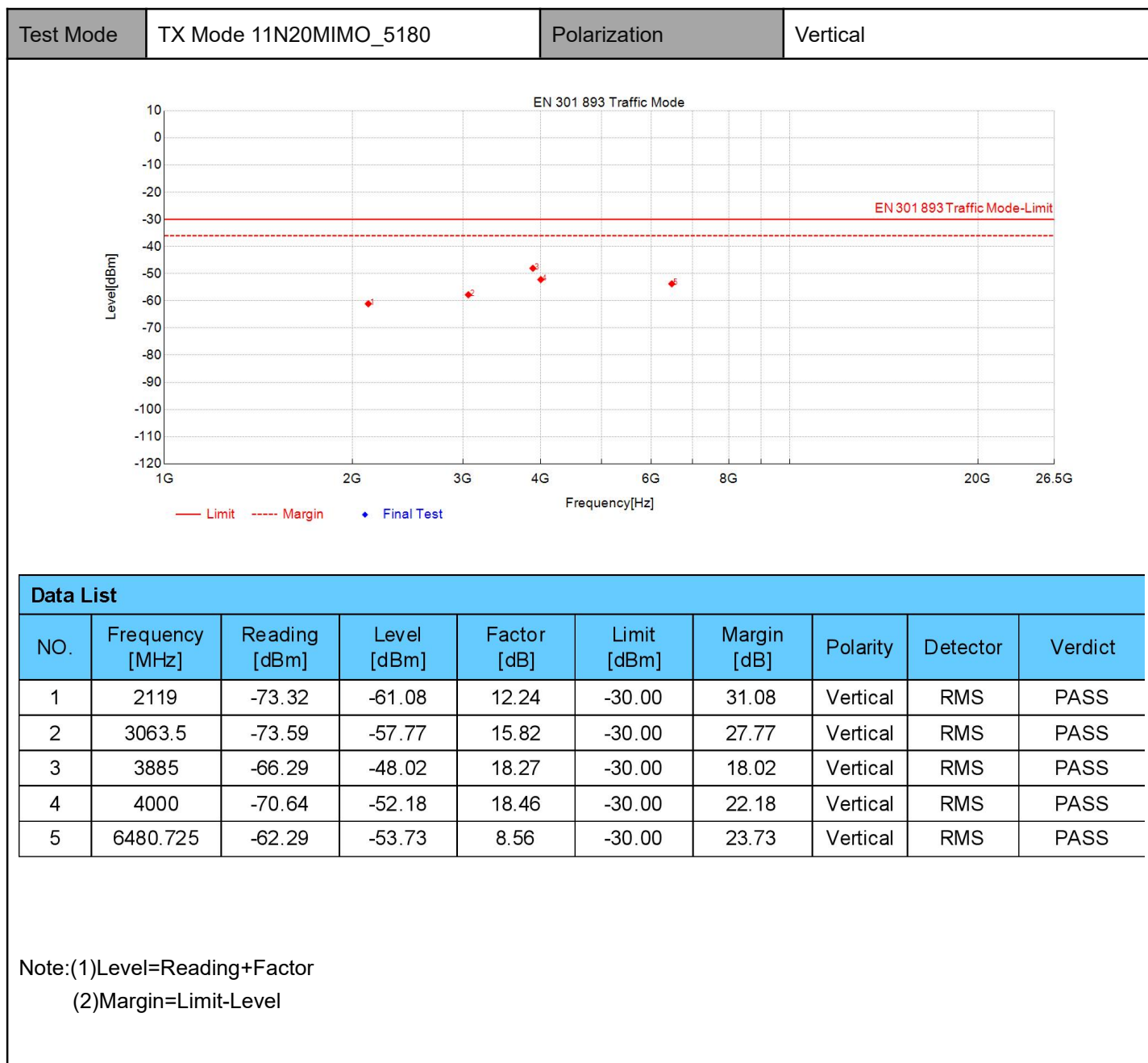


Data List

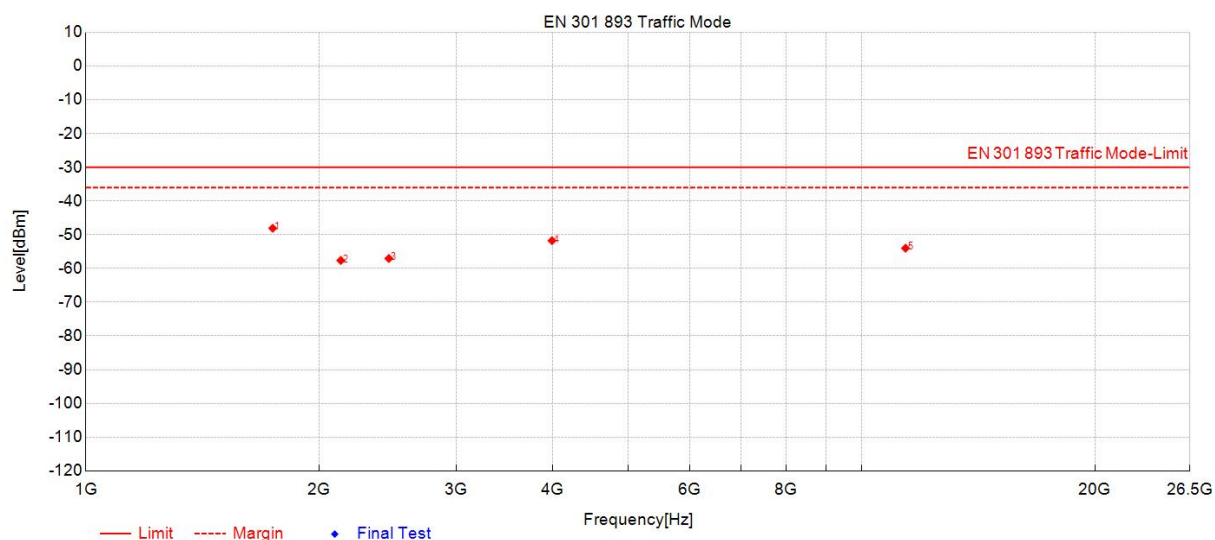
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1748	-54.54	-47.64	6.90	-30.00	17.64	Horizon	RMS	PASS
2	2130	-70.29	-58.00	12.29	-30.00	28.00	Horizon	RMS	PASS
3	3885	-69.03	-50.60	18.43	-30.00	20.60	Horizon	RMS	PASS
4	4000	-70.58	-52.05	18.53	-30.00	22.05	Horizon	RMS	PASS
5	12100.8	-73.13	-53.67	19.46	-30.00	23.67	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11N20MIMO_5320	Polarization	Horizontal
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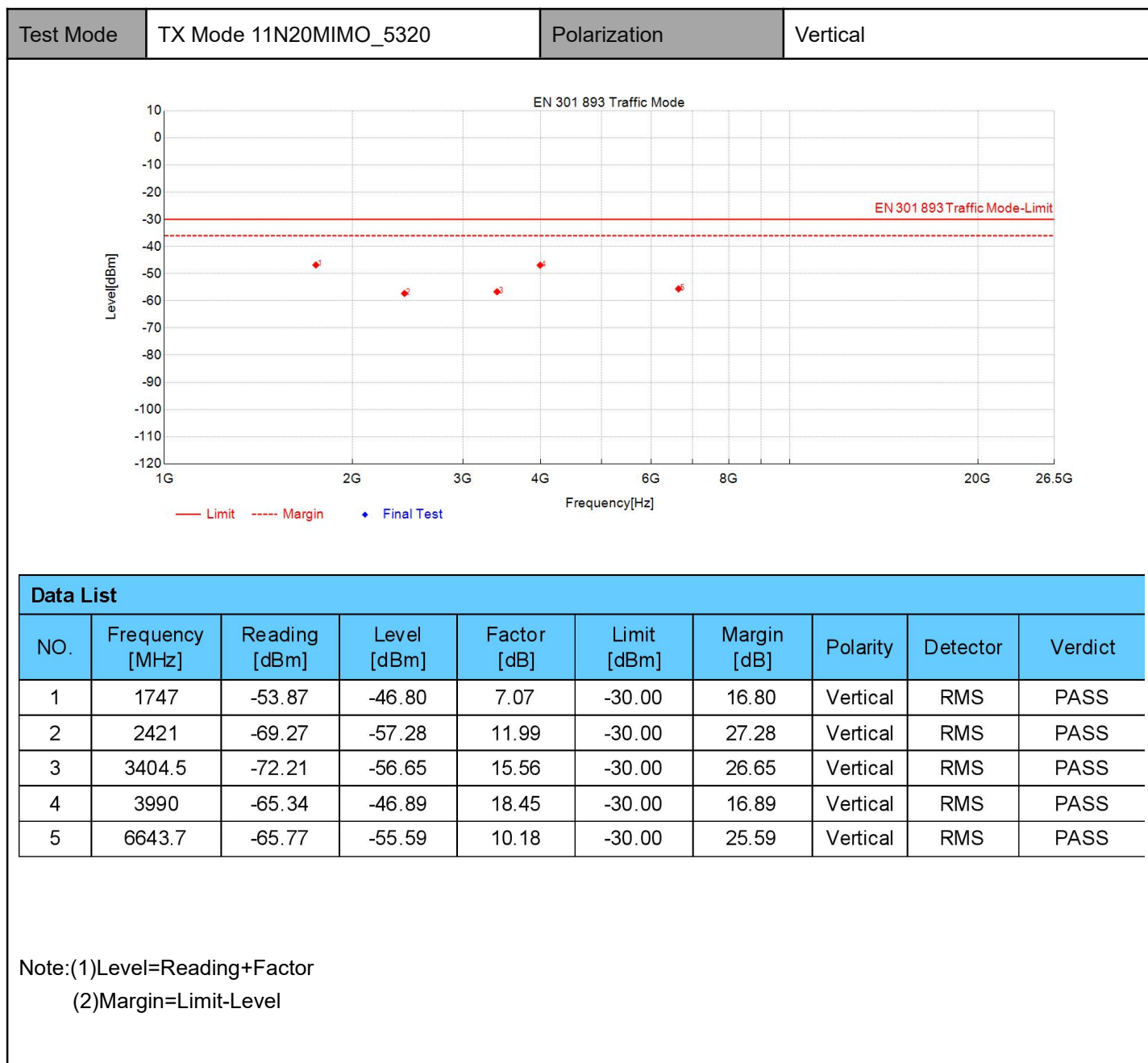


Data List

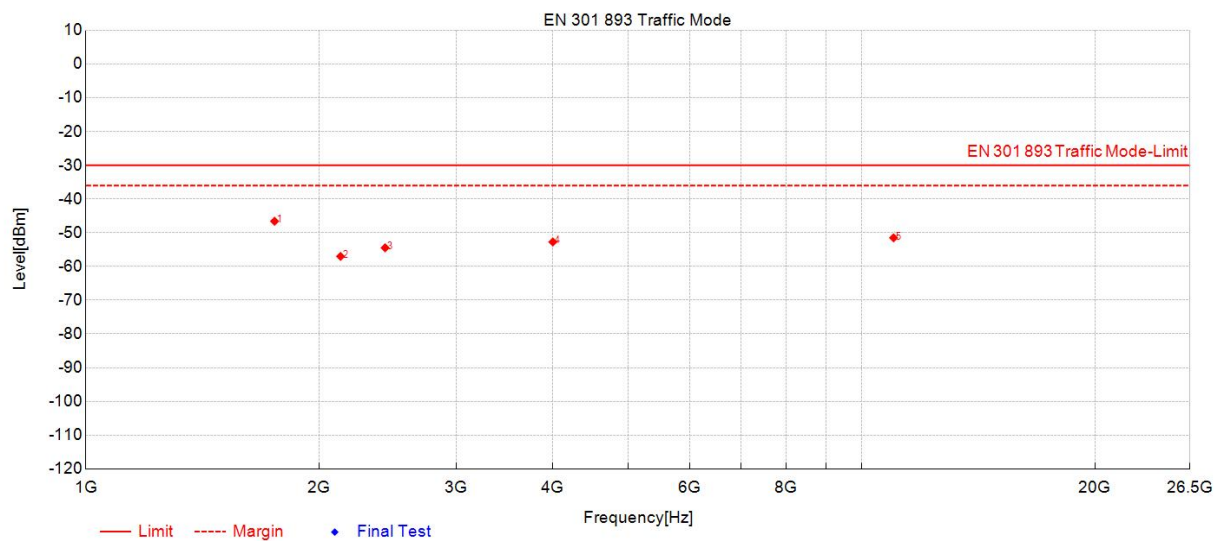
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1741	-54.96	-48.07	6.89	-30.00	18.07	Horizon	RMS	PASS
2	2131	-69.90	-57.61	12.29	-30.00	27.61	Horizon	RMS	PASS
3	2458	-69.55	-57.04	12.51	-30.00	27.04	Horizon	RMS	PASS
4	3990	-70.29	-51.76	18.53	-30.00	21.76	Horizon	RMS	PASS
5	11399.7	-72.93	-53.99	18.94	-30.00	23.99	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11N20MIMO_5500	Polarization	Horizontal
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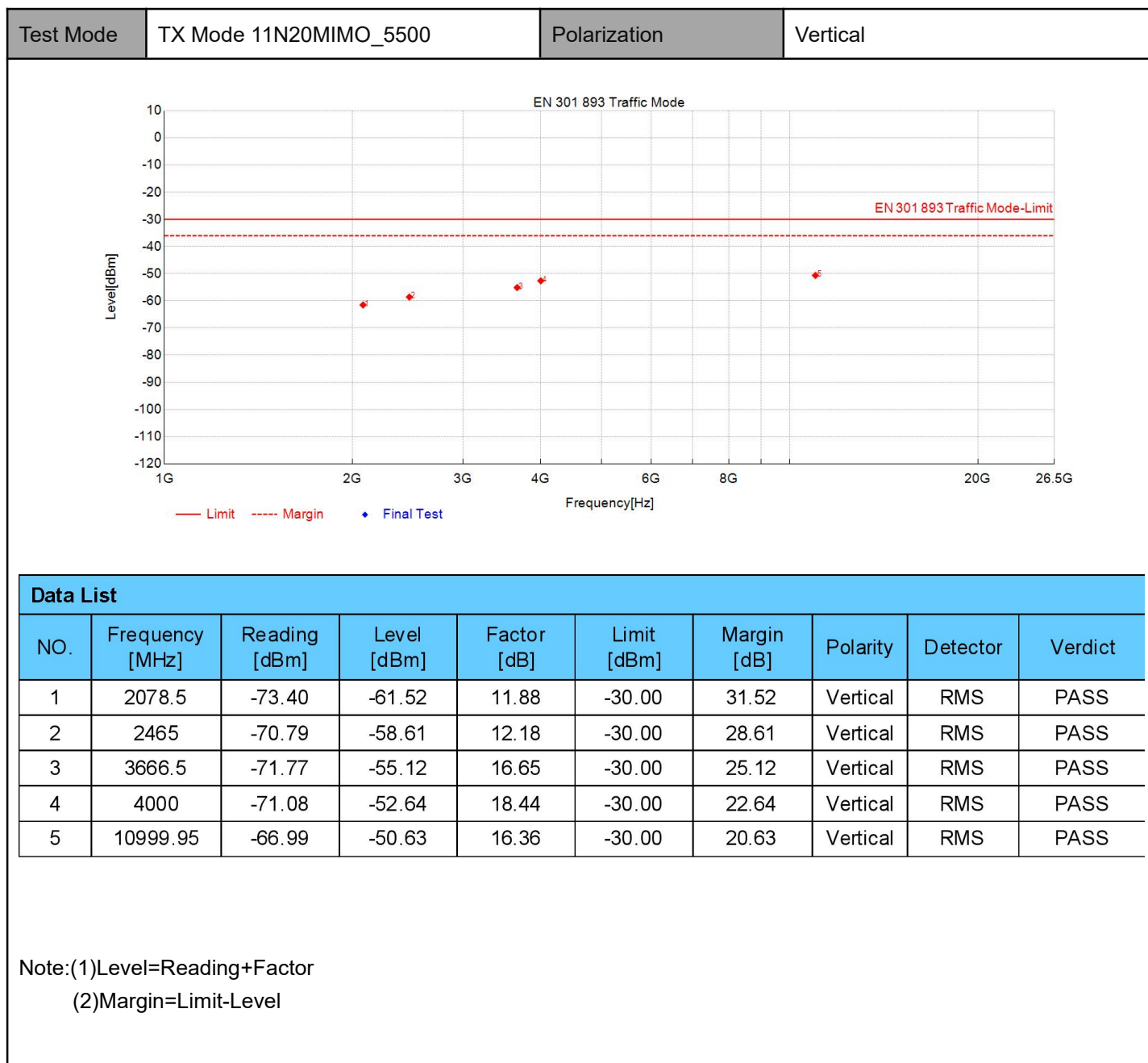


Data List

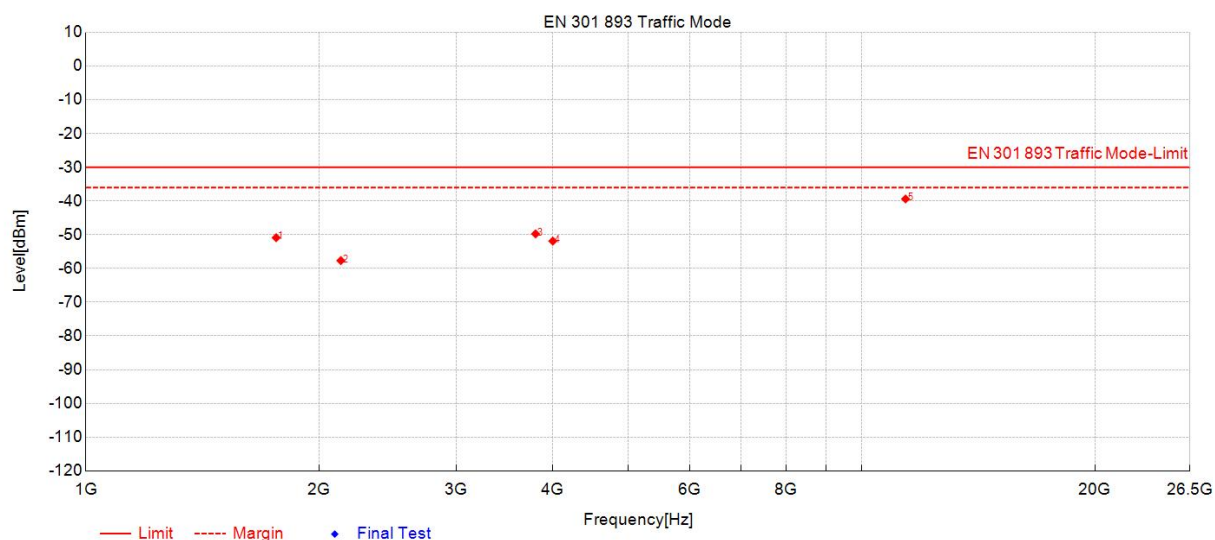
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1750.5	-53.50	-46.58	6.92	-30.00	16.58	Horizon	RMS	PASS
2	2129.5	-69.27	-57.01	12.26	-30.00	27.01	Horizon	RMS	PASS
3	2431	-66.76	-54.46	12.30	-30.00	24.46	Horizon	RMS	PASS
4	4000	-71.24	-52.73	18.51	-30.00	22.73	Horizon	RMS	PASS
5	11003.025	-68.75	-51.51	17.24	-30.00	21.51	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11N20MIMO_5700	Polarization	Horizontal
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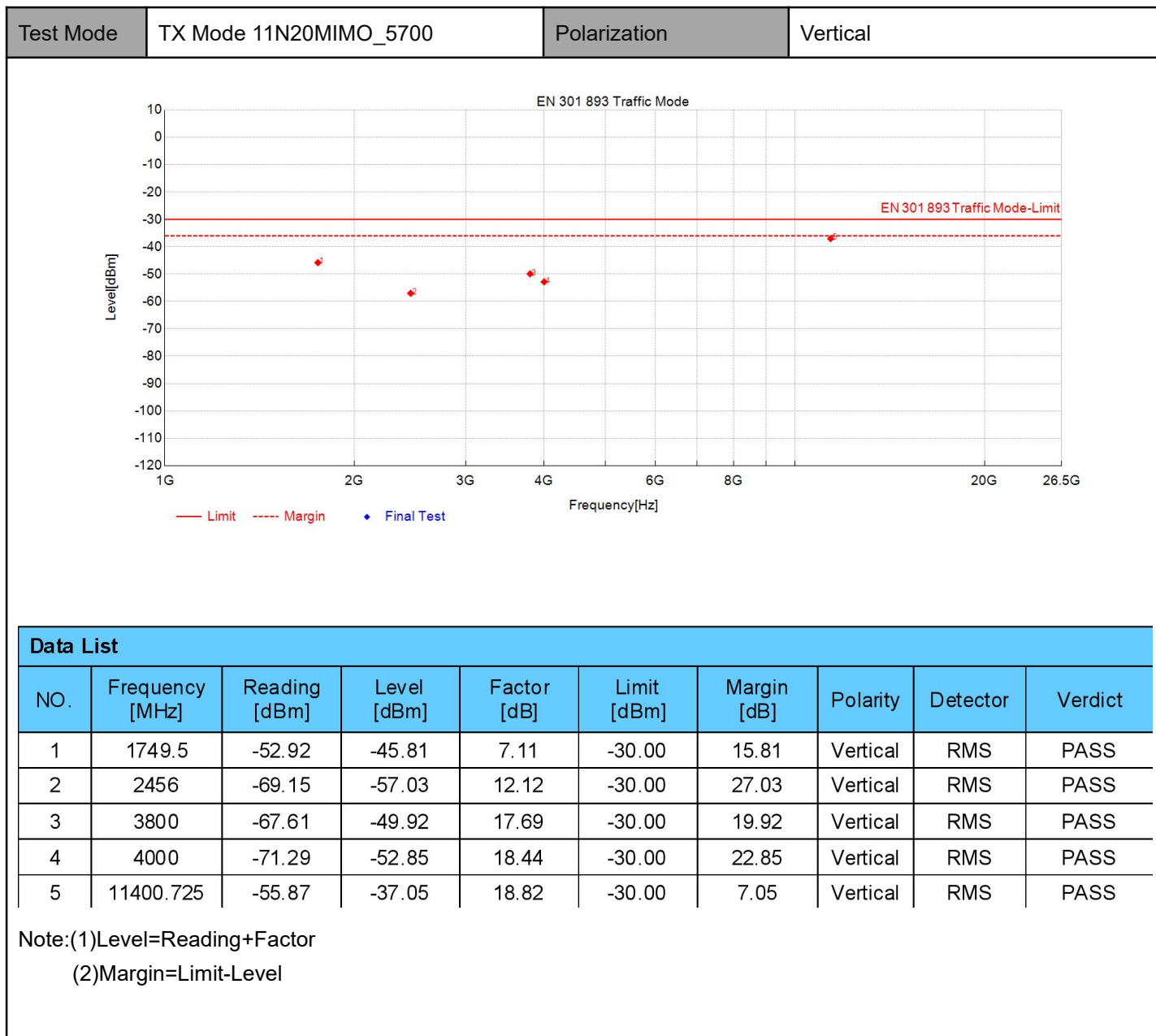


Data List

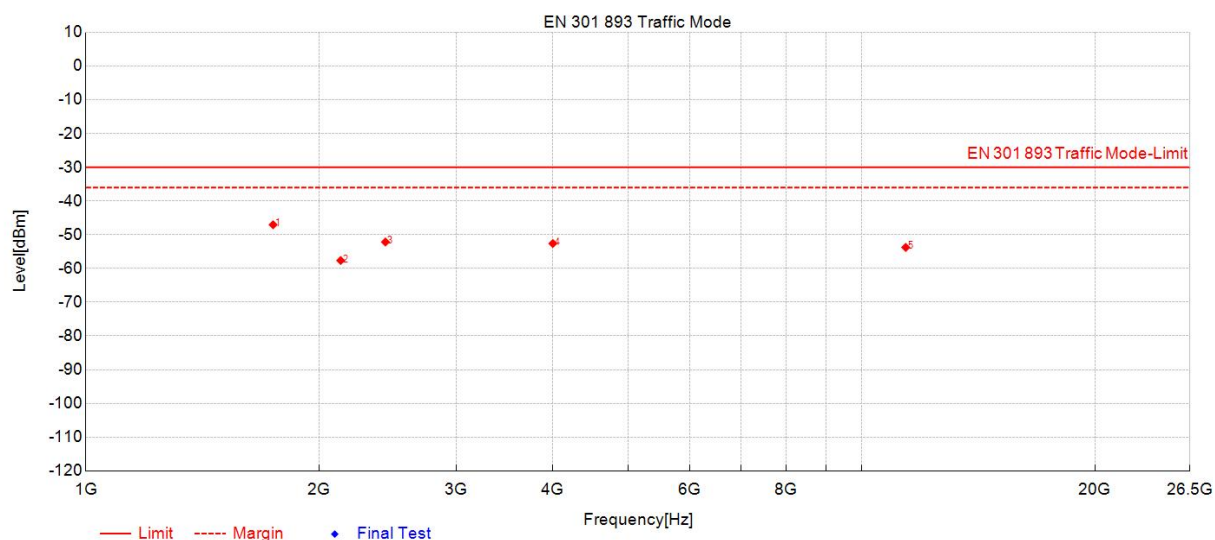
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1759	-57.80	-50.87	6.93	-30.00	20.87	Horizon	RMS	PASS
2	2131.5	-69.92	-57.65	12.27	-30.00	27.65	Horizon	RMS	PASS
3	3800	-67.31	-49.73	17.58	-30.00	19.73	Horizon	RMS	PASS
4	4000	-70.39	-51.88	18.51	-30.00	21.88	Horizon	RMS	PASS
5	11400.725	-58.32	-39.38	18.94	-30.00	9.38	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11N40MIMO_5190	Polarization	Horizontal
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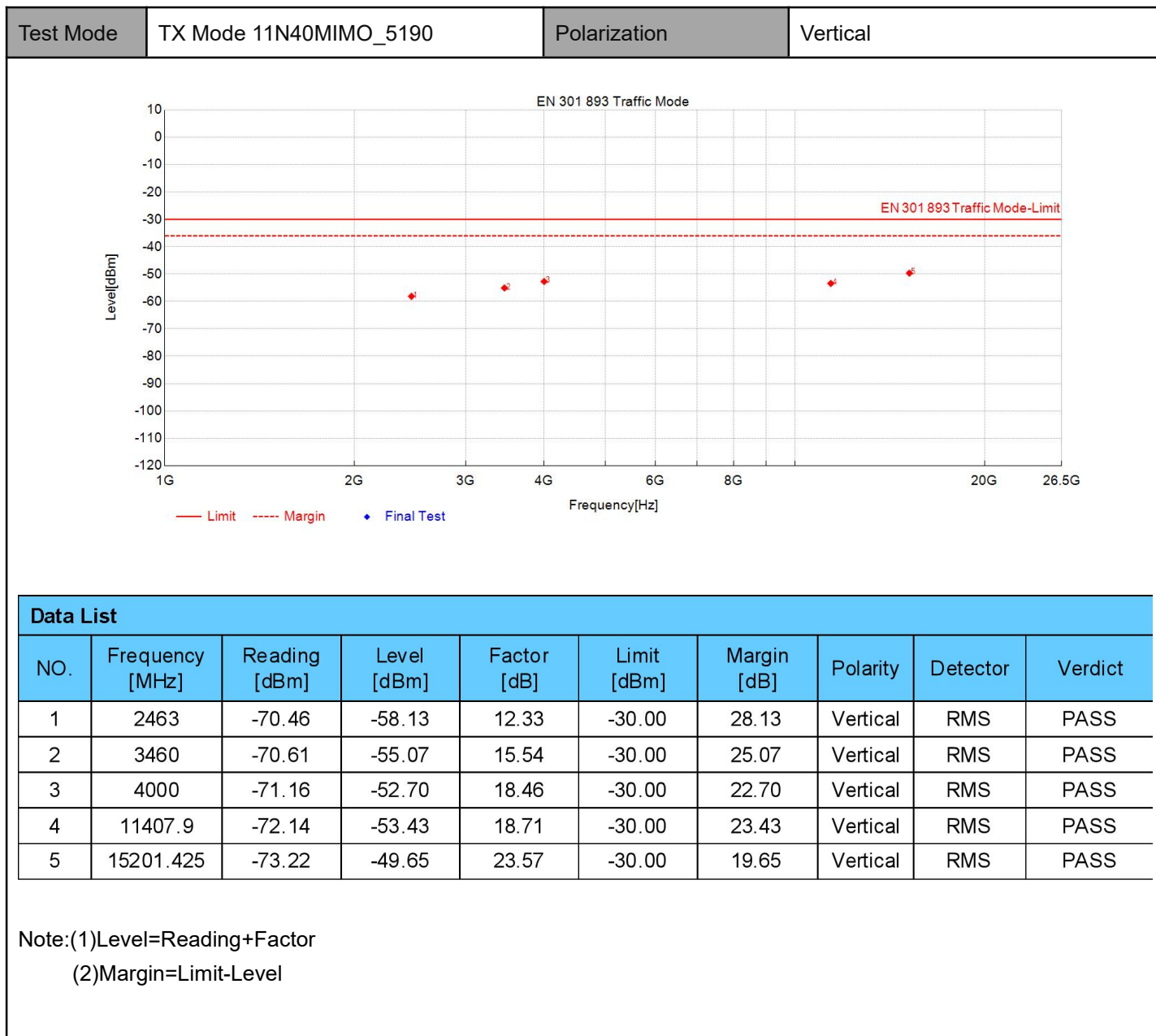


Data List

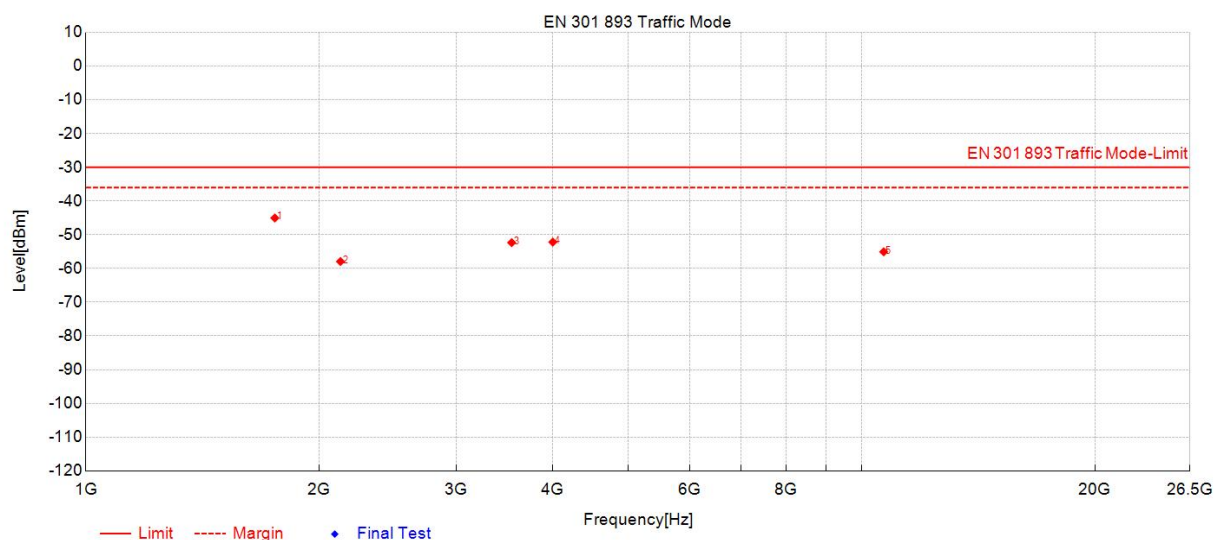
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1743	-53.92	-47.03	6.89	-30.00	17.03	Horizon	RMS	PASS
2	2130.5	-69.91	-57.62	12.29	-30.00	27.62	Horizon	RMS	PASS
3	2433	-64.59	-52.14	12.45	-30.00	22.14	Horizon	RMS	PASS
4	4000	-71.12	-52.59	18.53	-30.00	22.59	Horizon	RMS	PASS
5	11406.875	-72.59	-53.74	18.85	-30.00	23.74	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11N40MIMO_5310	Polarization	Horizontal
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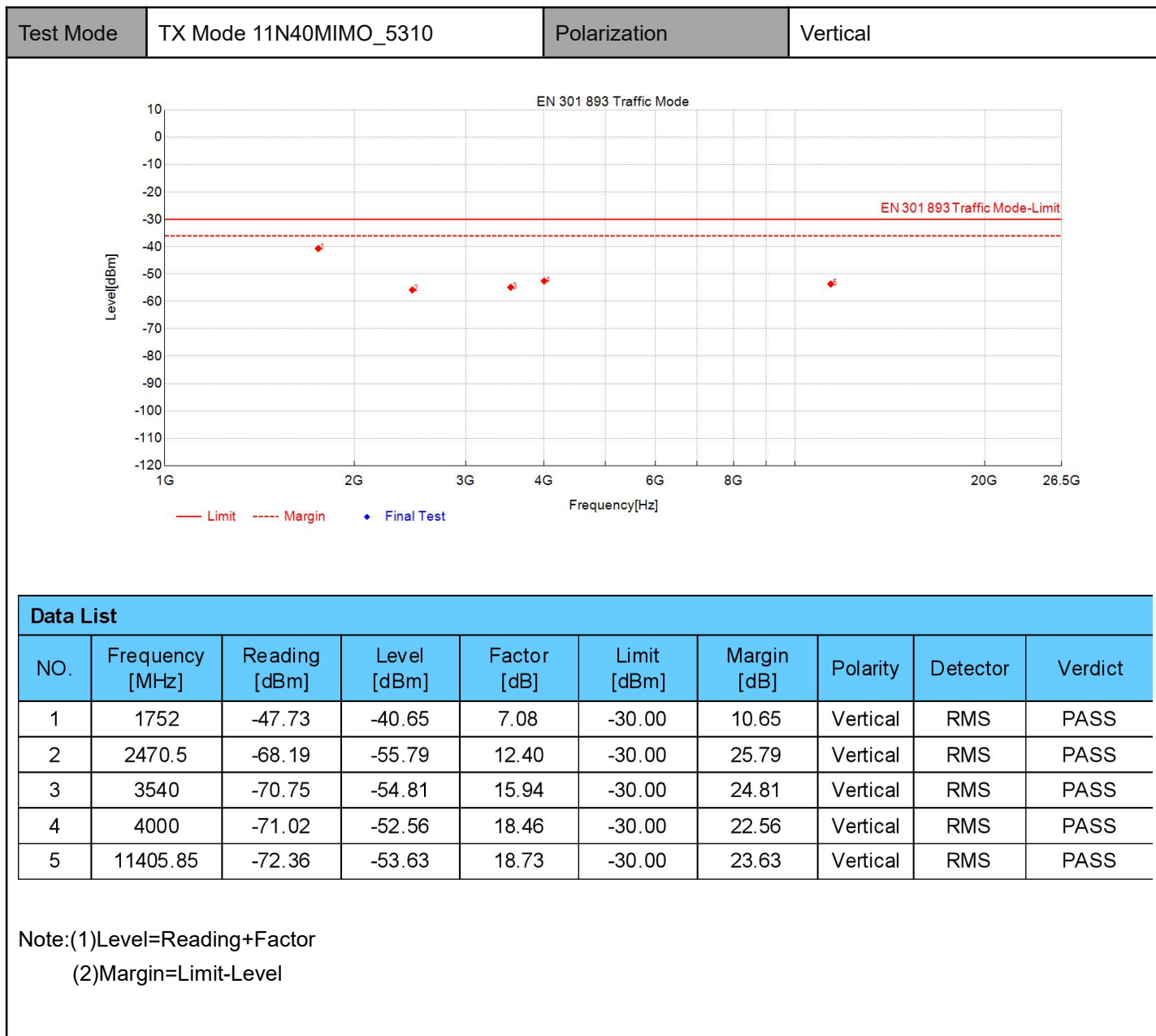


Data List

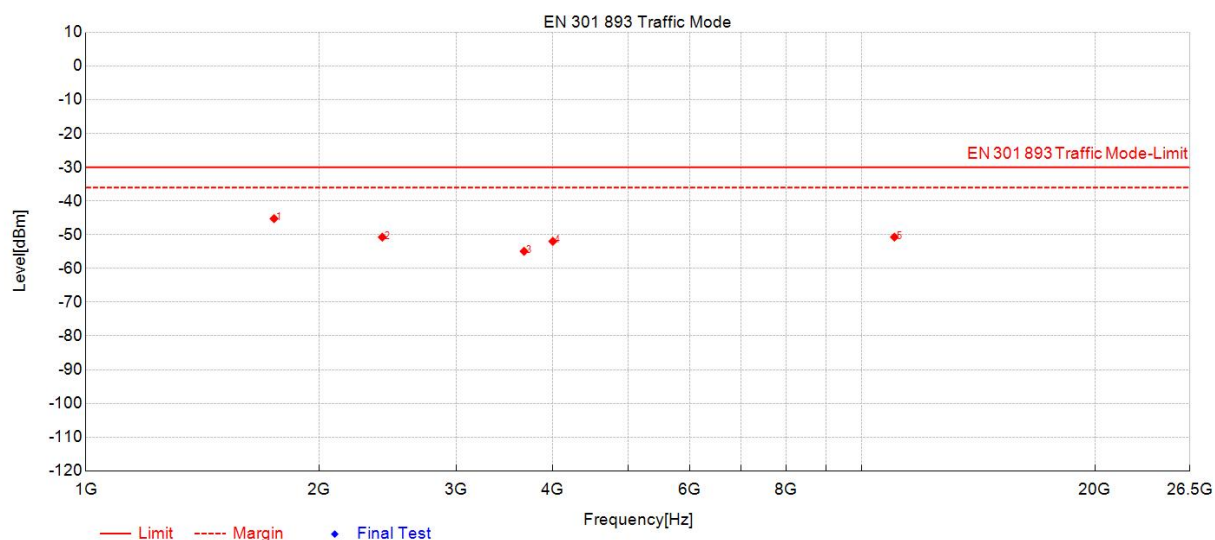
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1752	-51.94	-45.03	6.91	-30.00	15.03	Horizon	RMS	PASS
2	2129	-70.23	-57.93	12.30	-30.00	27.93	Horizon	RMS	PASS
3	3540	-68.10	-52.33	15.77	-30.00	22.33	Horizon	RMS	PASS
4	4000	-70.70	-52.17	18.53	-30.00	22.17	Horizon	RMS	PASS
5	10685.275	-72.59	-55.06	17.53	-30.00	25.06	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11N40MIMO_5510	Polarization	Horizontal
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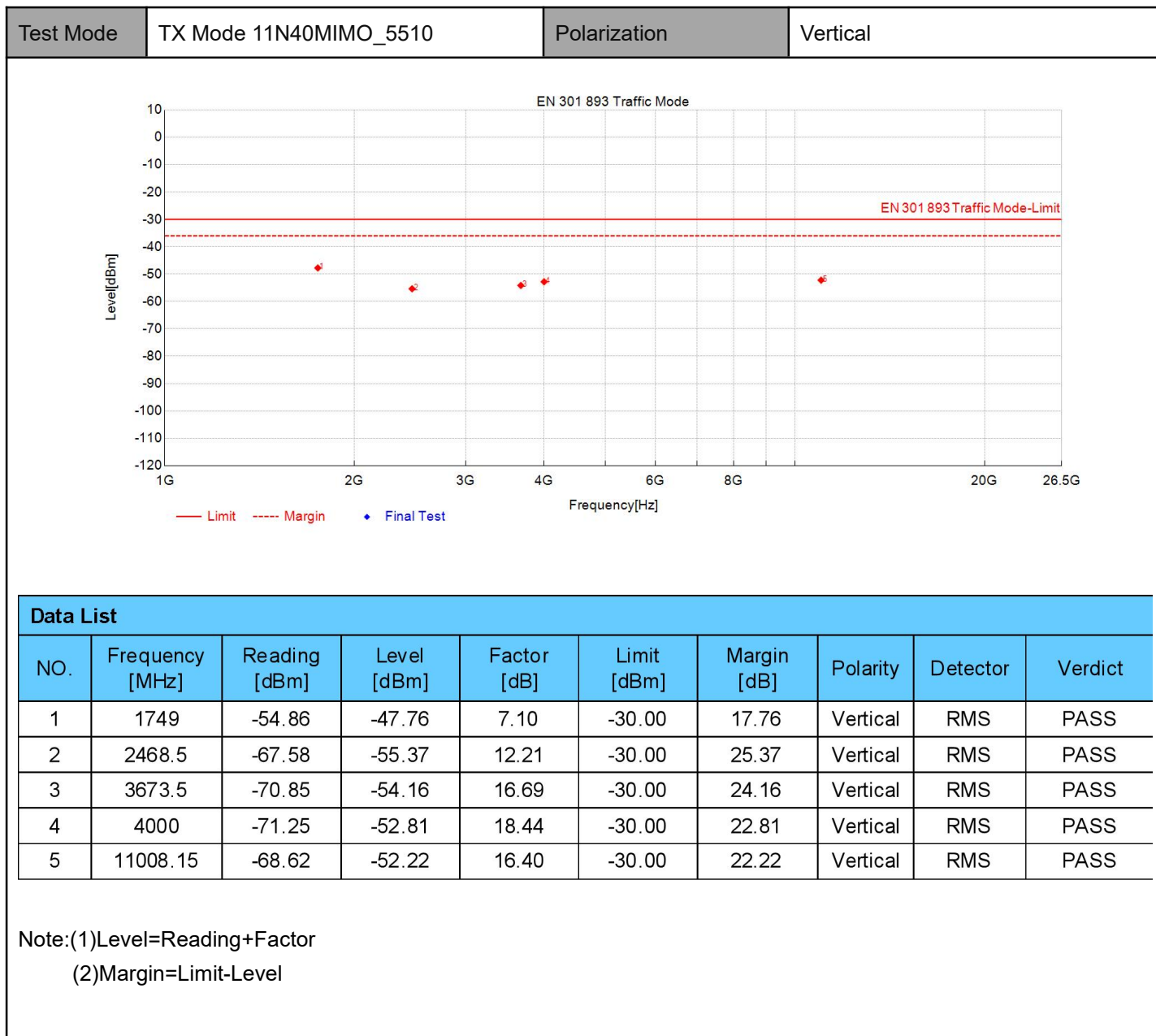


Data List

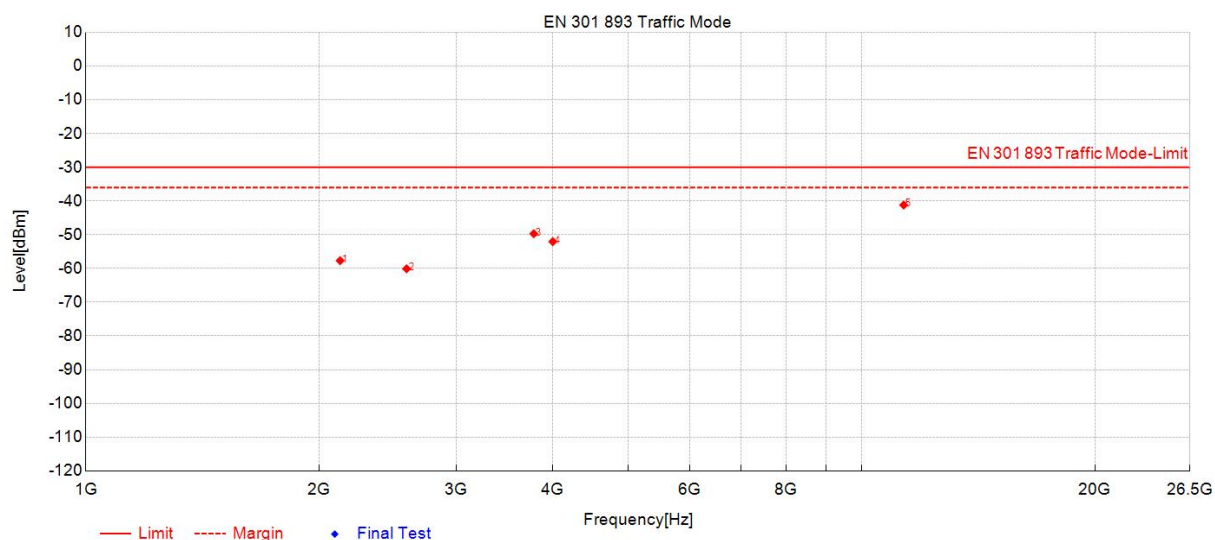
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1748	-52.16	-45.23	6.93	-30.00	15.23	Horizon	RMS	PASS
2	2410.5	-62.99	-50.72	12.27	-30.00	20.72	Horizon	RMS	PASS
3	3673	-71.39	-54.90	16.49	-30.00	24.90	Horizon	RMS	PASS
4	4000	-70.47	-51.96	18.51	-30.00	21.96	Horizon	RMS	PASS
5	11030.7	-67.84	-50.69	17.15	-30.00	20.69	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11N40MIMO_5670	Polarization	Horizontal
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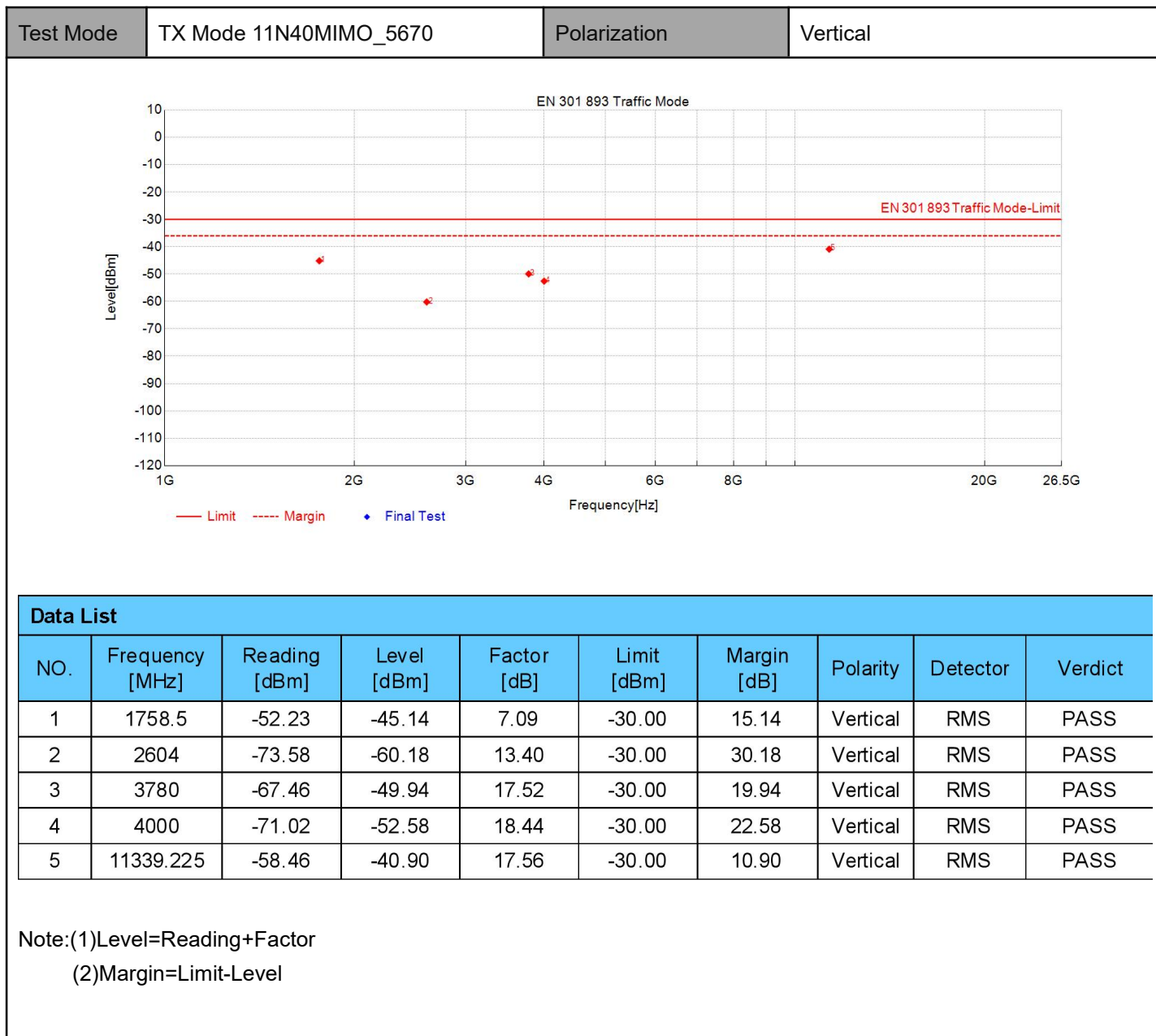


Data List

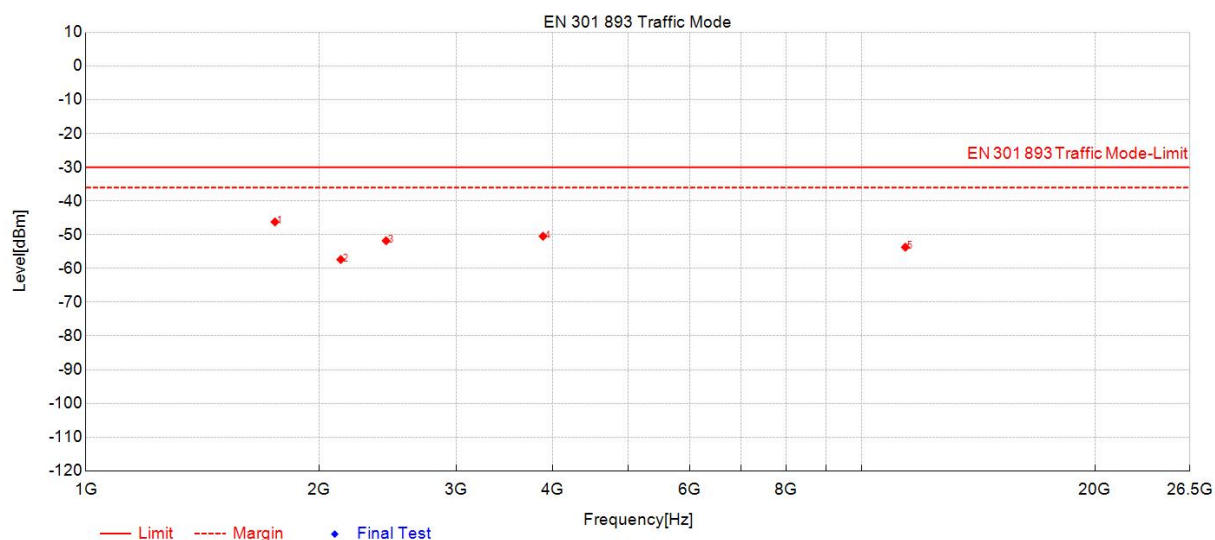
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2127	-69.94	-57.67	12.27	-30.00	27.67	Horizon	RMS	PASS
2	2591	-73.50	-60.09	13.41	-30.00	30.09	Horizon	RMS	PASS
3	3780	-67.09	-49.69	17.40	-30.00	19.69	Horizon	RMS	PASS
4	4000	-70.55	-52.04	18.51	-30.00	22.04	Horizon	RMS	PASS
5	11338.2	-58.98	-41.20	17.78	-30.00	11.20	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AC20MIMO_5180	Polarization	Horizontal
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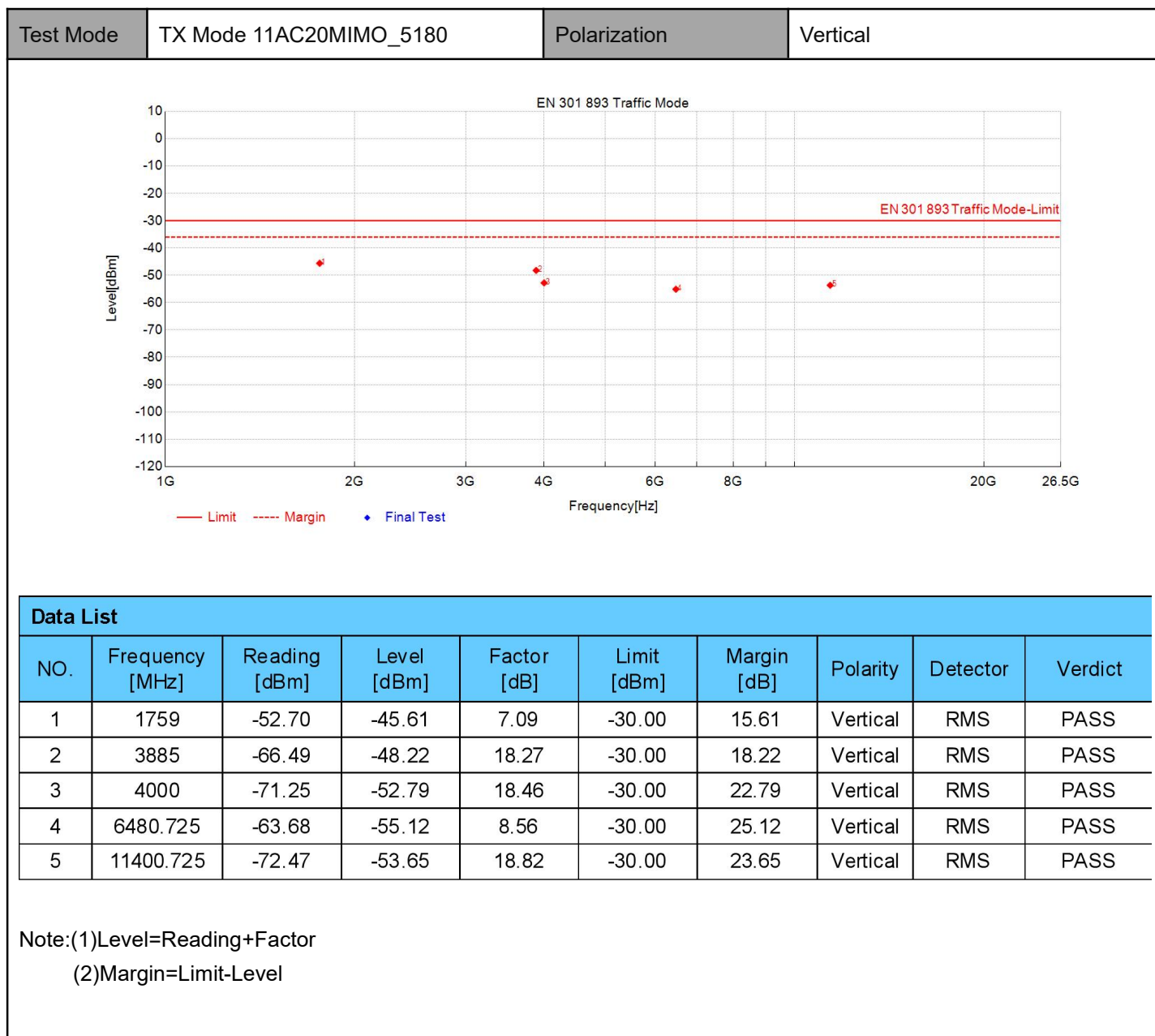


Data List

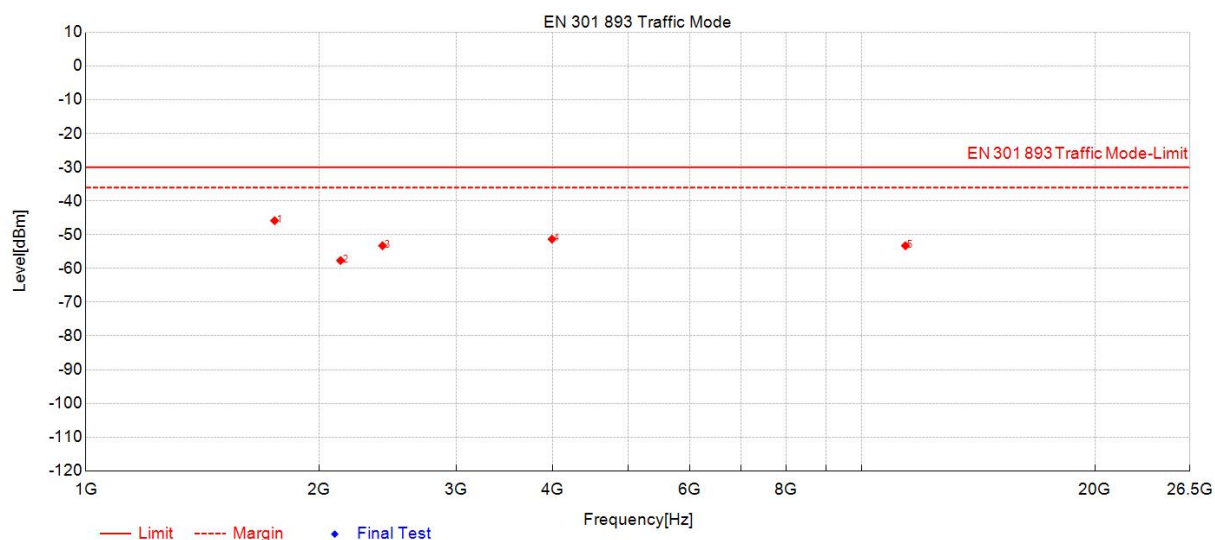
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1753	-53.11	-46.20	6.91	-30.00	16.20	Horizon	RMS	PASS
2	2131	-69.63	-57.34	12.29	-30.00	27.34	Horizon	RMS	PASS
3	2438	-64.24	-51.78	12.46	-30.00	21.78	Horizon	RMS	PASS
4	3885	-68.87	-50.44	18.43	-30.00	20.44	Horizon	RMS	PASS
5	11396.625	-72.56	-53.69	18.87	-30.00	23.69	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AC20MIMO_5320	Polarization	Horizontal
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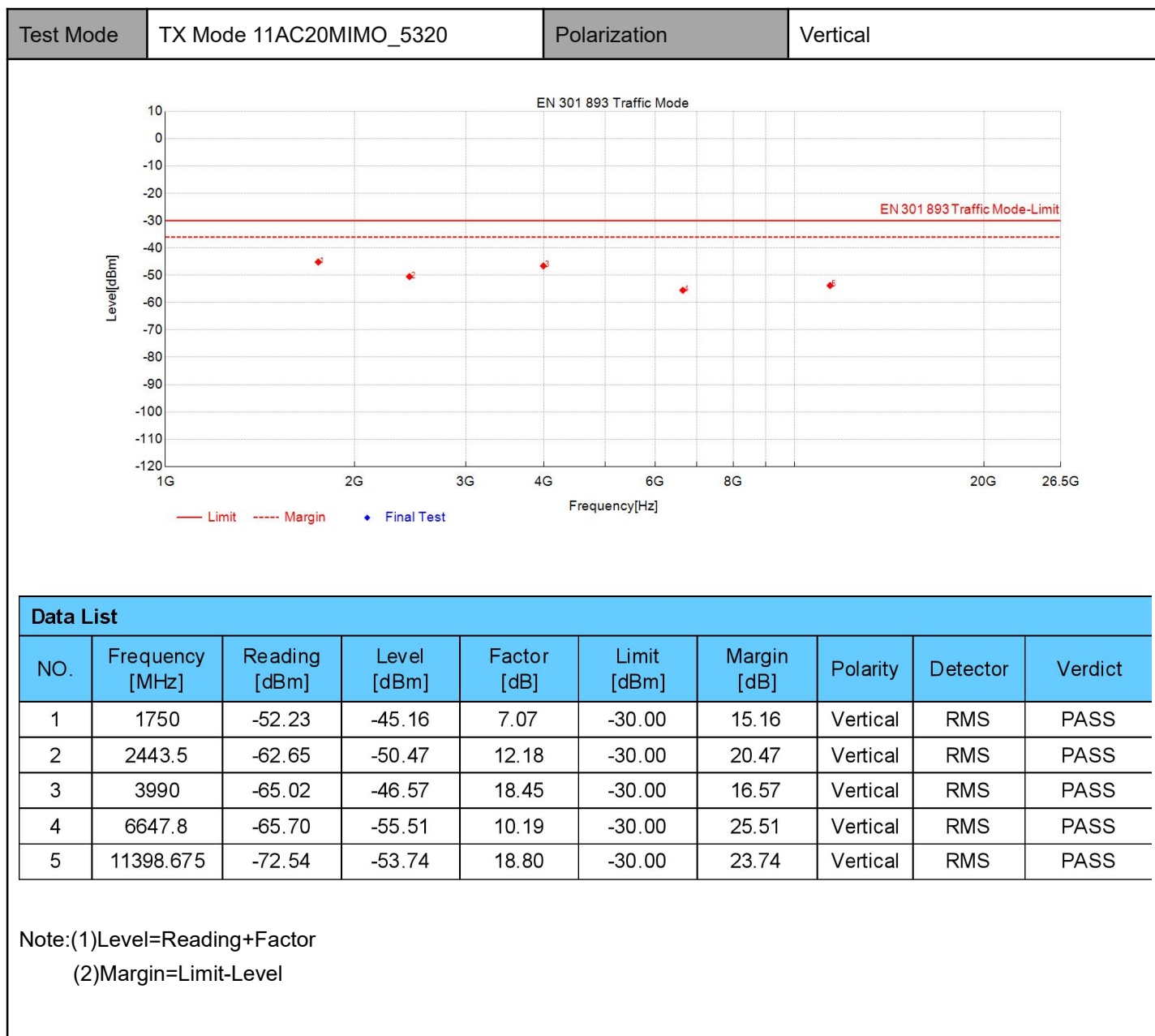


Data List

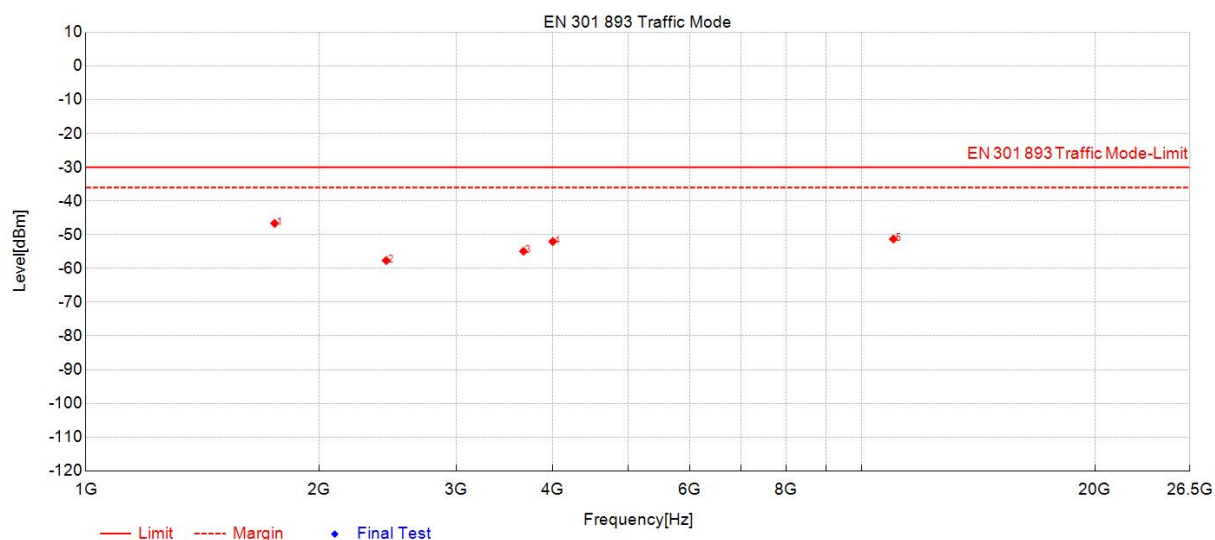
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1751	-52.73	-45.82	6.91	-30.00	15.82	Horizon	RMS	PASS
2	2129.5	-69.92	-57.63	12.29	-30.00	27.63	Horizon	RMS	PASS
3	2412.5	-65.65	-53.25	12.40	-30.00	23.25	Horizon	RMS	PASS
4	3990	-69.84	-51.31	18.53	-30.00	21.31	Horizon	RMS	PASS
5	11396.625	-72.14	-53.27	18.87	-30.00	23.27	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AC20MIMO_5500	Polarization	Horizontal
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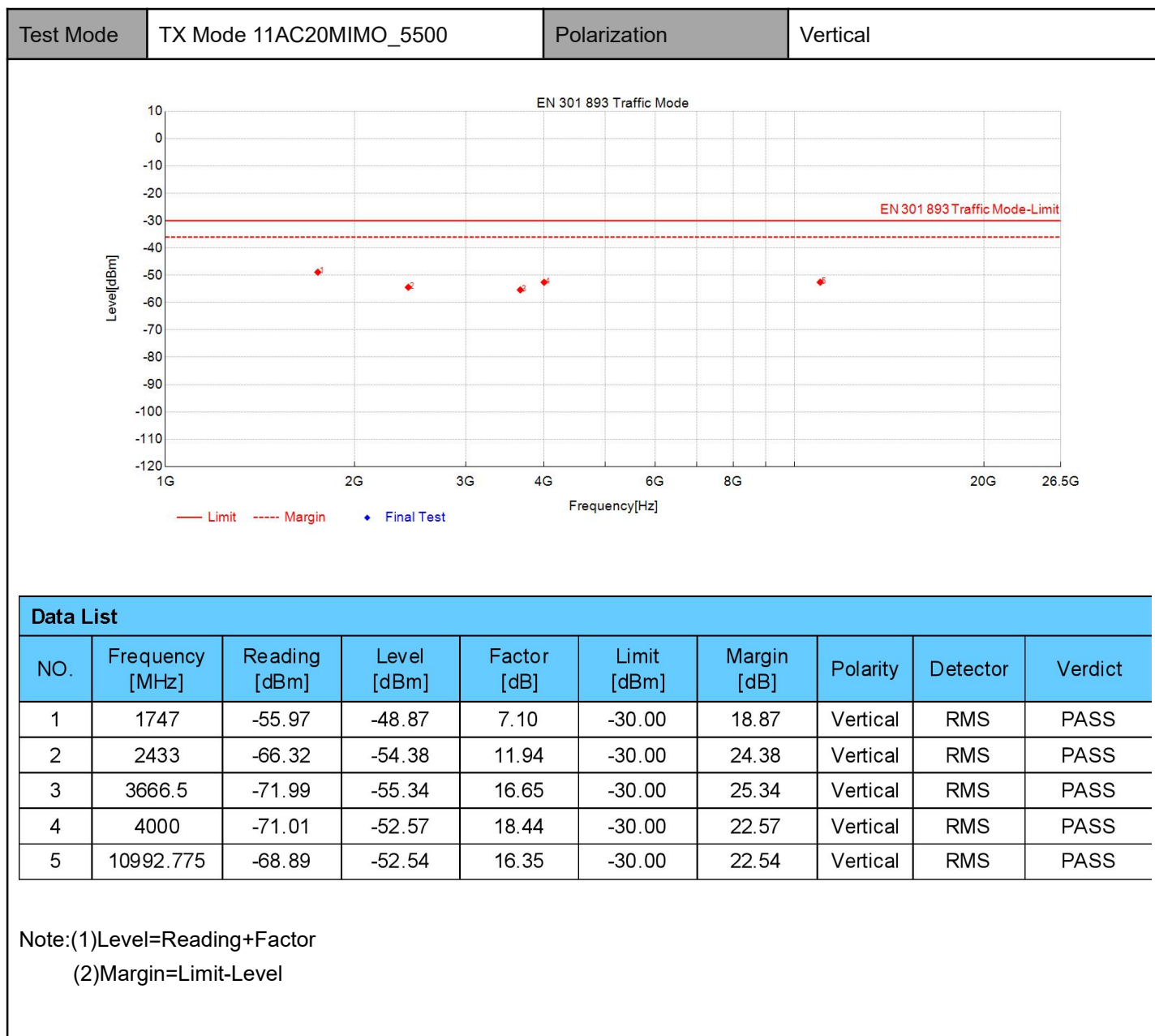


Data List

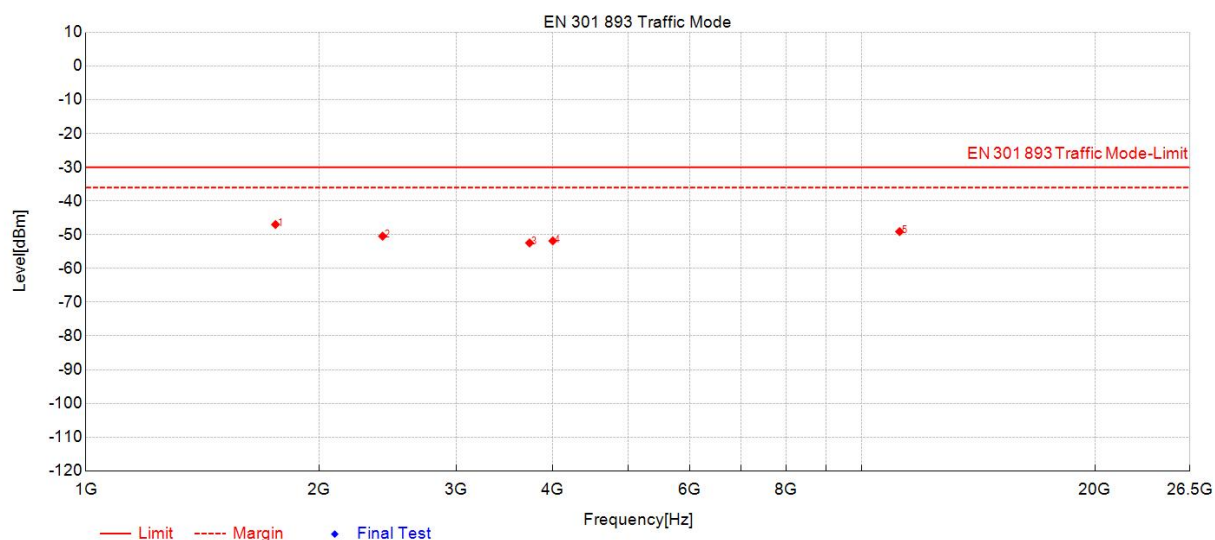
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1751	-53.55	-46.63	6.92	-30.00	16.63	Horizon	RMS	PASS
2	2439	-69.96	-57.65	12.31	-30.00	27.65	Horizon	RMS	PASS
3	3666.5	-71.35	-54.91	16.44	-30.00	24.91	Horizon	RMS	PASS
4	4000	-70.53	-52.02	18.51	-30.00	22.02	Horizon	RMS	PASS
5	10997.9	-68.47	-51.25	17.22	-30.00	21.25	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AC20MIMO_5700	Polarization	Horizontal
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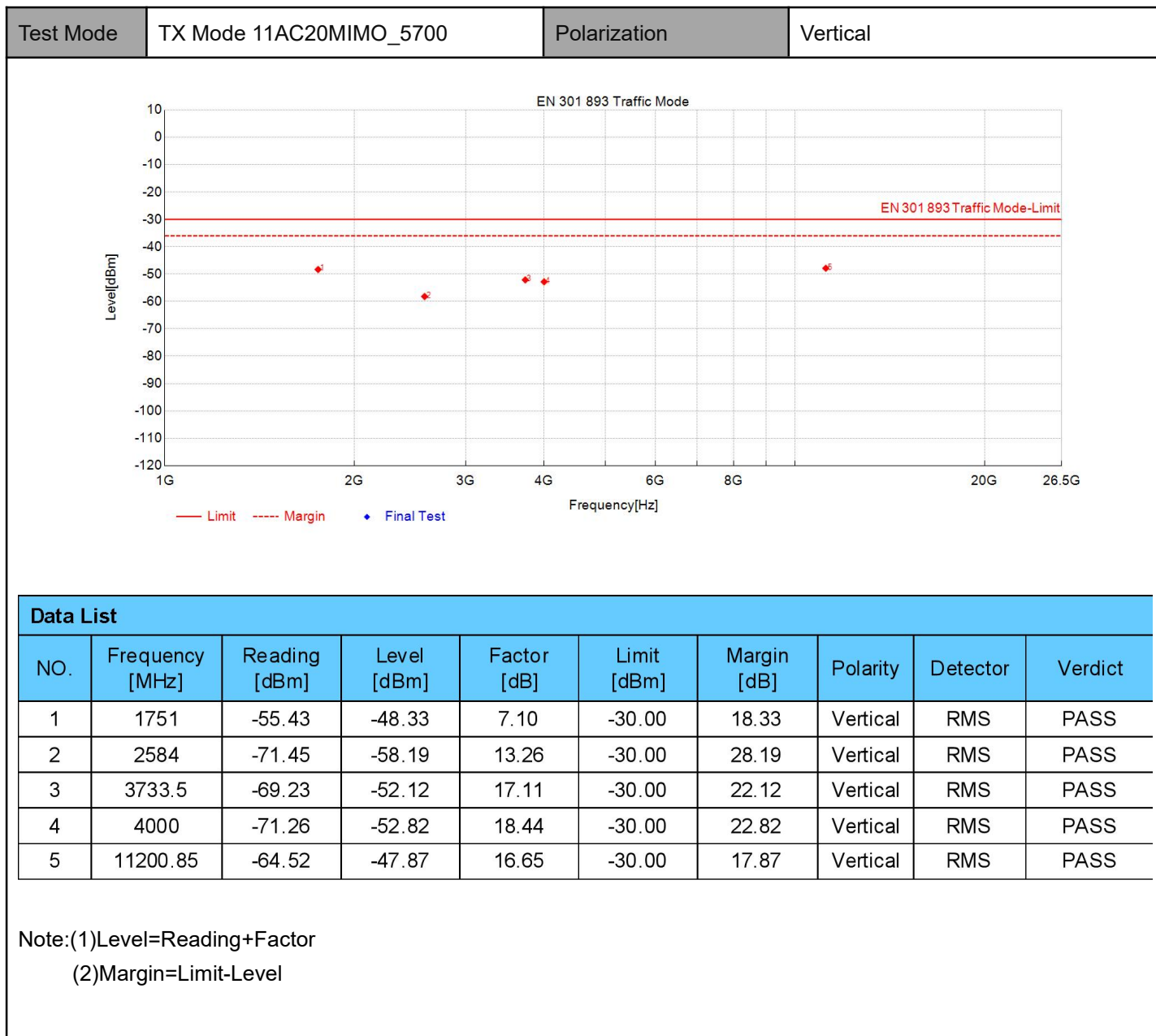


Data List

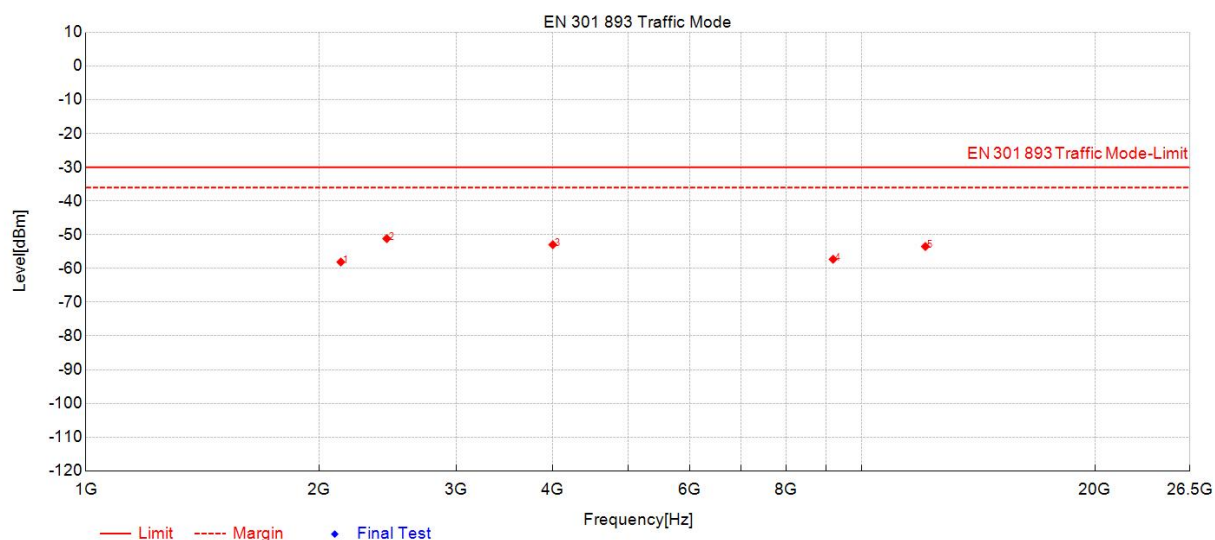
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1755.5	-53.88	-46.96	6.92	-30.00	16.96	Horizon	RMS	PASS
2	2413	-62.69	-50.42	12.27	-30.00	20.42	Horizon	RMS	PASS
3	3733	-69.40	-52.42	16.98	-30.00	22.42	Horizon	RMS	PASS
4	4000	-70.33	-51.82	18.51	-30.00	21.82	Horizon	RMS	PASS
5	11200.85	-66.05	-49.06	16.99	-30.00	19.06	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AC40MIMO_5190	Polarization	Horizontal
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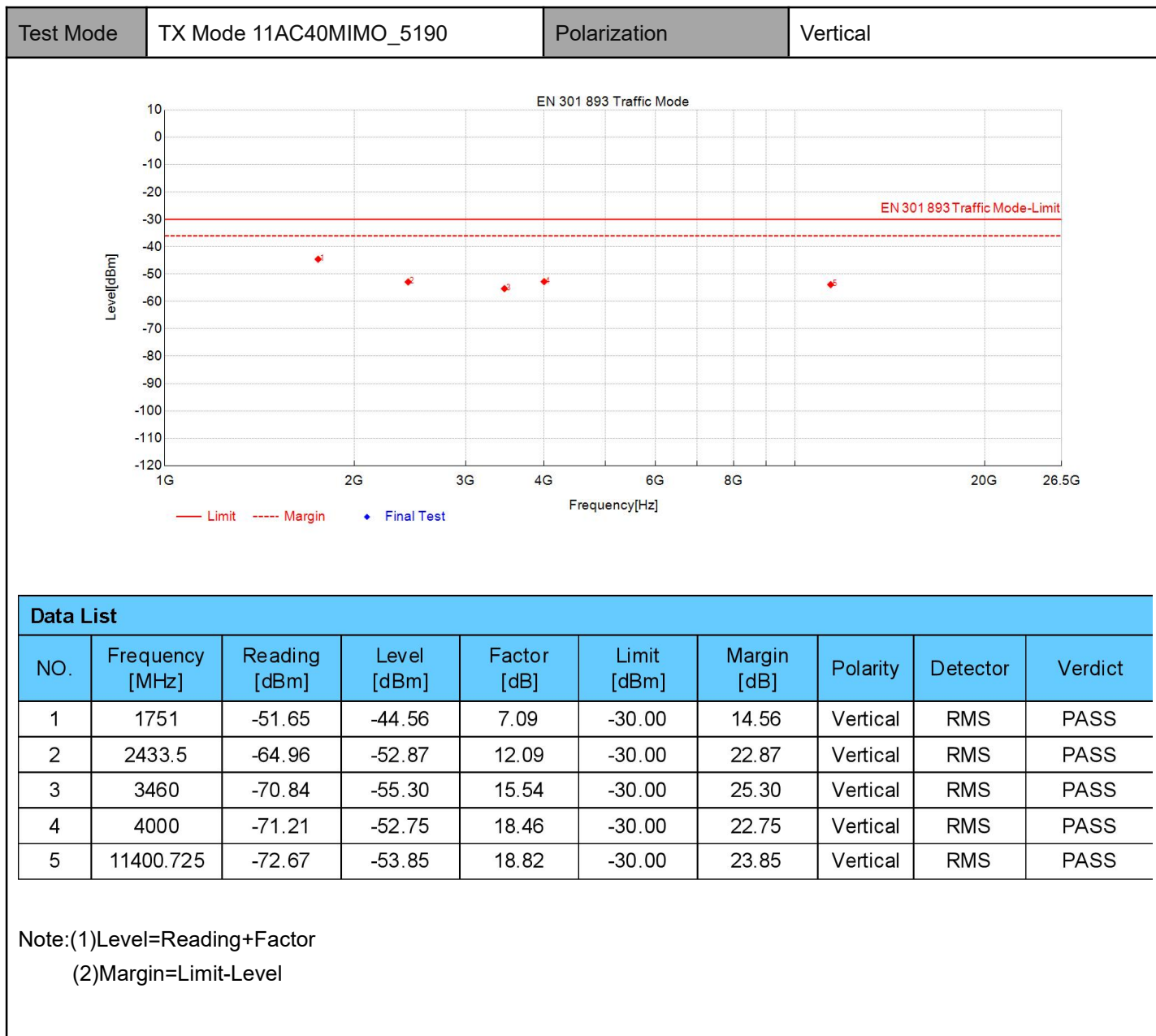


Data List

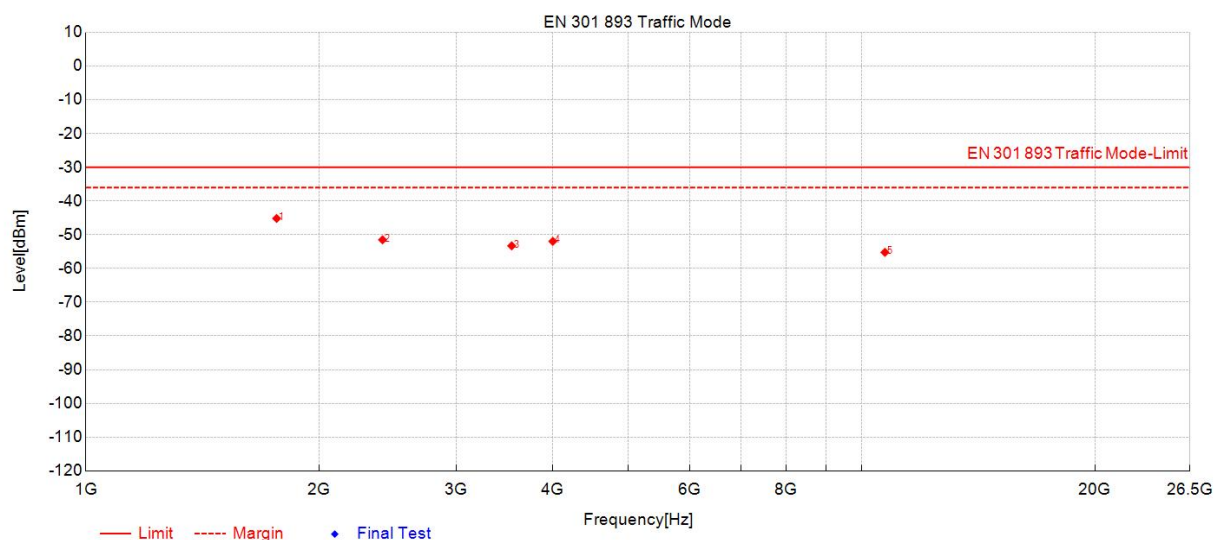
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2131.5	-70.38	-58.09	12.29	-30.00	28.09	Horizon	RMS	PASS
2	2443	-63.60	-51.14	12.46	-30.00	21.14	Horizon	RMS	PASS
3	4000	-71.48	-52.95	18.53	-30.00	22.95	Horizon	RMS	PASS
4	9193.9	-71.59	-57.26	14.33	-30.00	27.26	Horizon	RMS	PASS
5	12093.625	-72.84	-53.48	19.36	-30.00	23.48	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AC40MIMO_5310	Polarization	Horizontal
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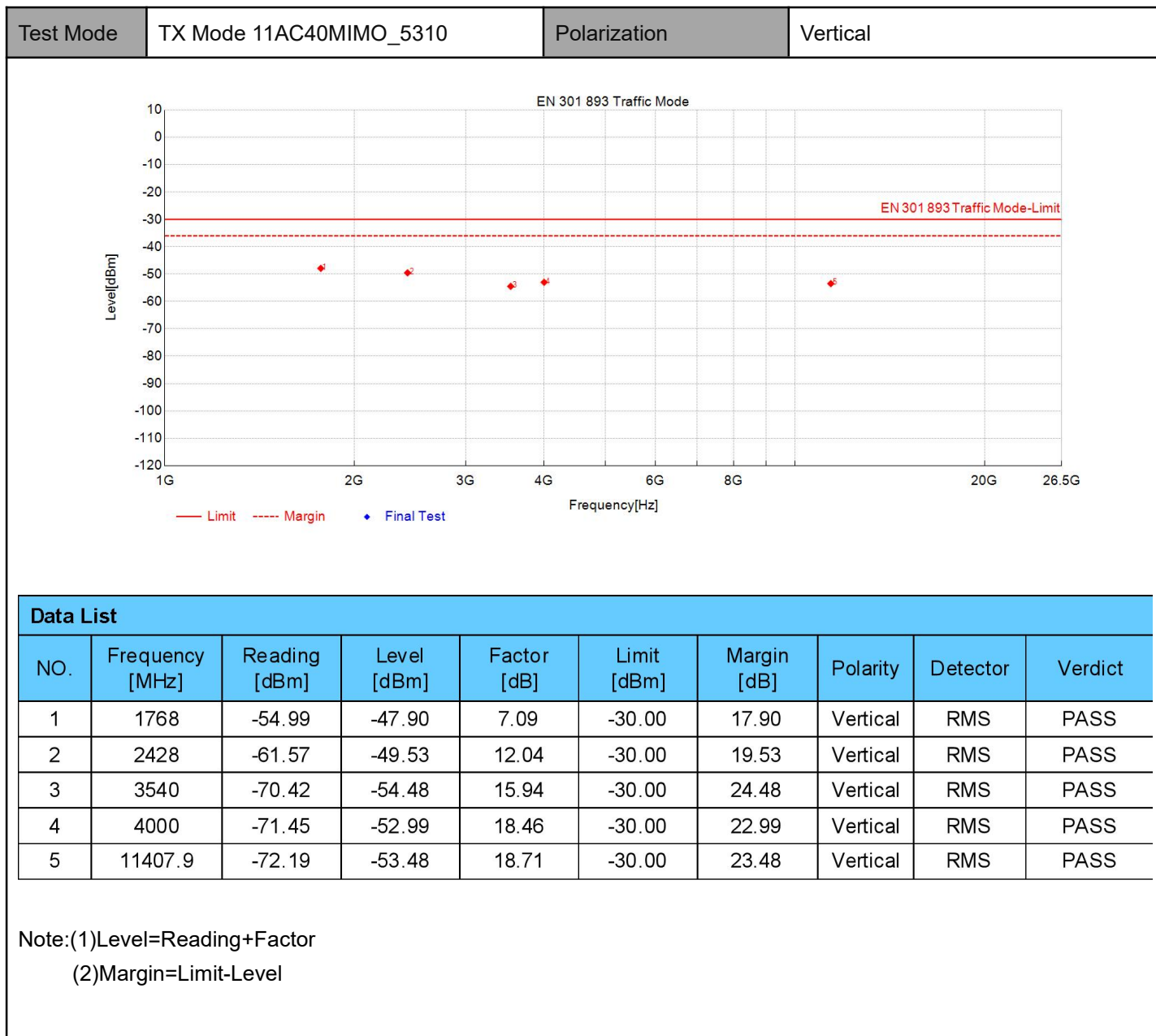


Data List

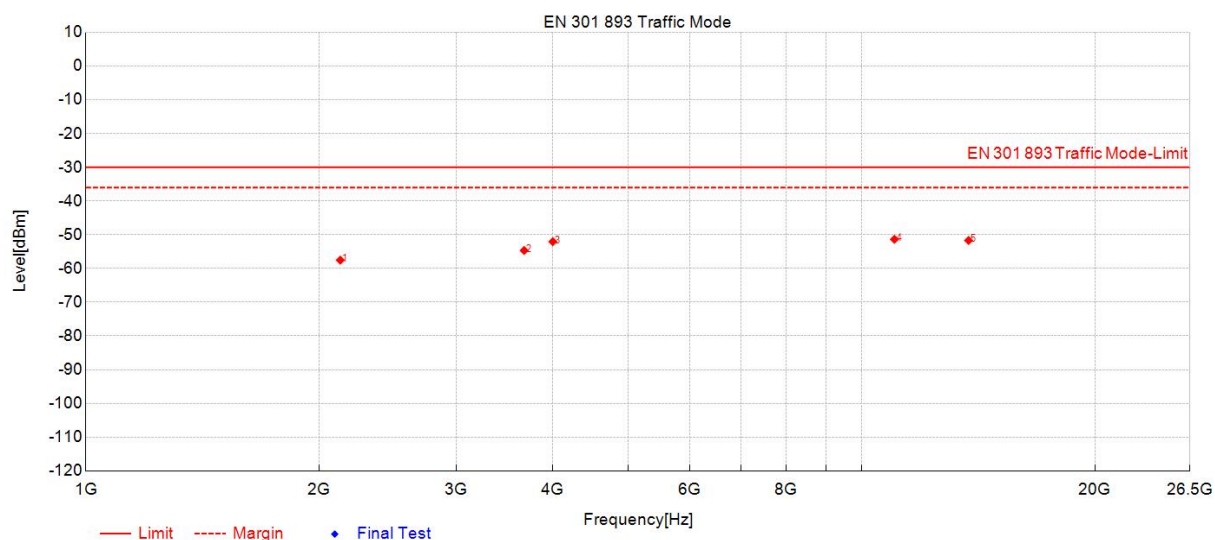
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1761.5	-52.09	-45.17	6.92	-30.00	15.17	Horizon	RMS	PASS
2	2412.5	-63.90	-51.50	12.40	-30.00	21.50	Horizon	RMS	PASS
3	3540	-69.06	-53.29	15.77	-30.00	23.29	Horizon	RMS	PASS
4	4000	-70.48	-51.95	18.53	-30.00	21.95	Horizon	RMS	PASS
5	10724.225	-72.81	-55.21	17.60	-30.00	25.21	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AC40MIMO_5510	Polarization	Horizontal
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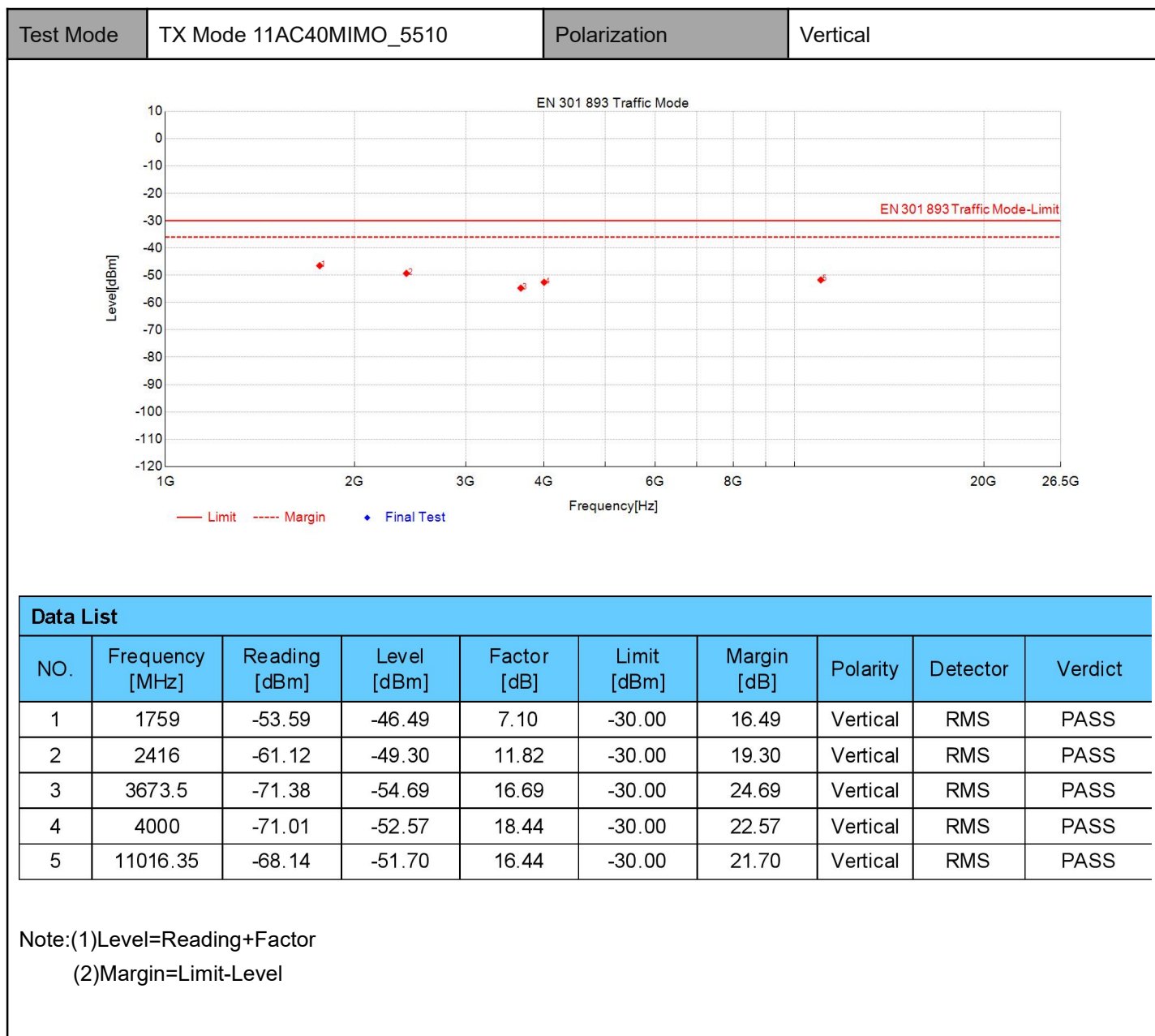


Data List

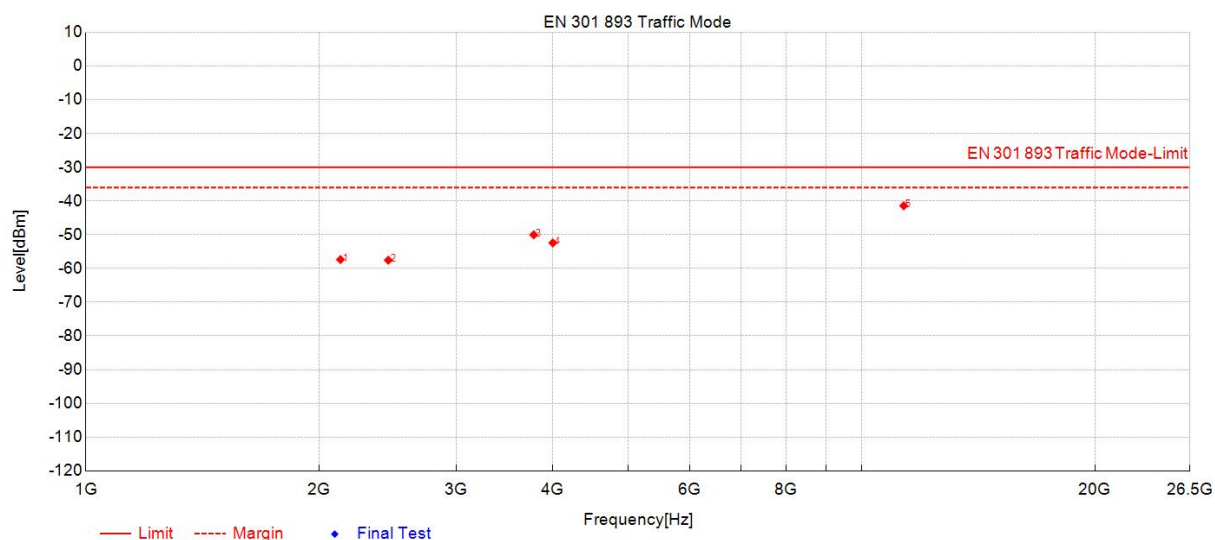
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2128	-69.80	-57.53	12.27	-30.00	27.53	Horizon	RMS	PASS
2	3673.5	-71.15	-54.66	16.49	-30.00	24.66	Horizon	RMS	PASS
3	4000	-70.56	-52.05	18.51	-30.00	22.05	Horizon	RMS	PASS
4	11030.7	-68.50	-51.35	17.15	-30.00	21.35	Horizon	RMS	PASS
5	13747.975	-72.47	-51.69	20.78	-30.00	21.69	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AC40MIMO_5670	Polarization	Horizontal
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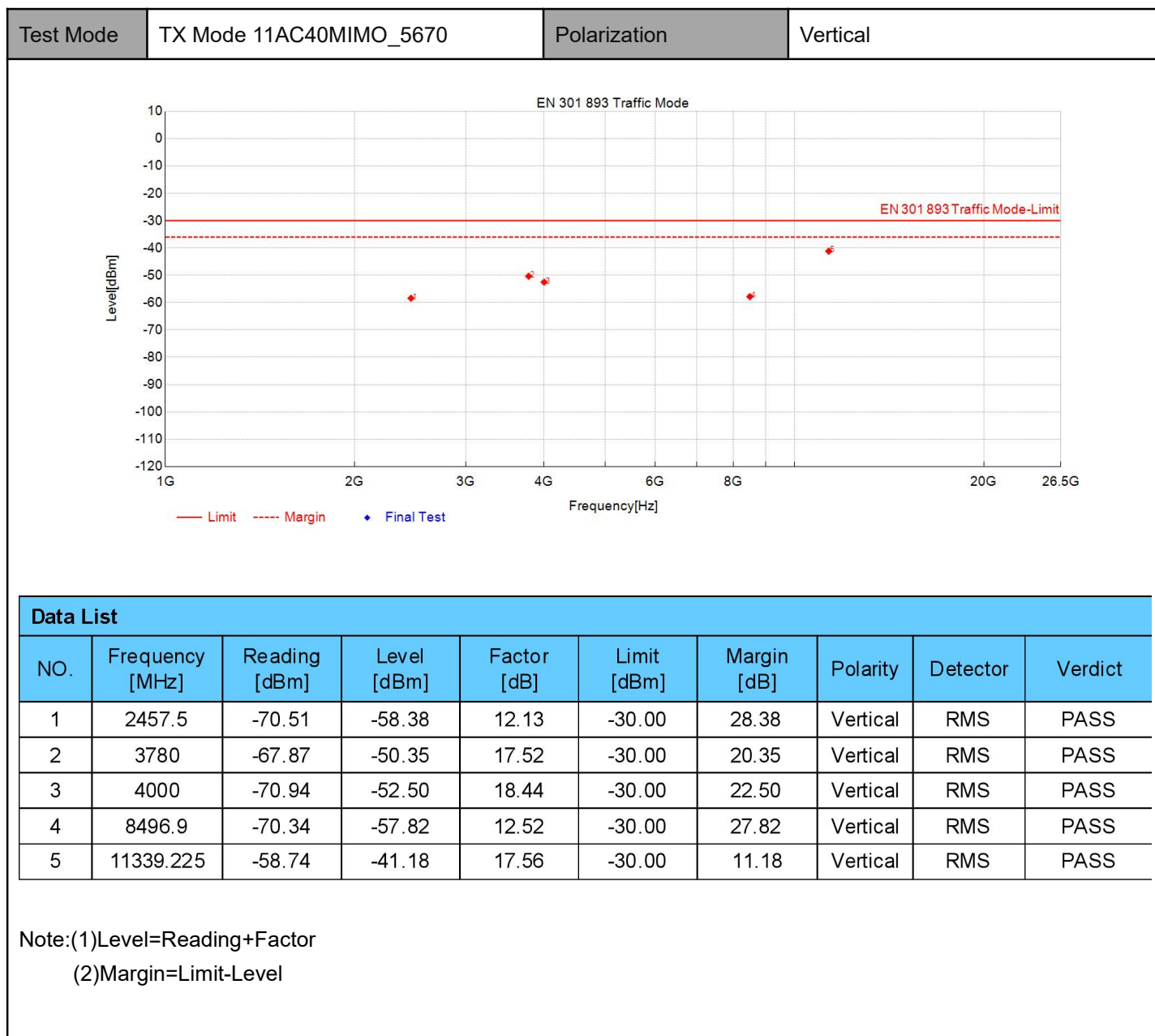


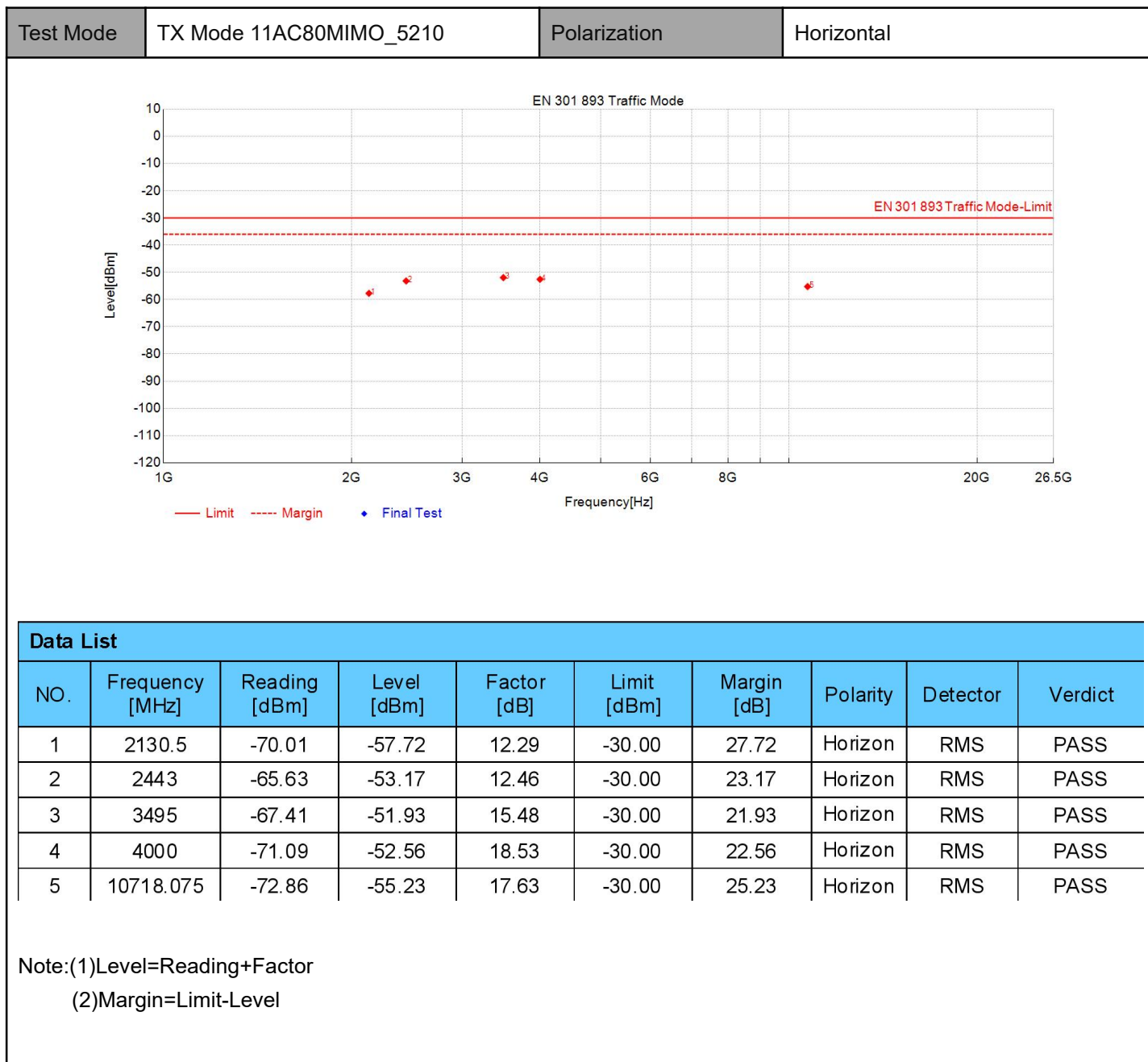
Data List

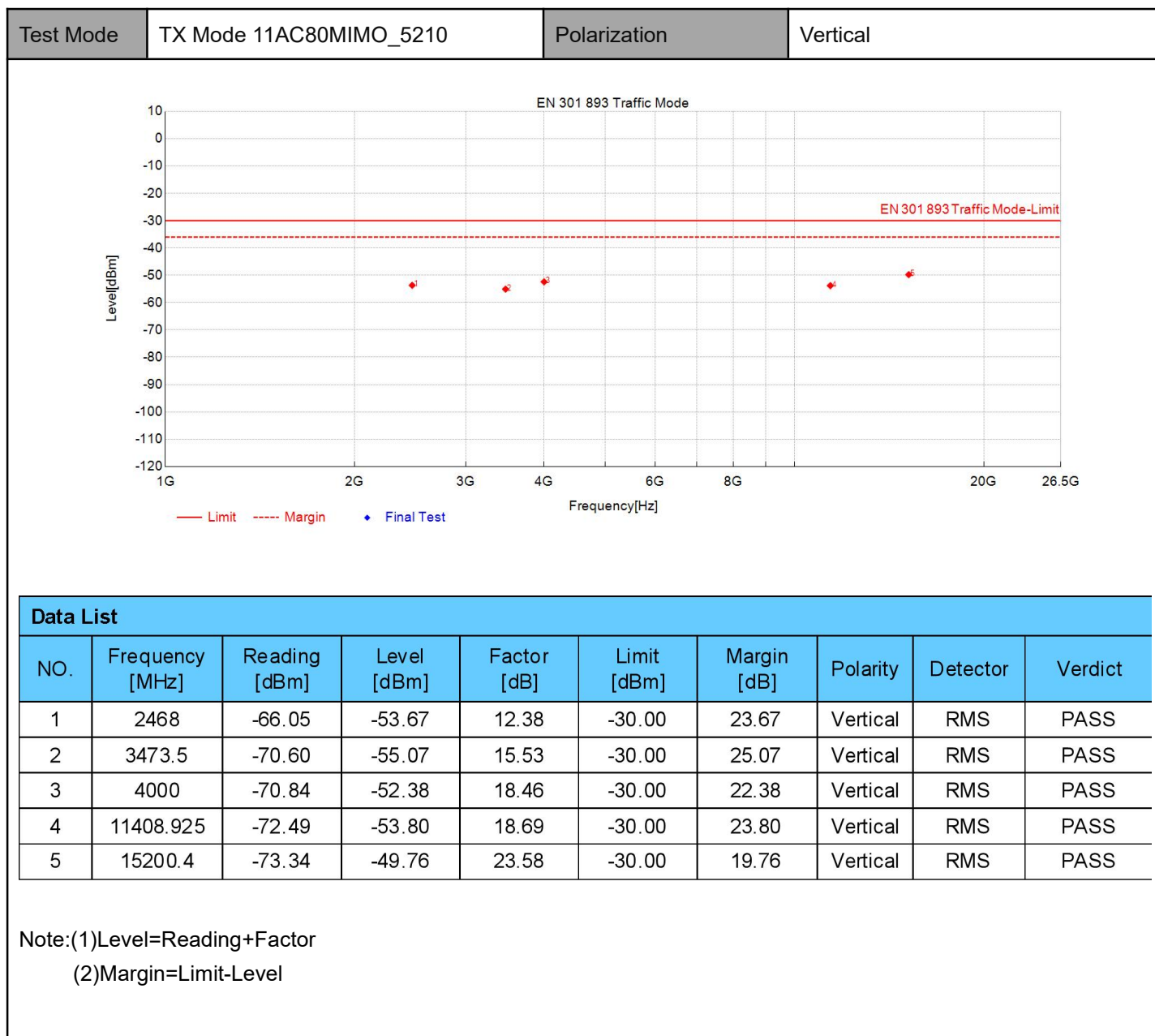
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2129	-69.63	-57.36	12.27	-30.00	27.36	Horizon	RMS	PASS
2	2454	-69.87	-57.54	12.33	-30.00	27.54	Horizon	RMS	PASS
3	3780	-67.41	-50.01	17.40	-30.00	20.01	Horizon	RMS	PASS
4	4000	-70.93	-52.42	18.51	-30.00	22.42	Horizon	RMS	PASS
5	11339.225	-59.20	-41.41	17.79	-30.00	11.41	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

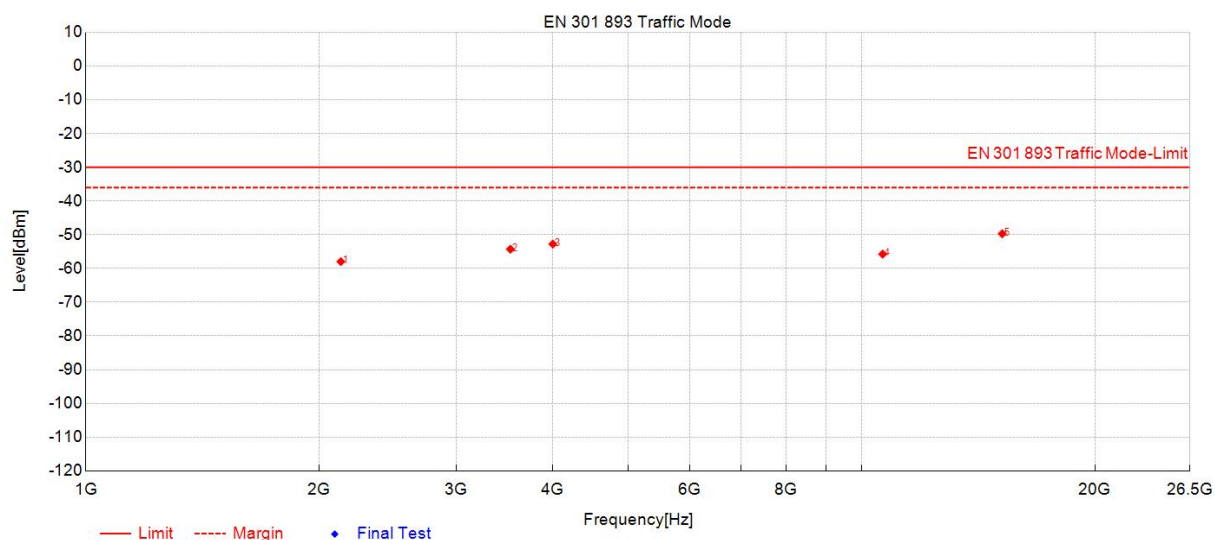
(2)Margin=Limit-Level







Test Mode	TX Mode 11AC80MIMO_5290	Polarization	Horizontal
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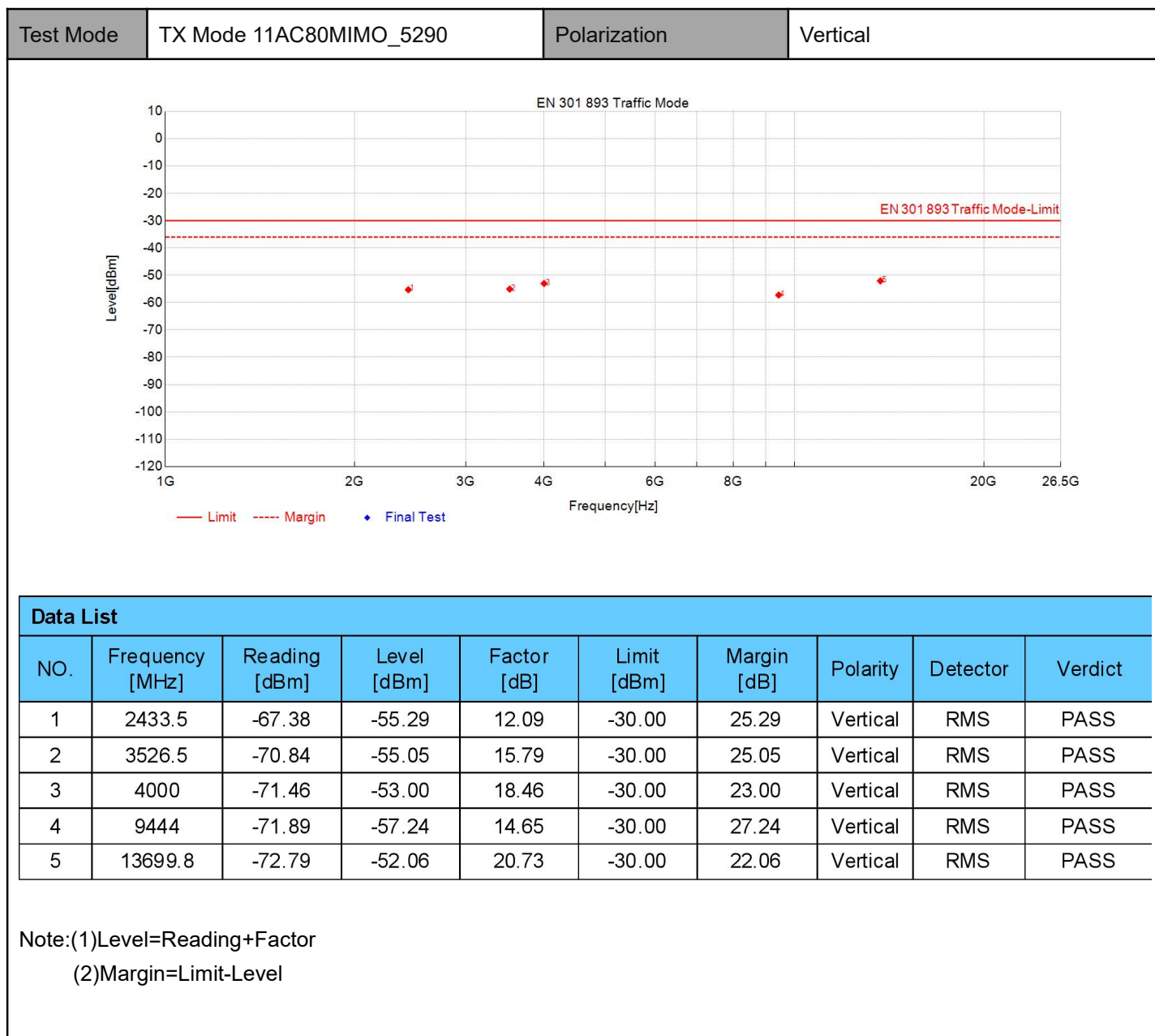


Data List

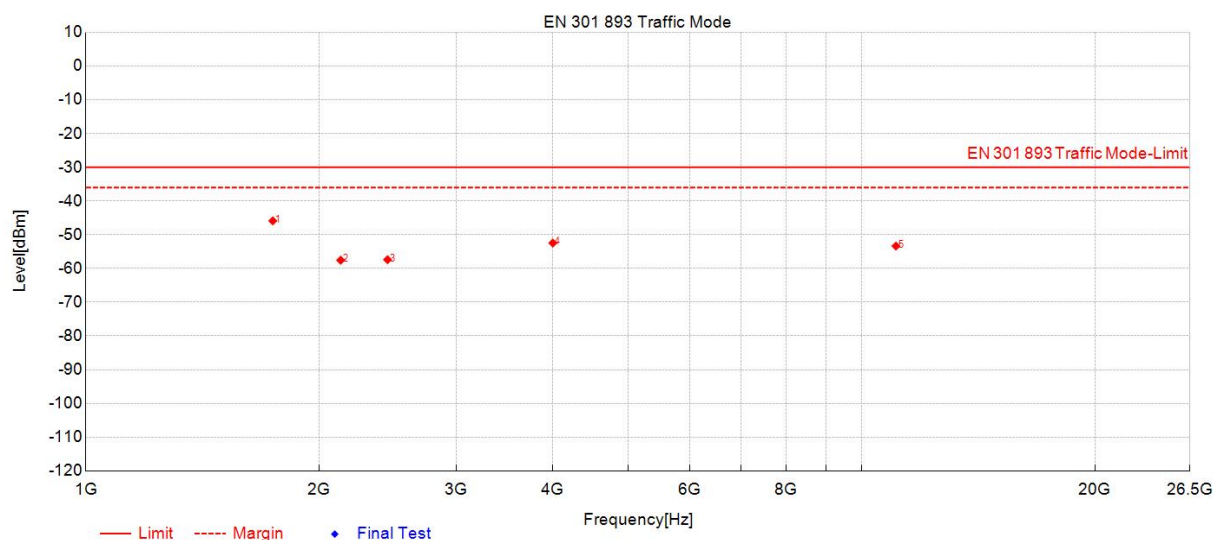
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2131.5	-70.25	-57.96	12.29	-30.00	27.96	Horizon	RMS	PASS
2	3526.5	-69.94	-54.28	15.66	-30.00	24.28	Horizon	RMS	PASS
3	4000	-71.30	-52.77	18.53	-30.00	22.77	Horizon	RMS	PASS
4	10651.45	-72.79	-55.75	17.04	-30.00	25.75	Horizon	RMS	PASS
5	15191.175	-73.11	-49.70	23.41	-30.00	19.70	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AC80MIMO_5530	Polarization	Horizontal
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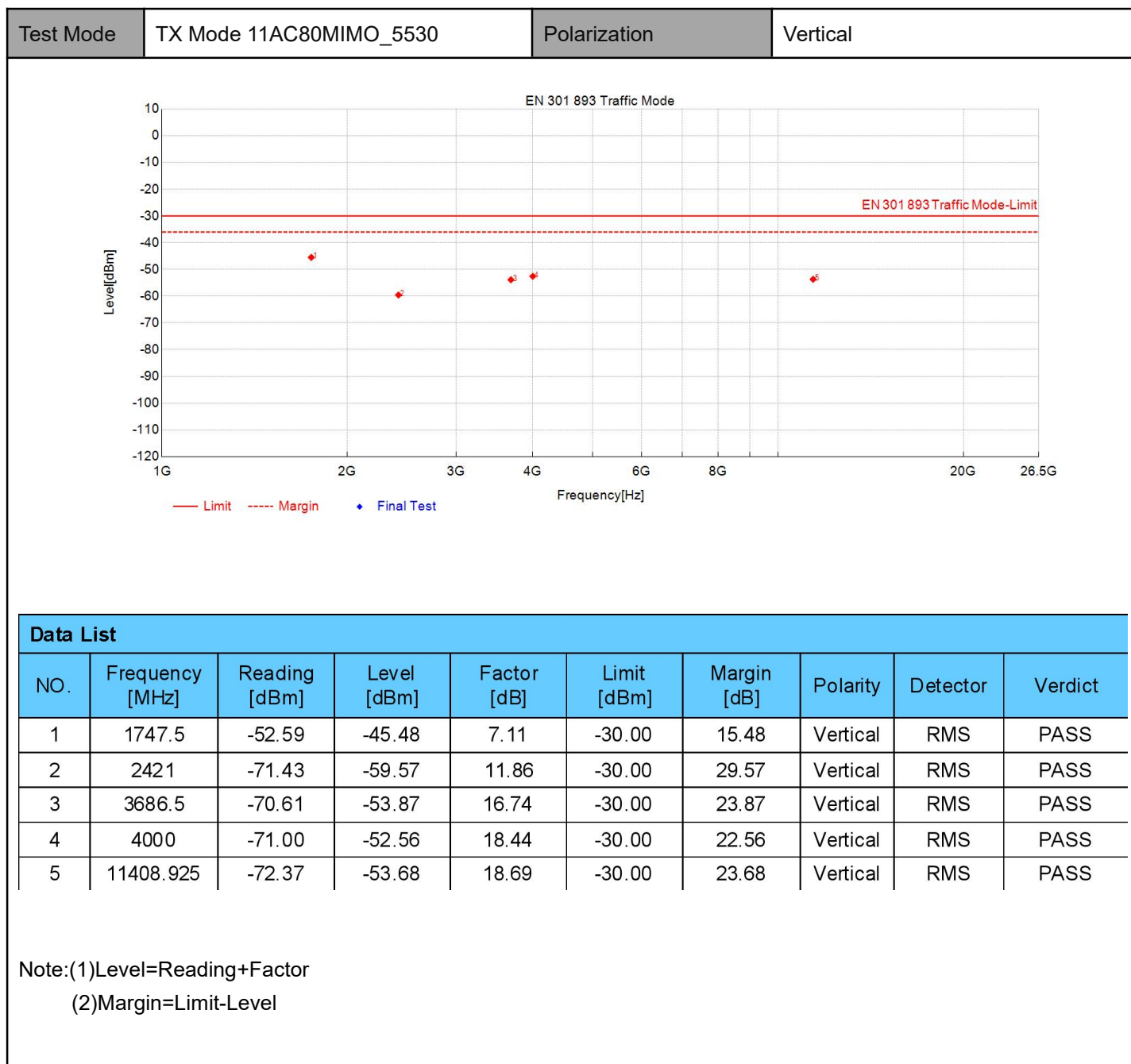


Data List

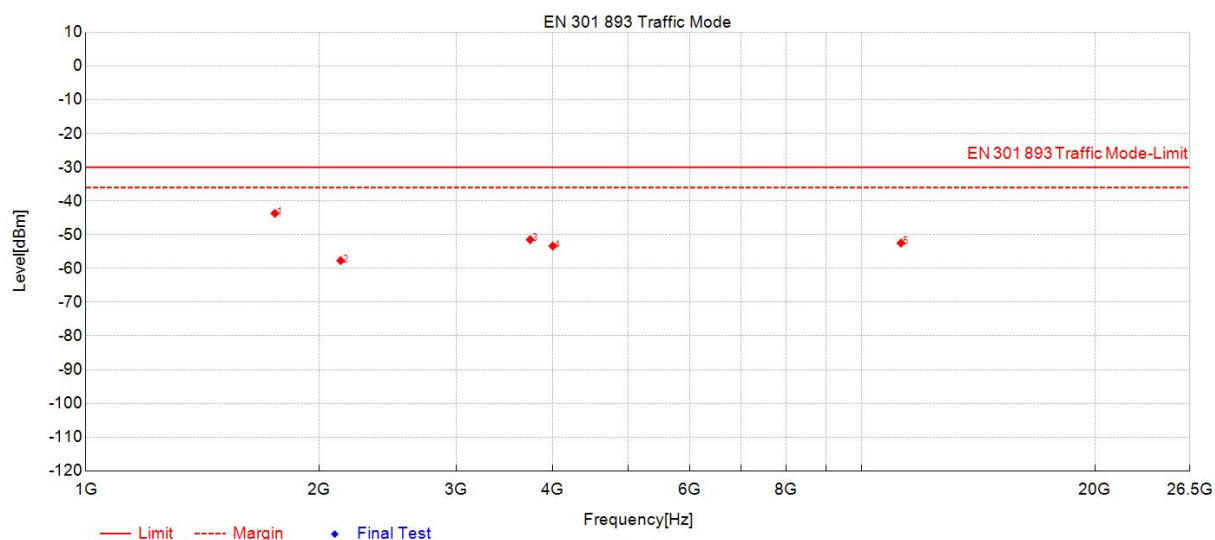
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1741.5	-52.79	-45.87	6.92	-30.00	15.87	Horizon	RMS	PASS
2	2130.5	-69.81	-57.55	12.26	-30.00	27.55	Horizon	RMS	PASS
3	2448.5	-69.70	-57.38	12.32	-30.00	27.38	Horizon	RMS	PASS
4	4000	-70.96	-52.45	18.51	-30.00	22.45	Horizon	RMS	PASS
5	11080.925	-70.36	-53.35	17.01	-30.00	23.35	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AC80MIMO_5610	Polarization	Horizontal
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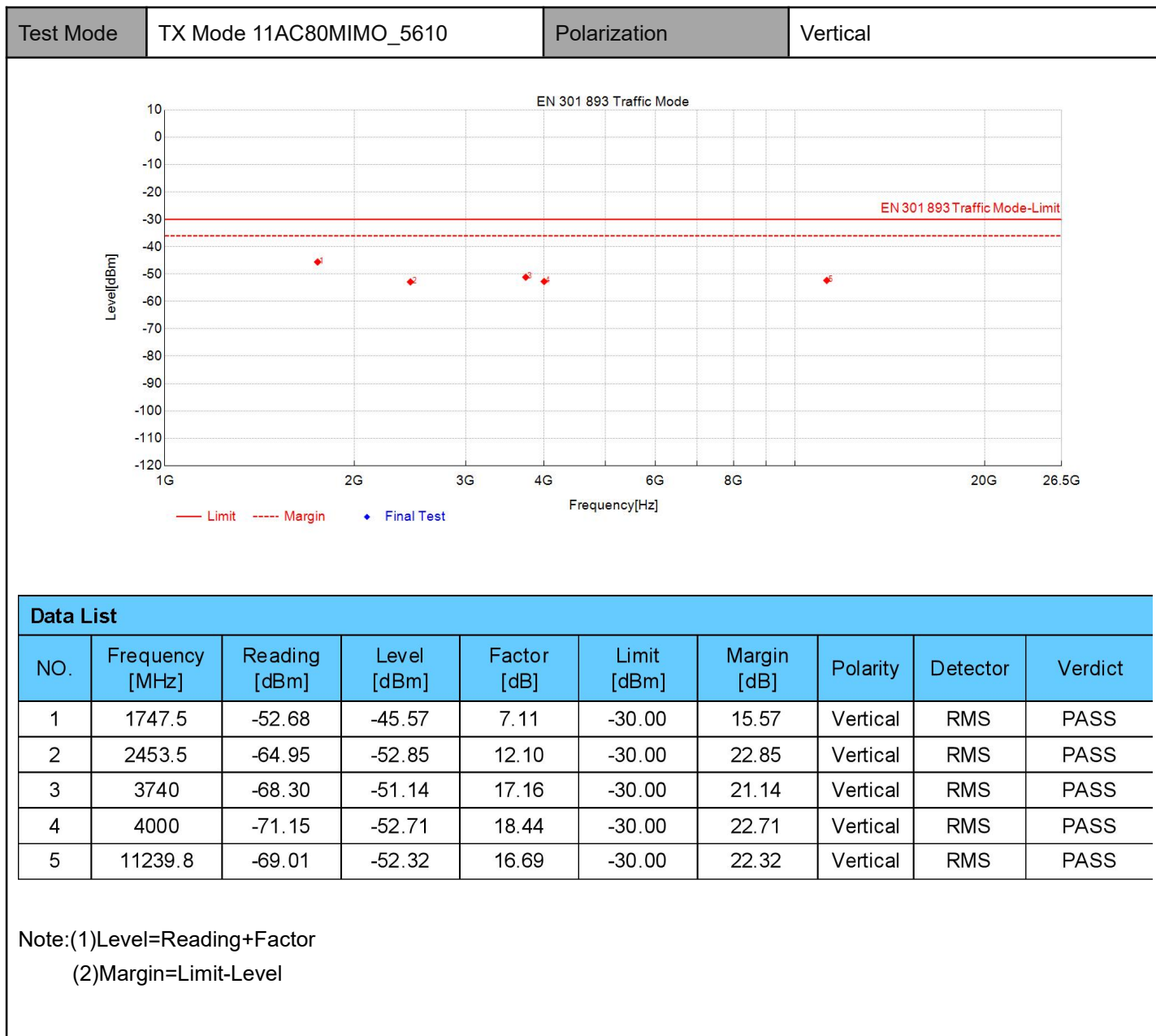


Data List

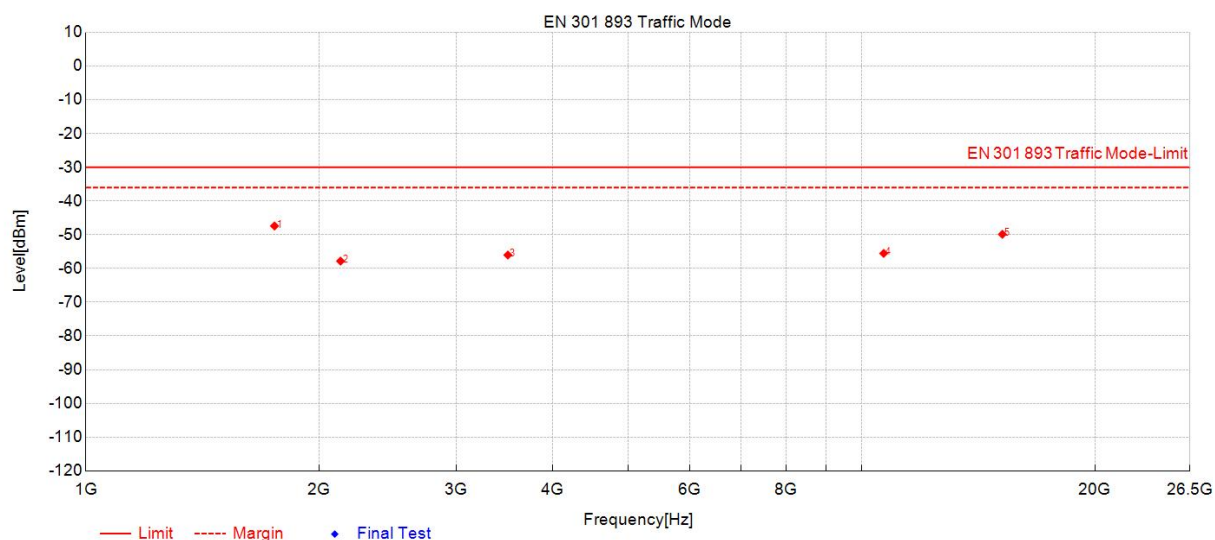
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1752.5	-50.59	-43.67	6.92	-30.00	13.67	Horizon	RMS	PASS
2	2130.5	-69.92	-57.66	12.26	-30.00	27.66	Horizon	RMS	PASS
3	3740	-68.49	-51.45	17.04	-30.00	21.45	Horizon	RMS	PASS
4	4000	-71.85	-53.34	18.51	-30.00	23.34	Horizon	RMS	PASS
5	11248	-69.50	-52.47	17.03	-30.00	22.47	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AC160MIMO_5250	Polarization	Horizontal
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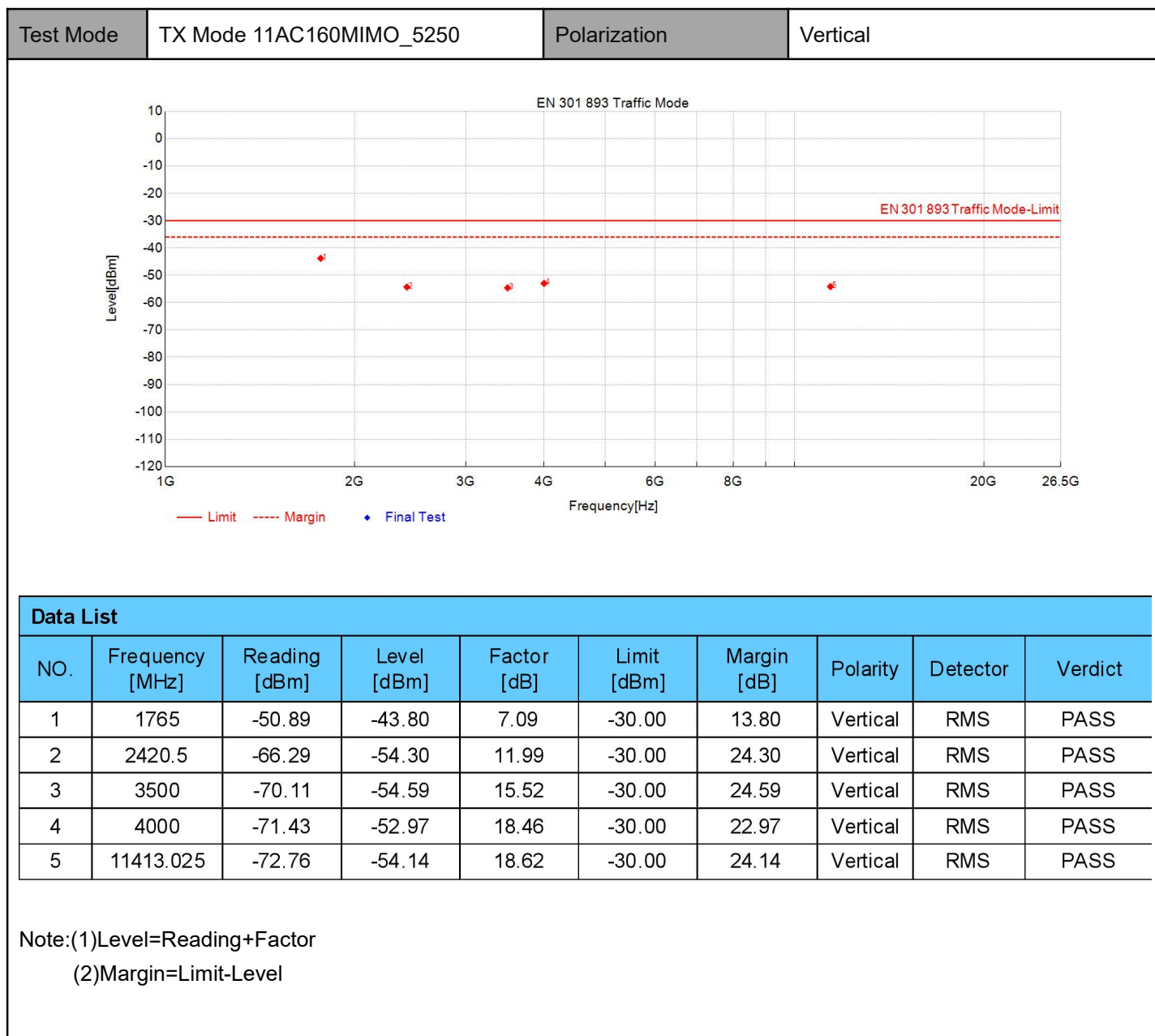


Data List

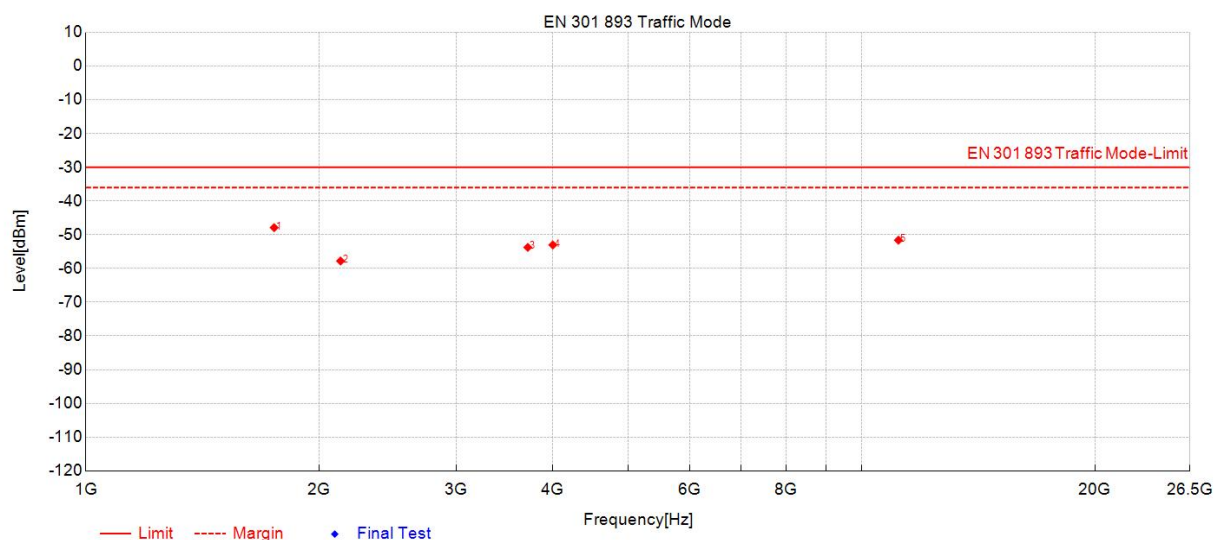
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1750.5	-54.31	-47.40	6.91	-30.00	17.40	Horizon	RMS	PASS
2	2129.5	-70.10	-57.81	12.29	-30.00	27.81	Horizon	RMS	PASS
3	3500	-71.47	-56.00	15.47	-30.00	26.00	Horizon	RMS	PASS
4	10685.275	-73.05	-55.52	17.53	-30.00	25.52	Horizon	RMS	PASS
5	15199.375	-73.39	-49.87	23.52	-30.00	19.87	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AC160MIMO_5570	Polarization	Horizontal
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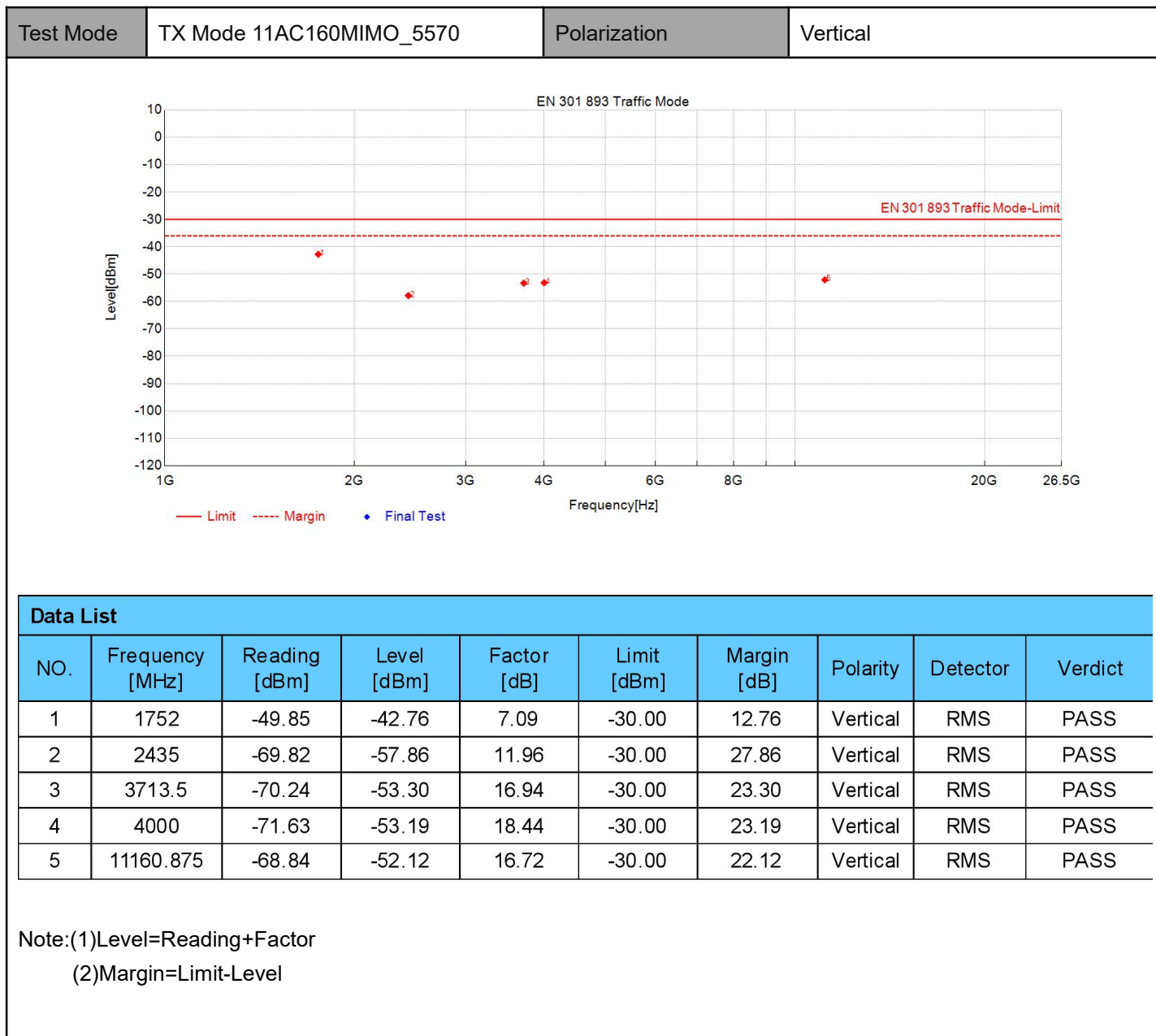


Data List

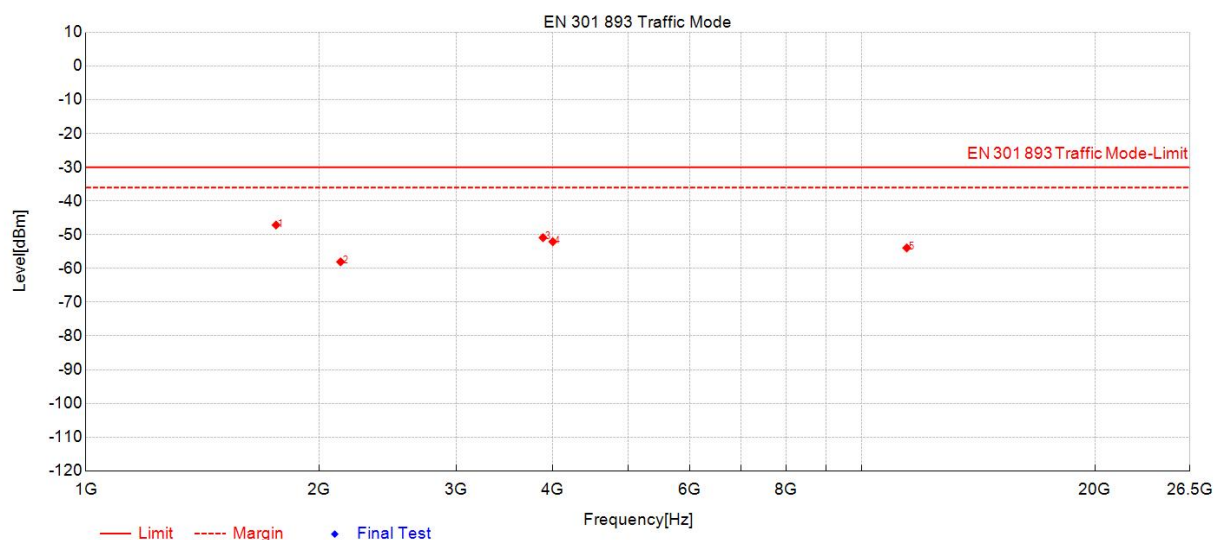
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1748.5	-54.82	-47.89	6.93	-30.00	17.89	Horizon	RMS	PASS
2	2129.5	-70.04	-57.78	12.26	-30.00	27.78	Horizon	RMS	PASS
3	3713.5	-70.54	-53.73	16.81	-30.00	23.73	Horizon	RMS	PASS
4	4000	-71.54	-53.03	18.51	-30.00	23.03	Horizon	RMS	PASS
5	11161.9	-68.58	-51.61	16.97	-30.00	21.61	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AX20MIMO_5180	Polarization	Horizontal
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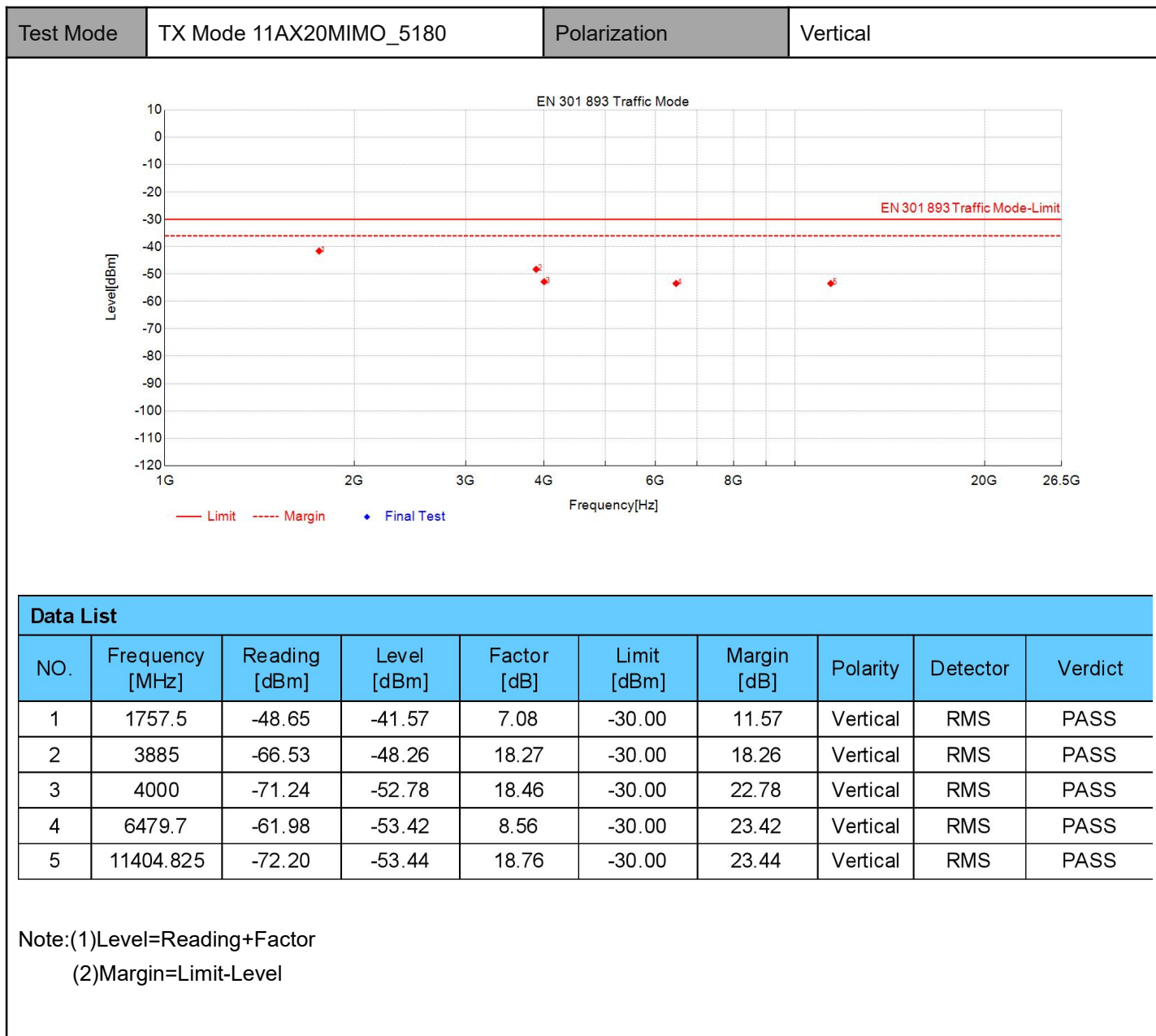


Data List

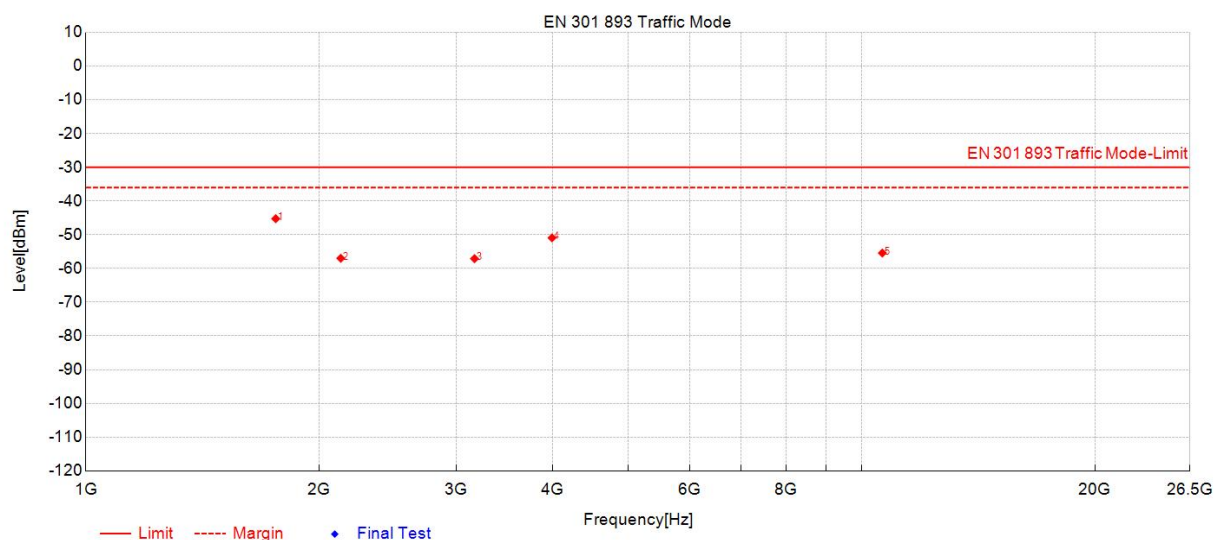
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1758.5	-54.04	-47.12	6.92	-30.00	17.12	Horizon	RMS	PASS
2	2130	-70.32	-58.03	12.29	-30.00	28.03	Horizon	RMS	PASS
3	3885	-69.29	-50.86	18.43	-30.00	20.86	Horizon	RMS	PASS
4	4000	-70.60	-52.07	18.53	-30.00	22.07	Horizon	RMS	PASS
5	11441.725	-72.36	-53.90	18.46	-30.00	23.90	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AX20MIMO_5320	Polarization	Horizontal
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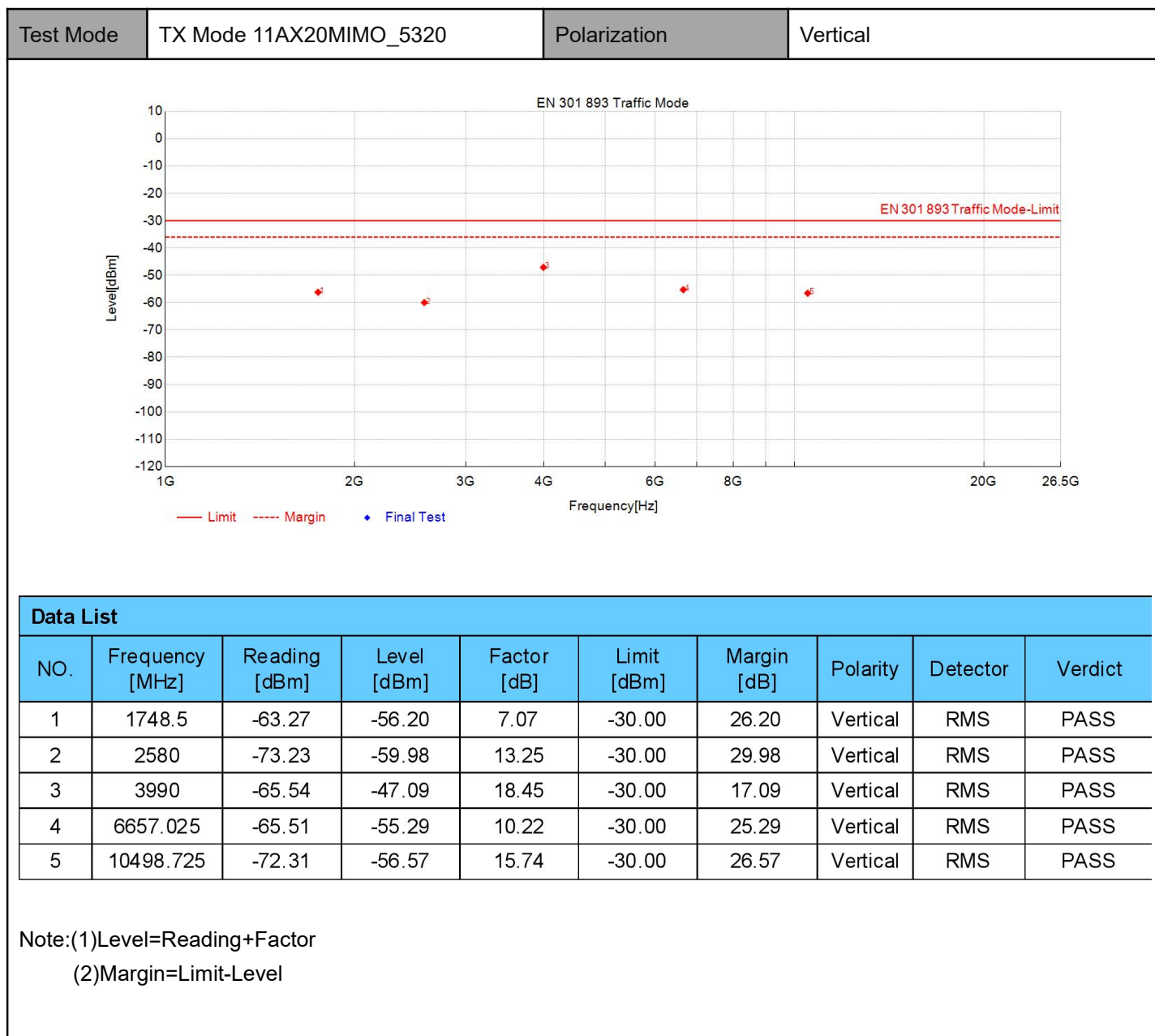


Data List

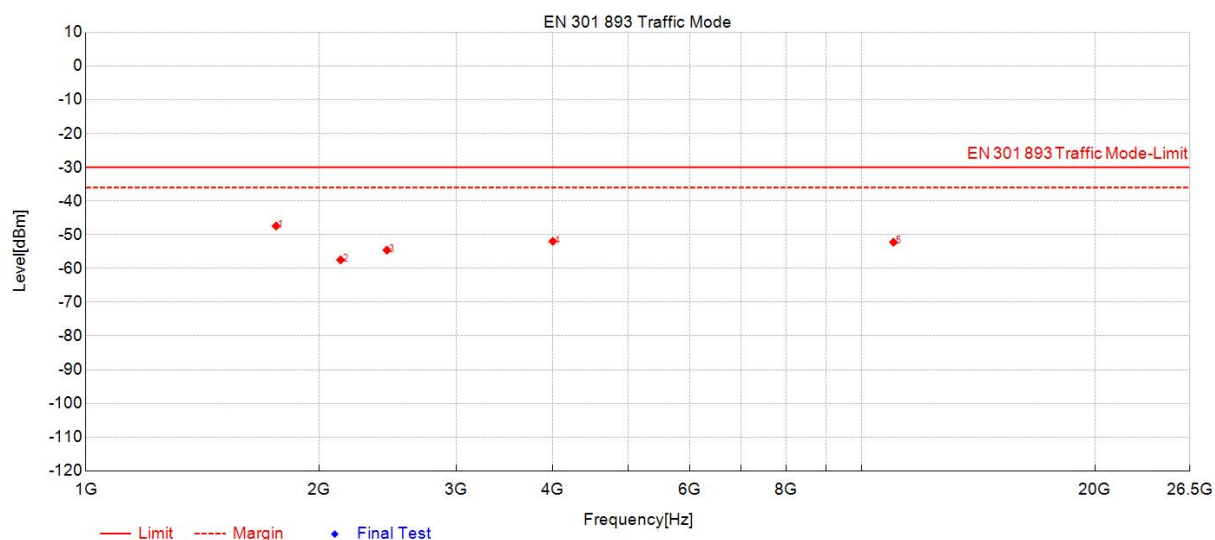
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1757	-52.16	-45.24	6.92	-30.00	15.24	Horizon	RMS	PASS
2	2131	-69.27	-56.98	12.29	-30.00	26.98	Horizon	RMS	PASS
3	3170	-73.35	-57.08	16.27	-30.00	27.08	Horizon	RMS	PASS
4	3990	-69.45	-50.92	18.53	-30.00	20.92	Horizon	RMS	PASS
5	10641.2	-72.33	-55.42	16.91	-30.00	25.42	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AX20MIMO_5500	Polarization	Horizontal
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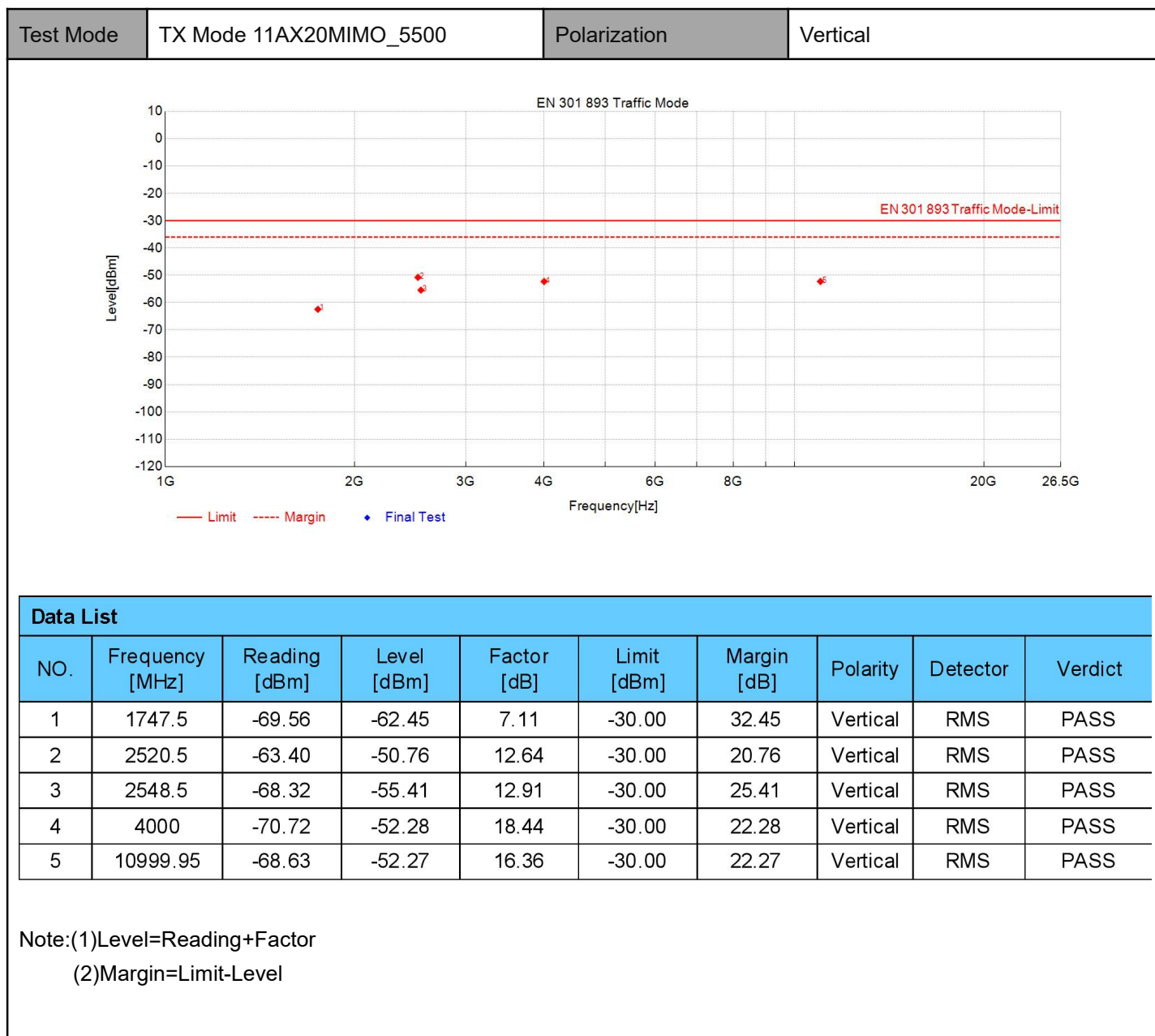


Data List

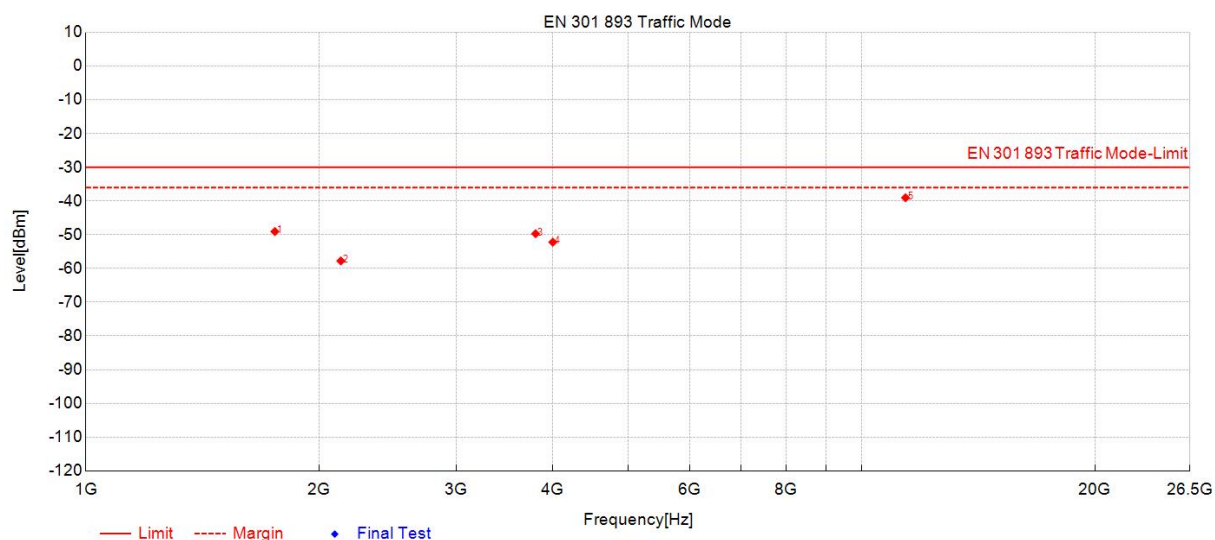
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1759	-54.33	-47.40	6.93	-30.00	17.40	Horizon	RMS	PASS
2	2129.5	-69.71	-57.45	12.26	-30.00	27.45	Horizon	RMS	PASS
3	2444	-66.87	-54.56	12.31	-30.00	24.56	Horizon	RMS	PASS
4	4000	-70.48	-51.97	18.51	-30.00	21.97	Horizon	RMS	PASS
5	10999.95	-69.45	-52.21	17.24	-30.00	22.21	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AX20MIMO_5700	Polarization	Horizontal
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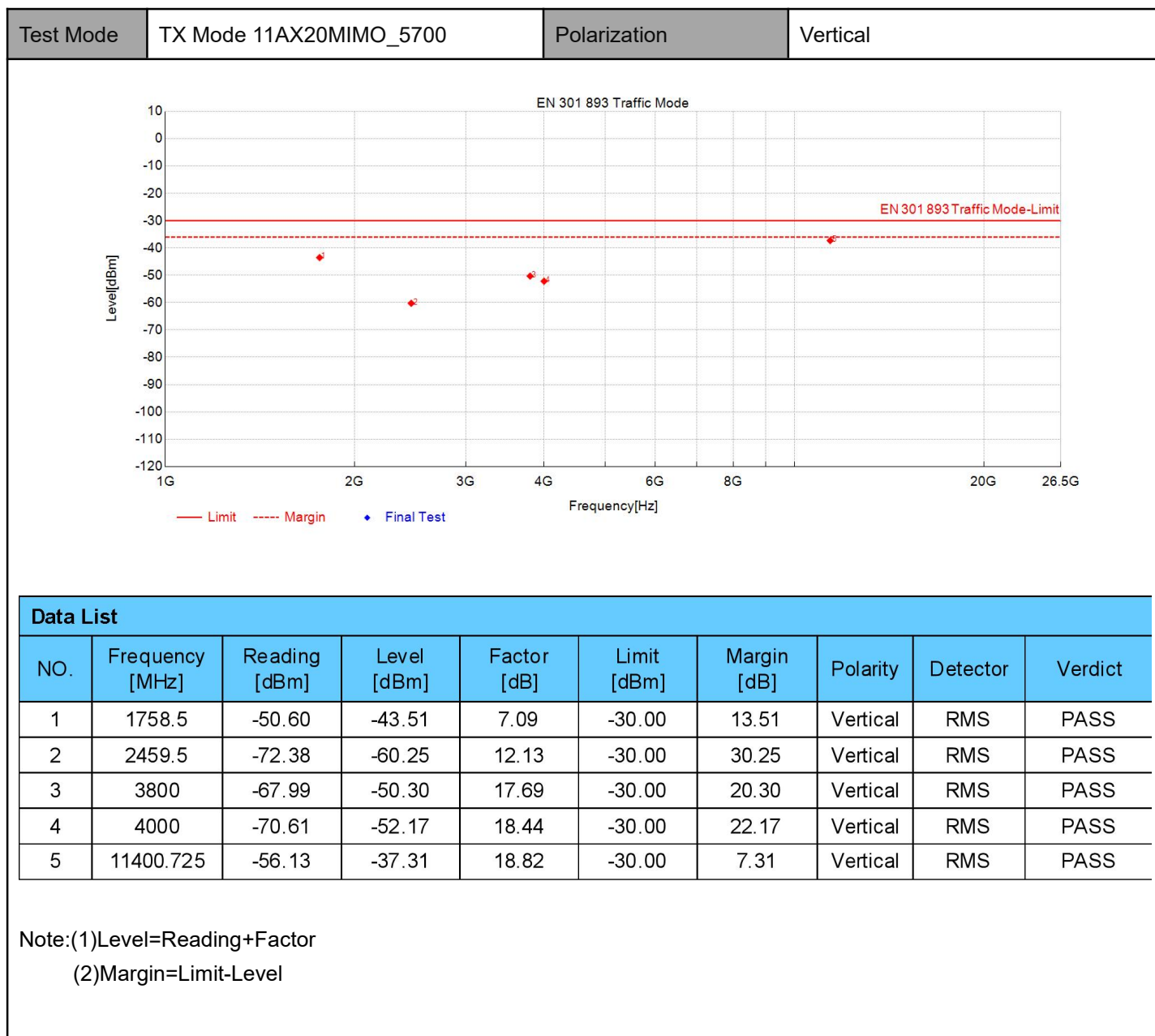


Data List

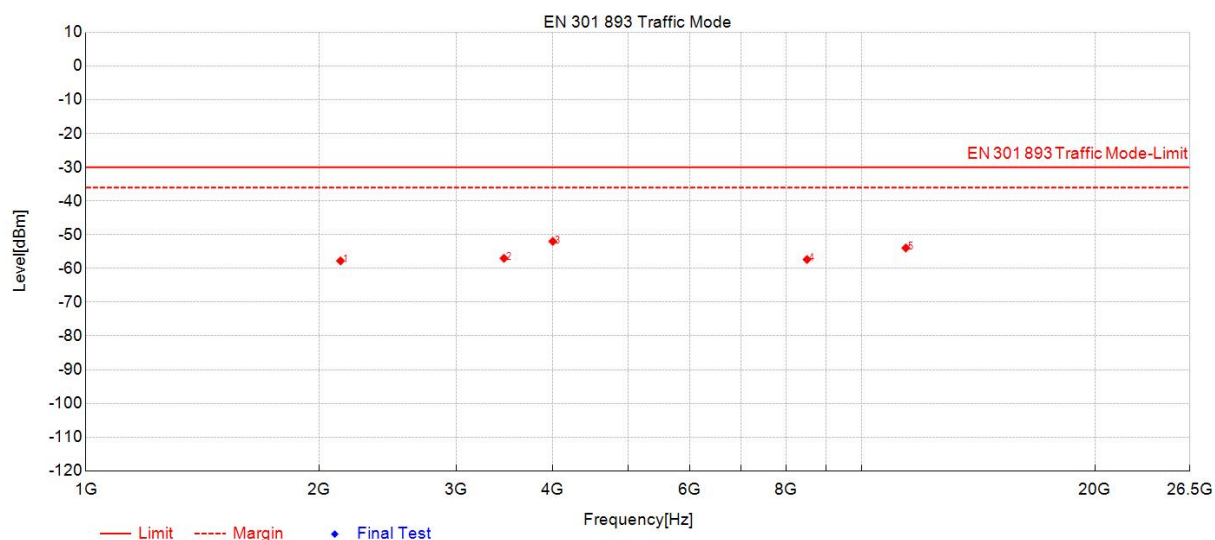
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1752.5	-55.97	-49.05	6.92	-30.00	19.05	Horizon	RMS	PASS
2	2131.5	-70.03	-57.76	12.27	-30.00	27.76	Horizon	RMS	PASS
3	3800	-67.27	-49.69	17.58	-30.00	19.69	Horizon	RMS	PASS
4	4000	-70.71	-52.20	18.51	-30.00	22.20	Horizon	RMS	PASS
5	11399.7	-57.96	-39.02	18.94	-30.00	9.02	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AX40MIMO_5190	Polarization	Horizontal
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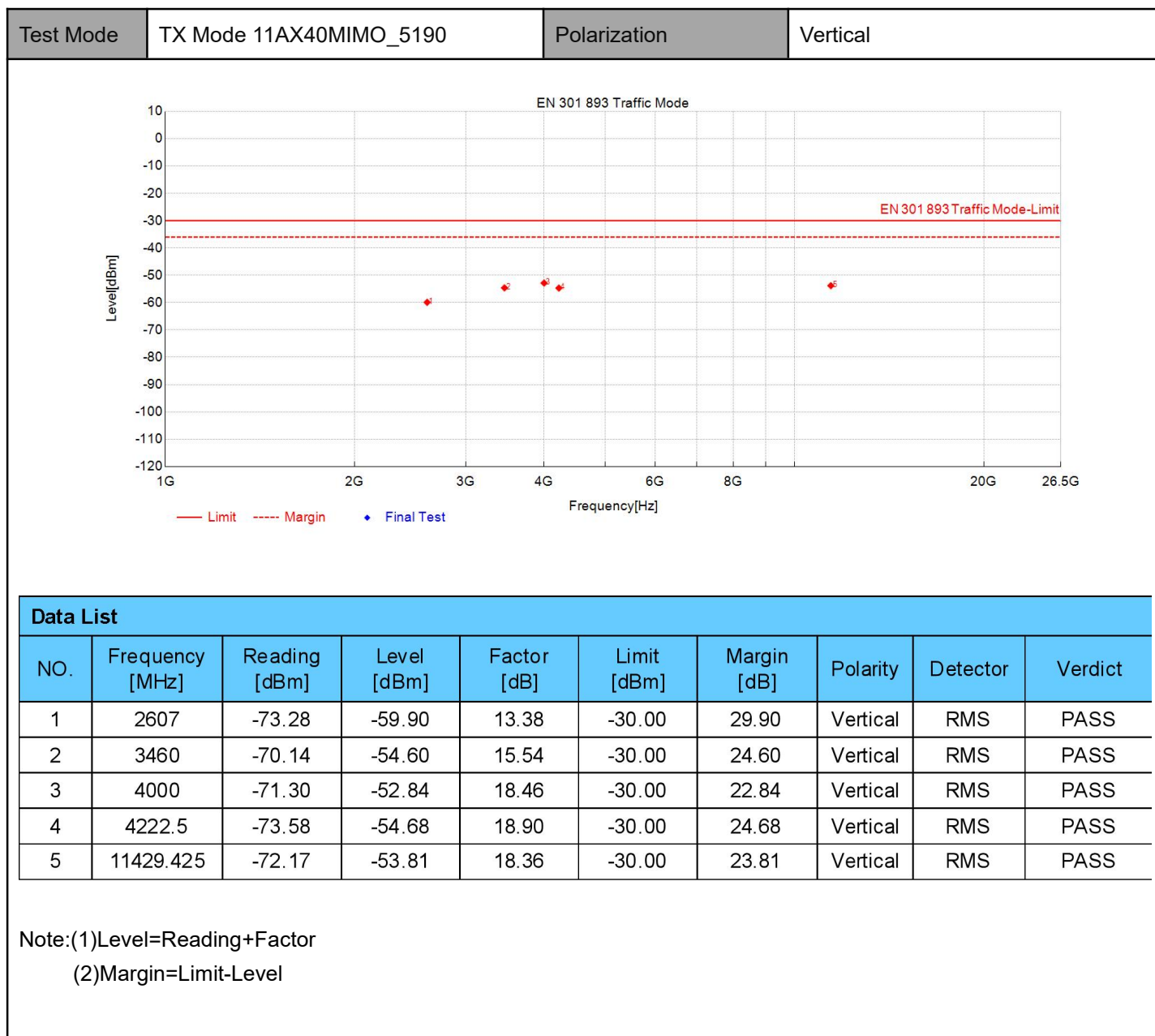


Data List

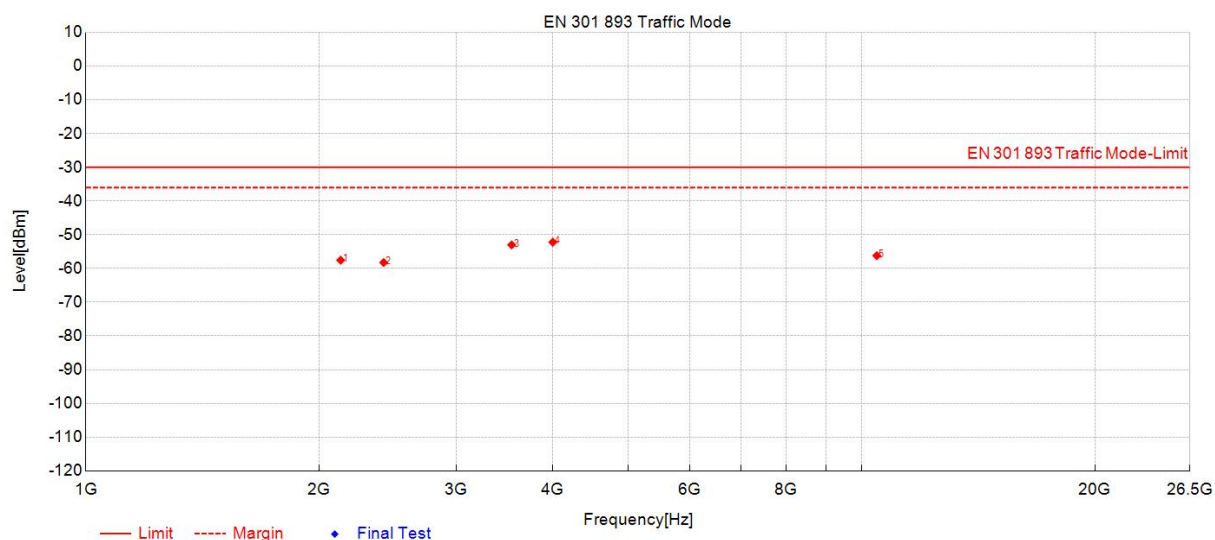
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2129.5	-70.04	-57.75	12.29	-30.00	27.75	Horizon	RMS	PASS
2	3460	-72.52	-56.98	15.54	-30.00	26.98	Horizon	RMS	PASS
3	4000	-70.50	-51.97	18.53	-30.00	21.97	Horizon	RMS	PASS
4	8509.2	-70.22	-57.33	12.89	-30.00	27.33	Horizon	RMS	PASS
5	11410.975	-72.74	-53.92	18.82	-30.00	23.92	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AX40MIMO_5310	Polarization	Horizontal
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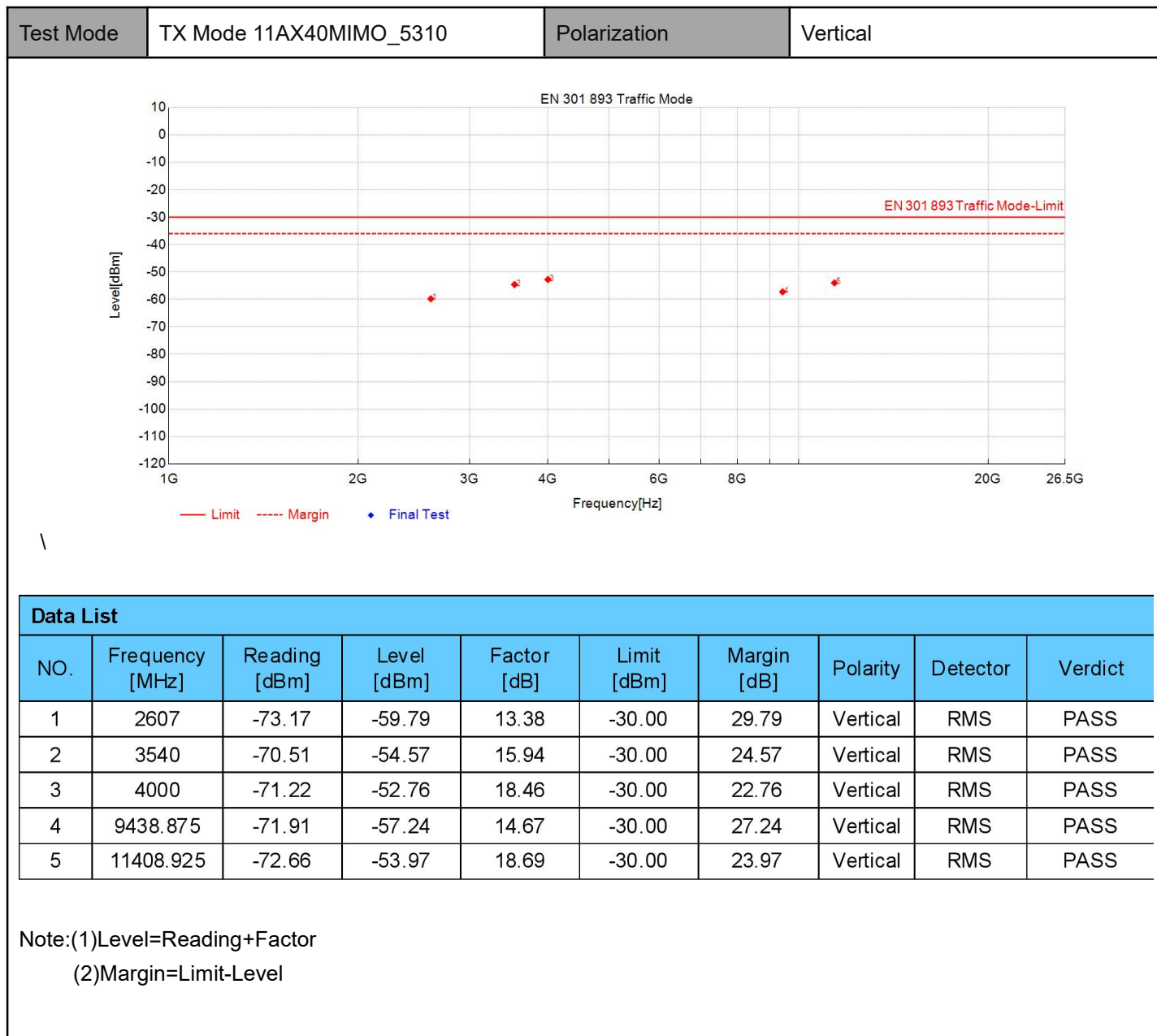


Data List

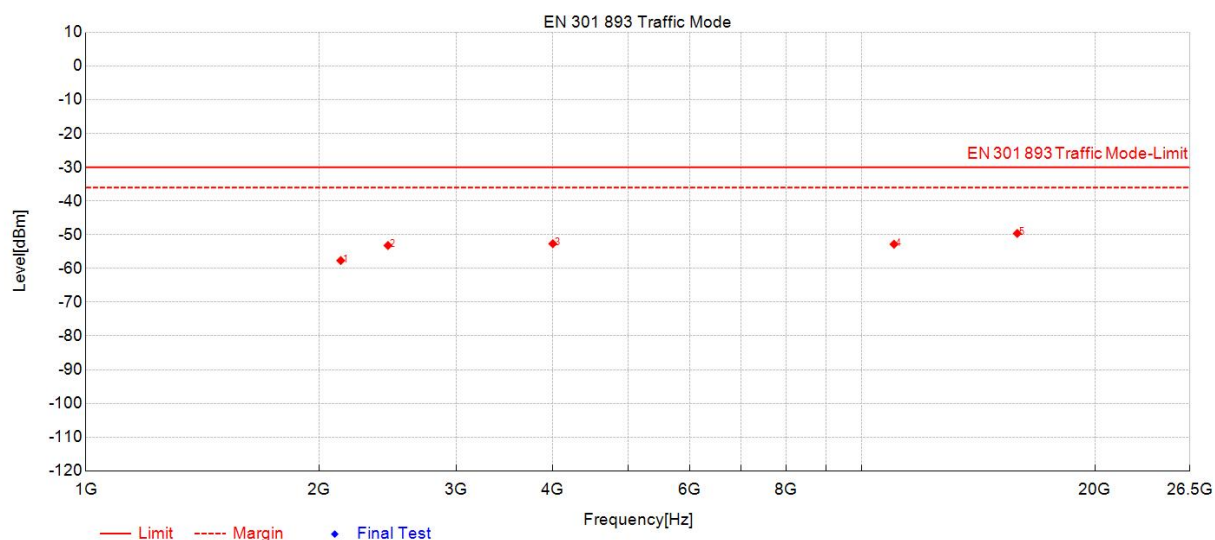
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2130.5	-69.84	-57.55	12.29	-30.00	27.55	Horizon	RMS	PASS
2	2420.5	-70.64	-58.22	12.42	-30.00	28.22	Horizon	RMS	PASS
3	3540	-68.77	-53.00	15.77	-30.00	23.00	Horizon	RMS	PASS
4	4000	-70.73	-52.20	18.53	-30.00	22.20	Horizon	RMS	PASS
5	10469	-72.26	-56.20	16.06	-30.00	26.20	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AX40MIMO_5510	Polarization	Horizontal
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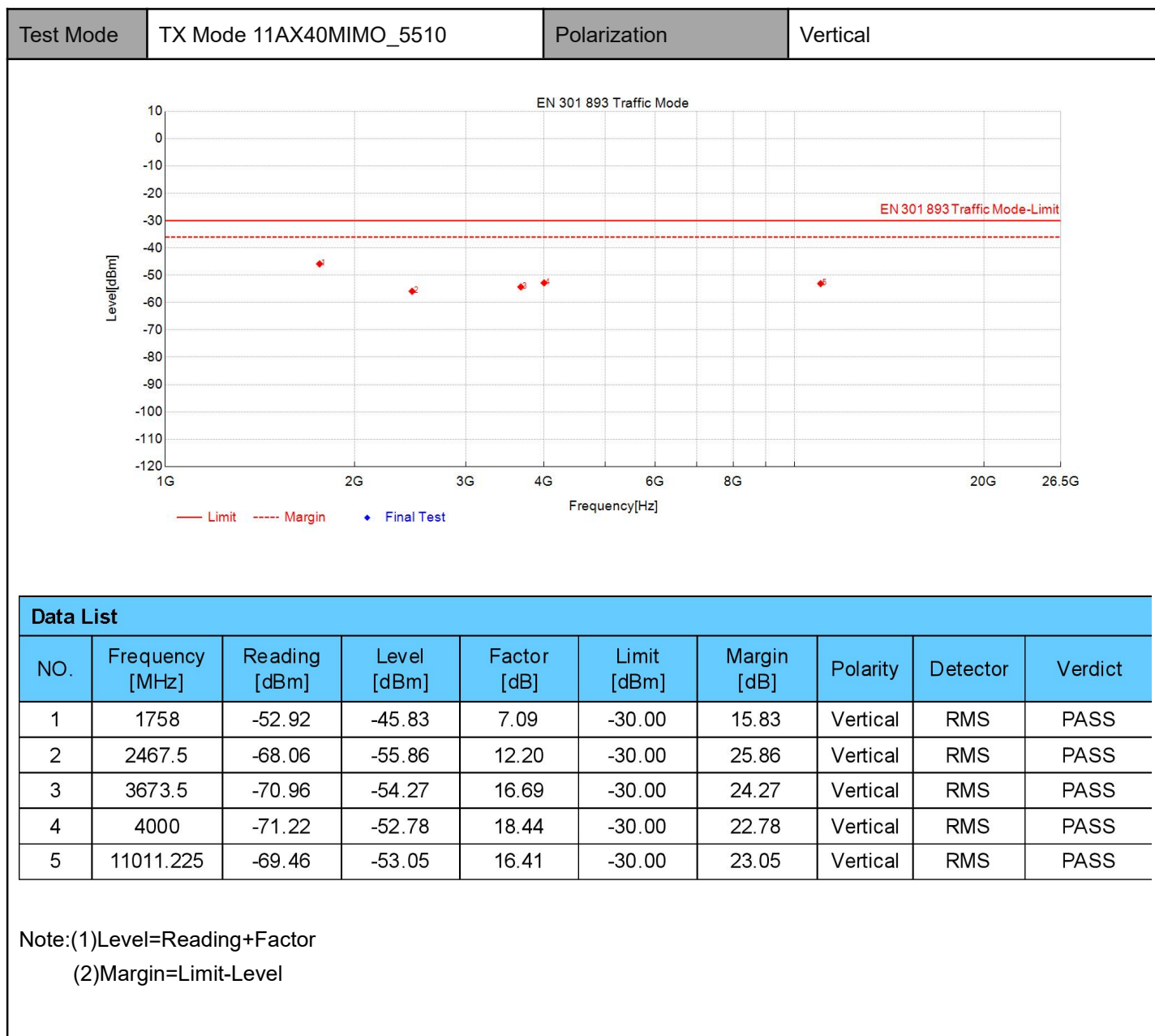


Data List

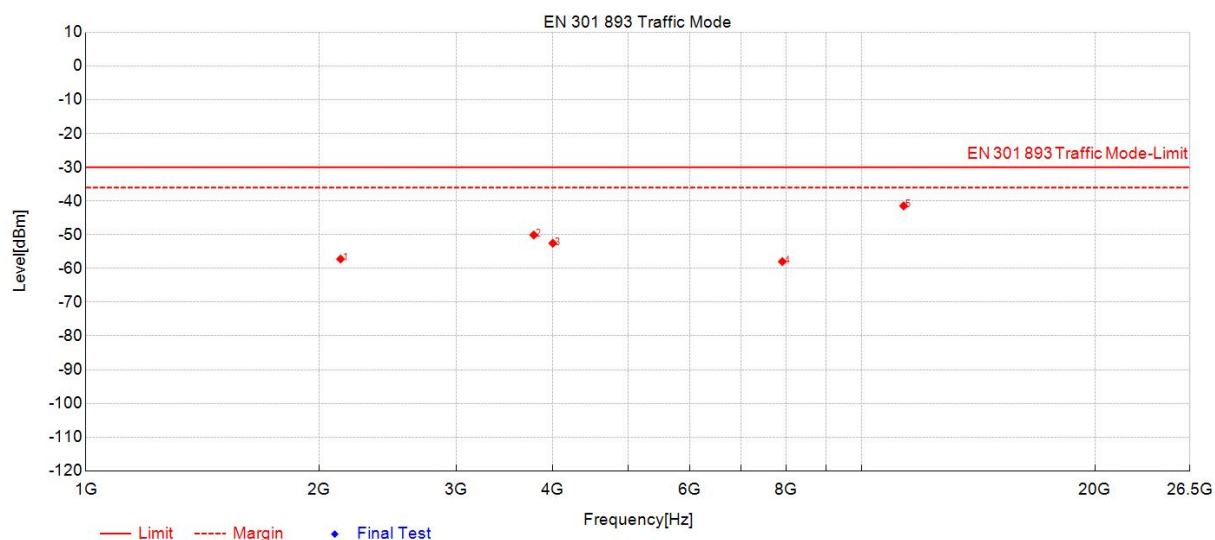
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2131	-69.91	-57.65	12.26	-30.00	27.65	Horizon	RMS	PASS
2	2451.5	-65.52	-53.19	12.33	-30.00	23.19	Horizon	RMS	PASS
3	4000	-71.17	-52.66	18.51	-30.00	22.66	Horizon	RMS	PASS
4	11017.375	-69.99	-52.81	17.18	-30.00	22.81	Horizon	RMS	PASS
5	15886.125	-71.78	-49.60	22.18	-30.00	19.60	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AX40MIMO_5670	Polarization	Horizontal
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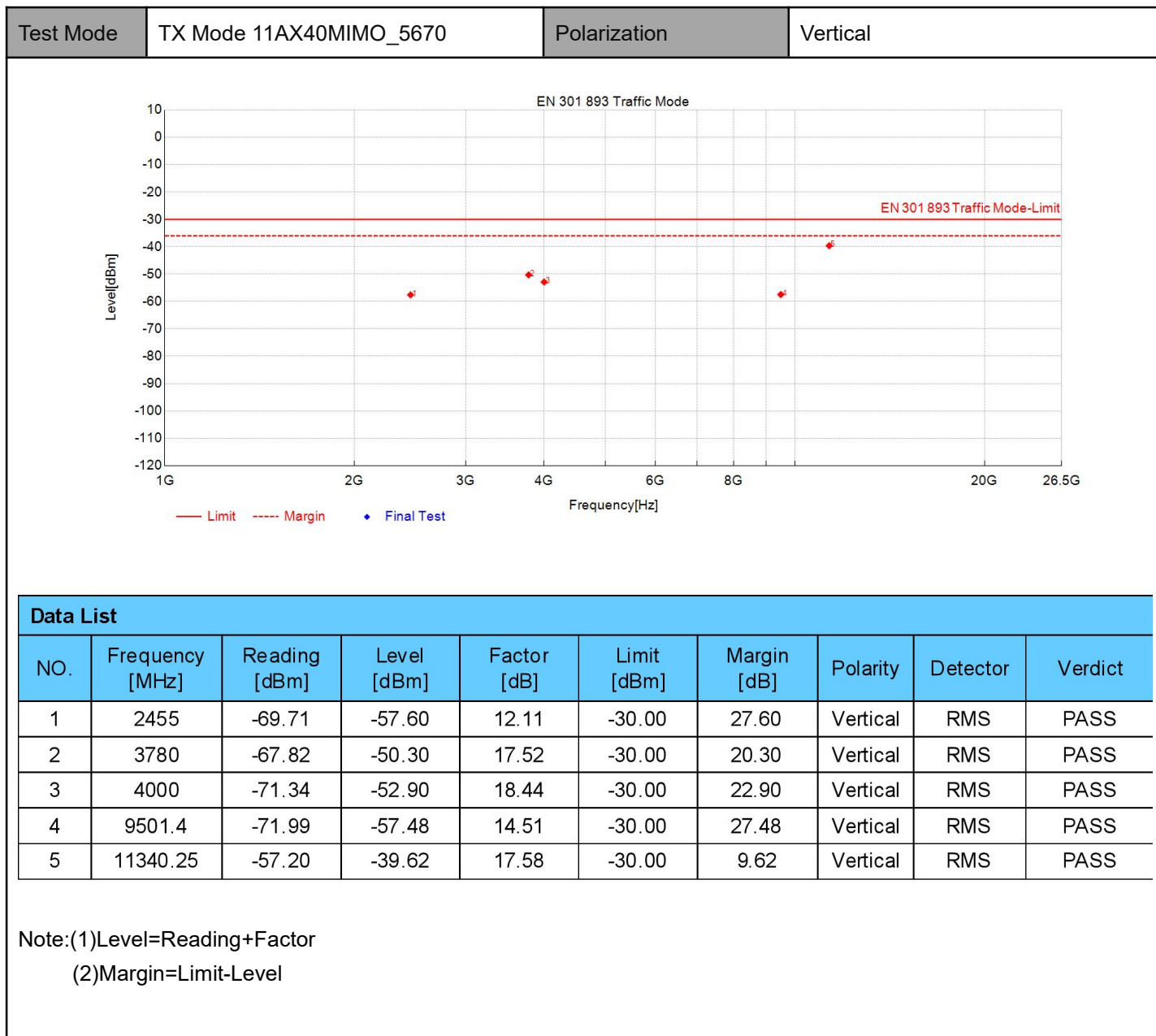


Data List

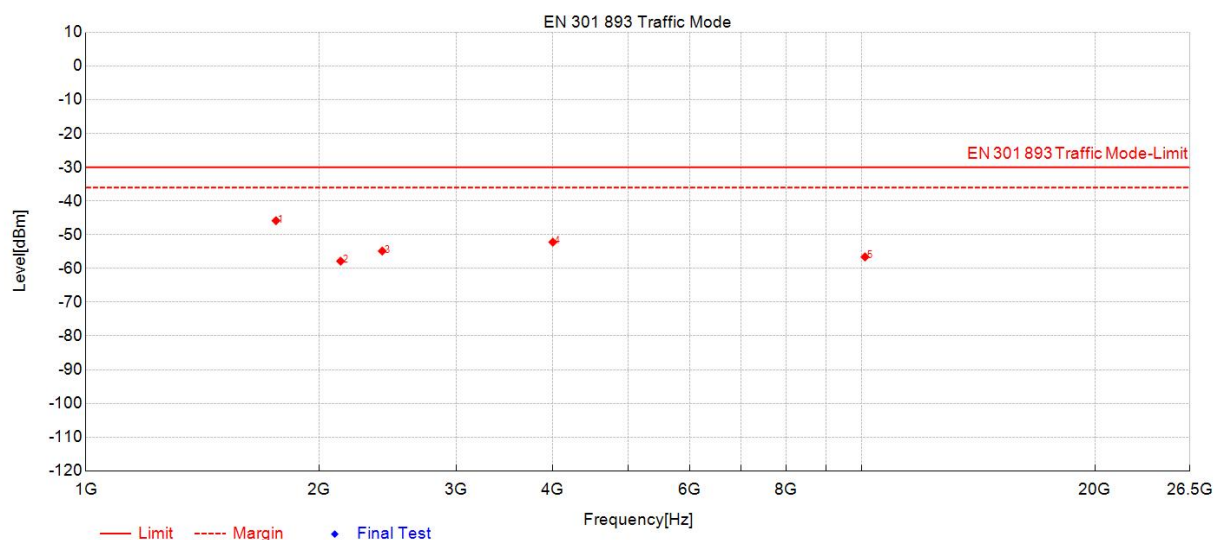
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2130	-69.46	-57.20	12.26	-30.00	27.20	Horizon	RMS	PASS
2	3780	-67.46	-50.06	17.40	-30.00	20.06	Horizon	RMS	PASS
3	4000	-71.02	-52.51	18.51	-30.00	22.51	Horizon	RMS	PASS
4	7907.525	-70.68	-57.96	12.72	-30.00	27.96	Horizon	RMS	PASS
5	11337.175	-59.21	-41.45	17.76	-30.00	11.45	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AX80MIMO_5210	Polarization	Horizontal
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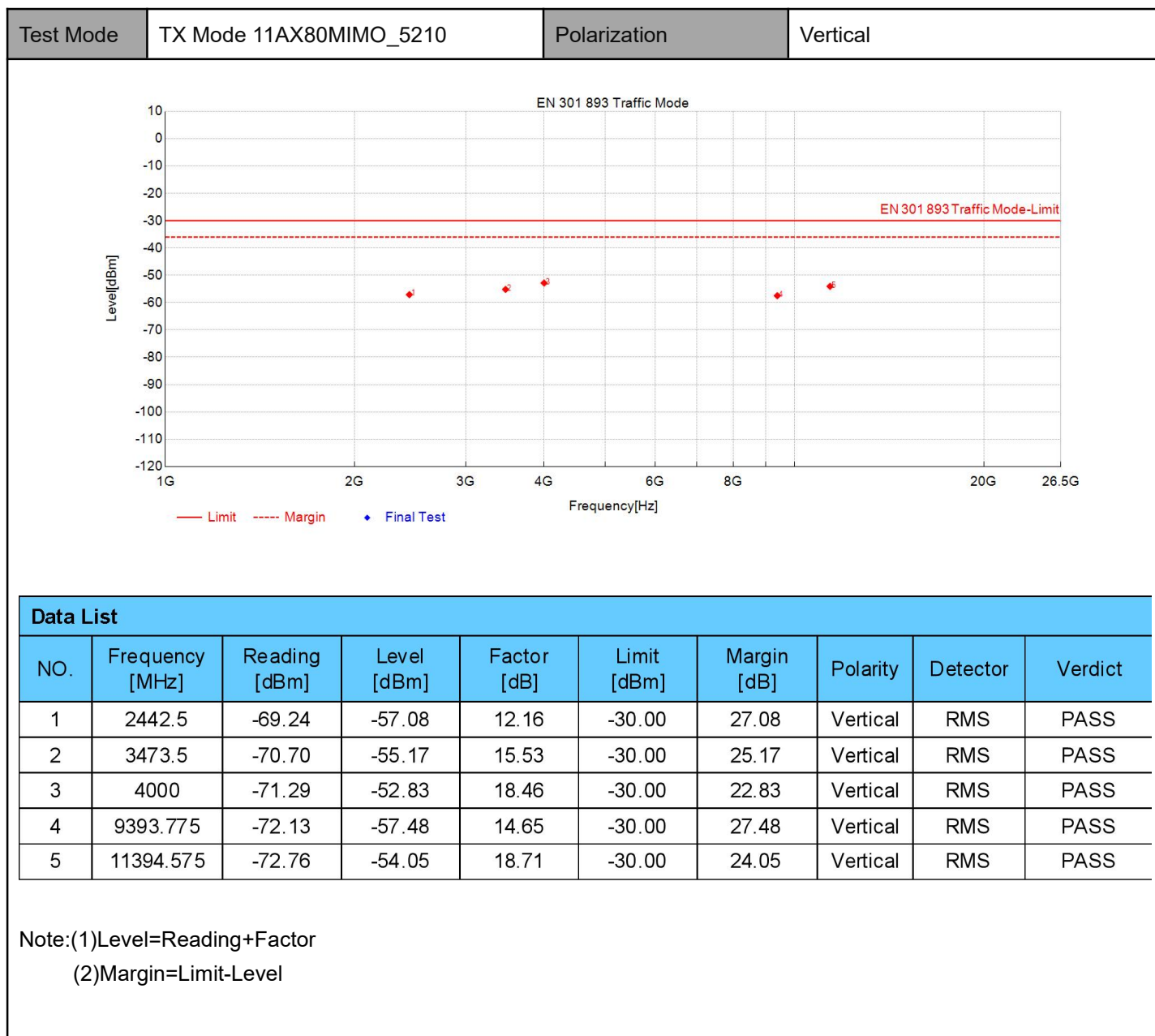


Data List

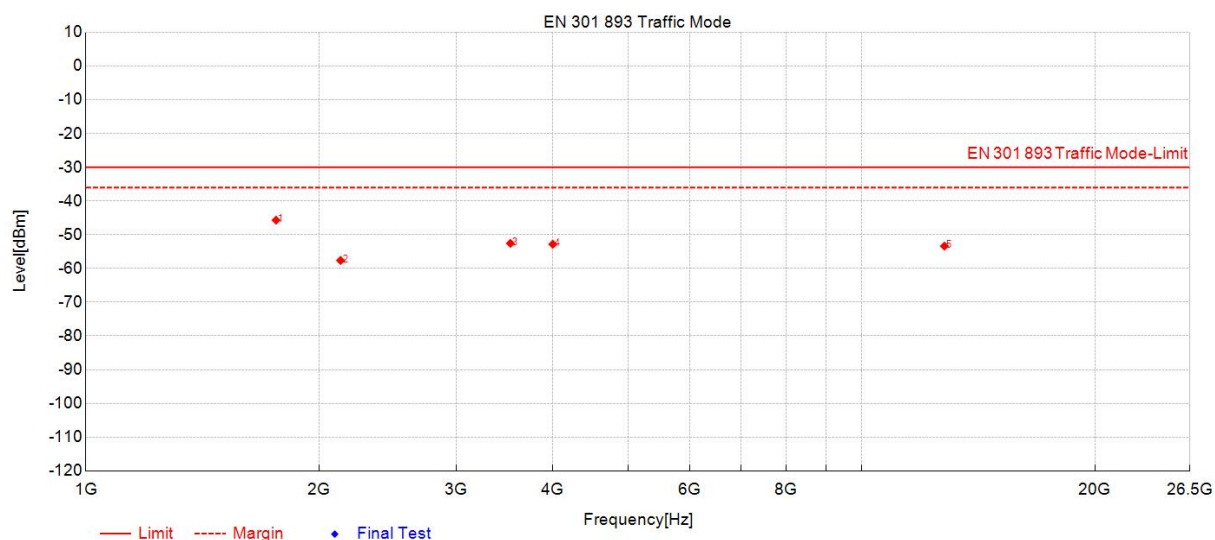
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1758	-52.75	-45.83	6.92	-30.00	15.83	Horizon	RMS	PASS
2	2130	-70.12	-57.83	12.29	-30.00	27.83	Horizon	RMS	PASS
3	2410.5	-67.22	-54.83	12.39	-30.00	24.83	Horizon	RMS	PASS
4	4000	-70.72	-52.19	18.53	-30.00	22.19	Horizon	RMS	PASS
5	10107.175	-72.27	-56.57	15.70	-30.00	26.57	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AX80MIMO_5290	Polarization	Horizontal
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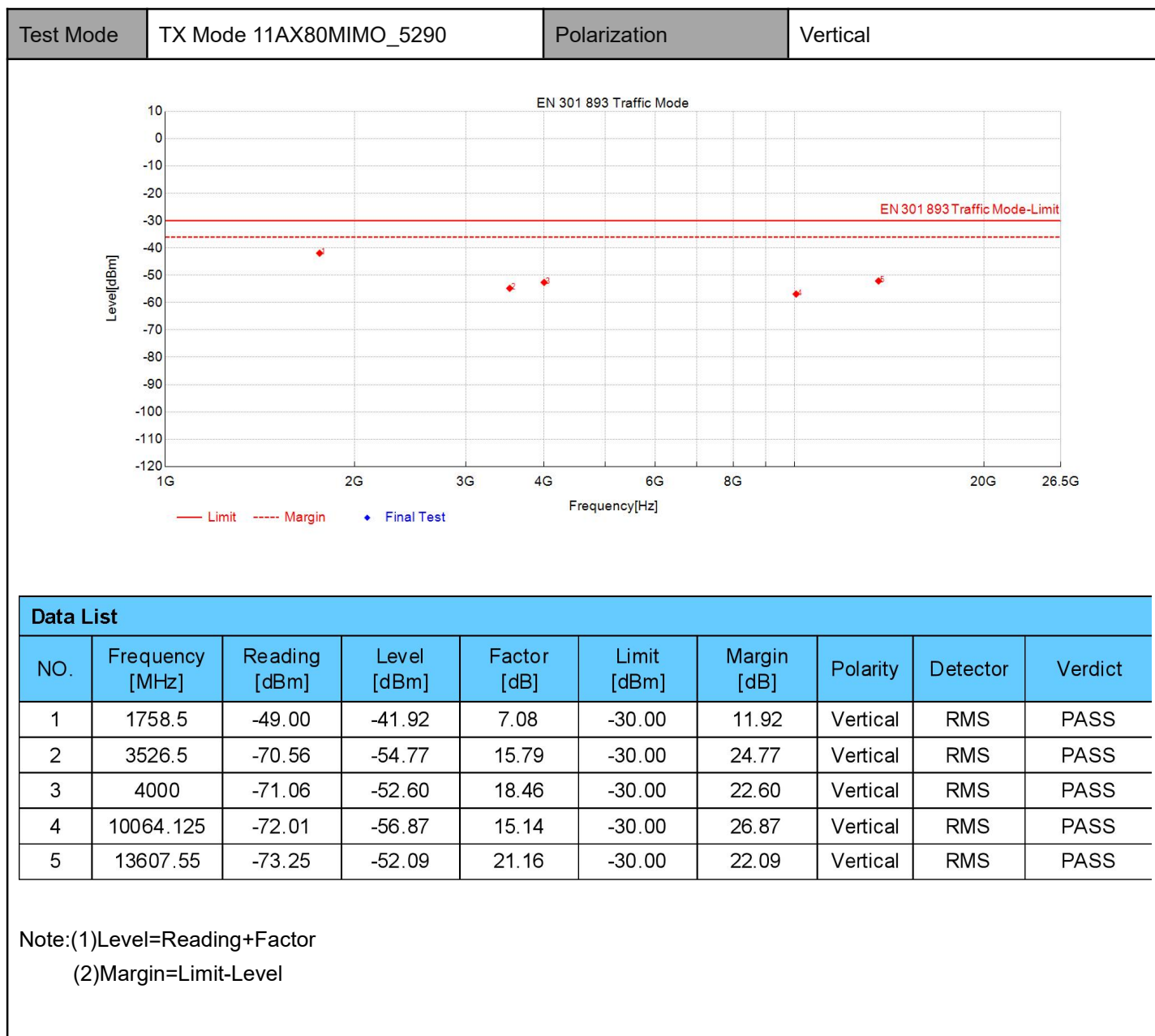


Data List

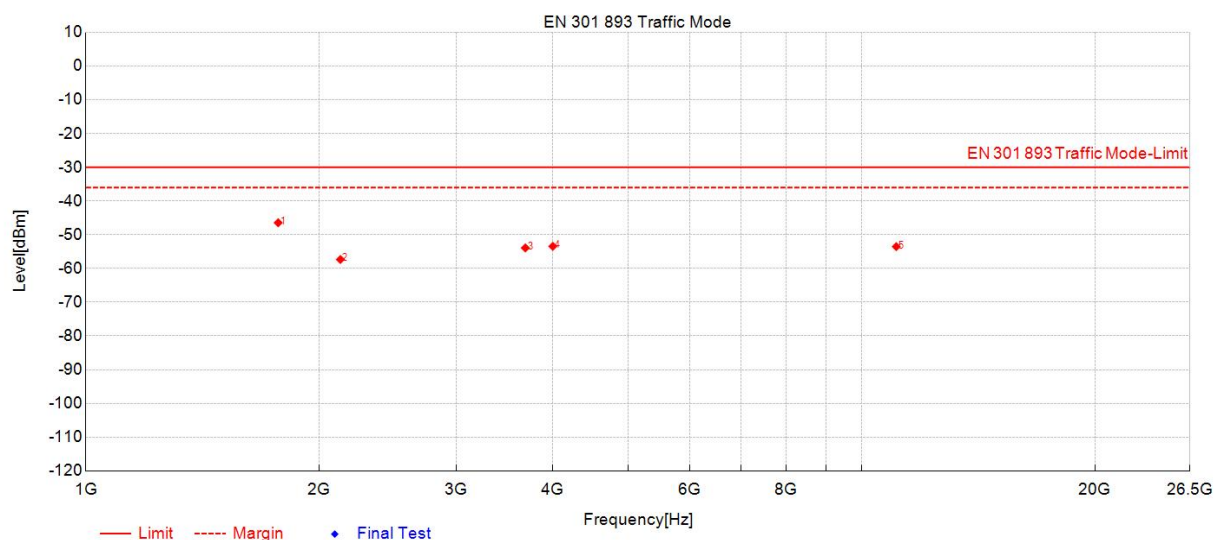
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1758.5	-52.60	-45.68	6.92	-30.00	15.68	Horizon	RMS	PASS
2	2129.5	-69.90	-57.61	12.29	-30.00	27.61	Horizon	RMS	PASS
3	3526.5	-68.20	-52.54	15.66	-30.00	22.54	Horizon	RMS	PASS
4	4000	-71.34	-52.81	18.53	-30.00	22.81	Horizon	RMS	PASS
5	12797.8	-72.97	-53.37	19.60	-30.00	23.37	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AX80MIMO_5530	Polarization	Horizontal
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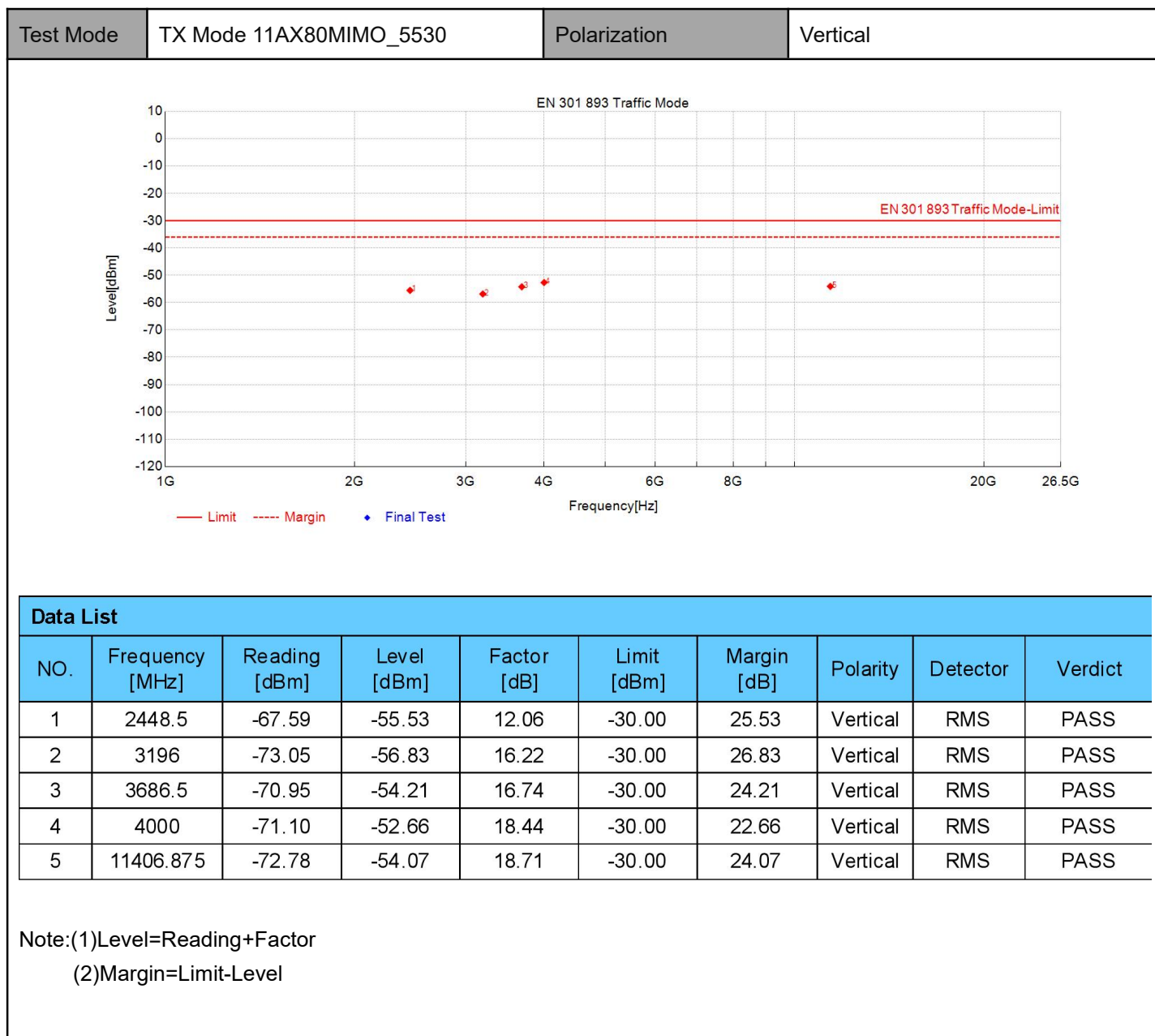


Data List

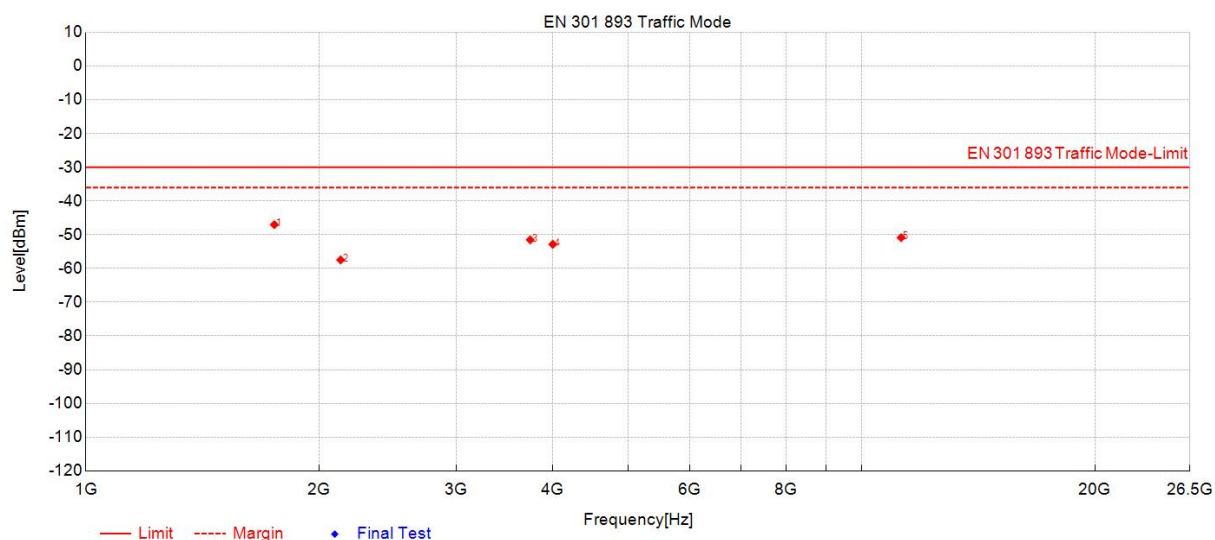
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1769.5	-53.38	-46.44	6.94	-30.00	16.44	Horizon	RMS	PASS
2	2128.5	-69.60	-57.33	12.27	-30.00	27.33	Horizon	RMS	PASS
3	3686.5	-70.46	-53.89	16.57	-30.00	23.89	Horizon	RMS	PASS
4	4000	-71.93	-53.42	18.51	-30.00	23.42	Horizon	RMS	PASS
5	11091.175	-70.49	-53.51	16.98	-30.00	23.51	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AX80MIMO_5610	Polarization	Horizontal
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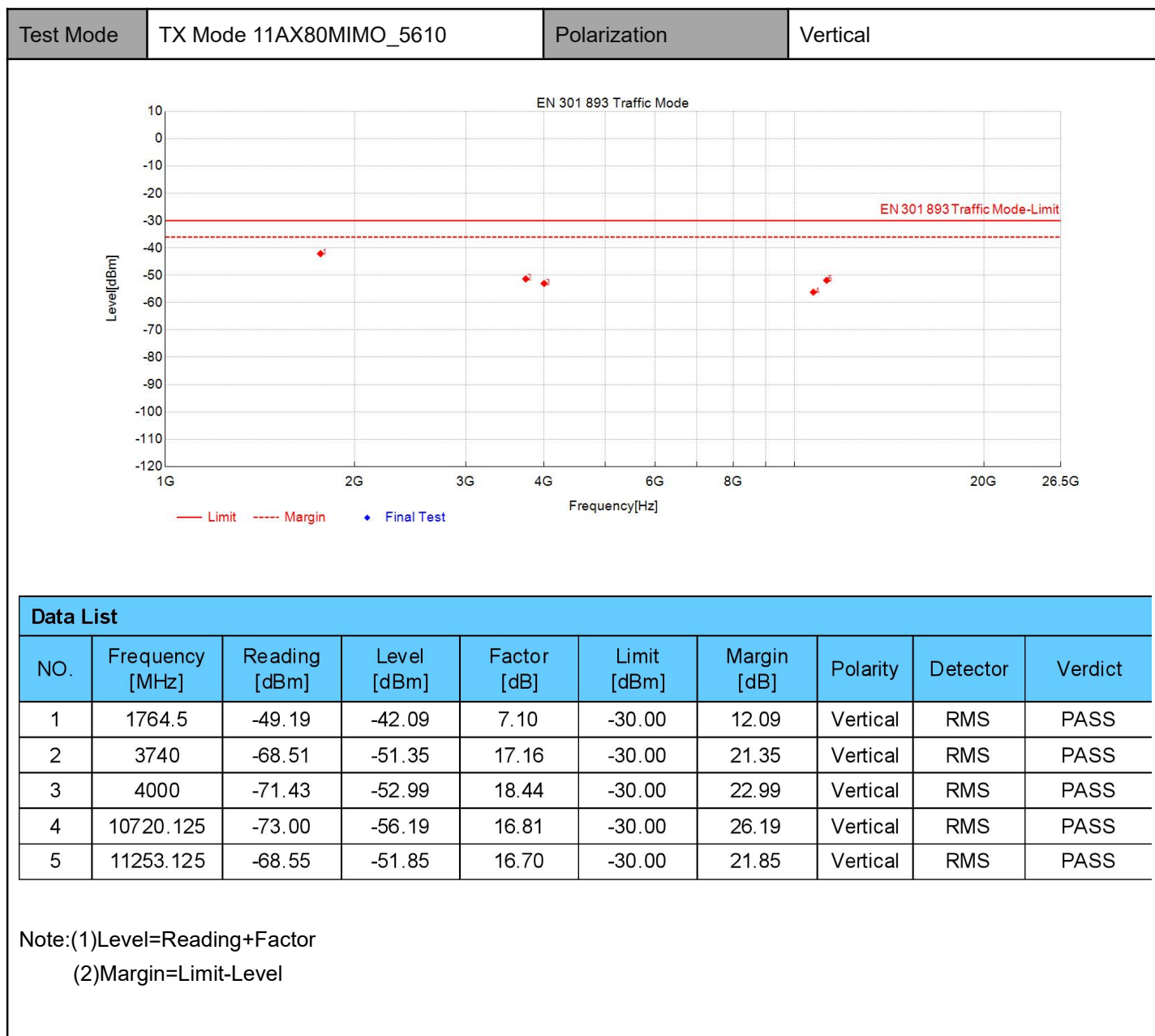


Data List

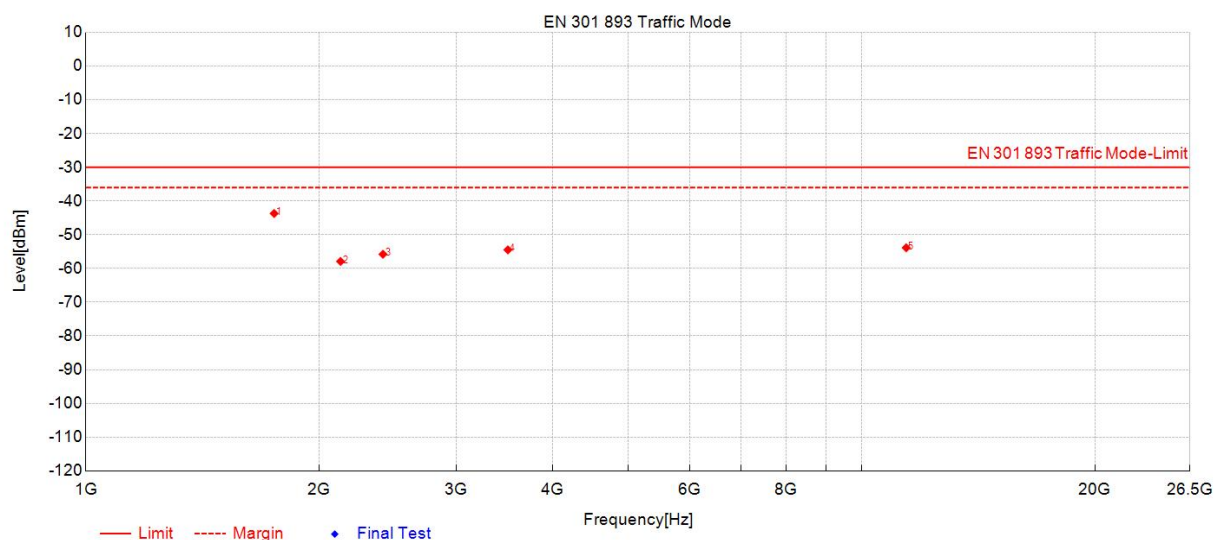
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1749.5	-53.93	-47.00	6.93	-30.00	17.00	Horizon	RMS	PASS
2	2130	-69.73	-57.47	12.26	-30.00	27.47	Horizon	RMS	PASS
3	3740	-68.55	-51.51	17.04	-30.00	21.51	Horizon	RMS	PASS
4	4000	-71.35	-52.84	18.51	-30.00	22.84	Horizon	RMS	PASS
5	11252.1	-67.88	-50.86	17.02	-30.00	20.86	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AX160MIMO_5250	Polarization	Horizontal
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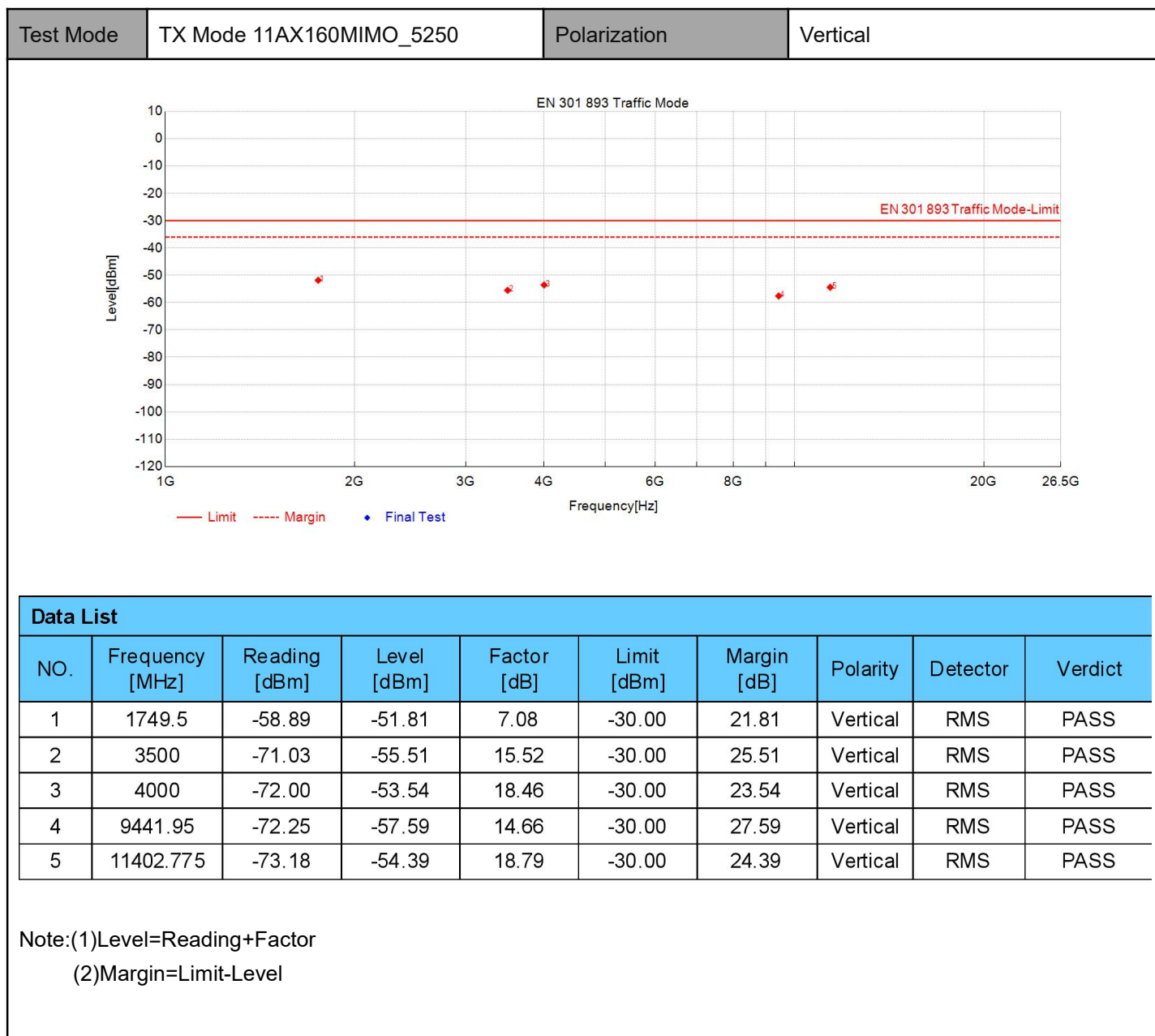


Data List

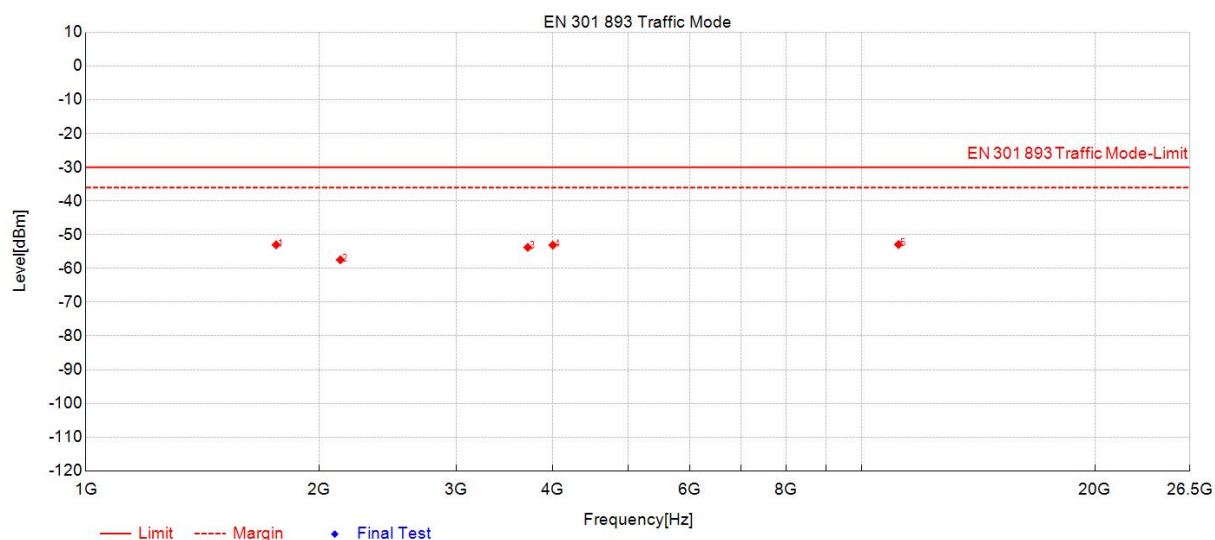
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1748.5	-50.60	-43.70	6.90	-30.00	13.70	Horizon	RMS	PASS
2	2129.5	-70.19	-57.90	12.29	-30.00	27.90	Horizon	RMS	PASS
3	2415.5	-68.18	-55.78	12.40	-30.00	25.78	Horizon	RMS	PASS
4	3500	-69.95	-54.48	15.47	-30.00	24.48	Horizon	RMS	PASS
5	11424.3	-72.52	-53.86	18.66	-30.00	23.86	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	TX Mode 11AX160MIMO_5570	Polarization	Horizontal
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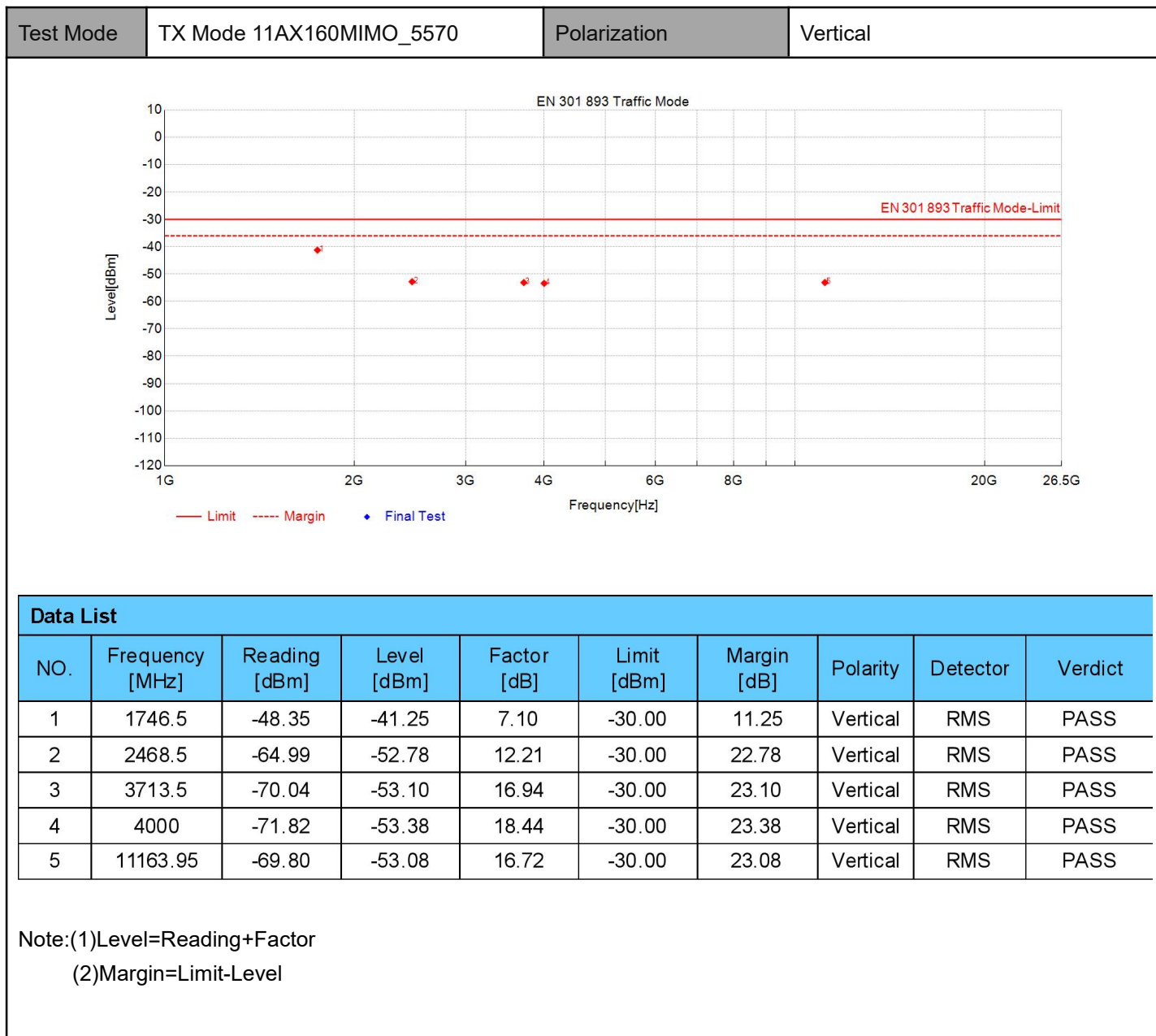


Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1759	-59.92	-52.99	6.93	-30.00	22.99	Horizon	RMS	PASS
2	2128.5	-69.69	-57.42	12.27	-30.00	27.42	Horizon	RMS	PASS
3	3713.5	-70.55	-53.74	16.81	-30.00	23.74	Horizon	RMS	PASS
4	4000	-71.60	-53.09	18.51	-30.00	23.09	Horizon	RMS	PASS
5	11166	-69.85	-52.88	16.97	-30.00	22.88	Horizon	RMS	PASS

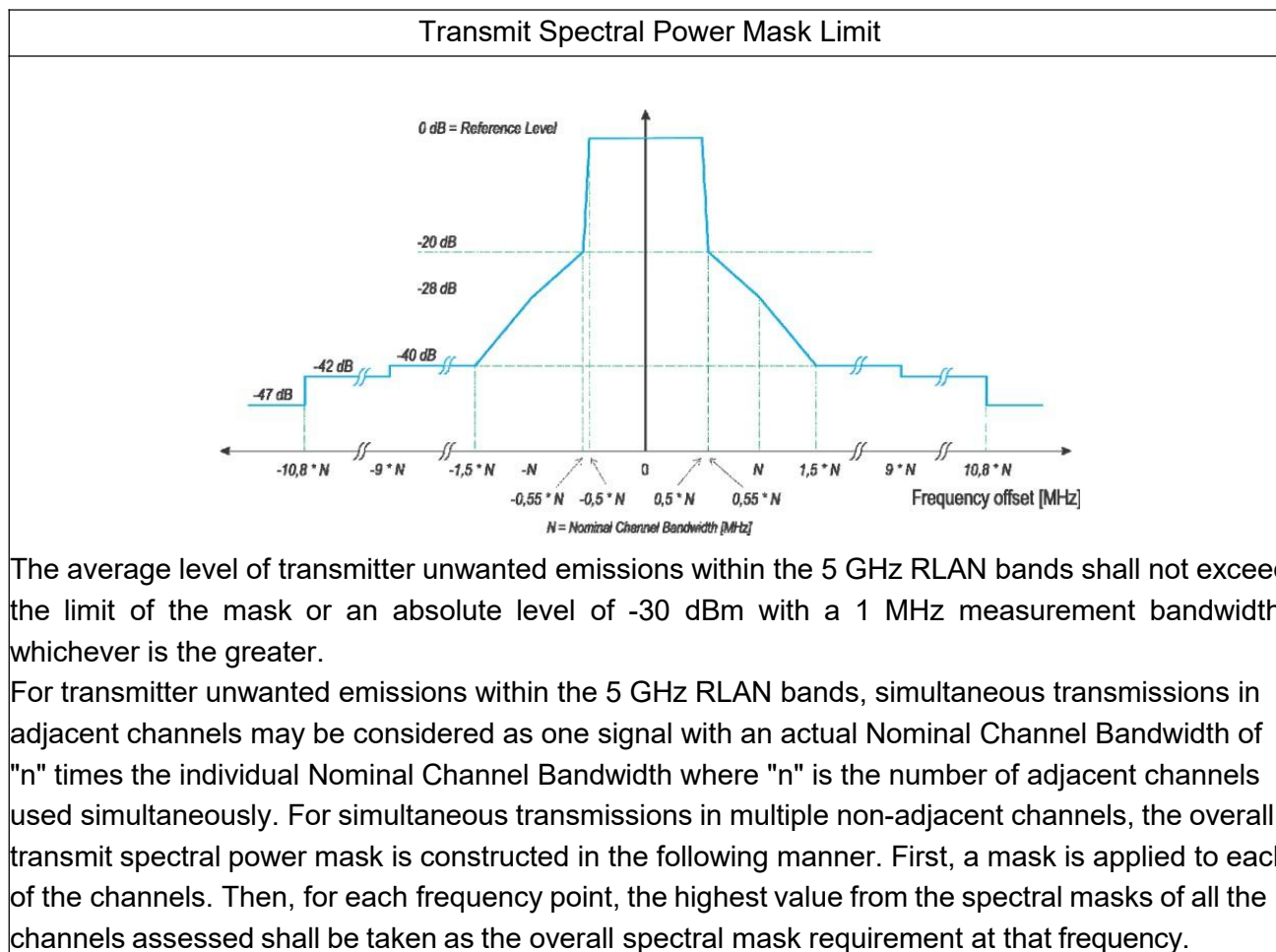
Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



3.6 Transmitter Unwanted Emissions Within The 5 GHz RLAN Bands (Refer to clause 4.2.4)

3.6.1 Limit:



3.6.2 Test Peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Record PC	Lenovo	M4000q	N/A

3.6.3 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ● : Test ○ : No Test	

a) The EUT shall be connected to spectrum analyzer and the spectrum analyzer settings as following:

Spectrum Parameter	Setting
RBW	1 MHz
VBW	30 KHz

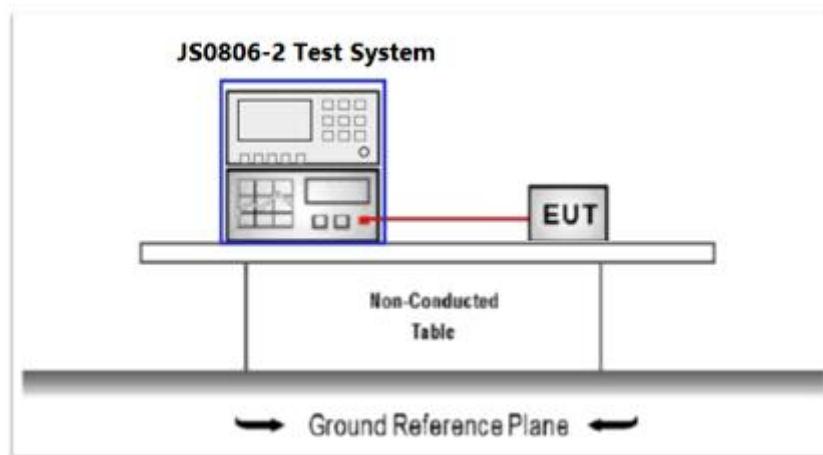
Detector mode	RMS
Trace mode:	Max Hold
Sweep Time	≥ 1 min
Centre Frequency	Centre frequency of the channel being tested
Span	2 times the Nominal Channel Bandwidth

b) Use the marker to find the highest average power level of the power envelope of the EUT. This level shall be used as the reference level for the relative measurements.

c) Determination of the relative average power levels: Adjust the frequency range of the spectrum analyzer to allow the measurement to be performed within the sub-bands 5150 MHz to 5350 MHz and 5470 MHz to 5725 MHz. No other parameter of the spectrum analyzer should be changed.

d) Compare the relative power envelope of the EUT with the limits defined in clause 4.2.4.2.2 of ETSI EN 301 893.

3.6.4 Test Configuration



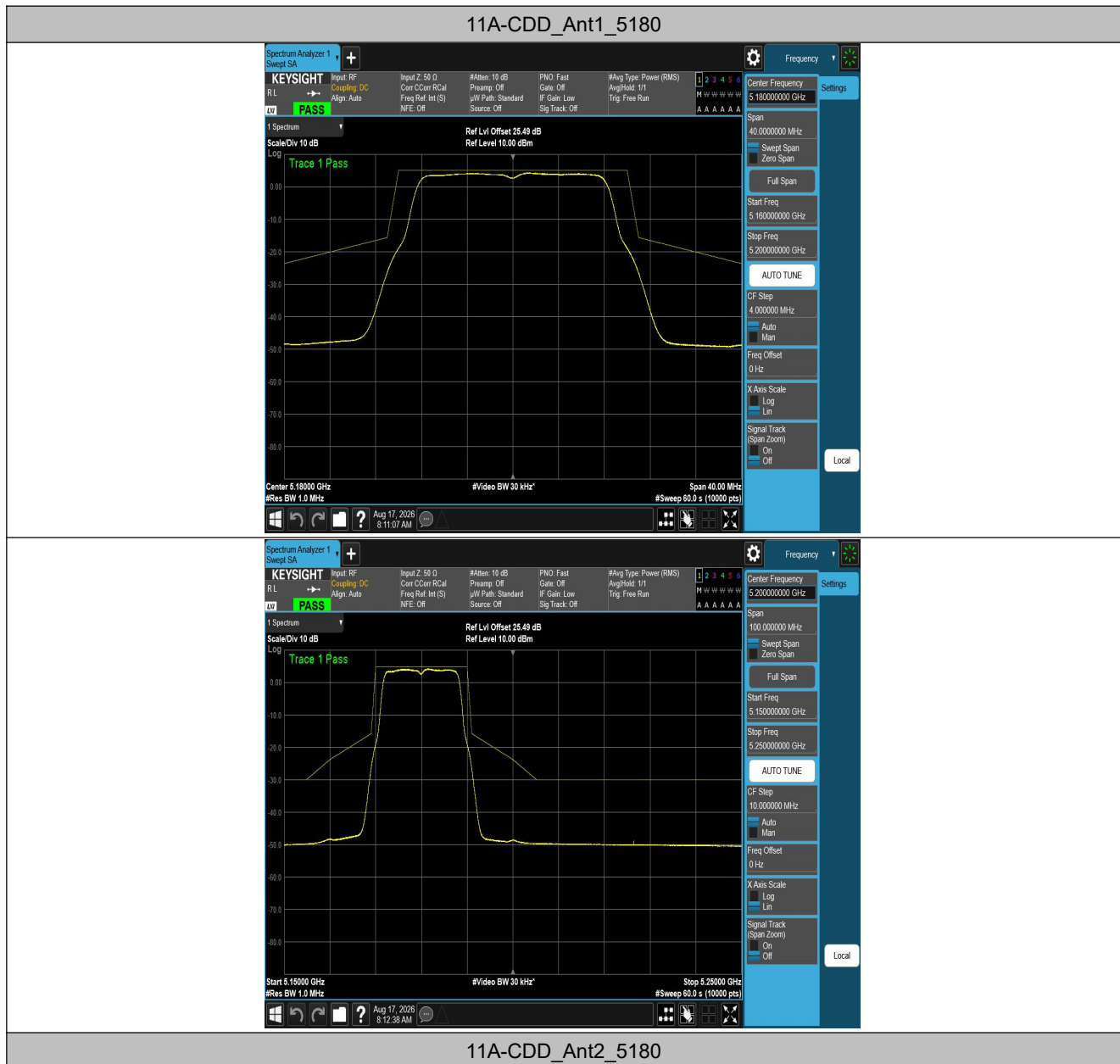
3.6.5 Test Result of Transmitter Unwanted Emissions Within The 5 GHz RLAN Bands

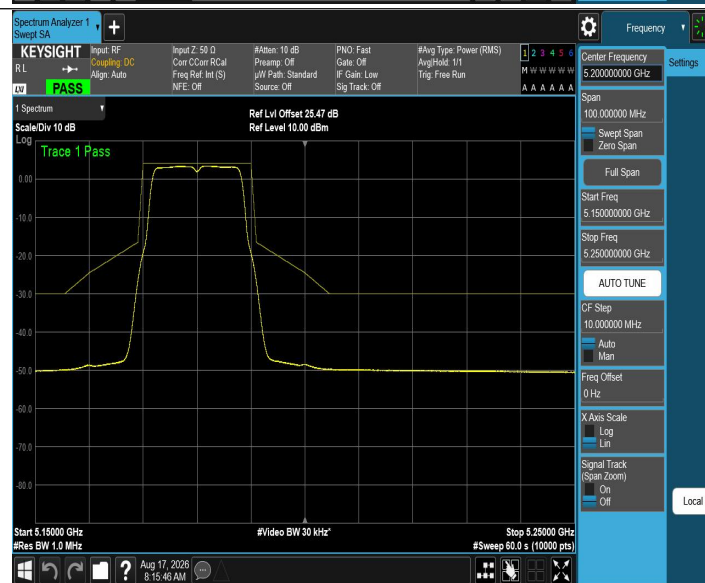
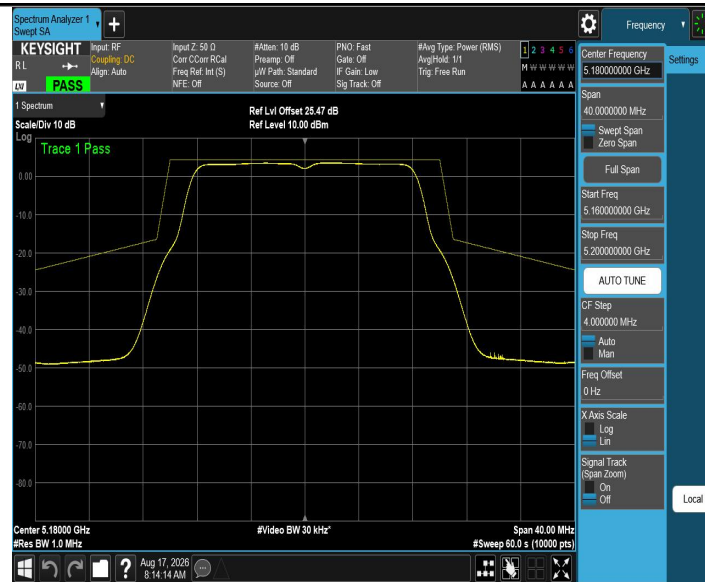
3.6.5.1 Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm]	Limit[dBm]	Verdict
11A-CDD	Ant1	5180	See test graph	See test graph	PASS
	Ant2	5180	See test graph	See test graph	PASS
	Ant1	5320	See test graph	See test graph	PASS
	Ant2	5320	See test graph	See test graph	PASS
	Ant1	5500	See test graph	See test graph	PASS
	Ant2	5500	See test graph	See test graph	PASS
	Ant1	5700	See test graph	See test graph	PASS
	Ant2	5700	See test graph	See test graph	PASS
11N20MIMO	Ant1	5180	See test graph	See test graph	PASS
	Ant2	5180	See test graph	See test graph	PASS
	Ant1	5320	See test graph	See test graph	PASS
	Ant2	5320	See test graph	See test graph	PASS
	Ant1	5500	See test graph	See test graph	PASS
	Ant2	5500	See test graph	See test graph	PASS
	Ant1	5700	See test graph	See test graph	PASS
	Ant2	5700	See test graph	See test graph	PASS
11N40MIMO	Ant1	5190	See test graph	See test graph	PASS
	Ant2	5190	See test graph	See test graph	PASS
	Ant1	5310	See test graph	See test graph	PASS
	Ant2	5310	See test graph	See test graph	PASS
	Ant1	5510	See test graph	See test graph	PASS
	Ant2	5510	See test graph	See test graph	PASS
	Ant1	5670	See test graph	See test graph	PASS
	Ant2	5670	See test graph	See test graph	PASS
11AC20MIMO	Ant1	5180	See test graph	See test graph	PASS
	Ant2	5180	See test graph	See test graph	PASS
	Ant1	5320	See test graph	See test graph	PASS
	Ant2	5320	See test graph	See test graph	PASS
	Ant1	5500	See test graph	See test graph	PASS
	Ant2	5500	See test graph	See test graph	PASS
	Ant1	5700	See test graph	See test graph	PASS
	Ant2	5700	See test graph	See test graph	PASS
11AC40MIMO	Ant1	5190	See test graph	See test graph	PASS
	Ant2	5190	See test graph	See test graph	PASS
	Ant1	5310	See test graph	See test graph	PASS
	Ant2	5310	See test graph	See test graph	PASS
	Ant1	5510	See test graph	See test graph	PASS
	Ant2	5510	See test graph	See test graph	PASS
	Ant1	5670	See test graph	See test graph	PASS
	Ant2	5670	See test graph	See test graph	PASS

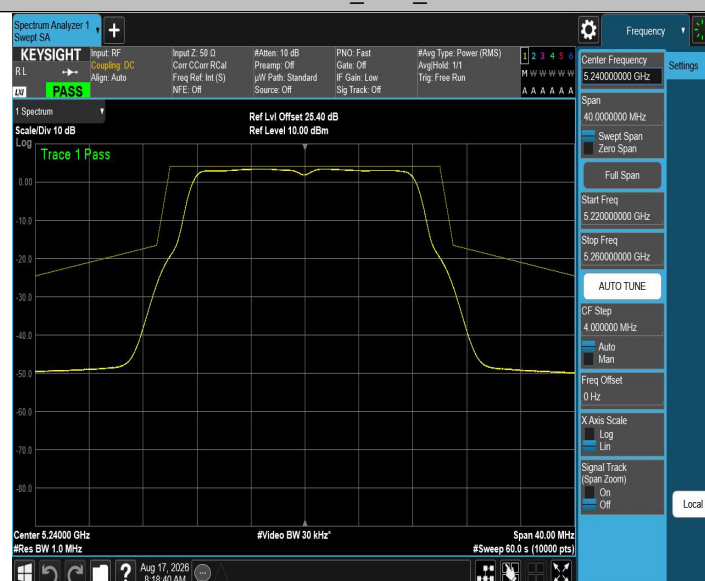
11AC80MIMO	Ant1	5210	See test graph	See test graph	PASS
	Ant2	5210	See test graph	See test graph	PASS
	Ant1	5290	See test graph	See test graph	PASS
	Ant2	5290	See test graph	See test graph	PASS
	Ant1	5530	See test graph	See test graph	PASS
	Ant2	5530	See test graph	See test graph	PASS
	Ant1	5610	See test graph	See test graph	PASS
	Ant2	5610	See test graph	See test graph	PASS
11AC160MIMO	Ant1	5250	See test graph	See test graph	PASS
	Ant2	5250	See test graph	See test graph	PASS
	Ant1	5570	See test graph	See test graph	PASS
	Ant2	5570	See test graph	See test graph	PASS
11AX20MIMO	Ant1	5180	See test graph	See test graph	PASS
	Ant2	5180	See test graph	See test graph	PASS
	Ant1	5320	See test graph	See test graph	PASS
	Ant2	5320	See test graph	See test graph	PASS
	Ant1	5500	See test graph	See test graph	PASS
	Ant2	5500	See test graph	See test graph	PASS
	Ant1	5700	See test graph	See test graph	PASS
	Ant2	5700	See test graph	See test graph	PASS
11AX40MIMO	Ant1	5190	See test graph	See test graph	PASS
	Ant2	5190	See test graph	See test graph	PASS
	Ant1	5310	See test graph	See test graph	PASS
	Ant2	5310	See test graph	See test graph	PASS
	Ant1	5510	See test graph	See test graph	PASS
	Ant2	5510	See test graph	See test graph	PASS
	Ant1	5670	See test graph	See test graph	PASS
	Ant2	5670	See test graph	See test graph	PASS
11AX80MIMO	Ant1	5210	See test graph	See test graph	PASS
	Ant2	5210	See test graph	See test graph	PASS
	Ant1	5290	See test graph	See test graph	PASS
	Ant2	5290	See test graph	See test graph	PASS
	Ant1	5530	See test graph	See test graph	PASS
	Ant2	5530	See test graph	See test graph	PASS
	Ant1	5610	See test graph	See test graph	PASS
	Ant2	5610	See test graph	See test graph	PASS
11AX160MIMO	Ant1	5250	See test graph	See test graph	PASS
	Ant2	5250	See test graph	See test graph	PASS
	Ant1	5570	See test graph	See test graph	PASS
	Ant2	5570	See test graph	See test graph	PASS

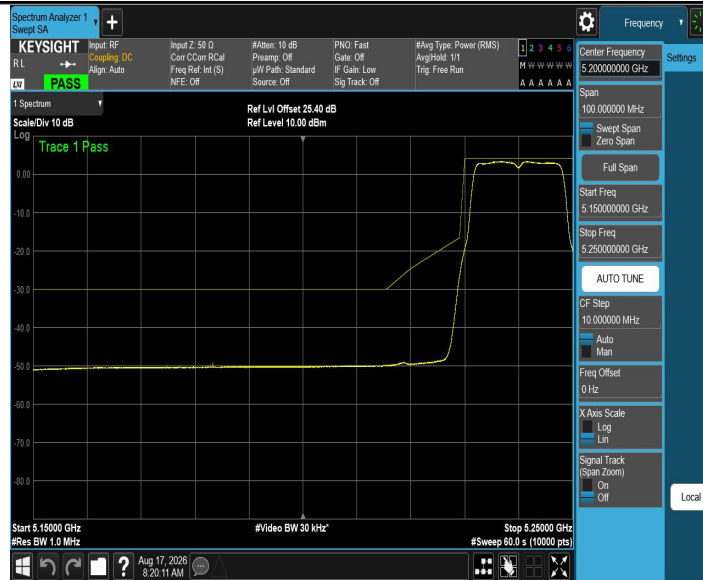
3.6.5.2 Test Graphs



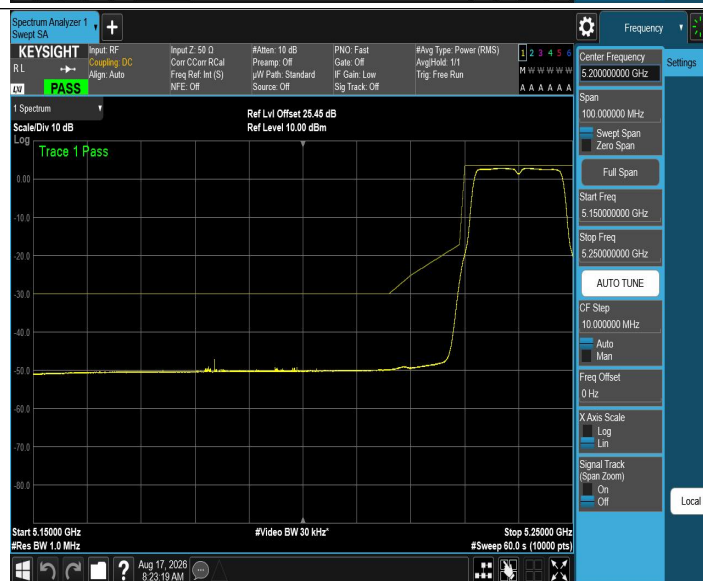
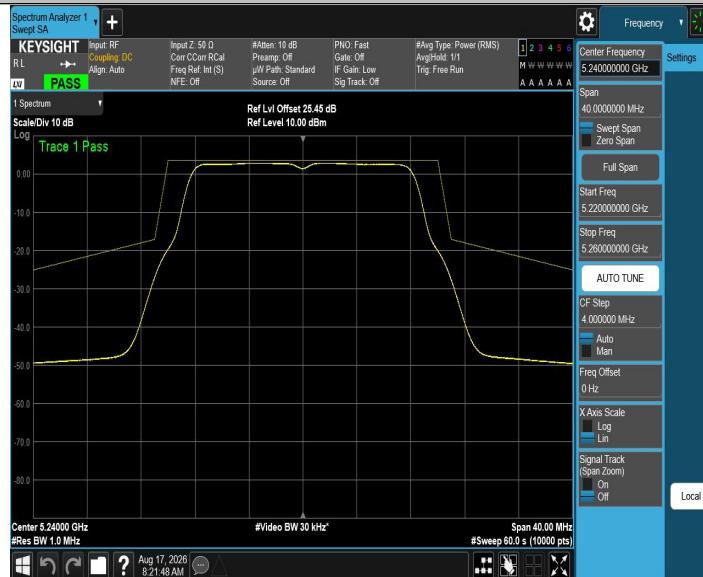


11A-CDD_Ant1_5240

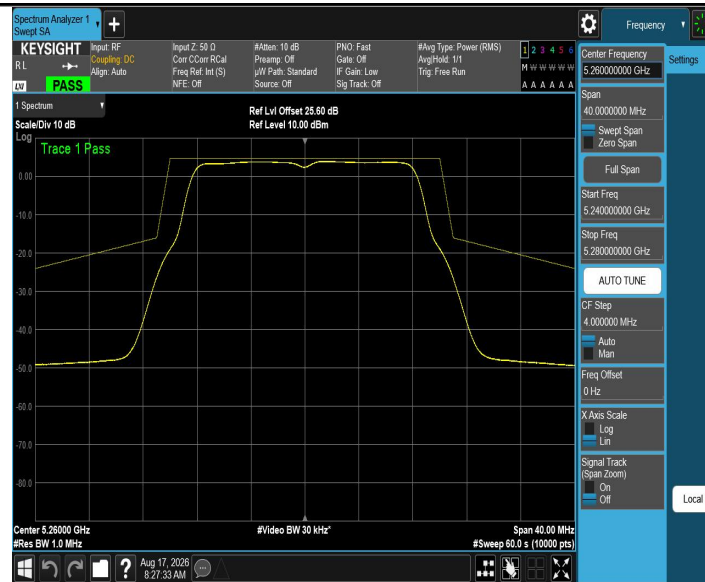




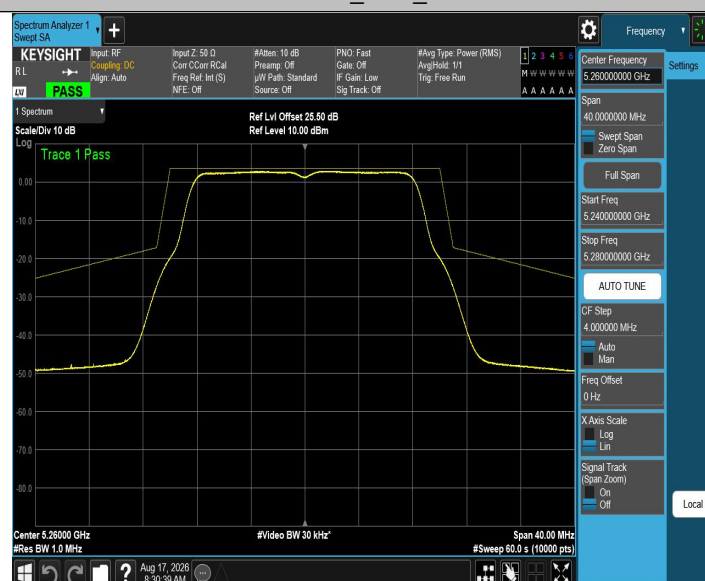
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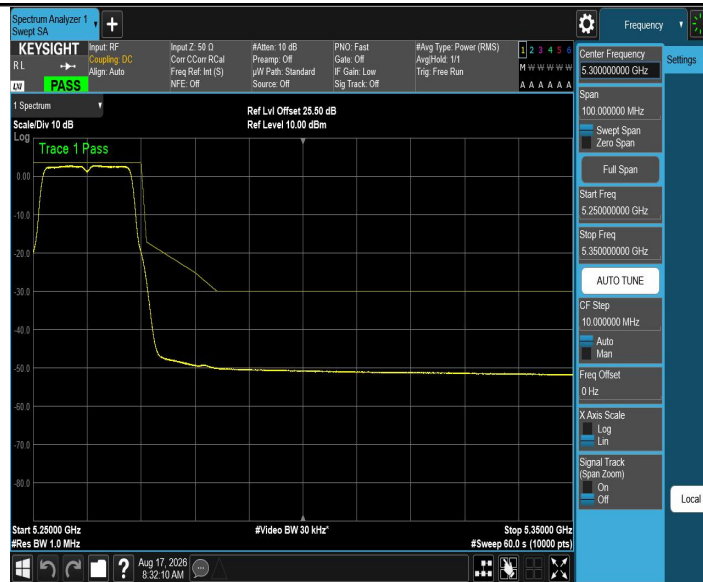


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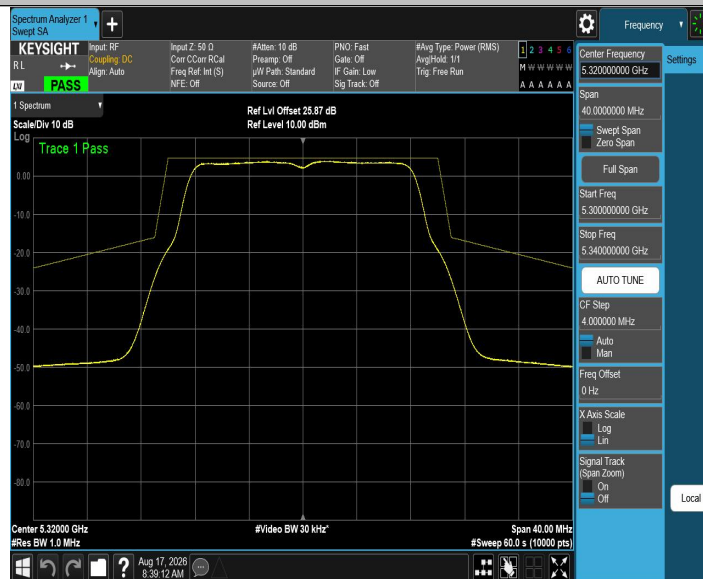


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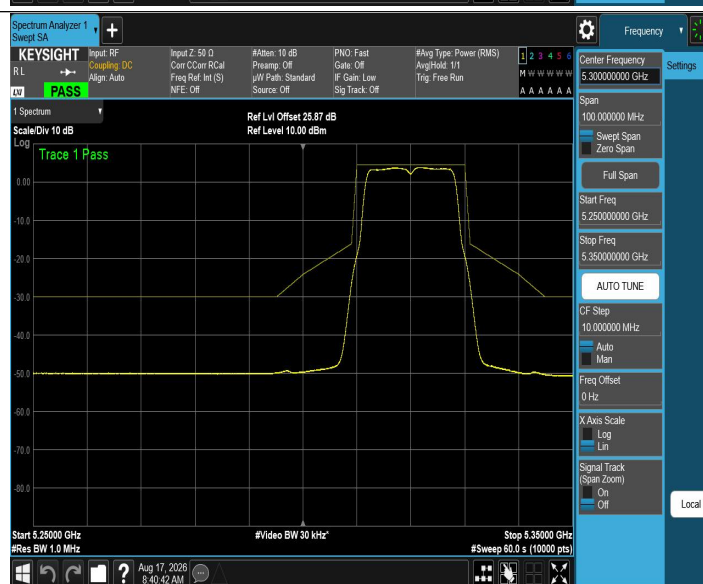


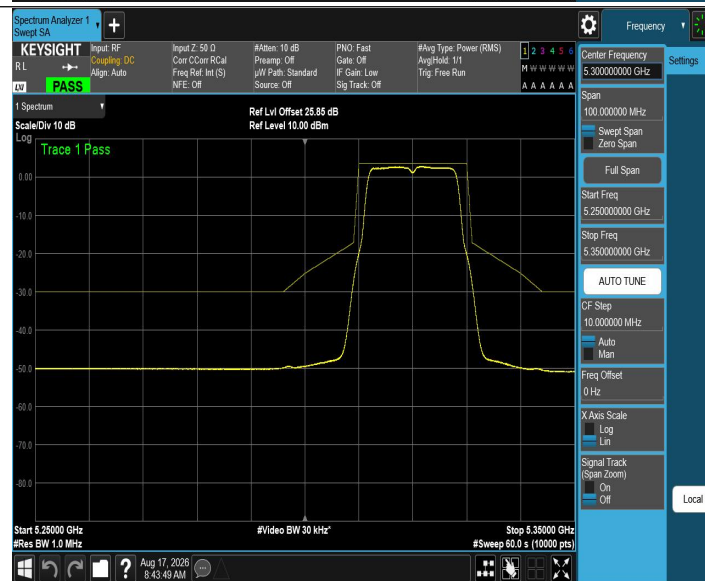
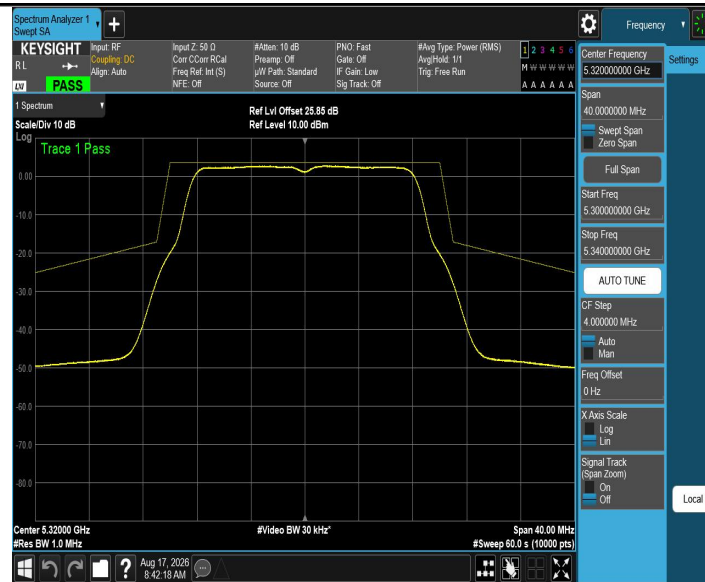


11A-CDD_Ant1_5320

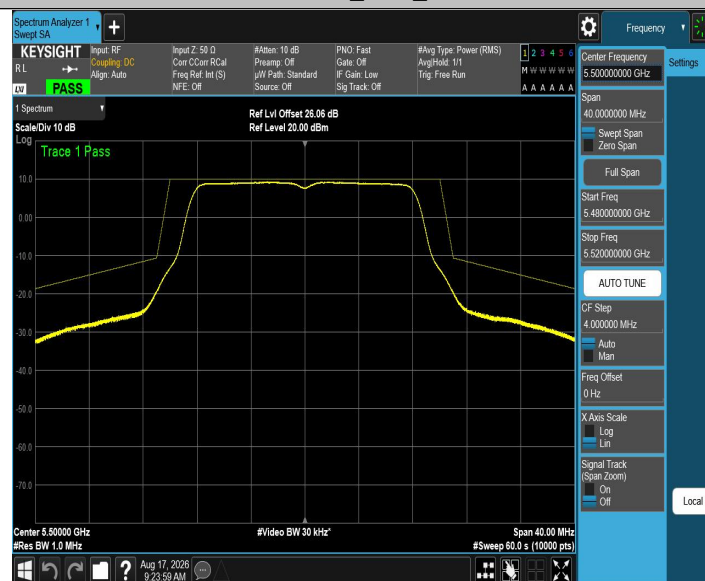


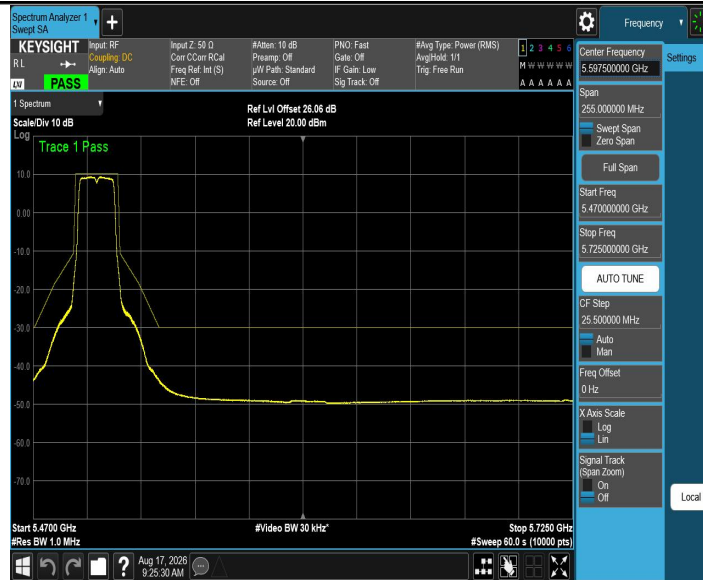
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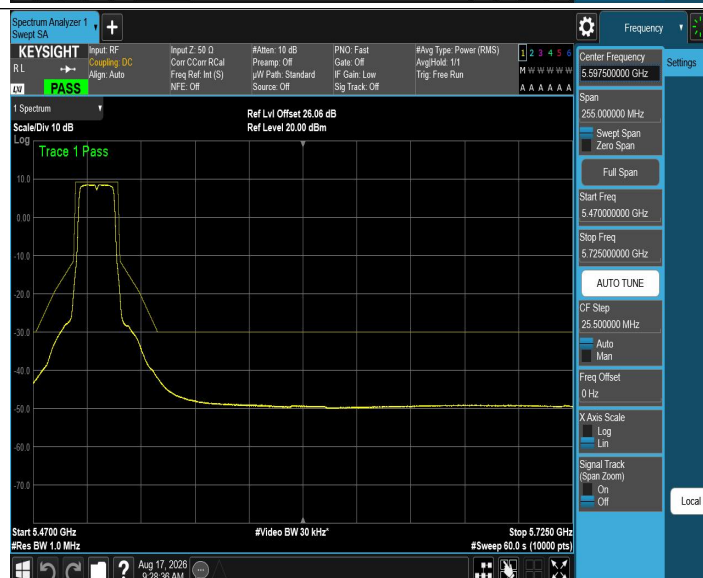
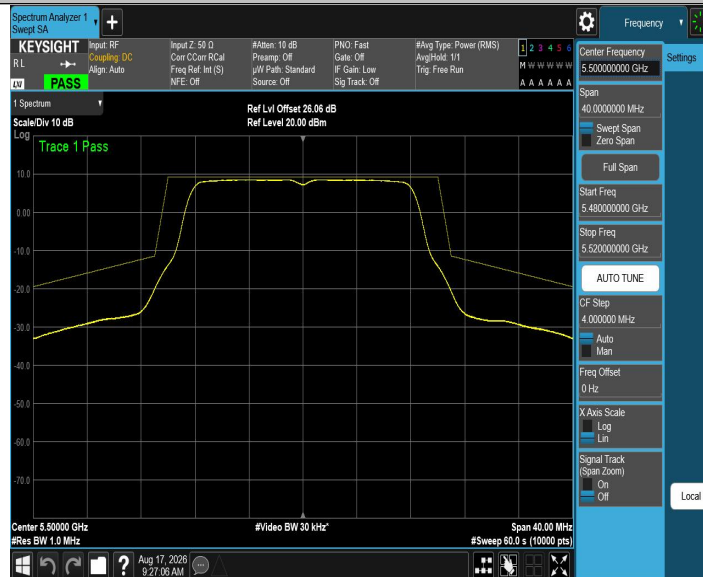


11A-CDD_Ant1_5500

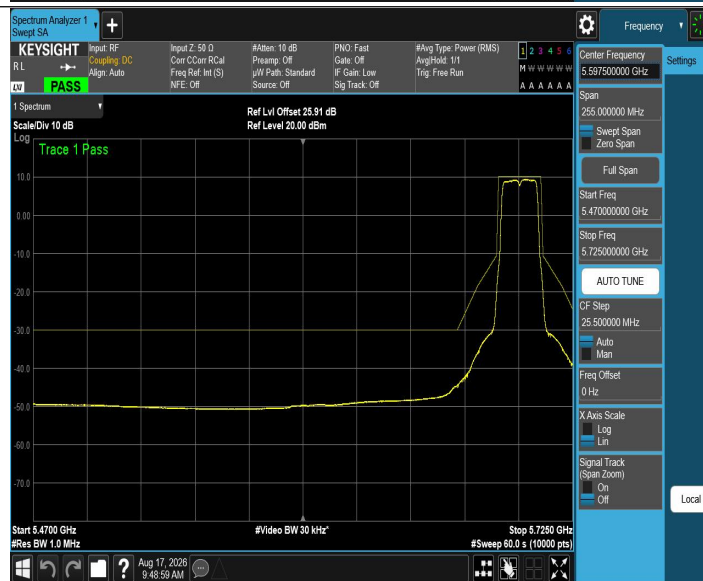
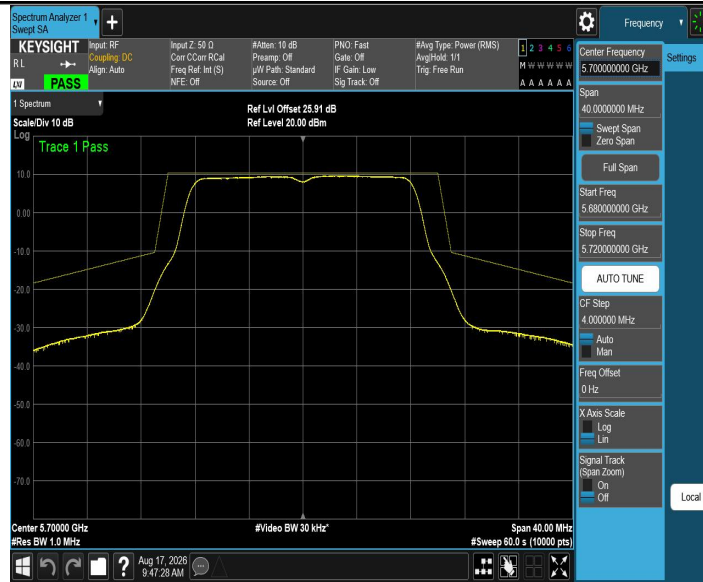




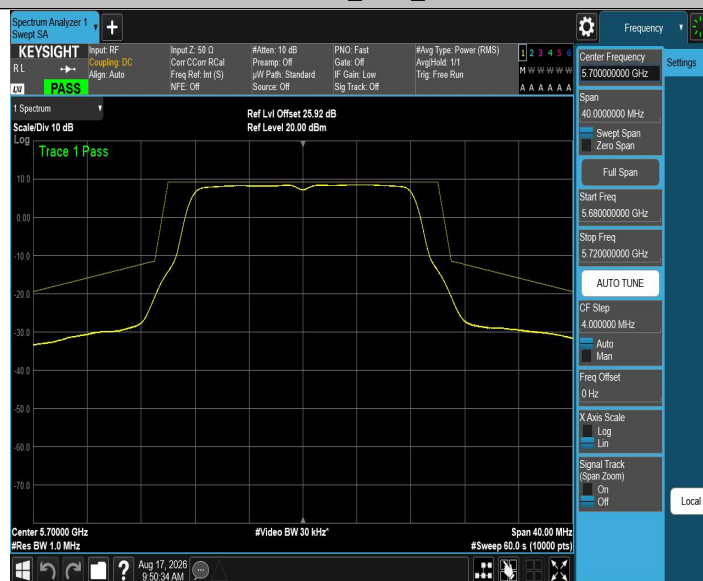
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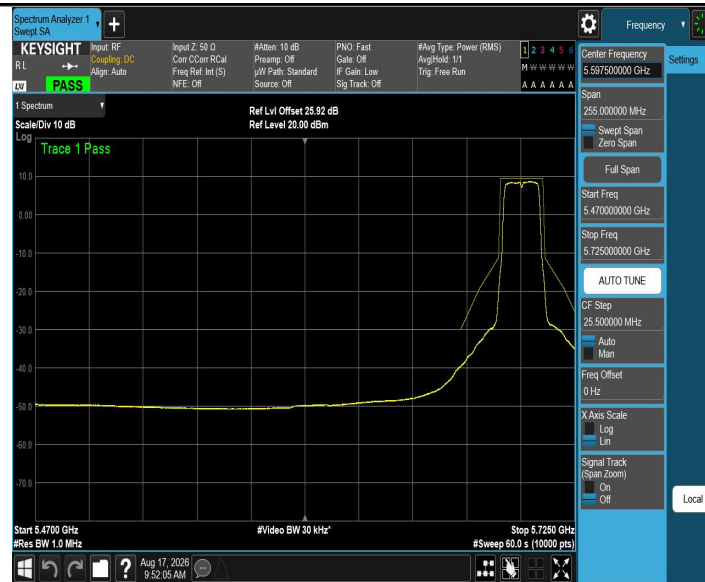


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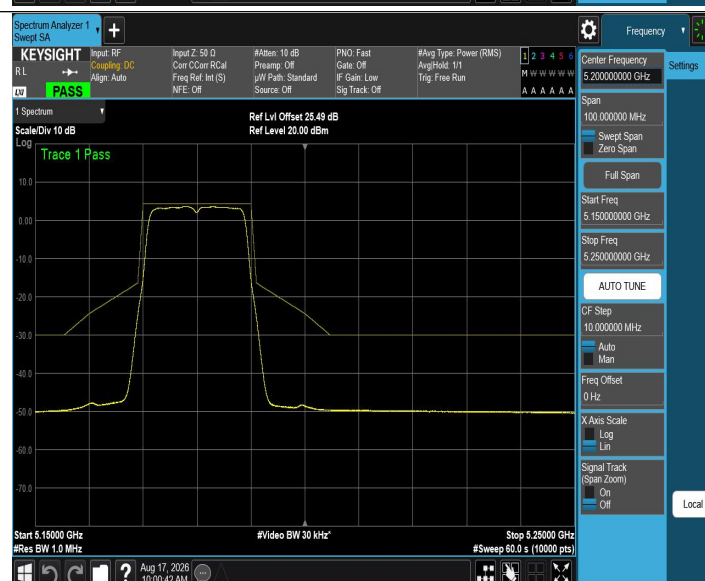
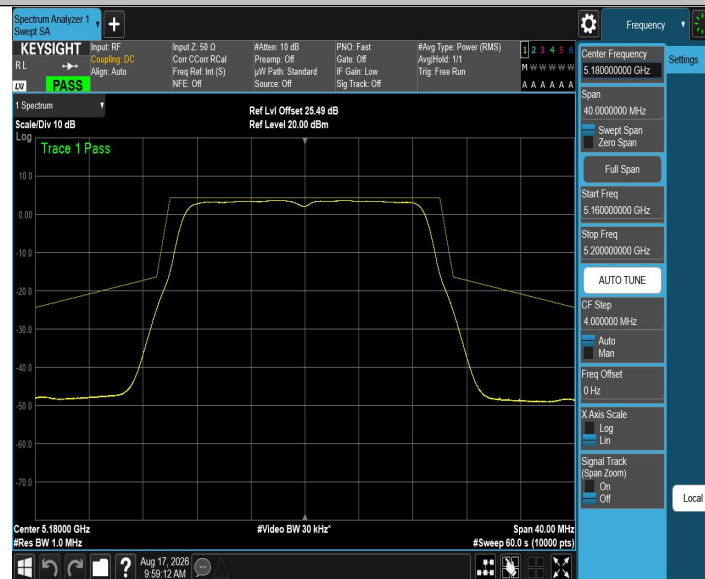


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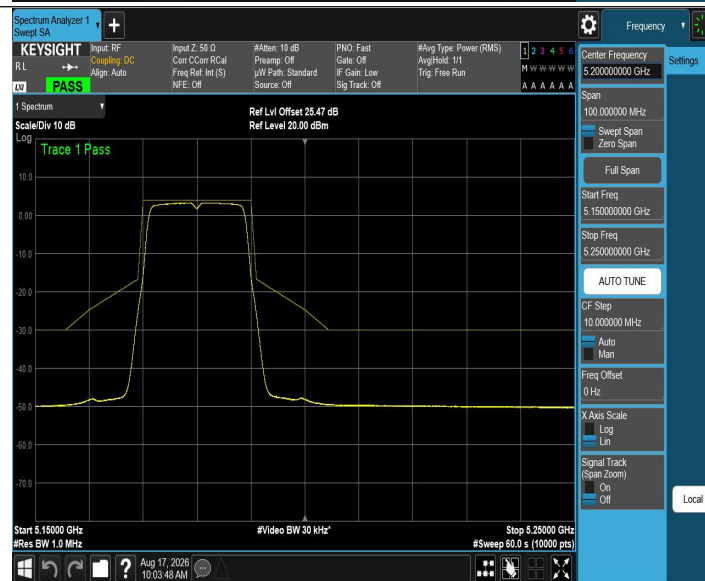
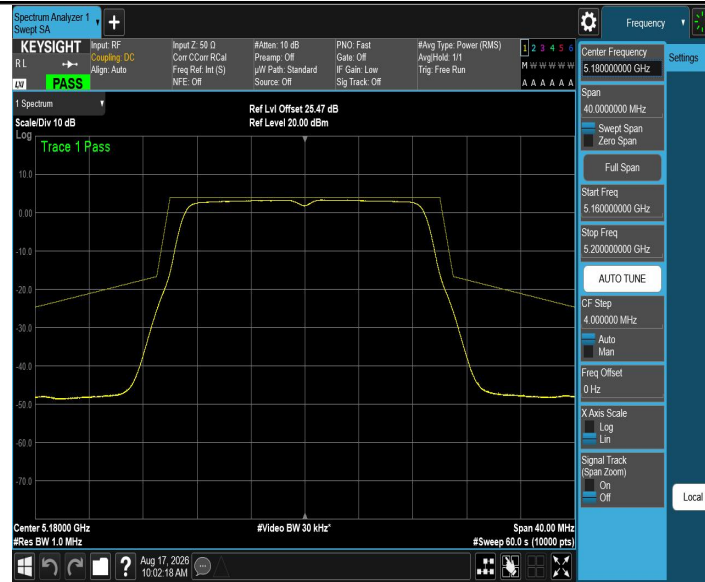




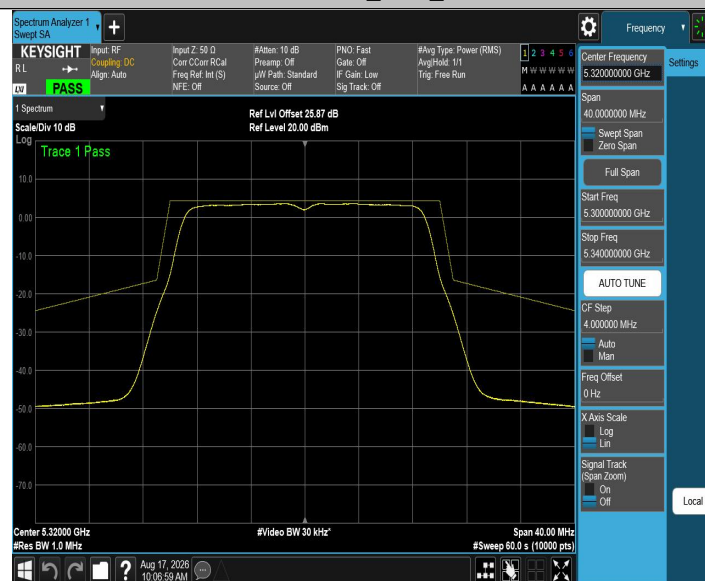
11N20MIMO_Ant1_5180

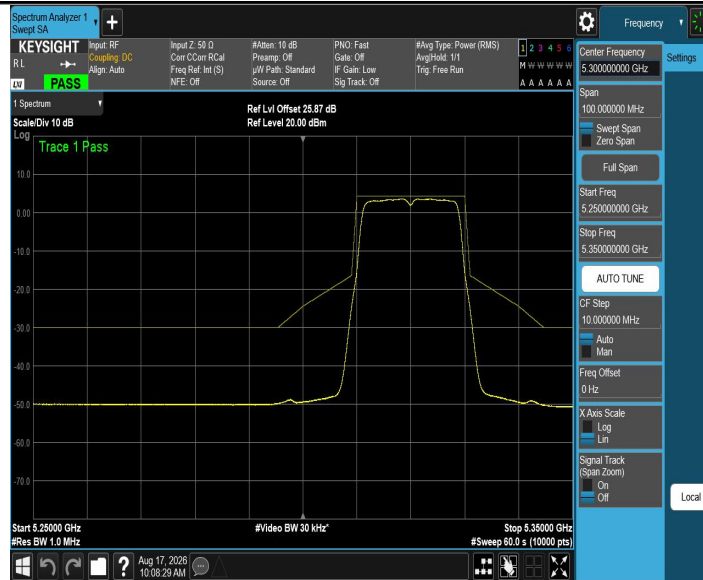


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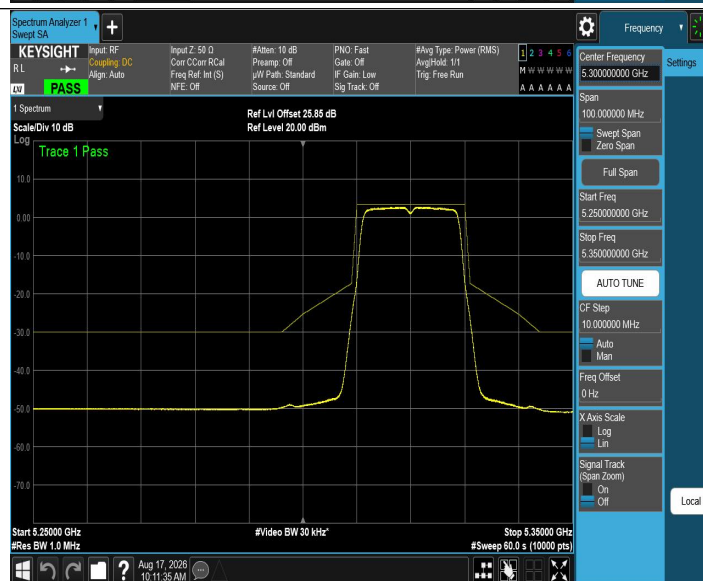
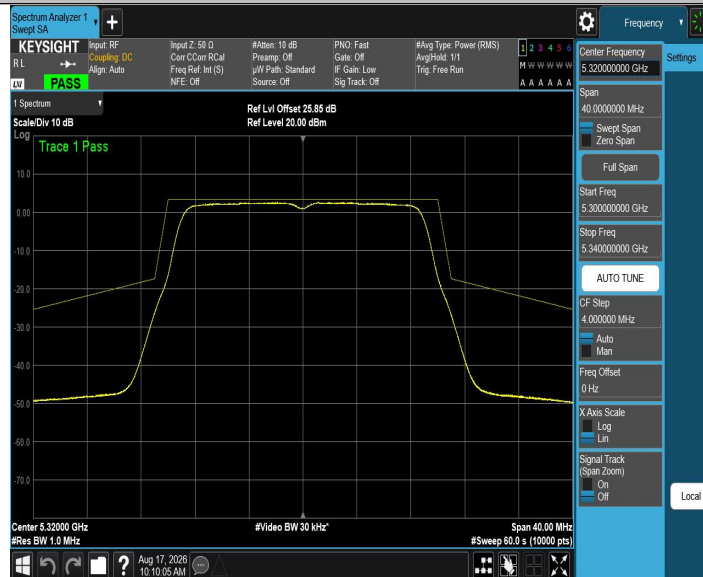


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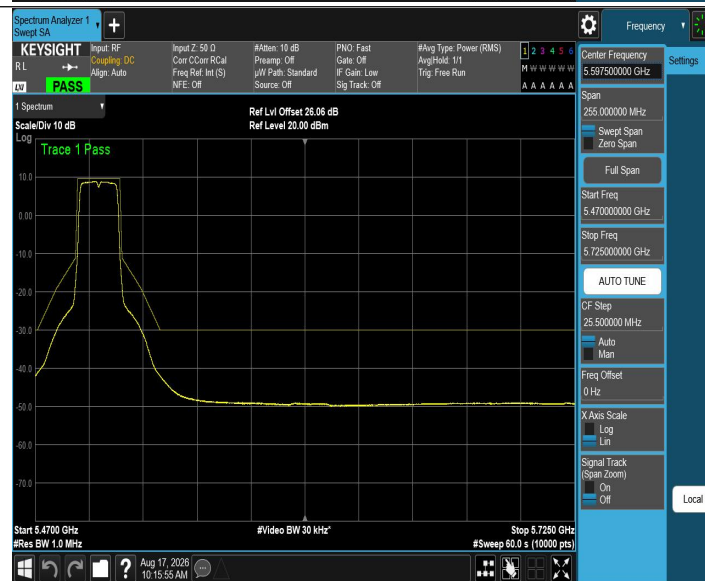
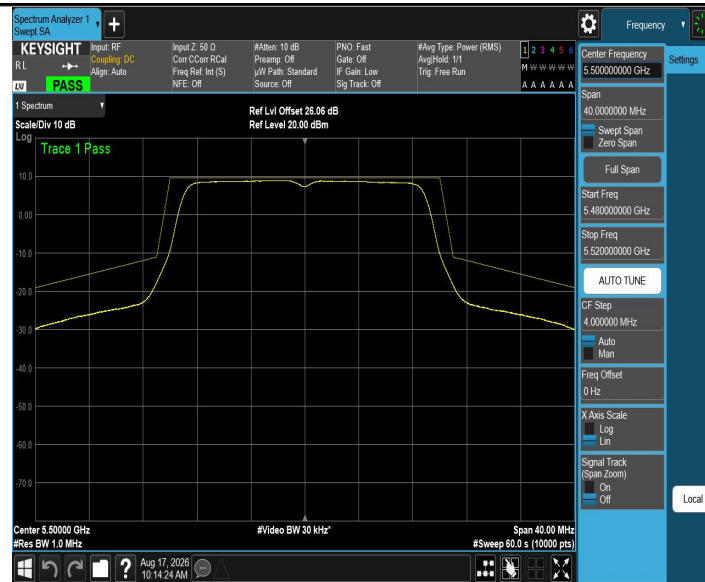




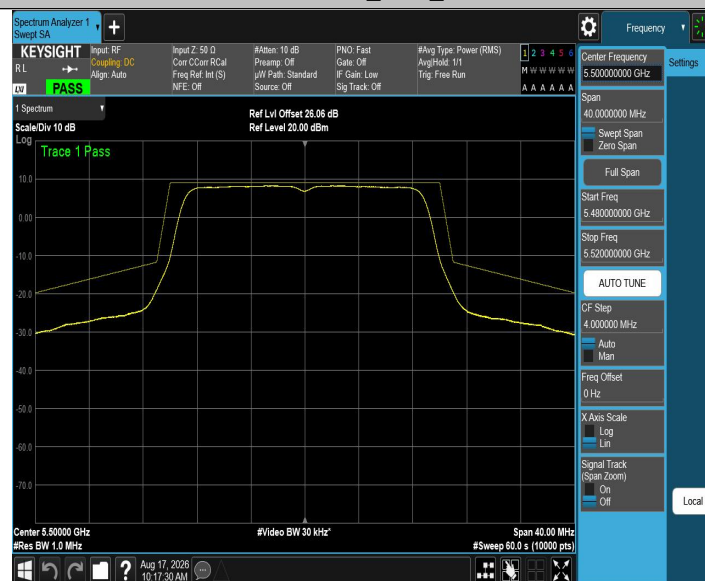
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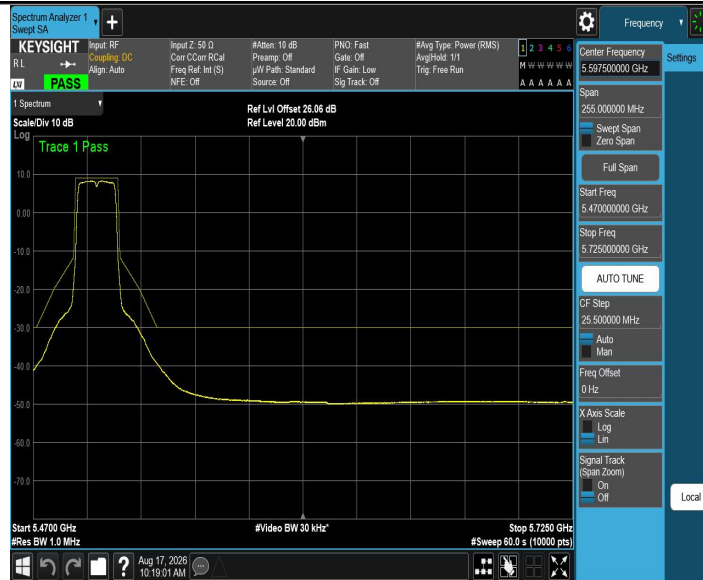


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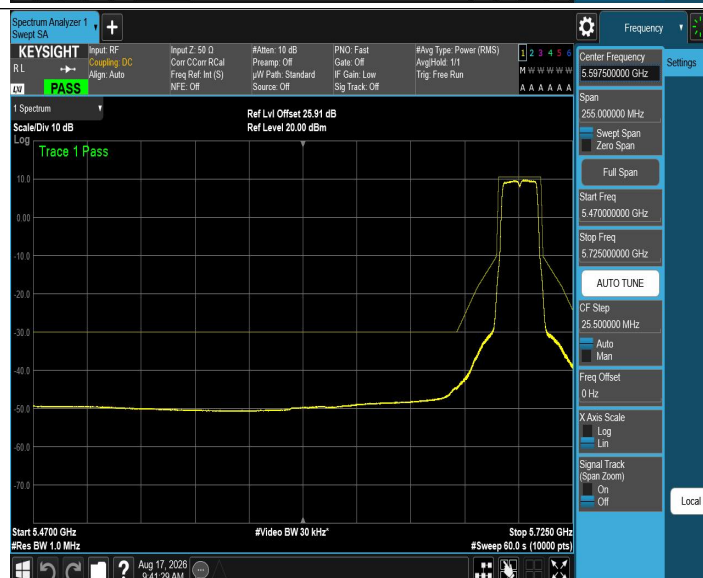
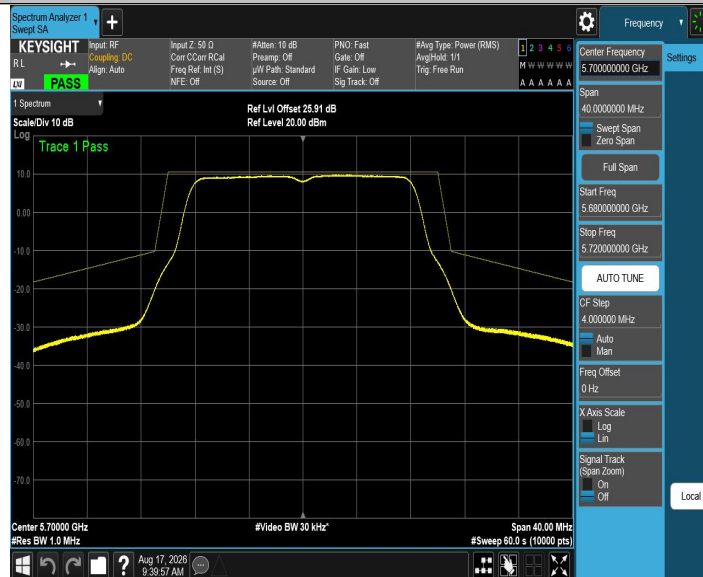


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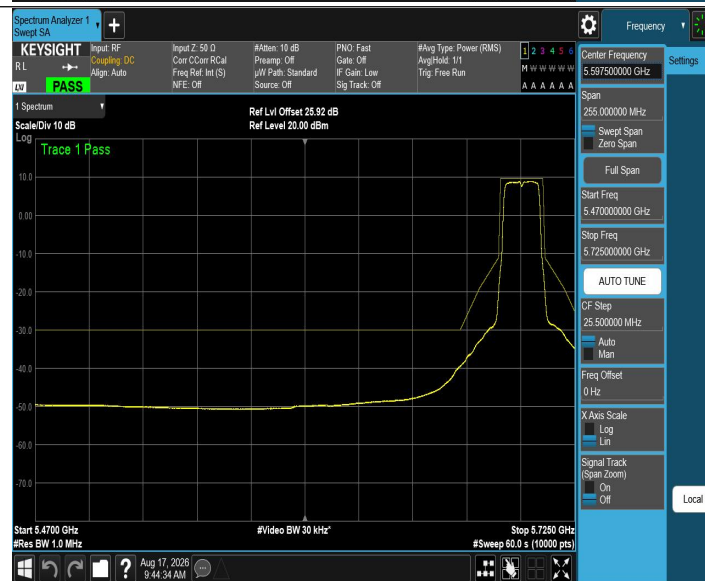
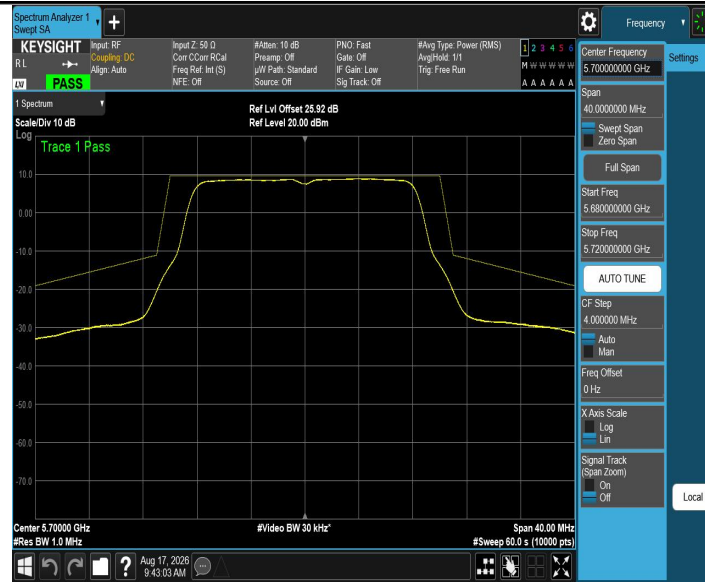




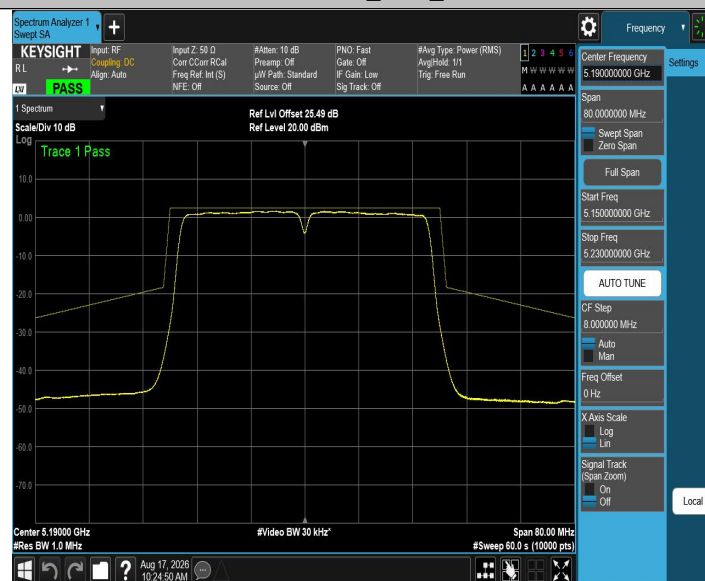
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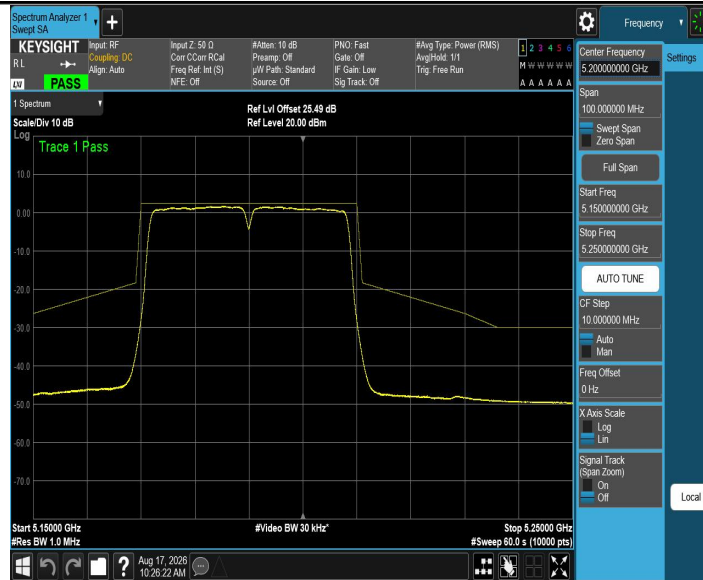


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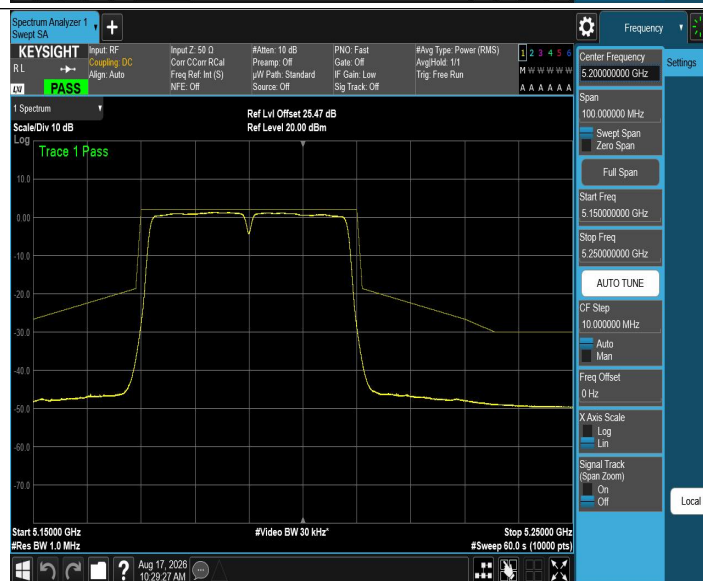
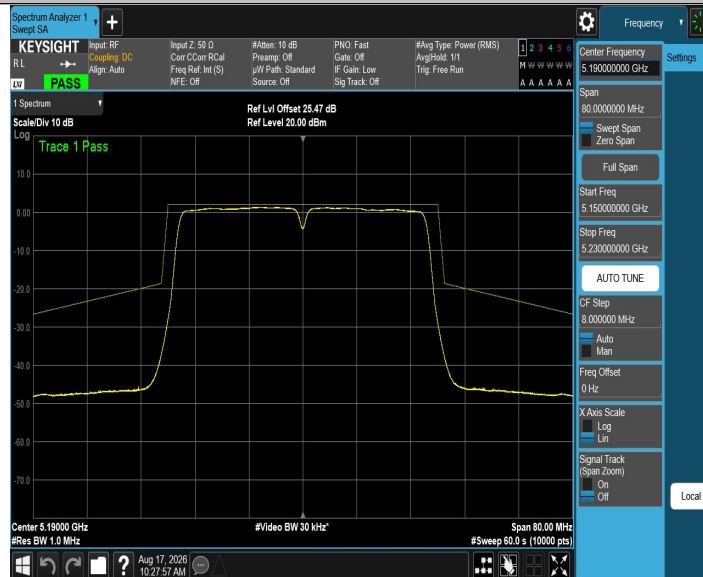


11N40MIMO_Ant1_5190

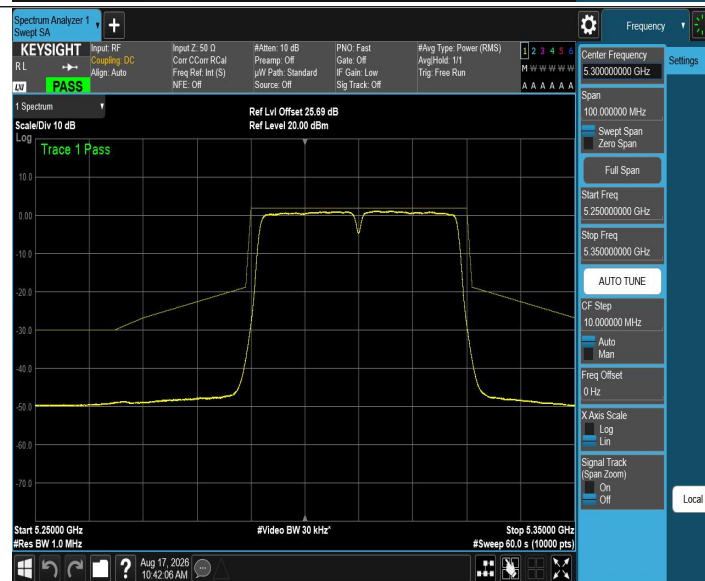
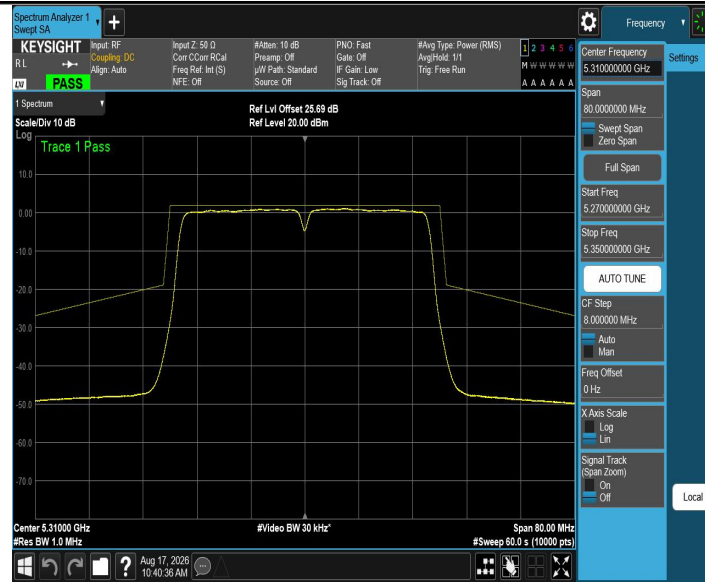




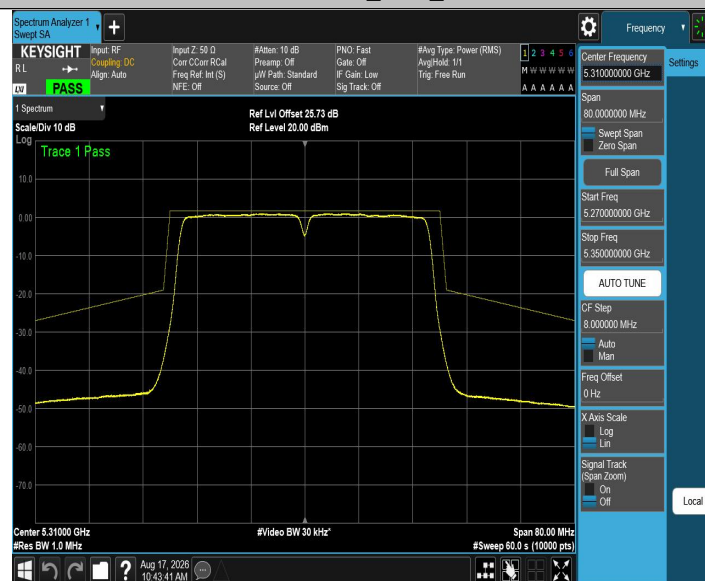
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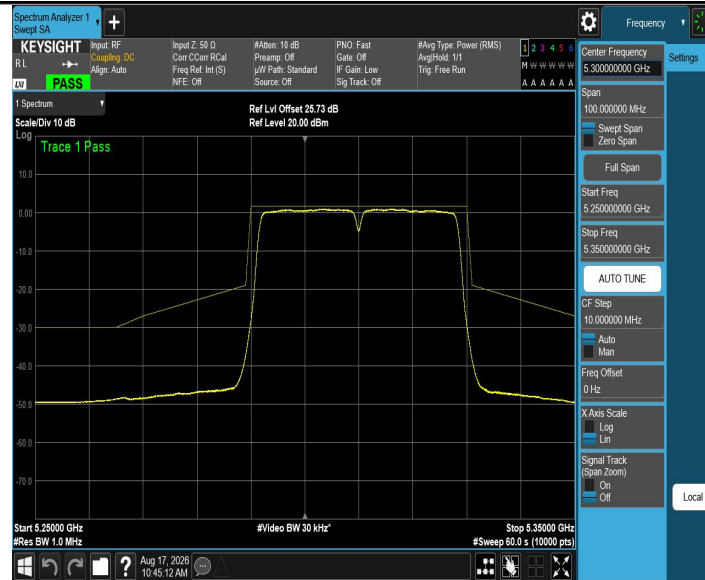


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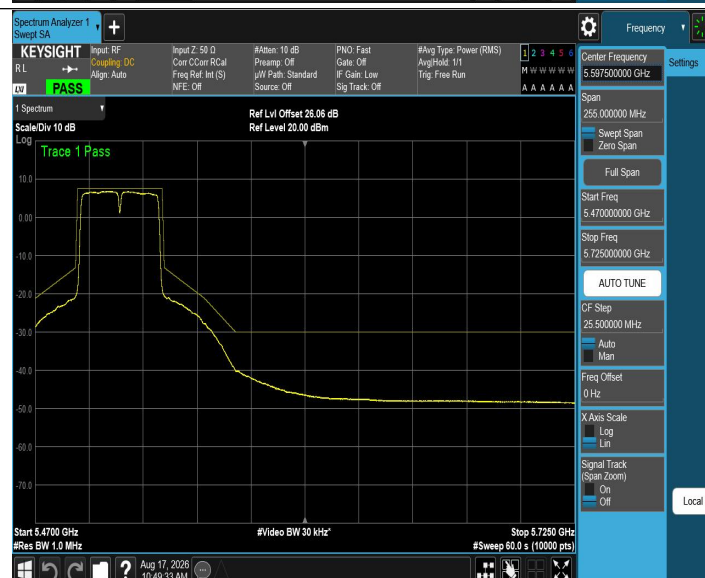
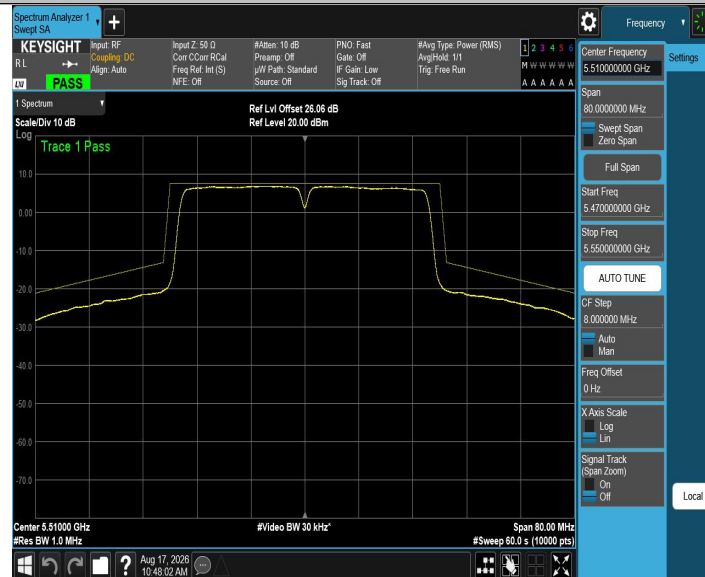


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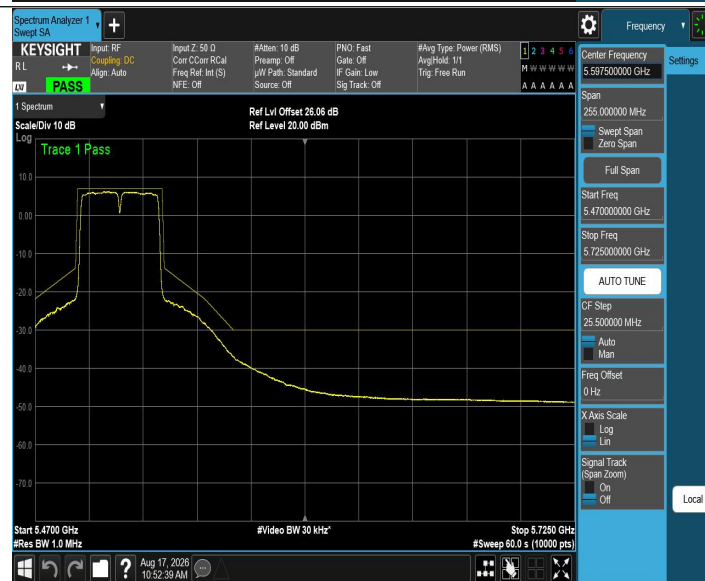
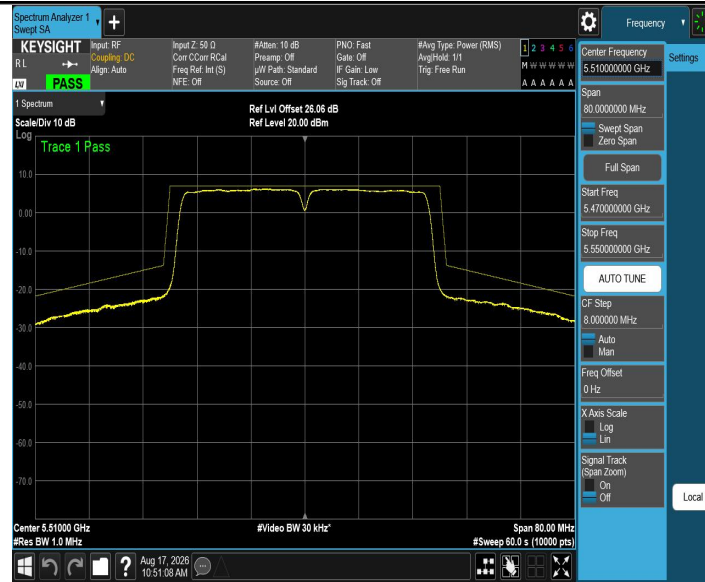




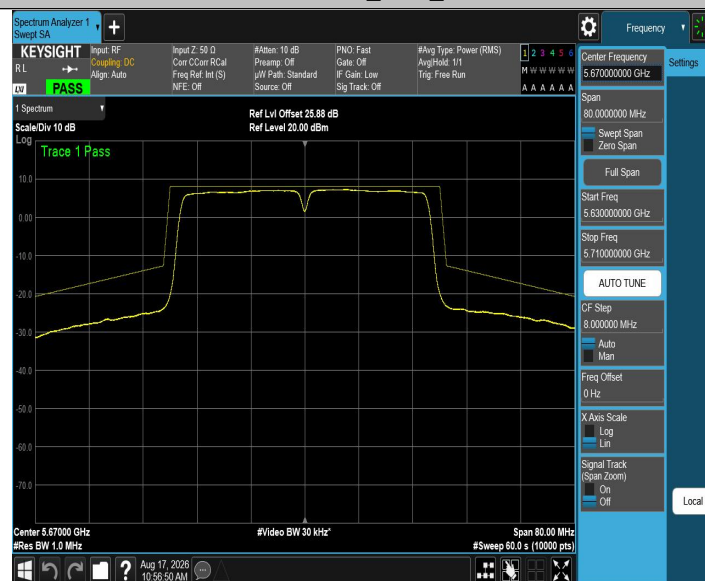
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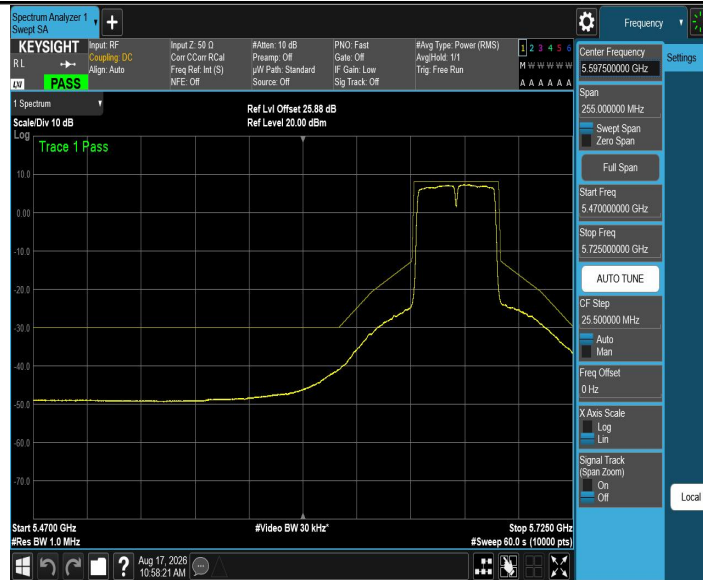


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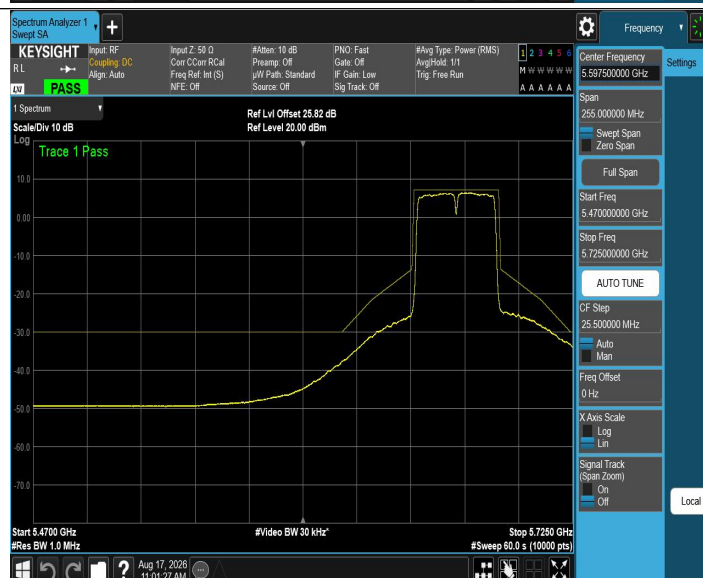
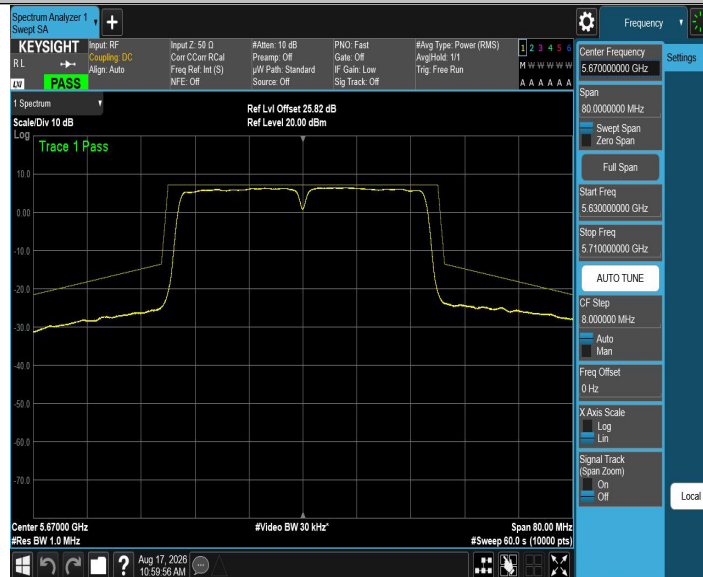


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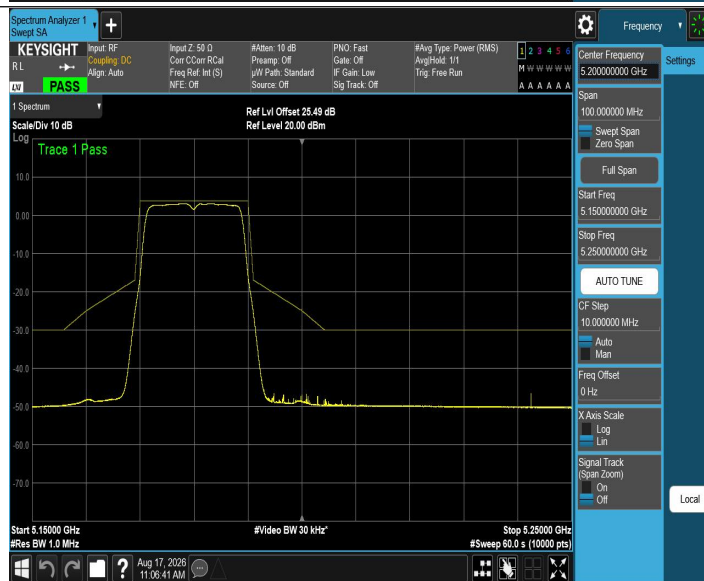
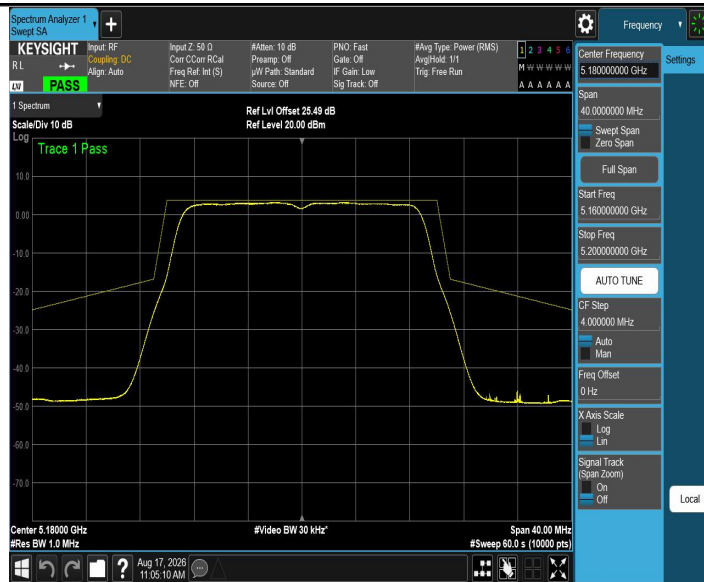




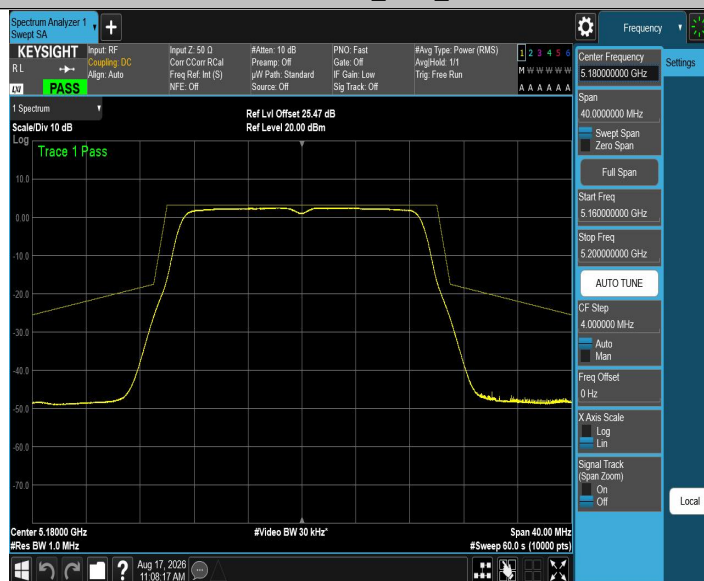
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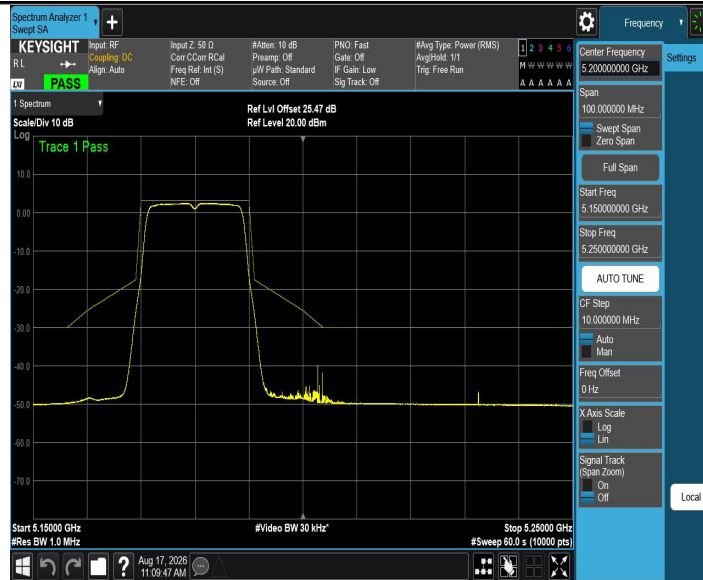


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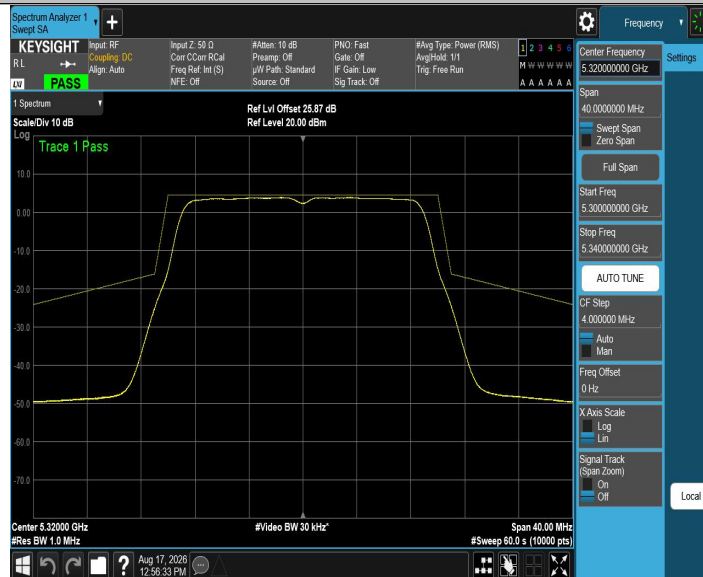


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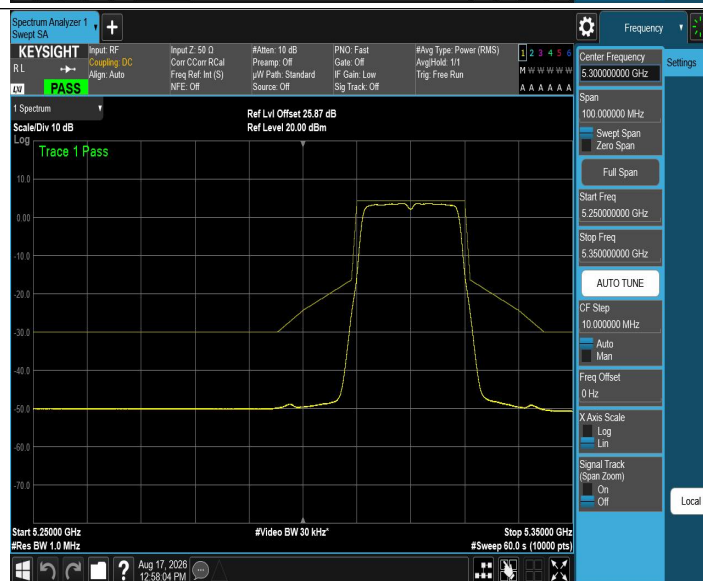


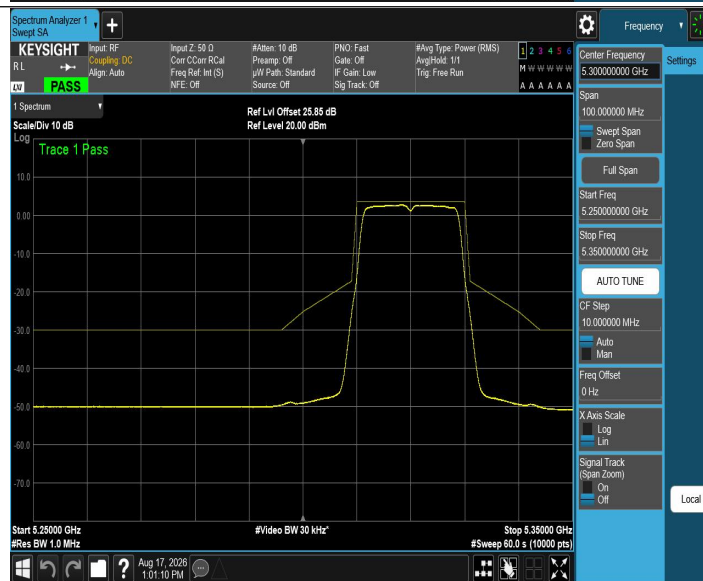
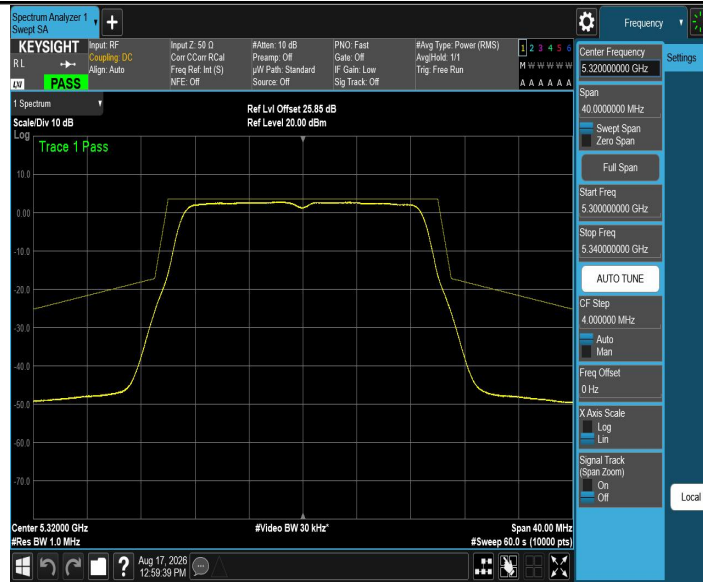


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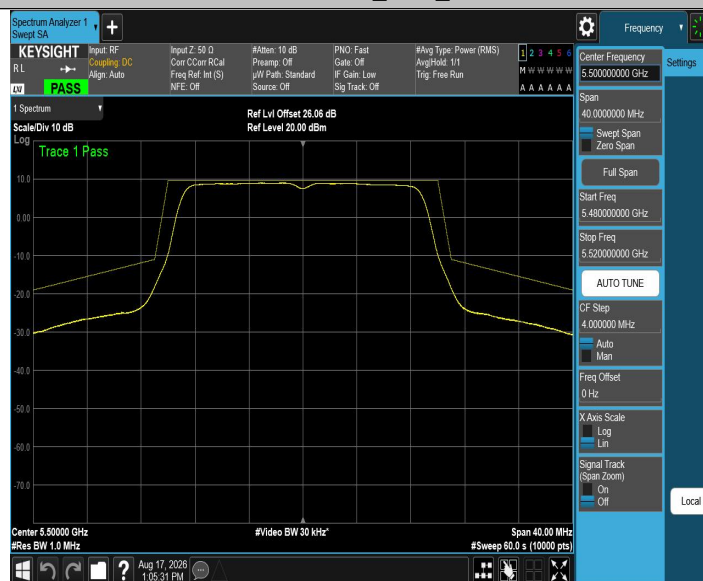


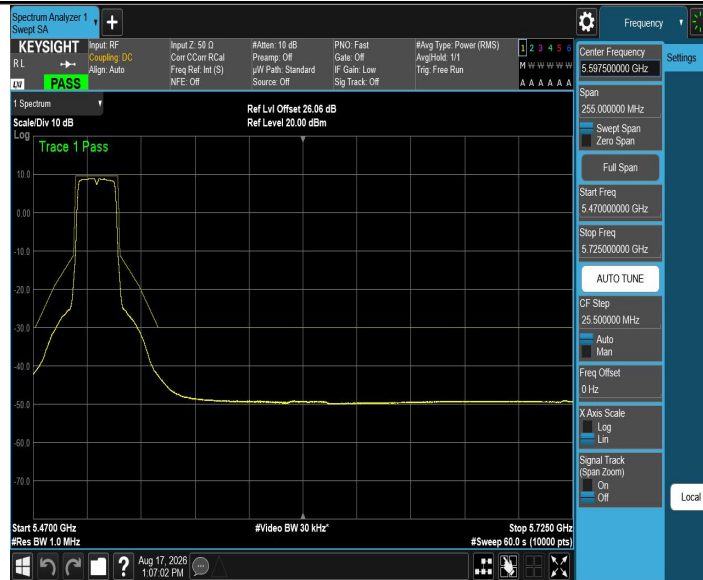
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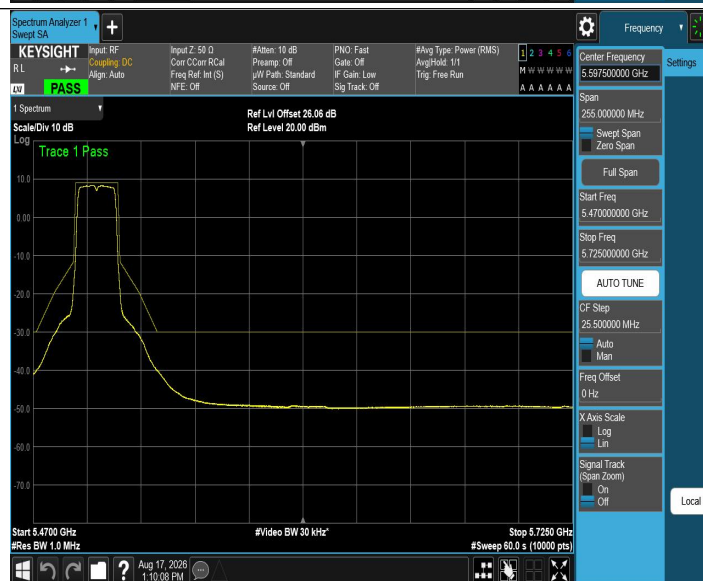
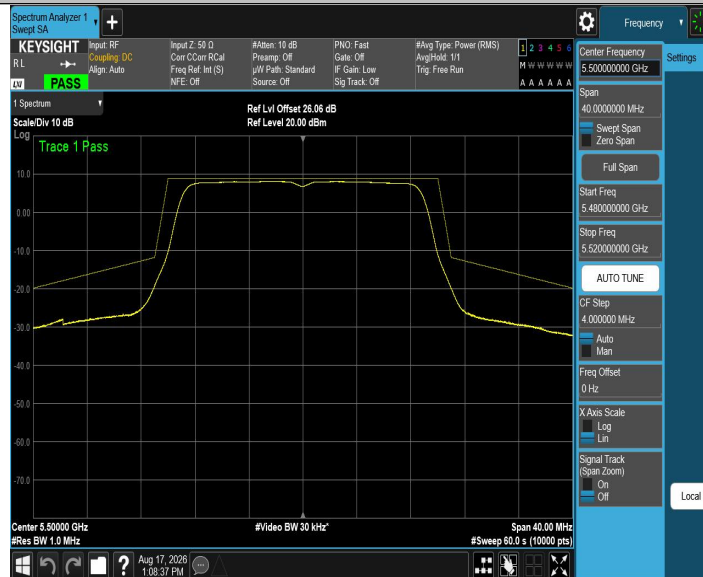


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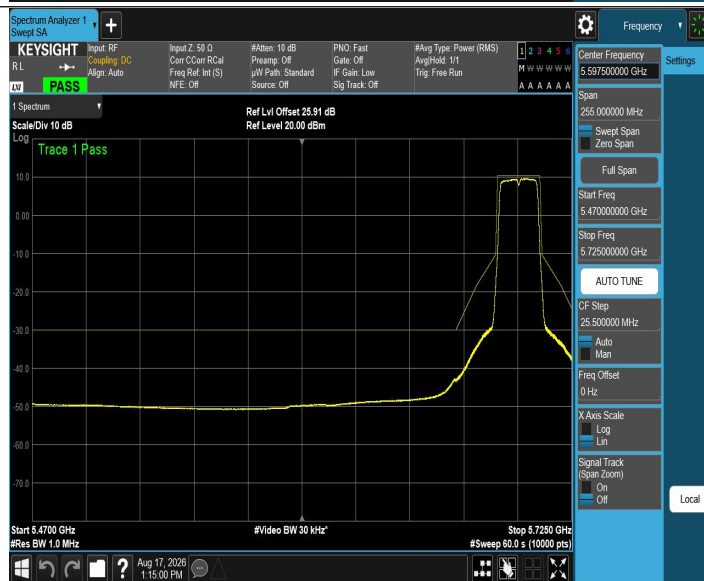
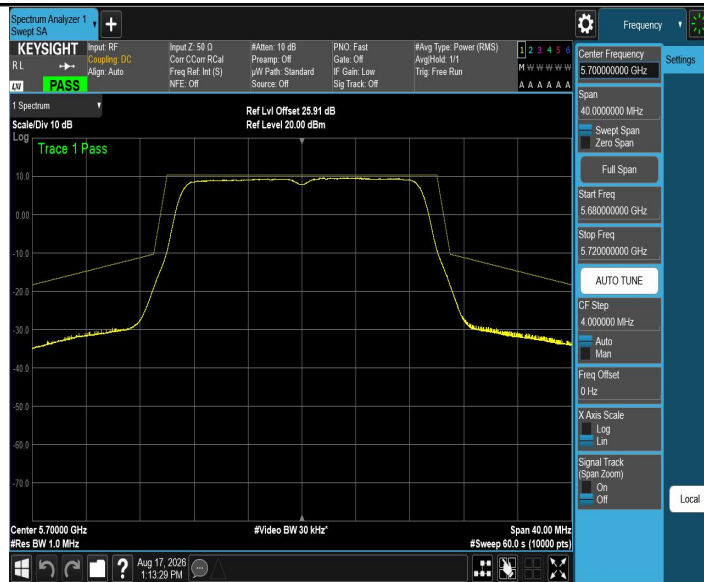




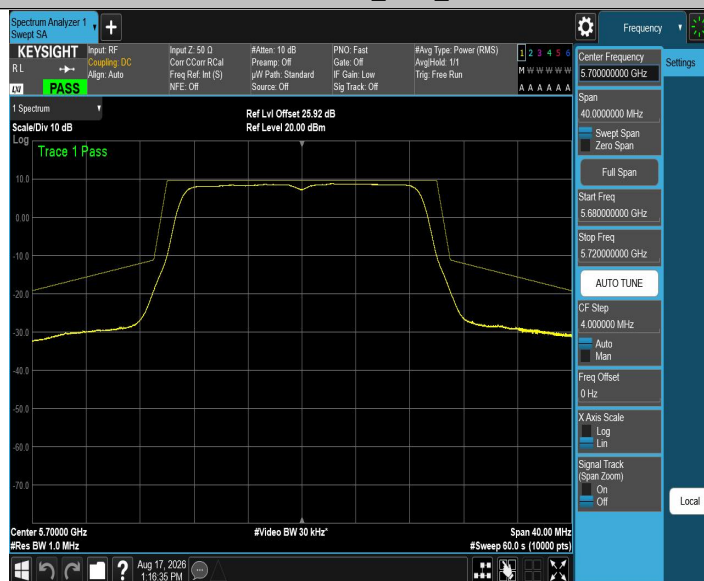
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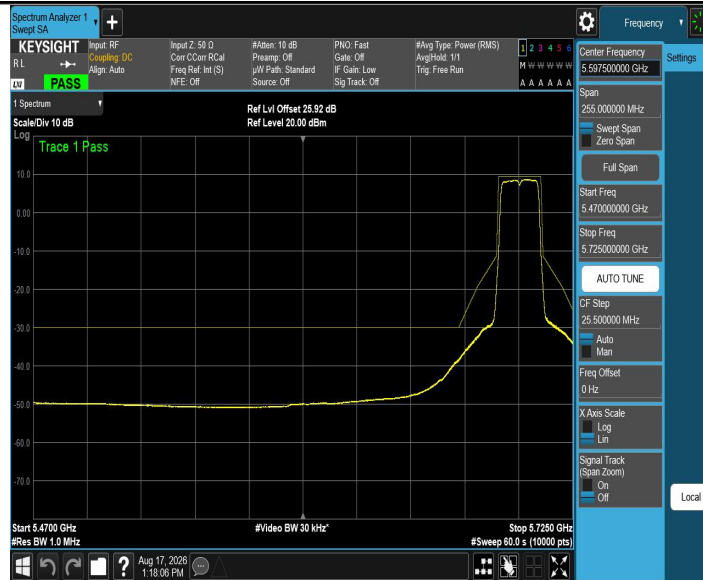


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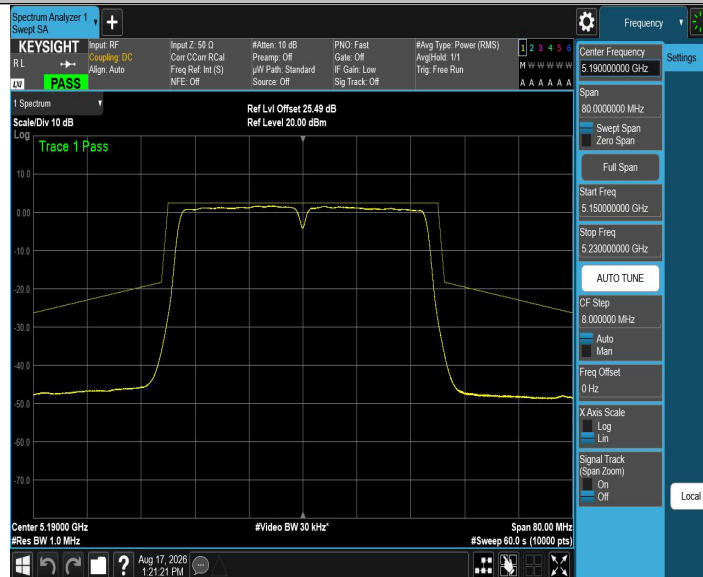


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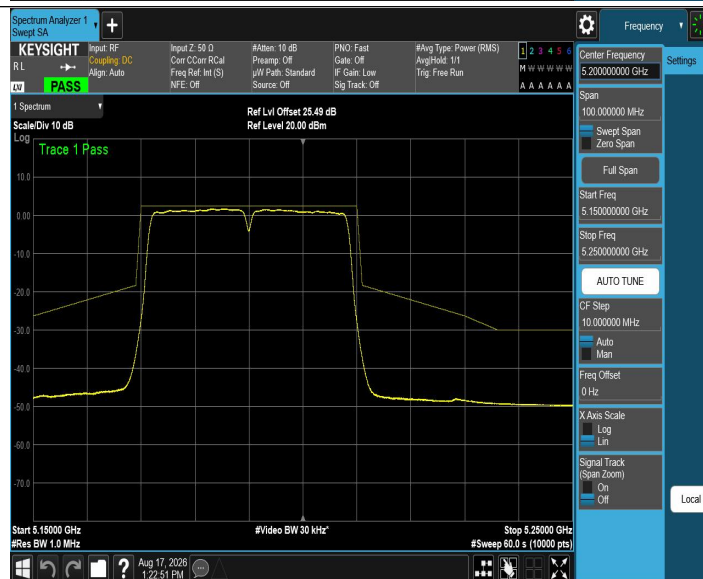




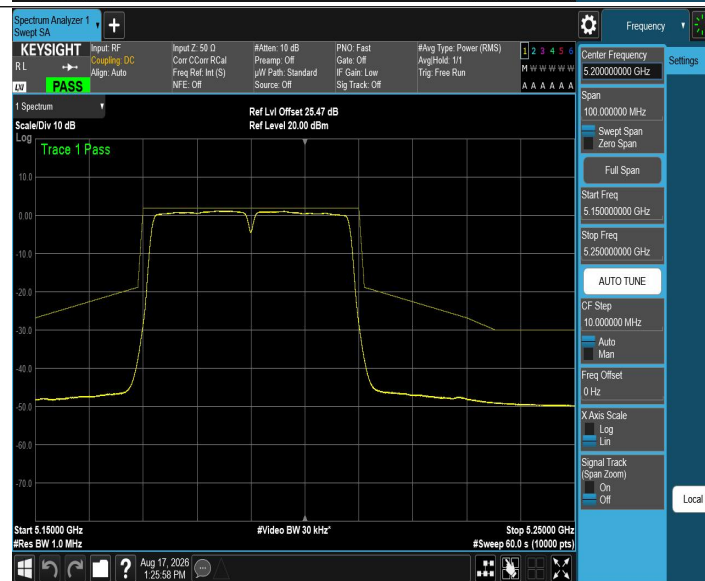
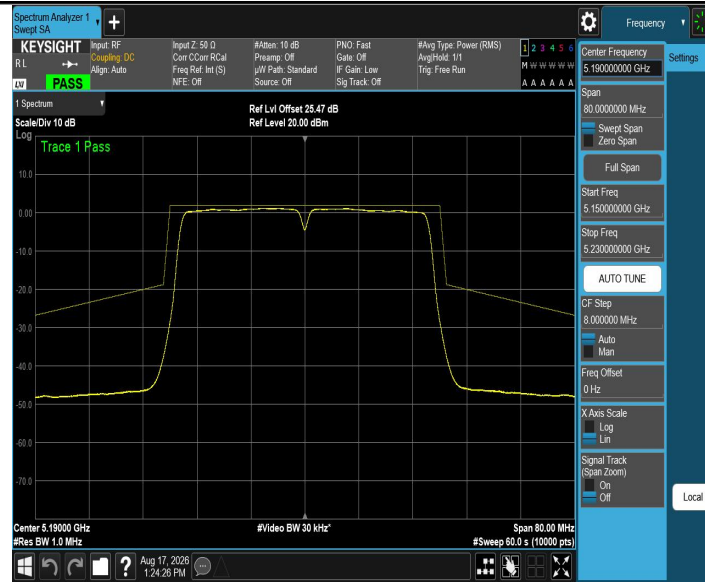
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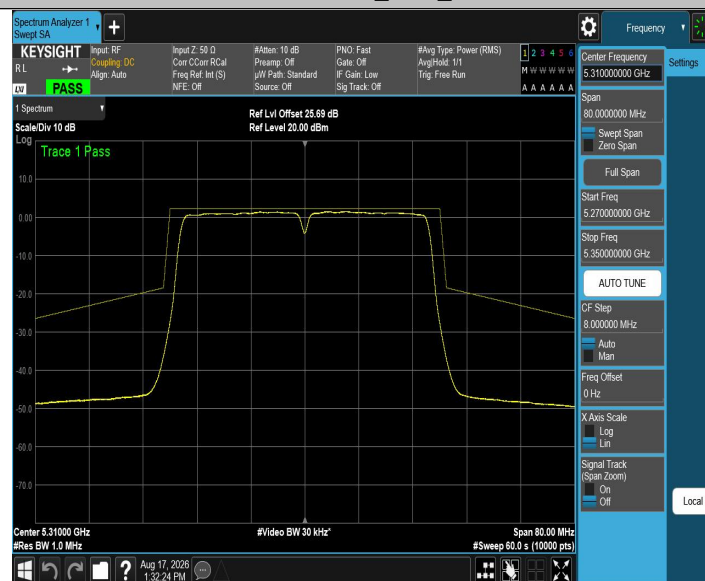
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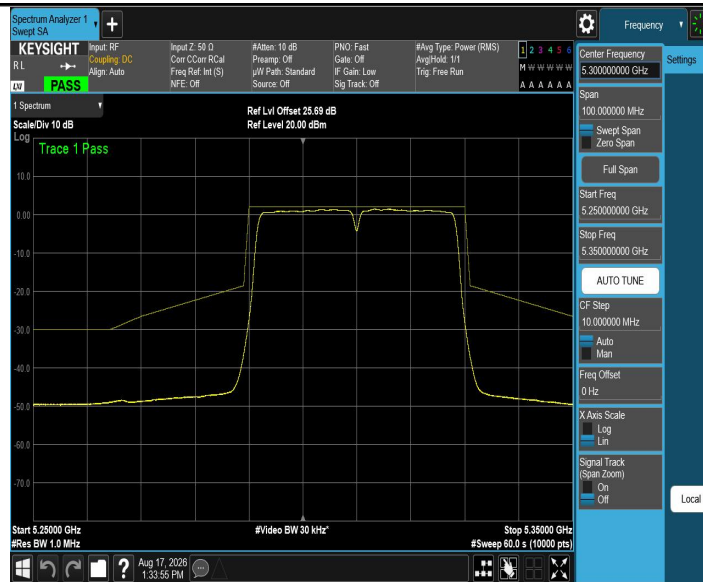


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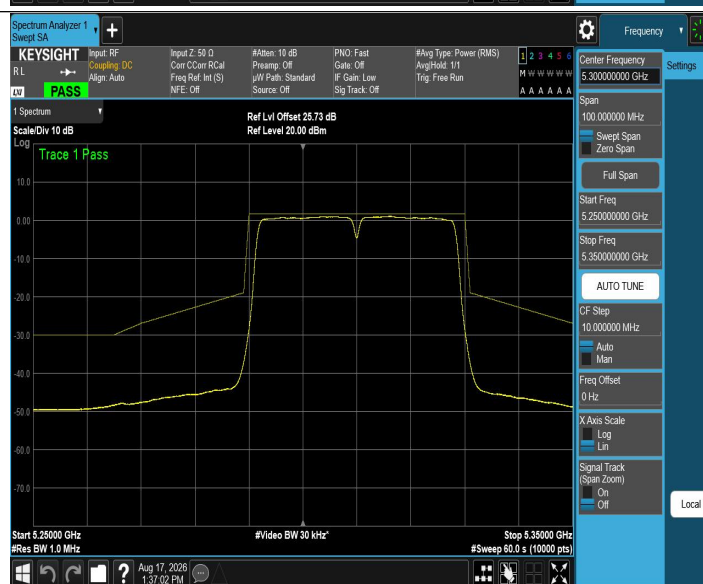
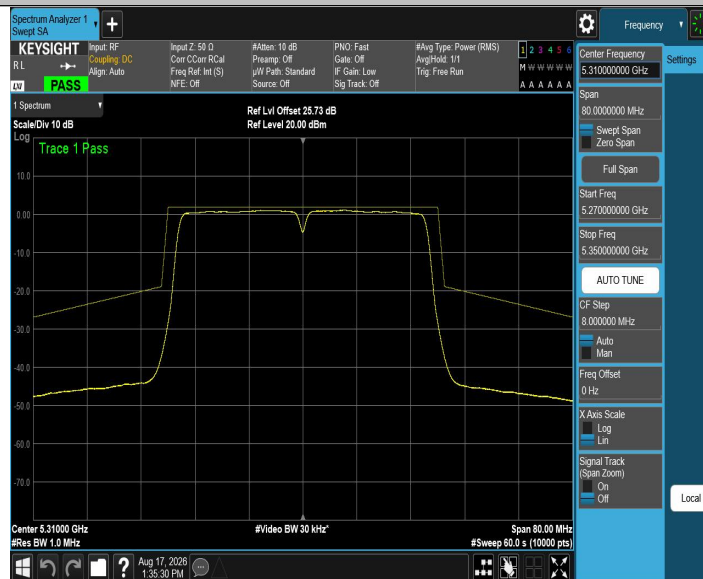


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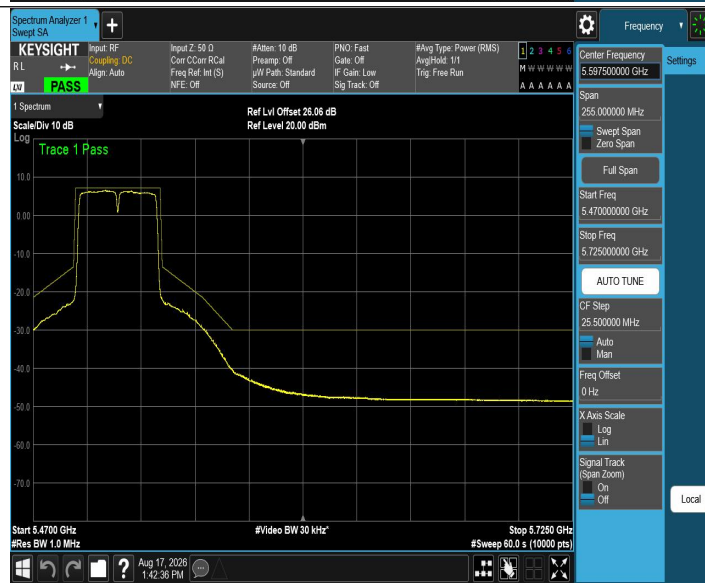
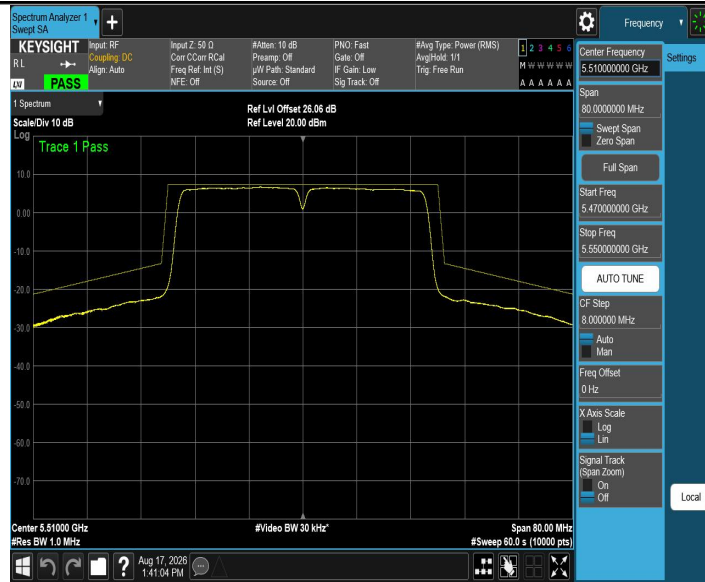




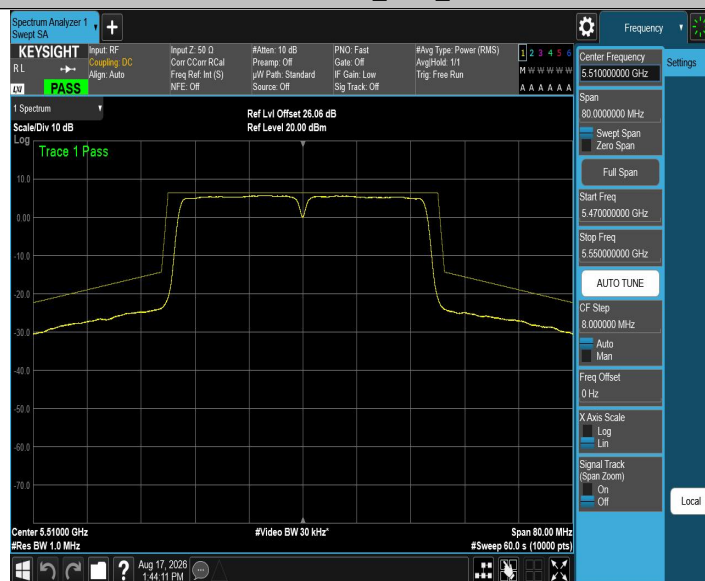
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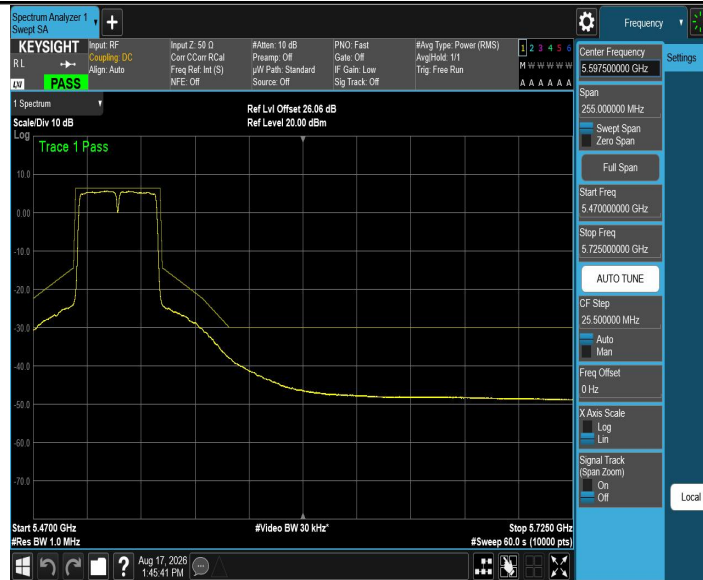


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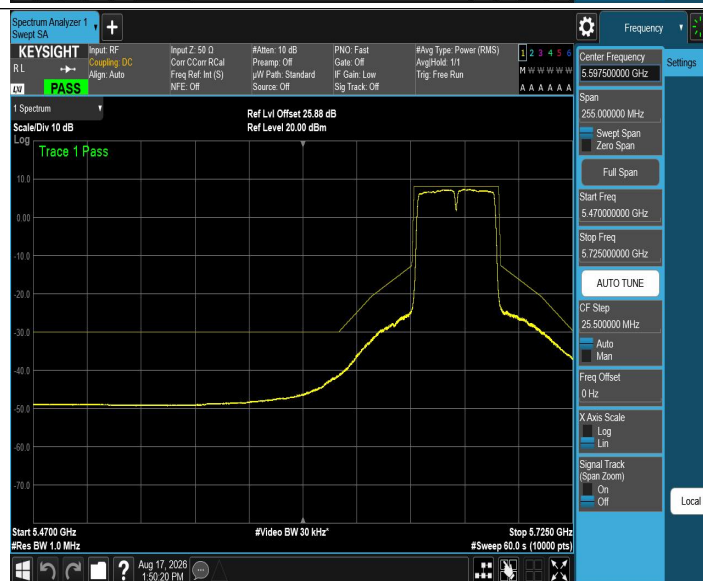
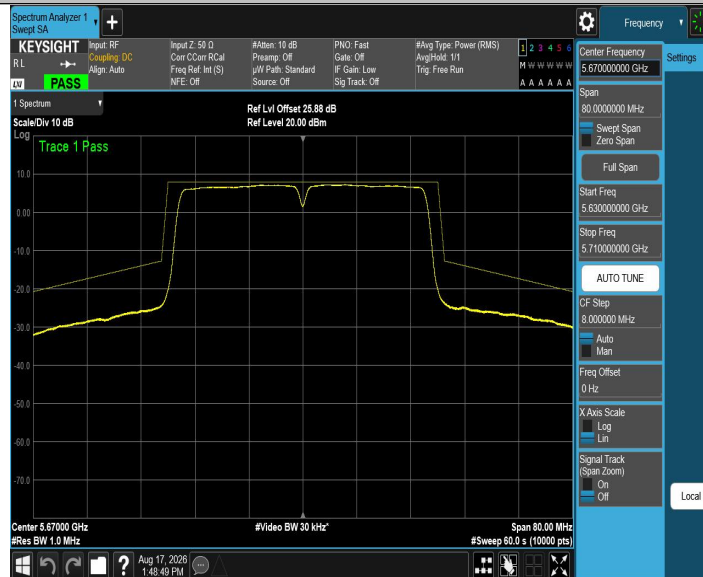


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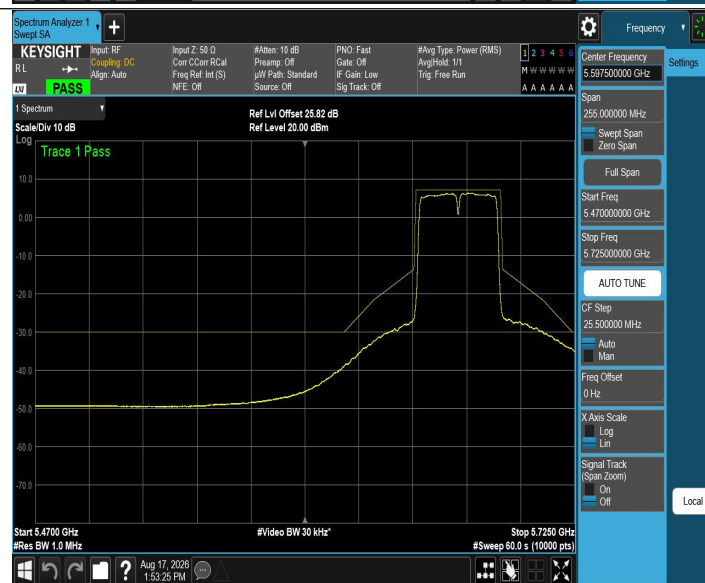
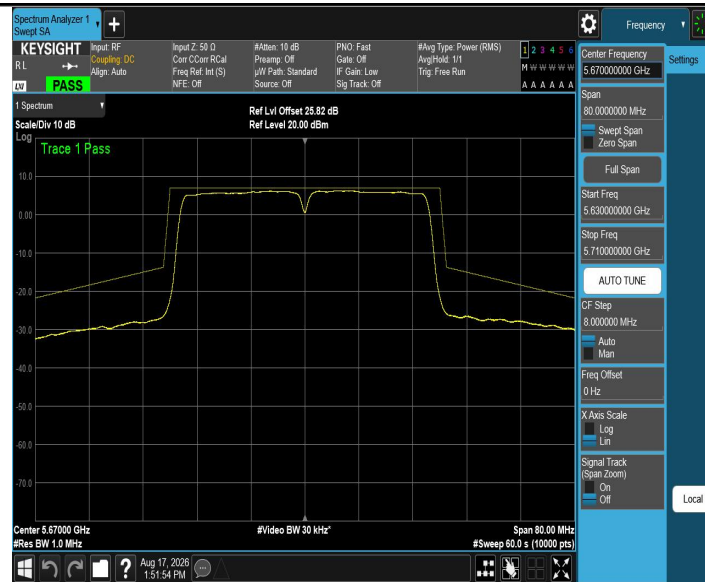




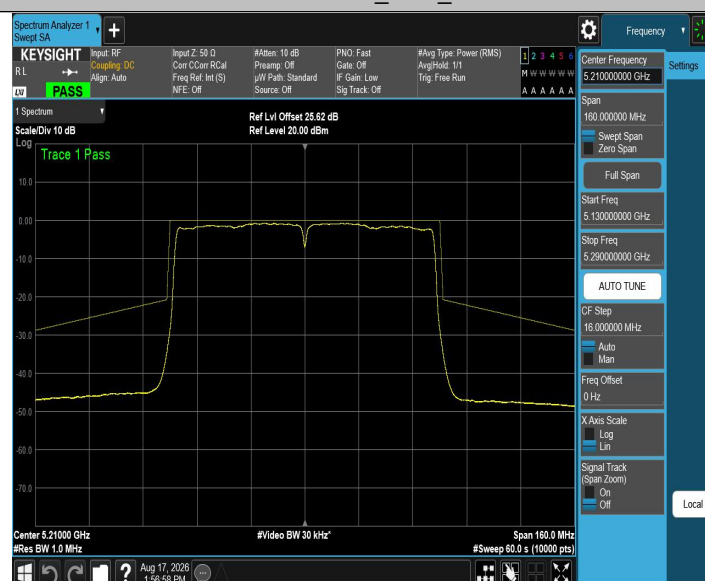
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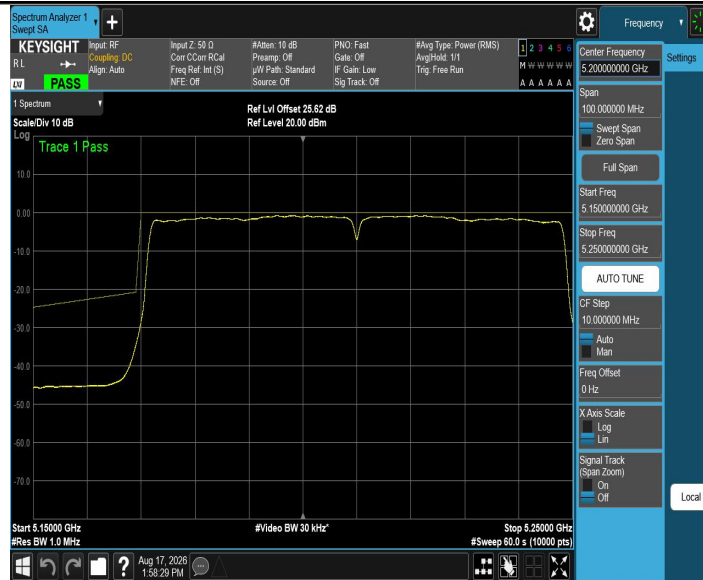


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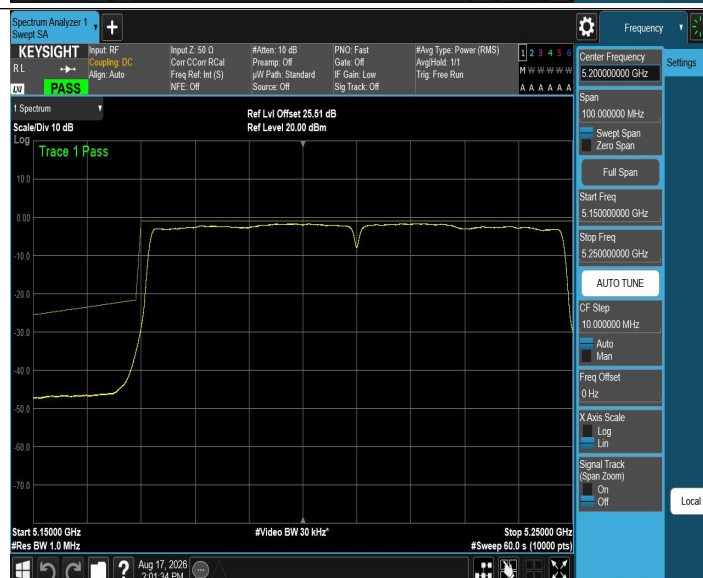
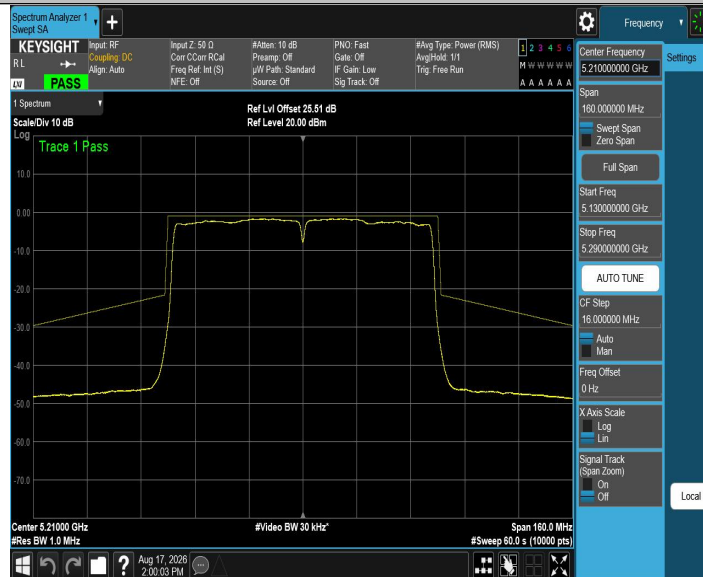


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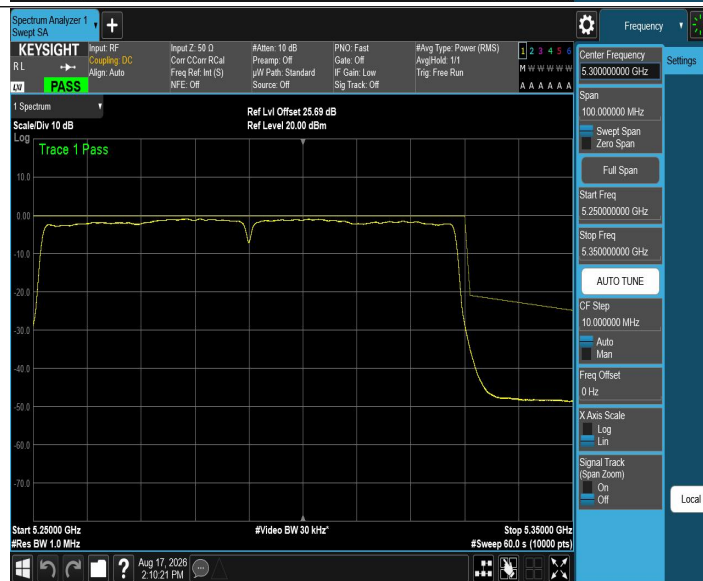
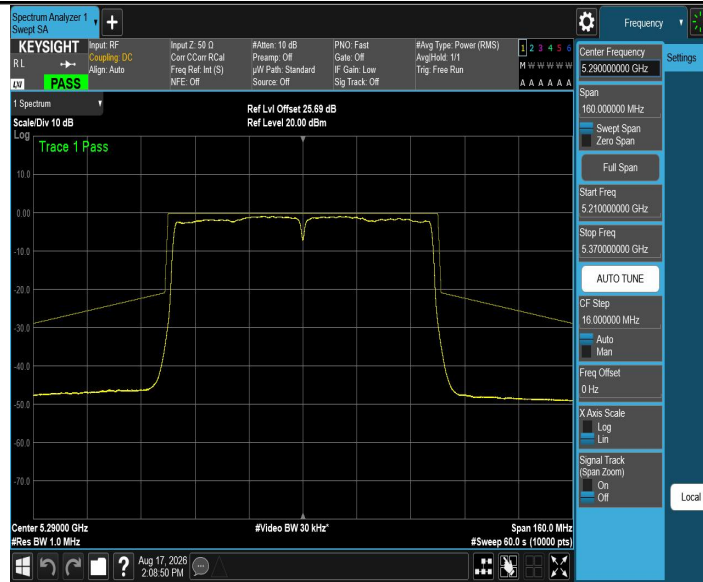




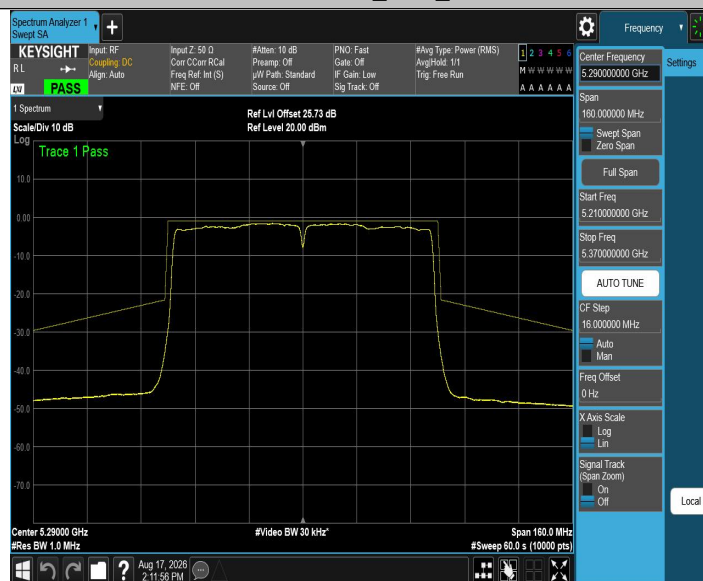
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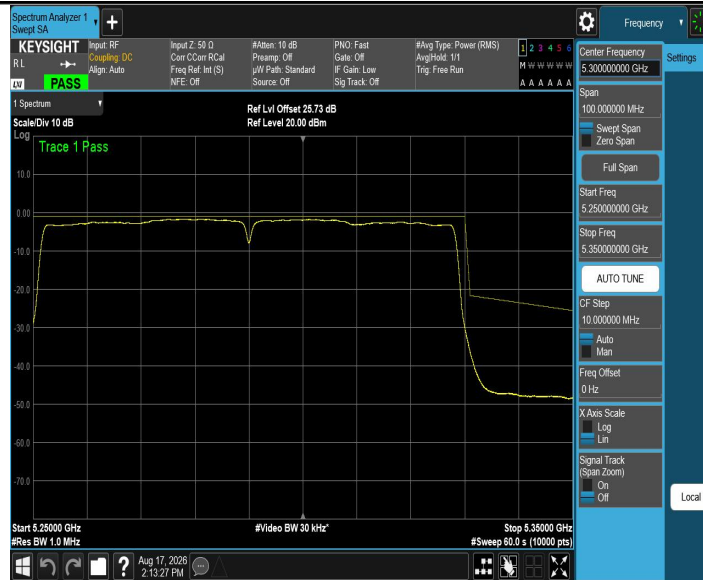


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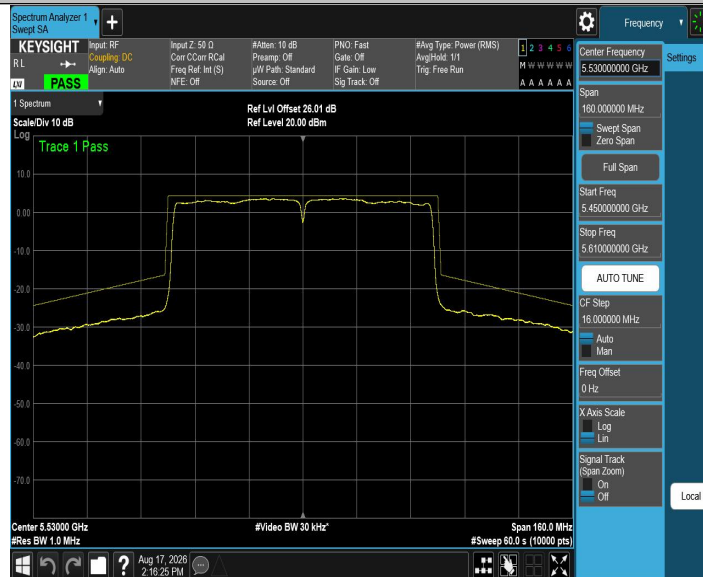


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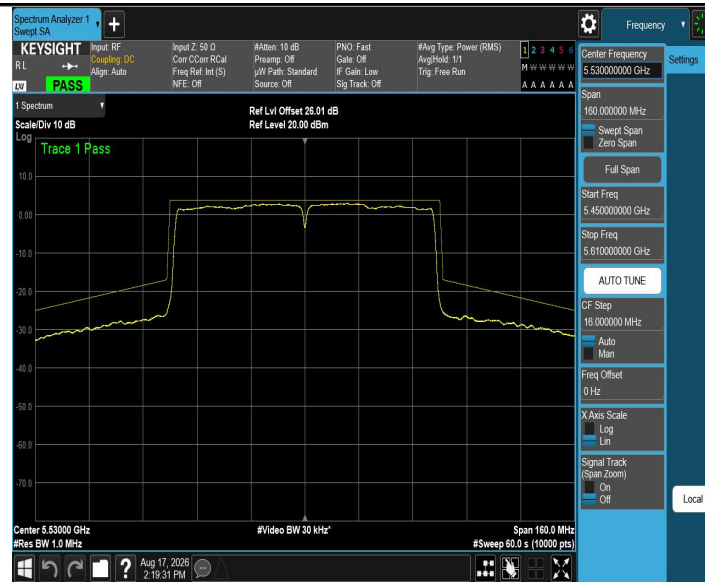




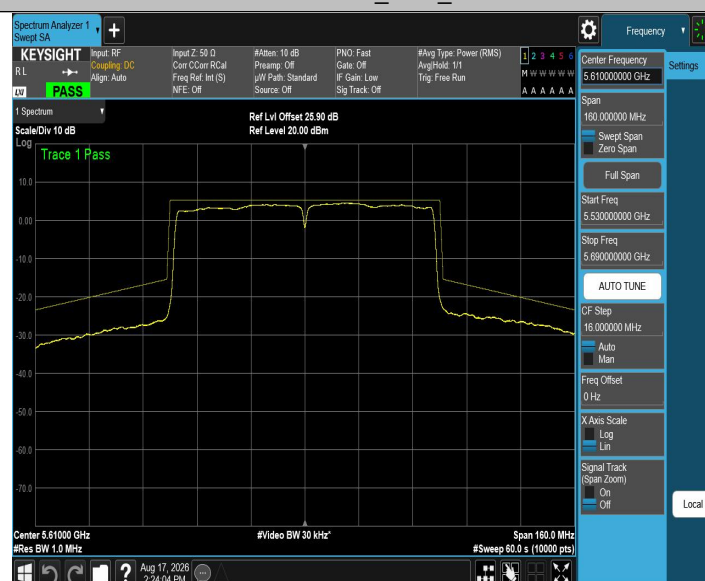
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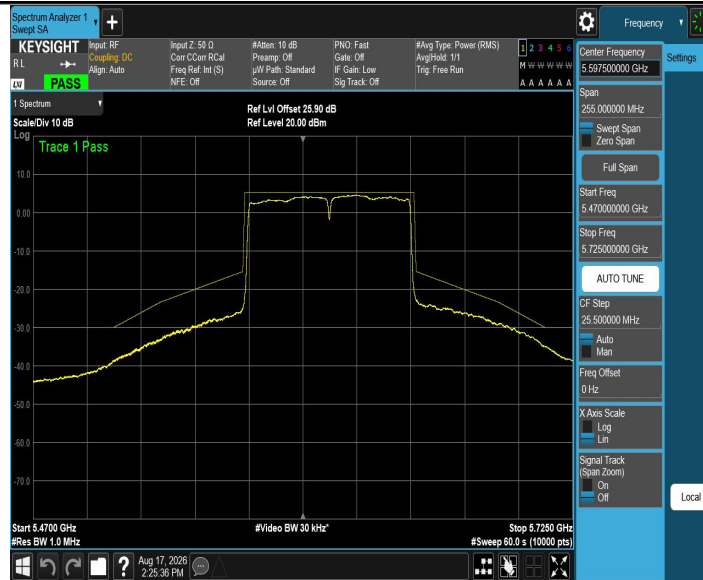


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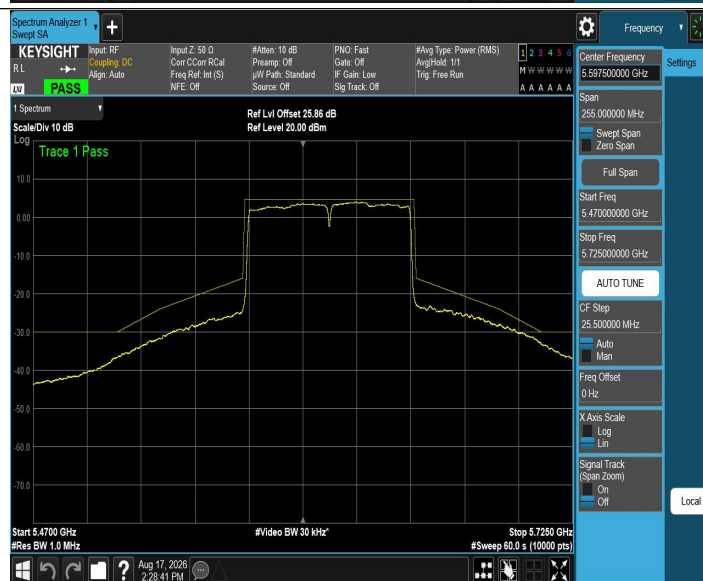
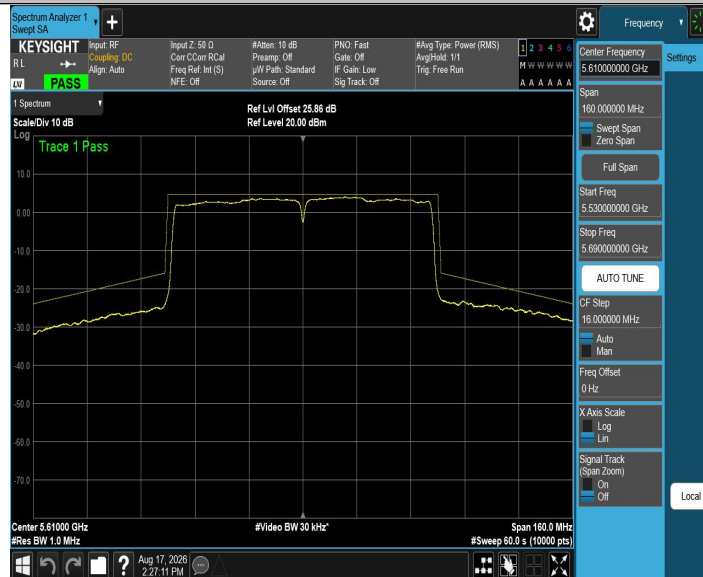


11AC80MIMO_Ant1_5610

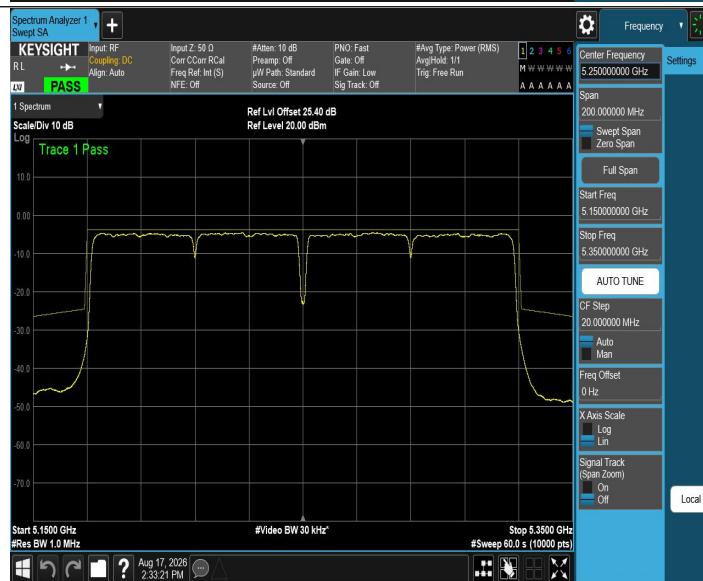
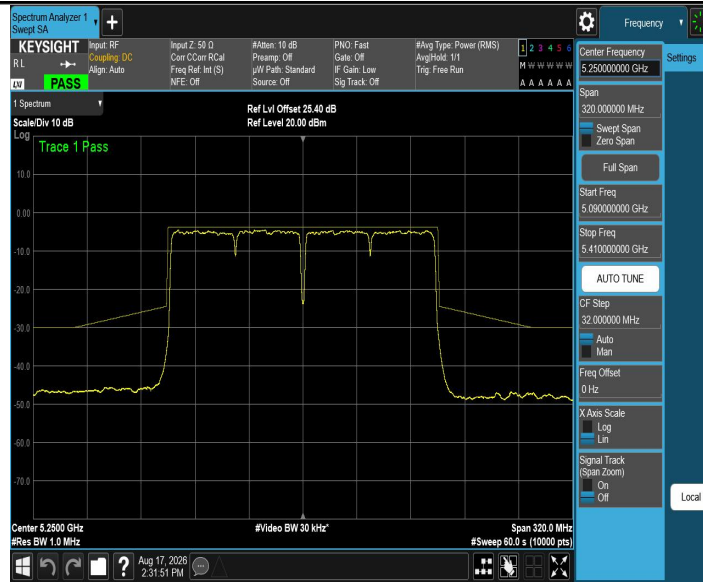




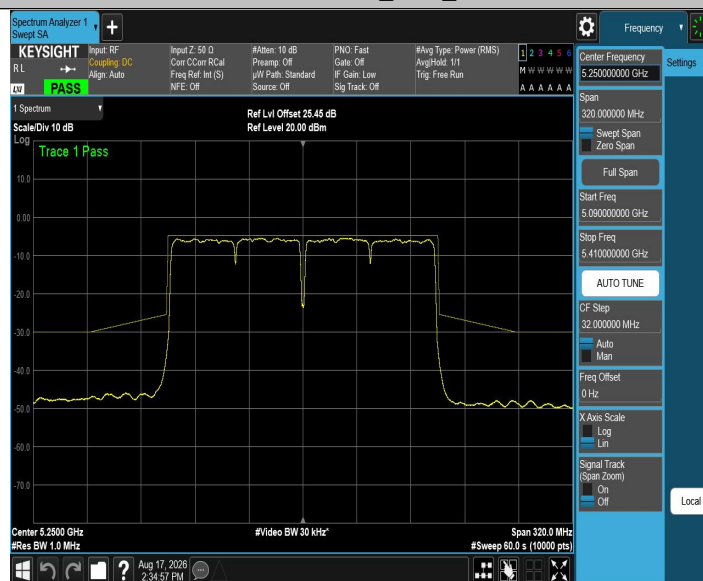
11AC80MIMO_Ant2_5610

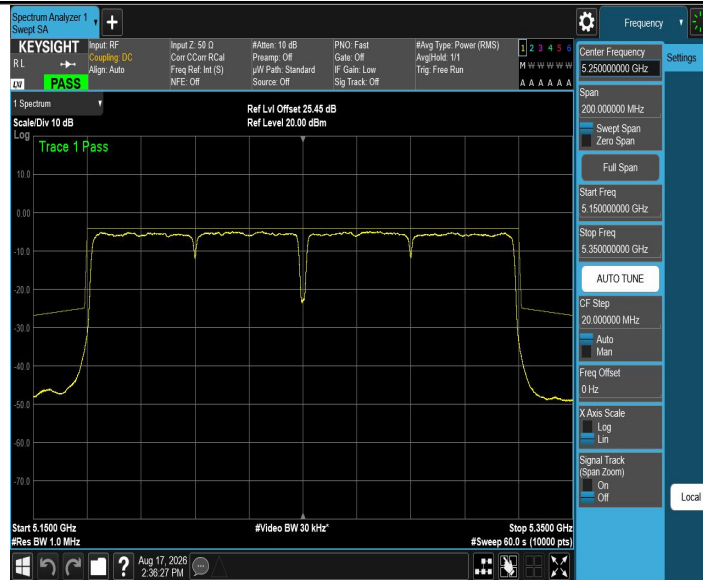


11AC160MIMO_Ant1_5250

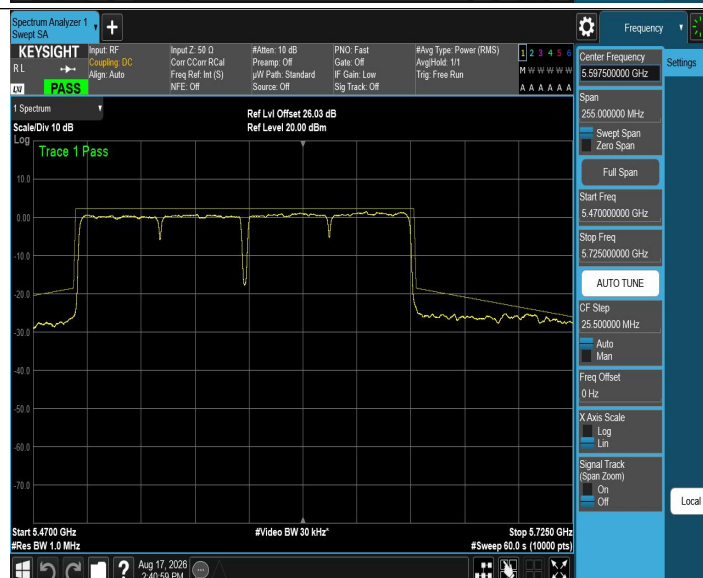
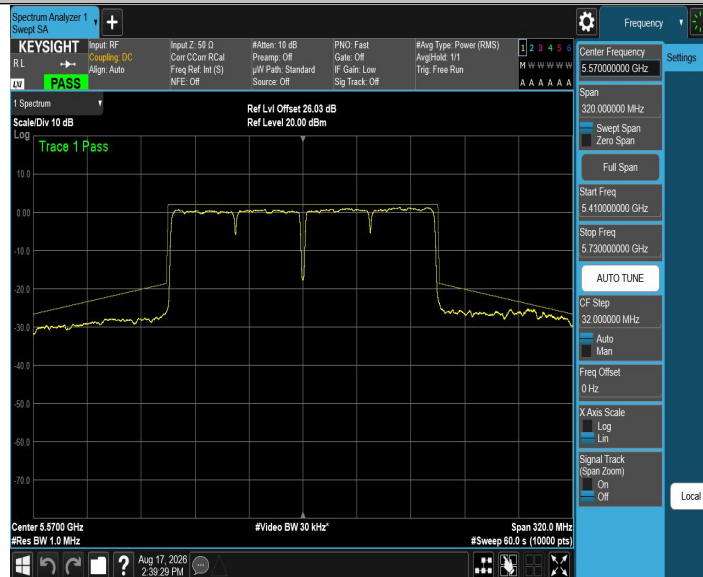


11AC160MIMO_Ant2_5250

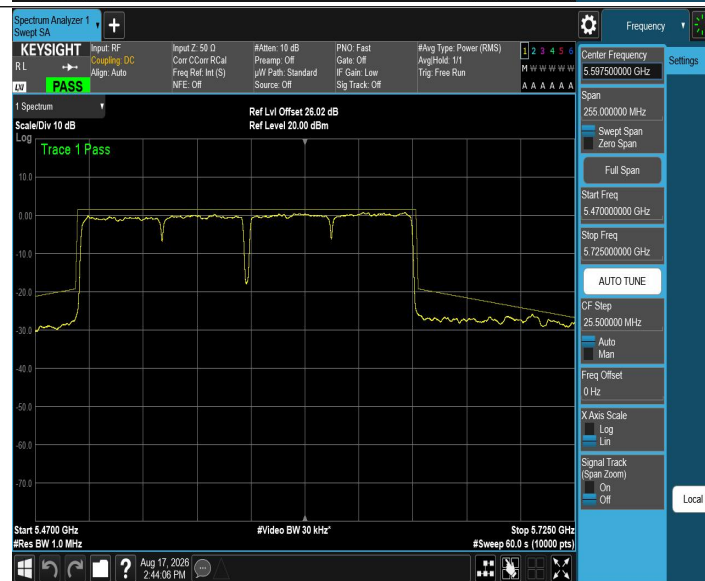
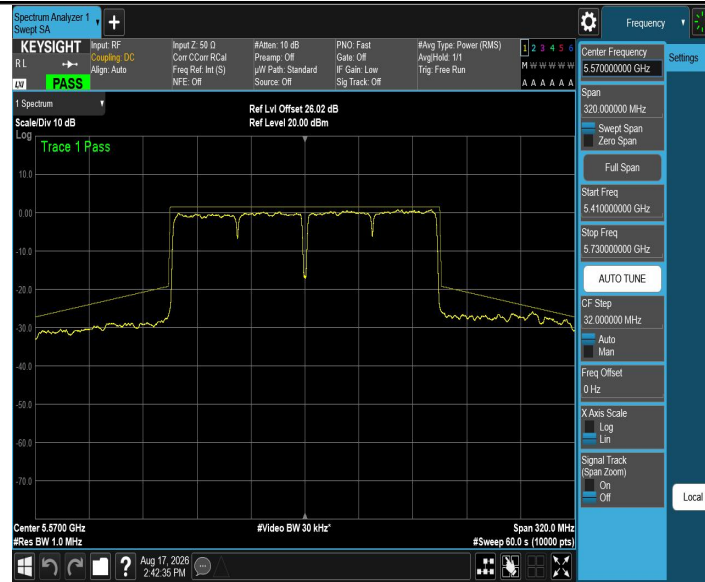




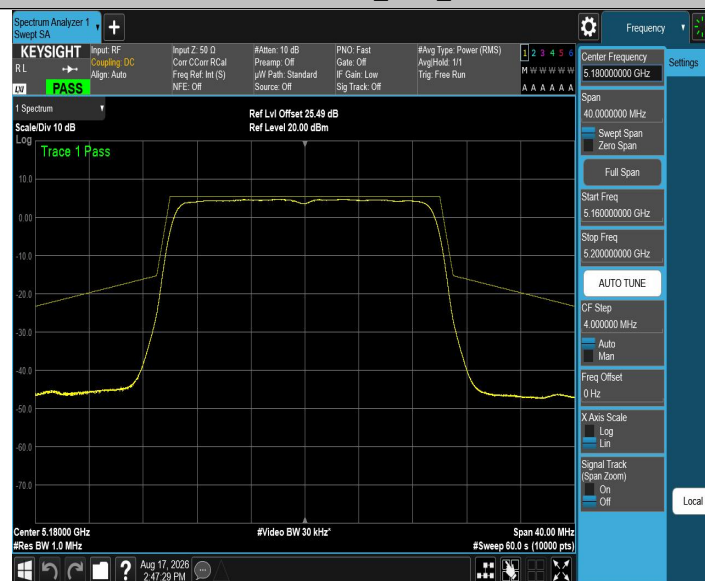
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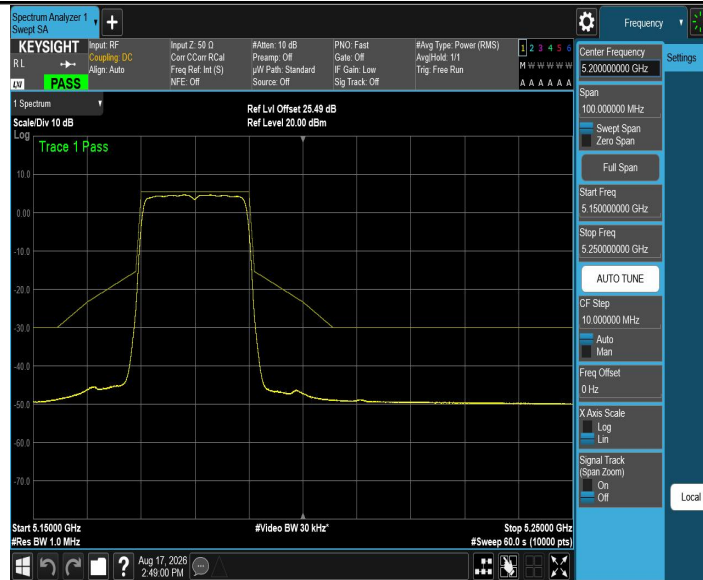


11AC160MIMO_Ant2_5570

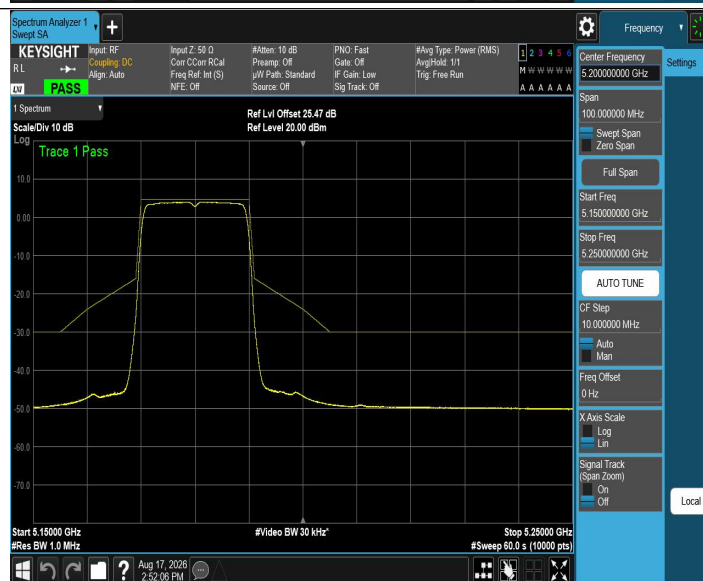
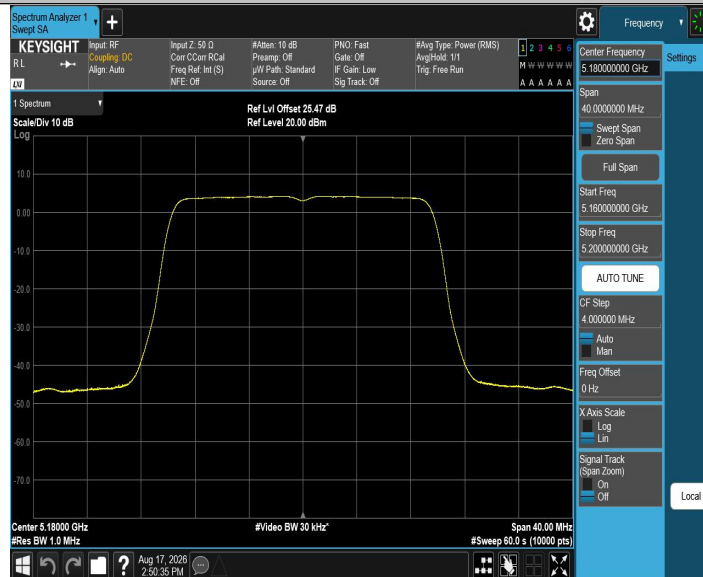


11AX20MIMO_Ant1_5180

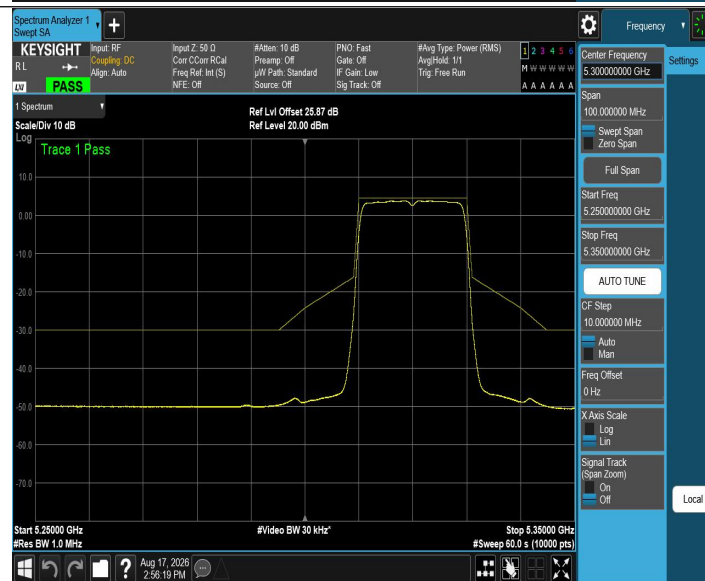
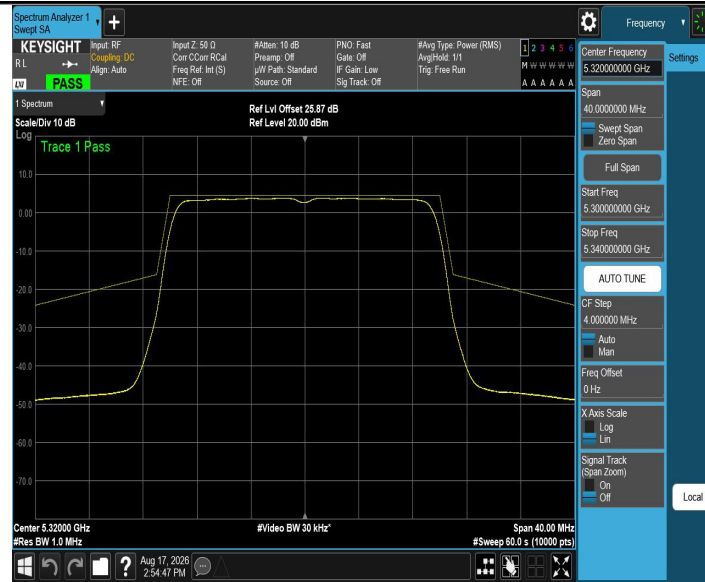




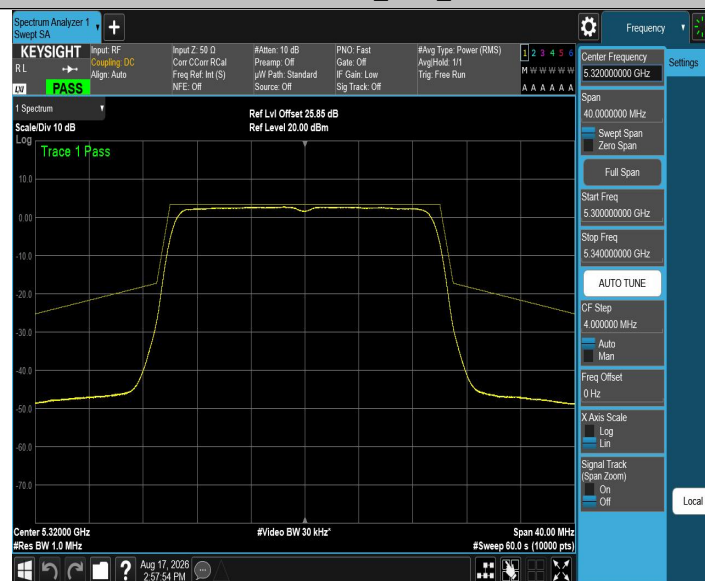
11AX20MIMO_Ant2_5180

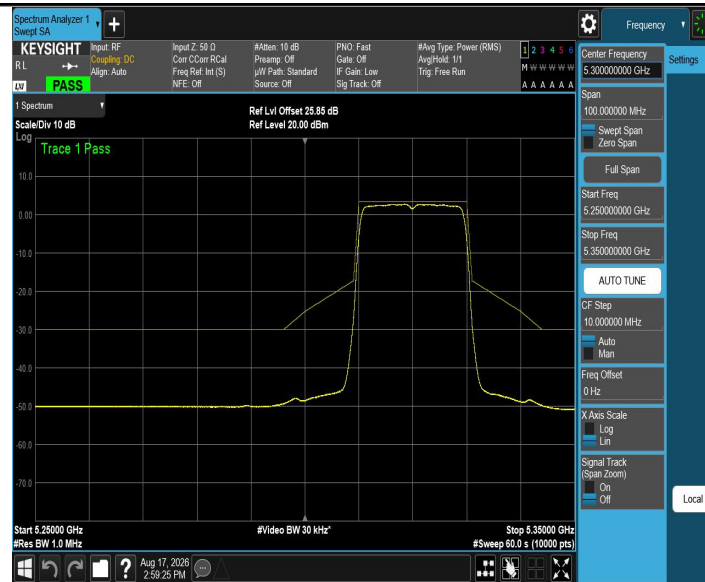


11AX20MIMO_Ant1_5320

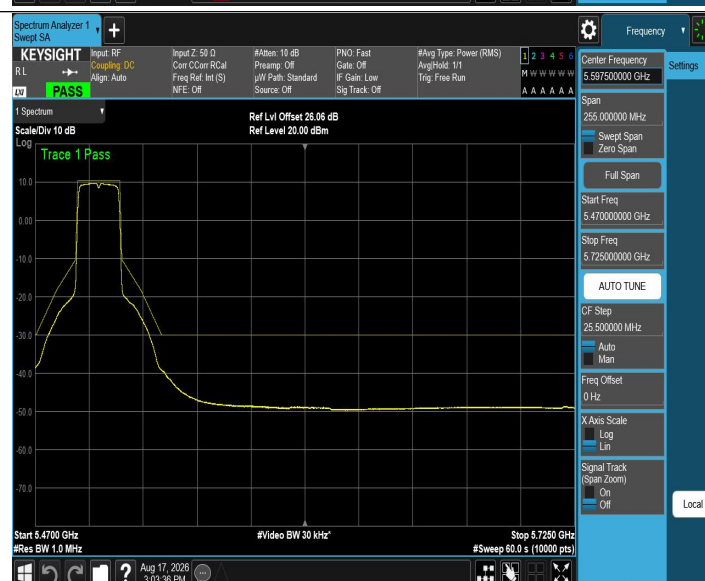
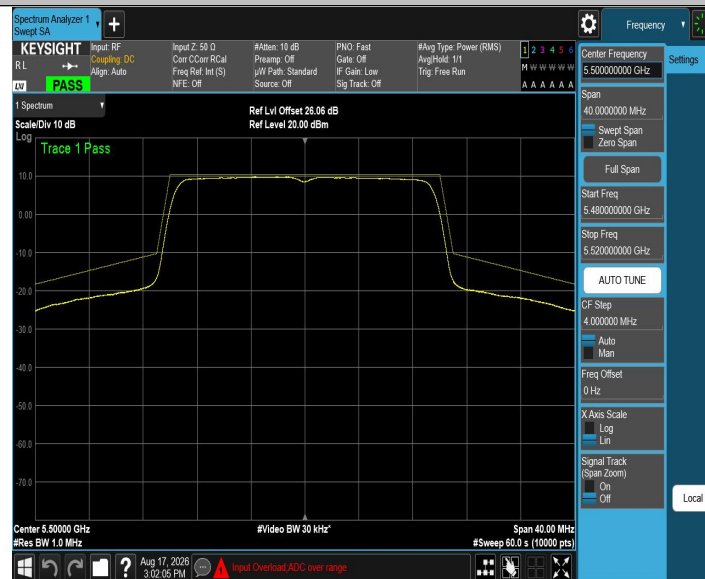


11AX20MIMO_Ant2_5320

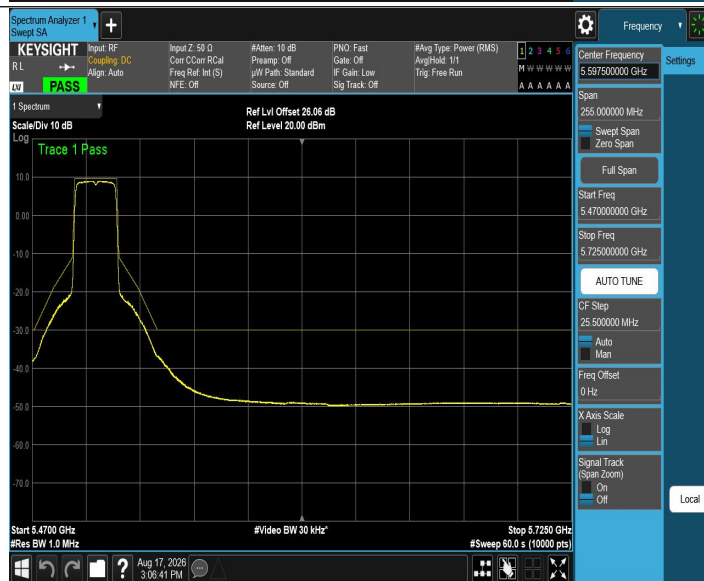
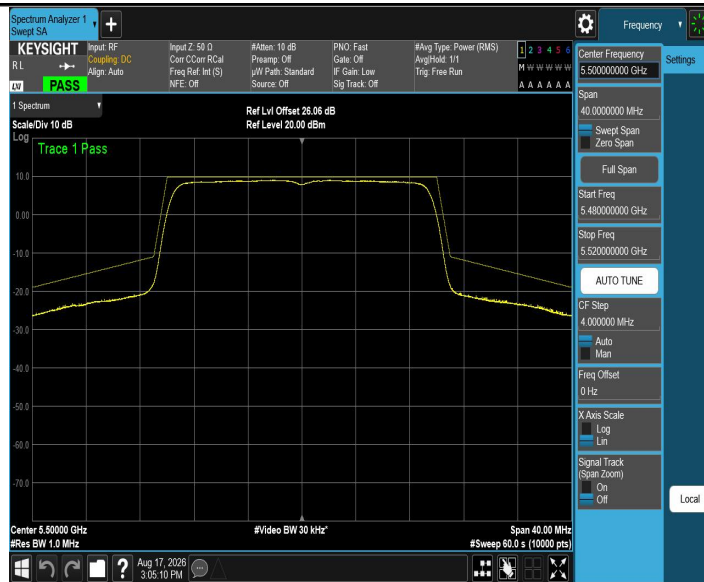




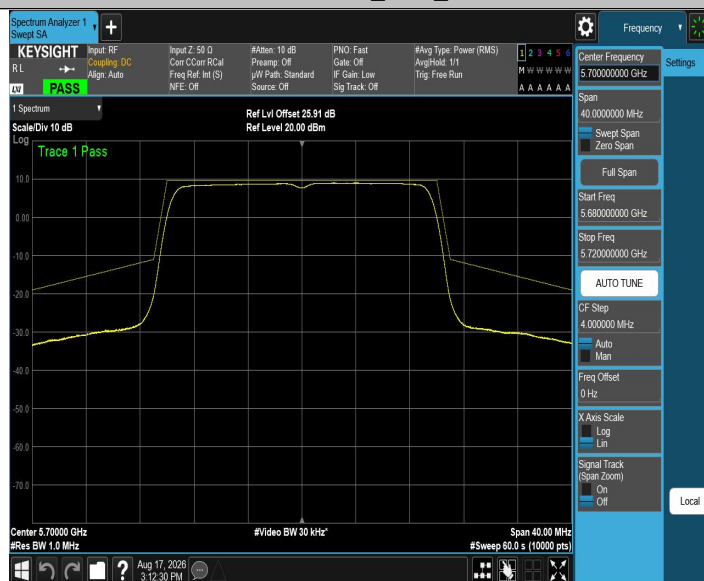
11AX20MIMO_Ant1_5500

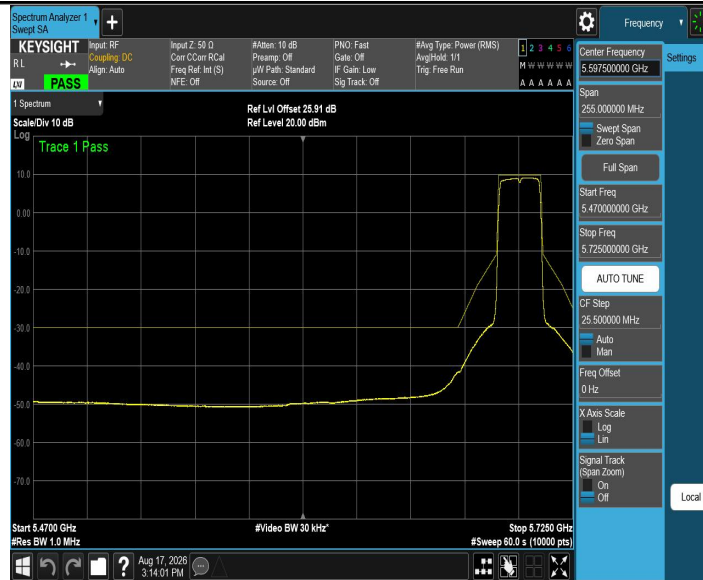


11AX20MIMO_Ant2_5500

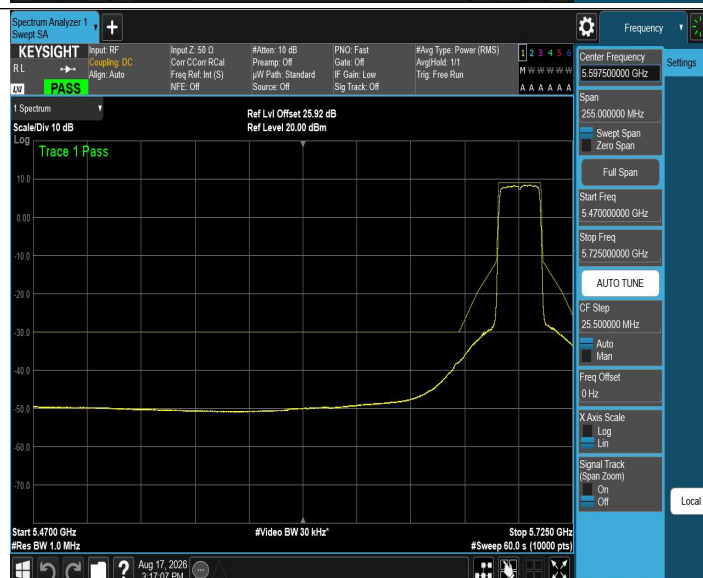
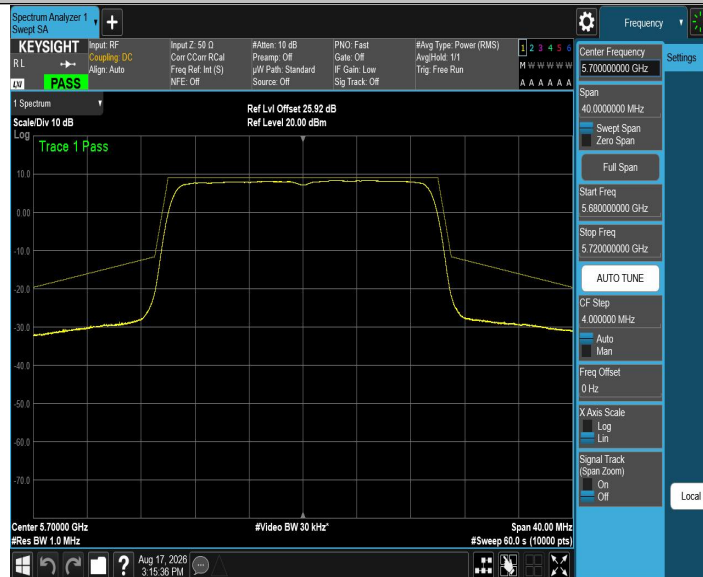


11AX20MIMO_Ant1_5700

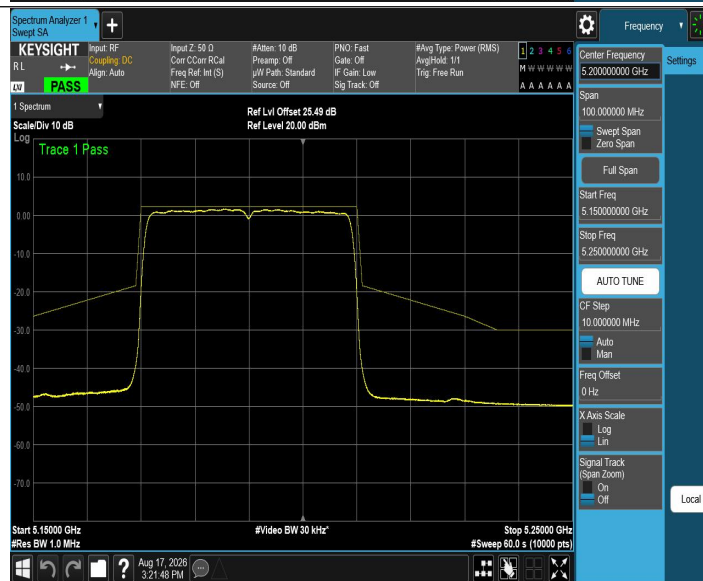
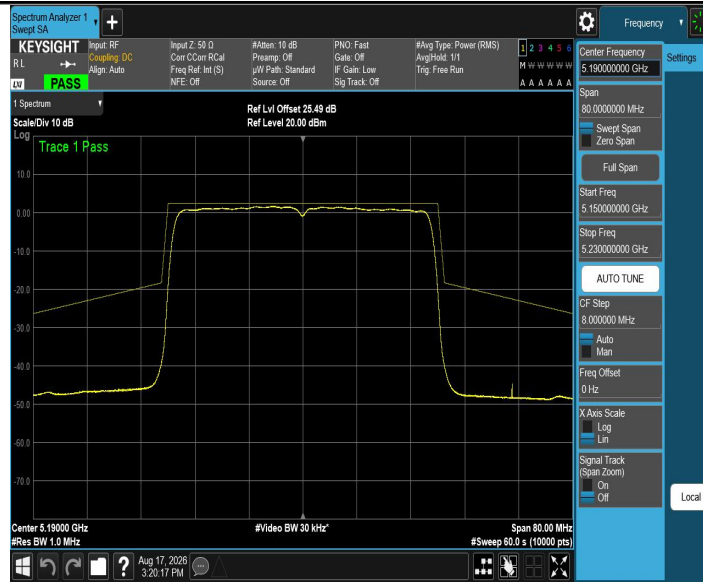




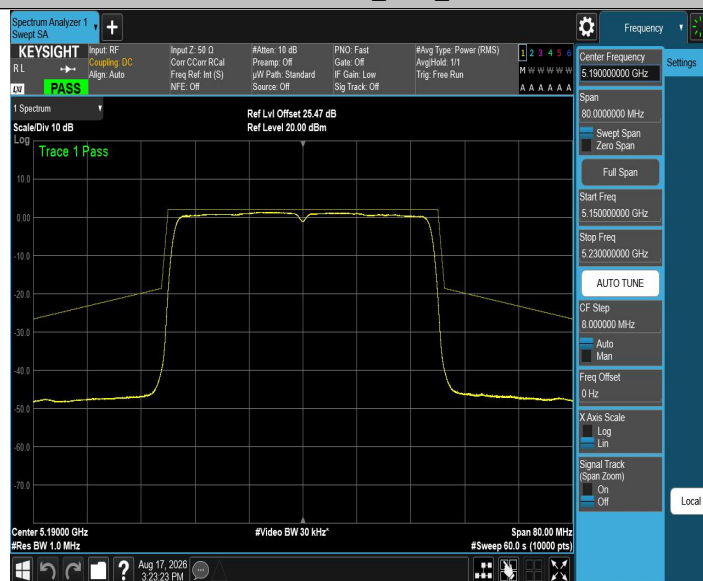
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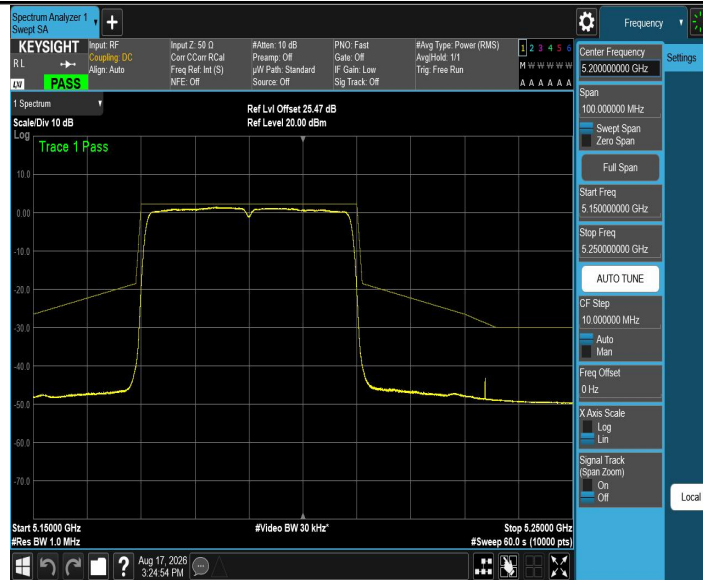


11AX40MIMO_Ant1_5190

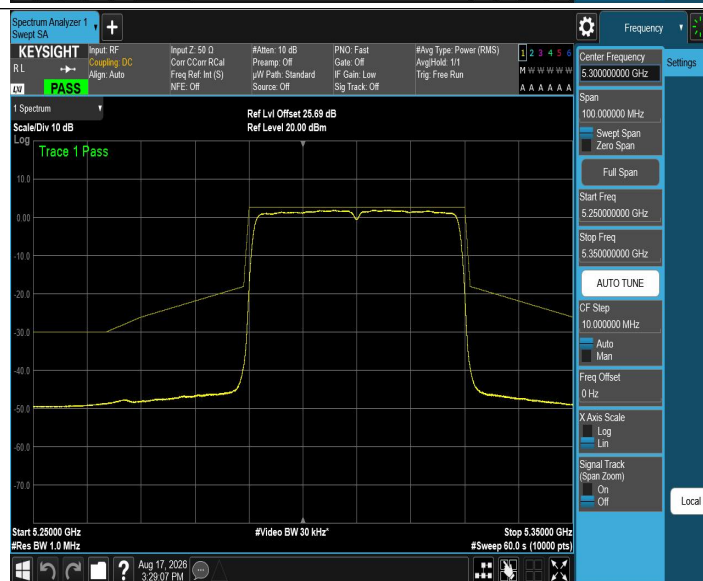
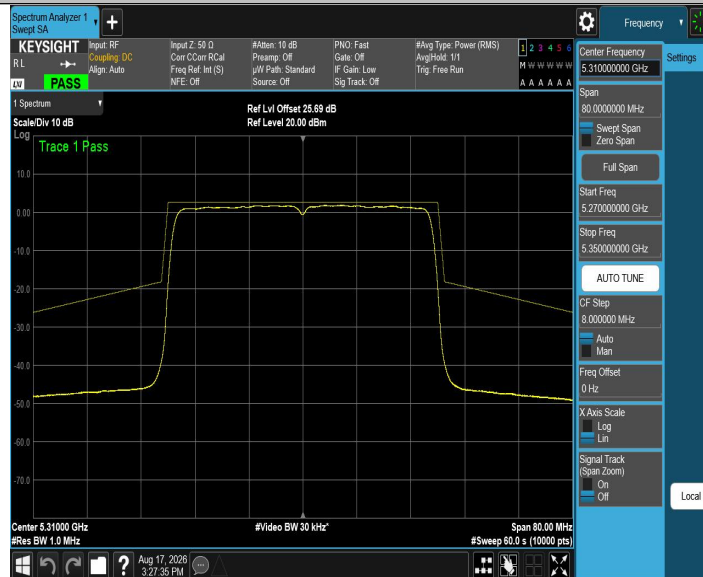


11AX40MIMO_Ant2_5190

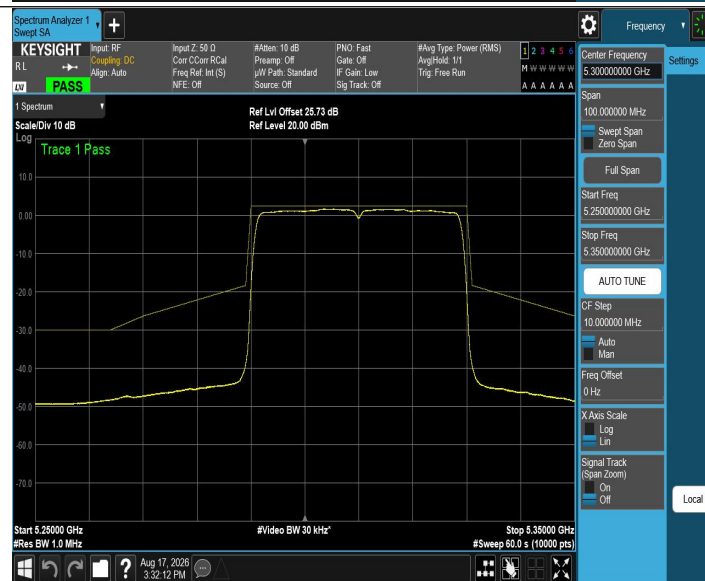
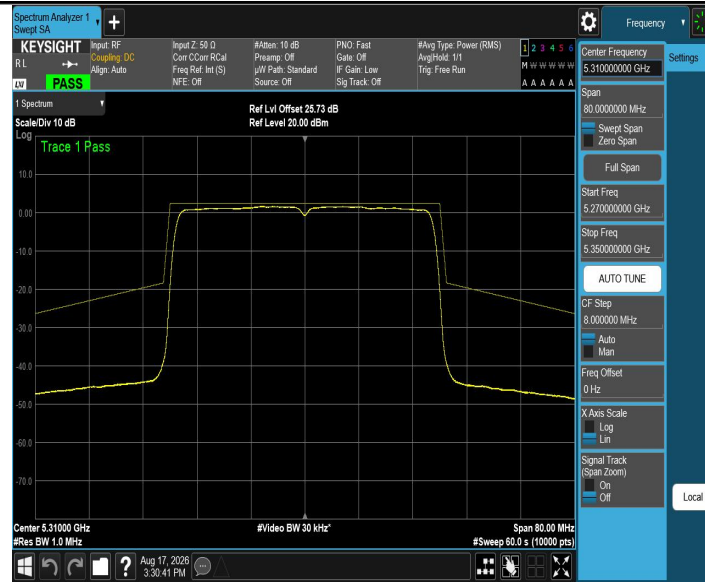




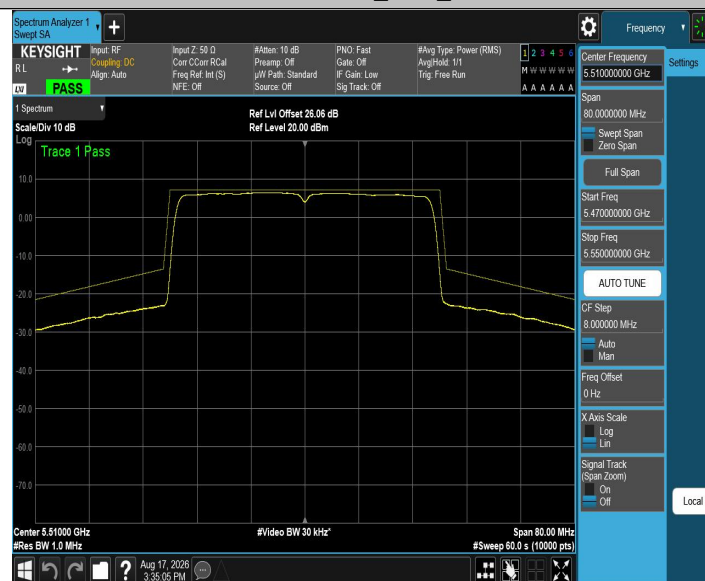
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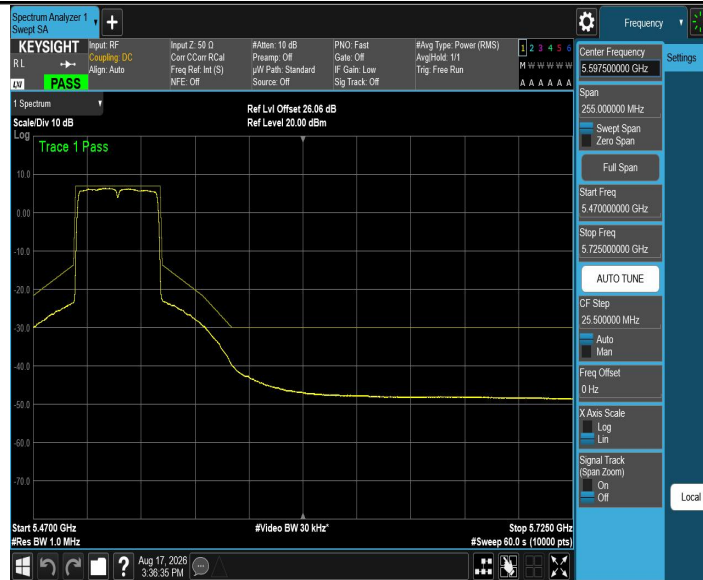


11AX40MIMO_Ant2_5310

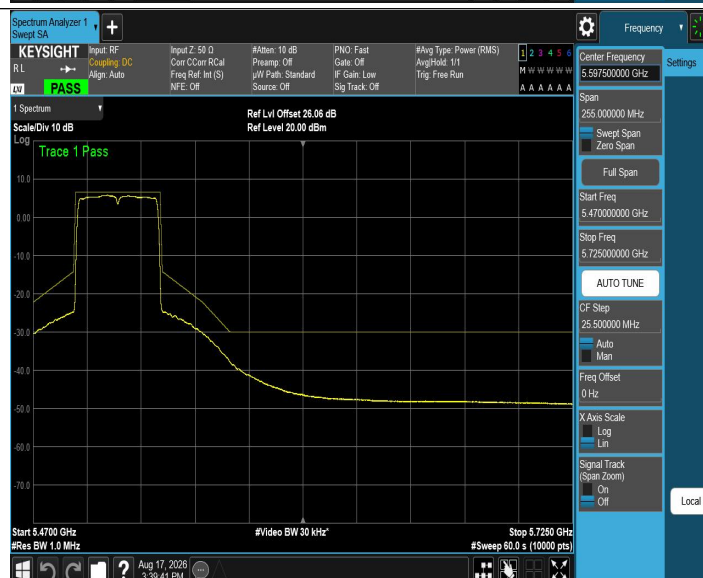
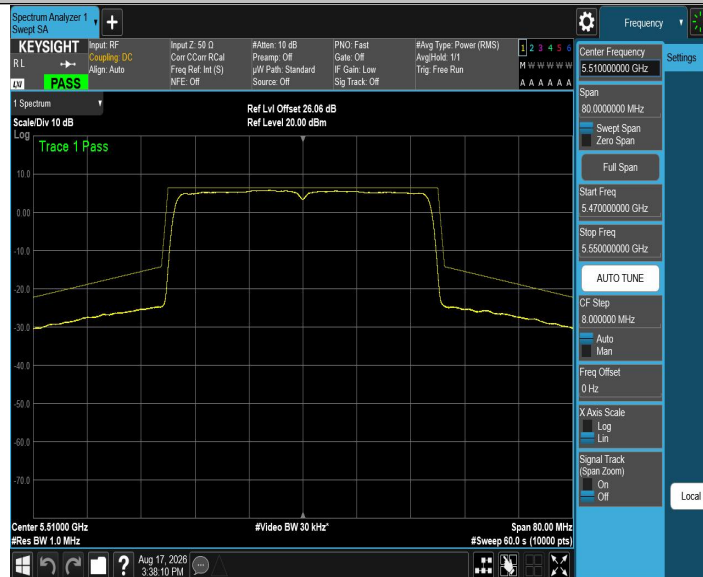


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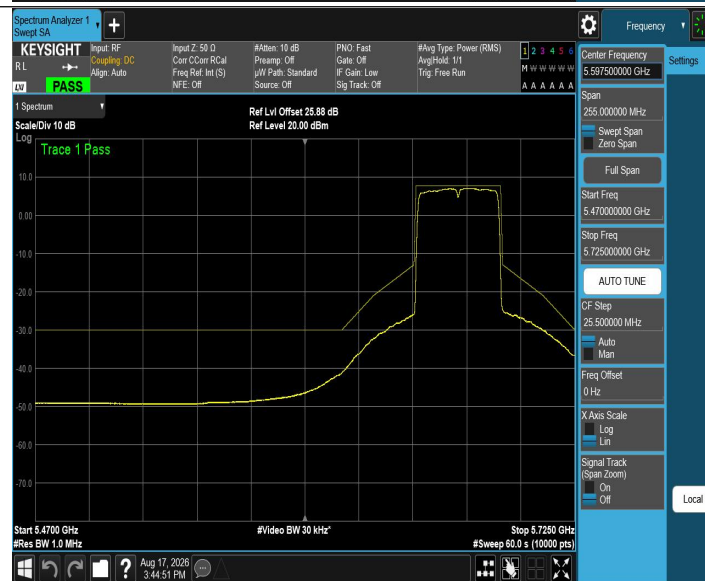
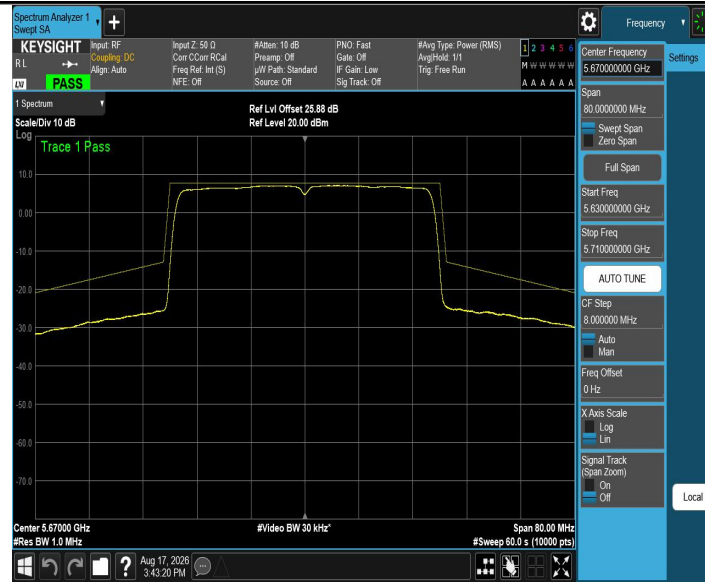




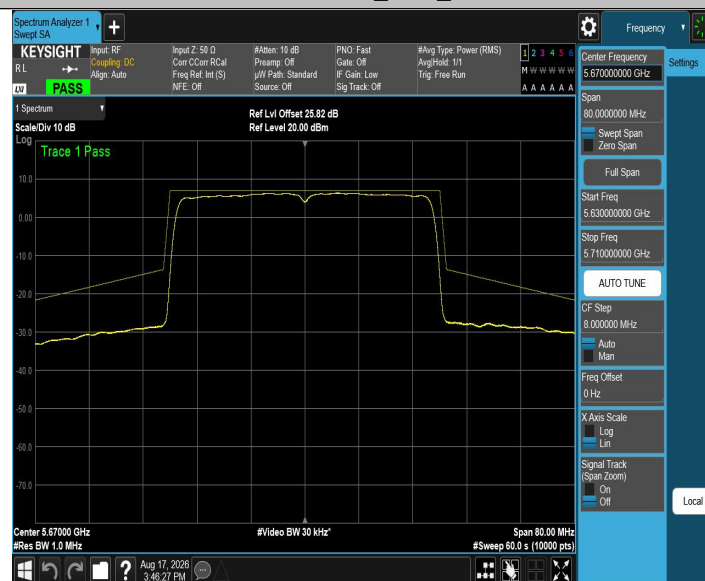
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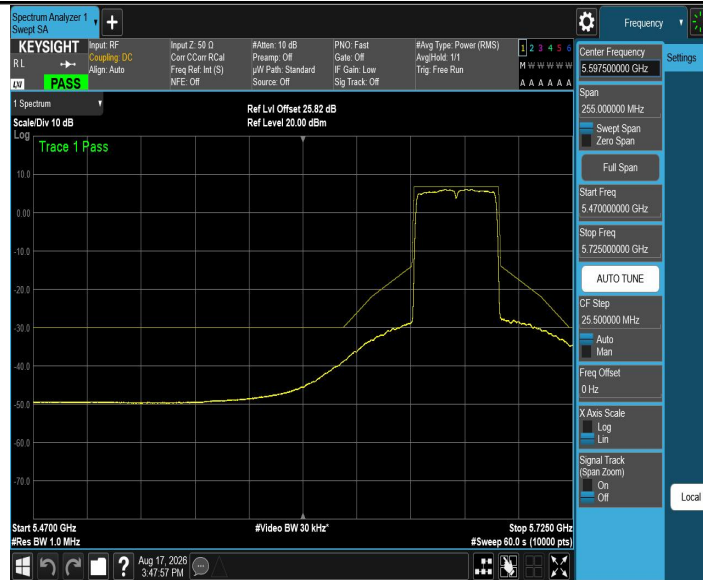


11AX40MIMO_Ant1_5670

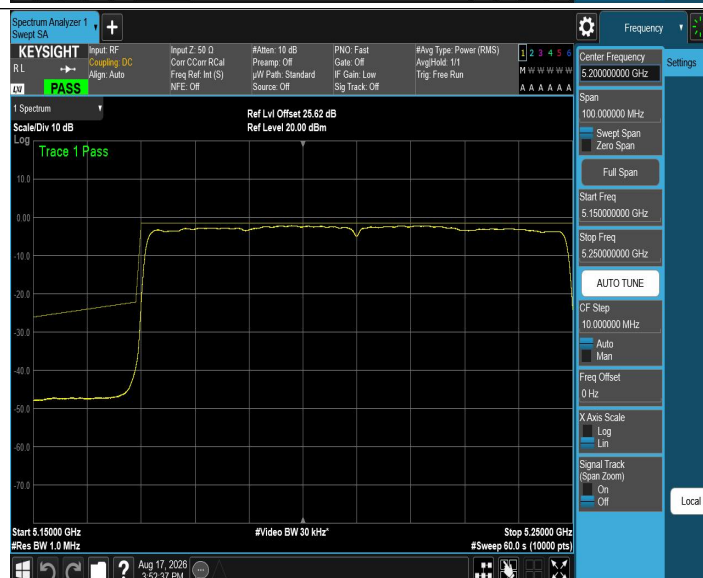
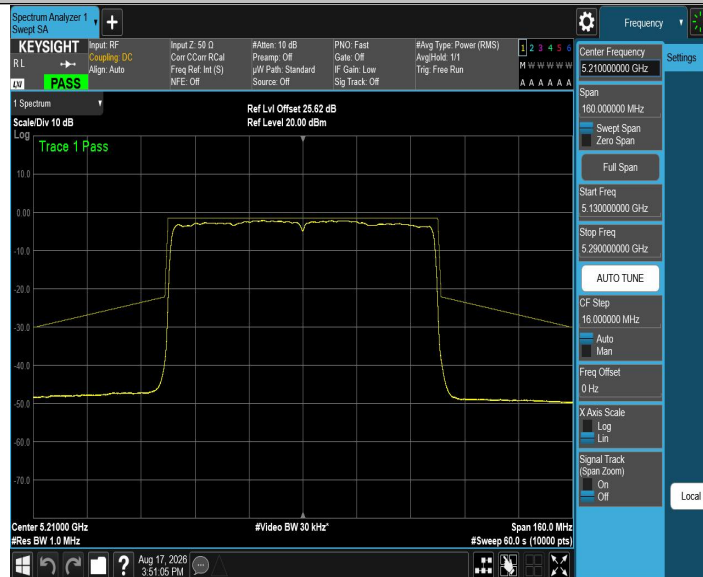


11AX40MIMO_Ant2_5670

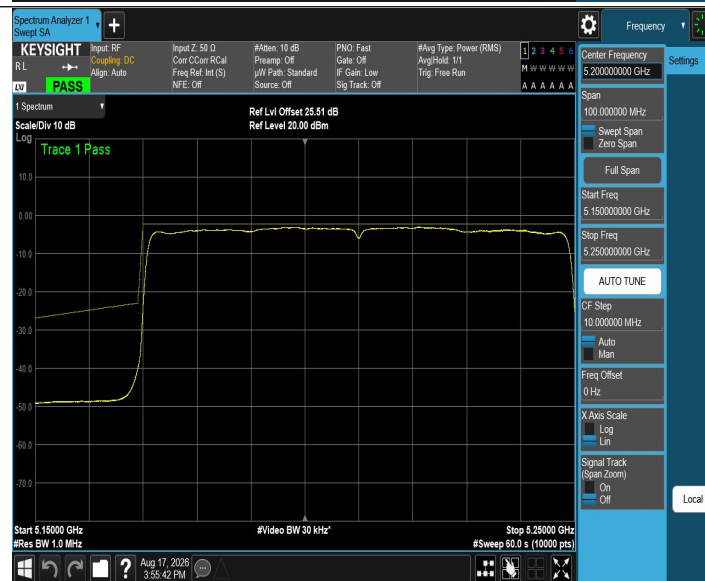
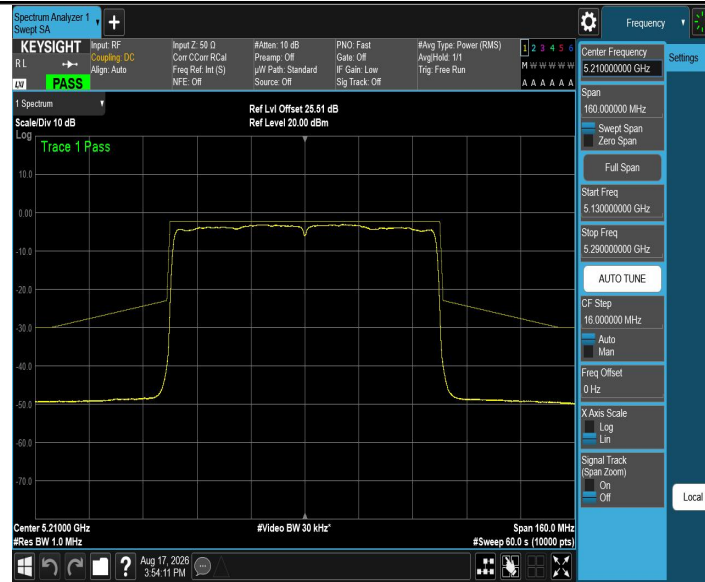




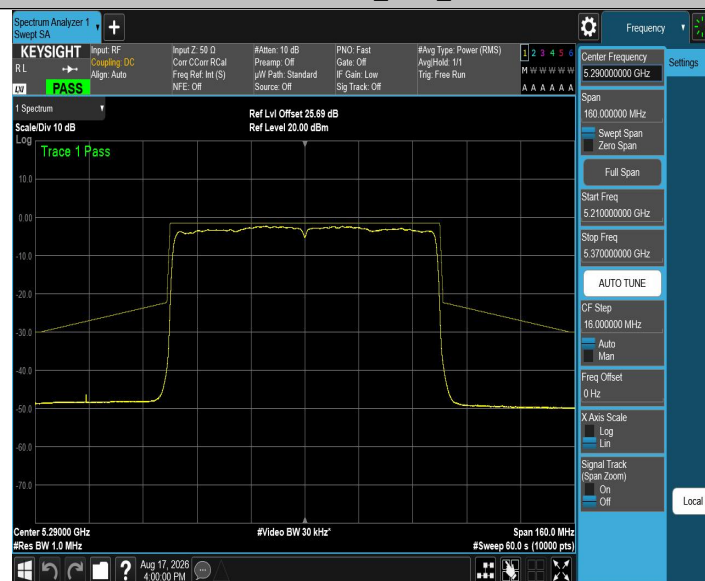
11AX80MIMO_Ant1_5210

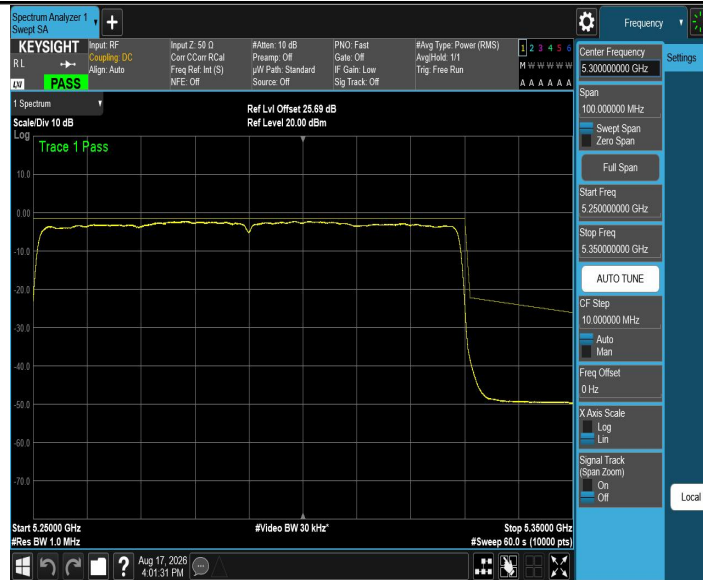


11AX80MIMO_Ant2_5210

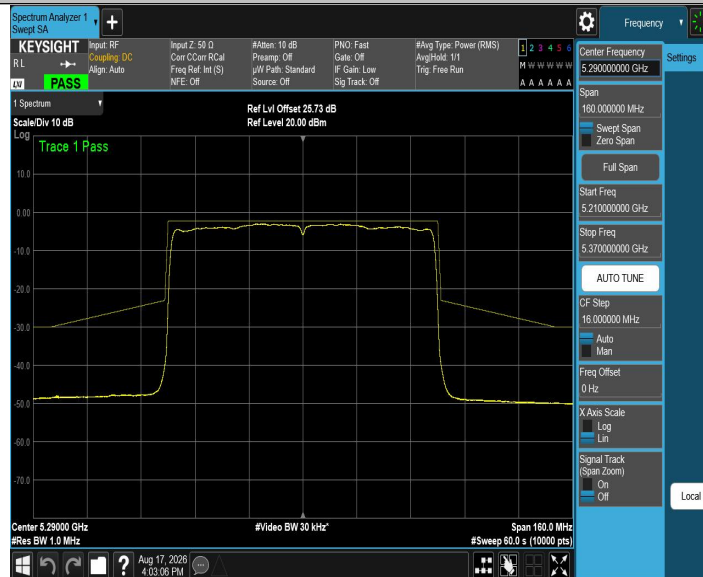


11AX80MIMO_Ant1_5290

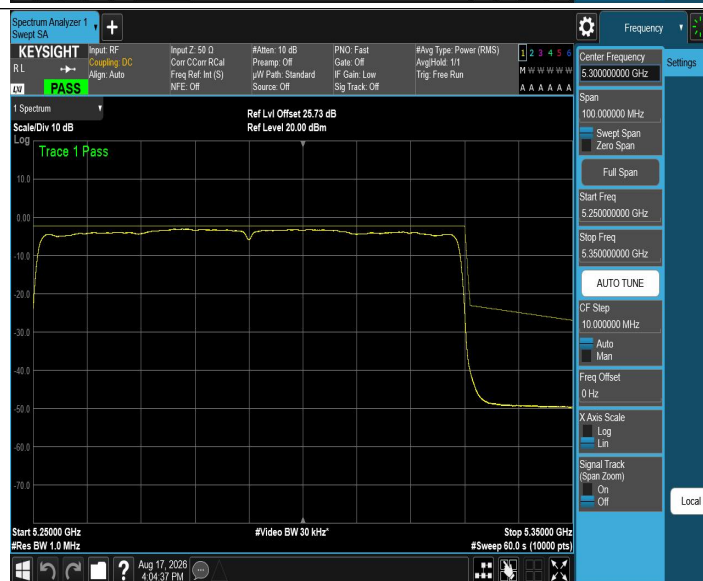


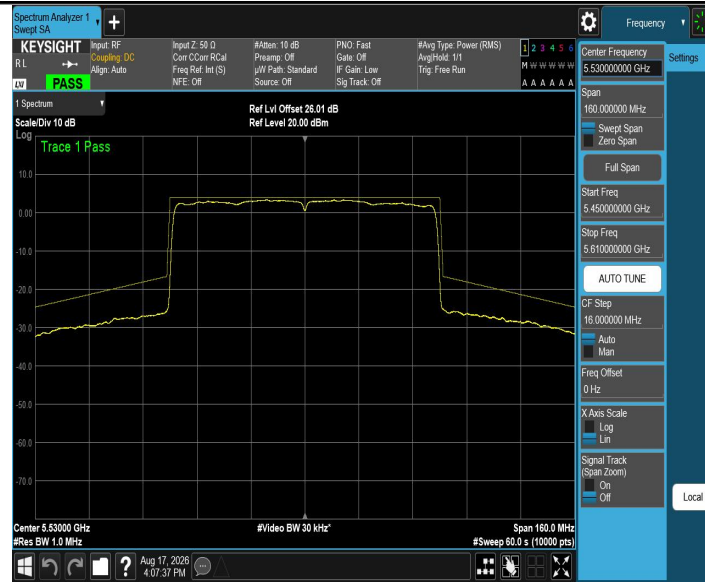


11AX80MIMO_Ant2_5290

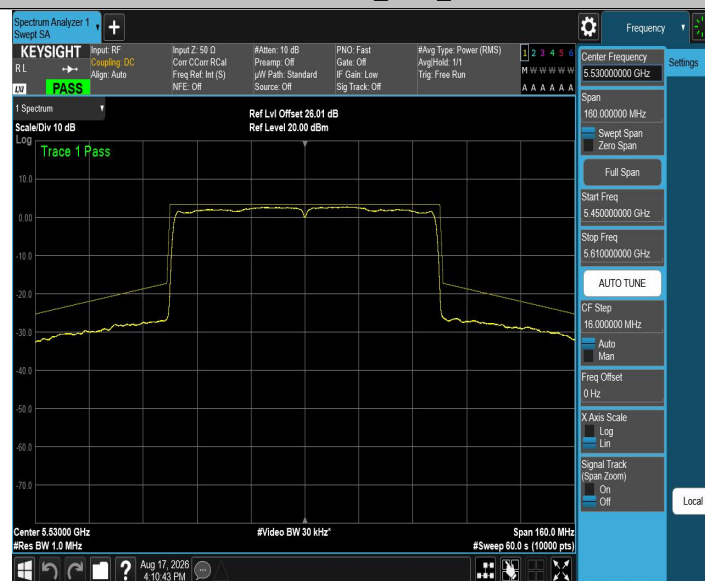


11AX80MIMO_Ant1_5530



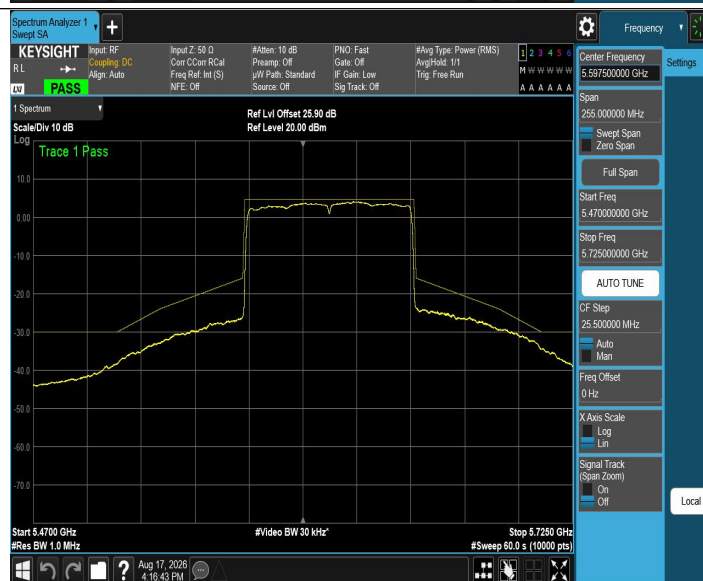
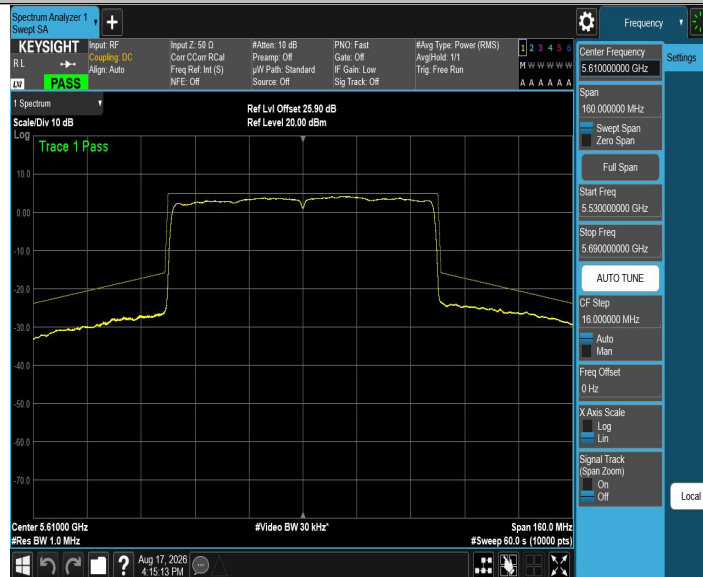


11AX80MIMO_Ant2_5530

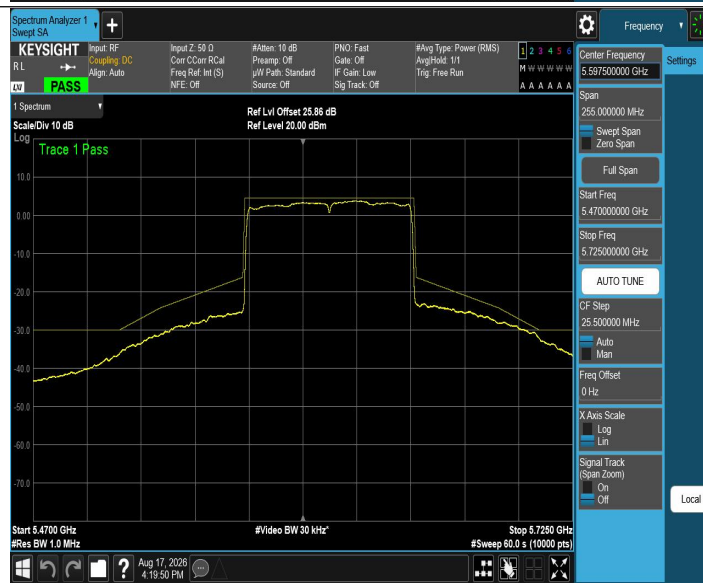
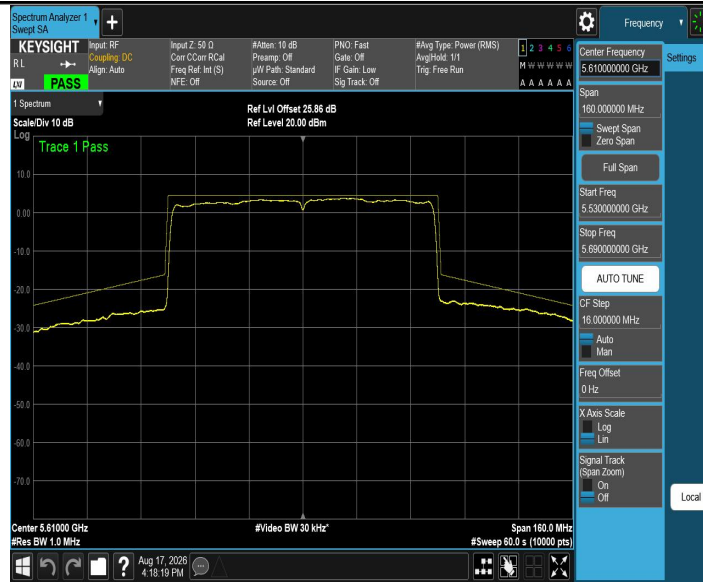




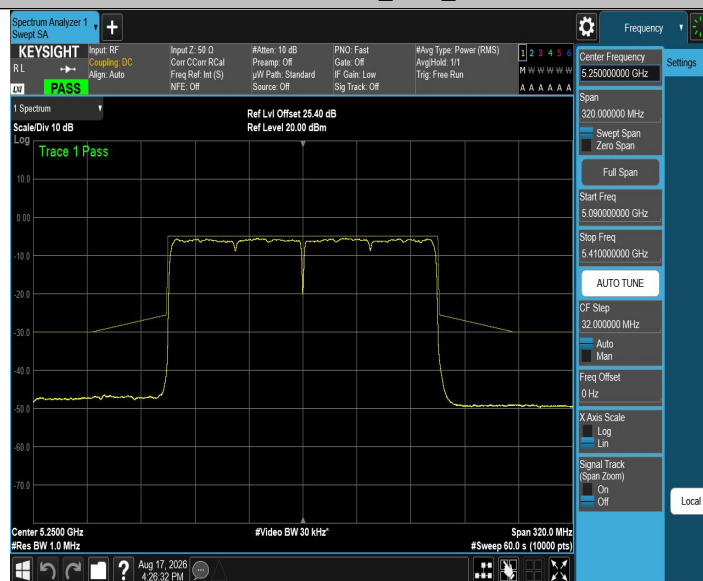
11AX80MIMO_Ant1_5610

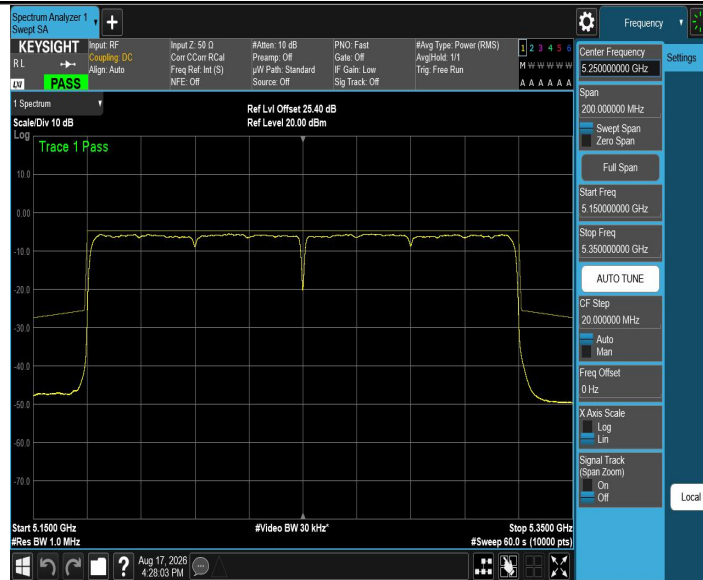


11AX80MIMO_Ant2_5610

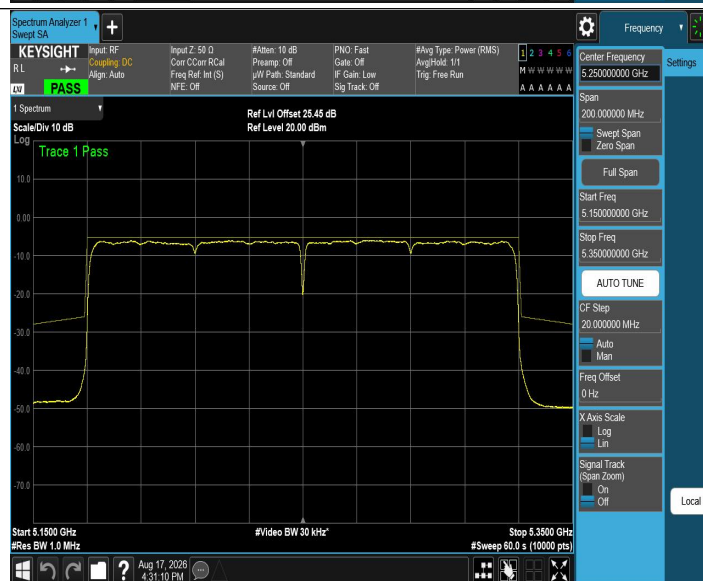
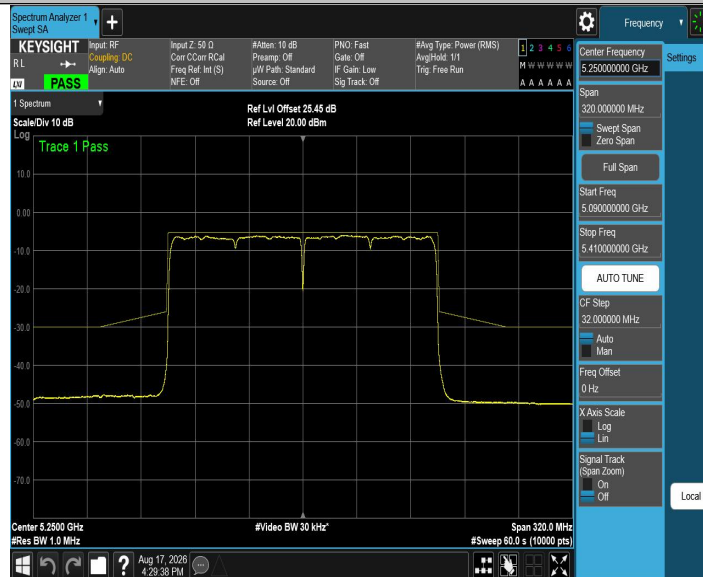


11AX160MIMO_Ant1_5250

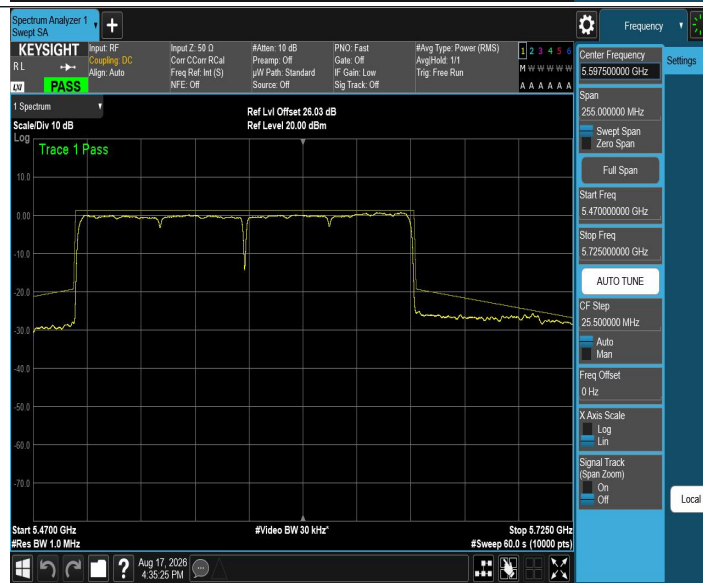
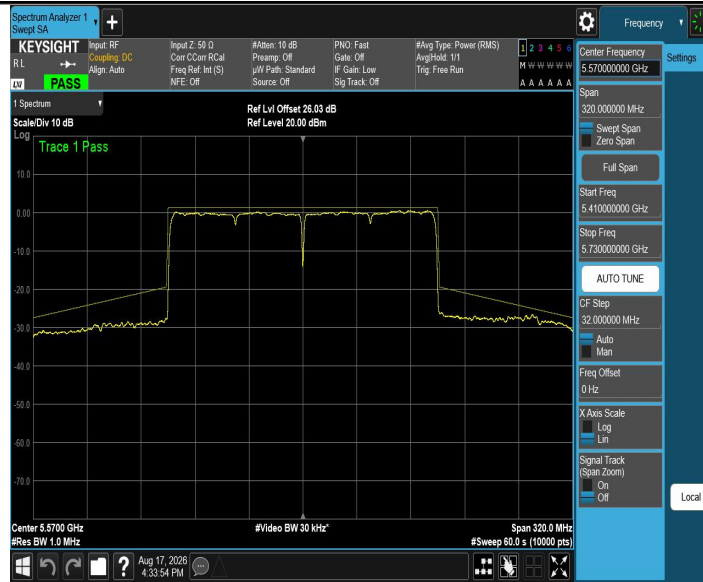




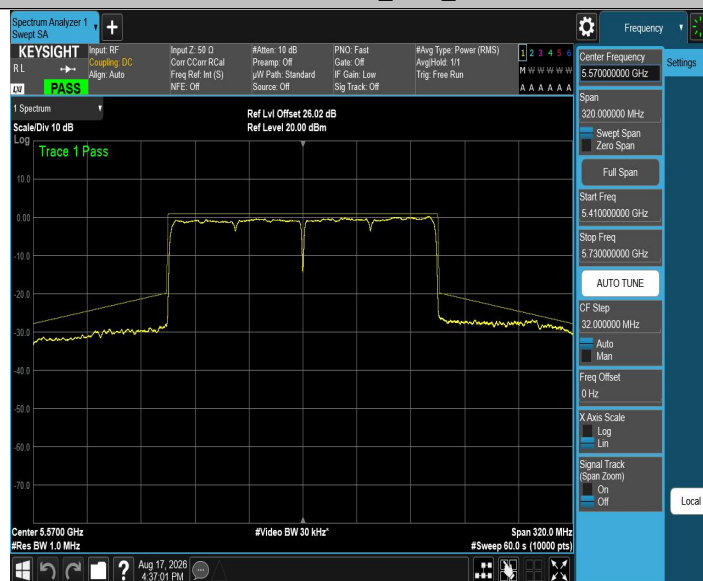
11AX160MIMO_Ant2_5250

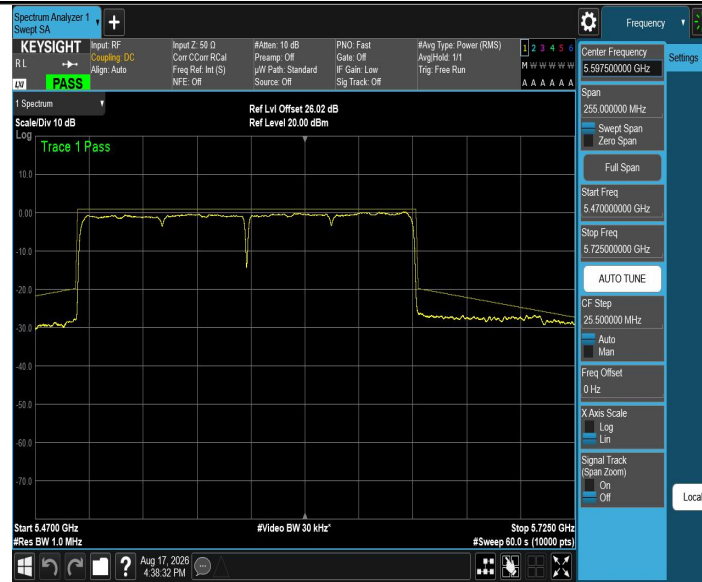


11AX160MIMO_Ant1_5570



11AX160MIMO_Ant2_5570





3.7 Receiver Spurious Emissions (Refer to clause 4.2.5)

3.7.1 Limit

Receiver Spurious Emissions Limit		
Frequency Range	Maximum Power	Measurement Bandwidth
30 MHz to 1 GHz	-57 dBm	100 kHz
1 GHz to 26 GHz	-47 dBm	1 MHz

3.7.2 Test Peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Record PC	Lenovo	M4000q	N/A

3.7.3 Test Procedure

Test Method	
☐ Conducted Measurement	☒ Radiated Measurement
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ● : Test ○ : No Test	

- l) The EUT was placed on the top of the turntable which the same height with the bi-log receiving antenna/ horn antenna in fully-anechoic chamber.
- m) The test shall be made in continuous receive mode. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- n) For spurious emissions measurement, the broad band bi-log receiving antenna was placed 3 meters far away from the turntable. (Below 1 GHz)
- o) For spurious emissions measurement, the receiving horn antenna was placed 3 meter far away from the turntable. (Above 1 GHz)
- p) Pre-scan with the spectrum analyzer settings as following:

30MHz ~1GHz	
Spectrum Analyzer	Setting
Start Frequency	30 MHz
Stop Frequency	1 GHz
RBW / VBW	100 kHz / 300 kHz
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Points	≥ 9 700
Sweep Time	Auto

1GHz~ 26GHz	
Spectrum Analyzer	Setting
Start Frequency	1 GHz
Stop Frequency	26 GHz
RBW / VBW	1 MHz / 3 MHz
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Points	≥ 25000
Sweep Time	Auto

q) Wait for the trace to stabilize. Any emissions identified that have a margin of less than 6 dB with respect to the limits given in clause 4.2.5.2, should be implement step g to step i.

r) spectrum analyzer settings of accurately measure as following:

Measurement mode	Time Domain Power
Centre Frequency	Frequency of the emission identified during the pre-scan
RBW	100 kHz (emissions < 1 GHz) / 1 MHz (emissions > 1 GHz)
VBW	300 kHz (emissions < 1 GHz) / 3 MHz (emissions > 1 GHz)
Frequency Span	Zero Span
Sweep mode	Single Sweep
Sweep time	30ms
Sweep Points	≥ 30000
Trigger	Video
Detector	RMS

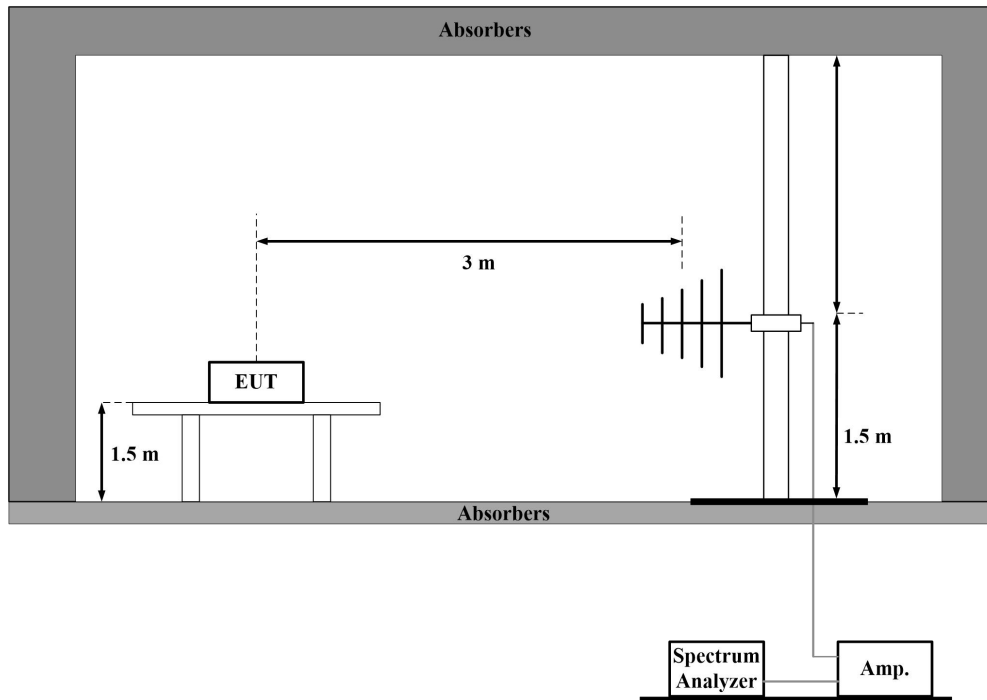
s) Adjust the centre frequency (fine tune) to capture the highest level of one burst of the emission to be measured.

t) Set a window where the start and stop indicators match the start and end of the burst with the highest level and record the value of the power measured within this window.

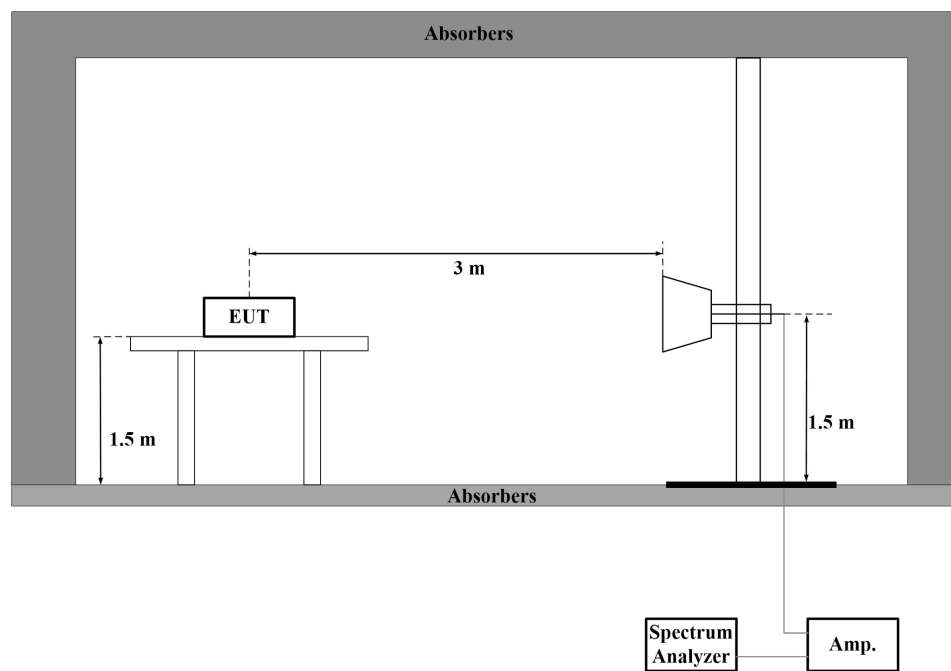
u) The value defined in step i shall be compared to the limits defined in clause 4.2.5.2

3.7.4 Test Configuration

Radiated measurement test set-up frequency below 1 GHz



Radiated measurement test set-up frequency above 1 GHz



3.7.5 Test Result of Radiated Unwanted Emissions

NOTE: The test results and plot for testing range of “30 MHz to 26 GHz” showed as below is part of the worst case for all Test Modes and Channels.

3.7.5.1 Test Result

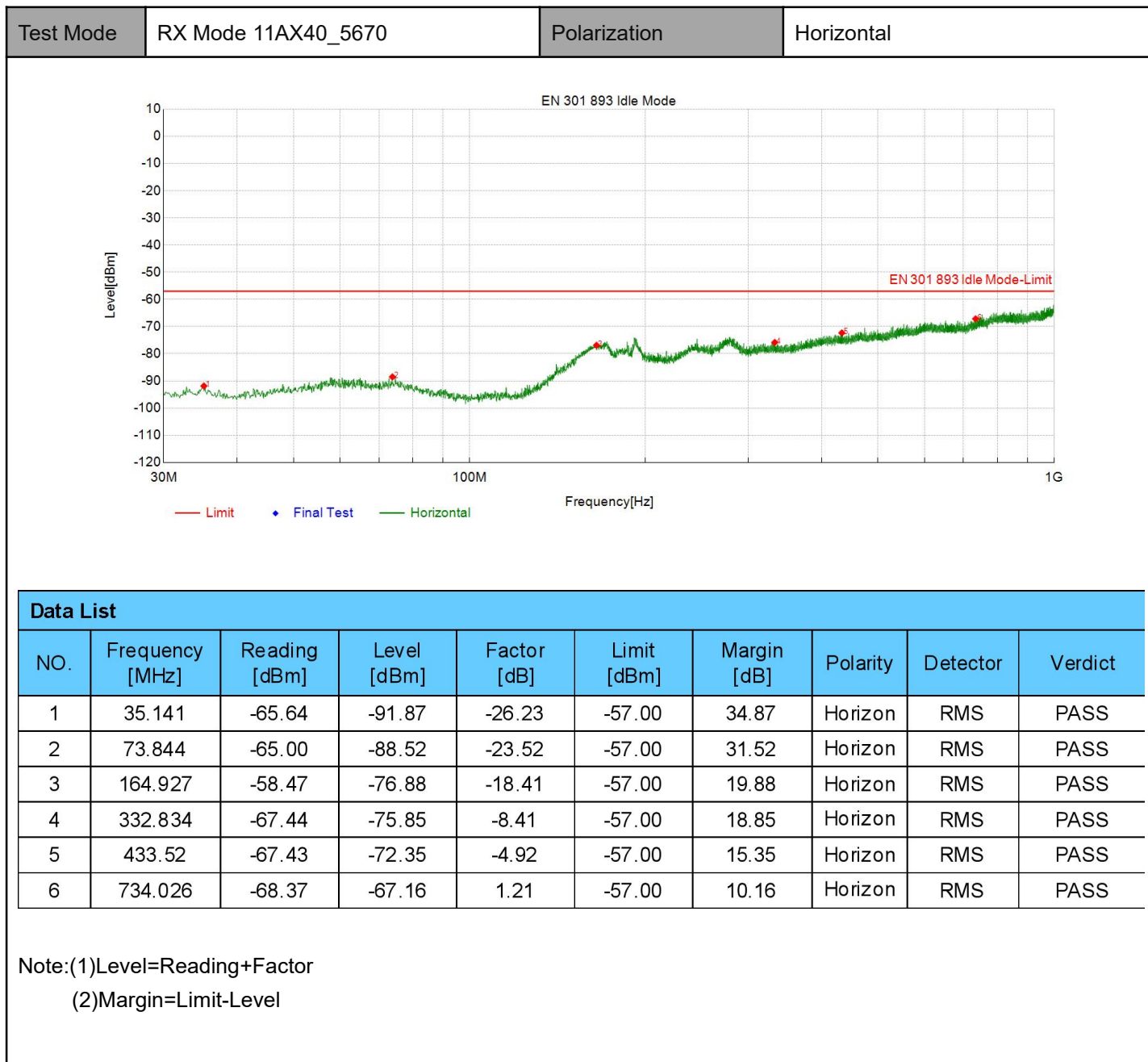
TestMode	Antenna	Test Channel (MHz)	Result [dBm]	Limit[dBm]	Verdict
11A-CDD	All	5180	See test graph	See test graph	PASS
11A-CDD	All	5320	See test graph	See test graph	PASS
11A-CDD	All	5500	See test graph	See test graph	PASS
11A-CDD	All	5700	See test graph	See test graph	PASS
11N20MIMO	All	5180	See test graph	See test graph	PASS
11N20MIMO	All	5320	See test graph	See test graph	PASS
11N20MIMO	All	5500	See test graph	See test graph	PASS
11N20MIMO	All	5700	See test graph	See test graph	PASS
11N40MIMO	All	5190	See test graph	See test graph	PASS
11N40MIMO	All	5310	See test graph	See test graph	PASS
11N40MIMO	All	5510	See test graph	See test graph	PASS
11N40MIMO	All	5670	See test graph	See test graph	PASS
11AC20MIMO	All	5180	See test graph	See test graph	PASS
11AC20MIMO	All	5320	See test graph	See test graph	PASS
11AC20MIMO	All	5500	See test graph	See test graph	PASS
11AC20MIMO	All	5700	See test graph	See test graph	PASS
11AC40MIMO	All	5190	See test graph	See test graph	PASS
11AC40MIMO	All	5310	See test graph	See test graph	PASS
11AC40MIMO	All	5510	See test graph	See test graph	PASS
11AC40MIMO	All	5670	See test graph	See test graph	PASS
11AC80MIMO	All	5210	See test graph	See test graph	PASS
11AC80MIMO	All	5290	See test graph	See test graph	PASS
11AC80MIMO	All	5530	See test graph	See test graph	PASS
11AC80MIMO	All	5610	See test graph	See test graph	PASS
11AC160MIMO	All	5250	See test graph	See test graph	PASS
11AC160MIMO	All	5570	See test graph	See test graph	PASS
11AX20MIMO	All	5180	See test graph	See test graph	PASS
11AX20MIMO	All	5320	See test graph	See test graph	PASS
11AX20MIMO	All	5500	See test graph	See test graph	PASS
11AX20MIMO	All	5700	See test graph	See test graph	PASS
11AX40MIMO	All	5190	See test graph	See test graph	PASS
11AX40MIMO	All	5310	See test graph	See test graph	PASS
11AX40MIMO	All	5510	See test graph	See test graph	PASS
11AX40MIMO	All	5670	See test graph	See test graph	PASS
11AX80MIMO	All	5210	See test graph	See test graph	PASS
11AX80MIMO	All	5290	See test graph	See test graph	PASS

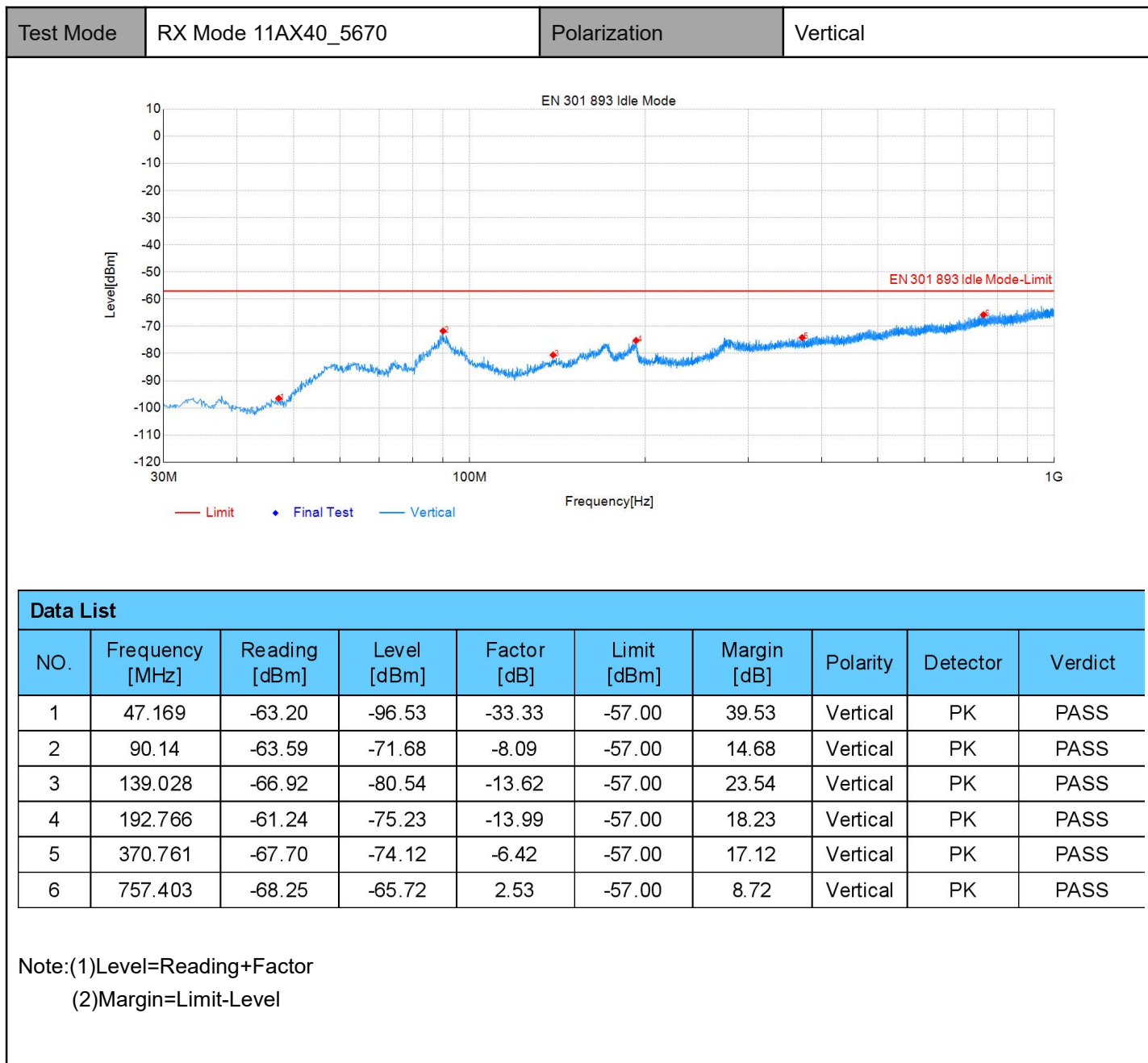
11AX80MIMO	All	5530	See test graph	See test graph	PASS
11AX80MIMO	All	5610	See test graph	See test graph	PASS
11AX160MIMO	All	5250	See test graph	See test graph	PASS
11AX160MIMO	All	5570	See test graph	See test graph	PASS

Note:1.By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that “X axis” position was the worst, and test data recorded in this report.

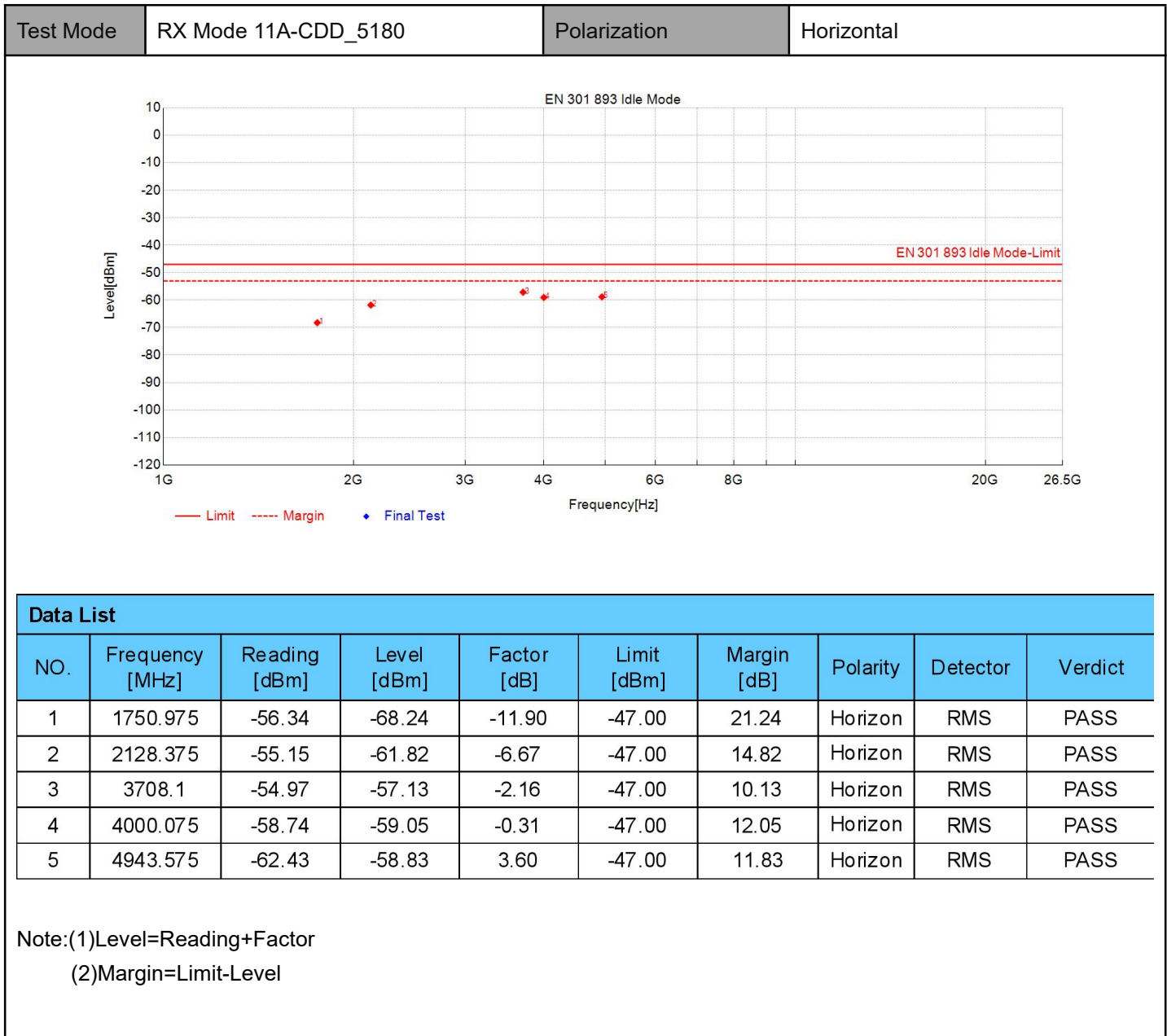
3.7.5.2 Test Graphs

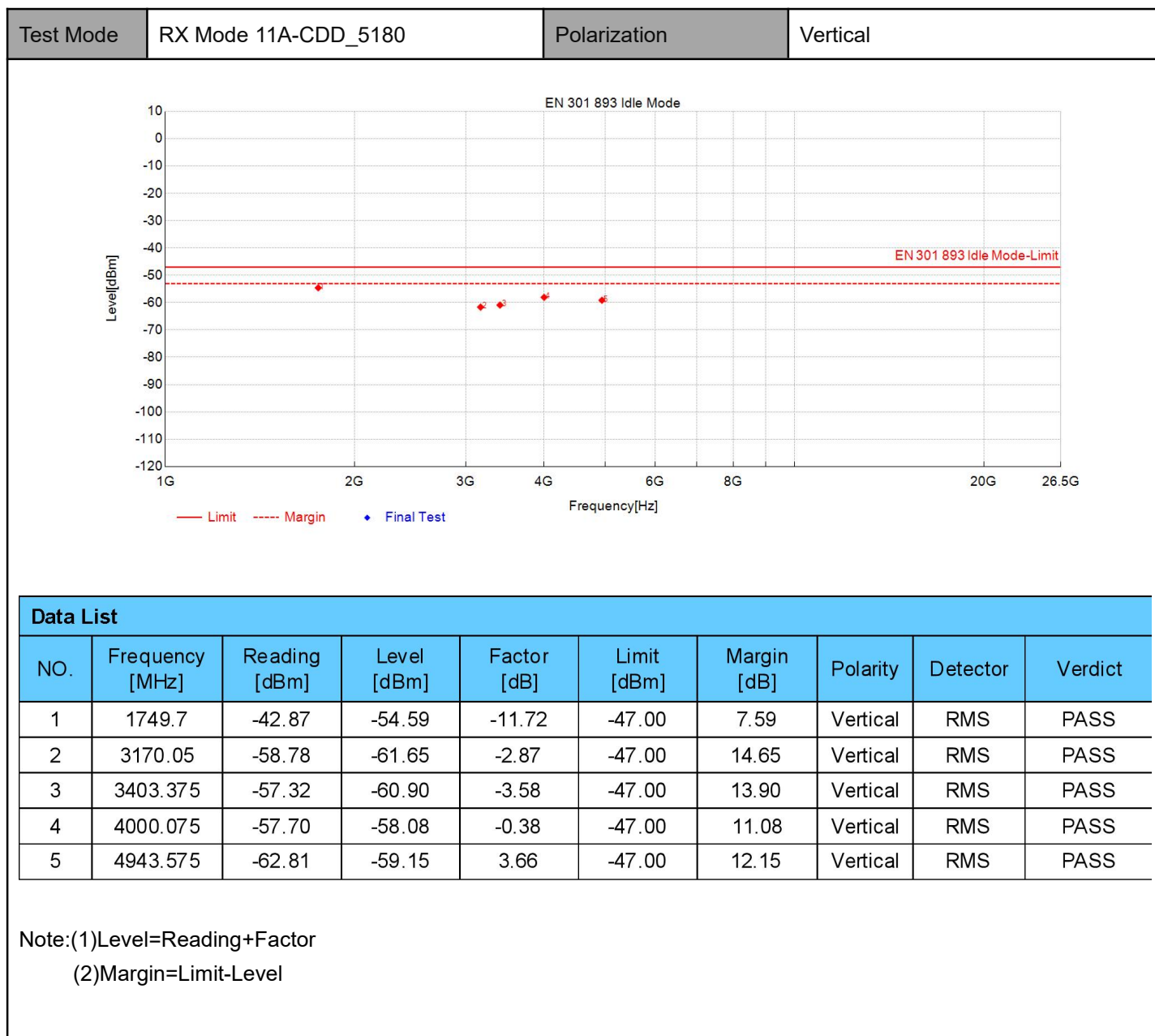
30 MHz to 1 GHz



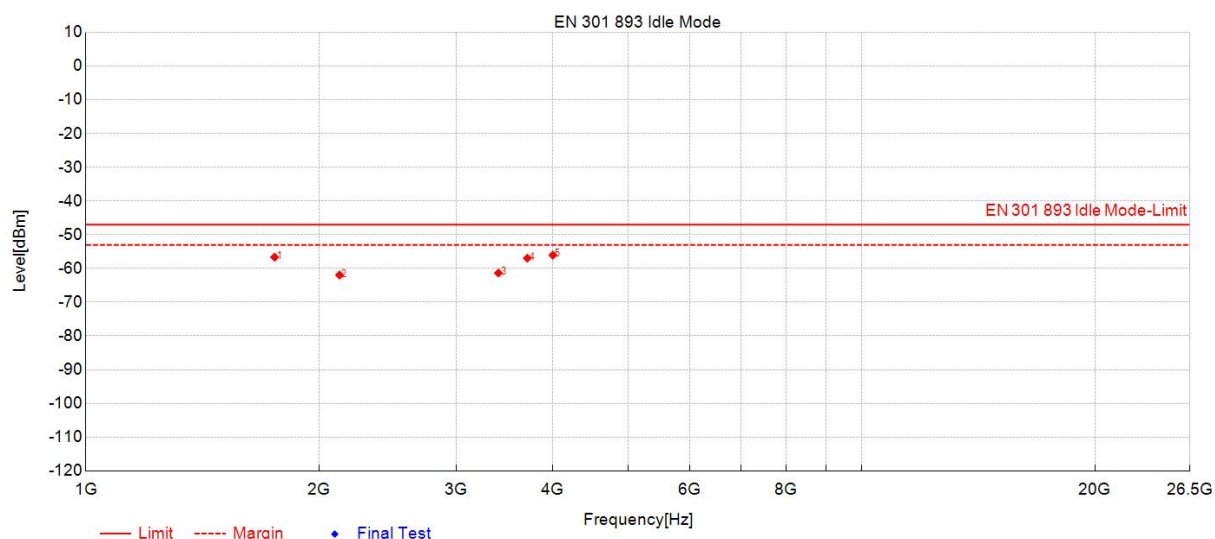


1 GHz to 26 GHz :





Test Mode	RX Mode 11A-CDD_5320	Polarization	Horizontal
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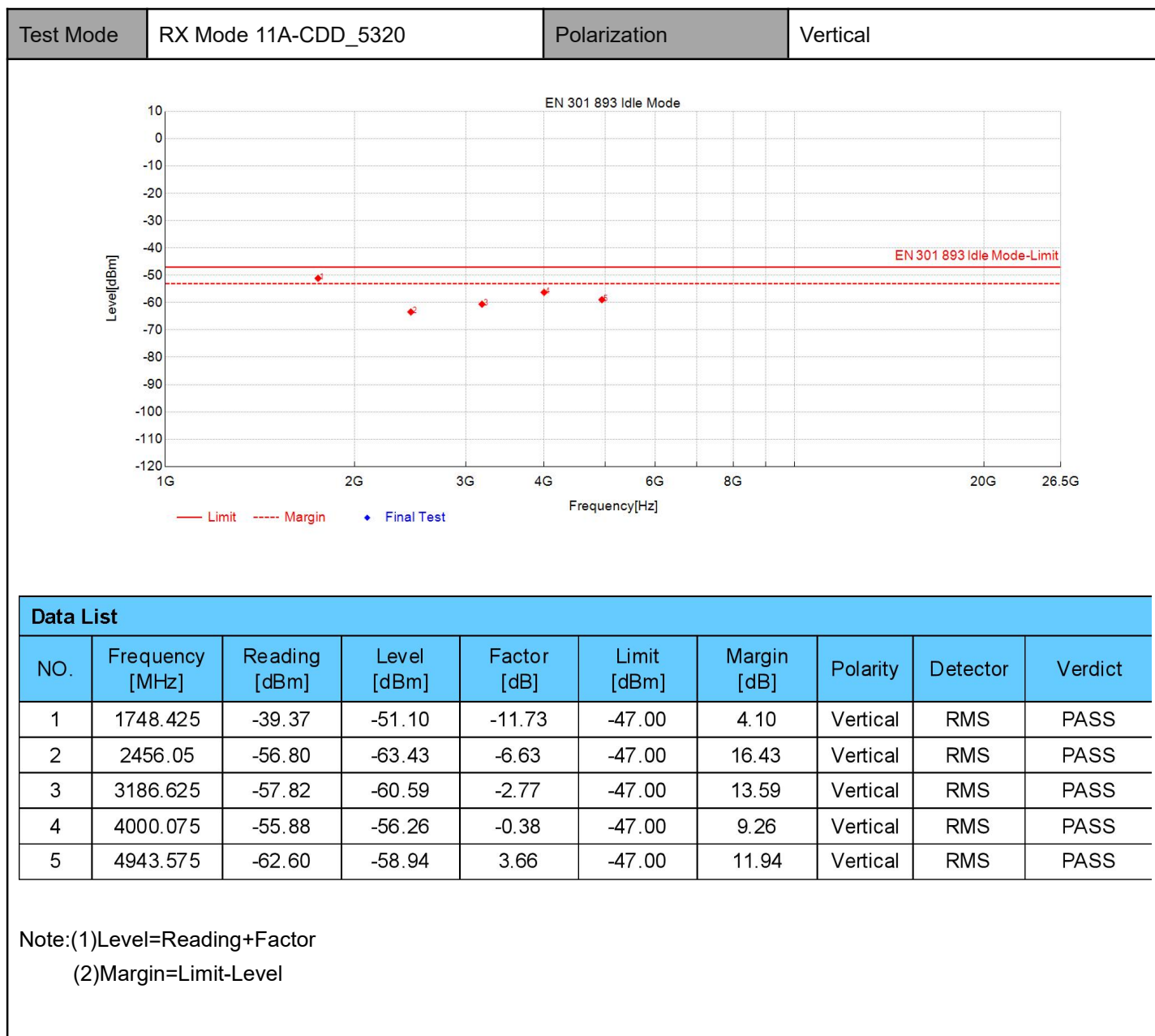


Data List

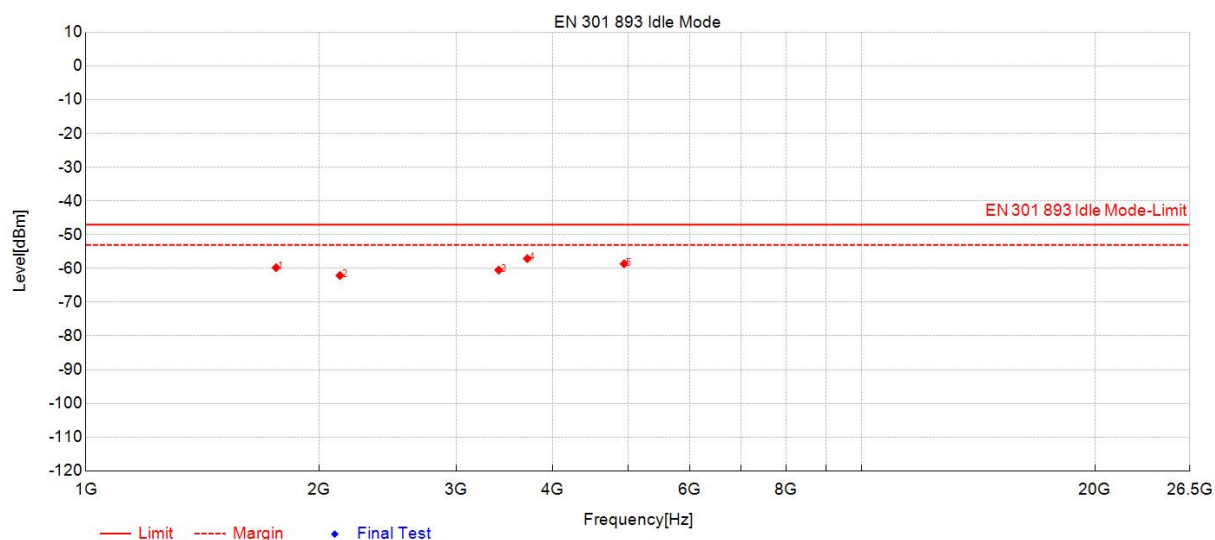
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1750.975	-44.75	-56.65	-11.90	-47.00	9.65	Horizon	RMS	PASS
2	2123.275	-55.29	-61.95	-6.66	-47.00	14.95	Horizon	RMS	PASS
3	3403.375	-57.83	-61.34	-3.51	-47.00	14.34	Horizon	RMS	PASS
4	3708.1	-54.80	-56.96	-2.16	-47.00	9.96	Horizon	RMS	PASS
5	4000.075	-55.74	-56.05	-0.31	-47.00	9.05	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11A-CDD_5500	Polarization	Horizontal
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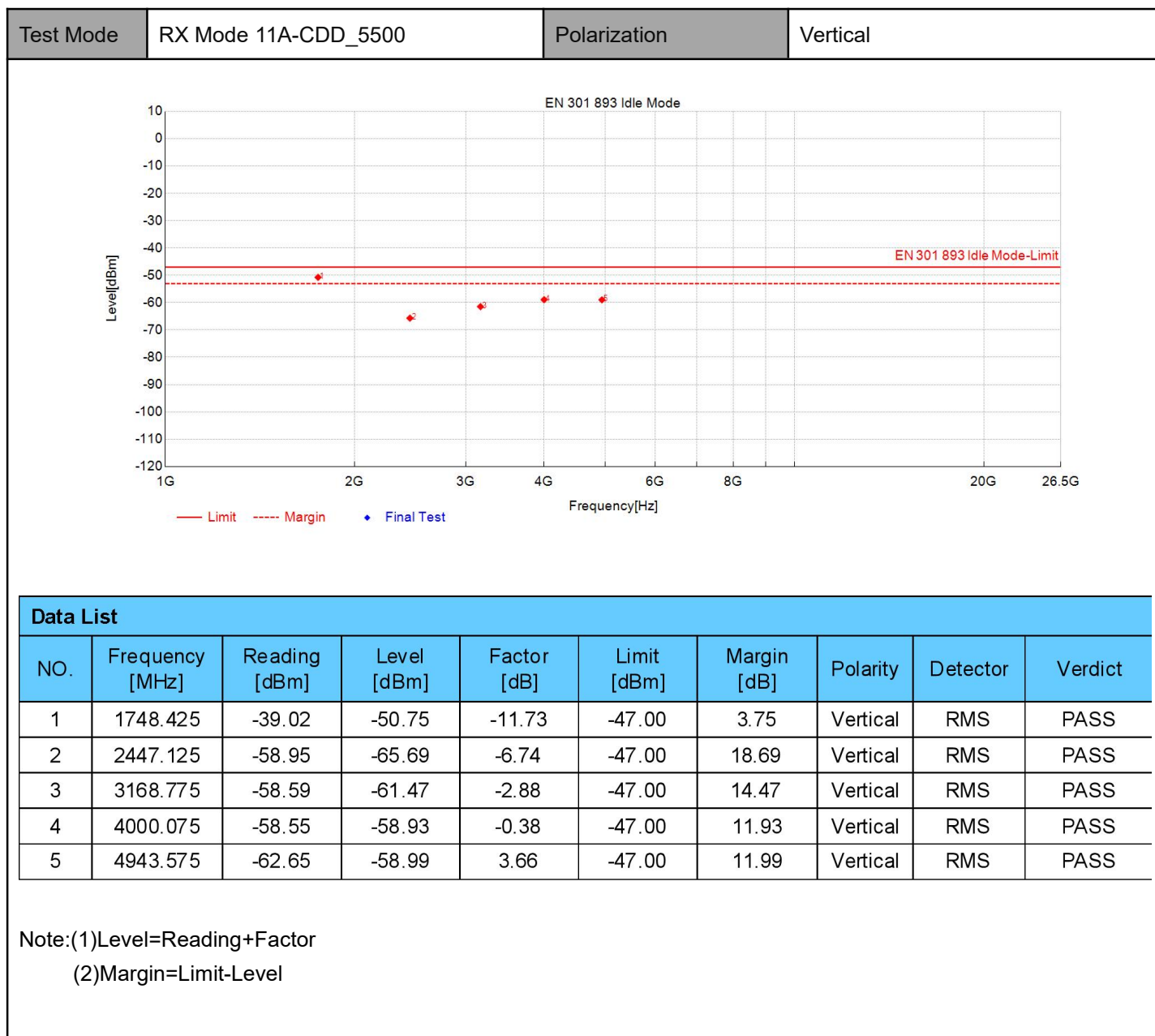


Data List

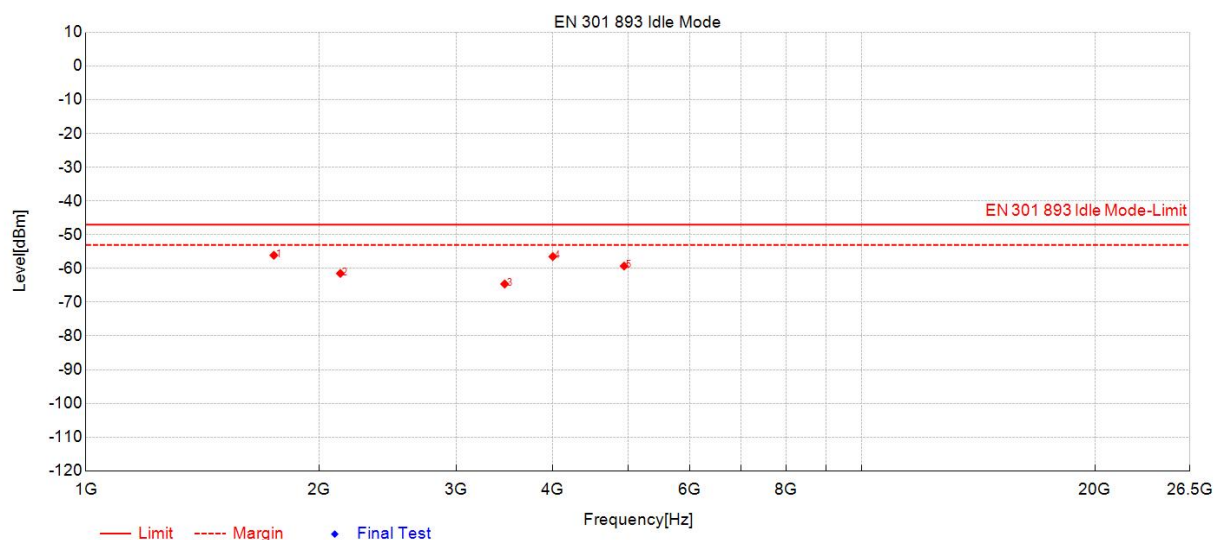
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1758.625	-47.87	-59.75	-11.88	-47.00	12.75	Horizon	RMS	PASS
2	2125.825	-55.43	-62.09	-6.66	-47.00	15.09	Horizon	RMS	PASS
3	3407.2	-56.98	-60.49	-3.51	-47.00	13.49	Horizon	RMS	PASS
4	3708.1	-54.92	-57.08	-2.16	-47.00	10.08	Horizon	RMS	PASS
5	4943.575	-62.22	-58.62	3.60	-47.00	11.62	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11A-CDD_5700	Polarization	Horizontal
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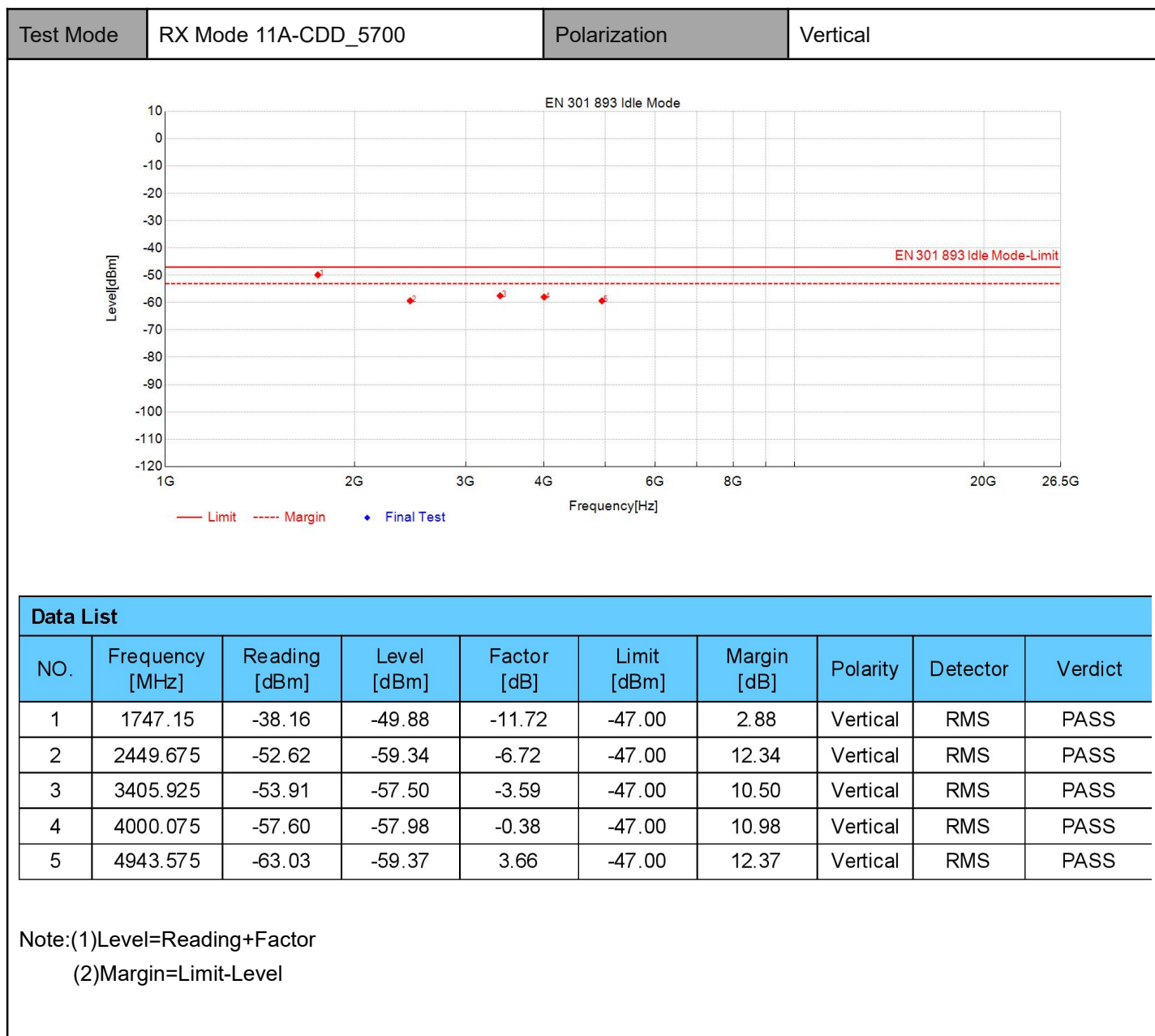


Data List

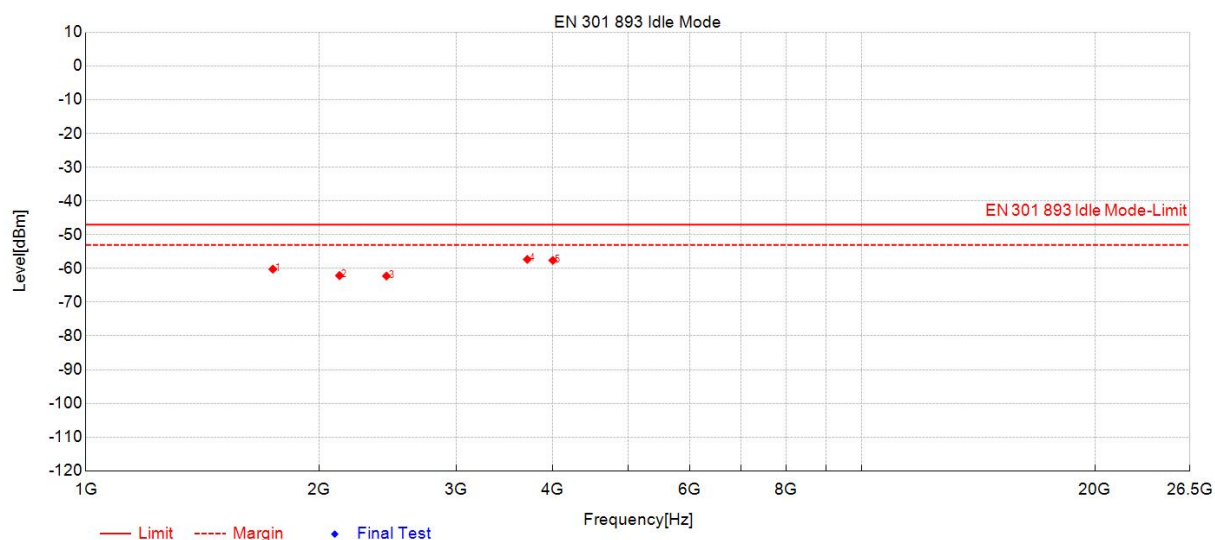
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1747.15	-44.18	-56.08	-11.90	-47.00	9.08	Horizon	RMS	PASS
2	2128.375	-54.79	-61.46	-6.67	-47.00	14.46	Horizon	RMS	PASS
3	3467.125	-61.09	-64.60	-3.51	-47.00	17.60	Horizon	RMS	PASS
4	4000.075	-56.15	-56.46	-0.31	-47.00	9.46	Horizon	RMS	PASS
5	4943.575	-62.88	-59.28	3.60	-47.00	12.28	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11N20MIMO_5180	Polarization	Horizontal
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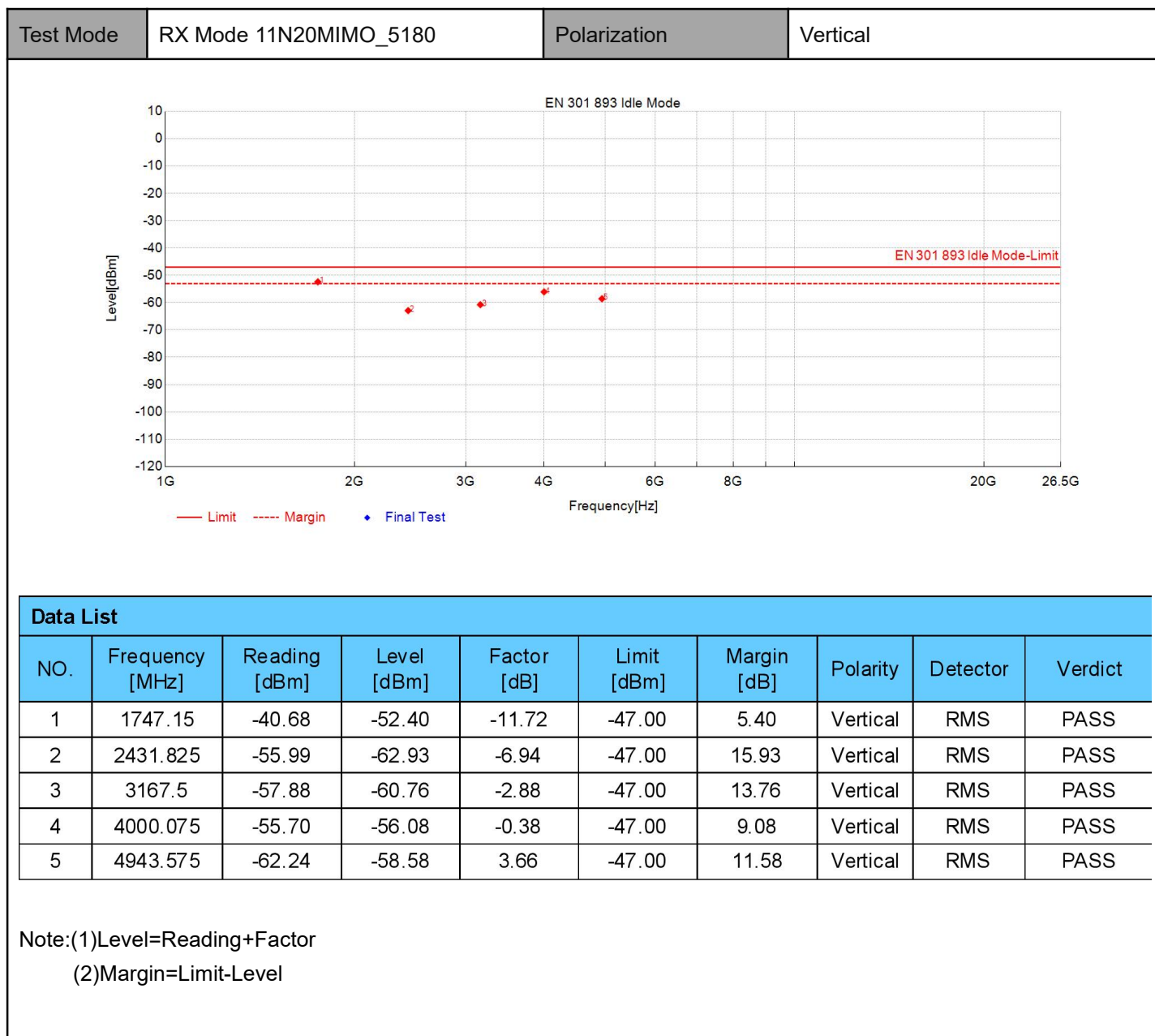


Data List

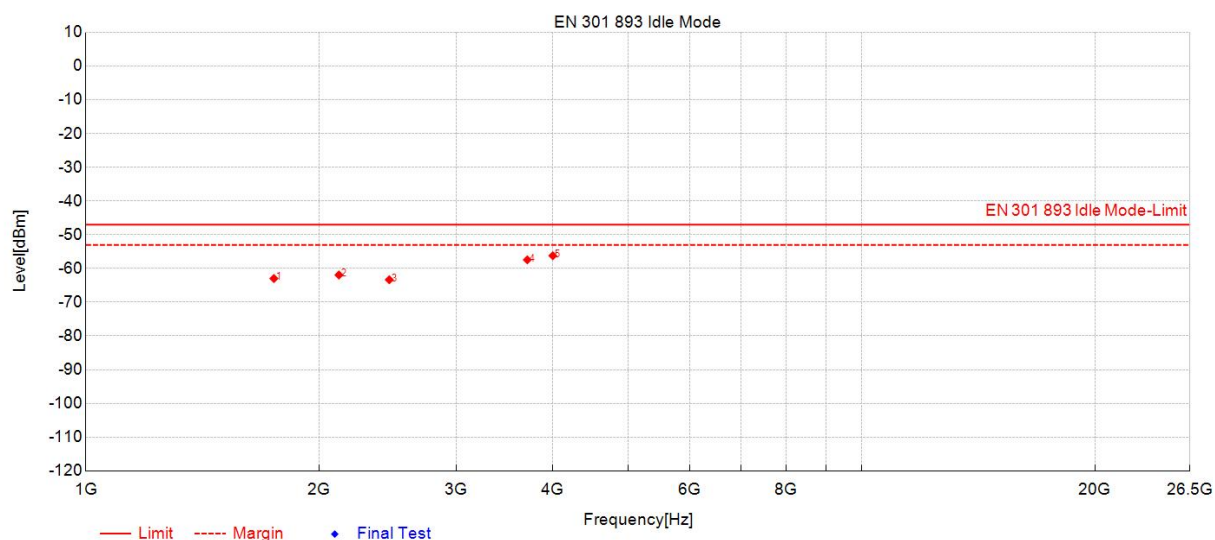
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1742.05	-48.28	-60.20	-11.92	-47.00	13.20	Horizon	RMS	PASS
2	2123.275	-55.45	-62.11	-6.66	-47.00	15.11	Horizon	RMS	PASS
3	2440.75	-55.72	-62.23	-6.51	-47.00	15.23	Horizon	RMS	PASS
4	3708.1	-55.15	-57.31	-2.16	-47.00	10.31	Horizon	RMS	PASS
5	4000.075	-57.29	-57.60	-0.31	-47.00	10.60	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11N20MIMO_5320	Polarization	Horizontal
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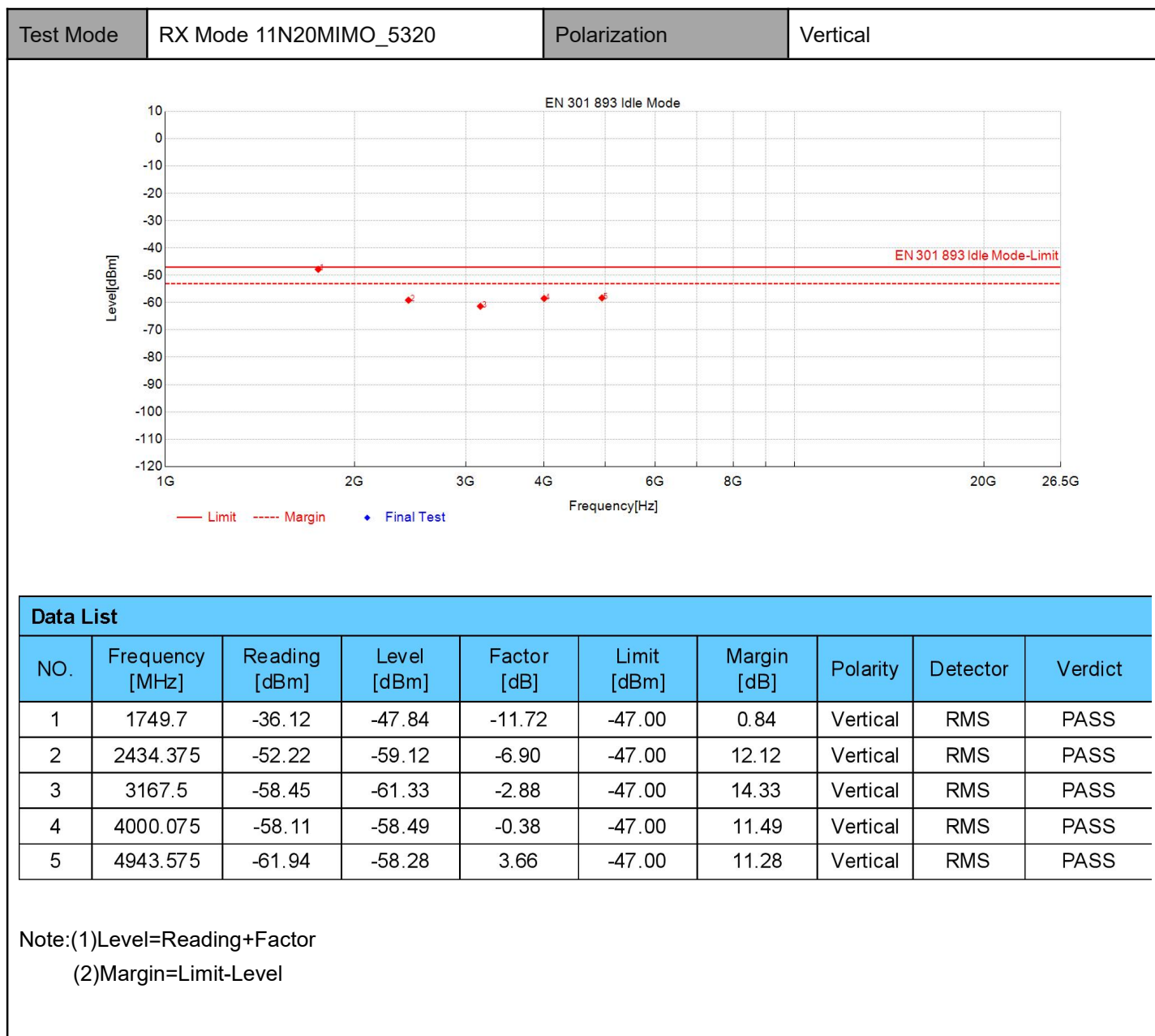


Data List

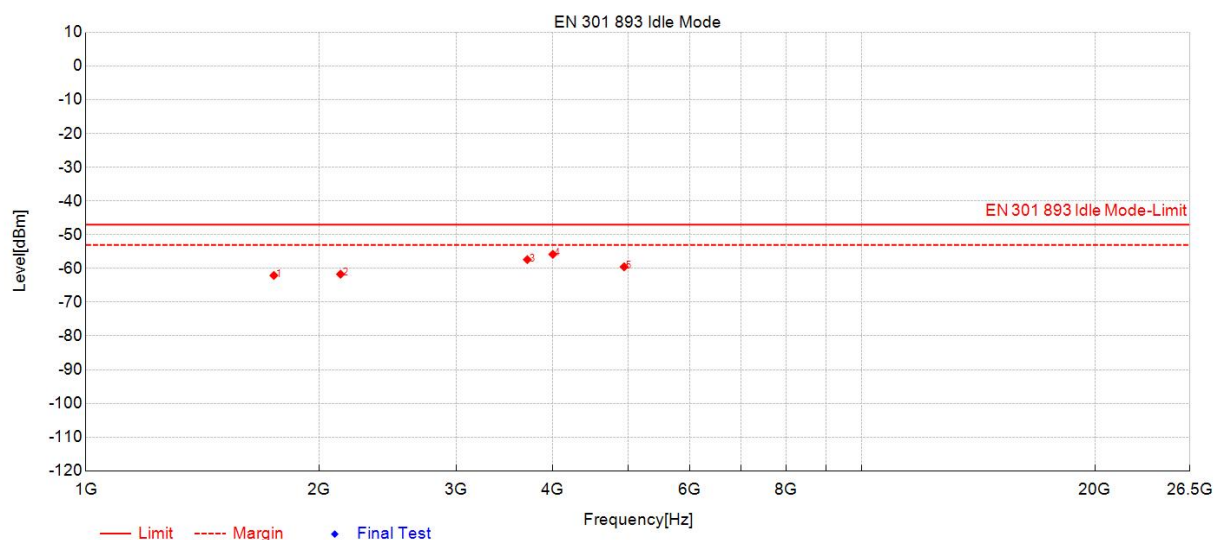
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1747.15	-51.07	-62.97	-11.90	-47.00	15.97	Horizon	RMS	PASS
2	2119.45	-55.28	-61.93	-6.65	-47.00	14.93	Horizon	RMS	PASS
3	2461.15	-56.94	-63.33	-6.39	-47.00	16.33	Horizon	RMS	PASS
4	3708.1	-55.28	-57.44	-2.16	-47.00	10.44	Horizon	RMS	PASS
5	4000.075	-55.92	-56.23	-0.31	-47.00	9.23	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11N20MIMO_5500	Polarization	Horizontal
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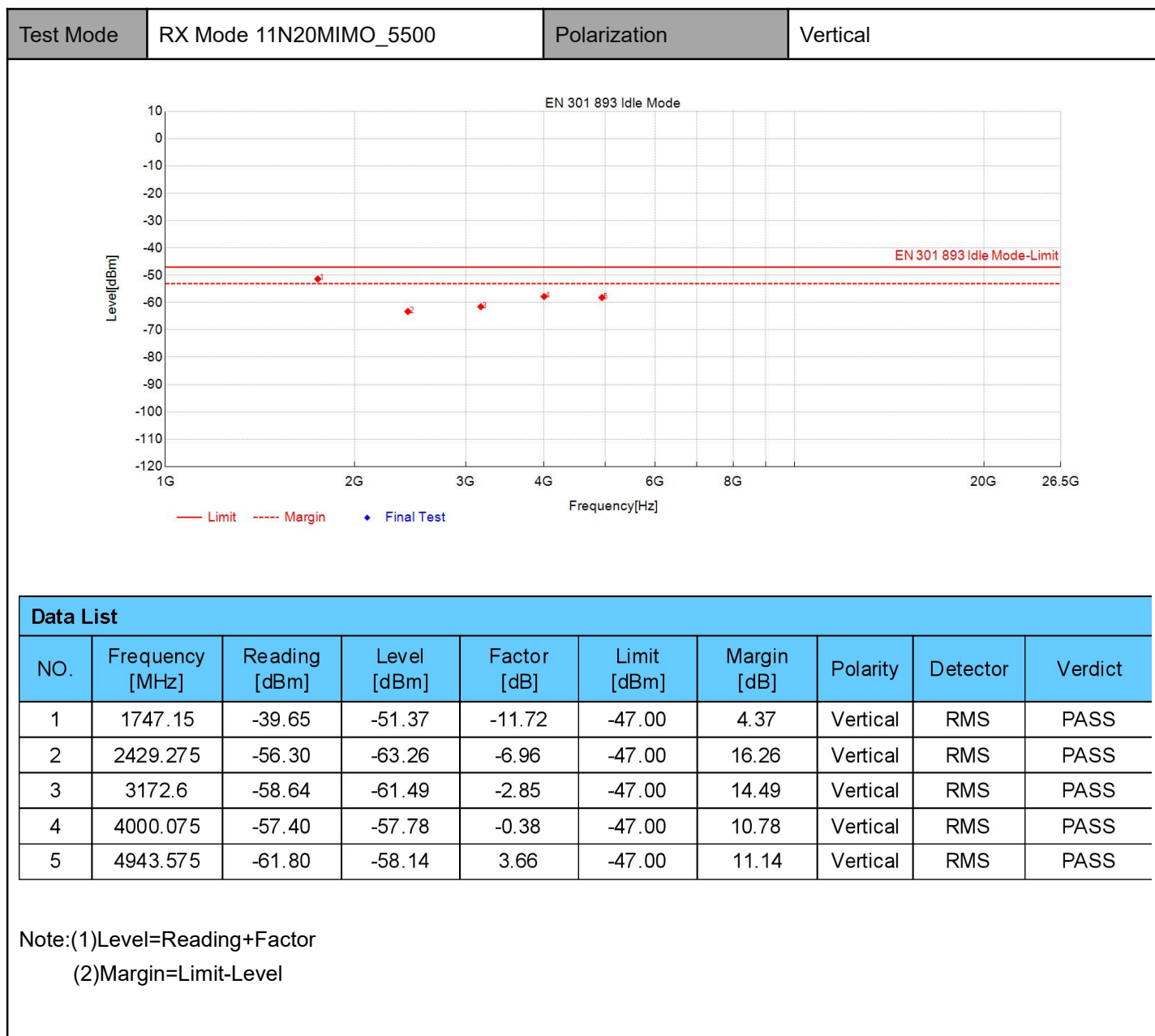


Data List

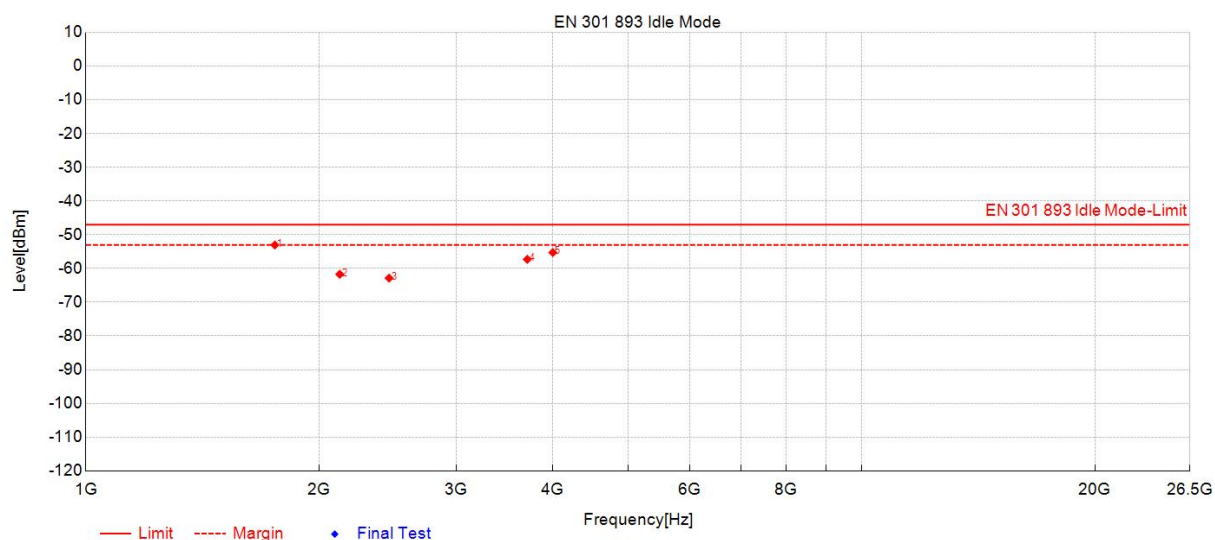
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1747.15	-50.16	-62.06	-11.90	-47.00	15.06	Horizon	RMS	PASS
2	2129.65	-55.01	-61.69	-6.68	-47.00	14.69	Horizon	RMS	PASS
3	3708.1	-55.21	-57.37	-2.16	-47.00	10.37	Horizon	RMS	PASS
4	4000.075	-55.49	-55.80	-0.31	-47.00	8.80	Horizon	RMS	PASS
5	4943.575	-63.11	-59.51	3.60	-47.00	12.51	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11N20MIMO_5700	Polarization	Horizontal
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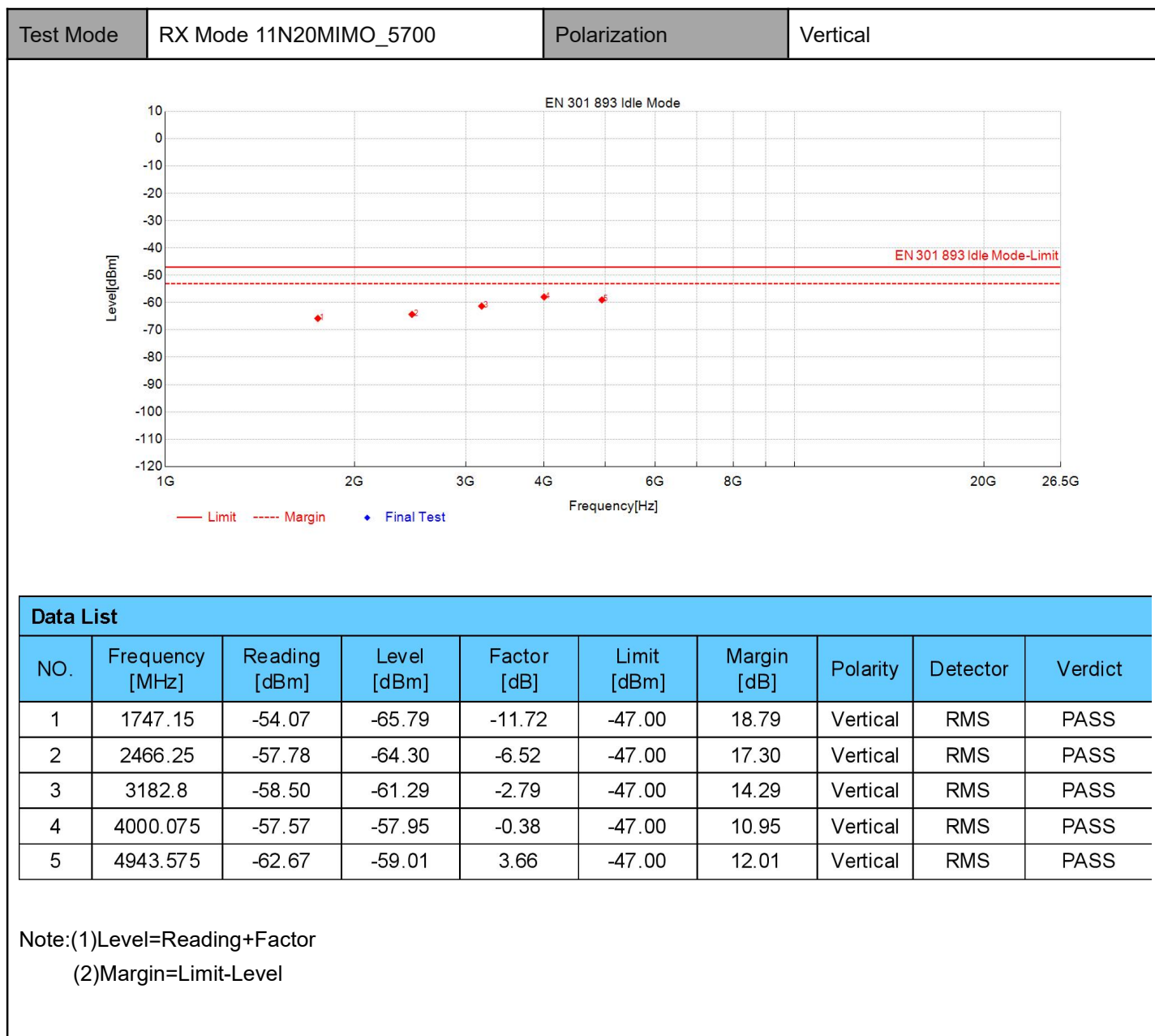


Data List

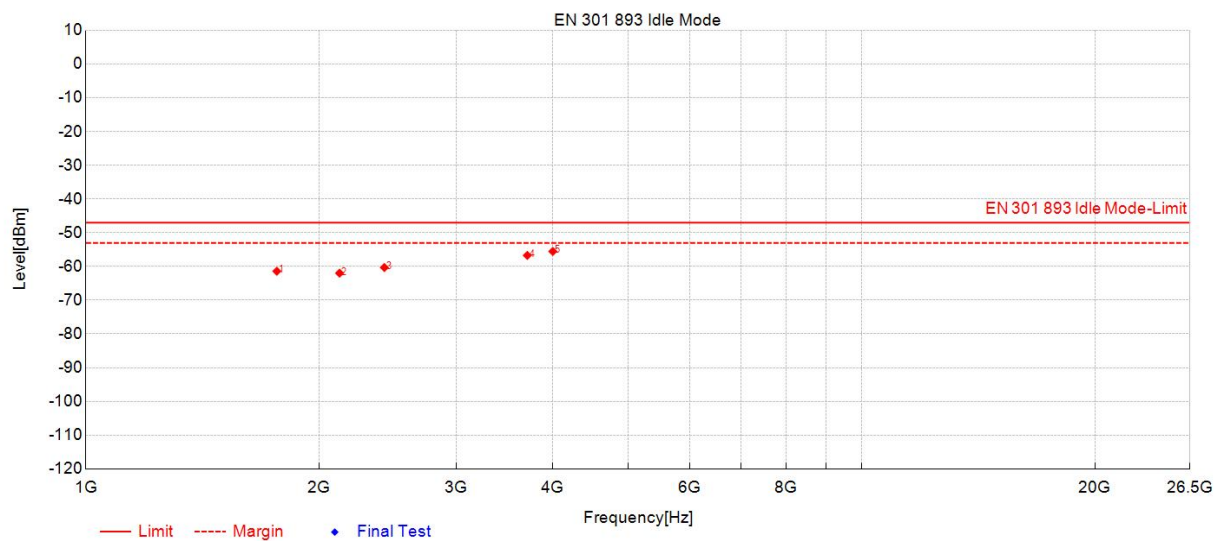
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1752.25	-41.13	-53.03	-11.90	-47.00	6.03	Horizon	RMS	PASS
2	2124.55	-55.06	-61.72	-6.66	-47.00	14.72	Horizon	RMS	PASS
3	2459.875	-56.45	-62.85	-6.40	-47.00	15.85	Horizon	RMS	PASS
4	3708.1	-55.13	-57.29	-2.16	-47.00	10.29	Horizon	RMS	PASS
5	4000.075	-54.95	-55.26	-0.31	-47.00	8.26	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11N40MIMO_5190	Polarization	Horizontal
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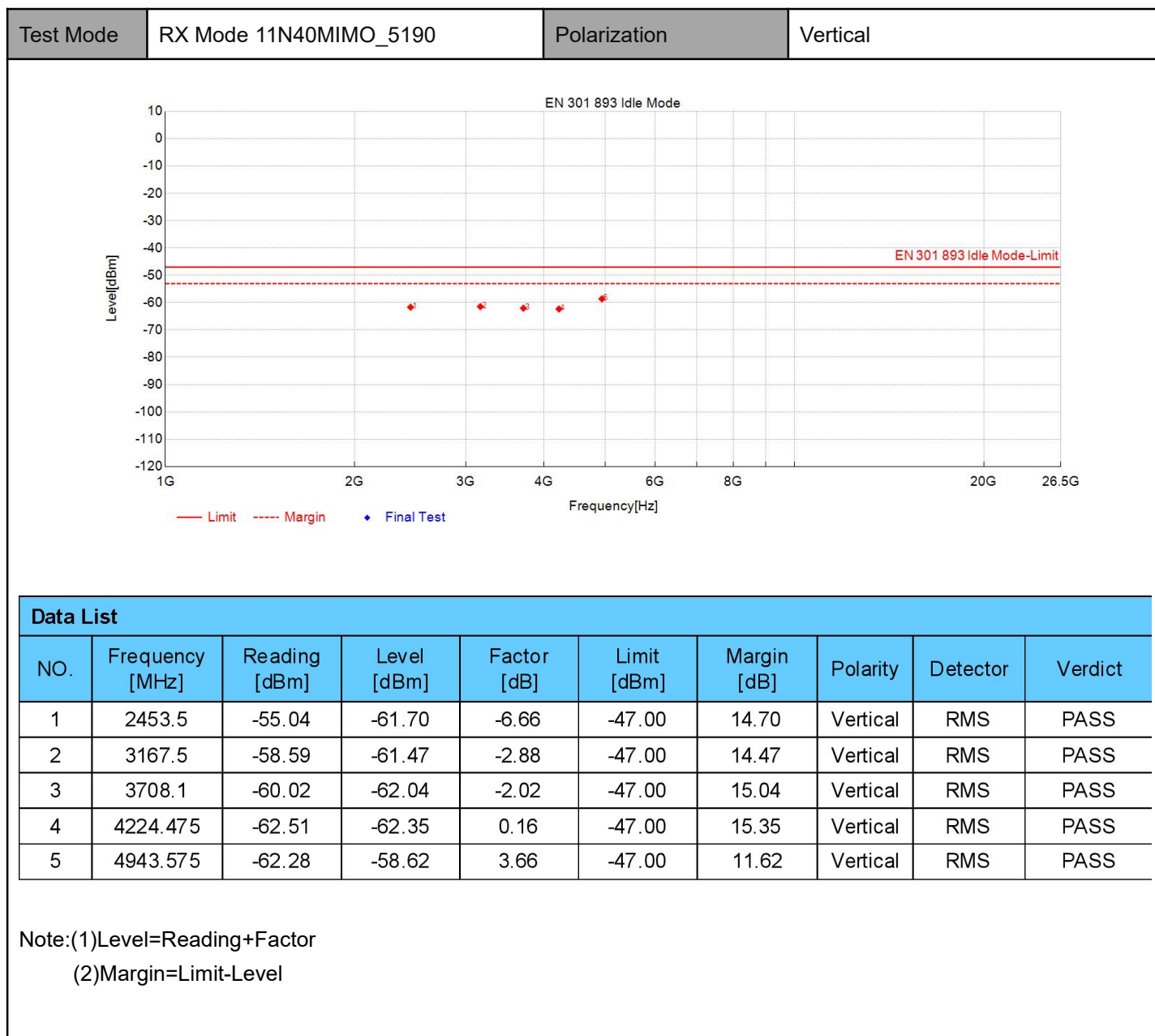


Data List

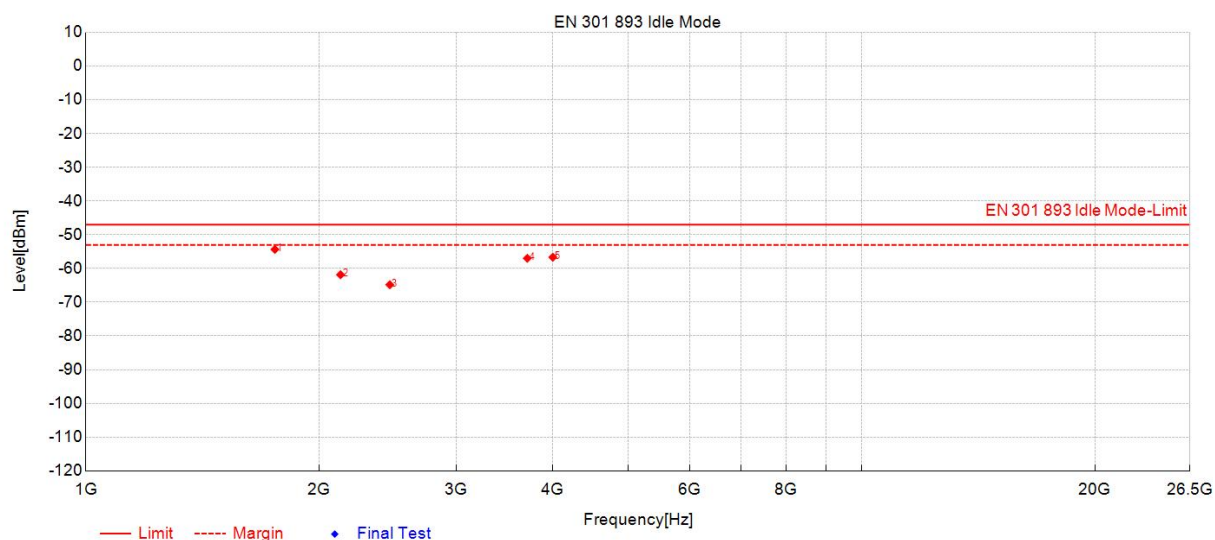
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1762.45	-49.53	-61.40	-11.87	-47.00	14.40	Horizon	RMS	PASS
2	2123.275	-55.31	-61.97	-6.66	-47.00	14.97	Horizon	RMS	PASS
3	2425.45	-53.71	-60.32	-6.61	-47.00	13.32	Horizon	RMS	PASS
4	3708.1	-54.56	-56.72	-2.16	-47.00	9.72	Horizon	RMS	PASS
5	4000.075	-55.22	-55.53	-0.31	-47.00	8.53	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11N40MIMO_5310	Polarization	Horizontal
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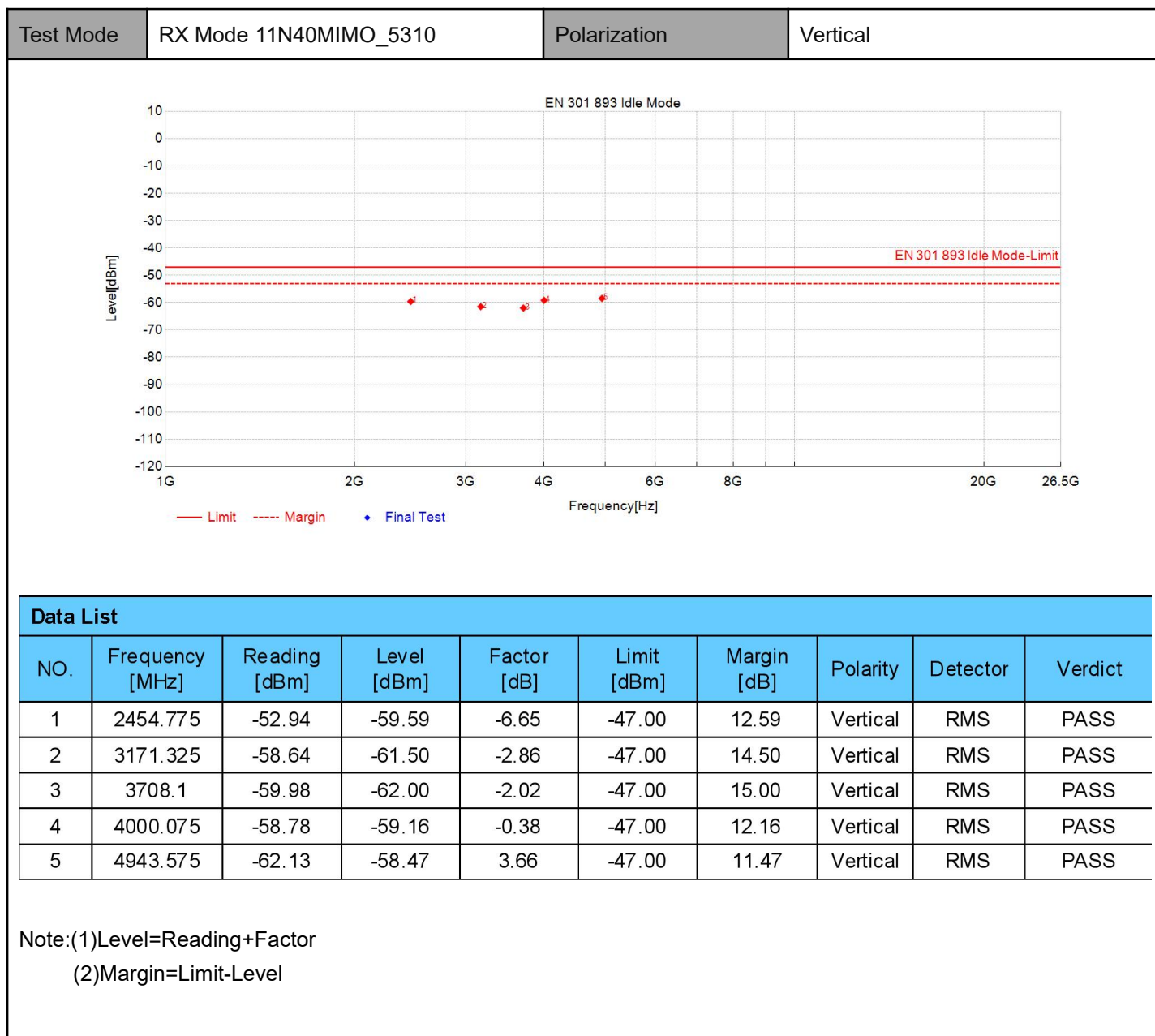


Data List

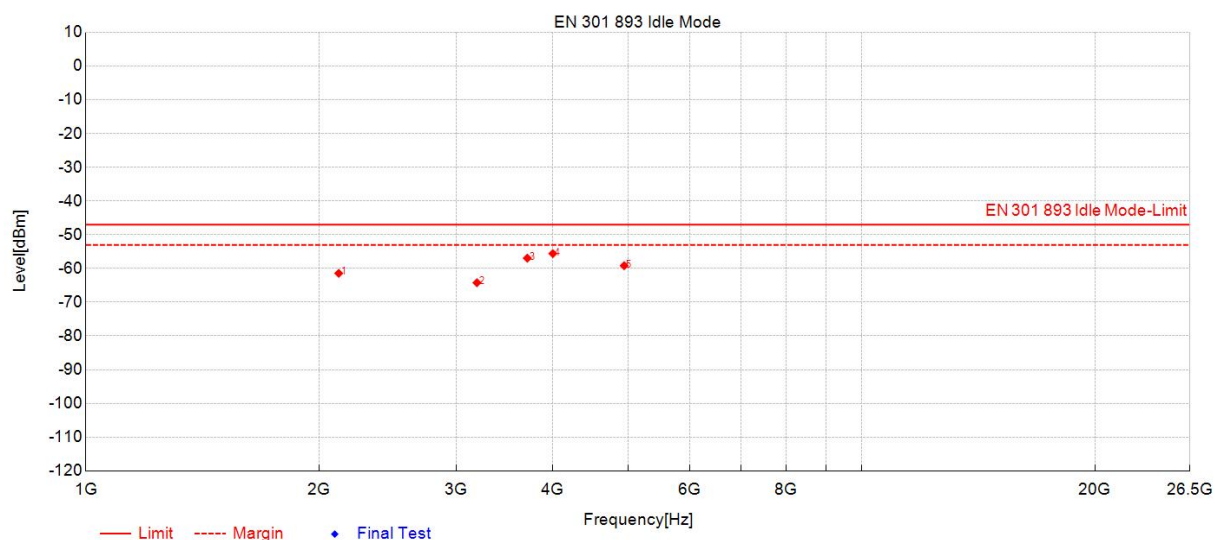
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1752.25	-42.44	-54.34	-11.90	-47.00	7.34	Horizon	RMS	PASS
2	2129.65	-55.17	-61.85	-6.68	-47.00	14.85	Horizon	RMS	PASS
3	2464.975	-58.46	-64.82	-6.36	-47.00	17.82	Horizon	RMS	PASS
4	3708.1	-54.83	-56.99	-2.16	-47.00	9.99	Horizon	RMS	PASS
5	4000.075	-56.35	-56.66	-0.31	-47.00	9.66	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11N40MIMO_5510	Polarization	Horizontal
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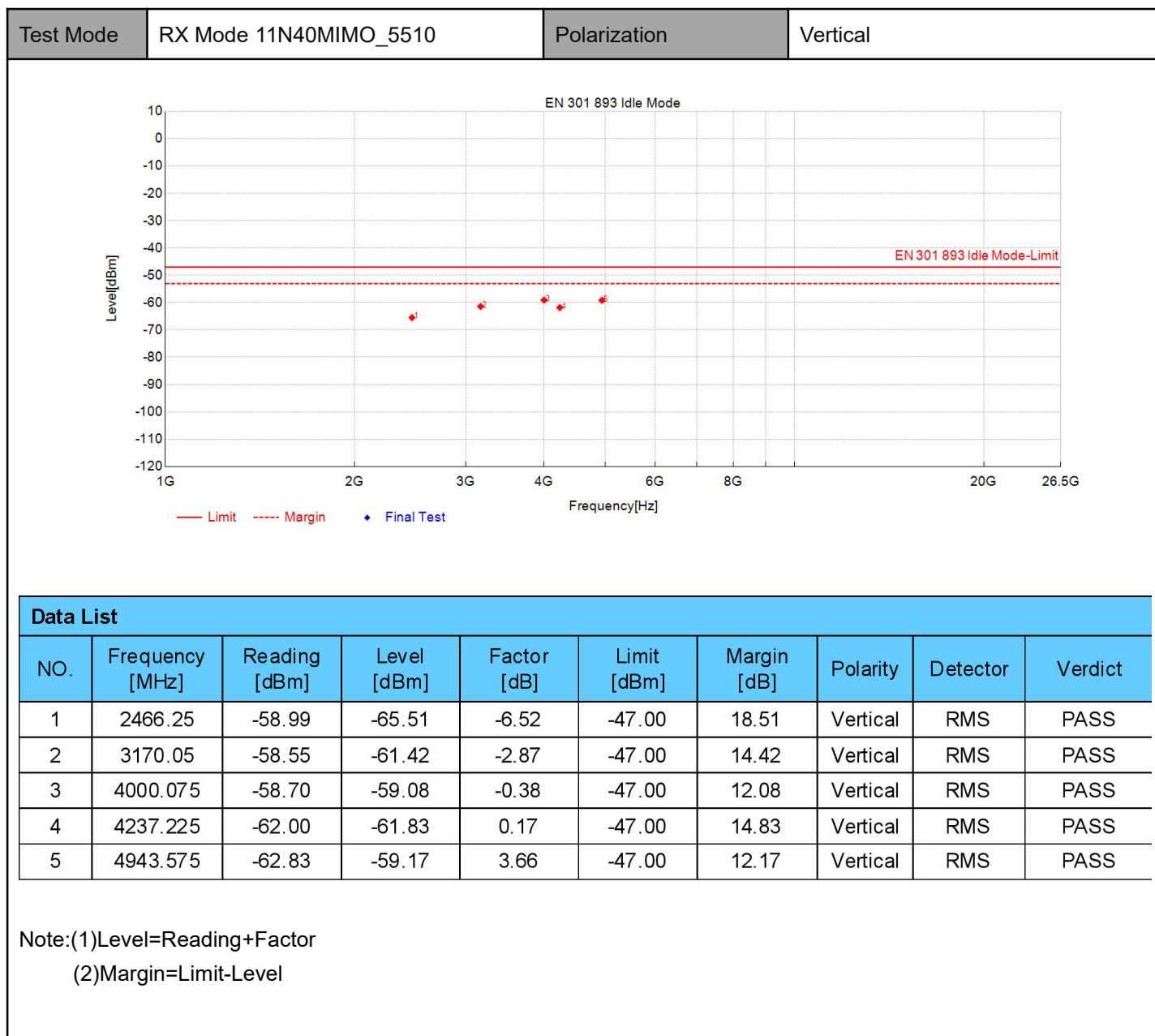


Data List

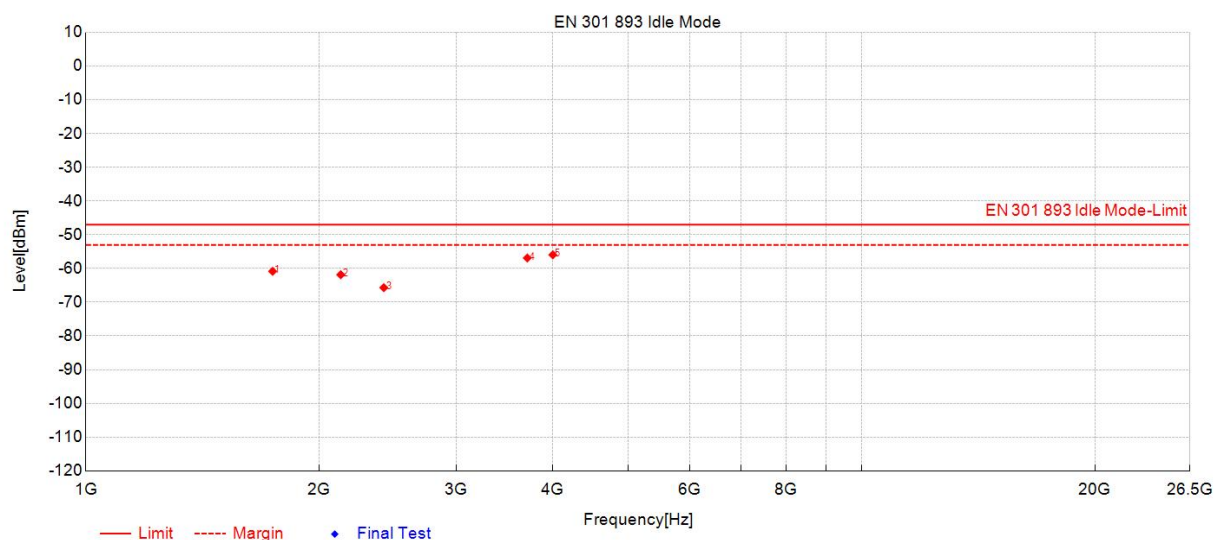
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2118.175	-54.79	-61.43	-6.64	-47.00	14.43	Horizon	RMS	PASS
2	3193	-61.51	-64.22	-2.71	-47.00	17.22	Horizon	RMS	PASS
3	3708.1	-54.77	-56.93	-2.16	-47.00	9.93	Horizon	RMS	PASS
4	4000.075	-55.28	-55.59	-0.31	-47.00	8.59	Horizon	RMS	PASS
5	4943.575	-62.77	-59.17	3.60	-47.00	12.17	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11N40MIMO_5670	Polarization	Horizontal
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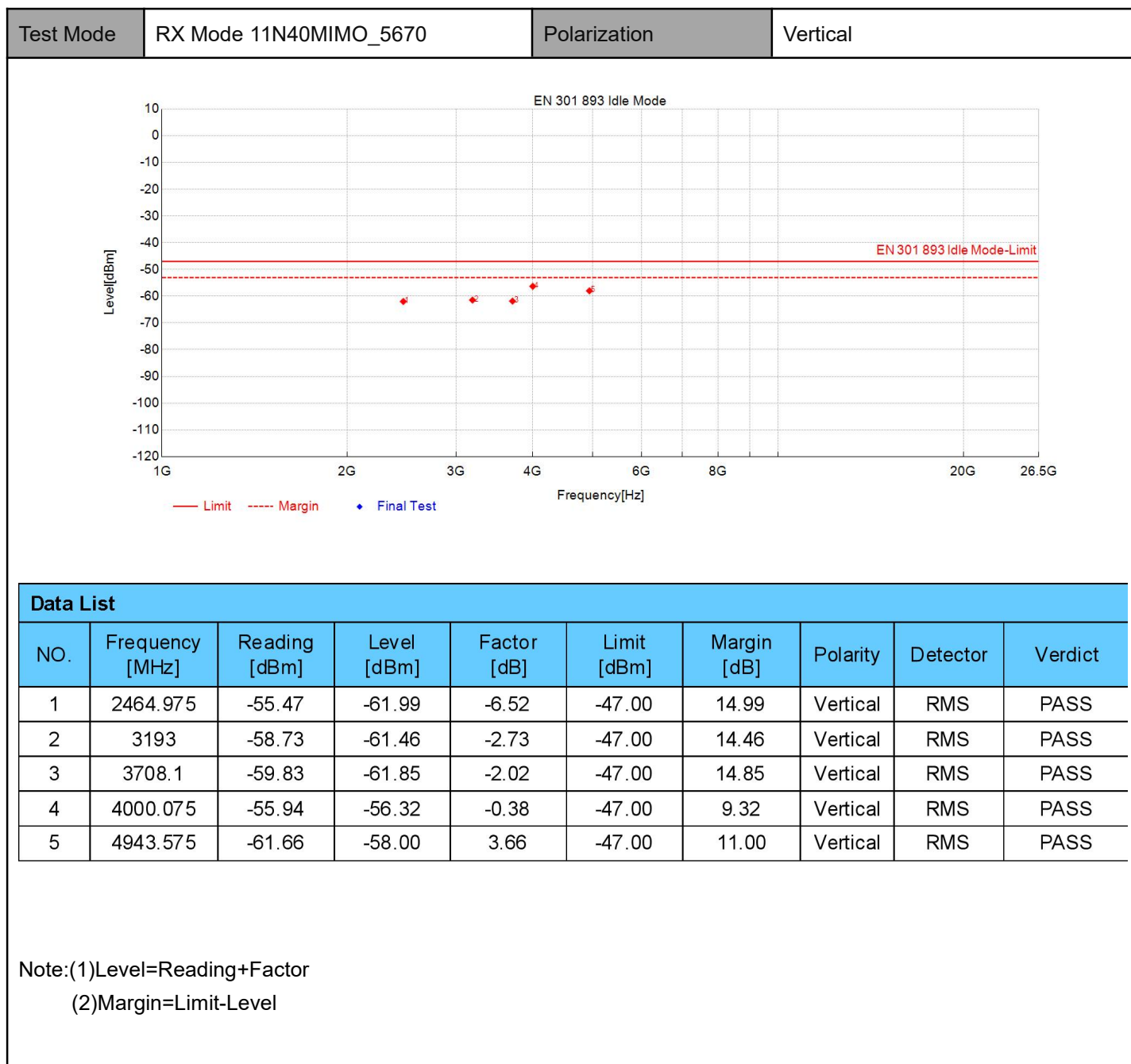


Data List

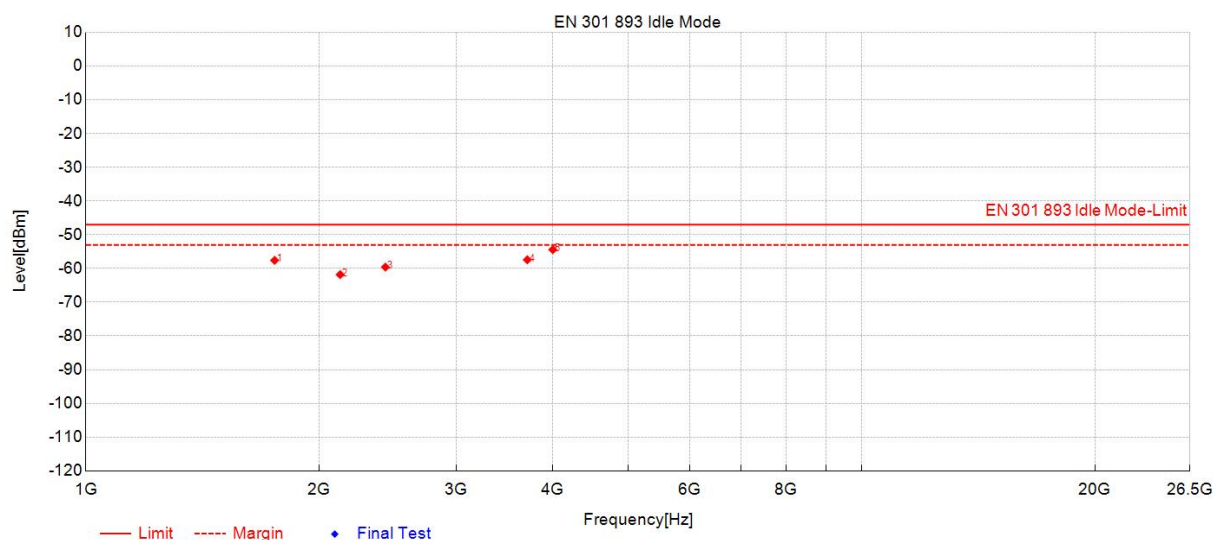
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1740.775	-48.93	-60.84	-11.91	-47.00	13.84	Horizon	RMS	PASS
2	2130.925	-55.17	-61.85	-6.68	-47.00	14.85	Horizon	RMS	PASS
3	2421.625	-59.06	-65.69	-6.63	-47.00	18.69	Horizon	RMS	PASS
4	3708.1	-54.73	-56.89	-2.16	-47.00	9.89	Horizon	RMS	PASS
5	4000.075	-55.64	-55.95	-0.31	-47.00	8.95	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AC20MIMO_5180	Polarization	Horizontal
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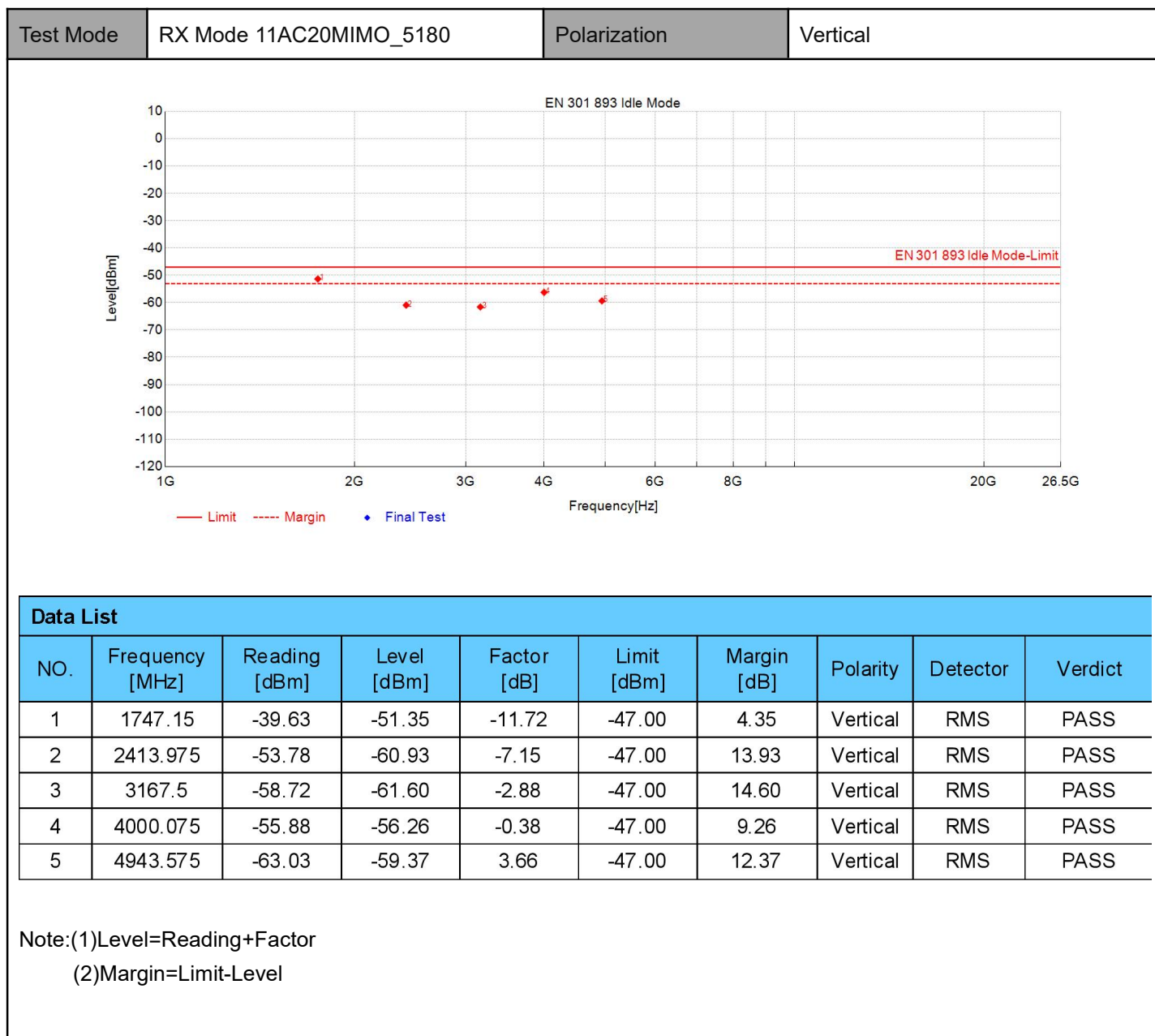


Data List

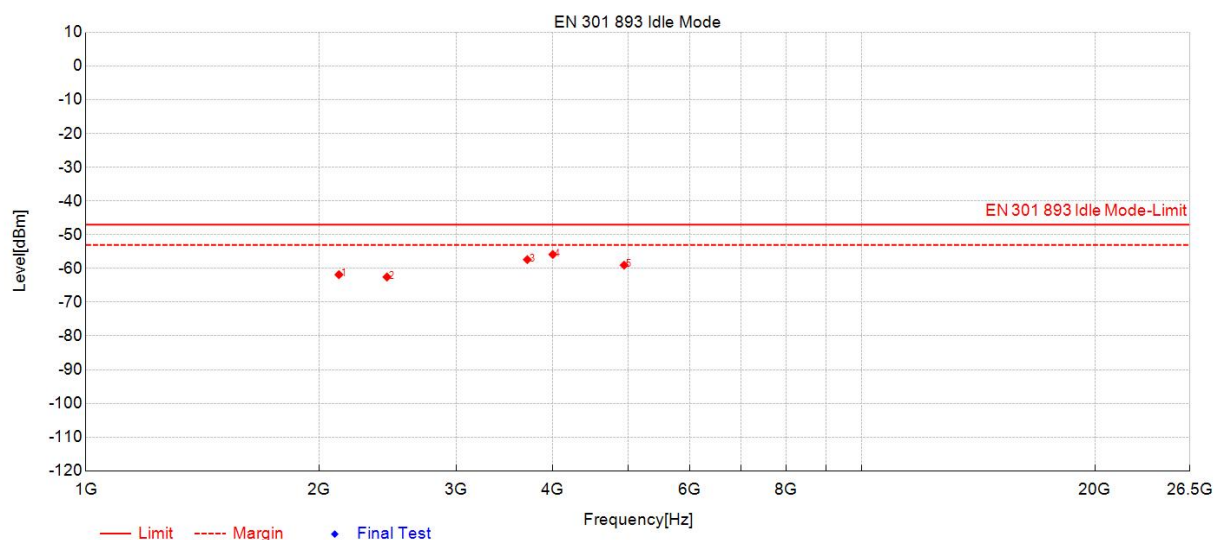
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1750.975	-45.68	-57.58	-11.90	-47.00	10.58	Horizon	RMS	PASS
2	2127.1	-55.14	-61.81	-6.67	-47.00	14.81	Horizon	RMS	PASS
3	2433.1	-53.03	-59.59	-6.56	-47.00	12.59	Horizon	RMS	PASS
4	3708.1	-55.26	-57.42	-2.16	-47.00	10.42	Horizon	RMS	PASS
5	4000.075	-54.10	-54.41	-0.31	-47.00	7.41	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AC20MIMO_5320	Polarization	Horizontal
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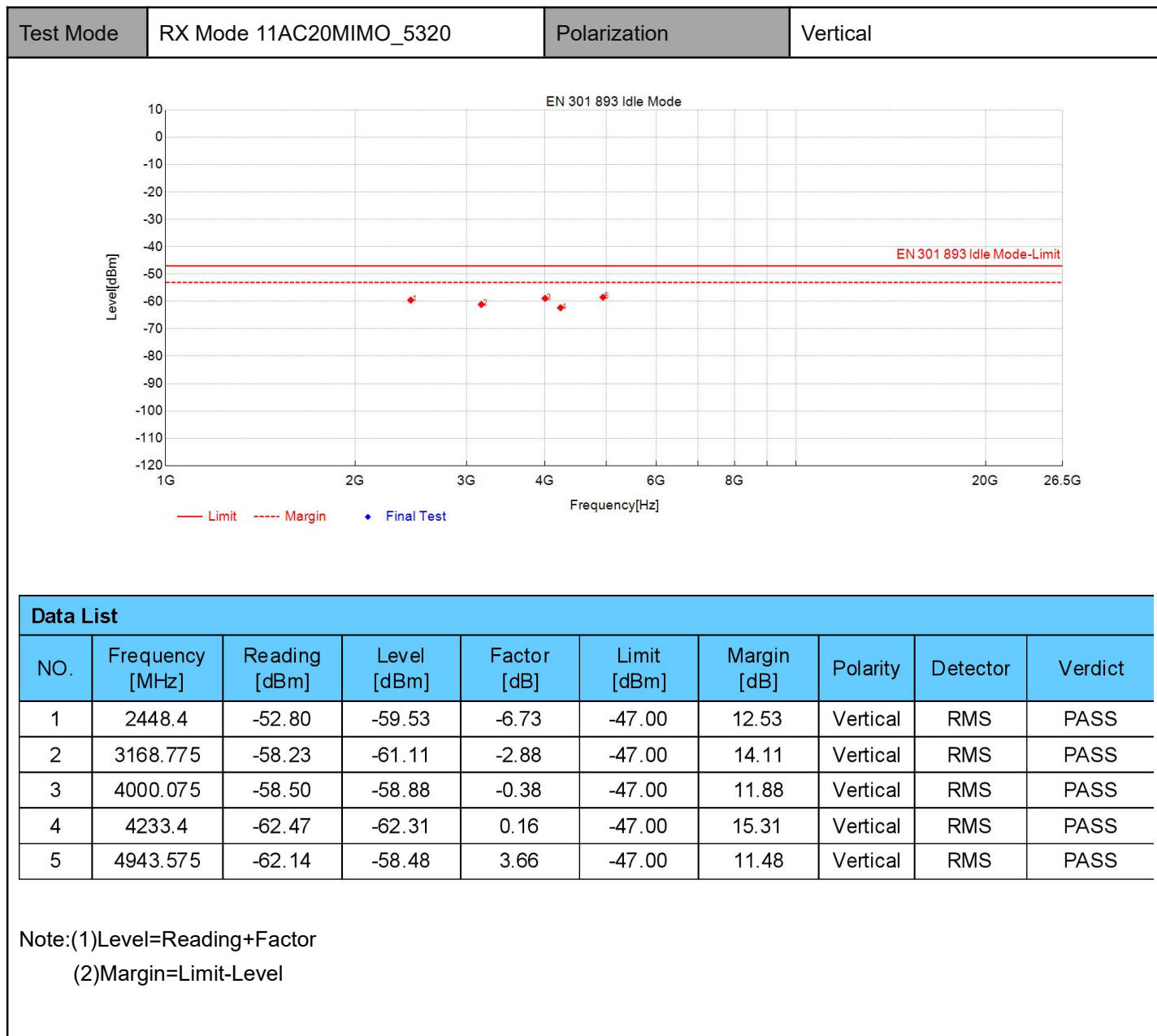


Data List

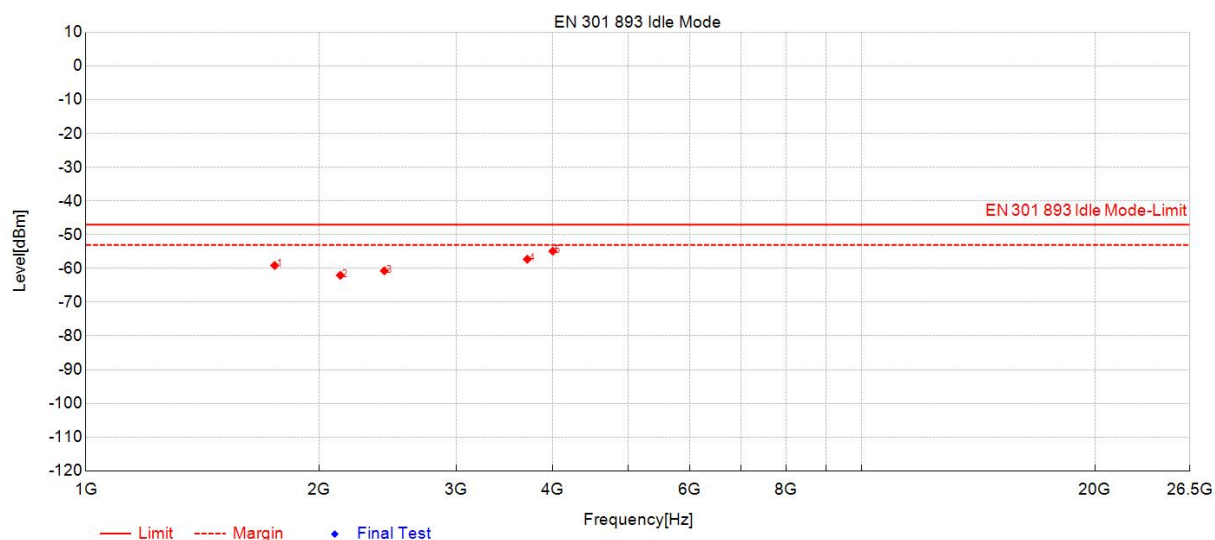
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2119.45	-55.18	-61.83	-6.65	-47.00	14.83	Horizon	RMS	PASS
2	2444.575	-56.03	-62.52	-6.49	-47.00	15.52	Horizon	RMS	PASS
3	3708.1	-55.21	-57.37	-2.16	-47.00	10.37	Horizon	RMS	PASS
4	4000.075	-55.53	-55.84	-0.31	-47.00	8.84	Horizon	RMS	PASS
5	4943.575	-62.62	-59.02	3.60	-47.00	12.02	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AC20MIMO_5500	Polarization	Horizontal
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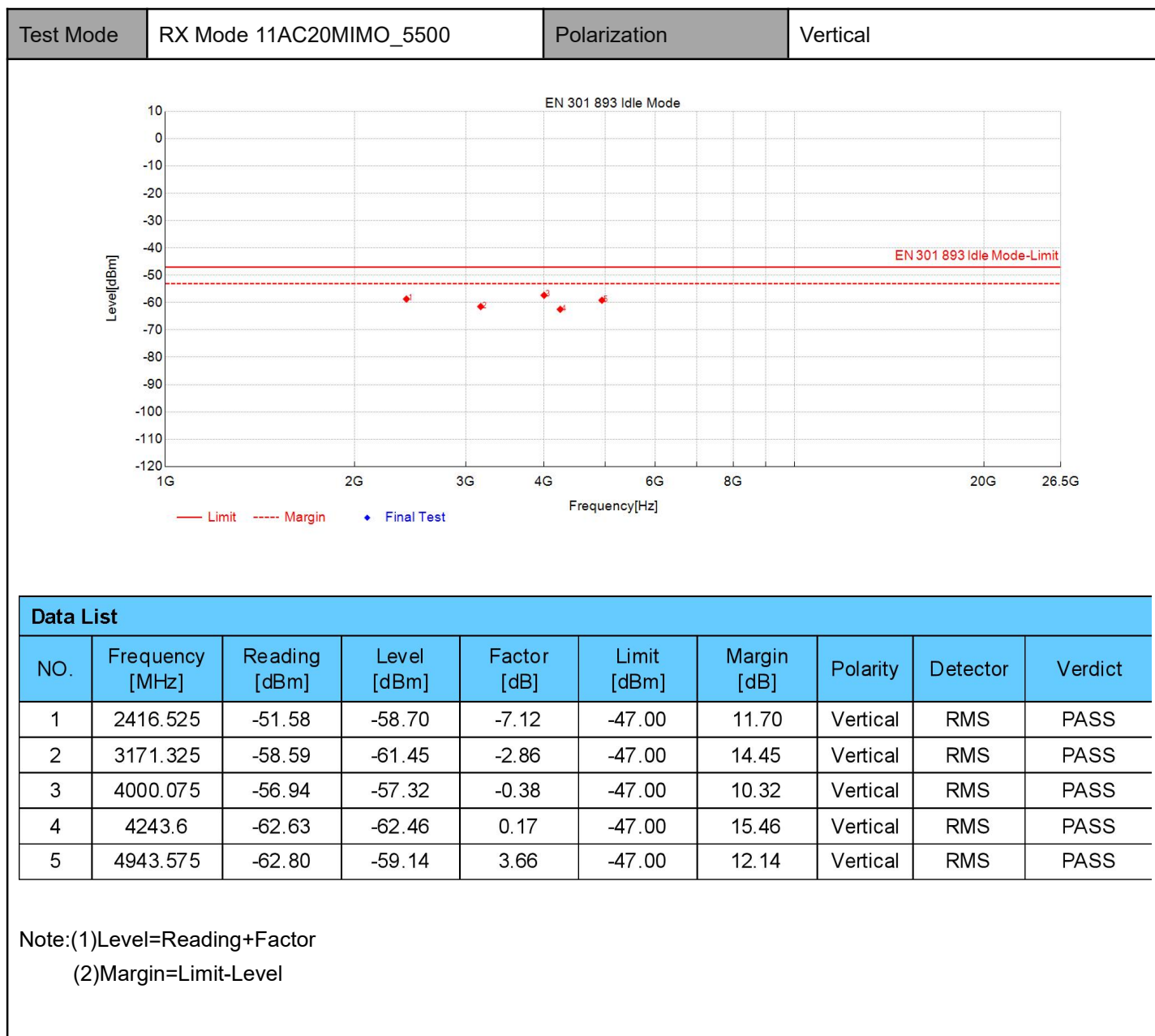


Data List

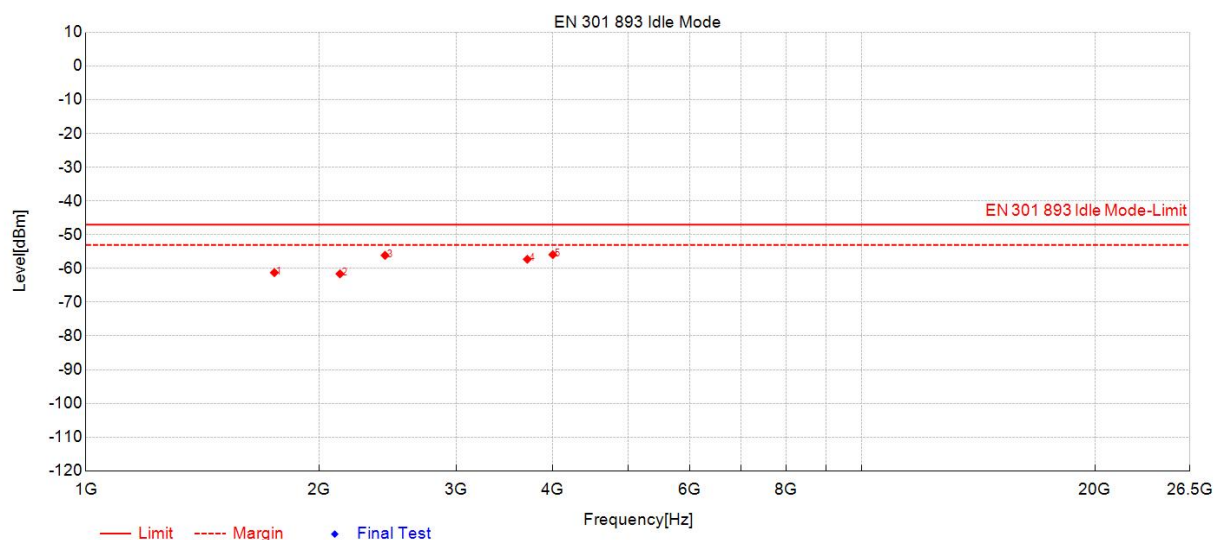
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1750.975	-47.21	-59.11	-11.90	-47.00	12.11	Horizon	RMS	PASS
2	2128.375	-55.35	-62.02	-6.67	-47.00	15.02	Horizon	RMS	PASS
3	2425.45	-54.08	-60.69	-6.61	-47.00	13.69	Horizon	RMS	PASS
4	3708.1	-55.10	-57.26	-2.16	-47.00	10.26	Horizon	RMS	PASS
5	4000.075	-54.55	-54.86	-0.31	-47.00	7.86	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AC20MIMO_5700	Polarization	Horizontal
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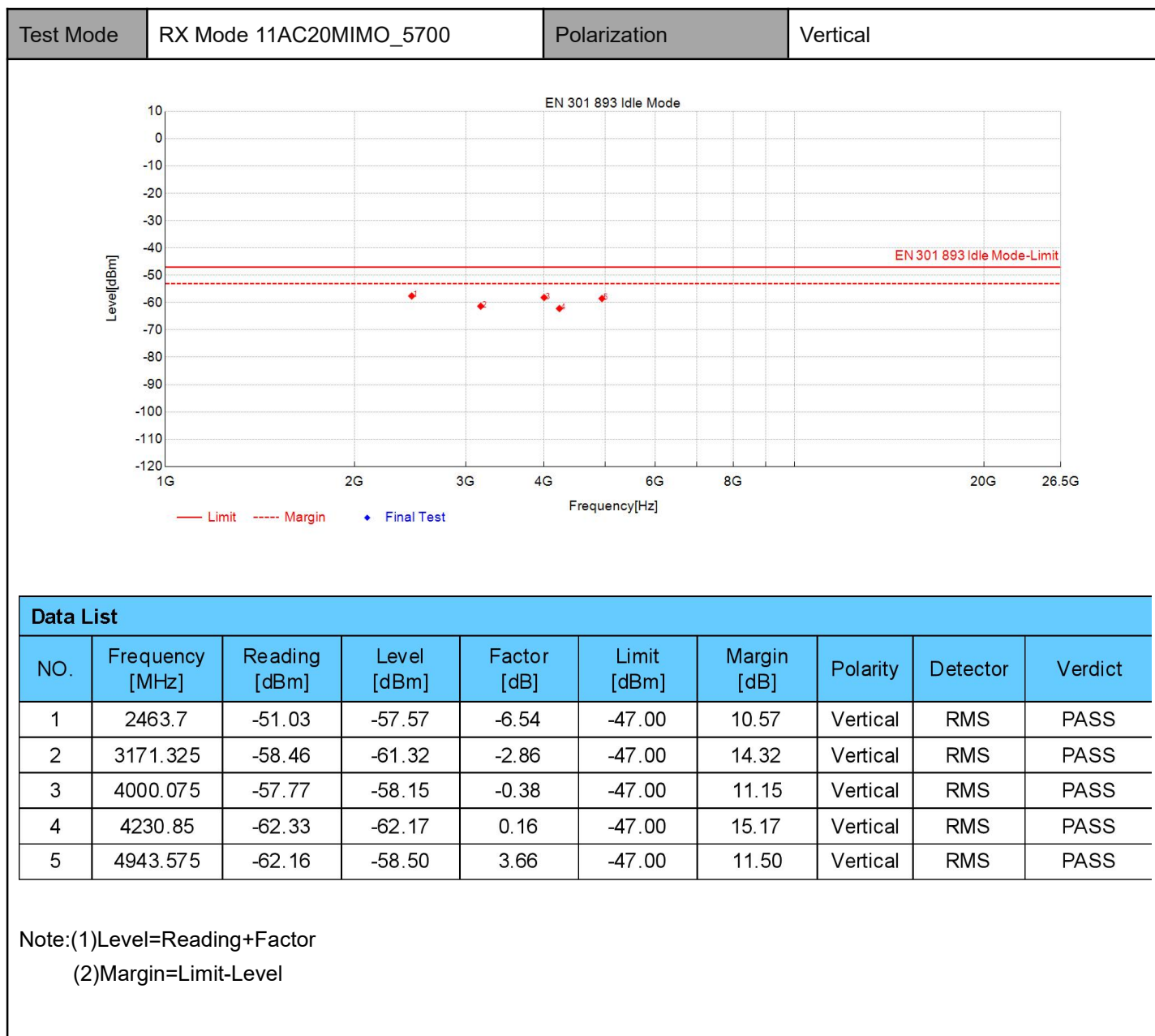


Data List

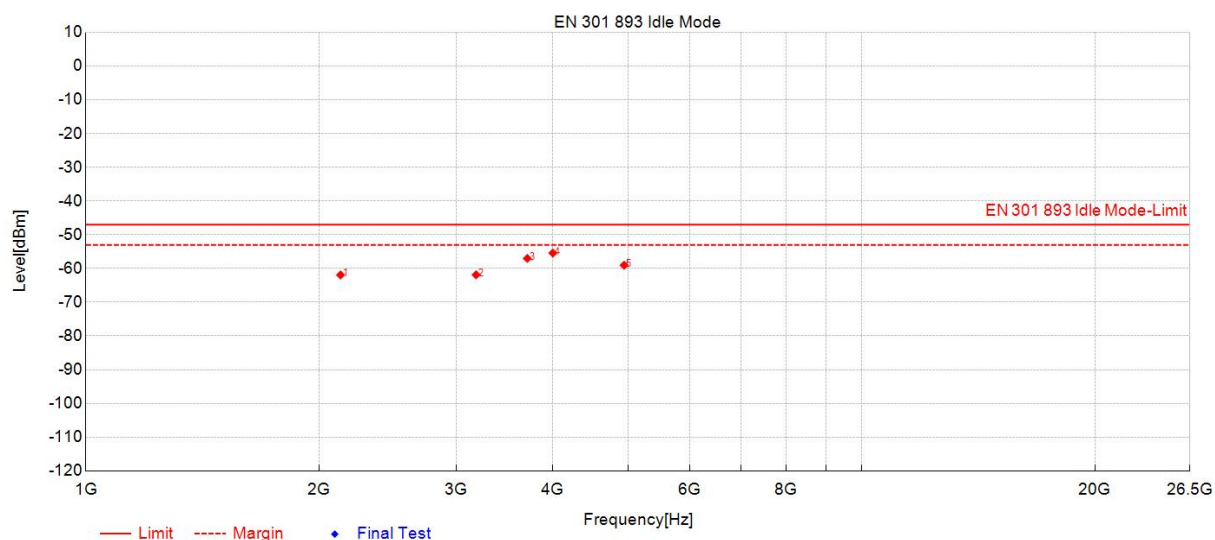
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1749.7	-49.32	-61.22	-11.90	-47.00	14.22	Horizon	RMS	PASS
2	2125.825	-54.94	-61.60	-6.66	-47.00	14.60	Horizon	RMS	PASS
3	2430.55	-49.52	-56.10	-6.58	-47.00	9.10	Horizon	RMS	PASS
4	3708.1	-55.12	-57.28	-2.16	-47.00	10.28	Horizon	RMS	PASS
5	4000.075	-55.59	-55.90	-0.31	-47.00	8.90	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AC40MIMO_5190	Polarization	Horizontal
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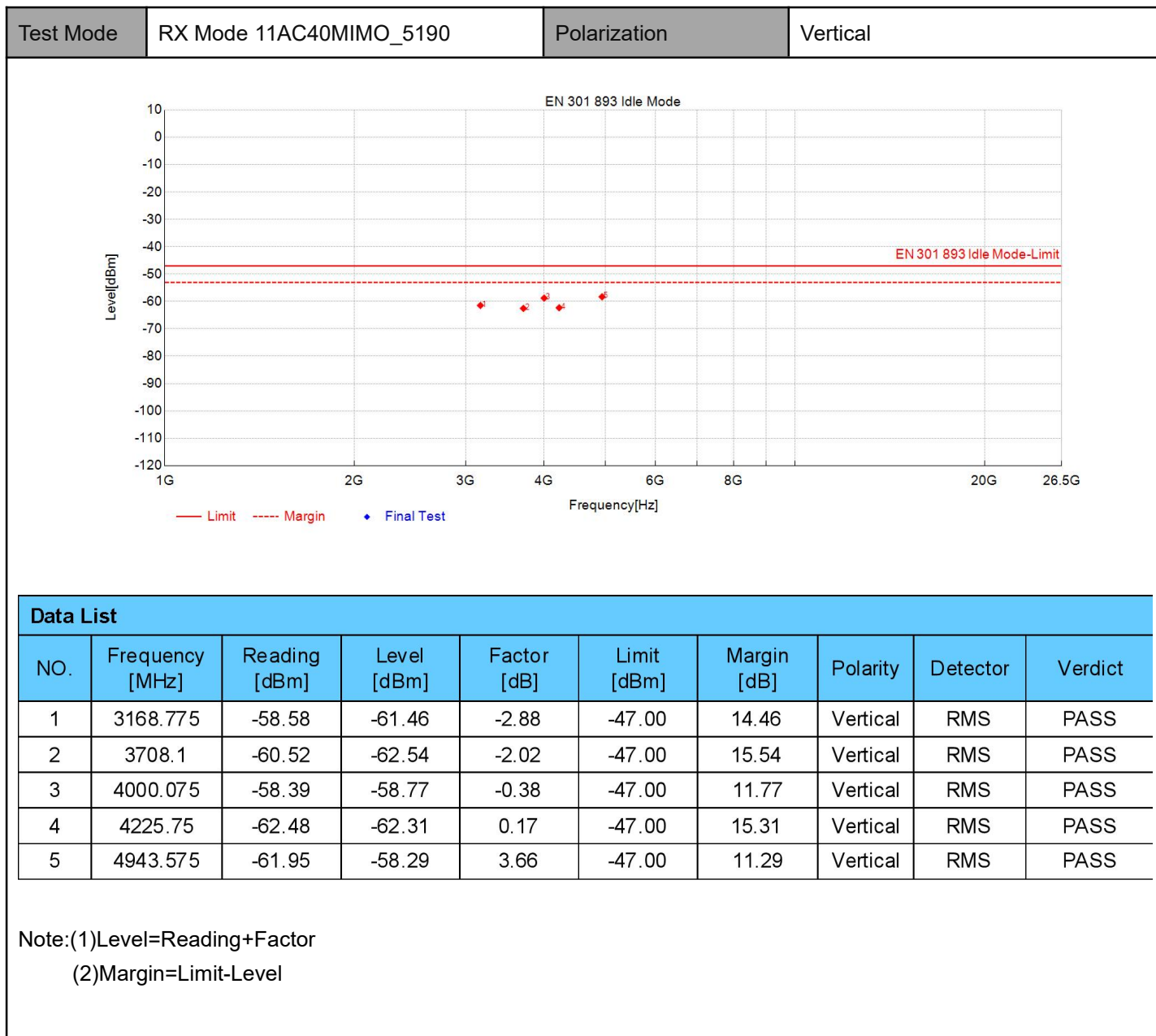


Data List

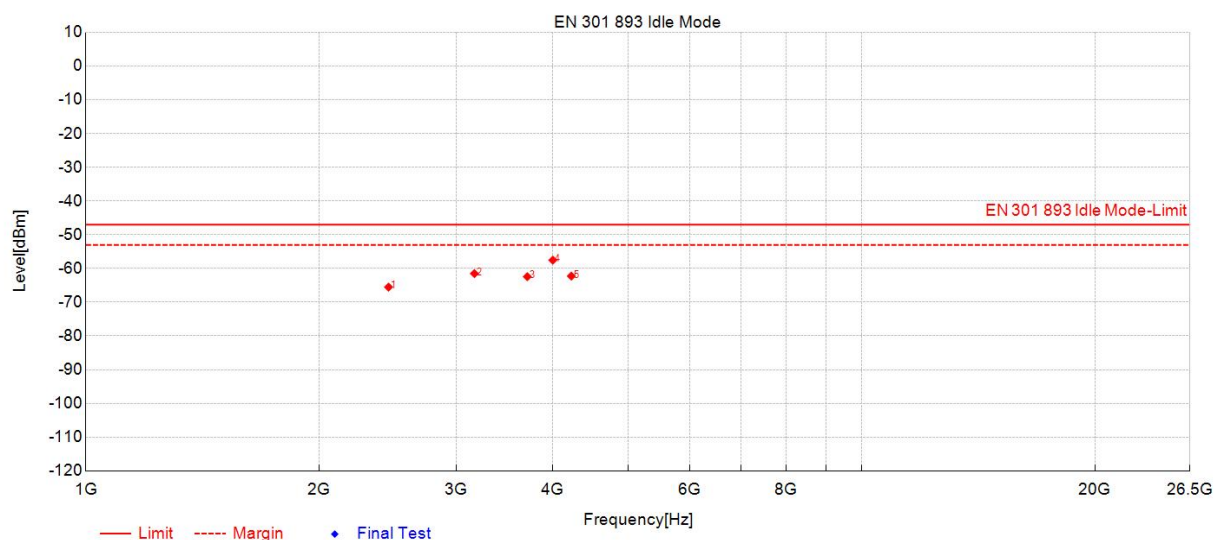
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2129.65	-55.24	-61.92	-6.68	-47.00	14.92	Horizon	RMS	PASS
2	3185.35	-59.12	-61.87	-2.75	-47.00	14.87	Horizon	RMS	PASS
3	3708.1	-54.85	-57.01	-2.16	-47.00	10.01	Horizon	RMS	PASS
4	4000.075	-55.12	-55.43	-0.31	-47.00	8.43	Horizon	RMS	PASS
5	4943.575	-62.63	-59.03	3.60	-47.00	12.03	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AC40MIMO_5310	Polarization	Horizontal
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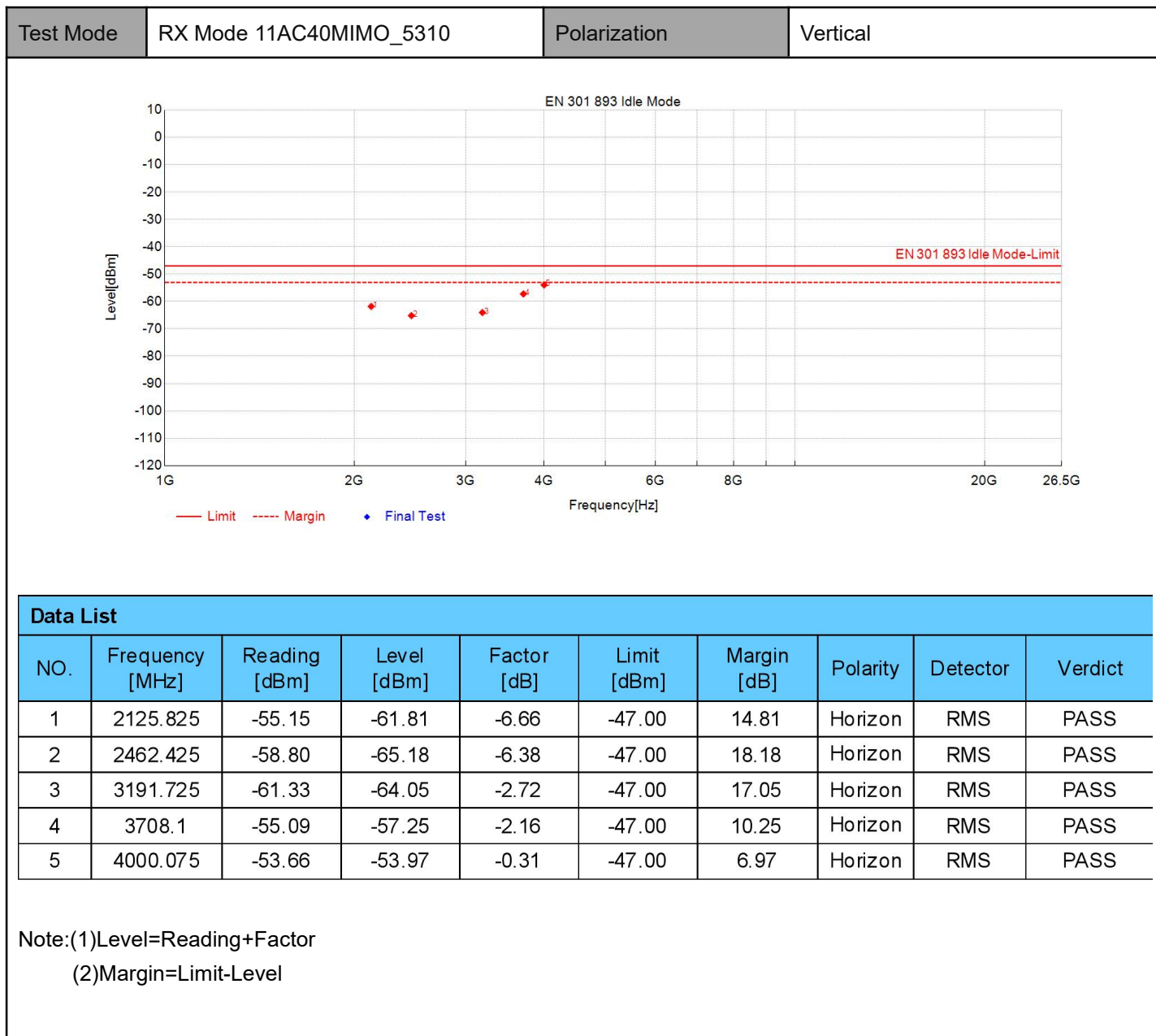


Data List

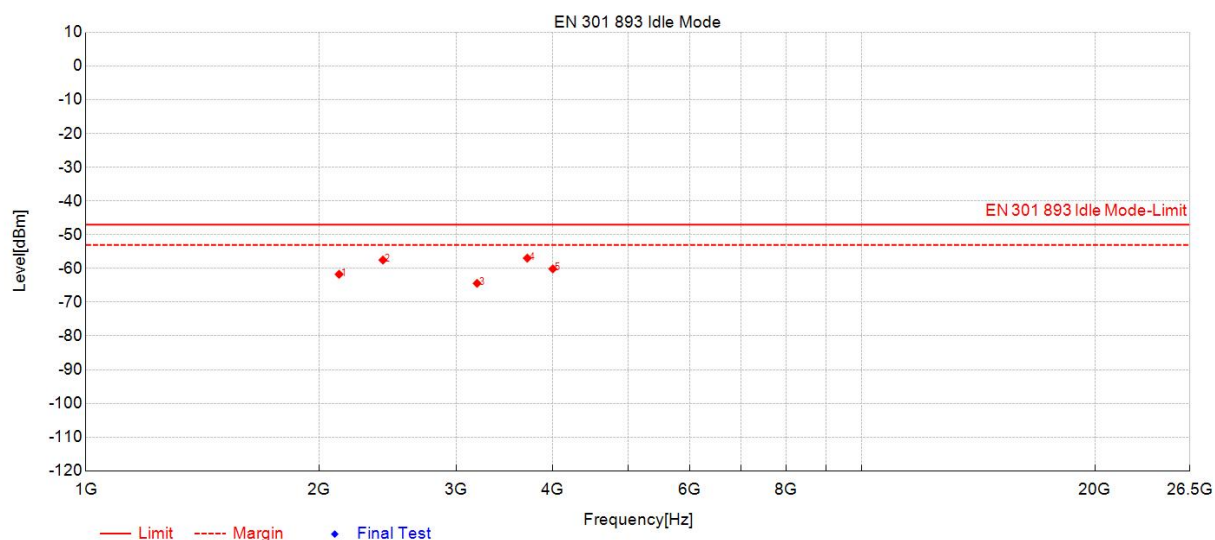
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2456.05	-58.89	-65.52	-6.63	-47.00	18.52	Vertical	RMS	PASS
2	3168.775	-58.63	-61.51	-2.88	-47.00	14.51	Vertical	RMS	PASS
3	3708.1	-60.41	-62.43	-2.02	-47.00	15.43	Vertical	RMS	PASS
4	4000.075	-57.14	-57.52	-0.38	-47.00	10.52	Vertical	RMS	PASS
5	4225.75	-62.43	-62.26	0.17	-47.00	15.26	Vertical	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AC40MIMO_5510	Polarization	Horizontal
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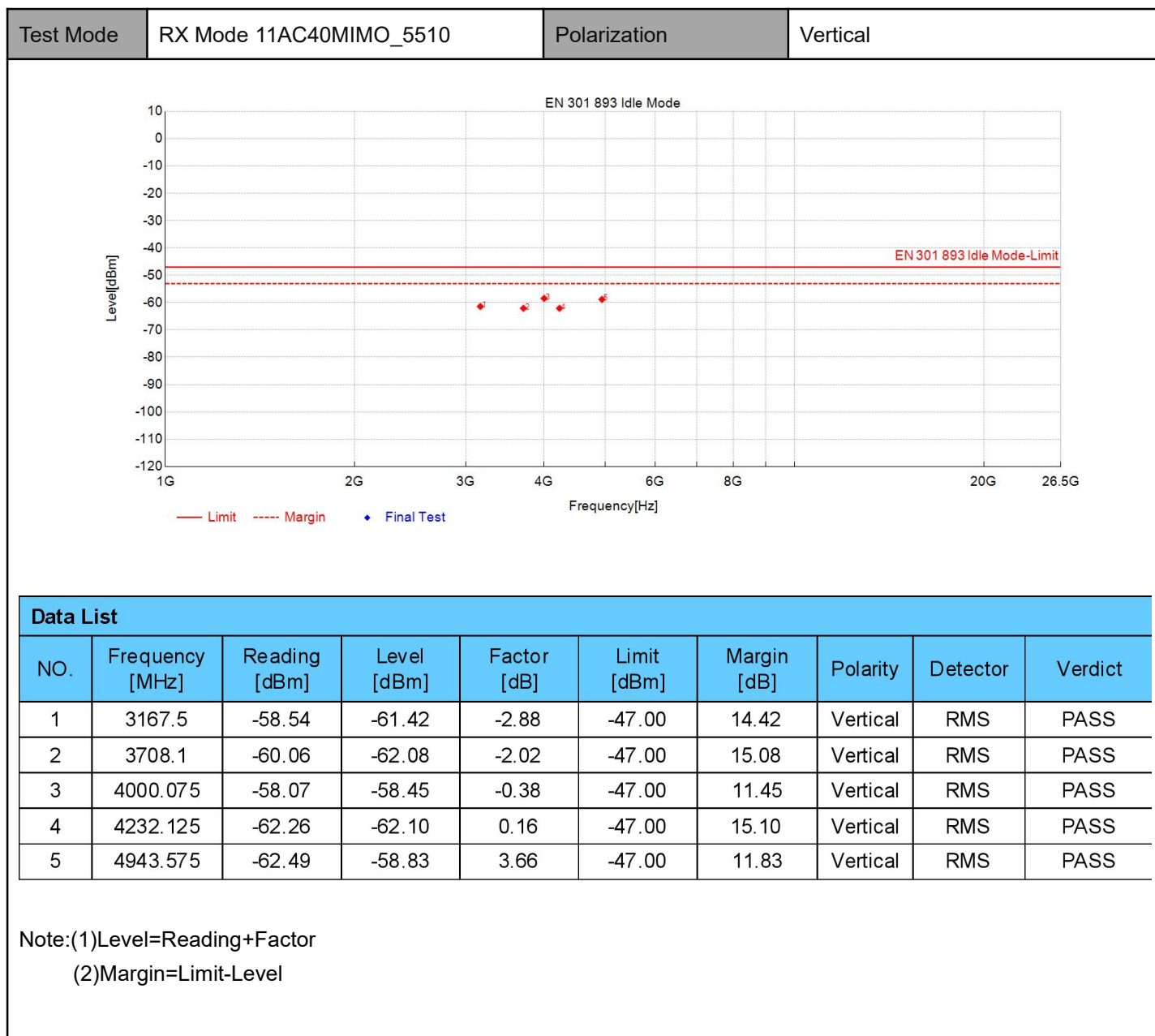


Data List

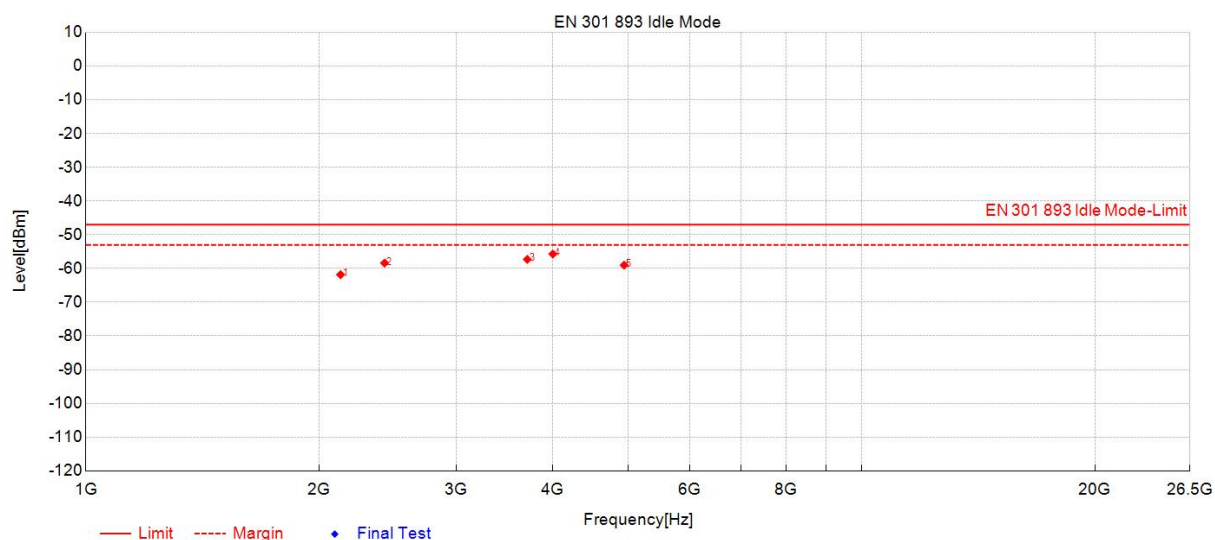
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2120.725	-55.07	-61.72	-6.65	-47.00	14.72	Horizon	RMS	PASS
2	2415.25	-50.83	-57.50	-6.67	-47.00	10.50	Horizon	RMS	PASS
3	3194.275	-61.70	-64.41	-2.71	-47.00	17.41	Horizon	RMS	PASS
4	3708.1	-54.77	-56.93	-2.16	-47.00	9.93	Horizon	RMS	PASS
5	4000.075	-59.81	-60.12	-0.31	-47.00	13.12	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AC40MIMO_5670	Polarization	Horizontal
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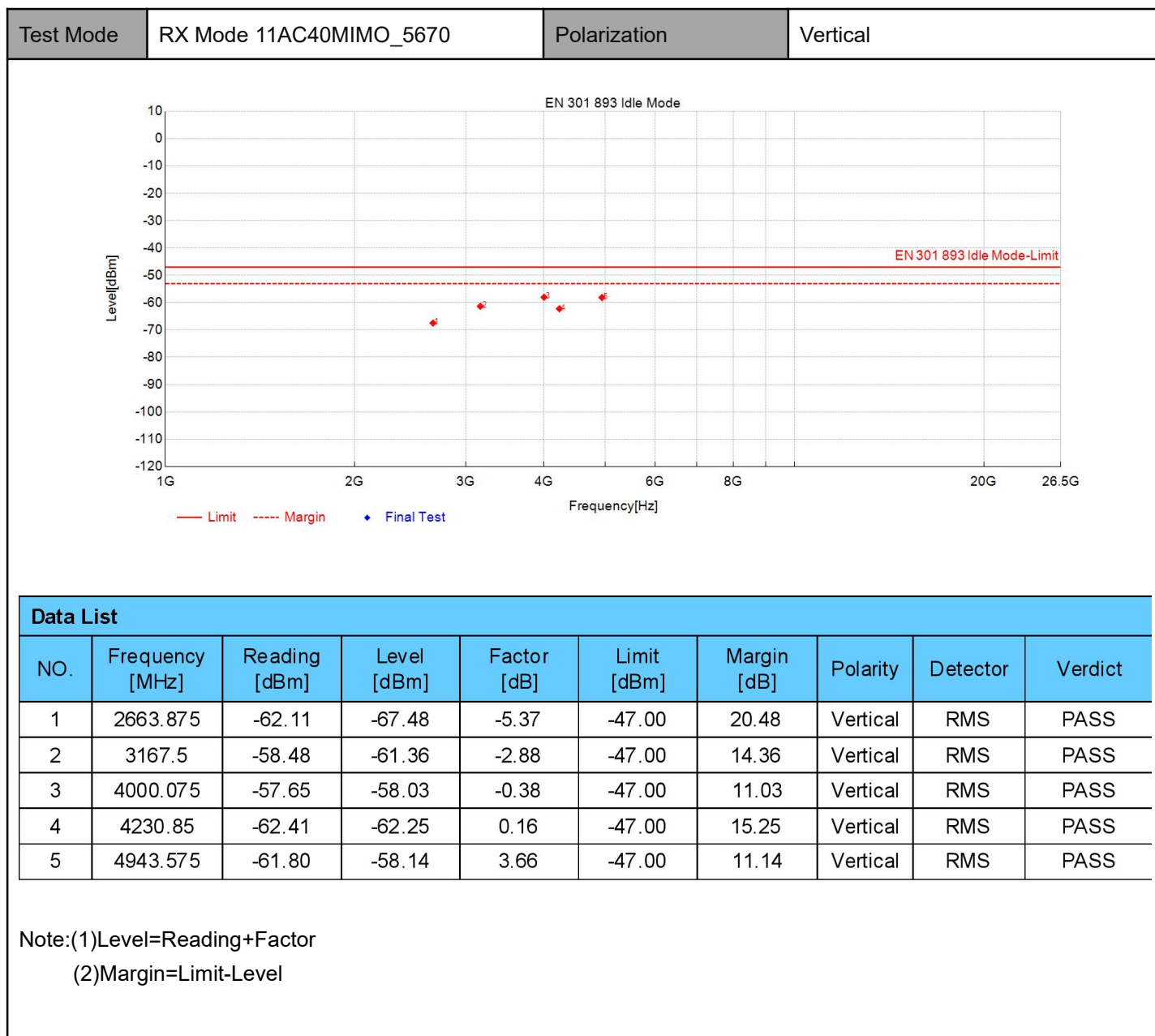


Data List

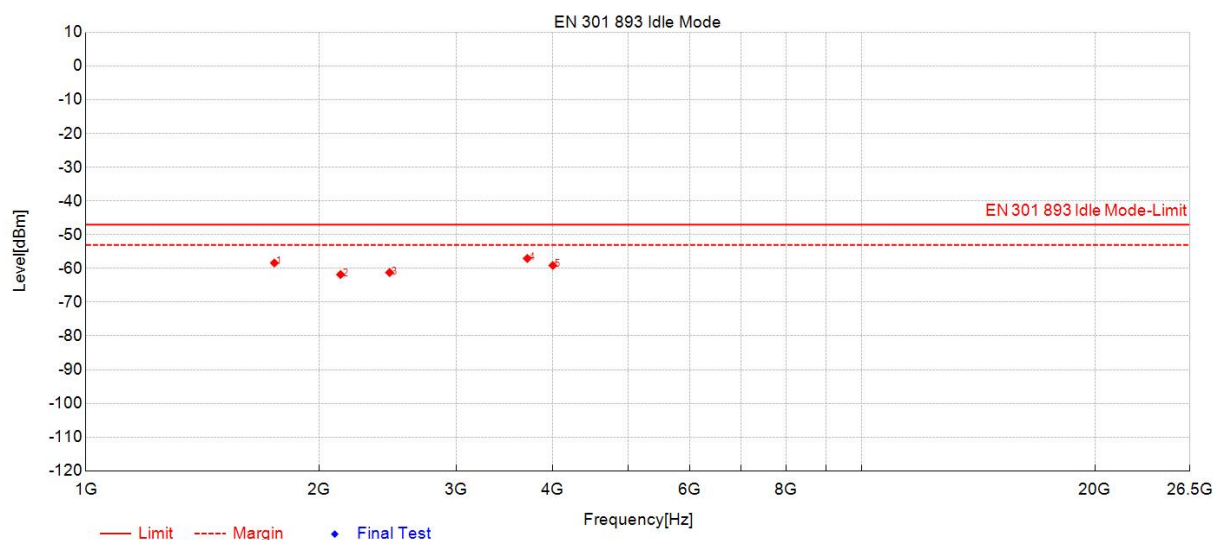
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2129.65	-55.16	-61.84	-6.68	-47.00	14.84	Horizon	RMS	PASS
2	2426.725	-51.79	-58.39	-6.60	-47.00	11.39	Horizon	RMS	PASS
3	3708.1	-55.14	-57.30	-2.16	-47.00	10.30	Horizon	RMS	PASS
4	4000.075	-55.40	-55.71	-0.31	-47.00	8.71	Horizon	RMS	PASS
5	4943.575	-62.61	-59.01	3.60	-47.00	12.01	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AC80MIMO_5210	Polarization	Horizontal
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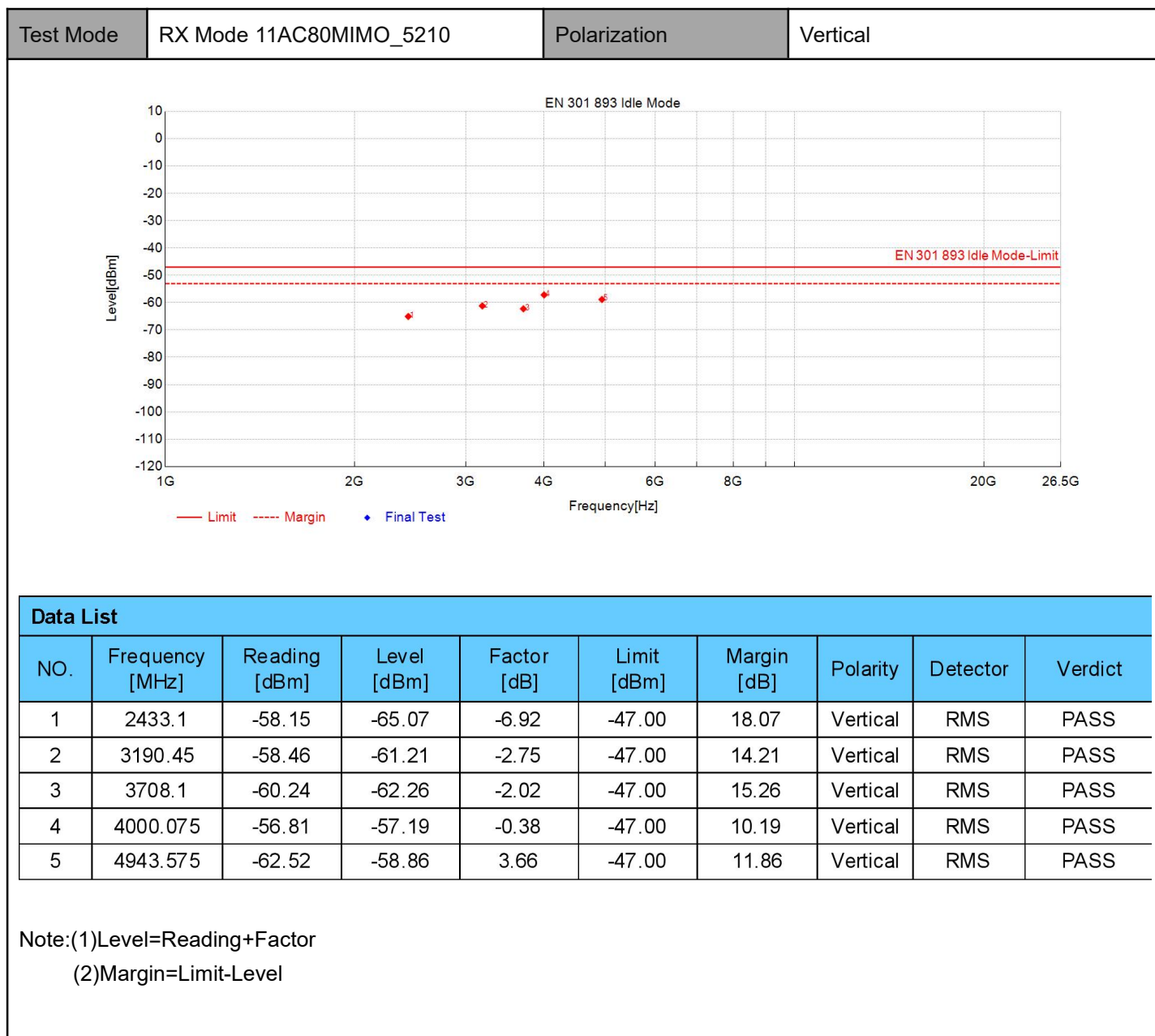


Data List

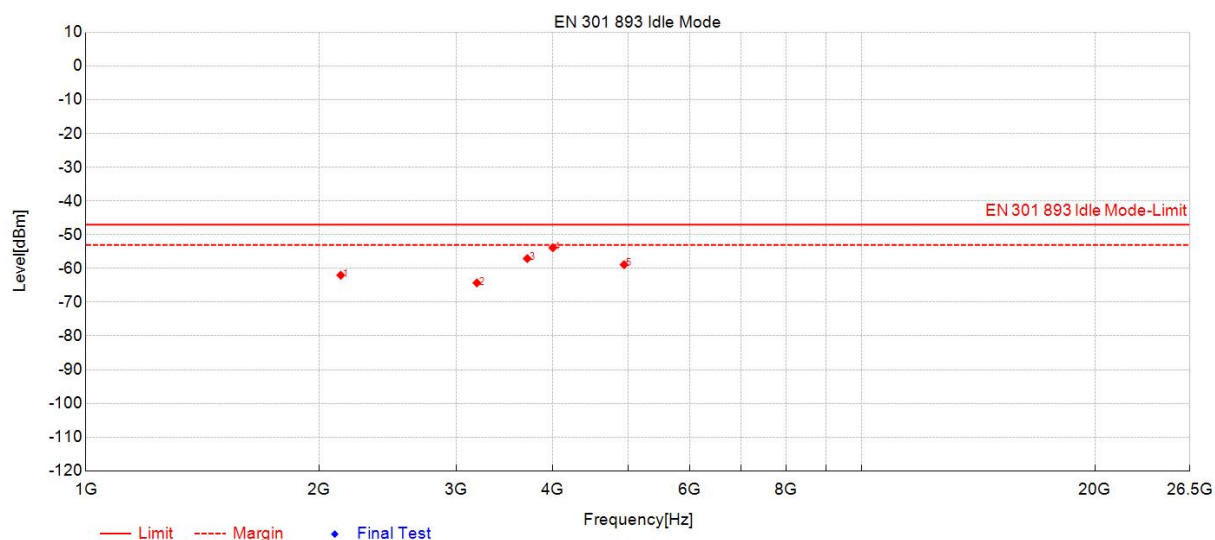
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1749.7	-46.46	-58.36	-11.90	-47.00	11.36	Horizon	RMS	PASS
2	2129.65	-55.11	-61.79	-6.68	-47.00	14.79	Horizon	RMS	PASS
3	2463.7	-54.82	-61.19	-6.37	-47.00	14.19	Horizon	RMS	PASS
4	3708.1	-54.87	-57.03	-2.16	-47.00	10.03	Horizon	RMS	PASS
5	4000.075	-58.79	-59.10	-0.31	-47.00	12.10	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AC80MIMO_5290	Polarization	Horizontal
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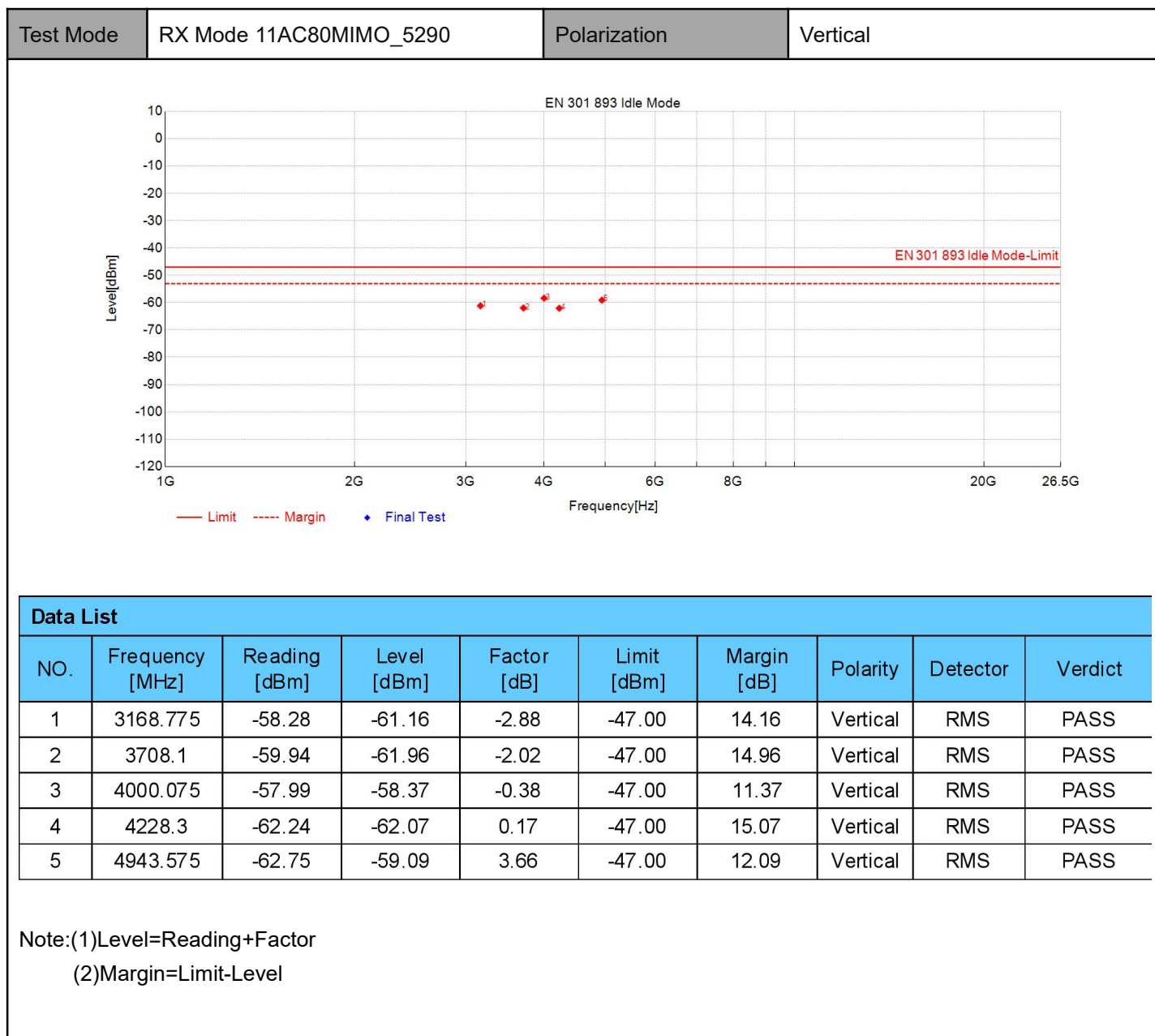


Data List

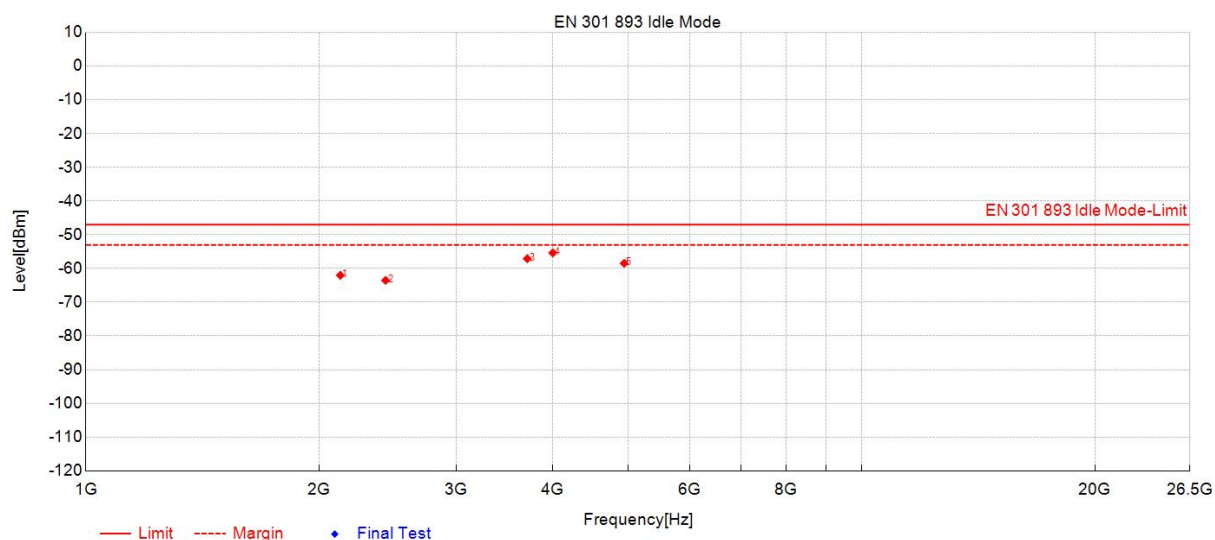
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2130.925	-55.32	-62.00	-6.68	-47.00	15.00	Horizon	RMS	PASS
2	3193	-61.57	-64.28	-2.71	-47.00	17.28	Horizon	RMS	PASS
3	3708.1	-54.90	-57.06	-2.16	-47.00	10.06	Horizon	RMS	PASS
4	4000.075	-53.54	-53.85	-0.31	-47.00	6.85	Horizon	RMS	PASS
5	4943.575	-62.47	-58.87	3.60	-47.00	11.87	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AC80MIMO_5530	Polarization	Horizontal
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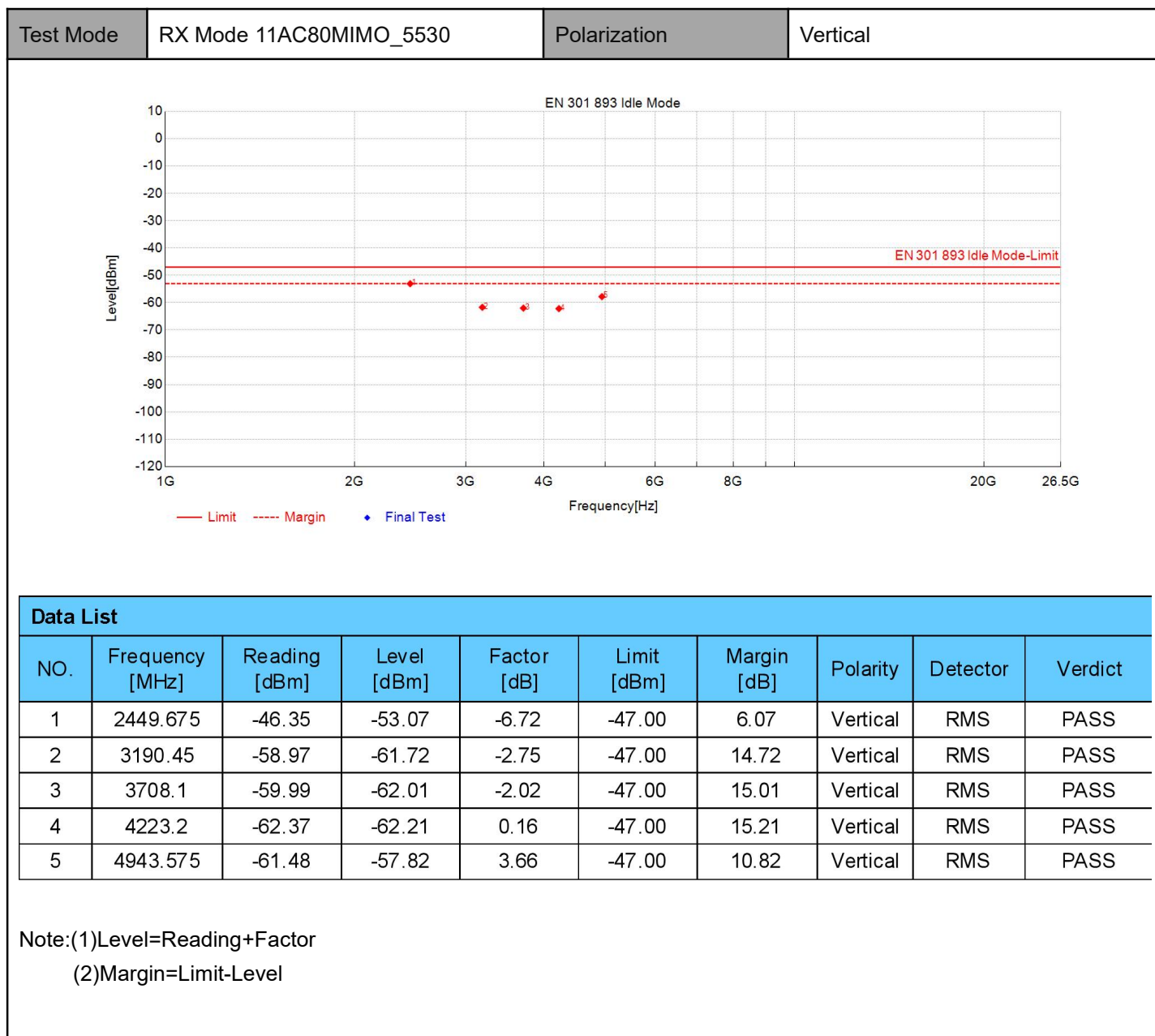


Data List

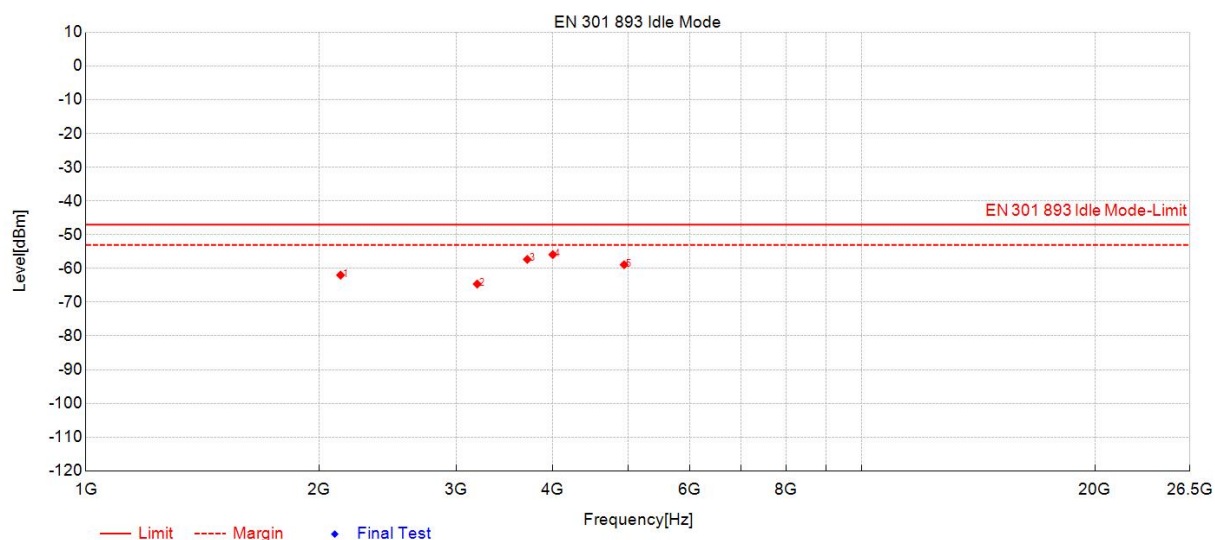
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2128.375	-55.35	-62.02	-6.67	-47.00	15.02	Horizon	RMS	PASS
2	2434.375	-56.97	-63.52	-6.55	-47.00	16.52	Horizon	RMS	PASS
3	3708.1	-54.93	-57.09	-2.16	-47.00	10.09	Horizon	RMS	PASS
4	4000.075	-55.06	-55.37	-0.31	-47.00	8.37	Horizon	RMS	PASS
5	4943.575	-62.08	-58.48	3.60	-47.00	11.48	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AC80MIMO_5610	Polarization	Horizontal
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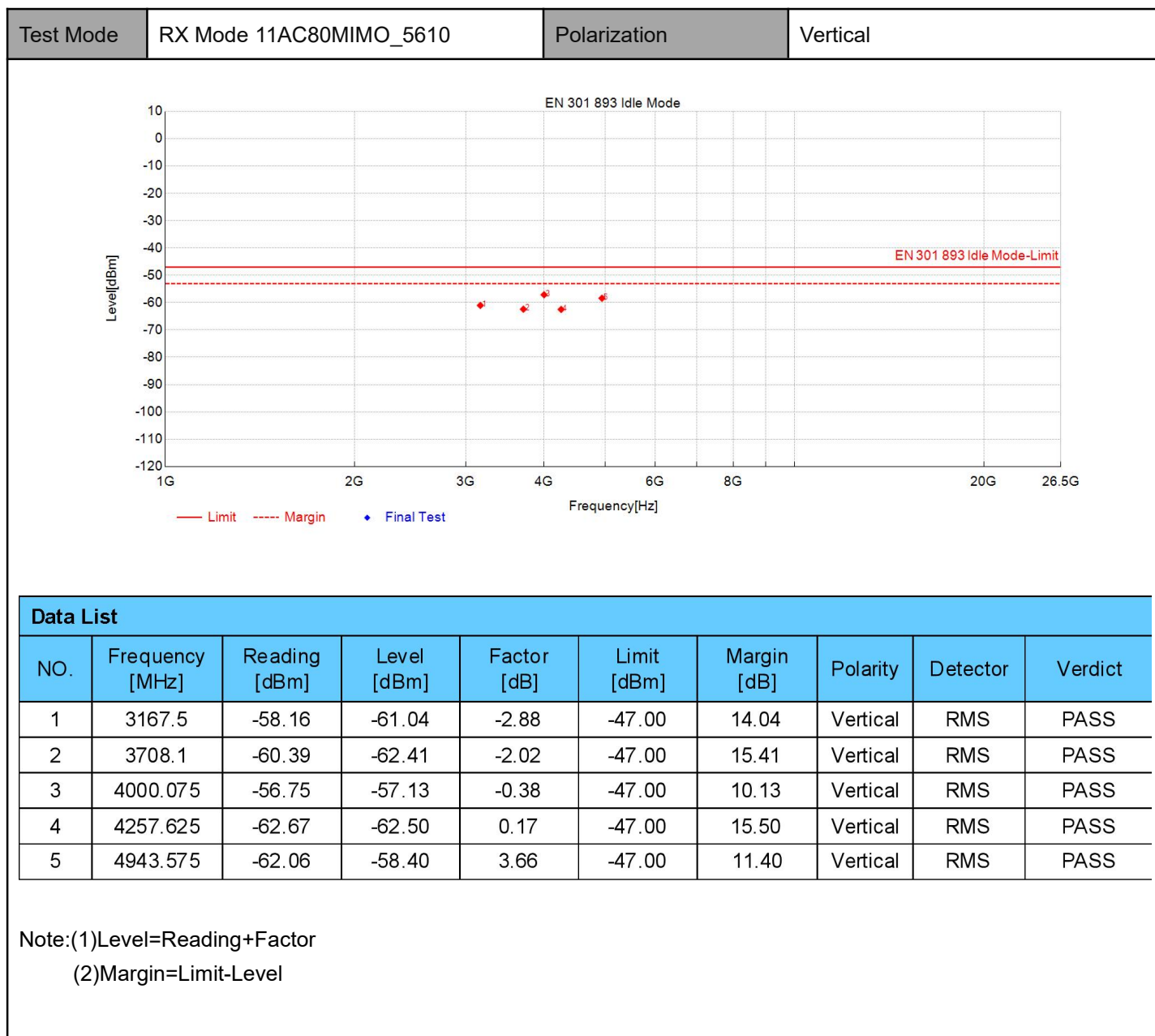


Data List

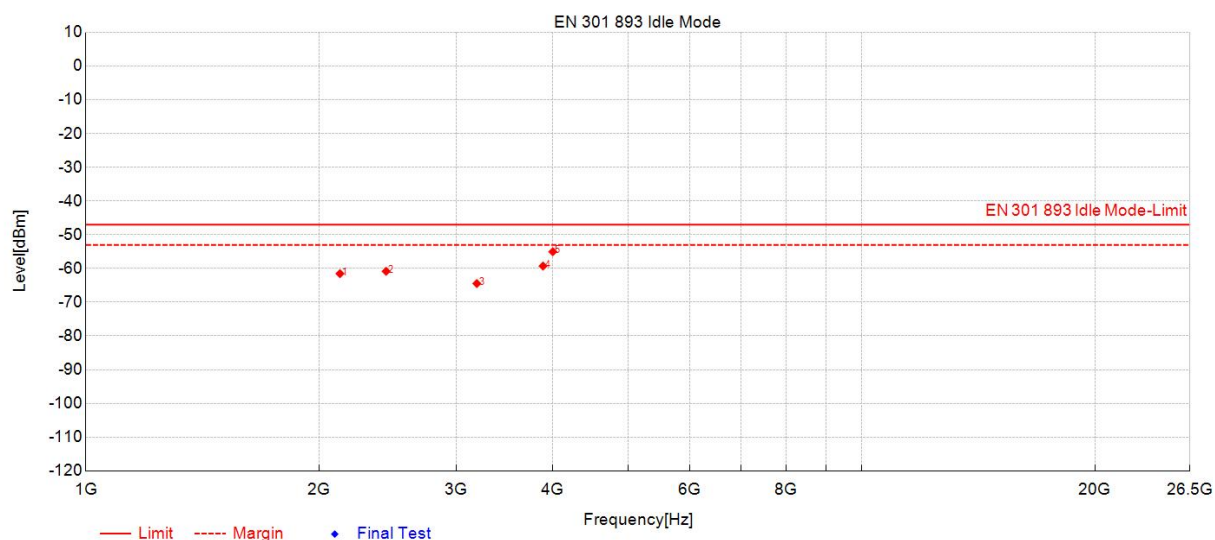
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2129.65	-55.28	-61.96	-6.68	-47.00	14.96	Horizon	RMS	PASS
2	3195.55	-61.90	-64.61	-2.71	-47.00	17.61	Horizon	RMS	PASS
3	3708.1	-55.15	-57.31	-2.16	-47.00	10.31	Horizon	RMS	PASS
4	4000.075	-55.58	-55.89	-0.31	-47.00	8.89	Horizon	RMS	PASS
5	4943.575	-62.49	-58.89	3.60	-47.00	11.89	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AC160MIMO_5250	Polarization	Horizontal
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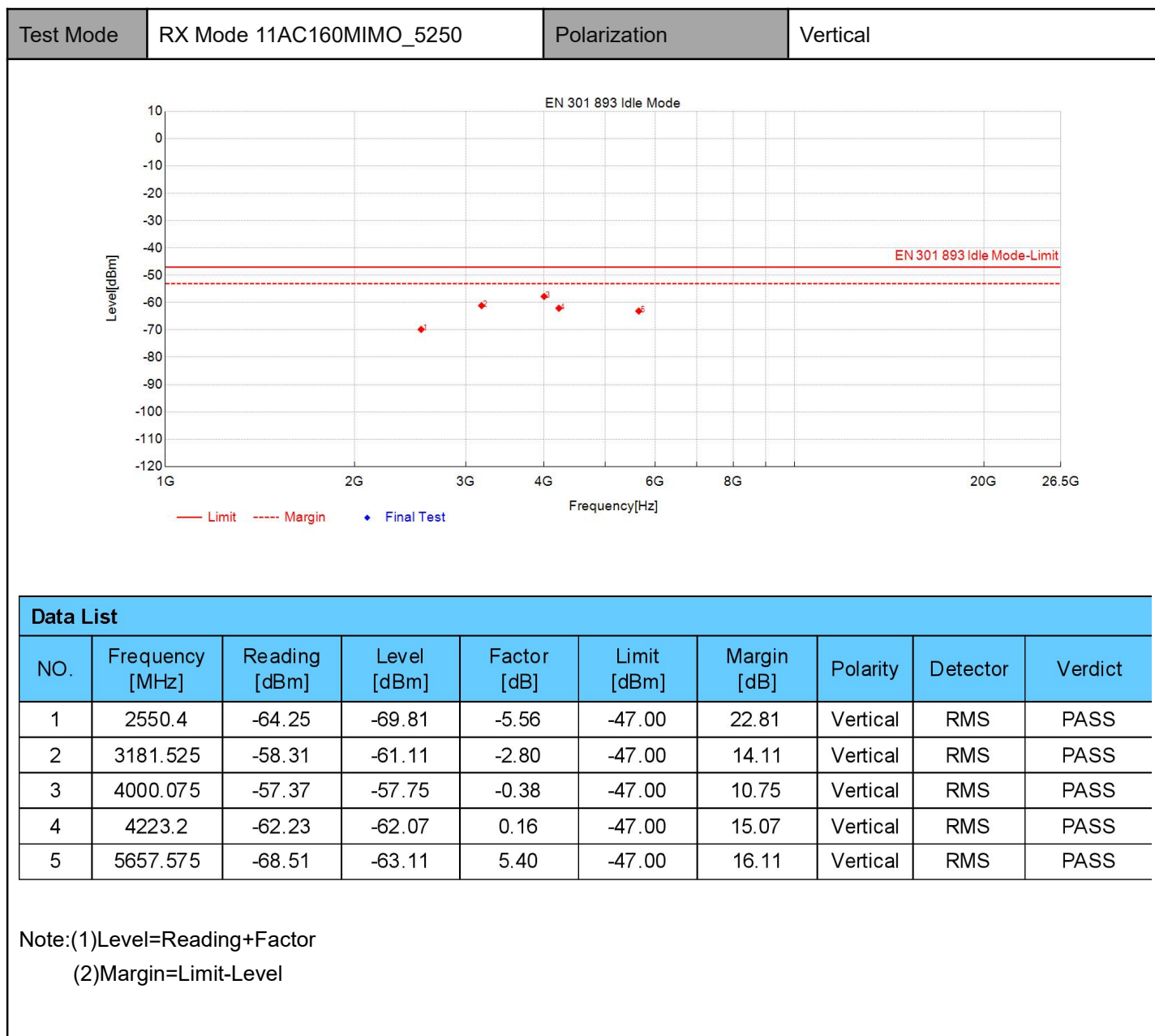


Data List

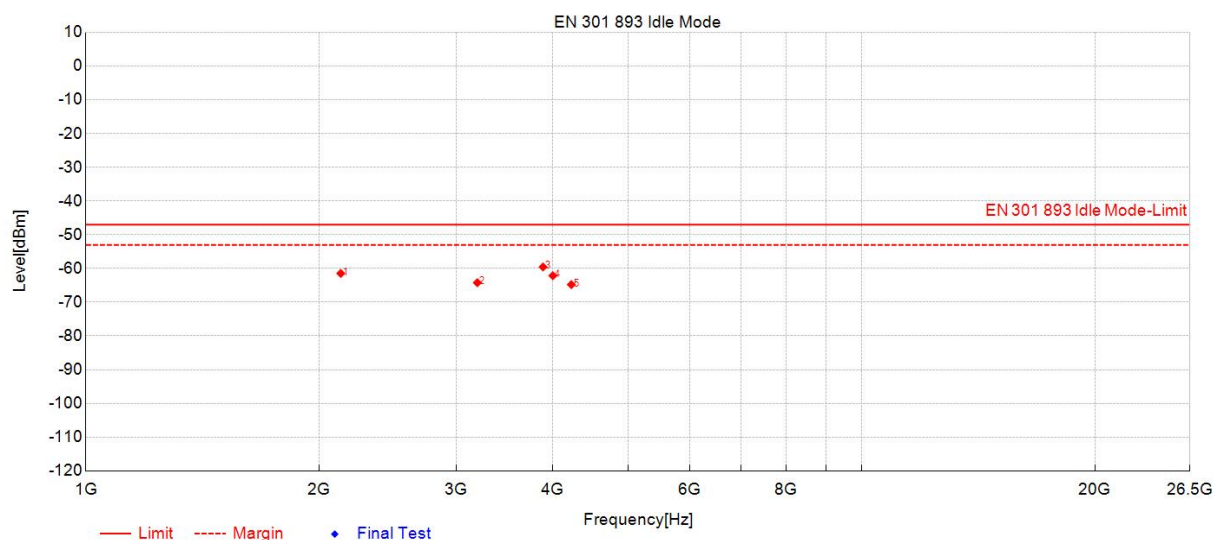
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2125.825	-54.87	-61.53	-6.66	-47.00	14.53	Horizon	RMS	PASS
2	2438.2	-54.31	-60.83	-6.52	-47.00	13.83	Horizon	RMS	PASS
3	3191.725	-61.74	-64.46	-2.72	-47.00	17.46	Horizon	RMS	PASS
4	3885.325	-58.63	-59.28	-0.65	-47.00	12.28	Horizon	RMS	PASS
5	4000.075	-54.71	-55.02	-0.31	-47.00	8.02	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AC160MIMO_5570	Polarization	Horizontal
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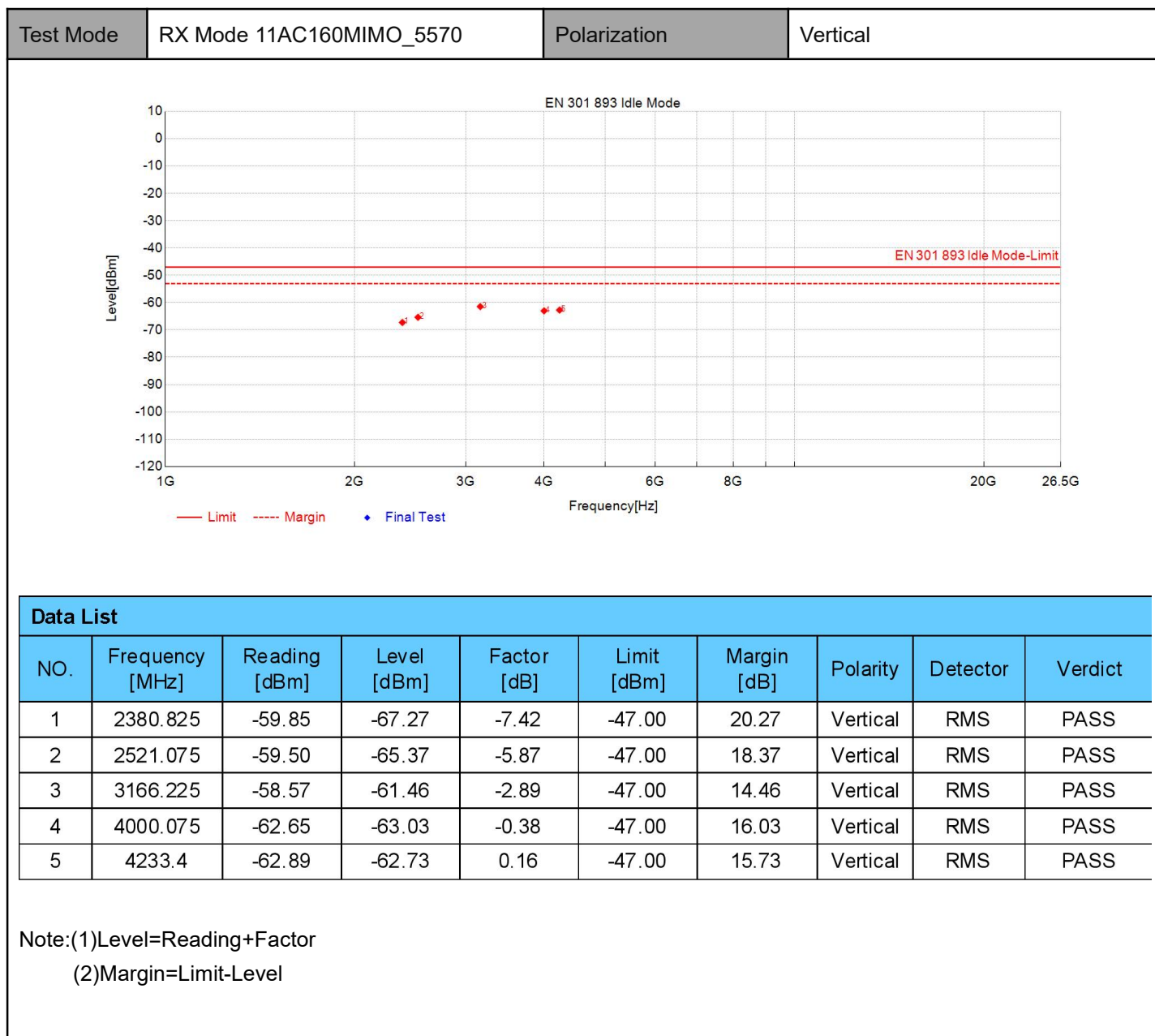


Data List

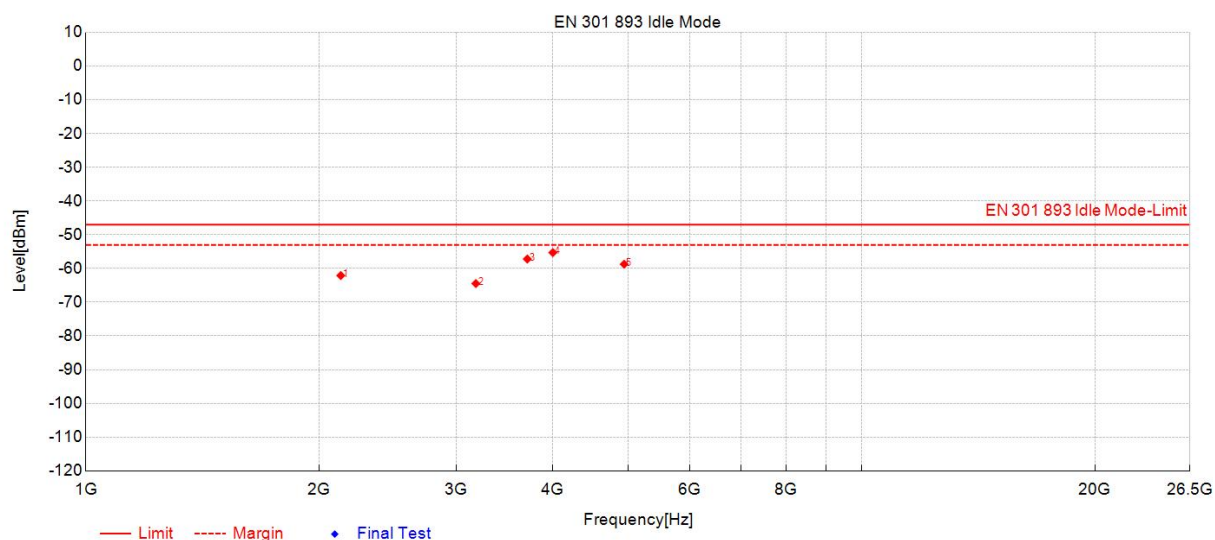
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2130.925	-54.78	-61.46	-6.68	-47.00	14.46	Horizon	RMS	PASS
2	3196.825	-61.51	-64.21	-2.70	-47.00	17.21	Horizon	RMS	PASS
3	3885.325	-58.90	-59.55	-0.65	-47.00	12.55	Horizon	RMS	PASS
4	4000.075	-61.83	-62.14	-0.31	-47.00	15.14	Horizon	RMS	PASS
5	4225.75	-64.75	-64.78	-0.03	-47.00	17.78	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AX20MIMO_5180	Polarization	Horizontal
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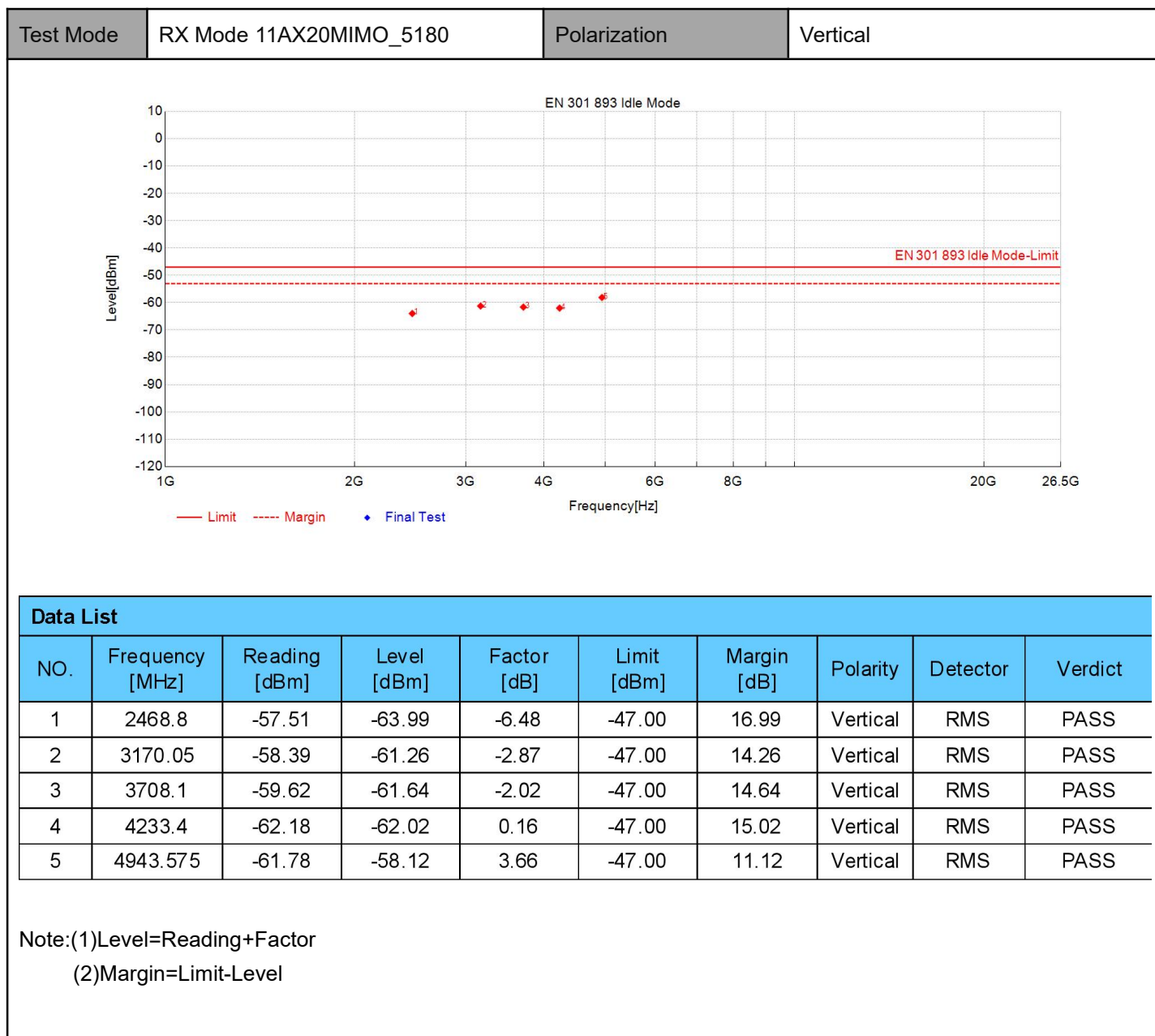


Data List

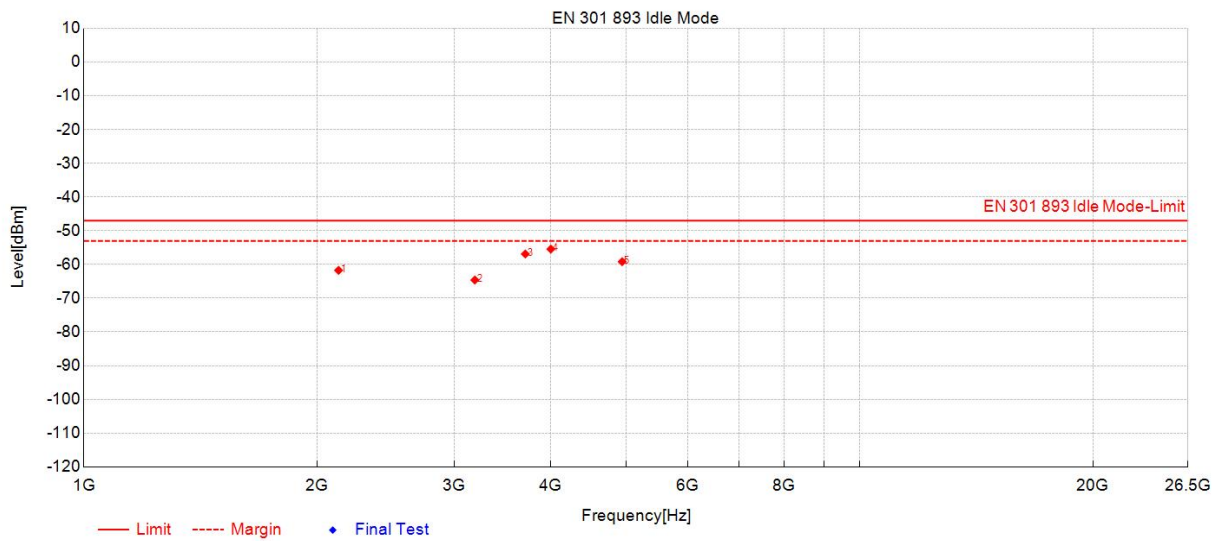
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2130.925	-55.41	-62.09	-6.68	-47.00	15.09	Horizon	RMS	PASS
2	3182.8	-61.72	-64.47	-2.75	-47.00	17.47	Horizon	RMS	PASS
3	3708.1	-55.03	-57.19	-2.16	-47.00	10.19	Horizon	RMS	PASS
4	4000.075	-54.98	-55.29	-0.31	-47.00	8.29	Horizon	RMS	PASS
5	4943.575	-62.33	-58.73	3.60	-47.00	11.73	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AX20MIMO_5320	Polarization	Horizontal
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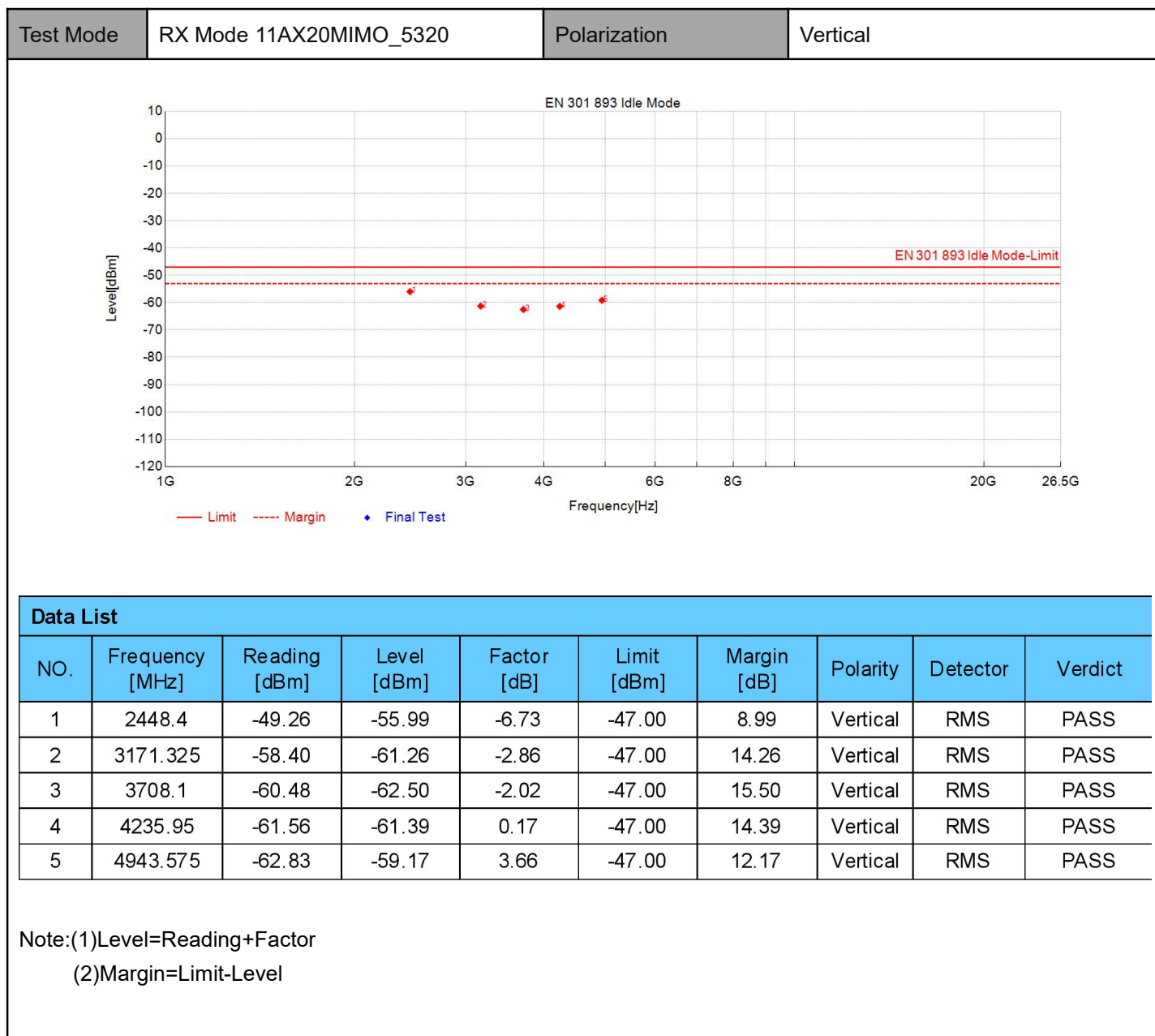


Data List

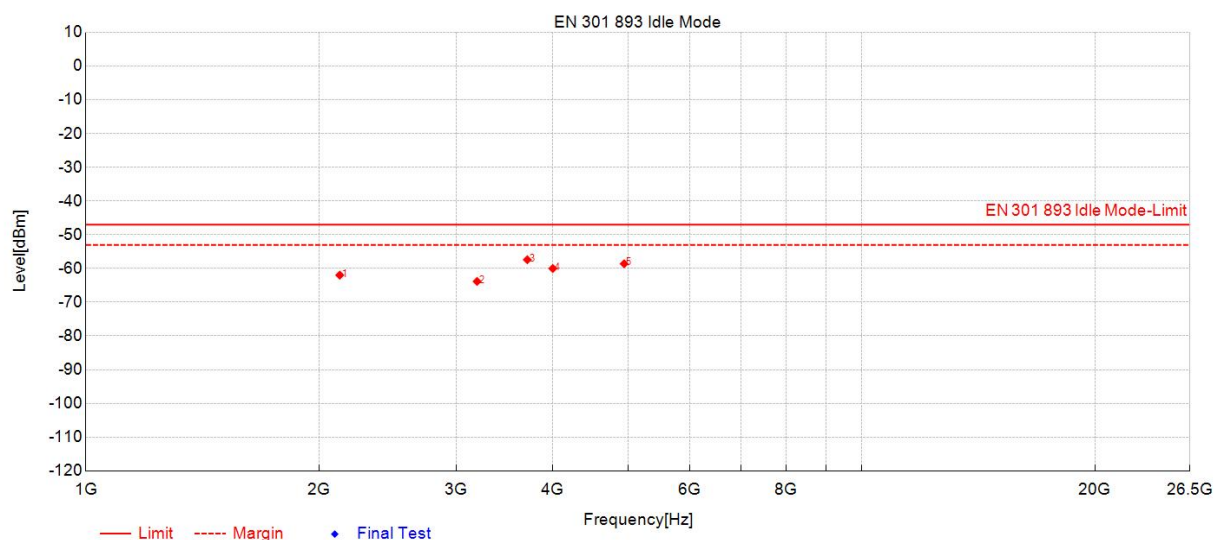
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2129.65	-55.06	-61.74	-6.68	-47.00	14.74	Horizon	RMS	PASS
2	3191.725	-61.89	-64.61	-2.72	-47.00	17.61	Horizon	RMS	PASS
3	3708.1	-54.73	-56.89	-2.16	-47.00	9.89	Horizon	RMS	PASS
4	4000.075	-55.13	-55.44	-0.31	-47.00	8.44	Horizon	RMS	PASS
5	4943.575	-62.78	-59.18	3.60	-47.00	12.18	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AX20MIMO_5500	Polarization	Horizontal
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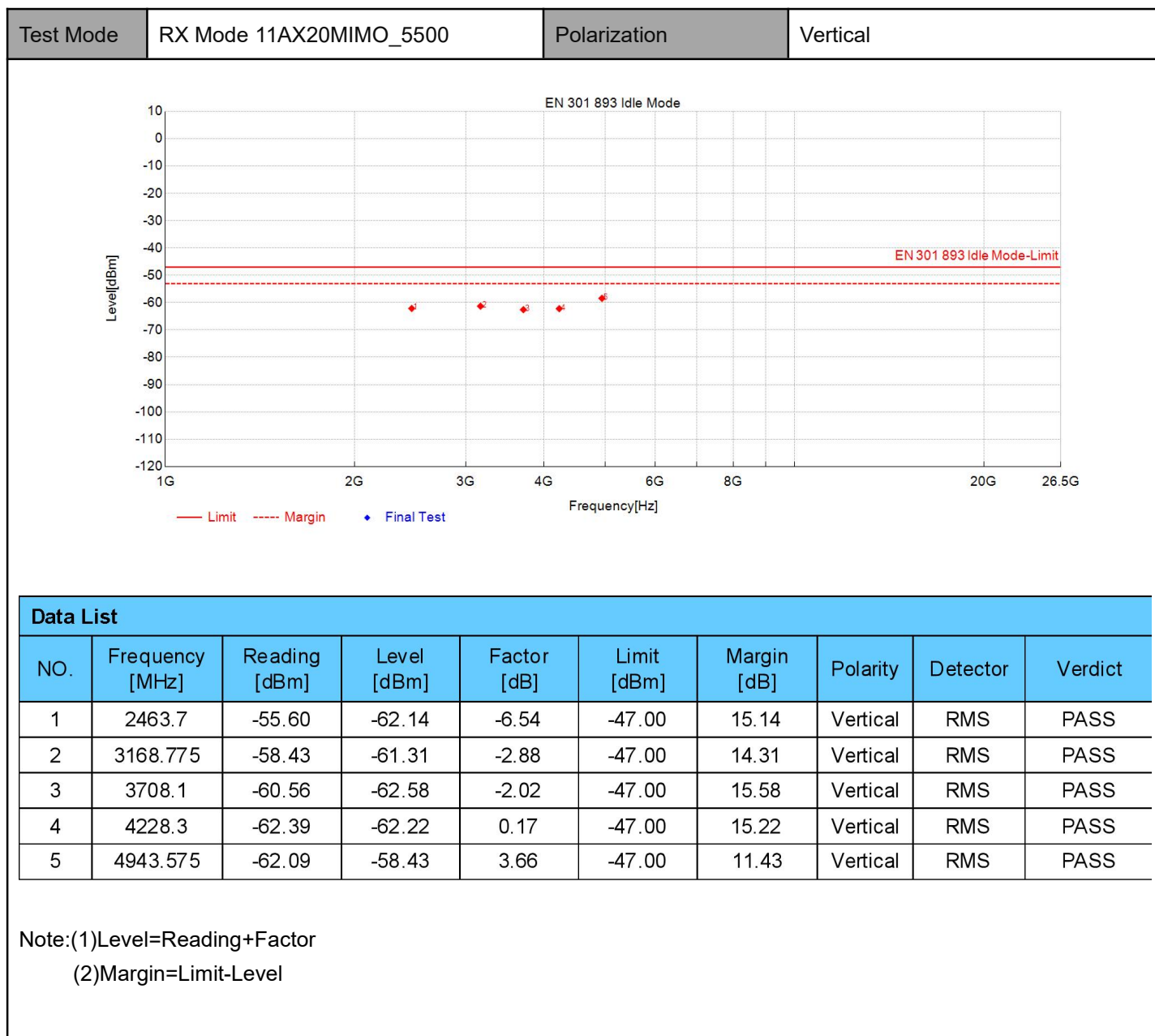


Data List

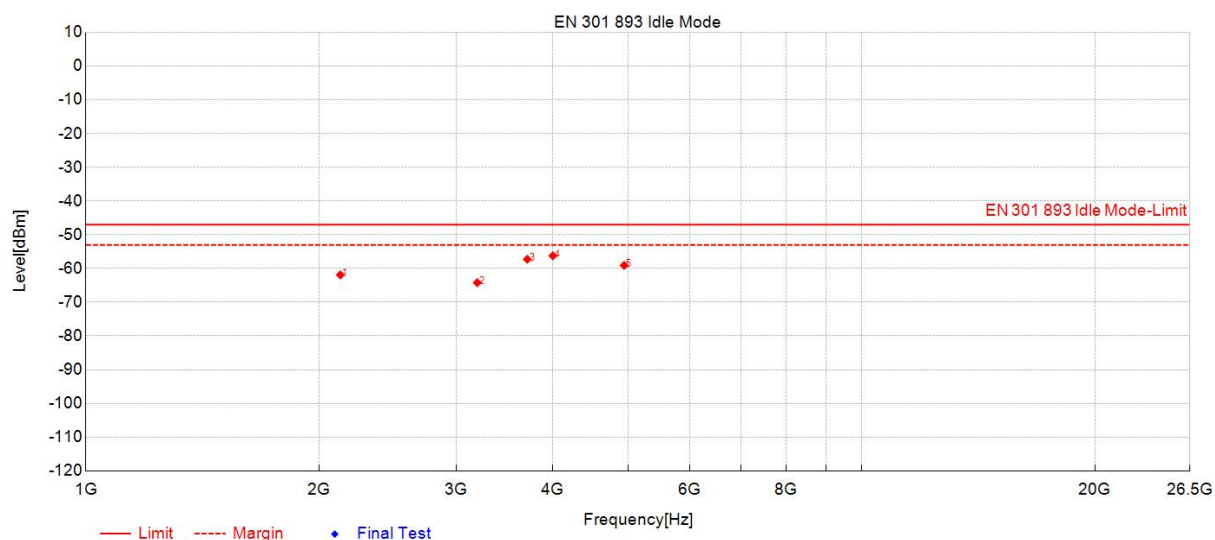
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2124.55	-55.31	-61.97	-6.66	-47.00	14.97	Horizon	RMS	PASS
2	3194.275	-61.12	-63.83	-2.71	-47.00	16.83	Horizon	RMS	PASS
3	3708.1	-55.24	-57.40	-2.16	-47.00	10.40	Horizon	RMS	PASS
4	4000.075	-59.70	-60.01	-0.31	-47.00	13.01	Horizon	RMS	PASS
5	4943.575	-62.20	-58.60	3.60	-47.00	11.60	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AX20MIMO_5700	Polarization	Horizontal
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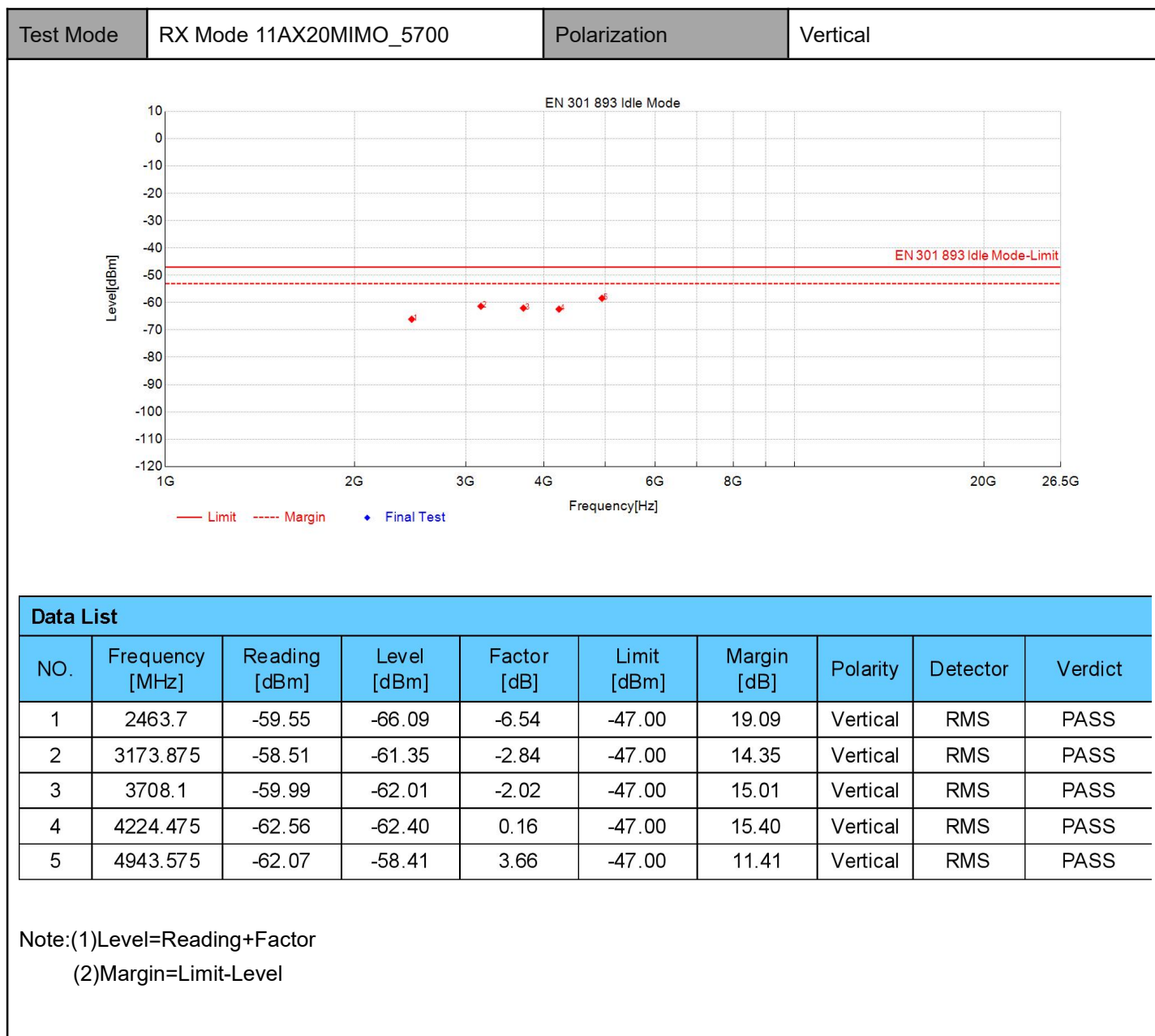


Data List

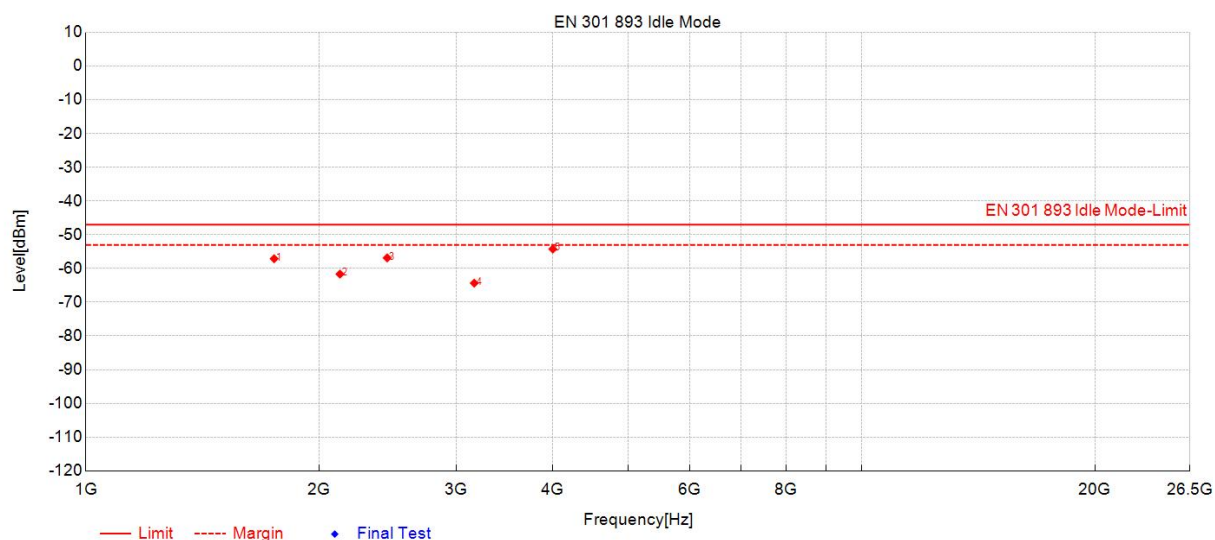
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2128.375	-55.22	-61.89	-6.67	-47.00	14.89	Horizon	RMS	PASS
2	3195.55	-61.50	-64.21	-2.71	-47.00	17.21	Horizon	RMS	PASS
3	3708.1	-55.11	-57.27	-2.16	-47.00	10.27	Horizon	RMS	PASS
4	4000.075	-55.93	-56.24	-0.31	-47.00	9.24	Horizon	RMS	PASS
5	4943.575	-62.70	-59.10	3.60	-47.00	12.10	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AX40MIMO_5190	Polarization	Horizontal
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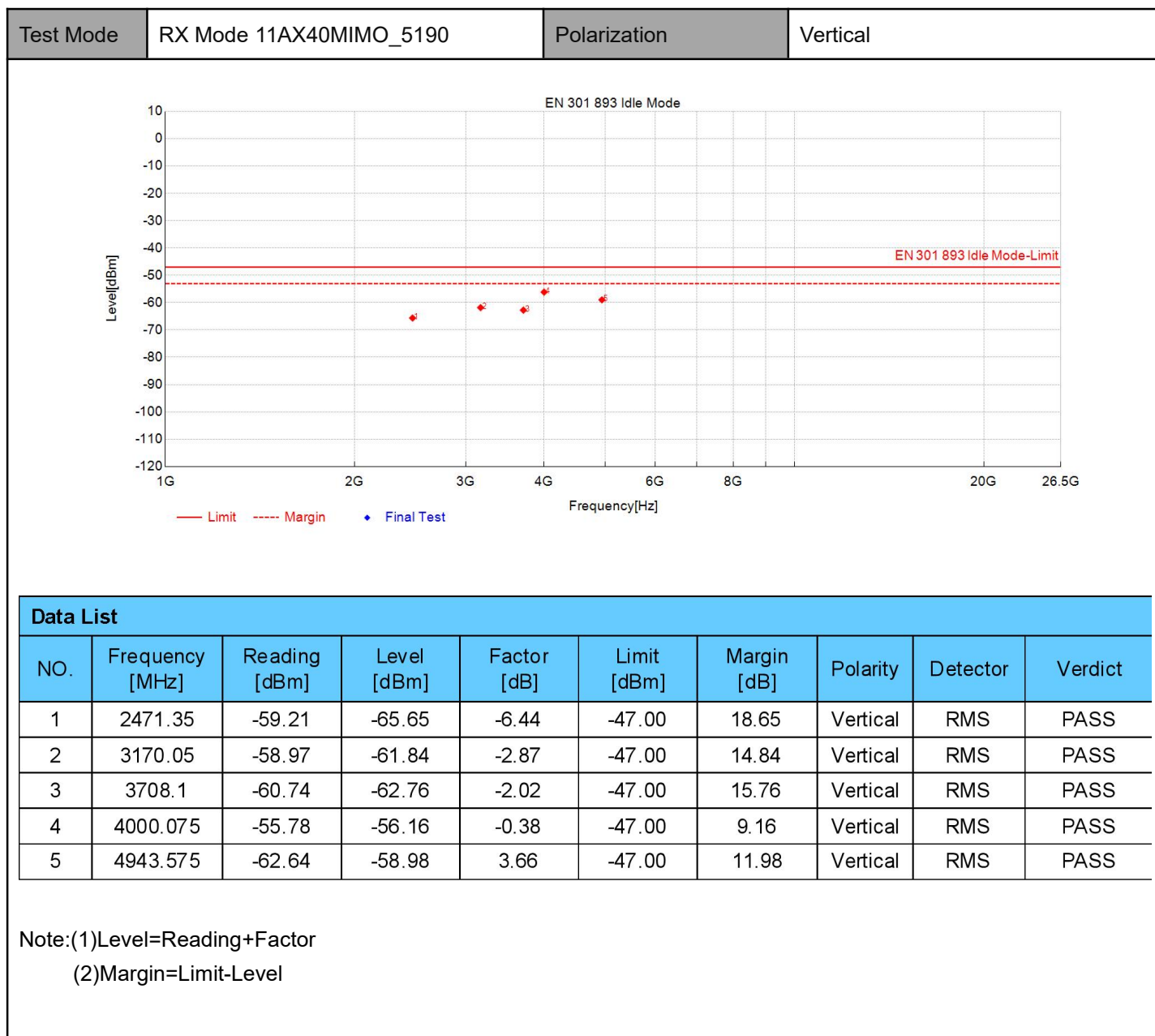


Data List

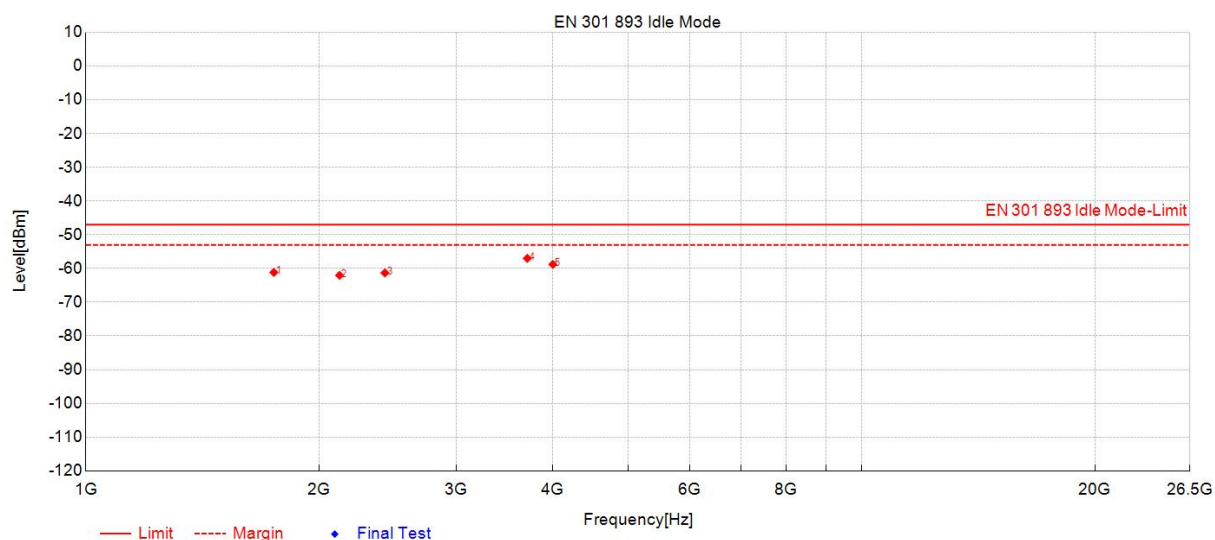
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1748.425	-45.19	-57.10	-11.91	-47.00	10.10	Horizon	RMS	PASS
2	2125.825	-55.01	-61.67	-6.66	-47.00	14.67	Horizon	RMS	PASS
3	2445.85	-50.37	-56.85	-6.48	-47.00	9.85	Horizon	RMS	PASS
4	3167.5	-61.55	-64.35	-2.80	-47.00	17.35	Horizon	RMS	PASS
5	4000.075	-53.93	-54.24	-0.31	-47.00	7.24	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AX40MIMO_5310	Polarization	Horizontal
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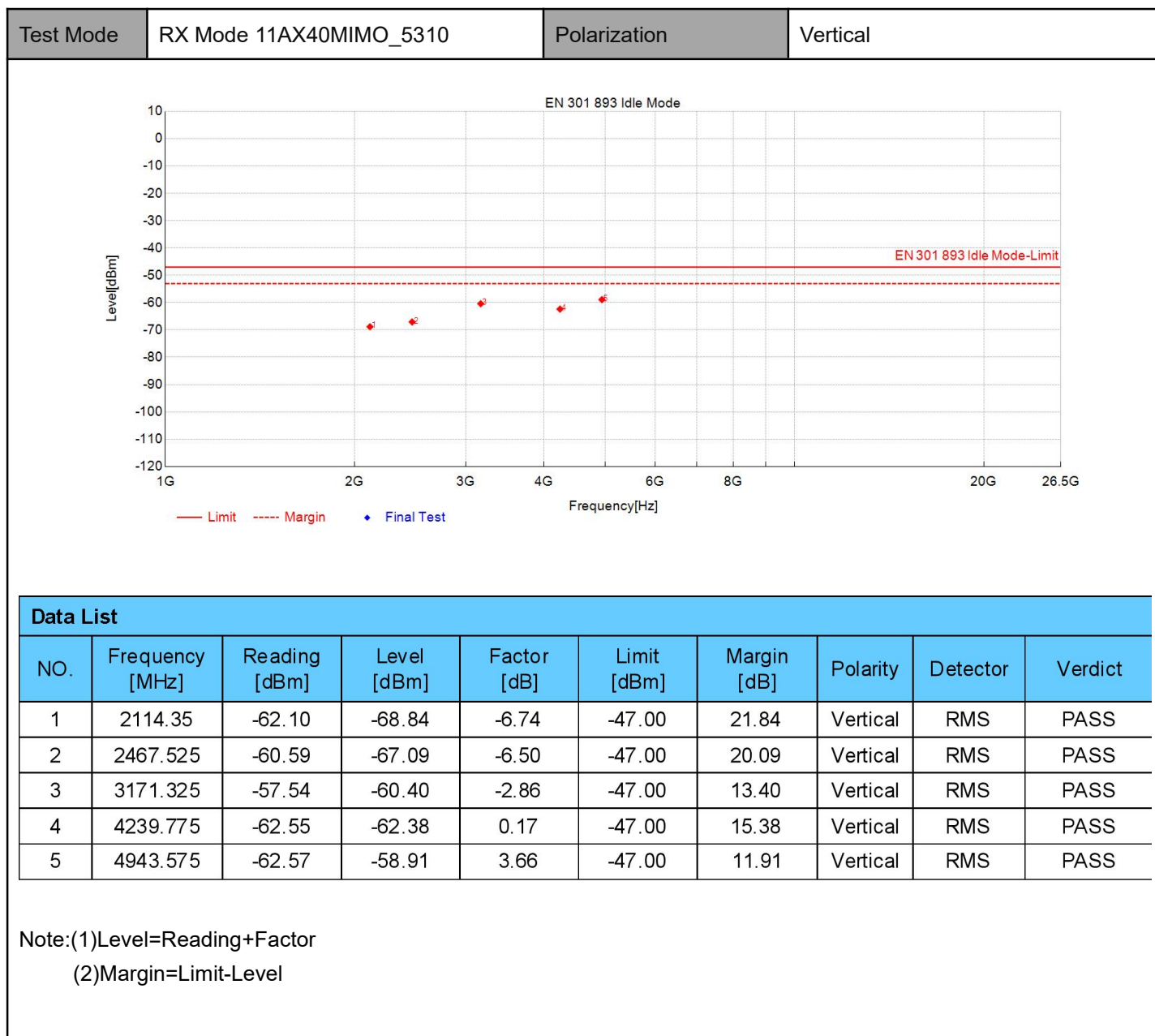


Data List

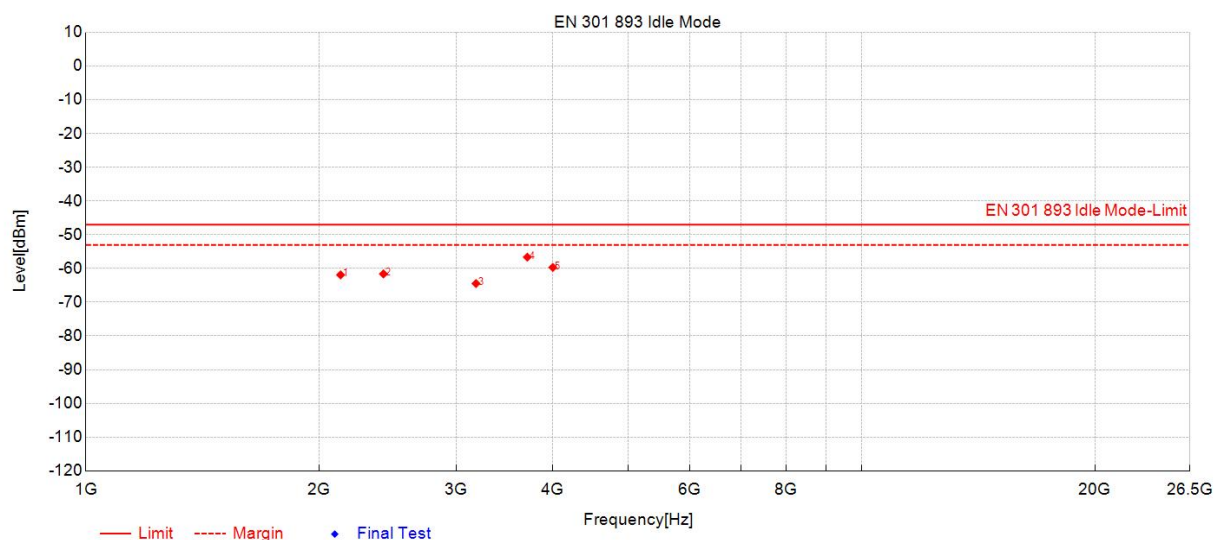
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1747.15	-49.26	-61.16	-11.90	-47.00	14.16	Horizon	RMS	PASS
2	2123.275	-55.36	-62.02	-6.66	-47.00	15.02	Horizon	RMS	PASS
3	2429.275	-54.72	-61.30	-6.58	-47.00	14.30	Horizon	RMS	PASS
4	3708.1	-54.84	-57.00	-2.16	-47.00	10.00	Horizon	RMS	PASS
5	4000.075	-58.47	-58.78	-0.31	-47.00	11.78	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AX40MIMO_5510	Polarization	Horizontal
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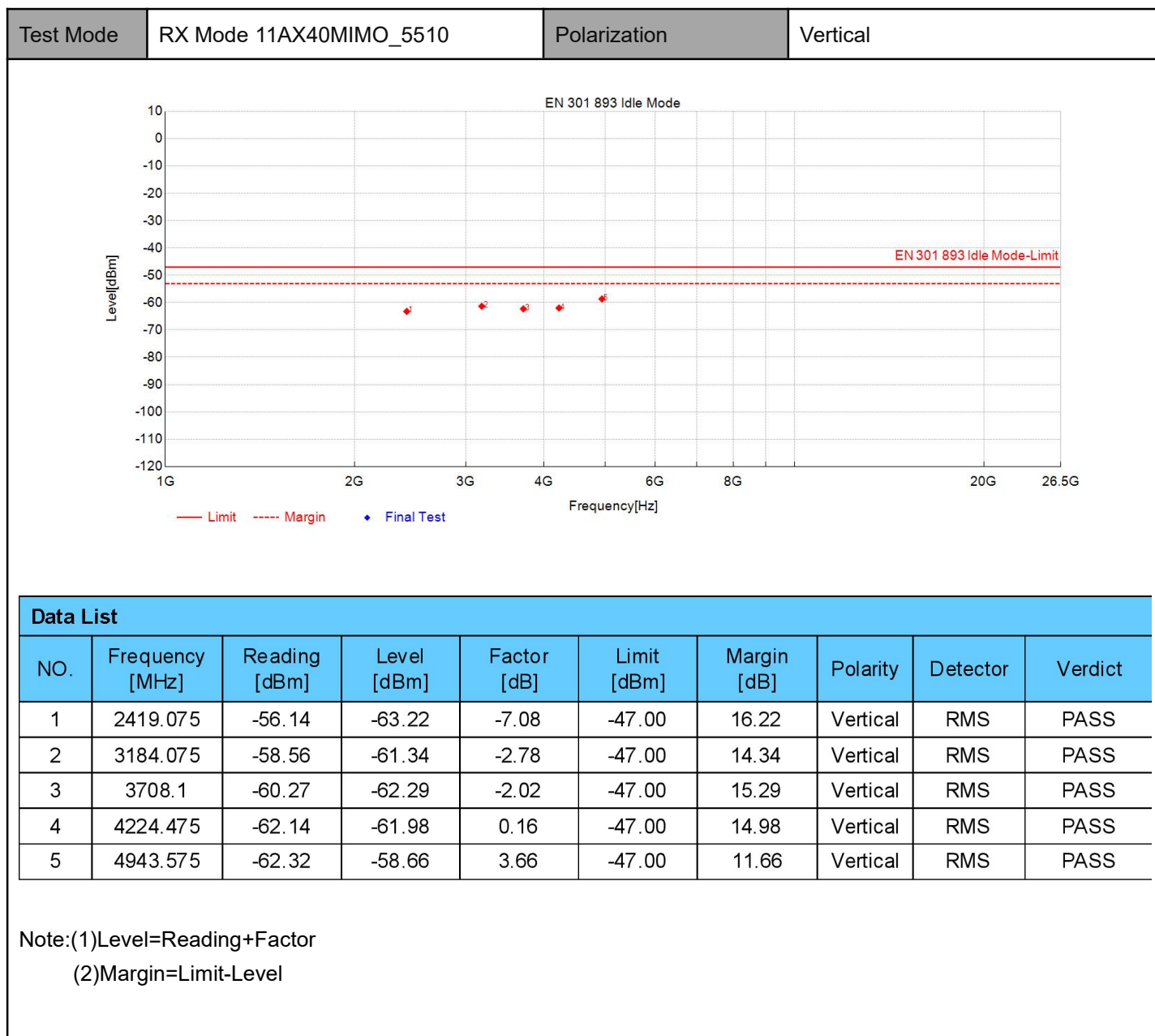


Data List

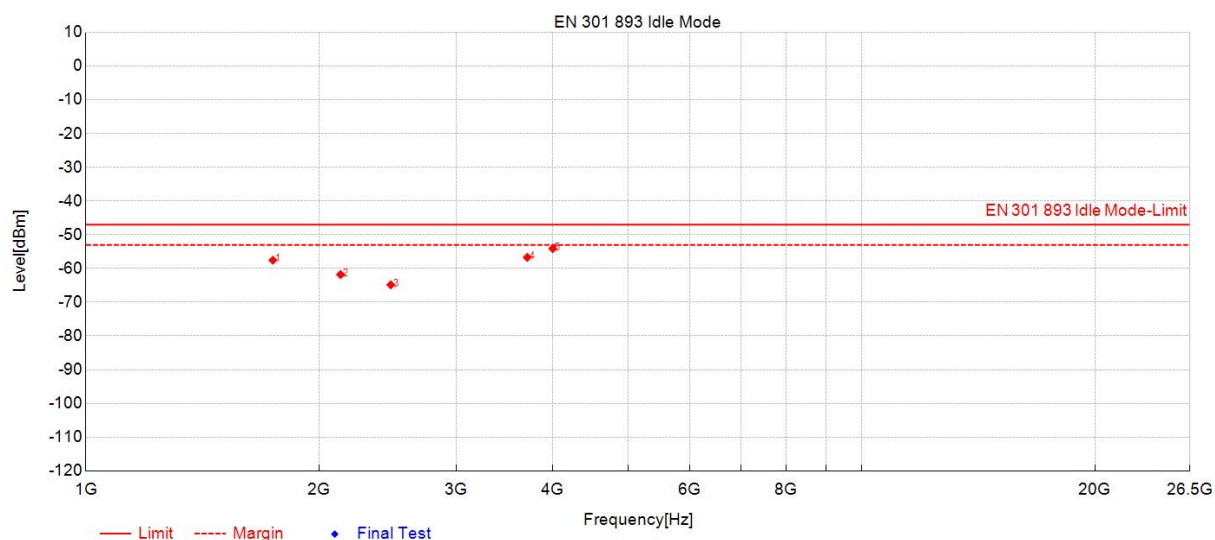
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2129.65	-55.21	-61.89	-6.68	-47.00	14.89	Horizon	RMS	PASS
2	2419.075	-54.97	-61.61	-6.64	-47.00	14.61	Horizon	RMS	PASS
3	3184.075	-61.72	-64.46	-2.74	-47.00	17.46	Horizon	RMS	PASS
4	3708.1	-54.48	-56.64	-2.16	-47.00	9.64	Horizon	RMS	PASS
5	4000.075	-59.37	-59.68	-0.31	-47.00	12.68	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AX40MIMO_5670	Polarization	Horizontal
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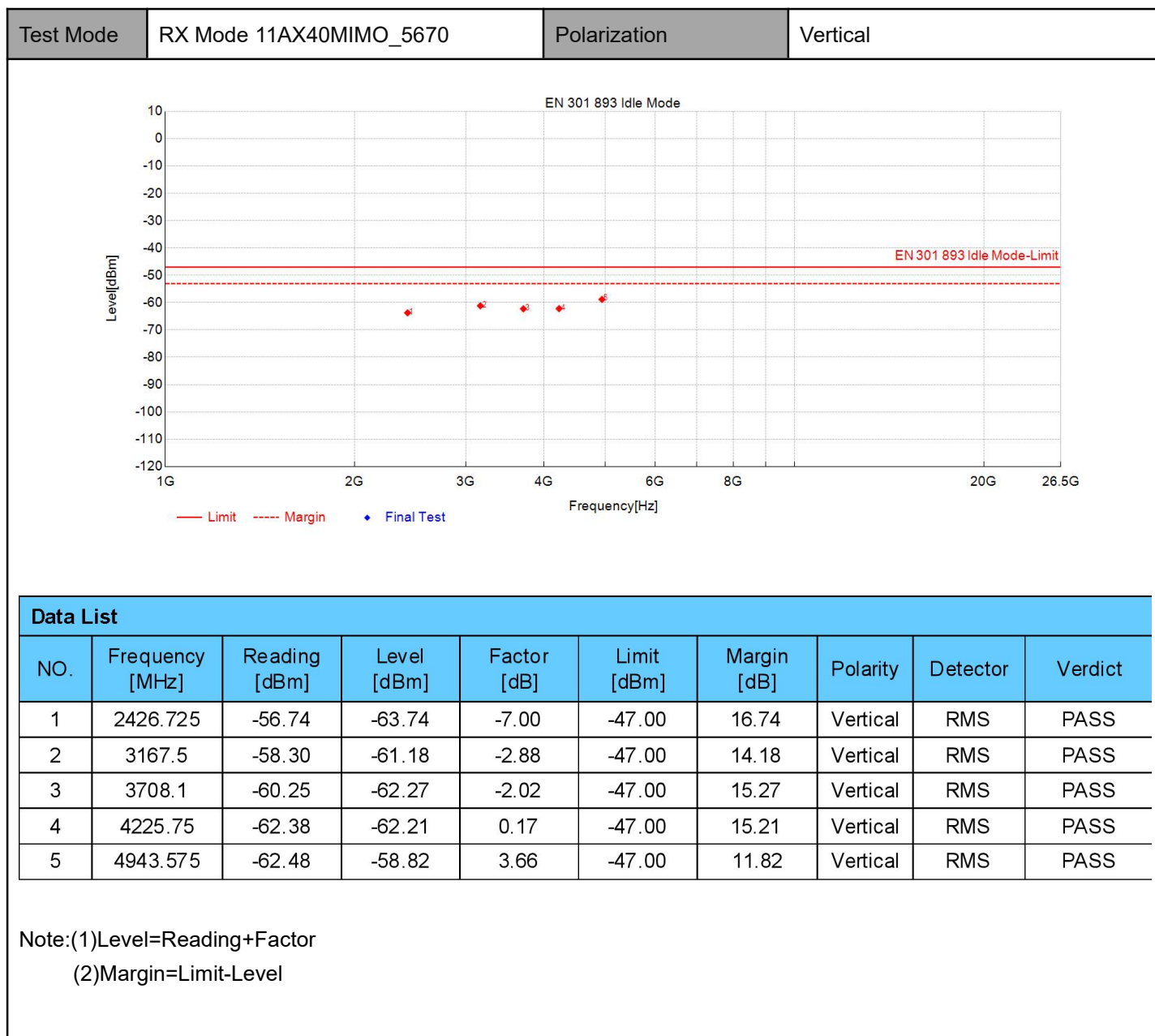


Data List

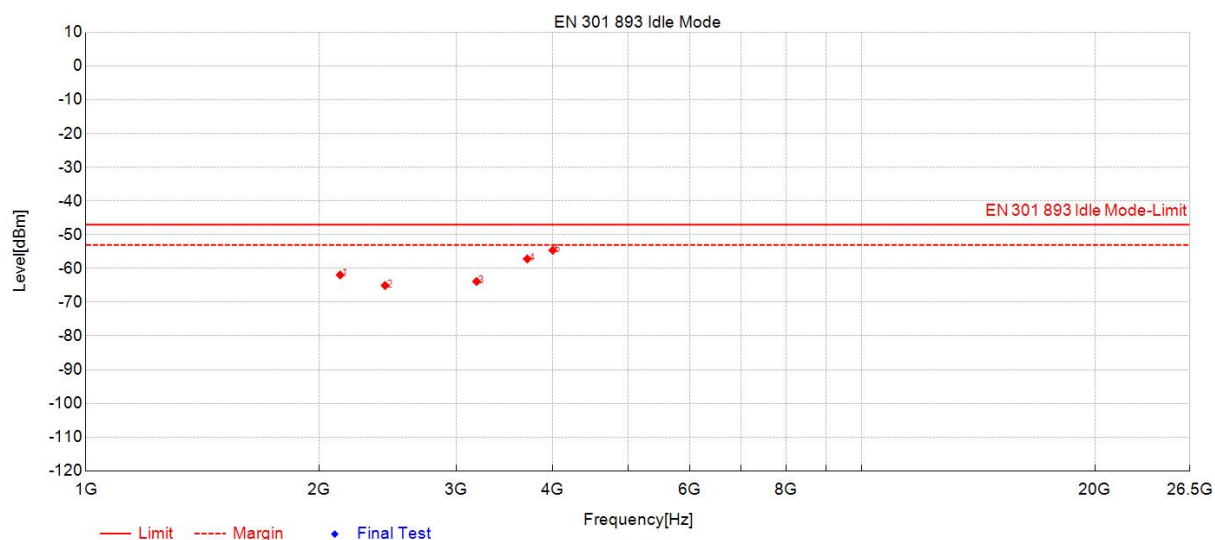
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1742.05	-45.63	-57.55	-11.92	-47.00	10.55	Horizon	RMS	PASS
2	2129.65	-55.12	-61.80	-6.68	-47.00	14.80	Horizon	RMS	PASS
3	2472.625	-58.53	-64.84	-6.31	-47.00	17.84	Horizon	RMS	PASS
4	3708.1	-54.55	-56.71	-2.16	-47.00	9.71	Horizon	RMS	PASS
5	4000.075	-53.79	-54.10	-0.31	-47.00	7.10	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AX80MIMO_5210	Polarization	Horizontal
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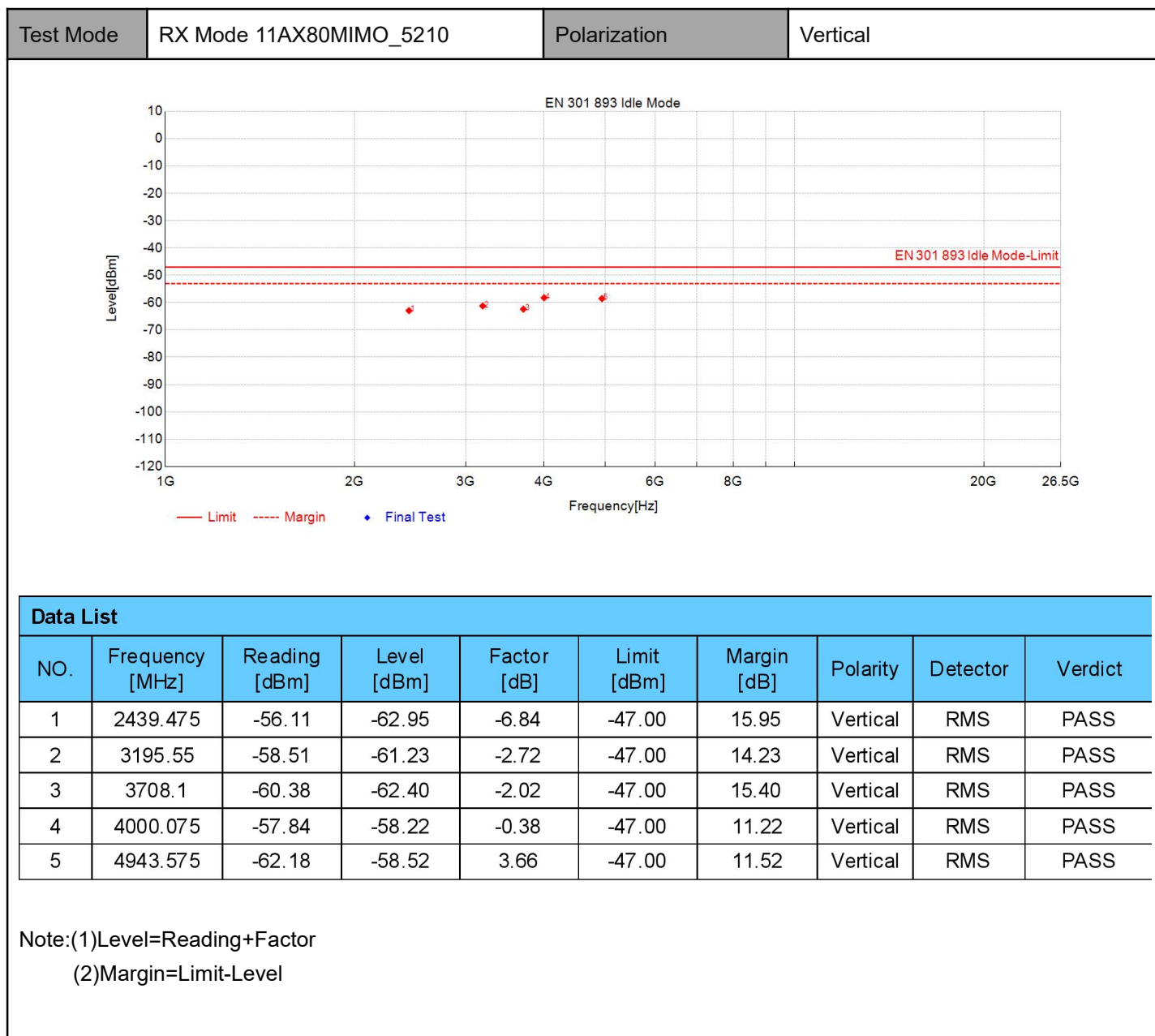


Data List

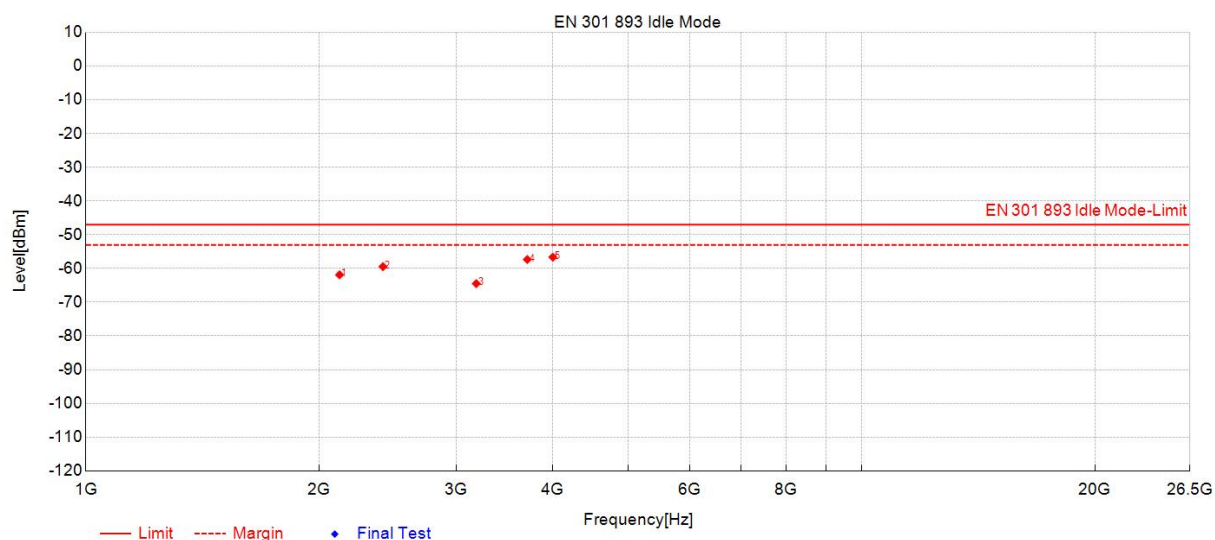
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2127.1	-55.25	-61.92	-6.67	-47.00	14.92	Horizon	RMS	PASS
2	2430.55	-58.45	-65.03	-6.58	-47.00	18.03	Horizon	RMS	PASS
3	3190.45	-61.13	-63.85	-2.72	-47.00	16.85	Horizon	RMS	PASS
4	3708.1	-55.00	-57.16	-2.16	-47.00	10.16	Horizon	RMS	PASS
5	4000.075	-54.29	-54.60	-0.31	-47.00	7.60	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AX80MIMO_5290	Polarization	Horizontal
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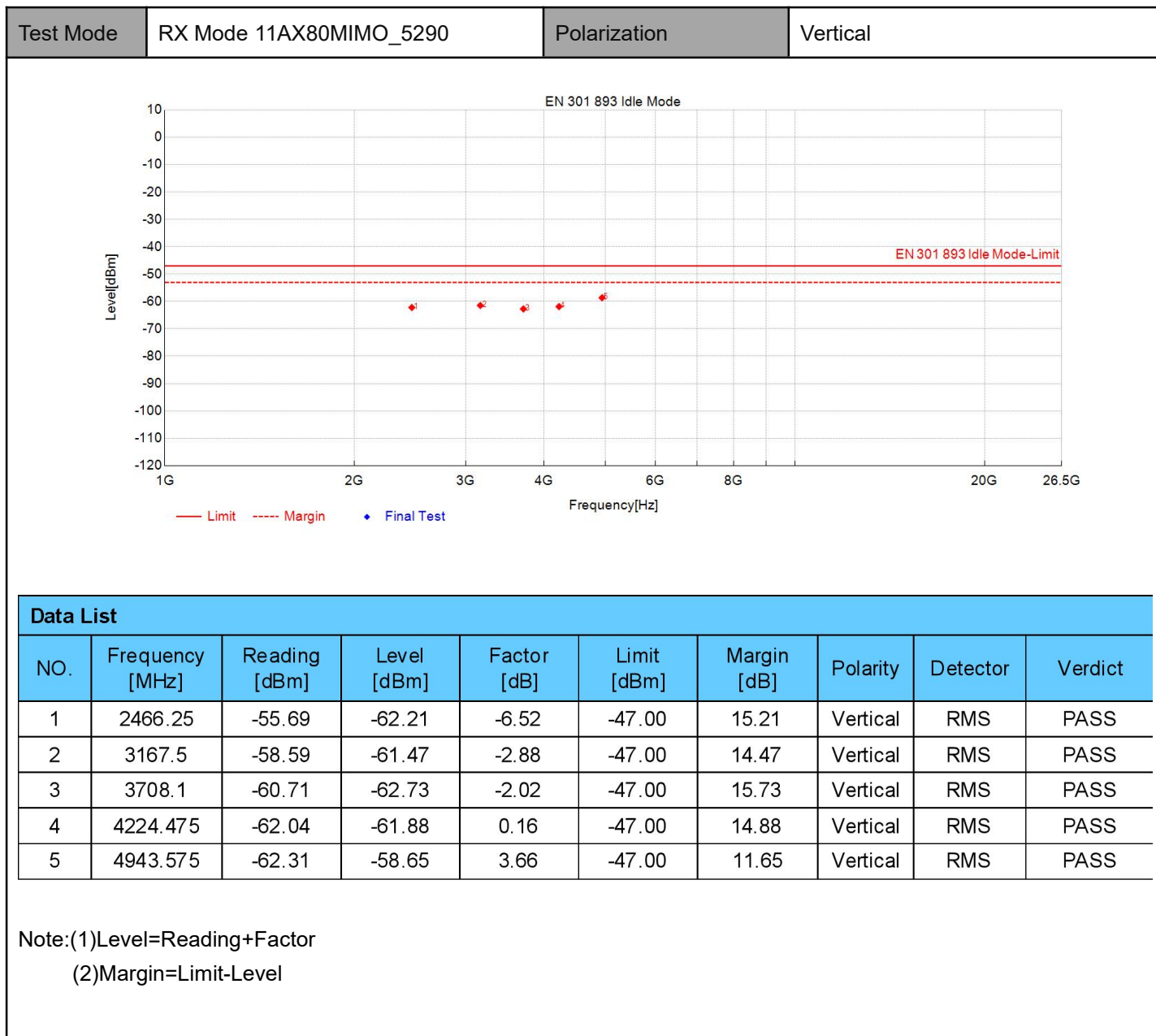


Data List

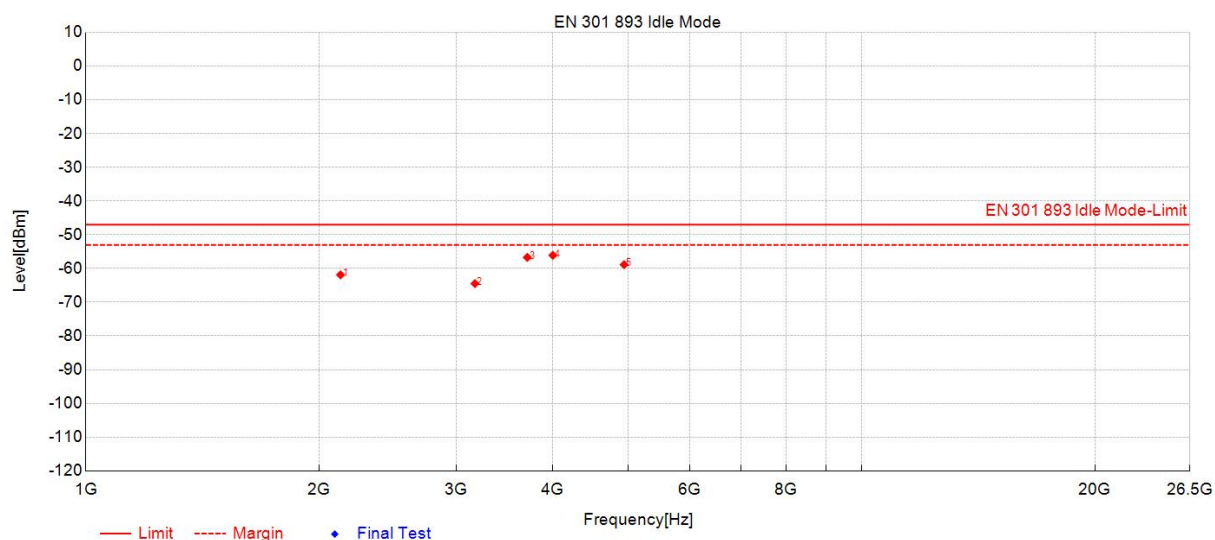
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2123.275	-55.22	-61.88	-6.66	-47.00	14.88	Horizon	RMS	PASS
2	2415.25	-52.78	-59.45	-6.67	-47.00	12.45	Horizon	RMS	PASS
3	3186.625	-61.74	-64.48	-2.74	-47.00	17.48	Horizon	RMS	PASS
4	3708.1	-55.18	-57.34	-2.16	-47.00	10.34	Horizon	RMS	PASS
5	4000.075	-56.33	-56.64	-0.31	-47.00	9.64	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AX80MIMO_5530	Polarization	Horizontal
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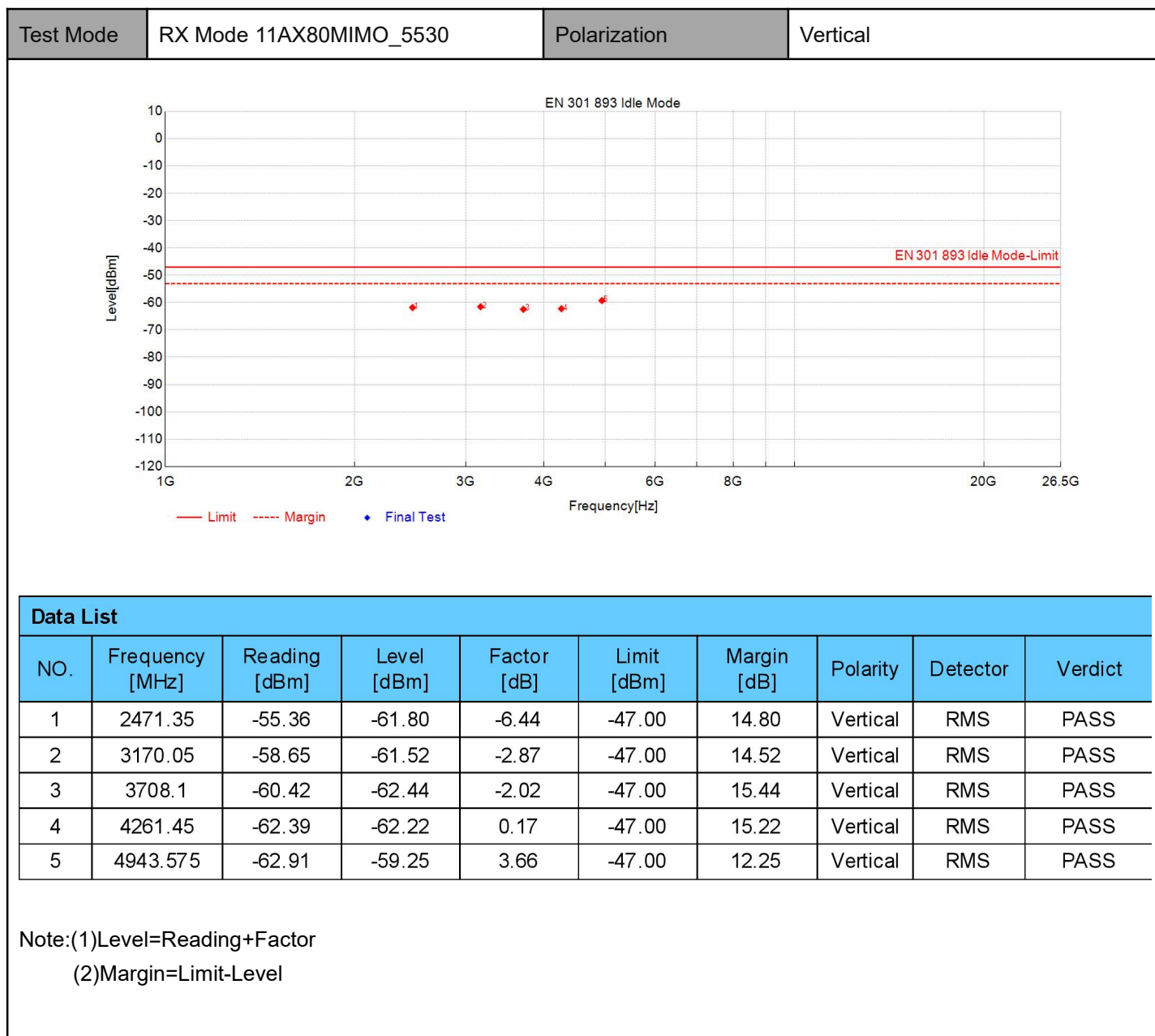


Data List

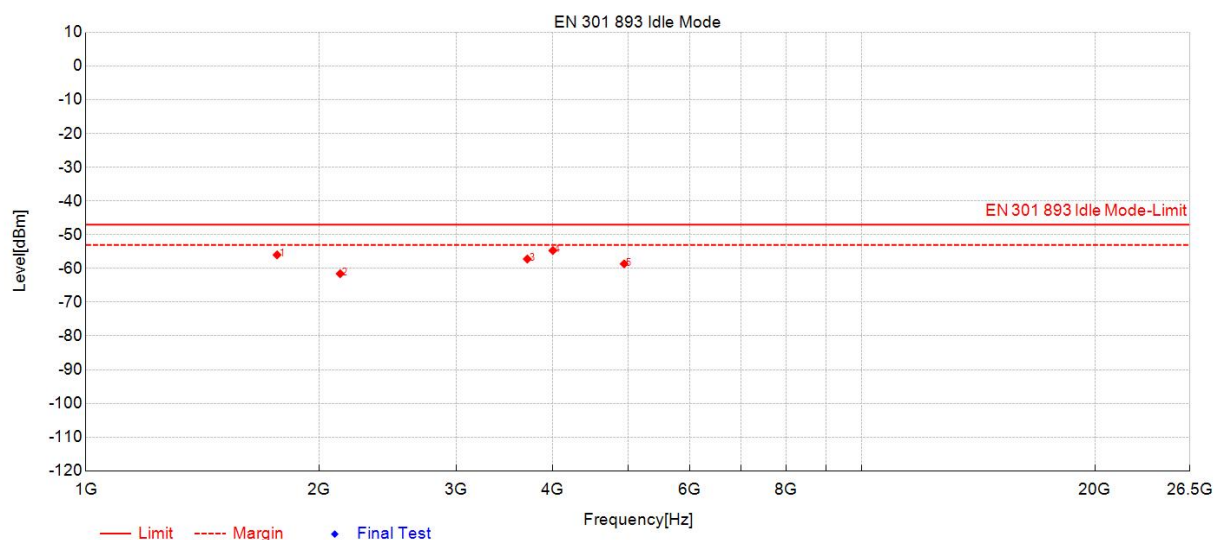
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	2129.65	-55.20	-61.88	-6.68	-47.00	14.88	Horizon	RMS	PASS
2	3173.875	-61.71	-64.48	-2.77	-47.00	17.48	Horizon	RMS	PASS
3	3708.1	-54.56	-56.72	-2.16	-47.00	9.72	Horizon	RMS	PASS
4	4000.075	-55.79	-56.10	-0.31	-47.00	9.10	Horizon	RMS	PASS
5	4943.575	-62.47	-58.87	3.60	-47.00	11.87	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AX80MIMO_5610	Polarization	Horizontal
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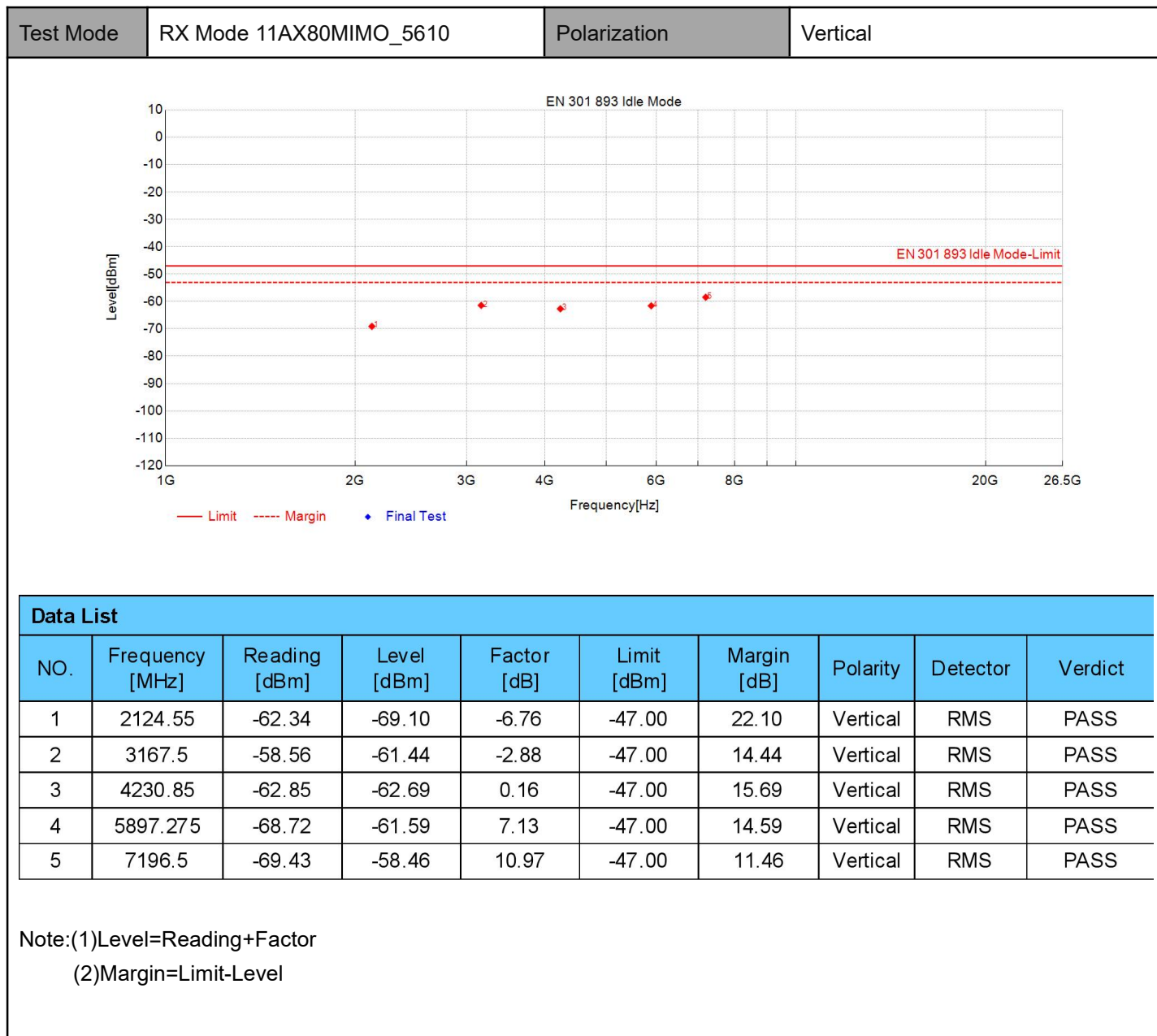


Data List

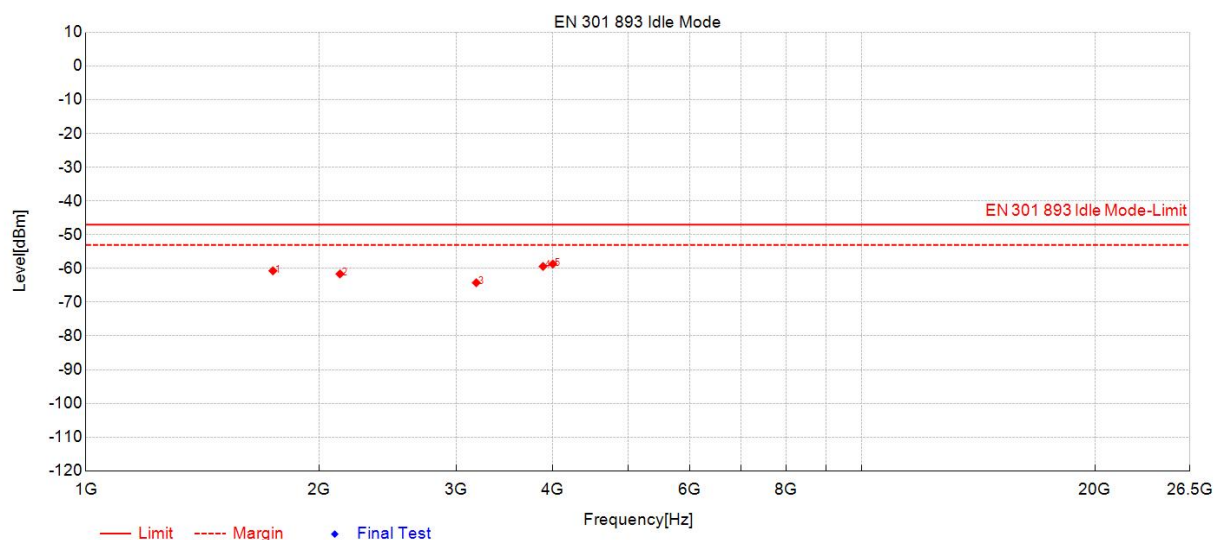
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1763.725	-44.09	-55.97	-11.88	-47.00	8.97	Horizon	RMS	PASS
2	2127.1	-54.88	-61.55	-6.67	-47.00	14.55	Horizon	RMS	PASS
3	3708.1	-55.03	-57.19	-2.16	-47.00	10.19	Horizon	RMS	PASS
4	4000.075	-54.37	-54.68	-0.31	-47.00	7.68	Horizon	RMS	PASS
5	4943.575	-62.23	-58.63	3.60	-47.00	11.63	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AX160MIMO_5250	Polarization	Horizontal
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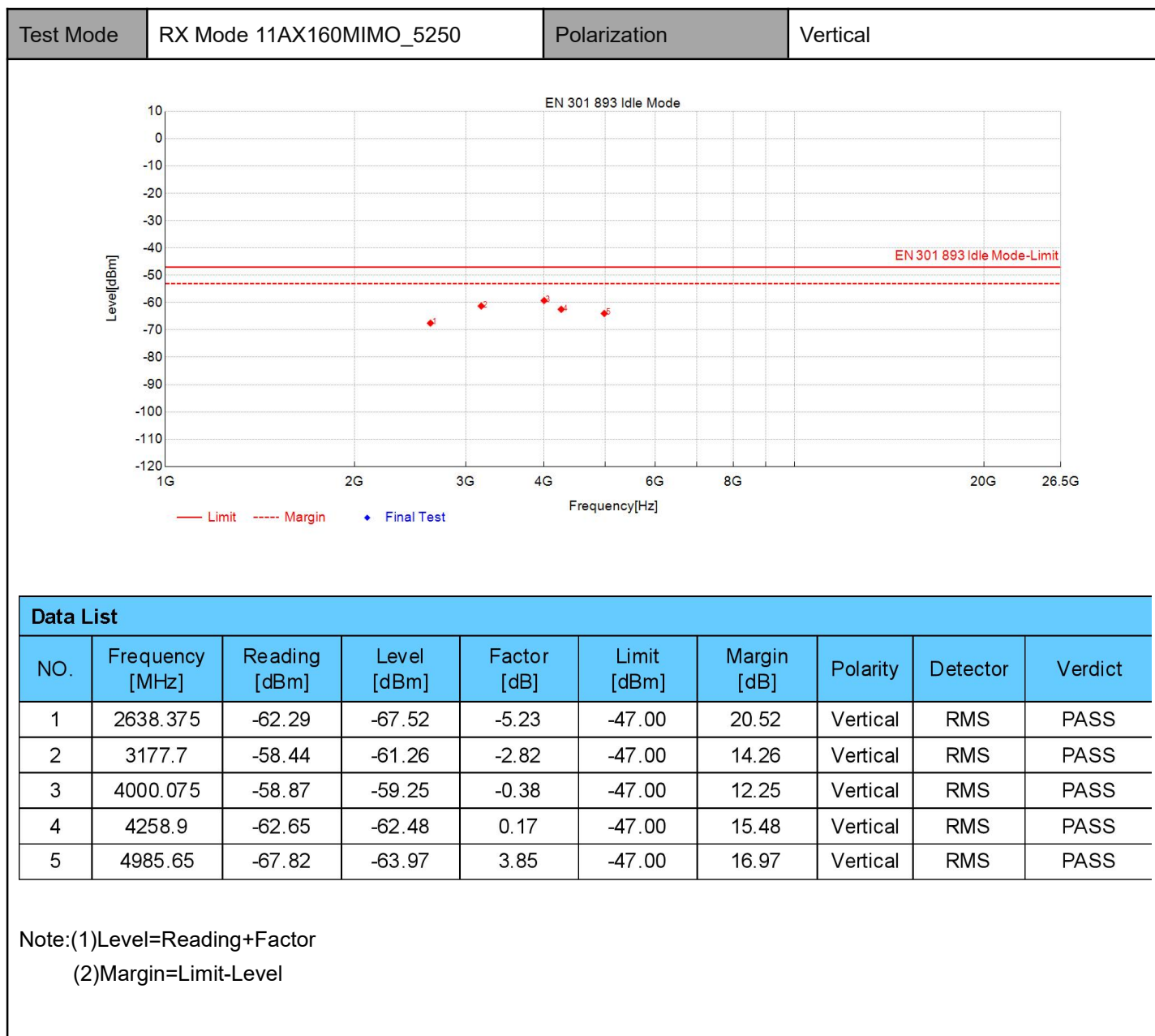


Data List

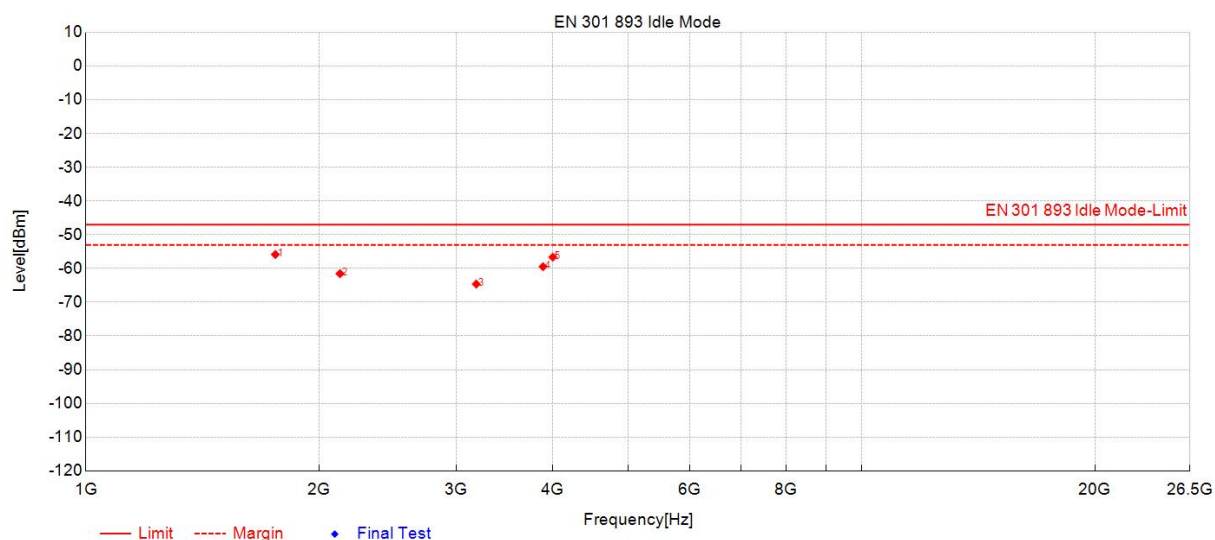
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1742.05	-48.78	-60.70	-11.92	-47.00	13.70	Horizon	RMS	PASS
2	2125.825	-54.96	-61.62	-6.66	-47.00	14.62	Horizon	RMS	PASS
3	3186.625	-61.48	-64.22	-2.74	-47.00	17.22	Horizon	RMS	PASS
4	3885.325	-58.73	-59.38	-0.65	-47.00	12.38	Horizon	RMS	PASS
5	4000.075	-58.37	-58.68	-0.31	-47.00	11.68	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Test Mode	RX Mode 11AX160MIMO_5570	Polarization	Horizontal
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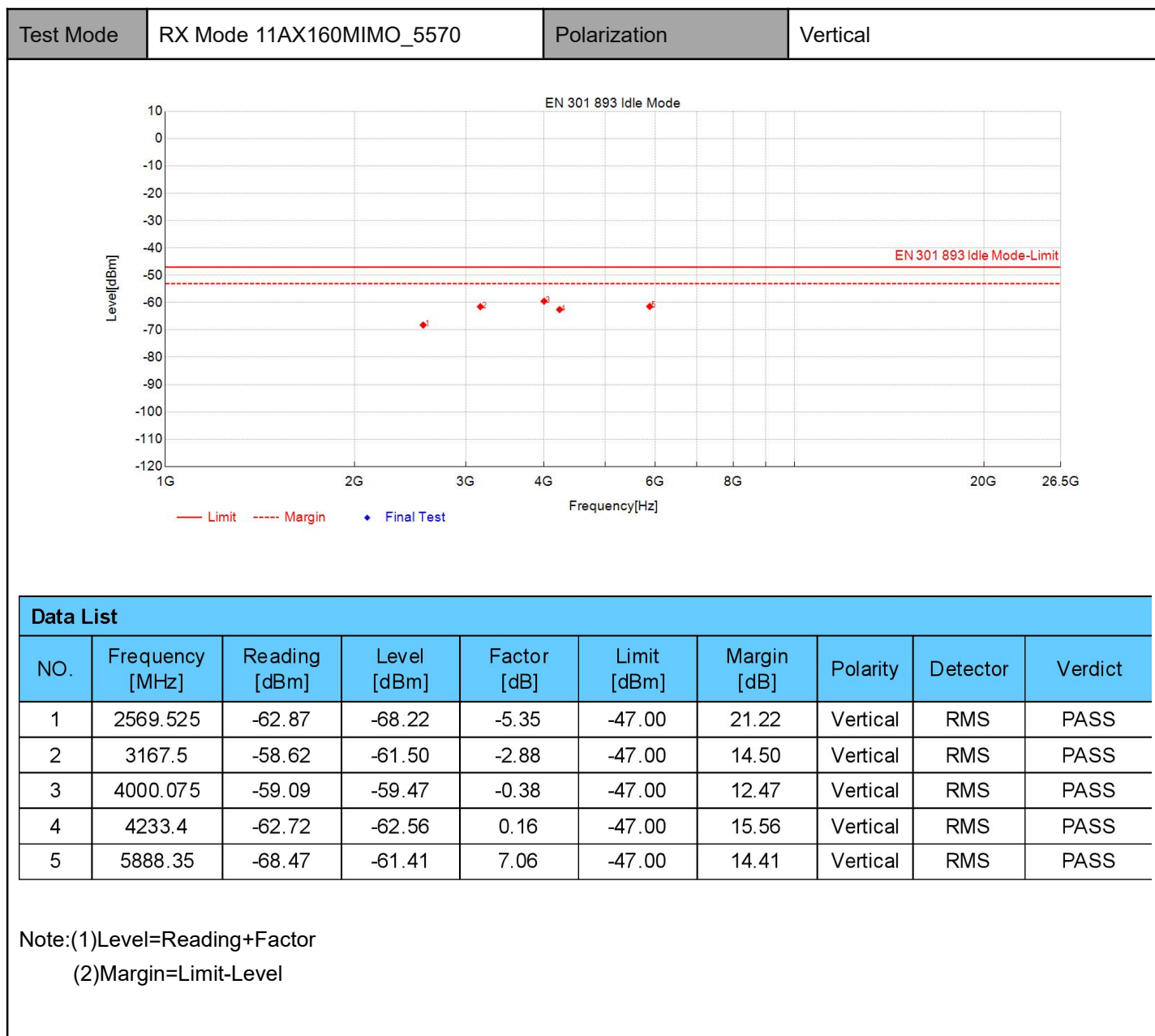


Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1754.8	-43.96	-55.85	-11.89	-47.00	8.85	Horizon	RMS	PASS
2	2125.825	-54.87	-61.53	-6.66	-47.00	14.53	Horizon	RMS	PASS
3	3186.625	-61.88	-64.62	-2.74	-47.00	17.62	Horizon	RMS	PASS
4	3885.325	-58.81	-59.46	-0.65	-47.00	12.46	Horizon	RMS	PASS
5	4000.075	-56.32	-56.63	-0.31	-47.00	9.63	Horizon	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



3.8 Dynamic Frequency Selection (DFS) (Refer to clause 4.2.6)

3.8.1 Applicability of DFS requirements

Table 6: Applicability of DFS requirements

Requirement	DFS Operational mode		
	Master	Slave without radar detection (see table D.2, note 2)	Slave with radar detection (see table D.2, note 2)
Channel Availability Check	Required	Not required	Required (see note 2)
Off-Channel CAC (see note 1)	Required	Not required	Required (see note 2)
In-Service Monitoring	Required	Not required	Required
Channel Shutdown	Required	Required	Required
Non-Occupancy Period	Required	Not required	Required
Uniform Spreading	Required	Not required	Not required
NOTE 1: Where implemented by the manufacturer.			
NOTE 2: A slave with radar detection is not required to perform a CAC or <i>Off-Channel CAC</i> at initial use of the channel but only after the slave has detected a radar signal on the <i>Operating Channel</i> by <i>In-Service Monitoring</i> and the <i>Non-Occupancy Period</i> resulting from this detection has elapsed.			

3.8.2 Limit

DFS Limit	
Table D.1: DFS requirement values	
Parameter	Value
Channel Availability Check Time	60 s (see note 1)
Minimum Off-Channel CAC Time	6 minutes (see note 2)
Maximum Off-Channel CAC Time	4 hours (see note 2)
Channel Move Time	10 s
Channel Closing Transmission Time	1 s
Non-Occupancy Period	30 minutes
NOTE 1: For channels whose nominal bandwidth falls completely or partly within the band 5 600 MHz to 5 650 MHz, the <i>Channel Availability Check Time</i> shall be 10 minutes.	
NOTE 2: For channels whose nominal bandwidth falls completely or partly within the band 5 600 MHz to 5 650 MHz, the <i>Off-Channel CAC Time</i> shall be within the range 1 hour to 24 hours.	

Table D.2: Radar Detection Threshold Levels

e.i.r.p. Spectral Density (dBm/MHz)	Value (see note 1 and note 2)
10	-62 dBm
NOTE 1: This is the level at the input of the receiver of an RLAN device with a maximum e.i.r.p. density of 10 dBm/MHz and assuming a 0 dBi receive antenna. For devices employing different e.i.r.p. spectral density and/or a different receive antenna gain G (dBi) the Radar Detection Threshold Level at the receiver input follows the following relationship: DFS Detection Threshold (dBm) = -62 + 10 - e.i.r.p. Spectral Density (dBm/MHz) + G (dBi); however the Radar Detection Threshold Level shall not be less than -64 dBm assuming a 0 dBi receive antenna gain. NOTE 2: Slave devices with a maximum e.i.r.p. of less than 23 dBm do not have to implement radar detection unless these devices are used in fixed outdoor point to point or fixed outdoor point to multipoint applications (see clause 4.2.6.1.3).	

Table D.5: Detection probability

Parameter	Detection Probability (P_d)	
	Channels whose nominal bandwidth falls partly or completely within the 5 600 MHz to 5 650 MHz band	Other channels
CAC, Off-Channel CAC	99,99 %	60 %
In-Service Monitoring	60 %	60 %
NOTE: P_d gives the probability of detection per simulated radar burst and represents a minimum level of detection performance under defined conditions. Therefore P_d does not represent the overall detection probability for any particular radar under real life conditions.		

3.8.3 Test Peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Record PC	Lenovo	M4000q	N/A
2	Notebook	V14G4AMN	Lenovo	N/A
3	Ipad	Apple	Ipadmini5	N/A

3.8.4 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ● : Test ○ : No Test	

3.8.4.1. Channel Availability Check:

a) Connect the EUT, signal generator, spectrum analyzer, companion device(wireless card)according to the test set-up below, before running the test, calibrate the test system with reference test signal defined in table D.3 to make sure that the value to the antenna ports is calculated as the formula: DFS Detection Threshold (DT) (dBm) = -62 + 10 - e.i.r.p. Spectral Density

(dBm/MHz) + G (dBi), record the value.

Table D.3: Parameters of the reference DFS test signal		
Pulse width W (μs)	Pulse repetition frequency PRF (PPS)	Pulses per burst (PPB)
1	700	18

- b) After completing the calibration, fix the channel and bandwidth via UI or commands, e.g. 100/20MHz, the EUT is switched off and the signal generator is switched off at this point in time.
- c) Restart the EUT and trigger the spectrum analyzer at the same time, according to the information showed by console, determine the time T_1 when the EUT has completed its power-up sequence and is ready to start the radar detection. determine the time T_2 when the EUT complete radar detection and start to transmit by observing the spectrum analyzer, Make sure that there are no other transmissions before the EUT is completely up, the power of the EUT is switched off.
- d) Restart the EUT, inject the reference DFS test signal defined in table D.3 with a level up to 10 dB above DT calibrated step a on the operating channel in the instant within 2 s after time T_1 .
- e) It shall be recorded if the radar test signal was detected or not via observing the spectrum analyzer.
- f) Repeat the step d to step e, but the instant change to T_2-2s (max), record the test result.

3.8.4.2. Radar Detection Threshold Level (during the Channel Availability Check):

- a) Connect the EUT, signal generator, spectrum analyzer, companion device (wireless card) according to the test set-up as following, before running the test, calibrate the test system with radar test signals defined in table D.4 to make sure that the value to the antenna ports is calculated as the formula: DFS Detection Threshold (DT) (dBm) = -62 + 10 * e.i.r.p. Spectral Density (dBm/MHz) + G (dBi), record the value.

Table D.4: Parameters of radar test signals						
Radar test signal # (note 1 to 3)	Pulse width W [μs]		Pulse repetition frequency PRF (PPS)		Number of different PRFs	Pulses per burst for each PRF (PPB) (see note 5)
	Min	Max	Min	Max		
1	0.5	5	200	1000	1	10
2	0.5	15	200	1600	1	15
3	0.5	15	2300	4000	1	25
4	20	30	2000	4000	1	20
5	0.5	2	300	400	2/3	10
6	0.5	2	400	1200	2/3	15

Note 1: Radar test signals 1 to 4 are constant PRF based signals. See figure D.1. These radar test signals are intended to simulate also radars using a packet based Staggered PRF. See figure D.2.

Note 2: Radar test signal 4 is a modulated radar test signal. The modulation to be used is a chirp modulation with a ± 2.5 MHz frequency deviation.

Note 3: Radar test signals 5 and 6 are single pulse based Staggered PRF radar test signals using 2 or 3 different PRF values. For radar test signal 5, the difference between the PRF values chosen

shall be between 20 and 50 pps. For radar test signal 6, the difference between the PRF values chosen shall be between 80 and 400 pps. See figure D.3

Note 4: Apart for the Off-Channel CAC testing, the radar test signals above shall only contain a single burst of pulses. See figure D.1, D.2 and D.3. For the Off-Channel CAC testing, repetitive bursts shall be used for the total duration of the test. See figure D.4.

Note 5: The total number of pulses in a burst is equal to the number of pulses for a single PRF multiplied by the number of different PRFs used.

- b) After completing the calibration, fix the channel and bandwidth via UI or commands , e.g. 100/20MHz, the EUT is switched off and the signal generator is switched off at this point in time.
- c) Restart the EUT and trigger the spectrum analyzer at the same time, according to the information showed by console, determine the time T_1 when the EUT has completed its power-up sequence and is ready to start the radar detection. determine the time T_2 when the EUT complete radar detection and start to transmit by observing the spectrum analyzer, Make sure that there are no other transmissions before the EUT is completely up, the power of the EUT is switched off.
- d) Restart the EUT, inject any of the radar test signals defined in table D.4 with a level DT calibrated step a on the operating channel in the instant 10 s after time T_1 .
- e) It shall be recorded if the radar test signal was detected or not via observing the spectrum analyzer.
- f) Step d to step f shall be performed 20 times and each time a unique radar test signal shall be generated from options provided in table D.4. When selecting these 20 unique radar test signals, the radar test signals #1 to #6 from table D.4 shall be included as well as variations of pulse width, pulse repetition frequency and number of different PRFs (if applicable) within the ranges given. The radar test signals used shall be recorded in the report.

3.8.4.3. In-Service Monitoring:

- a) Refer to 3.8.3.2 step a.
- b) Restart the EUT. After completing the calibration, make sure the traffic load between the EUT and companion device above 30%.
- c) Conduct the commands to disable the Channel Shutdown feature for the duration of the test.
- d) At a certain time T_0 , a single burst radar test signal is generated on operating channel using radar test signal #1 defined in table D.4 and at a level calibrated step a. It shall be recorded if the radar test signal was detected by observing relevant tool (e.g. serial port).
- e) Step d shall be performed 20 times, each time a random value shall be chosen for pulse width and pulse repetition frequency from the corresponding ranges provided in table D.4. Record the test result.

3.8.4.4. Channel Shutdown and Non-Occupancy period:

- a) Refer to 3.8.3.1 step a.
- b) After completing the calibration, make sure the traffic load between the EUT and companion device above 30%.
- c) At a certain time T_0 , a single burst test signal is generated on operating channel using the

reference DFS test signal defined in table D.3 and at a level of up to 10 dB above the level calibrated step a on the selected channel.

d) It shall be recorded if the selected channel moves to another channel or not. Calculate the channel move time and closing transmission time by the testing software, meanwhile check the selected channel is Non-Occupancy for 30Mins via observing the spectrum analyzer. Record the test result.

3.8.5 Test Configuration

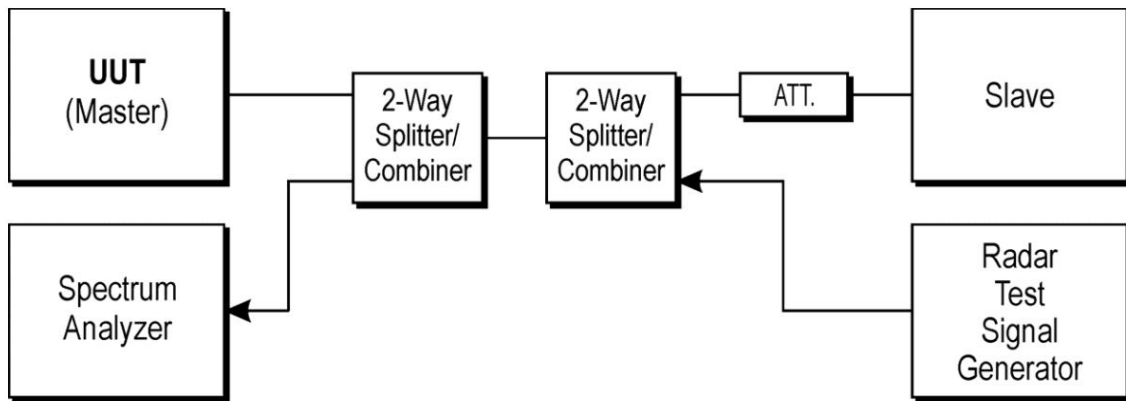


Figure 1: Master Mode Set-up

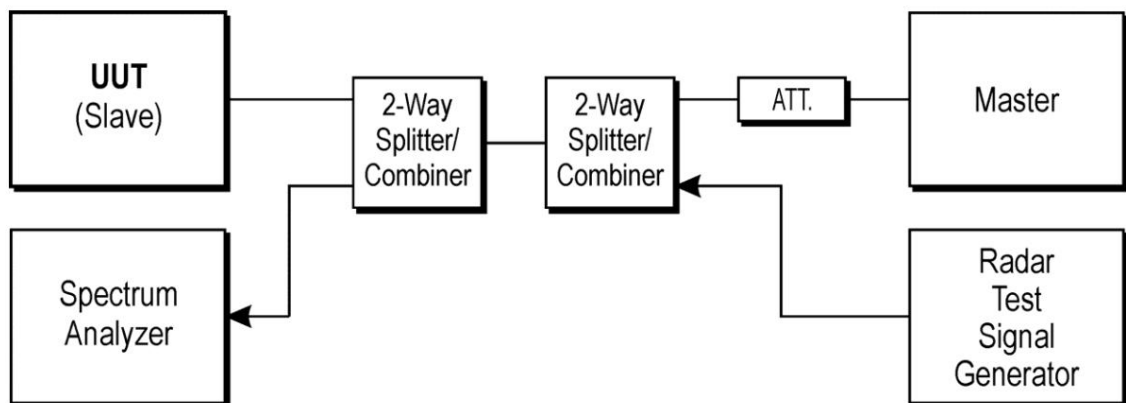


Figure 2: Slave Mode Set-up

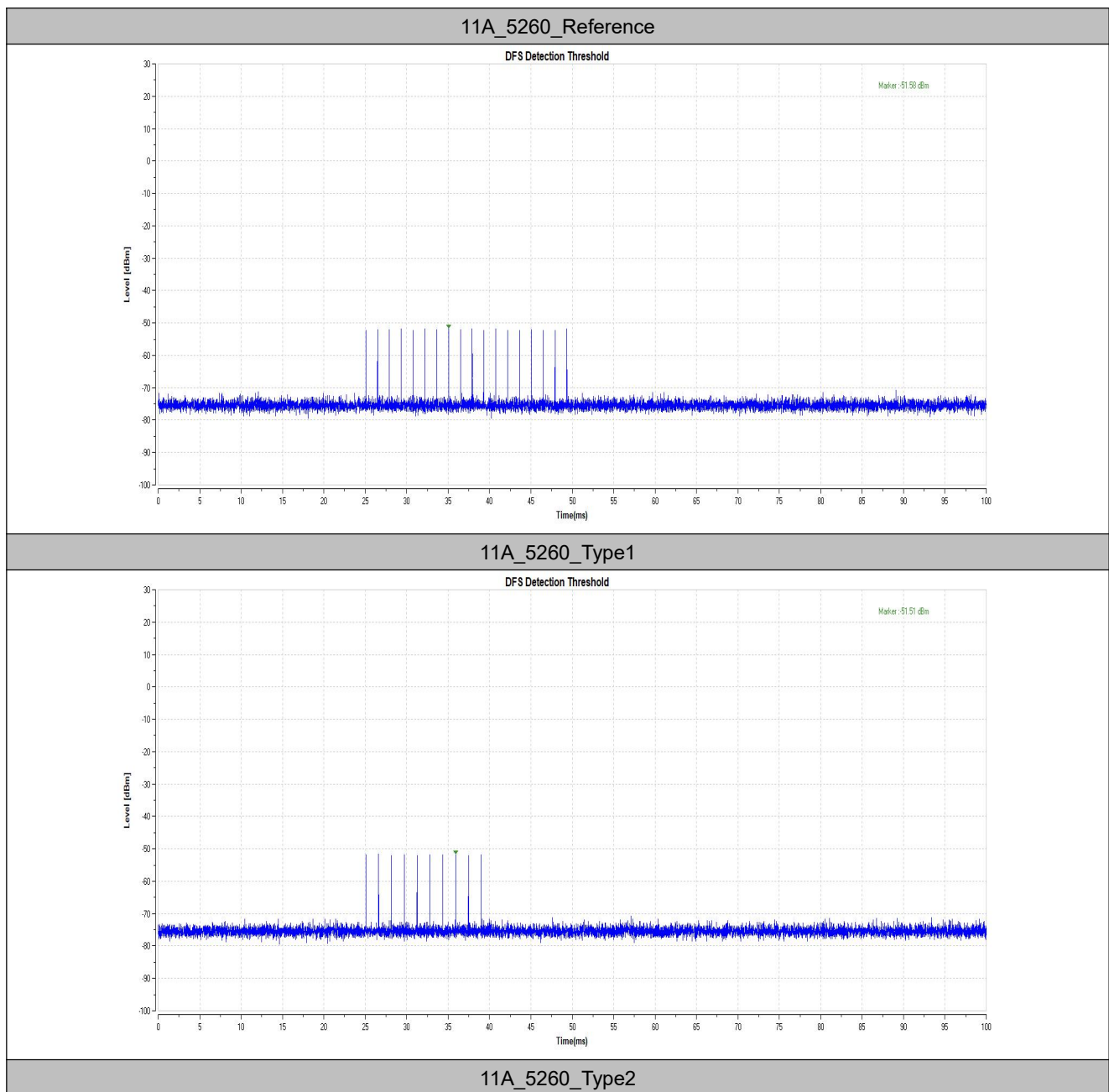
3.8.6 Test Result of DFS

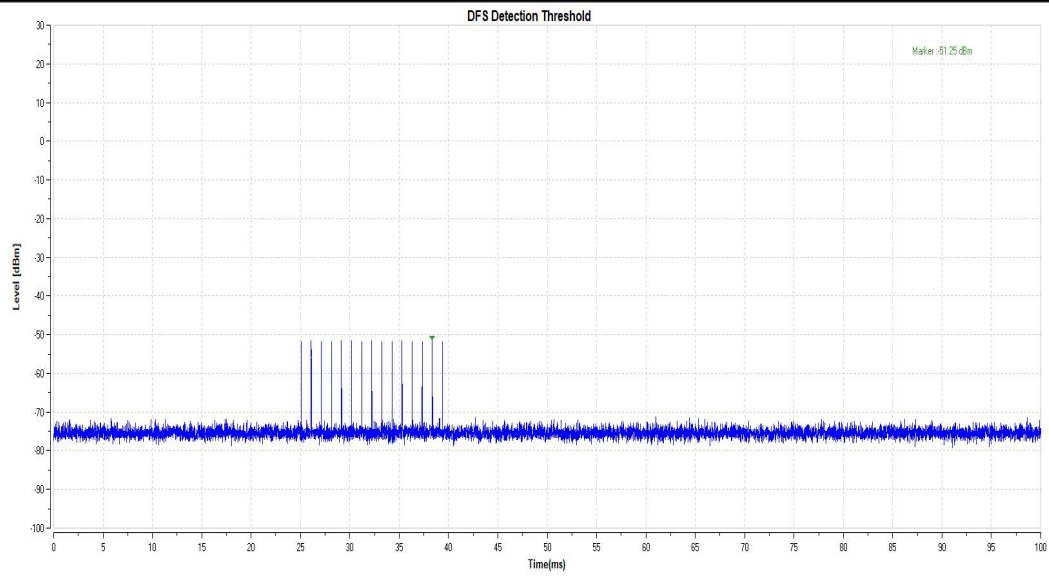
3.8.6.1 DFS Detection Thresholds

3.8.6.1.1 Test Result

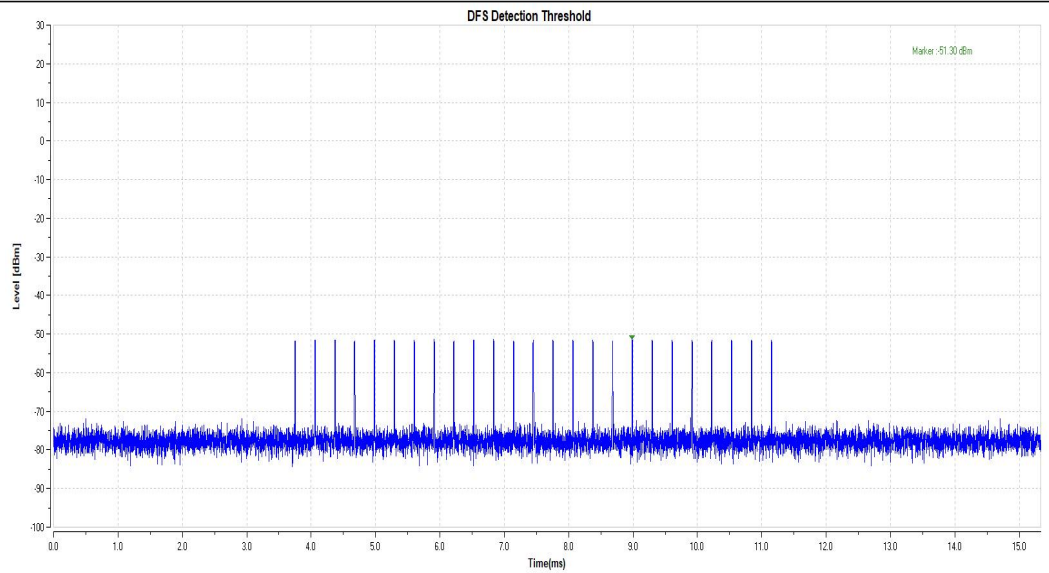
TestMode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11A	5260	Reference	-51.58	-51.24	PASS
		Type1	-51.51	-51.24	PASS
		Type2	-51.25	-51.24	PASS
		Type3	-51.30	-51.24	PASS
		Type4	-51.43	-51.24	PASS
		Type5	-51.39	-51.24	PASS
		Type6	-51.66	-51.24	PASS
	5500	Reference	-58.92	-58.60	PASS
		Type1	-58.66	-58.60	PASS
		Type2	-58.75	-58.60	PASS
		Type3	-58.69	-58.60	PASS
		Type4	-58.98	-58.60	PASS
		Type5	-58.99	-58.60	PASS
		Type6	-58.95	-58.60	PASS
11AX160MIMO	5250	Reference	-43.15	-43.12	PASS
		Type1	-43.22	-43.12	PASS
		Type2	-43.17	-43.12	PASS
		Type3	-43.31	-43.12	PASS
		Type4	-43.44	-43.12	PASS
		Type5	-43.45	-43.12	PASS
		Type6	-43.48	-43.12	PASS
	5570	Reference	-51.65	-51.48	PASS
		Type1	-51.58	-51.48	PASS
		Type2	-51.57	-51.48	PASS
		Type3	-51.61	-51.48	PASS
		Type4	-51.68	-51.48	PASS
		Type5	-51.57	-51.48	PASS
		Type6	-51.60	-51.48	PASS

3.8.6.1.2 Test Graphs

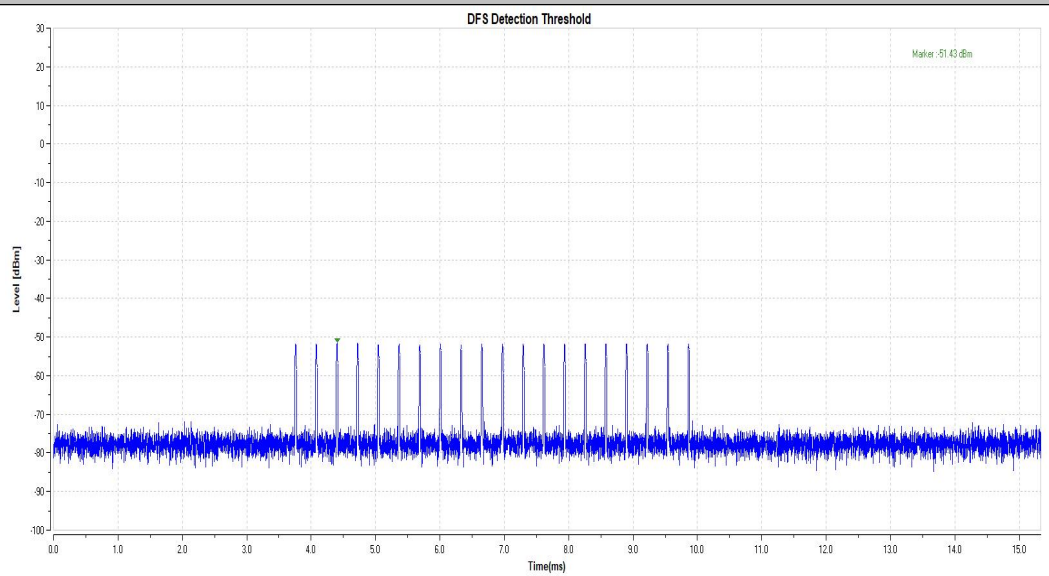




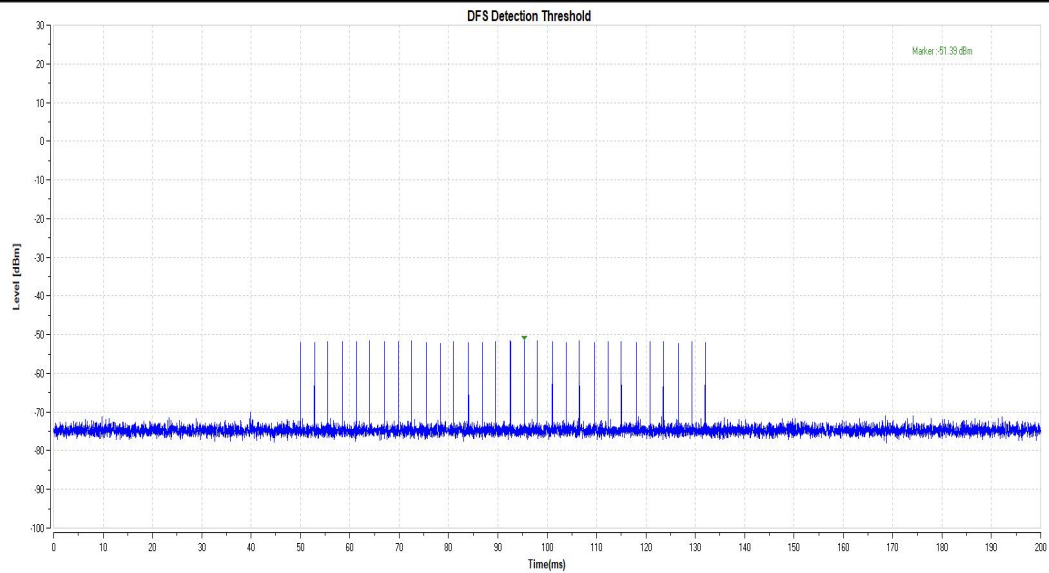
11A_5260_Type3



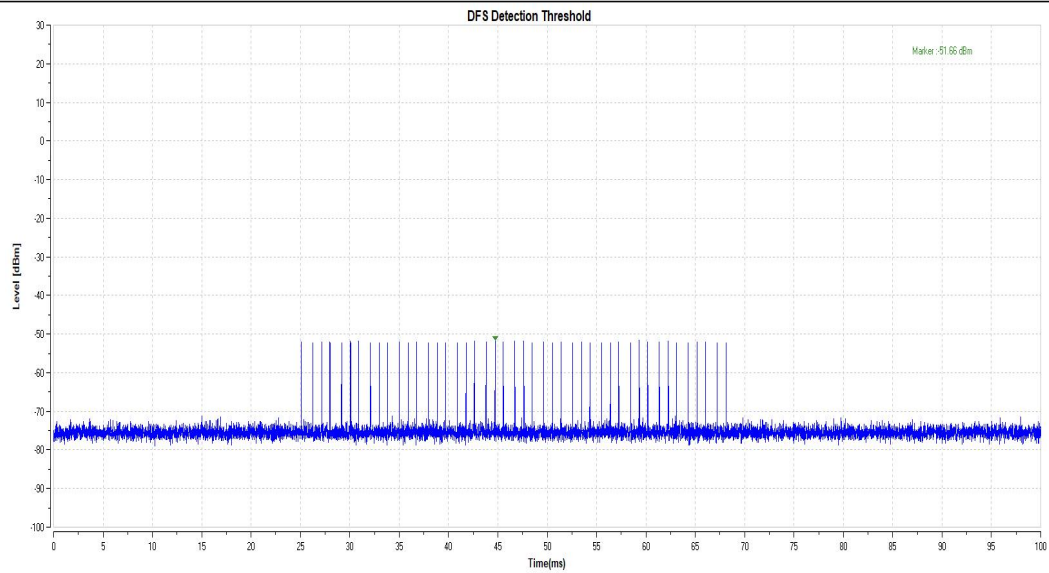
11A_5260_Type4



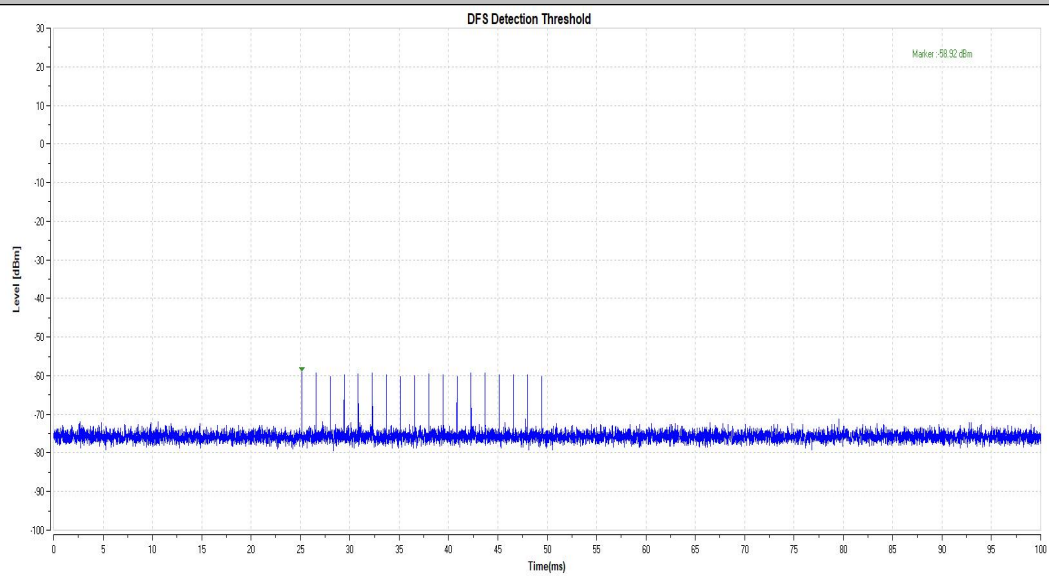
11A_5260_Type5



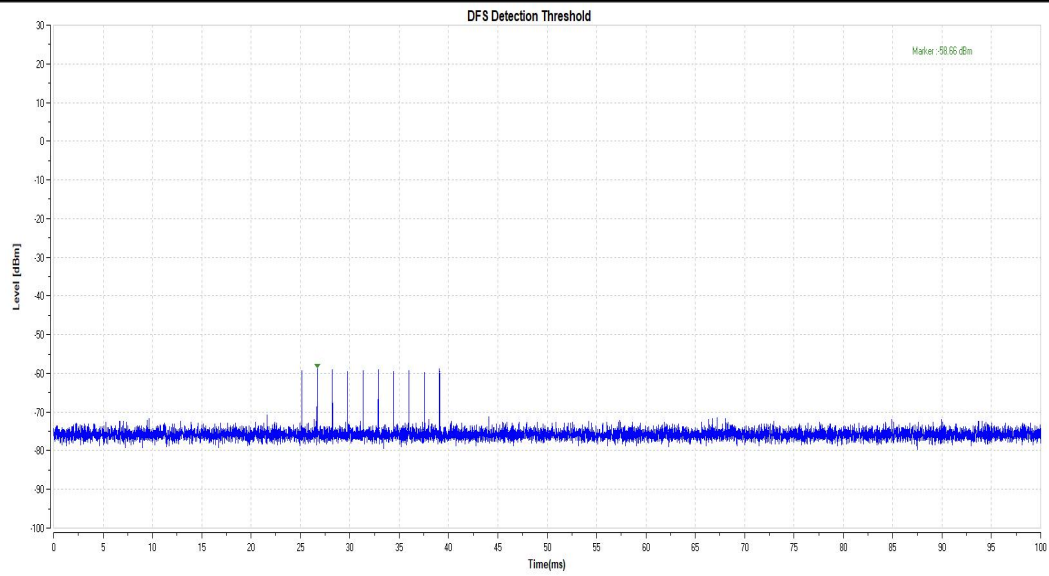
11A_5260_Type6



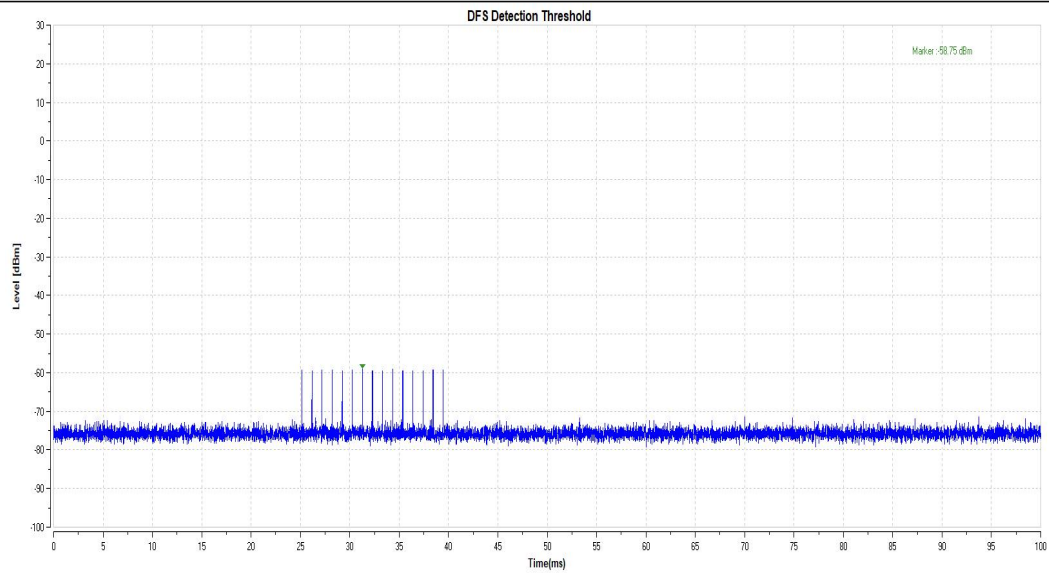
11A_5500_Reference



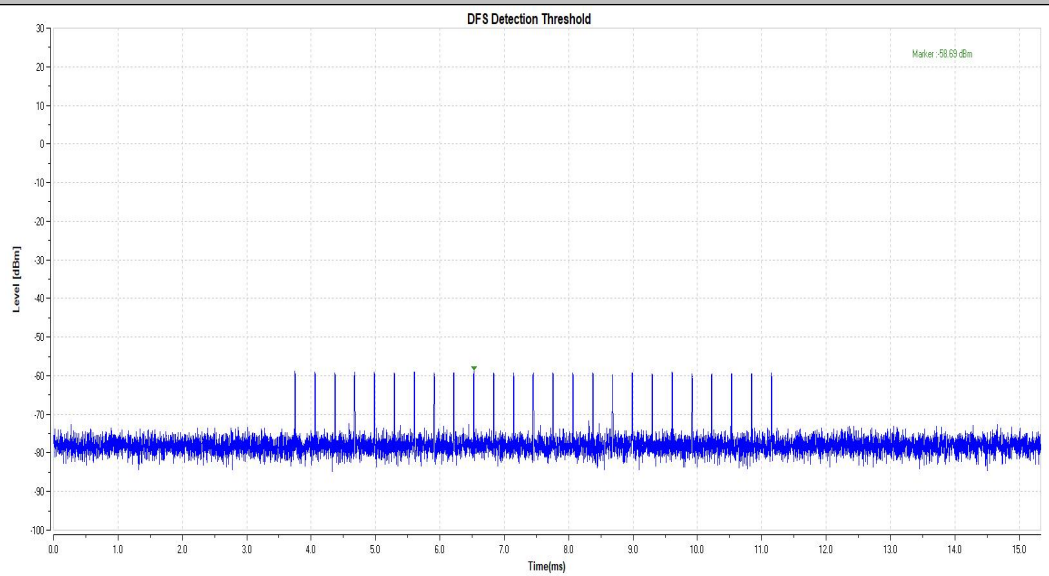
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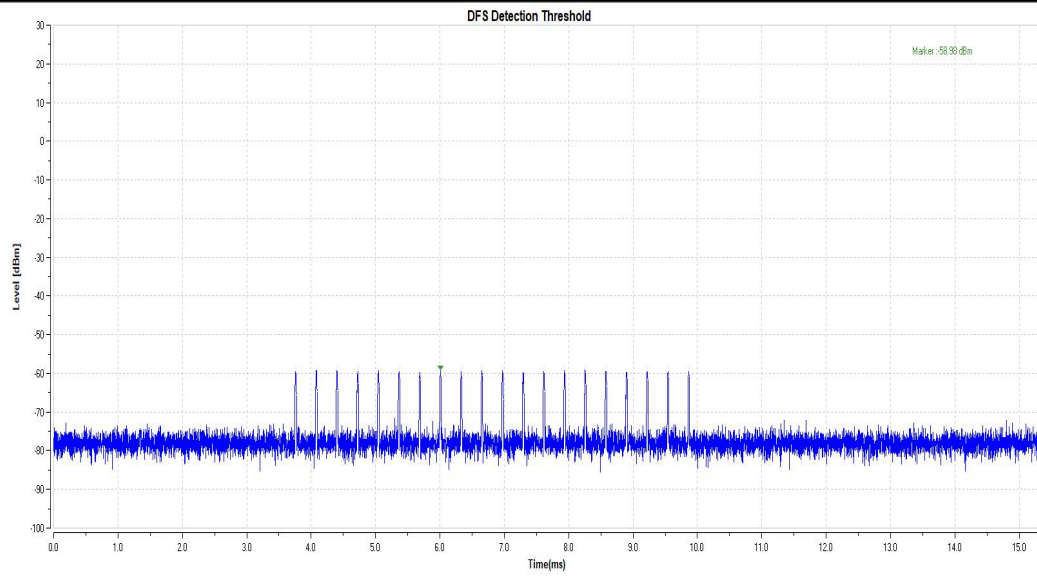
11A_5500_Type2



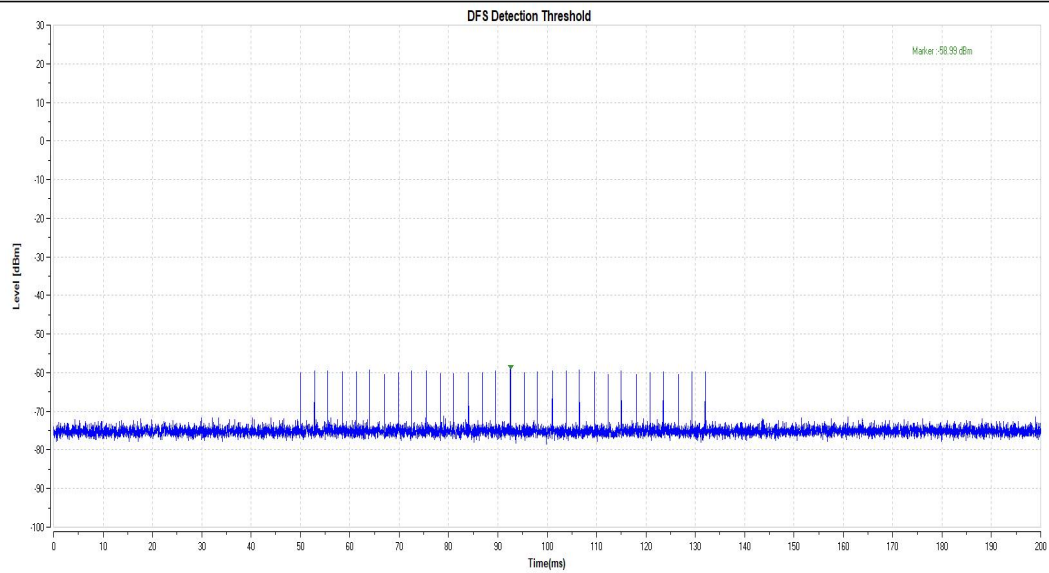
11A_5500_Type3



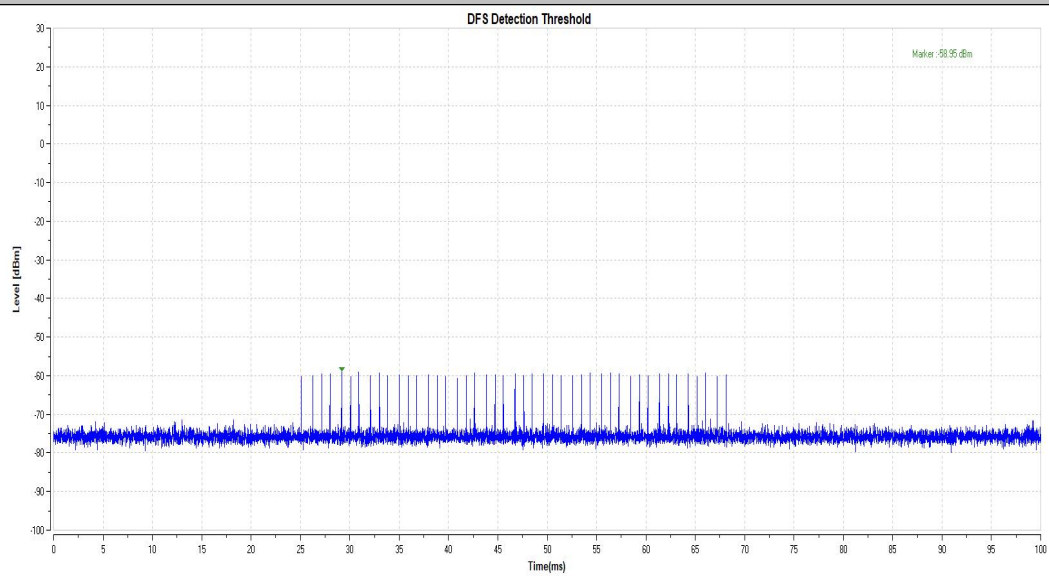
11A_5500_Type4



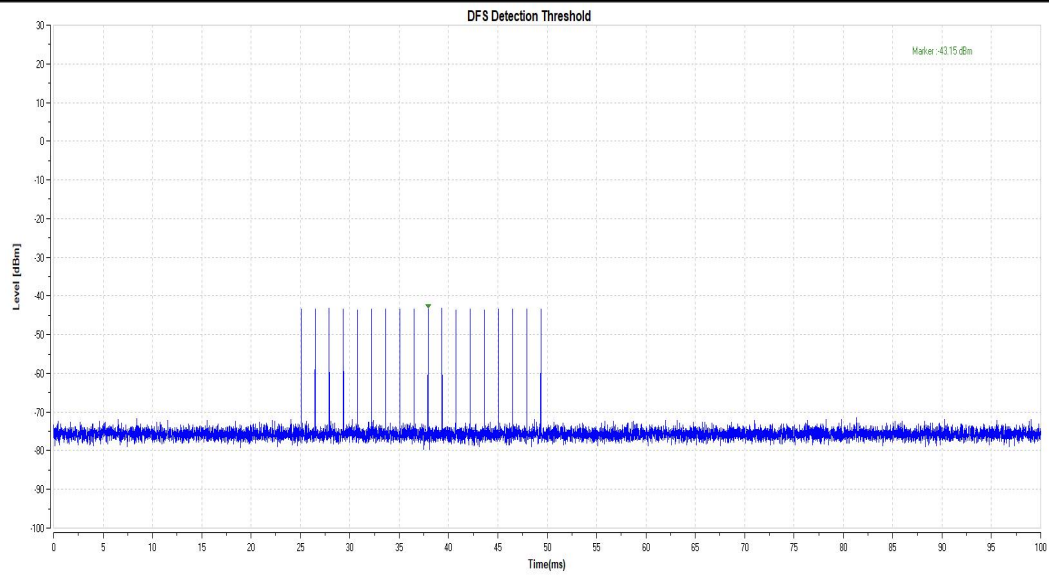
11A_5500_Type5



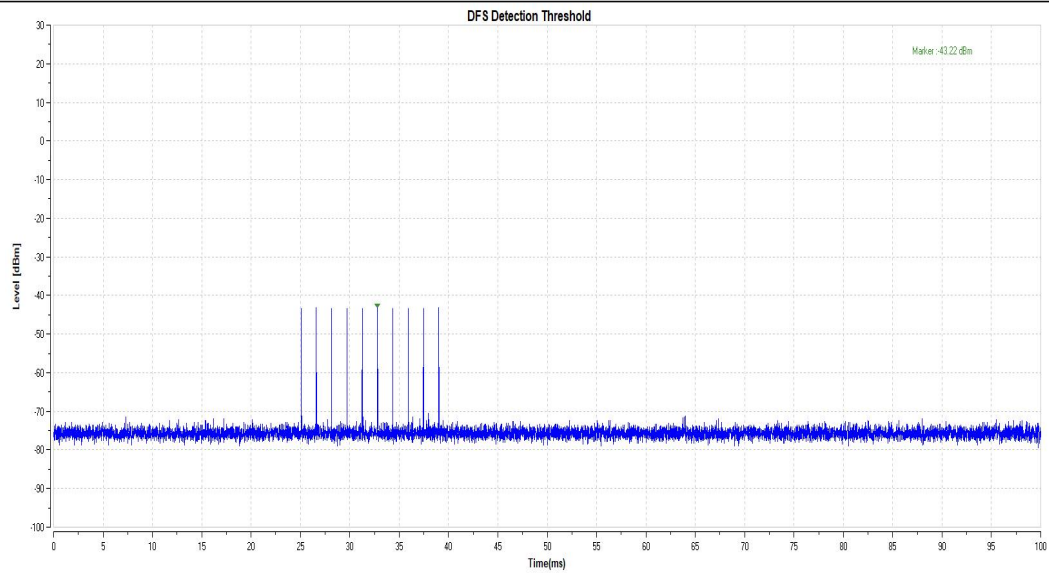
11A_5500_Type6



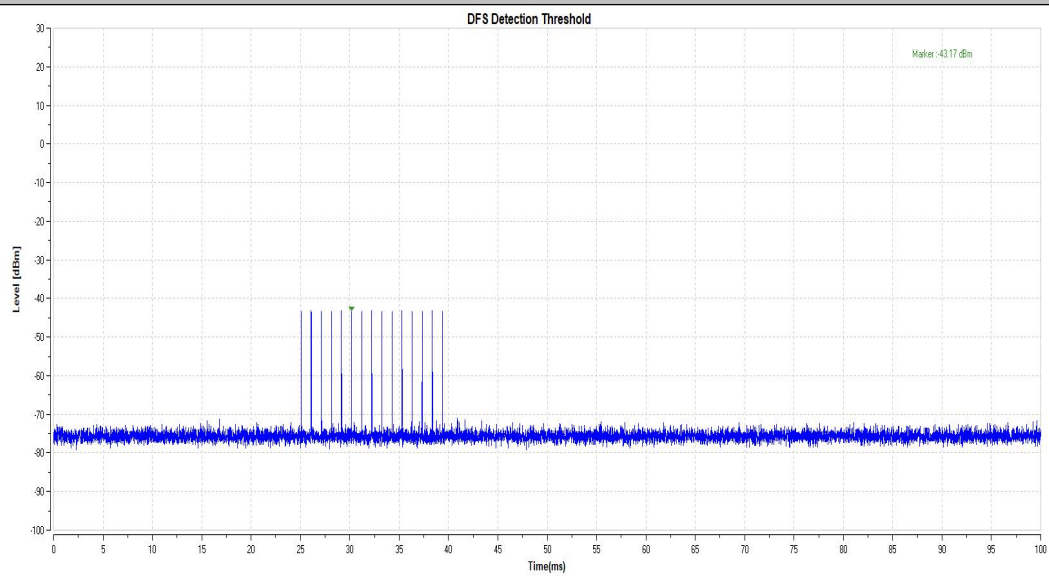
11AX160MIMO_5250_Reference



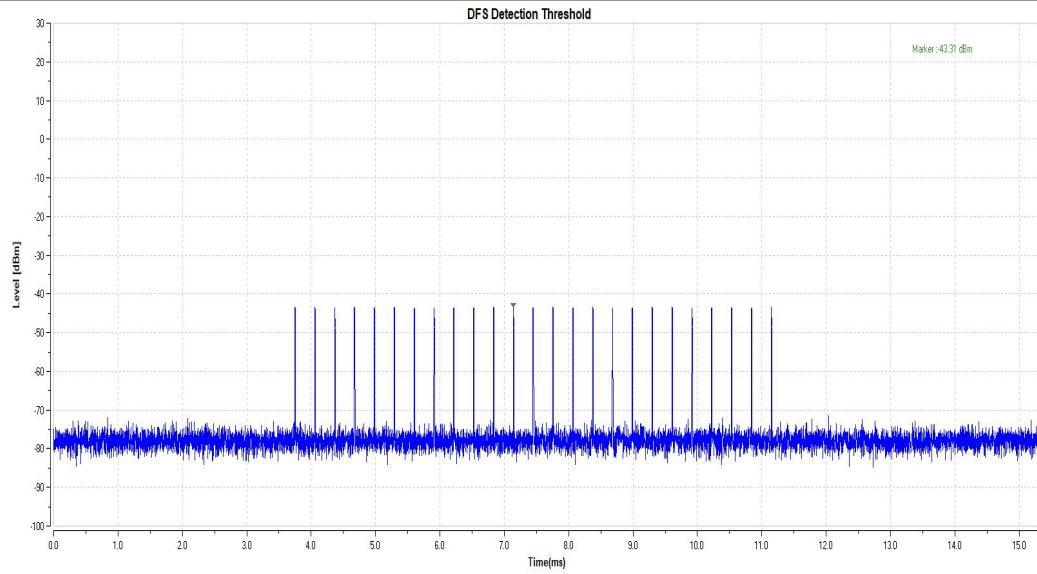
11AX160MIMO_5250_Type1



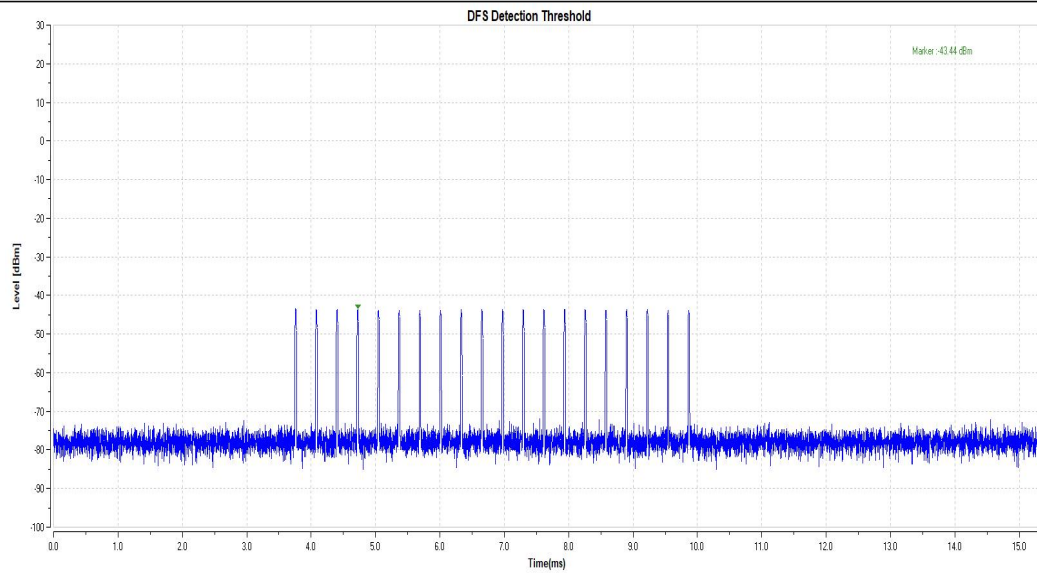
11AX160MIMO_5250_Type2



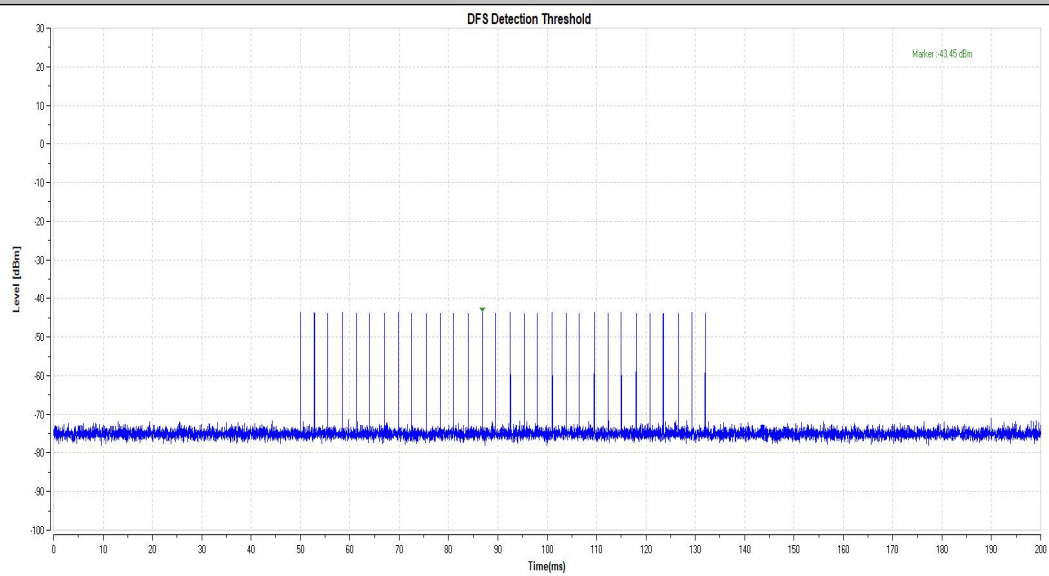
11AX160MIMO_5250_Type3



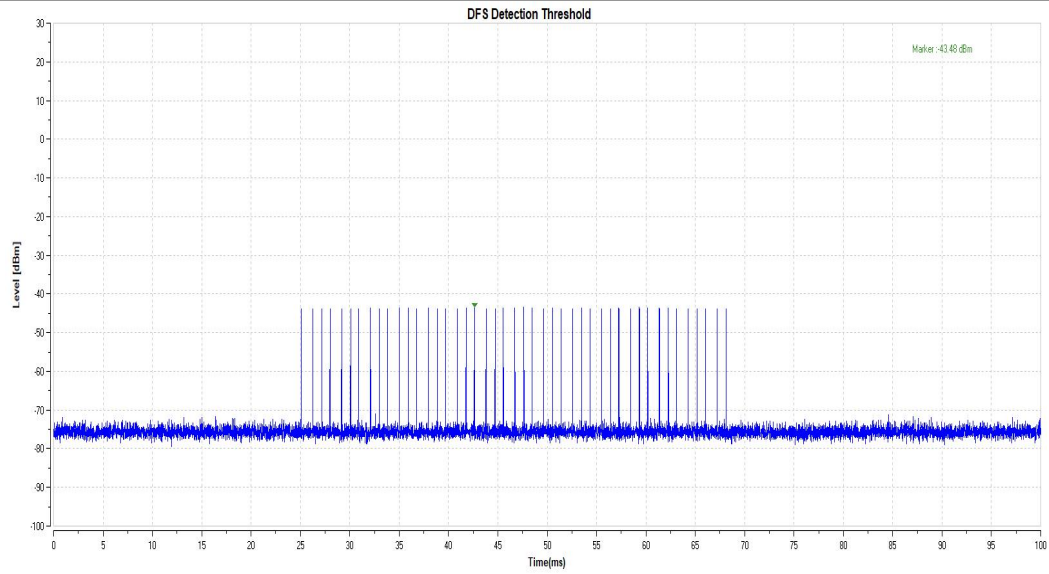
11AX160MIMO_5250_Type4



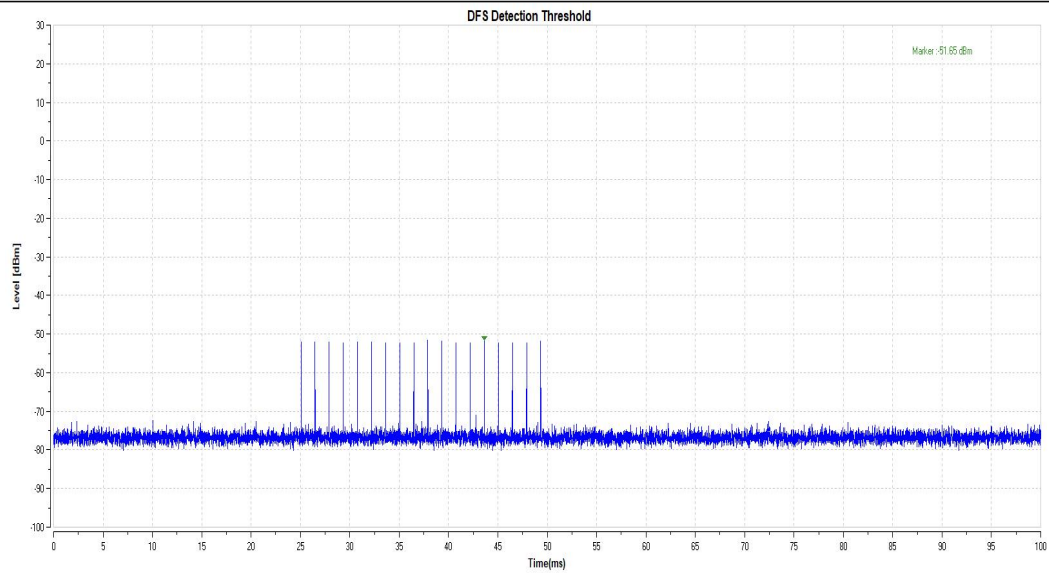
11AX160MIMO_5250_Type5



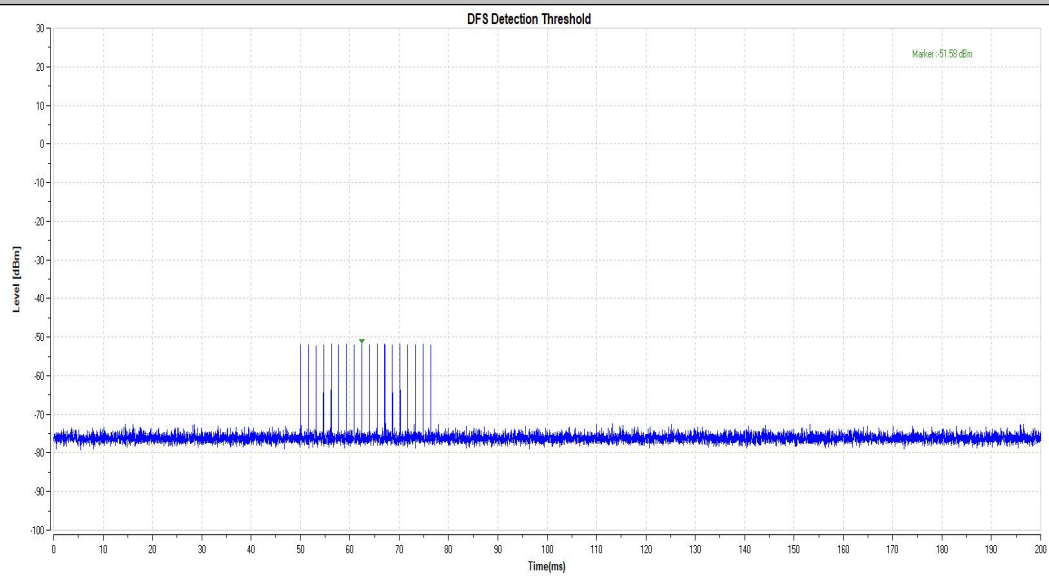
11AX160MIMO_5250_Type6



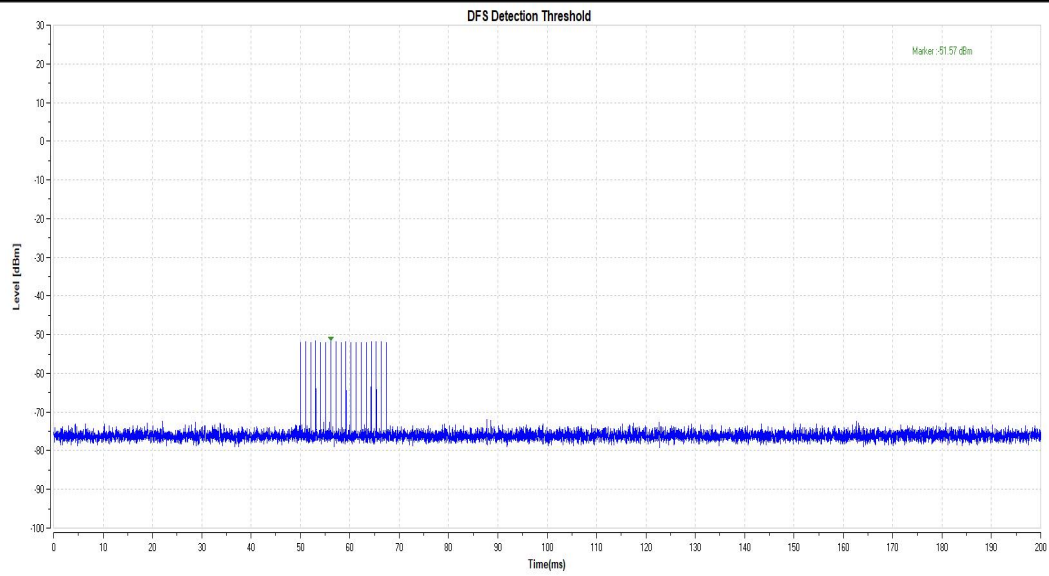
11AX160MIMO_5570_Reference



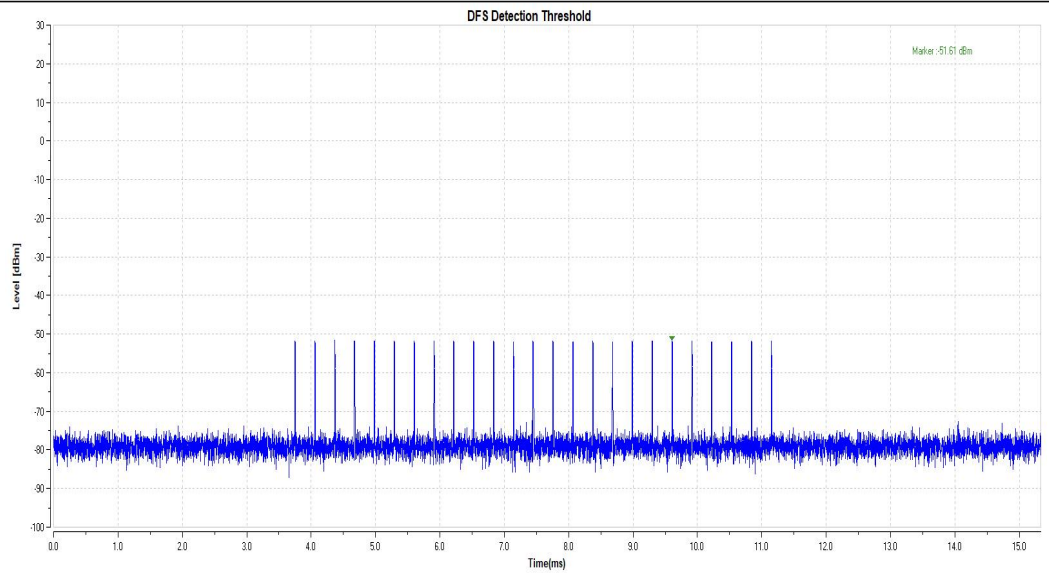
11AX160MIMO_5570_Type1



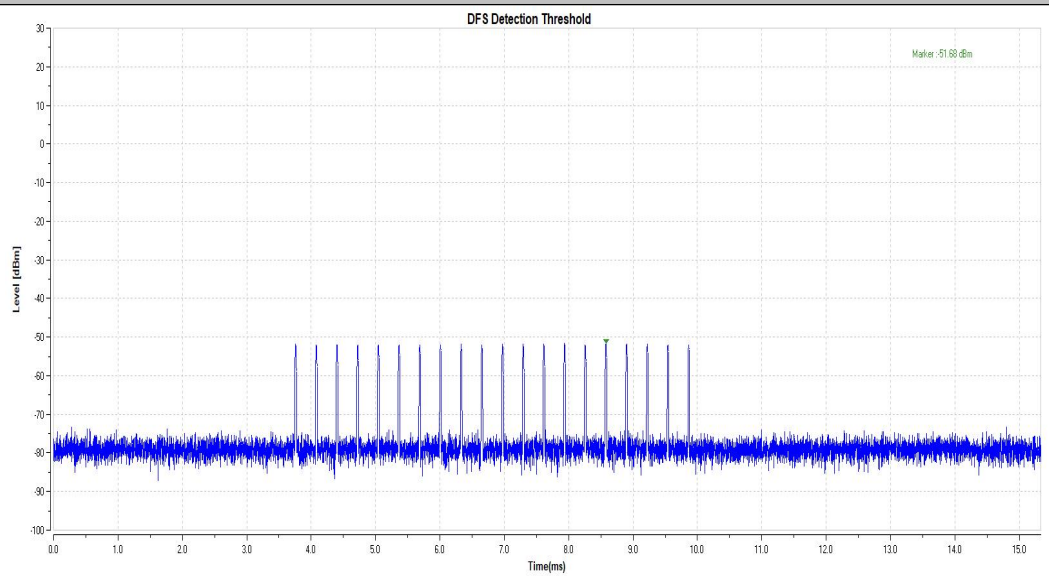
11AX160MIMO_5570_Type2



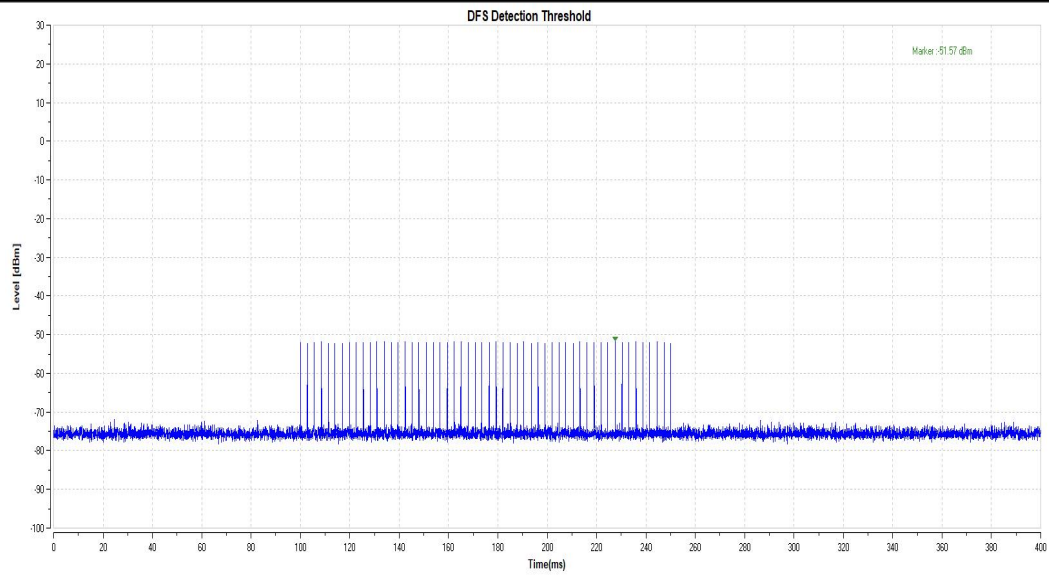
11AX160MIMO_5570_Type3



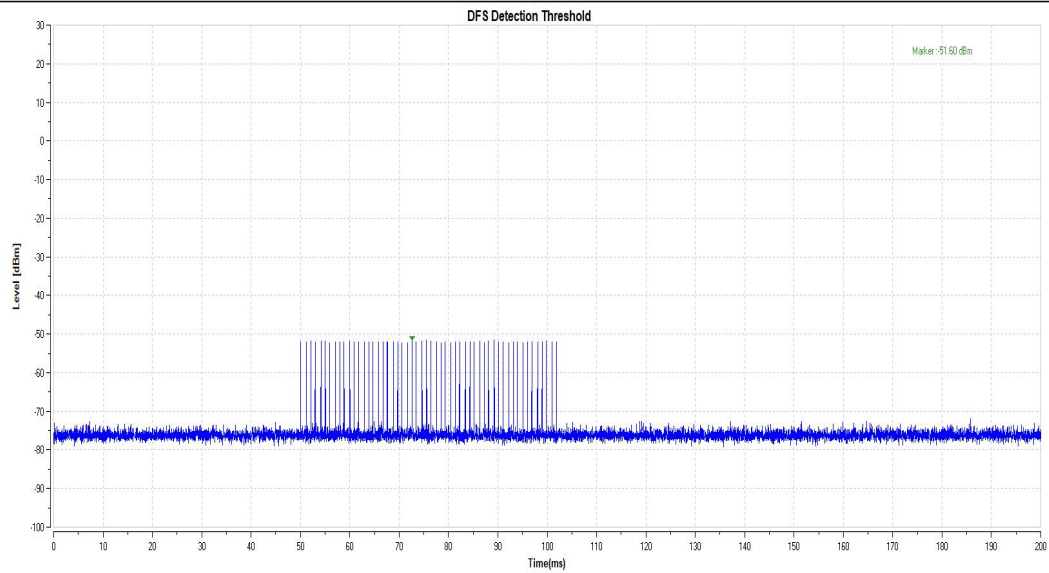
11AX160MIMO_5570_Type4



11AX160MIMO_5570_Type5



11AX160MIMO_5570_Type6

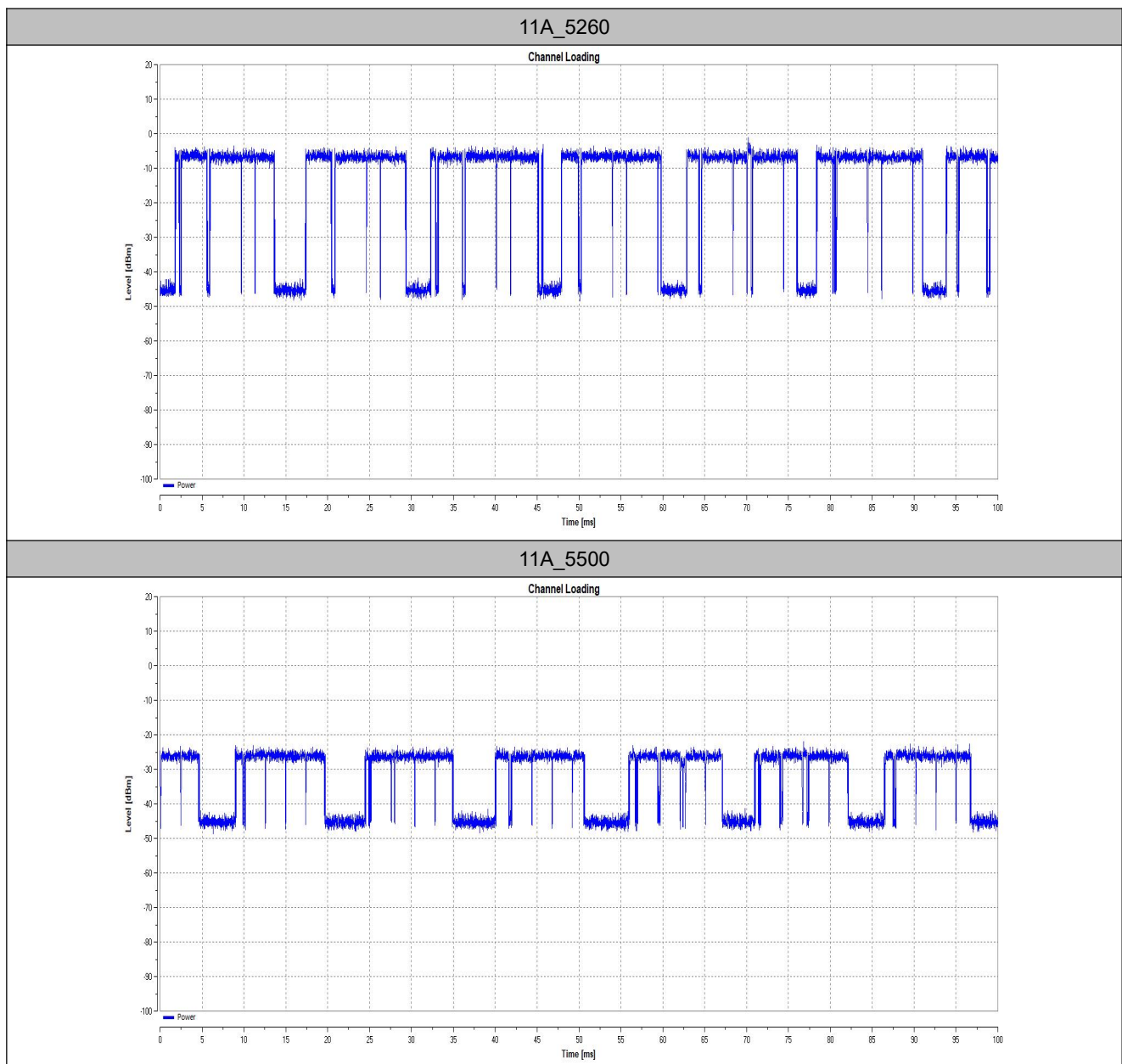


3.8.6.2 Channel Loading

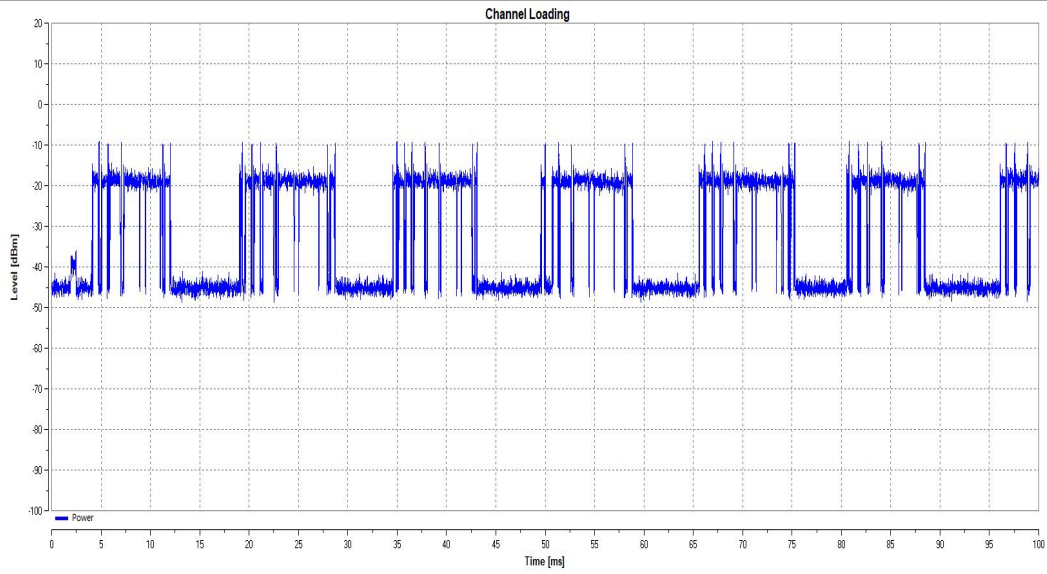
3.8.6.2.1 Test Result

TestMode	Channel	Result	Limit [%]	Verdict
11A	5260	76.48	30	PASS
	5500	65.07	30	PASS
11AX160MIMO	5250	47.24	30	PASS
	5570	30.12	30	PASS

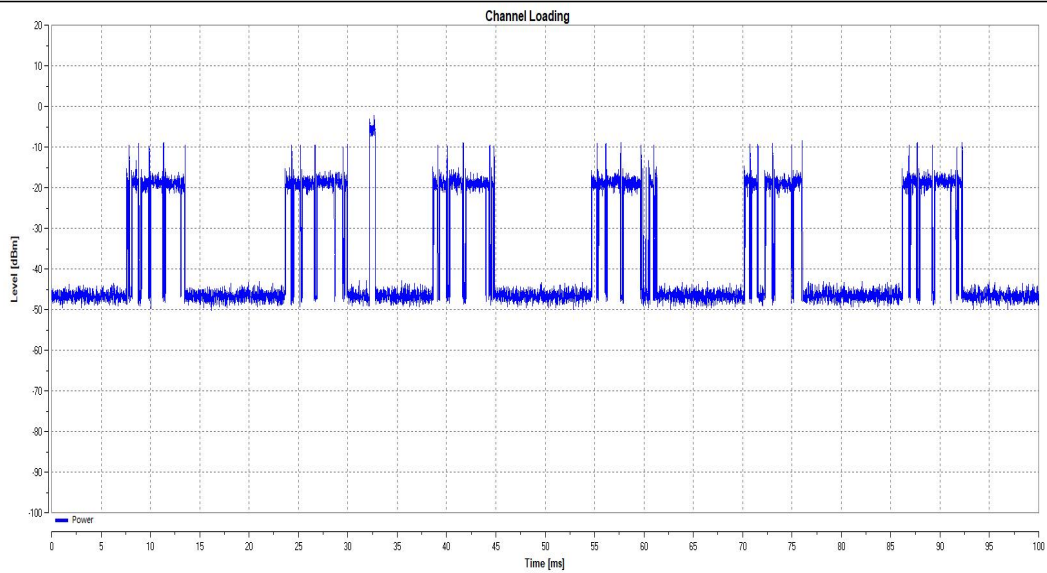
3.8.6.2.2 Test Graphs



11AX160MIMO_5250



11AX160MIMO_5570

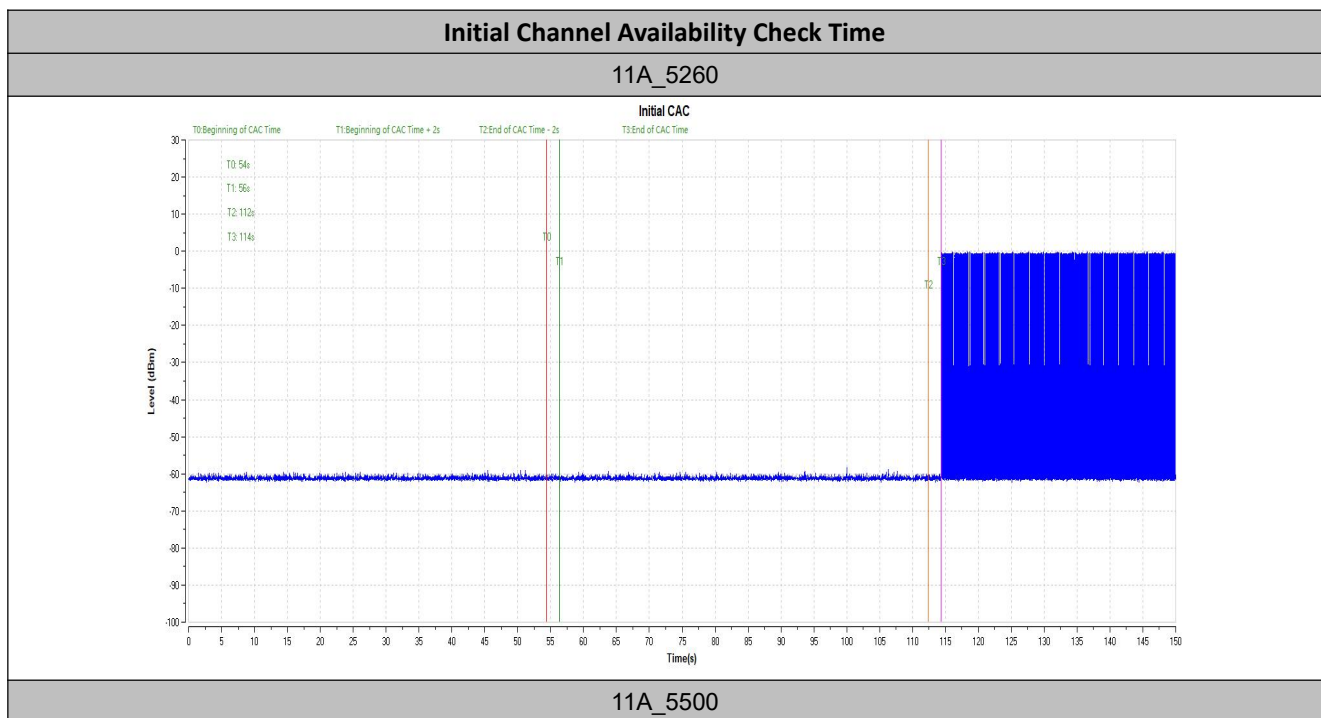


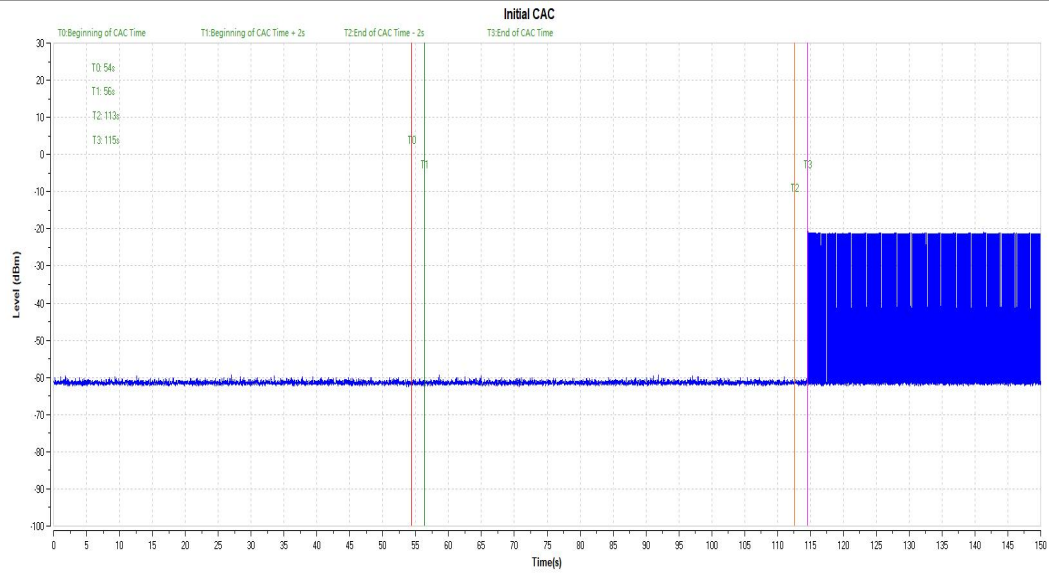
3.8.6.3 Channel Availability Check Time

3.8.6.3.1 Test Result

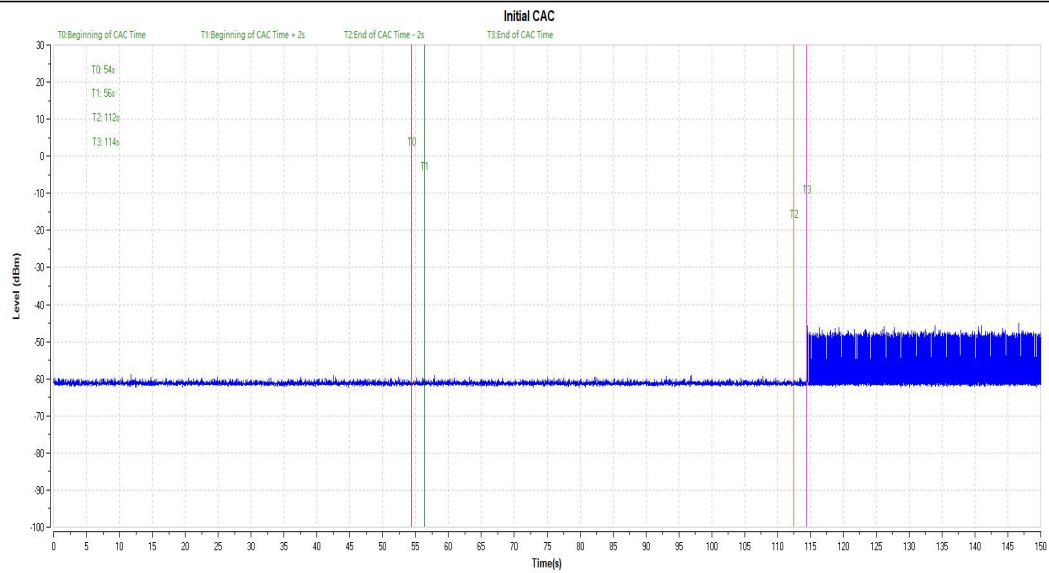
TestMode	Channel	Result	Verdict
11A	5260	See test Graph	PASS
	5500	See test Graph	PASS
11AX160MIMO	5250	See test Graph	PASS
	5570	See test Graph	PASS

3.8.6.3.2 Test Graphs

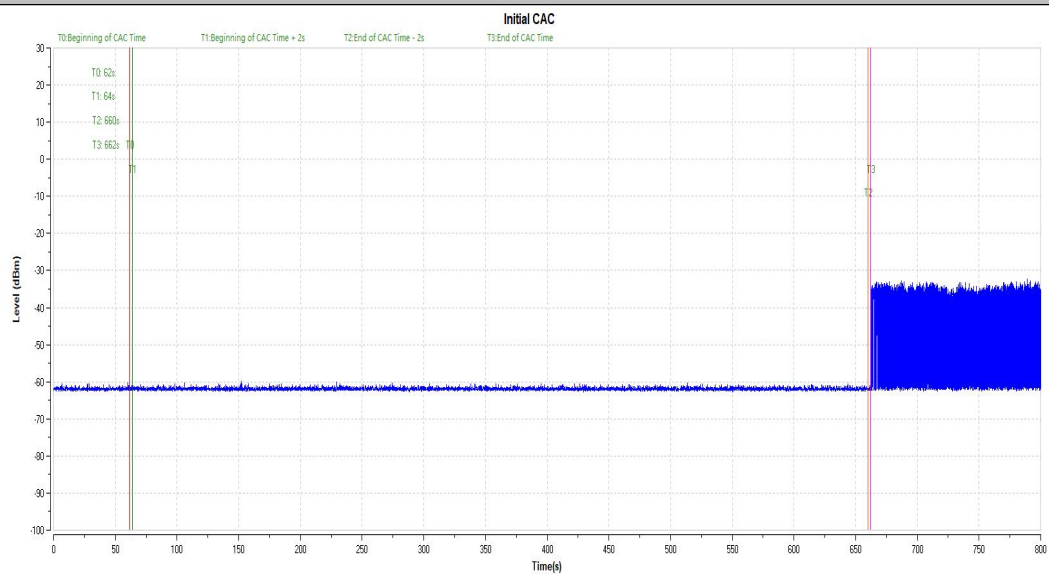




11AX160MIMO_5250

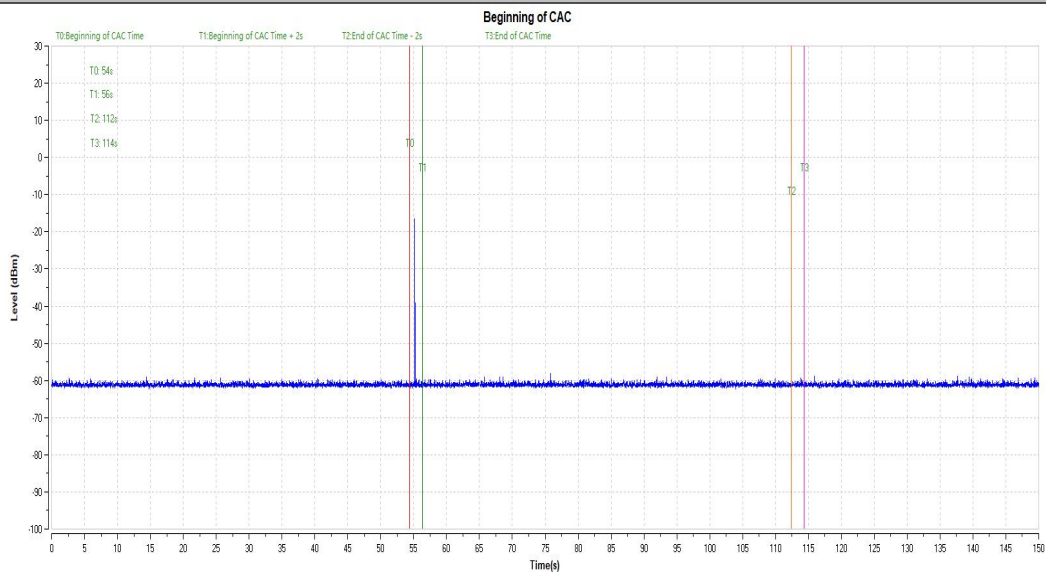


11AX160MIMO_5570

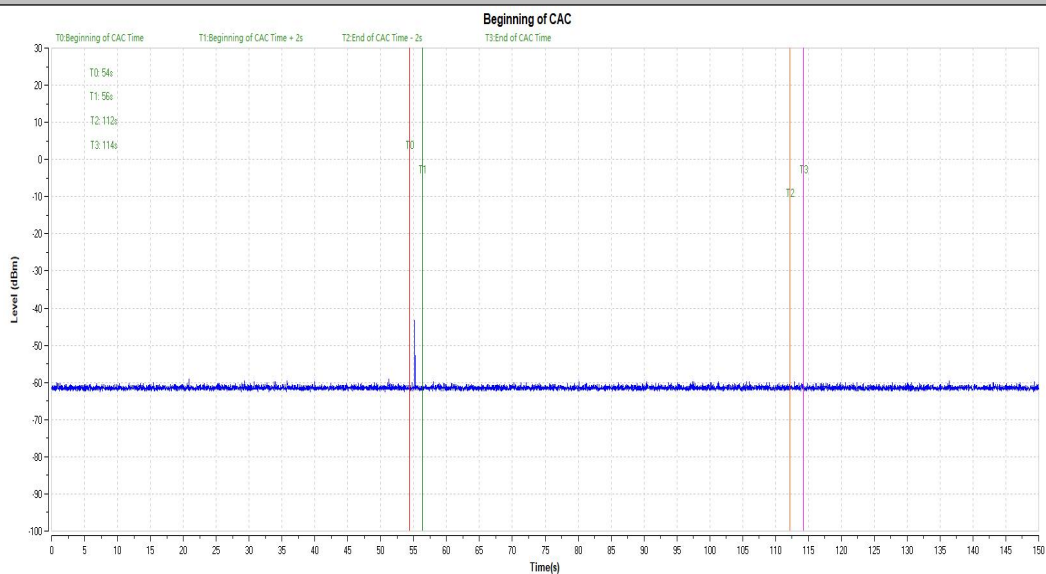


Beginning of Channel Availability Check Time

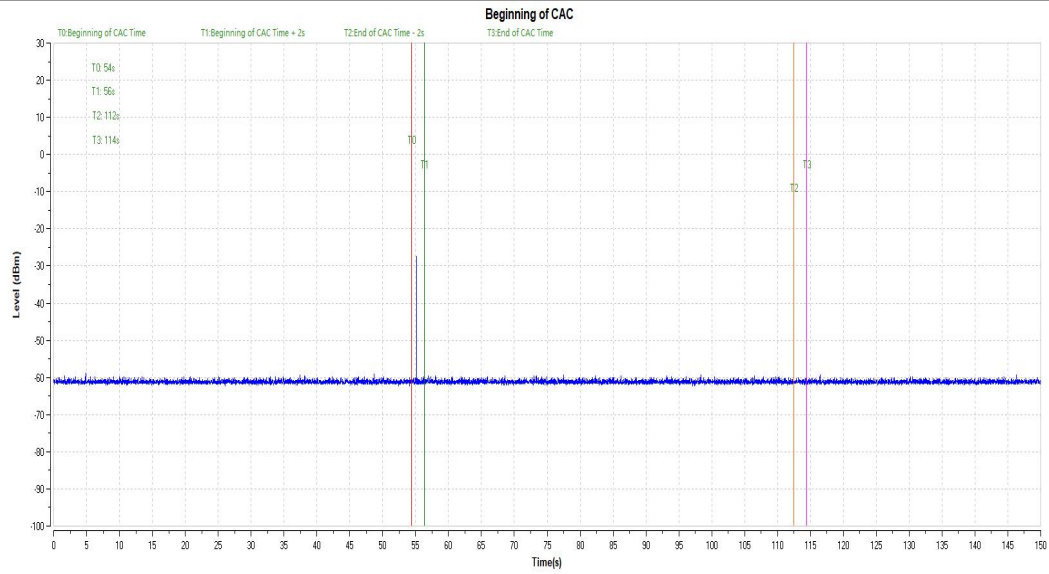
11A_5260



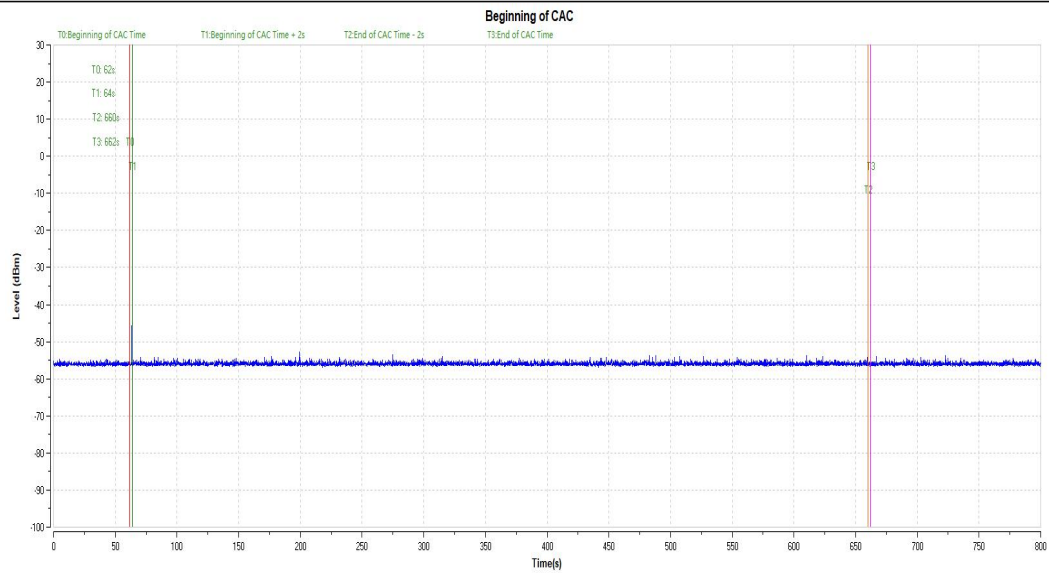
11A_5500



11AX160MIMO_5250

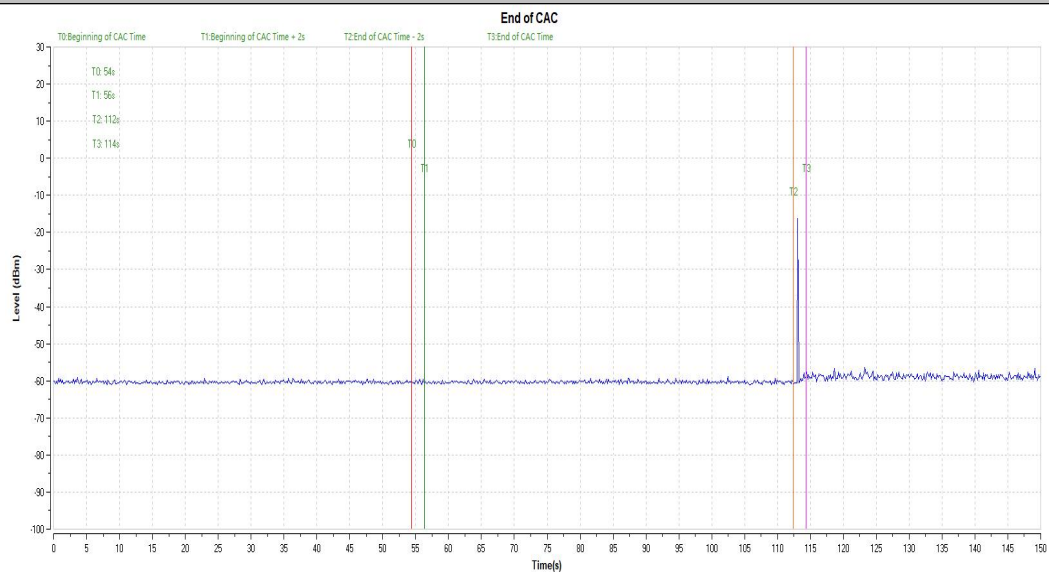


11AX160MIMO_5570

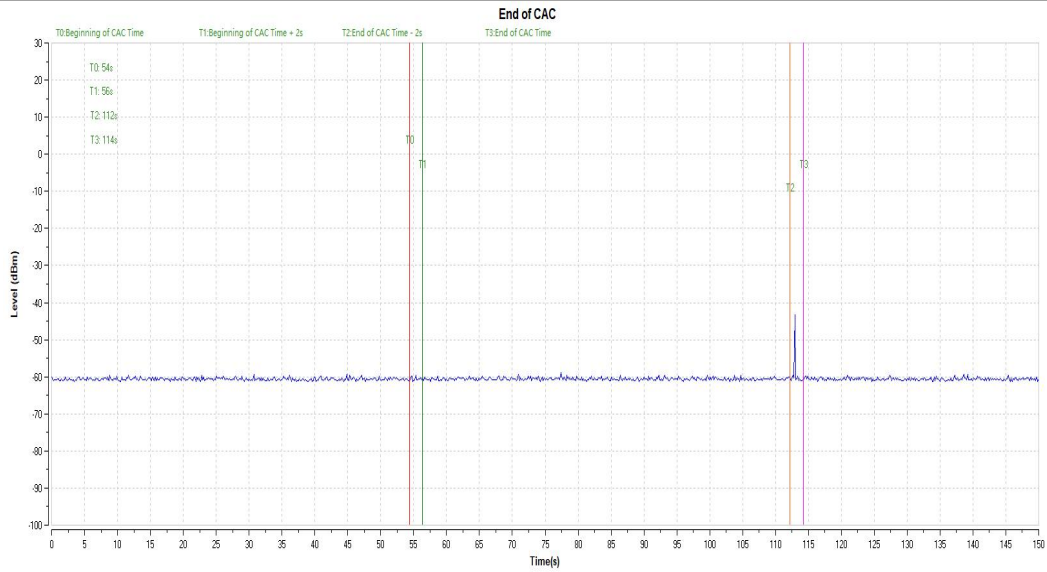


End of Channel Availability Check Time

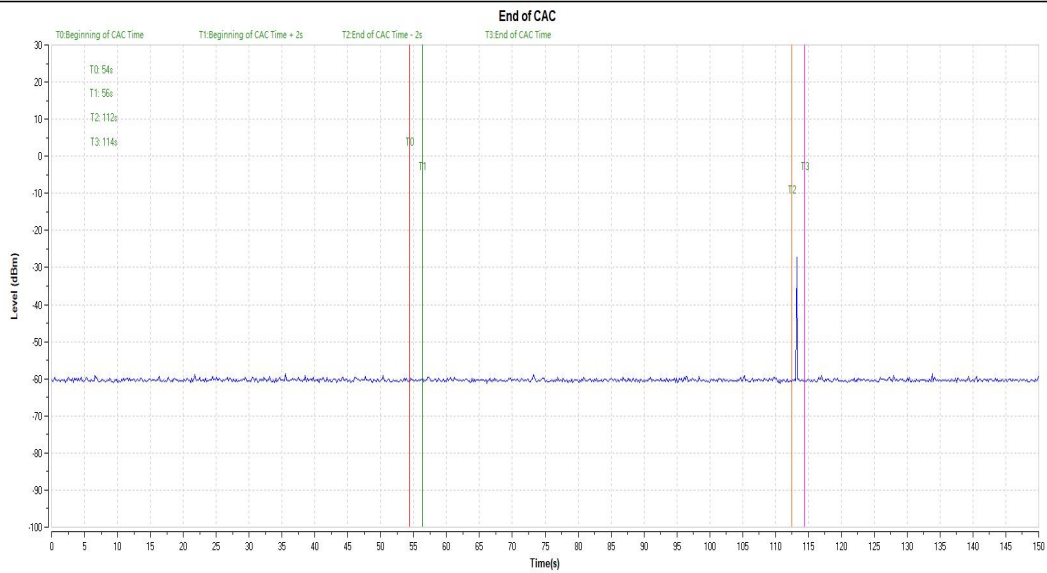
11A_5260



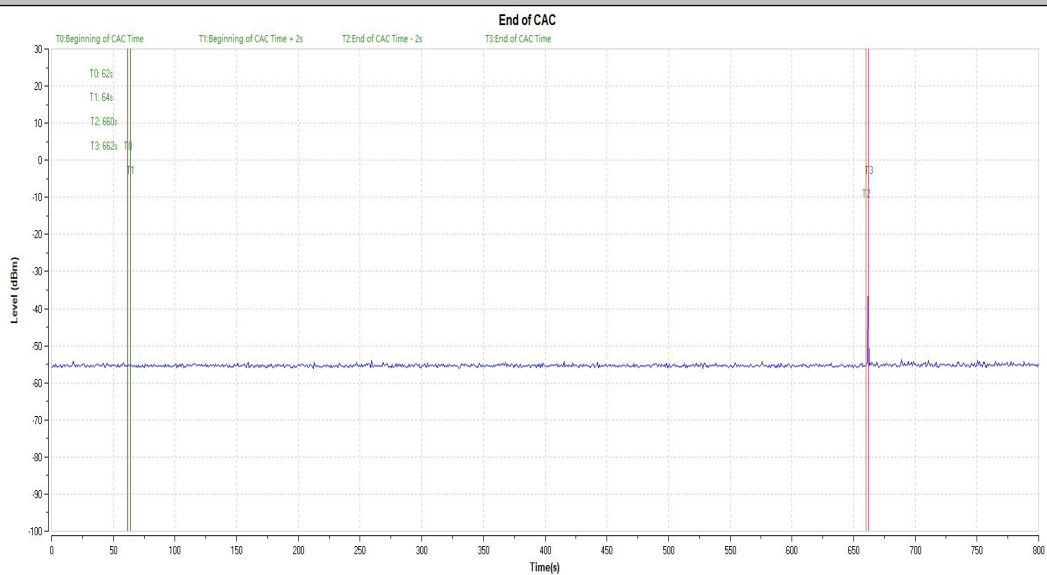
11A_5500



11AX160MIMO_5250



11AX160MIMO_5570

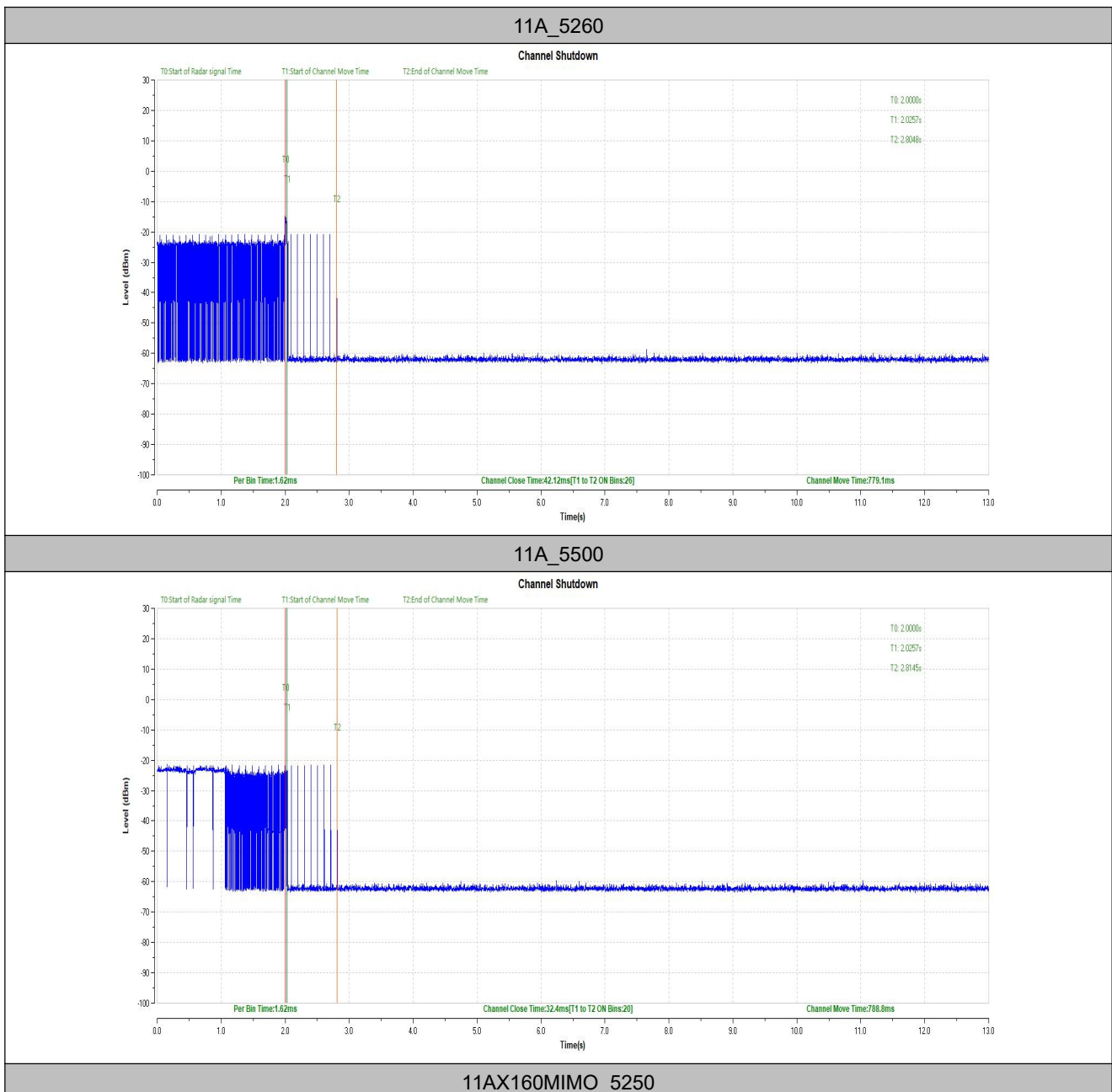


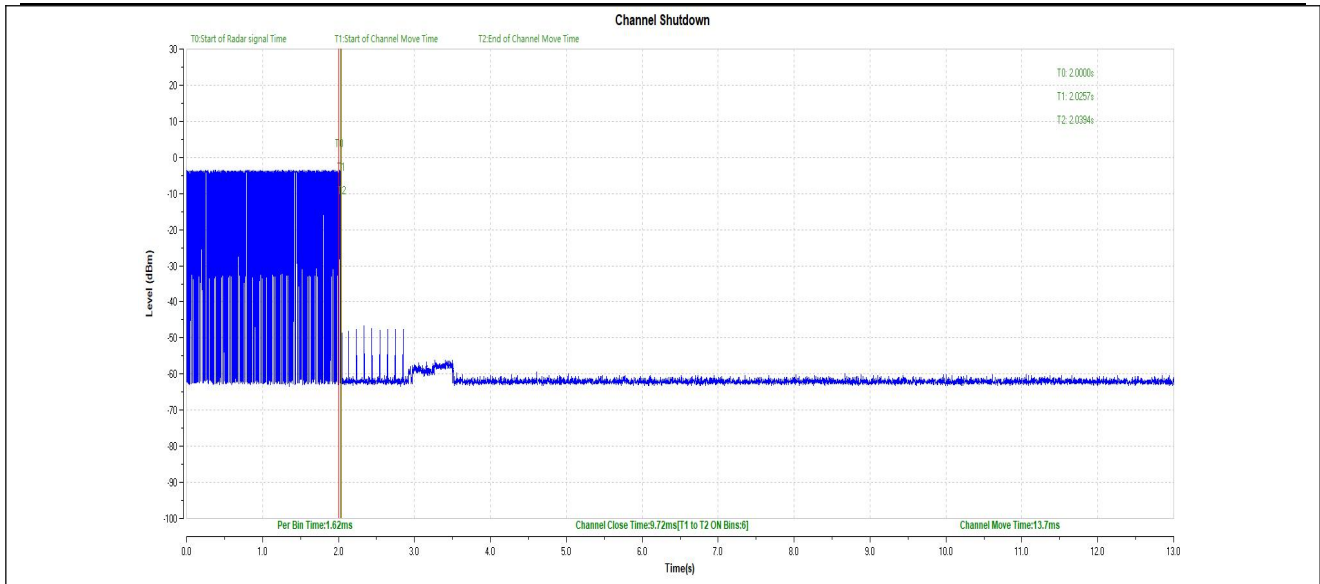
3.8.6.4 Channel Move Time and Channel Closing Transmission Time

3.8.6.4.1 Test Result

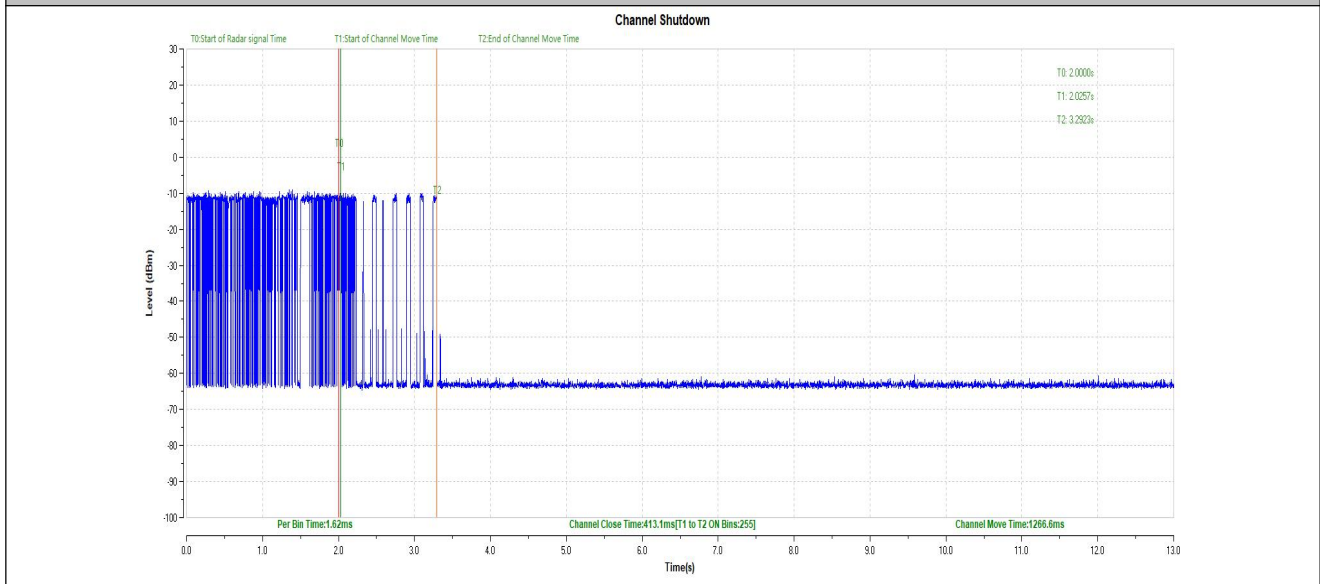
TestMode	Channel	CCTT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11A	5260	42.12	1000	779.1	10000	PASS
	5500	32.4	1000	788.8	10000	PASS
11AX160MIMO	5250	9.72	1000	13.7	10000	PASS
	5570	413.1	1000	1266.6	10000	PASS

3.8.6.4.2 Test Graphs





11AX160MIMO_5570

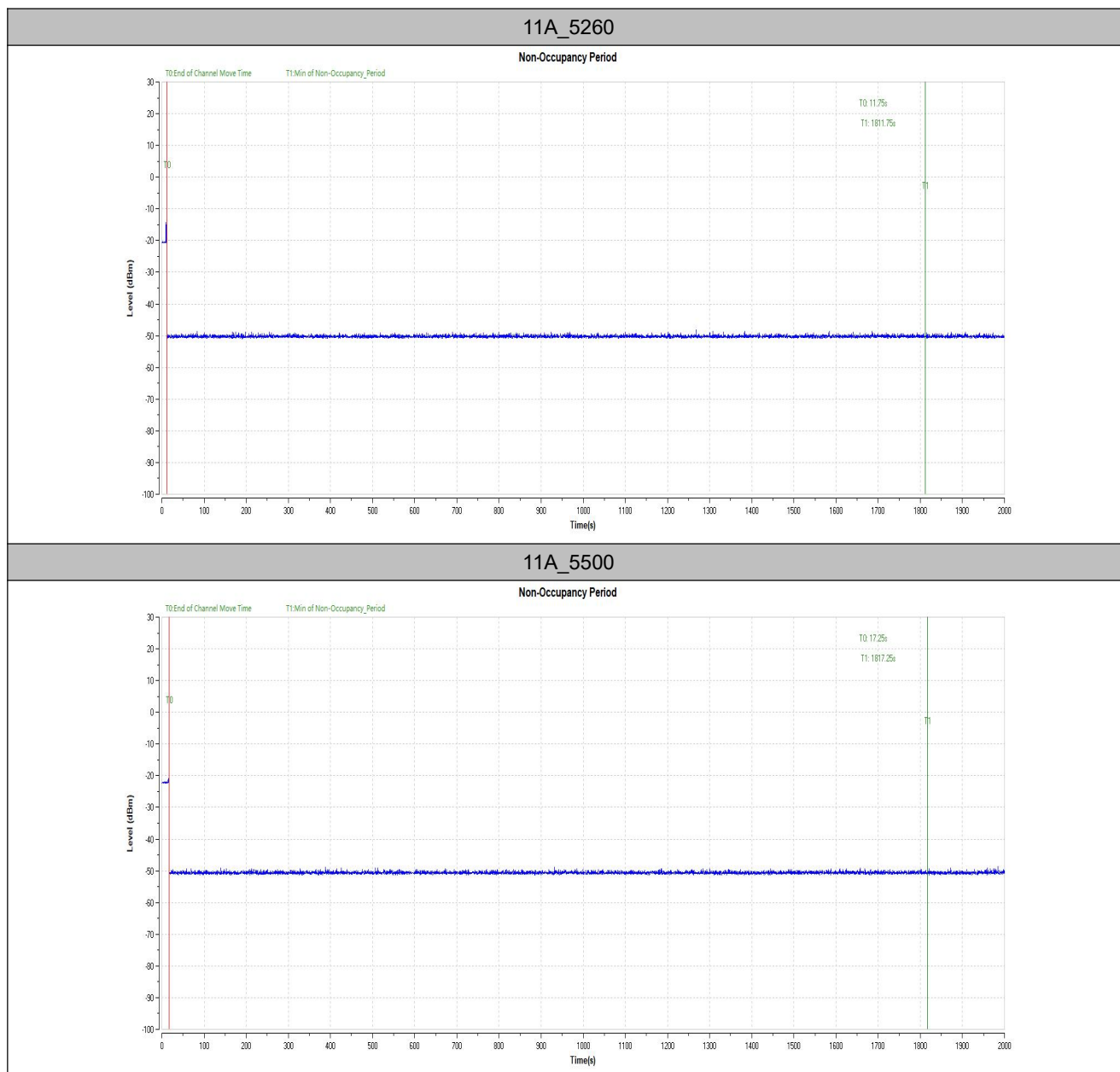


3.8.6.5 Non-Occupancy Period

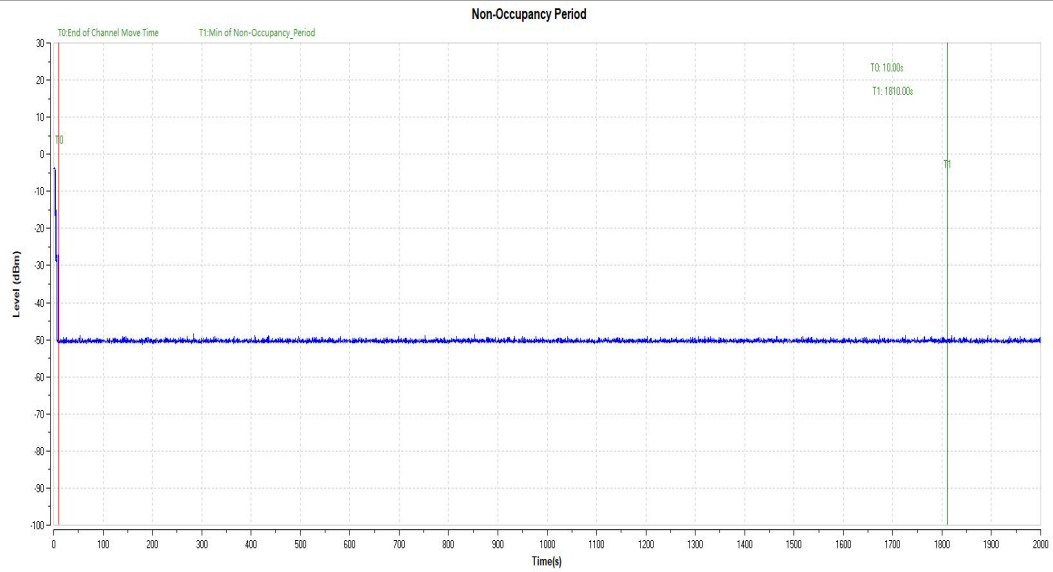
3.8.6.5.1 Test Result

TestMode	Channel	Result	Limit[s]	Verdict
11A	5260	see test graph	≥ 1800	PASS
	5500	see test graph	≥ 1800	PASS
11AX160MIMO	5250	see test graph	≥ 1800	PASS
	5570	see test graph	≥ 1800	PASS

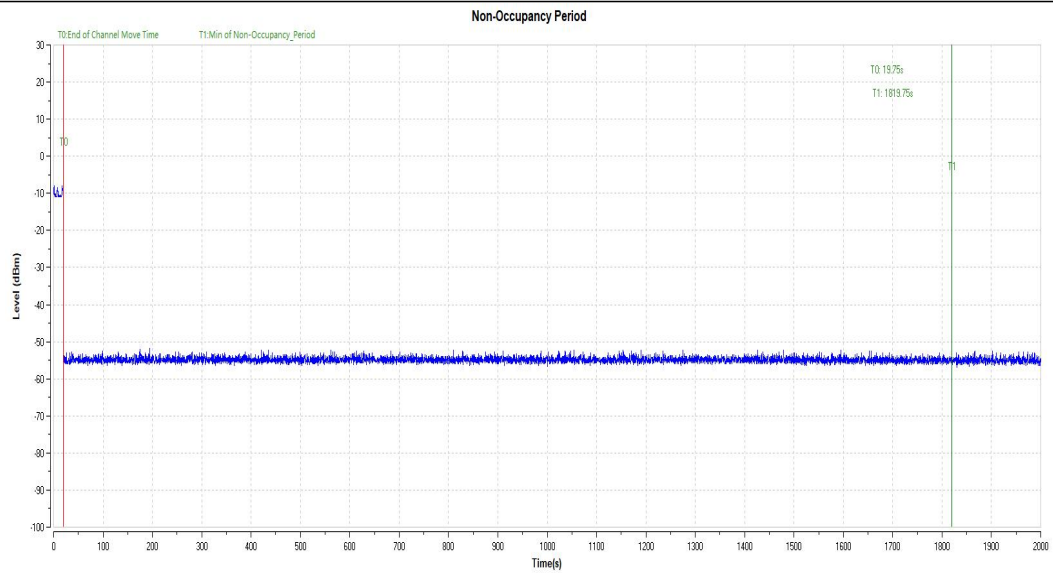
3.8.6.5.2 Test Graphs



11AX160MIMO_5250



11AX160MIMO_5570



3.8.6.6 Radar Detection Threshold during CAC

3.8.6.6.1 Test Result

TestMode	Channel	Radar Type	Pass Times	Fail Times	Probability (%)	Limit (%)	Verdict
11A	5260	Type1	17	3	85.00	60	PASS
		Type2	19	1	95.00	60	PASS
		Type3	18	2	90.00	60	PASS
		Type4	18	2	90.00	60	PASS
		Type5	18	2	90.00	60	PASS
		Type6	18	2	90.00	60	PASS
	5500	Type1	18	2	90.00	60	PASS
		Type2	18	2	90.00	60	PASS
		Type3	19	1	95.00	60	PASS
		Type4	17	3	85.00	60	PASS
		Type5	18	2	90.00	60	PASS
		Type6	17	3	85.00	60	PASS
11AX160MIMO	5250	Type1	17	3	85.00	60	PASS
		Type2	18	2	90.00	60	PASS
		Type3	18	2	90.00	60	PASS
		Type4	18	2	90.00	60	PASS
		Type5	18	2	90.00	60	PASS
		Type6	17	3	85.00	60	PASS
	5570	Type1	20	0	100	99.99	PASS
		Type2	20	0	100	99.99	PASS
		Type3	20	0	100	99.99	PASS
		Type4	20	0	100	99.99	PASS
		Type5	20	0	100	99.99	PASS
		Type6	20	0	100	99.99	PASS

TestMode	Freq(MHz)	Radar Type	Trial ID	Pulse width(μ s)	PRI(μ s)	Pulses per Burst	Detection (1: Yes; 0: No)
11A-CDD	5320	Type1	0	3.0	1550.4	10	1
		Type1	1	0.6	4347.8	10	1
		Type1	2	1.7	2375.3	10	1
		Type1	3	4.7	1058.2	10	1
		Type1	4	3.7	1292.0	10	1
		Type1	5	2.6	1724.1	10	1
		Type1	6	2.9	1574.8	10	1
		Type1	7	2.1	2024.3	10	1
		Type1	8	2.9	1594.9	10	1
		Type1	9	0.7	3984.1	10	1
		Type1	10	3.7	1295.3	10	1
		Type1	11	4.5	1100.1	10	1
		Type1	12	3.0	1560.1	10	1
		Type1	13	1.9	2217.3	10	1
		Type1	14	4.4	1116.1	10	1
		Type1	15	2.7	1669.4	10	1
		Type1	16	5.0	1011.1	10	1
		Type1	17	2.1	2092.1	10	1
		Type1	18	2.6	1730.1	10	1
		Type1	19	1.9	2202.6	10	1
		Type2	0	8.6	1022.5	15	1
		Type2	1	1.0	3952.6	15	1
		Type2	2	4.5	1706.5	15	1
		Type2	3	14.0	665.3	15	1
		Type2	4	10.9	830.6	15	1
		Type2	5	7.4	1157.4	15	1
		Type2	6	8.4	1040.6	15	1
		Type2	7	5.8	1400.6	15	1
		Type2	8	8.2	1054.9	15	1
		Type2	9	1.4	3448.3	15	1
		Type2	10	10.9	833.3	15	1
		Type2	11	13.4	694.4	15	1
		Type2	12	8.5	1028.8	15	1
		Type2	13	5.0	1562.5	15	1
		Type2	14	13.1	705.7	15	1
		Type2	15	7.7	1112.3	15	1
		Type2	16	14.8	632.5	15	1
		Type2	17	5.5	1455.6	15	1
		Type2	18	7.3	1161.4	15	1

	Type2	19	5.1	1550.4	15	1
	Type3	0	8.6	308.2	25	1
	Type3	1	1.0	422.8	25	1
	Type3	2	4.5	361.1	25	1
	Type3	3	14.0	257.6	25	1
	Type3	4	10.9	284.2	25	1
	Type3	5	7.4	321.9	25	1
	Type3	6	8.4	310.2	25	1
	Type3	7	5.8	342.0	25	1
	Type3	8	8.2	311.7	25	1
	Type3	9	1.4	414.9	25	1
	Type3	10	10.9	284.6	25	1
	Type3	11	13.4	262.7	25	1
	Type3	12	8.5	308.8	25	1
	Type3	13	5.0	352.9	25	1
	Type3	14	13.1	264.7	25	1
	Type3	15	7.7	317.6	25	1
	Type3	16	14.8	251.4	25	1
	Type3	17	5.5	345.8	25	1
	Type3	18	7.3	322.3	25	1
	Type3	19	5.1	352.1	25	1
	Type4	0	25.6	321.3	20	1
	Type4	1	20.3	481.7	20	1
	Type4	2	22.7	391.8	20	1
	Type4	3	29.3	259.0	20	1
	Type4	4	27.2	291.3	20	1
	Type4	5	24.7	339.1	20	1
	Type4	6	25.4	323.9	20	1
	Type4	7	23.7	365.8	20	1
	Type4	8	25.3	325.9	20	1
	Type4	9	20.6	469.7	20	1
	Type4	10	27.2	291.7	20	1
	Type4	11	28.9	265.2	20	1
	Type4	12	25.5	322.3	20	1
	Type4	13	23.1	380.5	20	1
	Type4	14	28.7	267.5	20	1
	Type4	15	25.0	333.4	20	1
	Type4	16	29.9	251.7	20	1
	Type4	17	23.5	370.9	20	1
	Type4	18	24.7	339.7	20	1
	Type4	19	23.2	379.4	20	1
	Type5	0	1.4	2809.0	30	1
	Type5	1	0.5	3300.3	20	1
	Type5	2	0.9	3058.1	20	1

		Type5	3	2.0	2544.5	30	1
		Type5	4	1.7	2688.2	30	0
		Type5	5	1.3	2881.8	20	1
		Type5	6	1.4	2824.9	30	1
		Type5	7	1.1	2967.4	20	1
		Type5	8	1.4	2832.9	30	1
		Type5	9	0.6	3268.0	20	0
		Type5	10	1.7	2688.2	30	1
		Type5	11	2.0	2570.7	30	1
		Type5	12	1.4	2816.9	30	1
		Type5	13	1.0	3021.1	20	1
		Type5	14	1.9	2584.0	30	1
		Type5	15	1.3	2857.1	20	1
		Type5	16	2.0	2506.3	30	1
		Type5	17	1.0	2985.1	20	1
		Type5	18	1.3	2881.8	20	1
		Type5	19	1.0	3012.0	20	0
		Type6	0	1.4	1183.4	45	1
		Type6	1	0.5	2325.6	30	0
		Type6	2	0.9	1610.3	30	1
		Type6	3	2.0	873.4	45	1
		Type6	4	1.7	1026.7	45	1
		Type6	5	1.3	1282.1	30	1
		Type6	6	1.4	1197.6	45	1
		Type6	7	1.1	1440.9	30	1
		Type6	8	1.4	1209.2	45	1
		Type6	9	0.6	2217.3	30	1
		Type6	10	1.7	1028.8	45	1
		Type6	11	2.0	901.7	45	1
		Type6	12	1.4	1189.1	45	1
		Type6	13	1.0	1536.1	30	1
		Type6	14	1.9	912.4	45	1
		Type6	15	1.3	1251.6	30	0
		Type6	16	2.0	841.0	45	0
		Type6	17	1.0	1474.9	30	0
		Type6	18	1.3	1285.3	30	1
		Type6	19	1.0	1529.1	30	0
	5500	Type1	0	3.0	1550.4	10	1
		Type1	1	0.6	4347.8	10	1
		Type1	2	1.7	2375.3	10	1
		Type1	3	4.7	1058.2	10	1
		Type1	4	3.7	1292.0	10	1
		Type1	5	2.6	1724.1	10	1
		Type1	6	2.9	1574.8	10	1

	Type1	7	2.1	2024.3	10	1
	Type1	8	2.9	1594.9	10	1
	Type1	9	0.7	3984.1	10	1
	Type1	10	3.7	1295.3	10	1
	Type1	11	4.5	1100.1	10	1
	Type1	12	3.0	1560.1	10	1
	Type1	13	1.9	2217.3	10	1
	Type1	14	4.4	1116.1	10	1
	Type1	15	2.7	1669.4	10	1
	Type1	16	5.0	1011.1	10	1
	Type1	17	2.1	2092.1	10	1
	Type1	18	2.6	1730.1	10	1
	Type1	19	1.9	2202.6	10	1
	Type2	0	8.6	1022.5	15	1
	Type2	1	1.0	3952.6	15	1
	Type2	2	4.5	1706.5	15	1
	Type2	3	14.0	665.3	15	1
	Type2	4	10.9	830.6	15	1
	Type2	5	7.4	1157.4	15	1
	Type2	6	8.4	1040.6	15	1
	Type2	7	5.8	1400.6	15	1
	Type2	8	8.2	1054.9	15	1
	Type2	9	1.4	3448.3	15	1
	Type2	10	10.9	833.3	15	1
	Type2	11	13.4	694.4	15	1
	Type2	12	8.5	1028.8	15	1
	Type2	13	5.0	1562.5	15	1
	Type2	14	13.1	705.7	15	1
	Type2	15	7.7	1112.3	15	1
	Type2	16	14.8	632.5	15	1
	Type2	17	5.5	1455.6	15	1
	Type2	18	7.3	1161.4	15	1
	Type2	19	5.1	1550.4	15	1
	Type3	0	8.6	308.2	25	1
	Type3	1	1.0	422.8	25	1
	Type3	2	4.5	361.1	25	1
	Type3	3	14.0	257.6	25	1
	Type3	4	10.9	284.2	25	1
	Type3	5	7.4	321.9	25	1
	Type3	6	8.4	310.2	25	1
	Type3	7	5.8	342.0	25	1
	Type3	8	8.2	311.7	25	1
	Type3	9	1.4	414.9	25	1
	Type3	10	10.9	284.6	25	0

	Type3	11	13.4	262.7	25	1
	Type3	12	8.5	308.8	25	1
	Type3	13	5.0	352.9	25	1
	Type3	14	13.1	264.7	25	1
	Type3	15	7.7	317.6	25	1
	Type3	16	14.8	251.4	25	1
	Type3	17	5.5	345.8	25	1
	Type3	18	7.3	322.3	25	1
	Type3	19	5.1	352.1	25	1
	Type4	0	25.6	321.3	20	1
	Type4	1	20.3	481.7	20	1
	Type4	2	22.7	391.8	20	1
	Type4	3	29.3	259.0	20	1
	Type4	4	27.2	291.3	20	1
	Type4	5	24.7	339.1	20	1
	Type4	6	25.4	323.9	20	1
	Type4	7	23.7	365.8	20	1
	Type4	8	25.3	325.9	20	1
	Type4	9	20.6	469.7	20	1
	Type4	10	27.2	291.7	20	1
	Type4	11	28.9	265.2	20	1
	Type4	12	25.5	322.3	20	1
	Type4	13	23.1	380.5	20	1
	Type4	14	28.7	267.5	20	1
	Type4	15	25.0	333.4	20	1
	Type4	16	29.9	251.7	20	1
	Type4	17	23.5	370.9	20	1
	Type4	18	24.7	339.7	20	1
	Type4	19	23.2	379.4	20	1
	Type5	0	1.4	2809.0	30	1
	Type5	1	0.5	3300.3	20	1
	Type5	2	0.9	3058.1	20	1
	Type5	3	2.0	2544.5	30	0
	Type5	4	1.7	2688.2	30	0
	Type5	5	1.3	2881.8	20	0
	Type5	6	1.4	2824.9	30	1
	Type5	7	1.1	2967.4	20	1
	Type5	8	1.4	2832.9	30	1
	Type5	9	0.6	3268.0	20	0
	Type5	10	1.7	2688.2	30	1
	Type5	11	2.0	2570.7	30	1
	Type5	12	1.4	2816.9	30	1
	Type5	13	1.0	3021.1	20	1
	Type5	14	1.9	2584.0	30	1

		Type5	15	1.3	2857.1	20	1
		Type5	16	2.0	2506.3	30	1
		Type5	17	1.0	2985.1	20	1
		Type5	18	1.3	2881.8	20	1
		Type5	19	1.0	3012.0	20	1
		Type6	0	1.4	1183.4	45	1
		Type6	1	0.5	2325.6	30	1
		Type6	2	0.9	1610.3	30	1
		Type6	3	2.0	873.4	45	1
		Type6	4	1.7	1026.7	45	1
		Type6	5	1.3	1282.1	30	1
		Type6	6	1.4	1197.6	45	1
		Type6	7	1.1	1440.9	30	1
		Type6	8	1.4	1209.2	45	1
		Type6	9	0.6	2217.3	30	0
		Type6	10	1.7	1028.8	45	1
		Type6	11	2.0	901.7	45	1
		Type6	12	1.4	1189.1	45	1
		Type6	13	1.0	1536.1	30	1
		Type6	14	1.9	912.4	45	1
		Type6	15	1.3	1251.6	30	1
		Type6	16	2.0	841.0	45	1
		Type6	17	1.0	1474.9	30	1
		Type6	18	1.3	1285.3	30	1
		Type6	19	1.0	1529.1	30	1
11AX160MIMO	5250	Type1	0	3.0	1550.4	10	1
		Type1	1	0.6	4347.8	10	1
		Type1	2	1.7	2375.3	10	1
		Type1	3	4.7	1058.2	10	1
		Type1	4	3.7	1292.0	10	1
		Type1	5	2.6	1724.1	10	1
		Type1	6	2.9	1574.8	10	1
		Type1	7	2.1	2024.3	10	1
		Type1	8	2.9	1594.9	10	1
		Type1	9	0.7	3984.1	10	1
		Type1	10	3.7	1295.3	10	1
		Type1	11	4.5	1100.1	10	1
		Type1	12	3.0	1560.1	10	1
		Type1	13	1.9	2217.3	10	1
		Type1	14	4.4	1116.1	10	1
		Type1	15	2.7	1669.4	10	1
		Type1	16	5.0	1011.1	10	1
		Type1	17	2.1	2092.1	10	1
		Type1	18	2.6	1730.1	10	1

	Type1	19	1.9	2202.6	10	1
	Type2	0	8.6	1022.5	15	1
	Type2	1	1.0	3952.6	15	1
	Type2	2	4.5	1706.5	15	1
	Type2	3	14.0	665.3	15	1
	Type2	4	10.9	830.6	15	1
	Type2	5	7.4	1157.4	15	1
	Type2	6	8.4	1040.6	15	1
	Type2	7	5.8	1400.6	15	1
	Type2	8	8.2	1054.9	15	1
	Type2	9	1.4	3448.3	15	1
	Type2	10	10.9	833.3	15	1
	Type2	11	13.4	694.4	15	1
	Type2	12	8.5	1028.8	15	1
	Type2	13	5.0	1562.5	15	1
	Type2	14	13.1	705.7	15	1
	Type2	15	7.7	1112.3	15	1
	Type2	16	14.8	632.5	15	1
	Type2	17	5.5	1455.6	15	1
	Type2	18	7.3	1161.4	15	1
	Type2	19	5.1	1550.4	15	1
	Type3	0	8.6	308.2	25	1
	Type3	1	1.0	422.8	25	1
	Type3	2	4.5	361.1	25	0
	Type3	3	14.0	257.6	25	1
	Type3	4	10.9	284.2	25	1
	Type3	5	7.4	321.9	25	1
	Type3	6	8.4	310.2	25	1
	Type3	7	5.8	342.0	25	1
	Type3	8	8.2	311.7	25	1
	Type3	9	1.4	414.9	25	1
	Type3	10	10.9	284.6	25	1
	Type3	11	13.4	262.7	25	1
	Type3	12	8.5	308.8	25	1
	Type3	13	5.0	352.9	25	1
	Type3	14	13.1	264.7	25	1
	Type3	15	7.7	317.6	25	1
	Type3	16	14.8	251.4	25	1
	Type3	17	5.5	345.8	25	1
	Type3	18	7.3	322.3	25	1
	Type3	19	5.1	352.1	25	1
	Type4	0	25.6	321.3	20	1
	Type4	1	20.3	481.7	20	1
	Type4	2	22.7	391.8	20	1

	Type4	3	29.3	259.0	20	1
	Type4	4	27.2	291.3	20	1
	Type4	5	24.7	339.1	20	1
	Type4	6	25.4	323.9	20	1
	Type4	7	23.7	365.8	20	1
	Type4	8	25.3	325.9	20	1
	Type4	9	20.6	469.7	20	1
	Type4	10	27.2	291.7	20	1
	Type4	11	28.9	265.2	20	1
	Type4	12	25.5	322.3	20	1
	Type4	13	23.1	380.5	20	1
	Type4	14	28.7	267.5	20	1
	Type4	15	25.0	333.4	20	1
	Type4	16	29.9	251.7	20	1
	Type4	17	23.5	370.9	20	1
	Type4	18	24.7	339.7	20	1
	Type4	19	23.2	379.4	20	1
	Type5	0	1.4	2809.0	30	1
	Type5	1	0.5	3300.3	20	1
	Type5	2	0.9	3058.1	20	1
	Type5	3	2.0	2544.5	30	1
	Type5	4	1.7	2688.2	30	1
	Type5	5	1.3	2881.8	20	1
	Type5	6	1.4	2824.9	30	0
	Type5	7	1.1	2967.4	20	0
	Type5	8	1.4	2832.9	30	1
	Type5	9	0.6	3268.0	20	1
	Type5	10	1.7	2688.2	30	1
	Type5	11	2.0	2570.7	30	1
	Type5	12	1.4	2816.9	30	1
	Type5	13	1.0	3021.1	20	1
	Type5	14	1.9	2584.0	30	1
	Type5	15	1.3	2857.1	20	1
	Type5	16	2.0	2506.3	30	1
	Type5	17	1.0	2985.1	20	1
	Type5	18	1.3	2881.8	20	1
	Type5	19	1.0	3012.0	20	1
	Type6	0	1.4	1183.4	45	1
	Type6	1	0.5	2325.6	30	1
	Type6	2	0.9	1610.3	30	1
	Type6	3	2.0	873.4	45	1
	Type6	4	1.7	1026.7	45	1
	Type6	5	1.3	1282.1	30	1
	Type6	6	1.4	1197.6	45	1

		Type6	7	1.1	1440.9	30	1
		Type6	8	1.4	1209.2	45	1
		Type6	9	0.6	2217.3	30	1
		Type6	10	1.7	1028.8	45	1
		Type6	11	2.0	901.7	45	1
		Type6	12	1.4	1189.1	45	1
		Type6	13	1.0	1536.1	30	1
		Type6	14	1.9	912.4	45	0
		Type6	15	1.3	1251.6	30	1
		Type6	16	2.0	841.0	45	1
		Type6	17	1.0	1474.9	30	0
		Type6	18	1.3	1285.3	30	1
		Type6	19	1.0	1529.1	30	1
	5570	Type1	0	3.0	1550.4	18	1
		Type1	1	0.6	4347.8	18	1
		Type1	2	1.7	2375.3	18	1
		Type1	3	4.7	1058.2	18	1
		Type1	4	3.7	1292.0	18	1
		Type1	5	2.6	1724.1	18	1
		Type1	6	2.9	1574.8	18	1
		Type1	7	2.1	2024.3	18	1
		Type1	8	2.9	1594.9	18	1
		Type1	9	0.7	3984.1	18	1
		Type1	10	3.7	1295.3	18	1
		Type1	11	4.5	1100.1	18	1
		Type1	12	3.0	1560.1	18	1
		Type1	13	1.9	2217.3	18	1
		Type1	14	4.4	1116.1	18	1
		Type1	15	2.7	1669.4	18	1
		Type1	16	5.0	1011.1	18	1
		Type1	17	2.1	2092.1	18	1
		Type1	18	2.6	1730.1	18	1
		Type1	19	1.9	2202.6	18	1
		Type2	0	8.6	1022.5	18	1
		Type2	1	1.0	3952.6	18	1
		Type2	2	4.5	1706.5	18	1
		Type2	3	14.0	665.3	18	1
		Type2	4	10.9	830.6	18	1
		Type2	5	7.4	1157.4	18	1
		Type2	6	8.4	1040.6	18	1
		Type2	7	5.8	1400.6	18	1
		Type2	8	8.2	1054.9	18	1
		Type2	9	1.4	3448.3	18	1
		Type2	10	10.9	833.3	18	1

	Type2	11	13.4	694.4	18	1
	Type2	12	8.5	1028.8	18	1
	Type2	13	5.0	1562.5	18	1
	Type2	14	13.1	705.7	18	1
	Type2	15	7.7	1112.3	18	1
	Type2	16	14.8	632.5	18	1
	Type2	17	5.5	1455.6	18	1
	Type2	18	7.3	1161.4	18	1
	Type2	19	5.1	1550.4	18	1
	Type5	0	1.4	2809.0	54	1
	Type5	1	0.5	3300.3	36	1
	Type5	2	0.9	3058.1	36	1
	Type5	3	2.0	2544.5	54	1
	Type5	4	1.7	2688.2	54	1
	Type5	5	1.3	2881.8	36	1
	Type5	6	1.4	2824.9	54	1
	Type5	7	1.1	2967.4	36	1
	Type5	8	1.4	2832.9	54	1
	Type5	9	0.6	3268.0	36	1
	Type5	10	1.7	2688.2	54	1
	Type5	11	2.0	2570.7	54	1
	Type5	12	1.4	2816.9	54	1
	Type5	13	1.0	3021.1	36	1
	Type5	14	1.9	2584.0	54	1
	Type5	15	1.3	2857.1	36	1
	Type5	16	2.0	2506.3	54	1
	Type5	17	1.0	2985.1	36	1
	Type5	18	1.3	2881.8	36	1
	Type5	19	1.0	3012.0	36	1
	Type6	0	1.4	1183.4	54	1
	Type6	1	0.5	2325.6	36	1
	Type6	2	0.9	1610.3	36	1
	Type6	3	2.0	873.4	54	1
	Type6	4	1.7	1026.7	54	1
	Type6	5	1.3	1282.1	36	1
	Type6	6	1.4	1197.6	54	1
	Type6	7	1.1	1440.9	36	1
	Type6	8	1.4	1209.2	54	1
	Type6	9	0.6	2217.3	36	1
	Type6	10	1.7	1028.8	54	1
	Type6	11	2.0	901.7	54	1
	Type6	12	1.4	1189.1	54	1
	Type6	13	1.0	1536.1	36	1
	Type6	14	1.9	912.4	54	1

		Type6	15	1.3	1251.6	36	1
		Type6	16	2.0	841.0	54	1
		Type6	17	1.0	1474.9	36	1
		Type6	18	1.3	1285.3	36	1
		Type6	19	1.0	1529.1	36	1

3.8.6.6 In-Service Monitoring

3.8.6.6.1 Test Result

TestMode	Channel	Radar Type	Pass Times	Fail Times	Probability (%)	Limit (%)	Verdict
11A	5260	Type1	18	2	90.00	60	PASS
		Type2	17	3	85.00	60	PASS
		Type3	18	2	90.00	60	PASS
		Type4	17	3	85.00	60	PASS
		Type5	16	4	80.00	60	PASS
		Type6	16	4	80.00	60	PASS
	5500	Type1	17	3	85.00	60	PASS
		Type2	16	4	80.00	60	PASS
		Type3	17	3	85.00	60	PASS
		Type4	17	3	85.00	60	PASS
		Type5	18	2	90.00	60	PASS
		Type6	17	3	85.00	60	PASS
11AX160MIMO	5250	Type1	16	4	80.00	60	PASS
		Type2	17	3	85.00	60	PASS
		Type3	17	3	85.00	60	PASS
		Type4	17	3	85.00	60	PASS
		Type5	16	4	80.00	60	PASS
		Type6	17	3	85.00	60	PASS
	5570	Type1	16	4	80.00	60	PASS
		Type2	17	3	85.00	60	PASS
		Type3	17	3	85.00	60	PASS
		Type4	16	4	80.00	60	PASS
		Type5	17	3	85.00	60	PASS
		Type6	18	2	90.00	60	PASS

TestMode	Freq(MHz)	Radar Type	Trial ID	Pulse width(μs)	PRI(μs)	Pulses per Burst	Detection (1: Yes; 0: No)
11A-CDD	5320	Type1	0	3.0	1550.4	10	1
		Type1	1	0.6	4347.8	10	1
		Type1	2	1.7	2375.3	10	1
		Type1	3	4.7	1058.2	10	1
		Type1	4	3.7	1292.0	10	1
		Type1	5	2.6	1724.1	10	1
		Type1	6	2.9	1574.8	10	1
		Type1	7	2.1	2024.3	10	1
		Type1	8	2.9	1594.9	10	0
		Type1	9	0.7	3984.1	10	1
		Type1	10	3.7	1295.3	10	1
		Type1	11	4.5	1100.1	10	1
		Type1	12	3.0	1560.1	10	1
		Type1	13	1.9	2217.3	10	1
		Type1	14	4.4	1116.1	10	0
		Type1	15	2.7	1669.4	10	1
		Type1	16	5.0	1011.1	10	1
		Type1	17	2.1	2092.1	10	0
		Type1	18	2.6	1730.1	10	1
		Type1	19	1.9	2202.6	10	1
		Type2	0	8.6	1022.5	15	1
		Type2	1	1.0	3952.6	15	0
		Type2	2	4.5	1706.5	15	0
		Type2	3	14.0	665.3	15	0
		Type2	4	10.9	830.6	15	0
		Type2	5	7.4	1157.4	15	1
		Type2	6	8.4	1040.6	15	0
		Type2	7	5.8	1400.6	15	1
		Type2	8	8.2	1054.9	15	1
		Type2	9	1.4	3448.3	15	1
		Type2	10	10.9	833.3	15	1
		Type2	11	13.4	694.4	15	0
		Type2	12	8.5	1028.8	15	1
		Type2	13	5.0	1562.5	15	1
		Type2	14	13.1	705.7	15	1
		Type2	15	7.7	1112.3	15	1
		Type2	16	14.8	632.5	15	1
		Type2	17	5.5	1455.6	15	1
		Type2	18	7.3	1161.4	15	0
		Type2	19	5.1	1550.4	15	1

	Type3	0	8.6	308.2	25	0
	Type3	1	1.0	422.8	25	1
	Type3	2	4.5	361.1	25	0
	Type3	3	14.0	257.6	25	0
	Type3	4	10.9	284.2	25	1
	Type3	5	7.4	321.9	25	1
	Type3	6	8.4	310.2	25	1
	Type3	7	5.8	342.0	25	1
	Type3	8	8.2	311.7	25	1
	Type3	9	1.4	414.9	25	1
	Type3	10	10.9	284.6	25	1
	Type3	11	13.4	262.7	25	0
	Type3	12	8.5	308.8	25	1
	Type3	13	5.0	352.9	25	1
	Type3	14	13.1	264.7	25	1
	Type3	15	7.7	317.6	25	0
	Type3	16	14.8	251.4	25	1
	Type3	17	5.5	345.8	25	1
	Type3	18	7.3	322.3	25	0
	Type3	19	5.1	352.1	25	1
	Type4	0	25.6	321.3	20	0
	Type4	1	20.3	481.7	20	0
	Type4	2	22.7	391.8	20	1
	Type4	3	29.3	259.0	20	1
	Type4	4	27.2	291.3	20	1
	Type4	5	24.7	339.1	20	1
	Type4	6	25.4	323.9	20	1
	Type4	7	23.7	365.8	20	1
	Type4	8	25.3	325.9	20	1
	Type4	9	20.6	469.7	20	1
	Type4	10	27.2	291.7	20	1
	Type4	11	28.9	265.2	20	1
	Type4	12	25.5	322.3	20	1
	Type4	13	23.1	380.5	20	1
	Type4	14	28.7	267.5	20	1
	Type4	15	25.0	333.4	20	0
	Type4	16	29.9	251.7	20	1
	Type4	17	23.5	370.9	20	1
	Type4	18	24.7	339.7	20	0
	Type4	19	23.2	379.4	20	1
	Type5	0	1.4	2809.0	30	1
	Type5	1	0.5	3300.3	20	1
	Type5	2	0.9	3058.1	20	0
	Type5	3	2.0	2544.5	30	1

		Type5	4	1.7	2688.2	30	1
		Type5	5	1.3	2881.8	20	0
		Type5	6	1.4	2824.9	30	1
		Type5	7	1.1	2967.4	20	1
		Type5	8	1.4	2832.9	30	1
		Type5	9	0.6	3268.0	20	0
		Type5	10	1.7	2688.2	30	0
		Type5	11	2.0	2570.7	30	1
		Type5	12	1.4	2816.9	30	1
		Type5	13	1.0	3021.1	20	1
		Type5	14	1.9	2584.0	30	1
		Type5	15	1.3	2857.1	20	0
		Type5	16	2.0	2506.3	30	1
		Type5	17	1.0	2985.1	20	0
		Type5	18	1.3	2881.8	20	1
		Type5	19	1.0	3012.0	20	1
		Type6	0	1.4	1183.4	45	1
		Type6	1	0.5	2325.6	30	1
		Type6	2	0.9	1610.3	30	1
		Type6	3	2.0	873.4	45	1
		Type6	4	1.7	1026.7	45	1
		Type6	5	1.3	1282.1	30	0
		Type6	6	1.4	1197.6	45	0
		Type6	7	1.1	1440.9	30	0
		Type6	8	1.4	1209.2	45	1
		Type6	9	0.6	2217.3	30	1
		Type6	10	1.7	1028.8	45	1
		Type6	11	2.0	901.7	45	1
		Type6	12	1.4	1189.1	45	1
		Type6	13	1.0	1536.1	30	0
		Type6	14	1.9	912.4	45	1
		Type6	15	1.3	1251.6	30	1
		Type6	16	2.0	841.0	45	1
		Type6	17	1.0	1474.9	30	1
		Type6	18	1.3	1285.3	30	1
		Type6	19	1.0	1529.1	30	0
	5500	Type1	0	3.0	1550.4	10	1
		Type1	1	0.6	4347.8	10	1
		Type1	2	1.7	2375.3	10	1
		Type1	3	4.7	1058.2	10	1
		Type1	4	3.7	1292.0	10	1
		Type1	5	2.6	1724.1	10	1
		Type1	6	2.9	1574.8	10	1
		Type1	7	2.1	2024.3	10	1

	Type1	8	2.9	1594.9	10	1
	Type1	9	0.7	3984.1	10	0
	Type1	10	3.7	1295.3	10	0
	Type1	11	4.5	1100.1	10	1
	Type1	12	3.0	1560.1	10	1
	Type1	13	1.9	2217.3	10	1
	Type1	14	4.4	1116.1	10	1
	Type1	15	2.7	1669.4	10	1
	Type1	16	5.0	1011.1	10	1
	Type1	17	2.1	2092.1	10	0
	Type1	18	2.6	1730.1	10	0
	Type1	19	1.9	2202.6	10	0
	Type2	0	8.6	1022.5	15	1
	Type2	1	1.0	3952.6	15	1
	Type2	2	4.5	1706.5	15	1
	Type2	3	14.0	665.3	15	1
	Type2	4	10.9	830.6	15	0
	Type2	5	7.4	1157.4	15	0
	Type2	6	8.4	1040.6	15	0
	Type2	7	5.8	1400.6	15	1
	Type2	8	8.2	1054.9	15	1
	Type2	9	1.4	3448.3	15	1
	Type2	10	10.9	833.3	15	1
	Type2	11	13.4	694.4	15	0
	Type2	12	8.5	1028.8	15	1
	Type2	13	5.0	1562.5	15	1
	Type2	14	13.1	705.7	15	1
	Type2	15	7.7	1112.3	15	1
	Type2	16	14.8	632.5	15	1
	Type2	17	5.5	1455.6	15	1
	Type2	18	7.3	1161.4	15	1
	Type2	19	5.1	1550.4	15	1
	Type3	0	8.6	308.2	25	1
	Type3	1	1.0	422.8	25	1
	Type3	2	4.5	361.1	25	1
	Type3	3	14.0	257.6	25	1
	Type3	4	10.9	284.2	25	1
	Type3	5	7.4	321.9	25	1
	Type3	6	8.4	310.2	25	1
	Type3	7	5.8	342.0	25	1
	Type3	8	8.2	311.7	25	1
	Type3	9	1.4	414.9	25	0
	Type3	10	10.9	284.6	25	0
	Type3	11	13.4	262.7	25	0

	Type3	12	8.5	308.8	25	1
	Type3	13	5.0	352.9	25	1
	Type3	14	13.1	264.7	25	0
	Type3	15	7.7	317.6	25	0
	Type3	16	14.8	251.4	25	1
	Type3	17	5.5	345.8	25	1
	Type3	18	7.3	322.3	25	1
	Type3	19	5.1	352.1	25	1
	Type4	0	25.6	321.3	20	1
	Type4	1	20.3	481.7	20	1
	Type4	2	22.7	391.8	20	1
	Type4	3	29.3	259.0	20	0
	Type4	4	27.2	291.3	20	0
	Type4	5	24.7	339.1	20	0
	Type4	6	25.4	323.9	20	0
	Type4	7	23.7	365.8	20	1
	Type4	8	25.3	325.9	20	1
	Type4	9	20.6	469.7	20	1
	Type4	10	27.2	291.7	20	0
	Type4	11	28.9	265.2	20	1
	Type4	12	25.5	322.3	20	1
	Type4	13	23.1	380.5	20	1
	Type4	14	28.7	267.5	20	1
	Type4	15	25.0	333.4	20	1
	Type4	16	29.9	251.7	20	1
	Type4	17	23.5	370.9	20	1
	Type4	18	24.7	339.7	20	1
	Type4	19	23.2	379.4	20	1
	Type5	0	1.4	2809.0	30	1
	Type5	1	0.5	3300.3	20	1
	Type5	2	0.9	3058.1	20	0
	Type5	3	2.0	2544.5	30	1
	Type5	4	1.7	2688.2	30	1
	Type5	5	1.3	2881.8	20	0
	Type5	6	1.4	2824.9	30	1
	Type5	7	1.1	2967.4	20	0
	Type5	8	1.4	2832.9	30	1
	Type5	9	0.6	3268.0	20	0
	Type5	10	1.7	2688.2	30	1
	Type5	11	2.0	2570.7	30	1
	Type5	12	1.4	2816.9	30	1
	Type5	13	1.0	3021.1	20	0
	Type5	14	1.9	2584.0	30	1
	Type5	15	1.3	2857.1	20	1

		Type5	16	2.0	2506.3	30	1
		Type5	17	1.0	2985.1	20	0
		Type5	18	1.3	2881.8	20	1
		Type5	19	1.0	3012.0	20	1
		Type6	0	1.4	1183.4	45	1
		Type6	1	0.5	2325.6	30	1
		Type6	2	0.9	1610.3	30	1
		Type6	3	2.0	873.4	45	1
		Type6	4	1.7	1026.7	45	1
		Type6	5	1.3	1282.1	30	1
		Type6	6	1.4	1197.6	45	1
		Type6	7	1.1	1440.9	30	1
		Type6	8	1.4	1209.2	45	1
		Type6	9	0.6	2217.3	30	0
		Type6	10	1.7	1028.8	45	1
		Type6	11	2.0	901.7	45	1
		Type6	12	1.4	1189.1	45	1
		Type6	13	1.0	1536.1	30	1
		Type6	14	1.9	912.4	45	1
		Type6	15	1.3	1251.6	30	1
		Type6	16	2.0	841.0	45	1
		Type6	17	1.0	1474.9	30	0
		Type6	18	1.3	1285.3	30	1
		Type6	19	1.0	1529.1	30	1
11AX160MIMO	5250	Type1	0	3.0	1550.4	10	1
		Type1	1	0.6	4347.8	10	1
		Type1	2	1.7	2375.3	10	0
		Type1	3	4.7	1058.2	10	1
		Type1	4	3.7	1292.0	10	1
		Type1	5	2.6	1724.1	10	1
		Type1	6	2.9	1574.8	10	1
		Type1	7	2.1	2024.3	10	1
		Type1	8	2.9	1594.9	10	1
		Type1	9	0.7	3984.1	10	0
		Type1	10	3.7	1295.3	10	0
		Type1	11	4.5	1100.1	10	1
		Type1	12	3.0	1560.1	10	1
		Type1	13	1.9	2217.3	10	1
		Type1	14	4.4	1116.1	10	1
		Type1	15	2.7	1669.4	10	1
		Type1	16	5.0	1011.1	10	0
		Type1	17	2.1	2092.1	10	0
		Type1	18	2.6	1730.1	10	1
		Type1	19	1.9	2202.6	10	0

	Type2	0	8.6	1022.5	15	1
	Type2	1	1.0	3952.6	15	1
	Type2	2	4.5	1706.5	15	1
	Type2	3	14.0	665.3	15	1
	Type2	4	10.9	830.6	15	1
	Type2	5	7.4	1157.4	15	1
	Type2	6	8.4	1040.6	15	1
	Type2	7	5.8	1400.6	15	1
	Type2	8	8.2	1054.9	15	1
	Type2	9	1.4	3448.3	15	0
	Type2	10	10.9	833.3	15	1
	Type2	11	13.4	694.4	15	1
	Type2	12	8.5	1028.8	15	1
	Type2	13	5.0	1562.5	15	1
	Type2	14	13.1	705.7	15	1
	Type2	15	7.7	1112.3	15	0
	Type2	16	14.8	632.5	15	0
	Type2	17	5.5	1455.6	15	1
	Type2	18	7.3	1161.4	15	0
	Type2	19	5.1	1550.4	15	1
	Type3	0	8.6	308.2	25	0
	Type3	1	1.0	422.8	25	1
	Type3	2	4.5	361.1	25	1
	Type3	3	14.0	257.6	25	1
	Type3	4	10.9	284.2	25	1
	Type3	5	7.4	321.9	25	1
	Type3	6	8.4	310.2	25	1
	Type3	7	5.8	342.0	25	1
	Type3	8	8.2	311.7	25	1
	Type3	9	1.4	414.9	25	1
	Type3	10	10.9	284.6	25	1
	Type3	11	13.4	262.7	25	1
	Type3	12	8.5	308.8	25	1
	Type3	13	5.0	352.9	25	0
	Type3	14	13.1	264.7	25	1
	Type3	15	7.7	317.6	25	1
	Type3	16	14.8	251.4	25	0
	Type3	17	5.5	345.8	25	1
	Type3	18	7.3	322.3	25	1
	Type3	19	5.1	352.1	25	1
	Type4	0	25.6	321.3	20	1
	Type4	1	20.3	481.7	20	0
	Type4	2	22.7	391.8	20	1
	Type4	3	29.3	259.0	20	0

	Type4	4	27.2	291.3	20	1
	Type4	5	24.7	339.1	20	0
	Type4	6	25.4	323.9	20	1
	Type4	7	23.7	365.8	20	1
	Type4	8	25.3	325.9	20	1
	Type4	9	20.6	469.7	20	1
	Type4	10	27.2	291.7	20	1
	Type4	11	28.9	265.2	20	1
	Type4	12	25.5	322.3	20	0
	Type4	13	23.1	380.5	20	1
	Type4	14	28.7	267.5	20	1
	Type4	15	25.0	333.4	20	1
	Type4	16	29.9	251.7	20	0
	Type4	17	23.5	370.9	20	1
	Type4	18	24.7	339.7	20	0
	Type4	19	23.2	379.4	20	1
	Type5	0	1.4	2809.0	30	1
	Type5	1	0.5	3300.3	20	0
	Type5	2	0.9	3058.1	20	0
	Type5	3	2.0	2544.5	30	1
	Type5	4	1.7	2688.2	30	1
	Type5	5	1.3	2881.8	20	0
	Type5	6	1.4	2824.9	30	1
	Type5	7	1.1	2967.4	20	0
	Type5	8	1.4	2832.9	30	1
	Type5	9	0.6	3268.0	20	1
	Type5	10	1.7	2688.2	30	1
	Type5	11	2.0	2570.7	30	1
	Type5	12	1.4	2816.9	30	1
	Type5	13	1.0	3021.1	20	0
	Type5	14	1.9	2584.0	30	1
	Type5	15	1.3	2857.1	20	0
	Type5	16	2.0	2506.3	30	1
	Type5	17	1.0	2985.1	20	1
	Type5	18	1.3	2881.8	20	1
	Type5	19	1.0	3012.0	20	1
	Type6	0	1.4	1183.4	45	1
	Type6	1	0.5	2325.6	30	1
	Type6	2	0.9	1610.3	30	0
	Type6	3	2.0	873.4	45	1
	Type6	4	1.7	1026.7	45	1
	Type6	5	1.3	1282.1	30	1
	Type6	6	1.4	1197.6	45	1
	Type6	7	1.1	1440.9	30	0

		Type6	8	1.4	1209.2	45	1
		Type6	9	0.6	2217.3	30	1
		Type6	10	1.7	1028.8	45	1
		Type6	11	2.0	901.7	45	1
		Type6	12	1.4	1189.1	45	1
		Type6	13	1.0	1536.1	30	0
		Type6	14	1.9	912.4	45	1
		Type6	15	1.3	1251.6	30	1
		Type6	16	2.0	841.0	45	1
		Type6	17	1.0	1474.9	30	1
		Type6	18	1.3	1285.3	30	1
		Type6	19	1.0	1529.1	30	1
	5570	Type1	0	3.0	1550.4	18	1
		Type1	1	0.6	4347.8	18	1
		Type1	2	1.7	2375.3	18	1
		Type1	3	4.7	1058.2	18	1
		Type1	4	3.7	1292.0	18	1
		Type1	5	2.6	1724.1	18	1
		Type1	6	2.9	1574.8	18	1
		Type1	7	2.1	2024.3	18	1
		Type1	8	2.9	1594.9	18	1
		Type1	9	0.7	3984.1	18	1
		Type1	10	3.7	1295.3	18	1
		Type1	11	4.5	1100.1	18	1
		Type1	12	3.0	1560.1	18	1
		Type1	13	1.9	2217.3	18	0
		Type1	14	4.4	1116.1	18	1
		Type1	15	2.7	1669.4	18	1
		Type1	16	5.0	1011.1	18	1
		Type1	17	2.1	2092.1	18	0
		Type1	18	2.6	1730.1	18	1
		Type1	19	1.9	2202.6	18	0
		Type2	0	8.6	1022.5	18	1
		Type2	1	1.0	3952.6	18	1
		Type2	2	4.5	1706.5	18	1
		Type2	3	14.0	665.3	18	1
		Type2	4	10.9	830.6	18	1
		Type2	5	7.4	1157.4	18	0
		Type2	6	8.4	1040.6	18	1
		Type2	7	5.8	1400.6	18	1
		Type2	8	8.2	1054.9	18	1
		Type2	9	1.4	3448.3	18	0
		Type2	10	10.9	833.3	18	1
		Type2	11	13.4	694.4	18	1

	Type2	12	8.5	1028.8	18	1
	Type2	13	5.0	1562.5	18	1
	Type2	14	13.1	705.7	18	1
	Type2	15	7.7	1112.3	18	1
	Type2	16	14.8	632.5	18	1
	Type2	17	5.5	1455.6	18	1
	Type2	18	7.3	1161.4	18	1
	Type2	19	5.1	1550.4	18	1
	Type3	0	8.6	308.2	25	1
	Type3	1	1.0	422.8	25	1
	Type3	2	4.5	361.1	25	1
	Type3	3	14.0	257.6	25	1
	Type3	4	10.9	284.2	25	1
	Type3	5	7.4	321.9	25	1
	Type3	6	8.4	310.2	25	1
	Type3	7	5.8	342.0	25	0
	Type3	8	8.2	311.7	25	1
	Type3	9	1.4	414.9	25	0
	Type3	10	10.9	284.6	25	1
	Type3	11	13.4	262.7	25	1
	Type3	12	8.5	308.8	25	1
	Type3	13	5.0	352.9	25	1
	Type3	14	13.1	264.7	25	1
	Type3	15	7.7	317.6	25	1
	Type3	16	14.8	251.4	25	1
	Type3	17	5.5	345.8	25	1
	Type3	18	7.3	322.3	25	1
	Type3	19	5.1	352.1	25	1
	Type4	0	25.6	321.3	20	0
	Type4	1	20.3	481.7	20	1
	Type4	2	22.7	391.8	20	1
	Type4	3	29.3	259.0	20	0
	Type4	4	27.2	291.3	20	1
	Type4	5	24.7	339.1	20	0
	Type4	6	25.4	323.9	20	1
	Type4	7	23.7	365.8	20	1
	Type4	8	25.3	325.9	20	1
	Type4	9	20.6	469.7	20	1
	Type4	10	27.2	291.7	20	1
	Type4	11	28.9	265.2	20	1
	Type4	12	25.5	322.3	20	1
	Type4	13	23.1	380.5	20	1
	Type4	14	28.7	267.5	20	1
	Type4	15	25.0	333.4	20	0

	Type4	16	29.9	251.7	20	0
	Type4	17	23.5	370.9	20	1
	Type4	18	24.7	339.7	20	0
	Type4	19	23.2	379.4	20	1
	Type5	0	1.4	2809.0	54	1
	Type5	1	0.5	3300.3	36	1
	Type5	2	0.9	3058.1	36	0
	Type5	3	2.0	2544.5	54	1
	Type5	4	1.7	2688.2	54	1
	Type5	5	1.3	2881.8	36	0
	Type5	6	1.4	2824.9	54	1
	Type5	7	1.1	2967.4	36	0
	Type5	8	1.4	2832.9	54	1
	Type5	9	0.6	3268.0	36	0
	Type5	10	1.7	2688.2	54	1
	Type5	11	2.0	2570.7	54	1
	Type5	12	1.4	2816.9	54	1
	Type5	13	1.0	3021.1	36	1
	Type5	14	1.9	2584.0	54	1
	Type5	15	1.3	2857.1	36	0
	Type5	16	2.0	2506.3	54	1
	Type5	17	1.0	2985.1	36	0
	Type5	18	1.3	2881.8	36	1
	Type5	19	1.0	3012.0	36	1
	Type6	0	1.4	1183.4	54	1
	Type6	1	0.5	2325.6	36	1
	Type6	2	0.9	1610.3	36	1
	Type6	3	2.0	873.4	54	1
	Type6	4	1.7	1026.7	54	1
	Type6	5	1.3	1282.1	36	1
	Type6	6	1.4	1197.6	54	1
	Type6	7	1.1	1440.9	36	1
	Type6	8	1.4	1209.2	54	1
	Type6	9	0.6	2217.3	36	0
	Type6	10	1.7	1028.8	54	1
	Type6	11	2.0	901.7	54	1
	Type6	12	1.4	1189.1	54	1
	Type6	13	1.0	1536.1	36	0
	Type6	14	1.9	912.4	54	1
	Type6	15	1.3	1251.6	36	1
	Type6	16	2.0	841.0	54	1
	Type6	17	1.0	1474.9	36	1
	Type6	18	1.3	1285.3	36	0
	Type6	19	1.0	1529.1	36	1

3.8.6.7 Uniform Spreading

The intention of the uniform spreading is to provide, on aggregate, a uniform loading of the spectrum. The UUT using the bands 5250 to 5350MHz and 5470 to 5725 MHz channels so that the probability of selecting a given channel shall be the same for channels. The UUT will select channel by random mode and remember this channel when detect radar signal, so that will select unused channel by random mode.

3.9 Adaptivity (Channel Access Mechanism) (Refer to clause 4.2.7)

3.9.1 Limit

Adaptivity Limit				
Priority Class dependent Channel Access parameters for Supervising Devices:				
Class #	p0	CWmin	CWmax	maximum Channel Occupancy Time (COT)
4	1	3	7	2 ms
3	1	7	15	4 ms
2	3	15	63	6 ms (see note 1 and note 2)
1	7	15	1 023	6 ms (see note 1)
Note1: The maximum Channel Occupancy Time (COT) of 6 ms may be increased to 8 ms by inserting one or more pauses. The minimum duration of a pause shall be 100 μs. The maximum duration (Channel Occupancy) before including any such pause shall be 6 ms. Pause duration is not included in the channel occupancy time. Note 2: The maximum Channel Occupancy Time (COT) of 6 ms may be increased to 10 ms by extending CW to $CW \times 2 + 1$ when selecting the random number q for any backoff (s) that precede the Channel Occupancy that may exceed 6 ms or which follow the Channel Occupancy that exceeded 6 ms. The choice between preceding or following a Channel Occupancy shall remain unchanged during the operation time of the device. Note 3: The values for p₀, CW_{min}, CW_{max} are minimum values. Greater values are allowed.				
Energy Detect Threshold (ED Threshold): Option 1: For equipment that for its operation in the 5 GHz bands is conforming to IEEE 802.11™ac-2013 [10], clause 22, or to IEEE 802.11™-2012, clause 18 or clause 20, or any combination of these clauses, the Energy Detect Threshold (ED Threshold) is independent of the equipment's maximum transmit power (PH). Assuming a 0 dBi receiver antenna the ED Threshold Level (TL) shall be: $TL = -75 \text{ dBm/MHz}$				

Short Control Signalling Transmissions:

Within an observation period of 50 ms, the number of Short Control Signalling Transmissions by the equipment shall be equal to or less than 50.

The total duration of the equipment's Short Control Signalling Transmissions shall be less than 2 500 μ s within said observation period.

Note: Regarding to the test software how to capture the duty cycle within 50ms, we checked with our software supplier and they told us the whole process about this as follow: The measurement timing begins at the end of interference signal (AWGN/LTE/OFDM), e.g. the interference signal end in 10000ms, so the software will conducts the calculation from 10000ms to 10050ms, record the value. Next from 10001~10051ms, calculate the duty cycle and record by the software, repeat this action to calculate the duty cycle in the whole time(e.g. 60s), according to the calculate results to choose the highest duty cycle as the test result. The test result as follow:

3.9.2 Test Peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Record PC	Lenovo	M4000q	N/A
2	Notebook	V14G4AMN	Lenovo	N/A
3	Ipad	Apple	Ipadmini5	N/A

3.9.3 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ● : Test ○ : No Test	

a) The EUT shall connect to a companion device during the test. The signal generator, the spectrum analyser, the EUT, the traffic source and the companion device are connected using a Set-up equivalent to the example given as following although the interference source is switched off at this point in time. The spectrum analyser is used to monitor the transmissions of the EUT in response to the interference signal.

b) The received signal level (wanted signal from the companion device) at the EUT shall be sufficient to maintain a reliable link for the duration of the test. A typical value for the received signal level which can be used in most cases is -50 dBm/MHz.

c) The analyser shall be set as follows:

RBW	8MHz
VBW	8MHz
Detector Mode	RMS
Centre Frequency	Equal to the centre frequency of the operating channel
Span	0 Hz
Sweep time	> 2 × Channel Occupancy Time
Trace Mode	Clear/Write

Trigger	Video
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d) Configure the iperf between the EUT and the companion device so that it exceeds the EUT's theoretical radio performance.

e) The EUT shall be configured to operate on 11ac (20MHz) channel 36 via UI or commands.

f) The interference signal of AWGN is injected on the current Operating Channel of the EUT. The bandwidth of this signal shall be such that it covers the current Operating Channel. The level (at the input of the EUT) of this interference signal shall be equal to the applicable ED Threshold Level (TL) (-75 dBm/MHz) defined in clause 4.2.7.3.2.5.

g) The spectrum analyser shall be used to monitor the transmissions of the EUT on the selected Operating Channel after the interference signal was injected. The analyser shall be set as follows:

Centre Frequency	equal to the centre frequency of the channel being investigated
Frequency Span	0 Hz
RBW	8MHz
VBW	8MHz
Detector Mode	RMS
Sweep Time	$> 2 \times$ the Channel Occupancy Time
Sweep Points	at least one sweep point per μ s
Trace Mode	Clear/Write
Trigger	Video
Detector	RMS

h) Save the trace data to a file for further analysis by a computing device using an appropriate software application or program.

i) Identify the data points related to the channel being investigated by applying a threshold. Count the number of consecutive data points identified as resulting from a single transmission on the channel being investigated and multiply this number by the time difference between two consecutive data points. Repeat this for all the transmissions within the measurement window. For measuring idle or silent periods, count the number of consecutive data points identified as resulting from a single transmitter off period on the channel being investigated and multiply this number by the time difference between two consecutive data points. Repeat this for all the transmitter off periods within the measurement window.

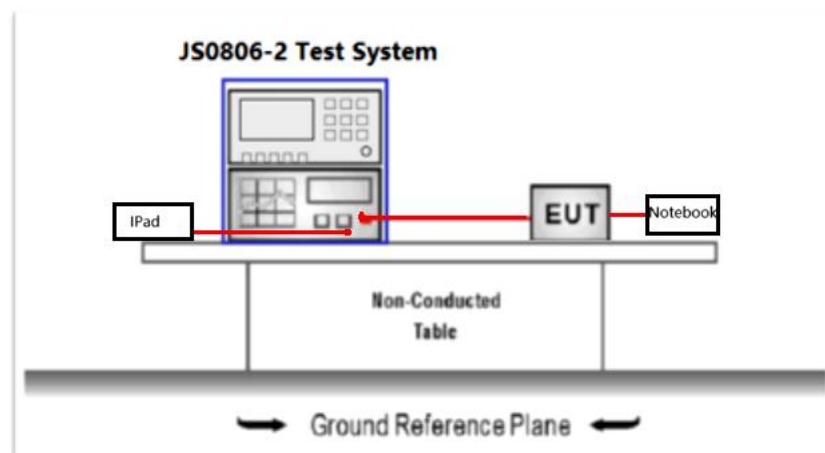
j) Using the step g to step i, it shall be verified that:

i. The EUT stops transmissions on any of the Operating Channels configured in step e and on which the interference signal was inserted. The EUT is assumed to stop transmissions on any of the Operating Channels used for the multi-channel operation (see step e) during this test, and on which the interference signal was inserted, within a period equal to the maximum Channel Occupancy Time that corresponds to the Priority Class being tested (see table 7). The EUT is allowed to have Short Control Signalling Transmissions on any of the Operating Channels configured in step e, see also ii) and iii) below.

ii. Apart from Short Control Signalling Transmissions there shall be no subsequent transmissions of the EUT on the Operating Channels while the interfering signal is present in those channels.

- iii. The Short Control Signalling Transmissions shall comply with the limits defined in clause 4.2.7.3.3. The verification of the Short Control Signalling Transmissions may require the analyser settings to be changed (e.g. sweep time).
- k) To verify that the EUT is not resuming normal transmissions in an Operating Channel as long as the interference signal is present in that channel, the monitoring time may need to be 60 s or more, in which case a segmented measurement may need to be performed in order to achieve the required resolution.
- l) Once the test is completed and the interference signal is removed, the EUT may start transmissions again on any of the Operating Channels used for the multi-channel operation configured in step e; however, this is not a requirement and, therefore, does not require testing. Record all the test results above.
- m) Change the interference signal to LTE/OFDM, repeat step f to step l, record all the test results.
- n) The EUT shall be configured to operate on 11ac (40MHz) channel 38 via UI or commands.
- o) Repeat step f to step l, record all the test results.
- p) According to the BCM's declaration, DGA0120 support class 1/2/3/4 and compliance with the requirements contained in clause 4.2.7.3.2.6 and clause 4.2.7.3.2.7, see clause 5.4.1, item r).

3.9.4 Test Configuration



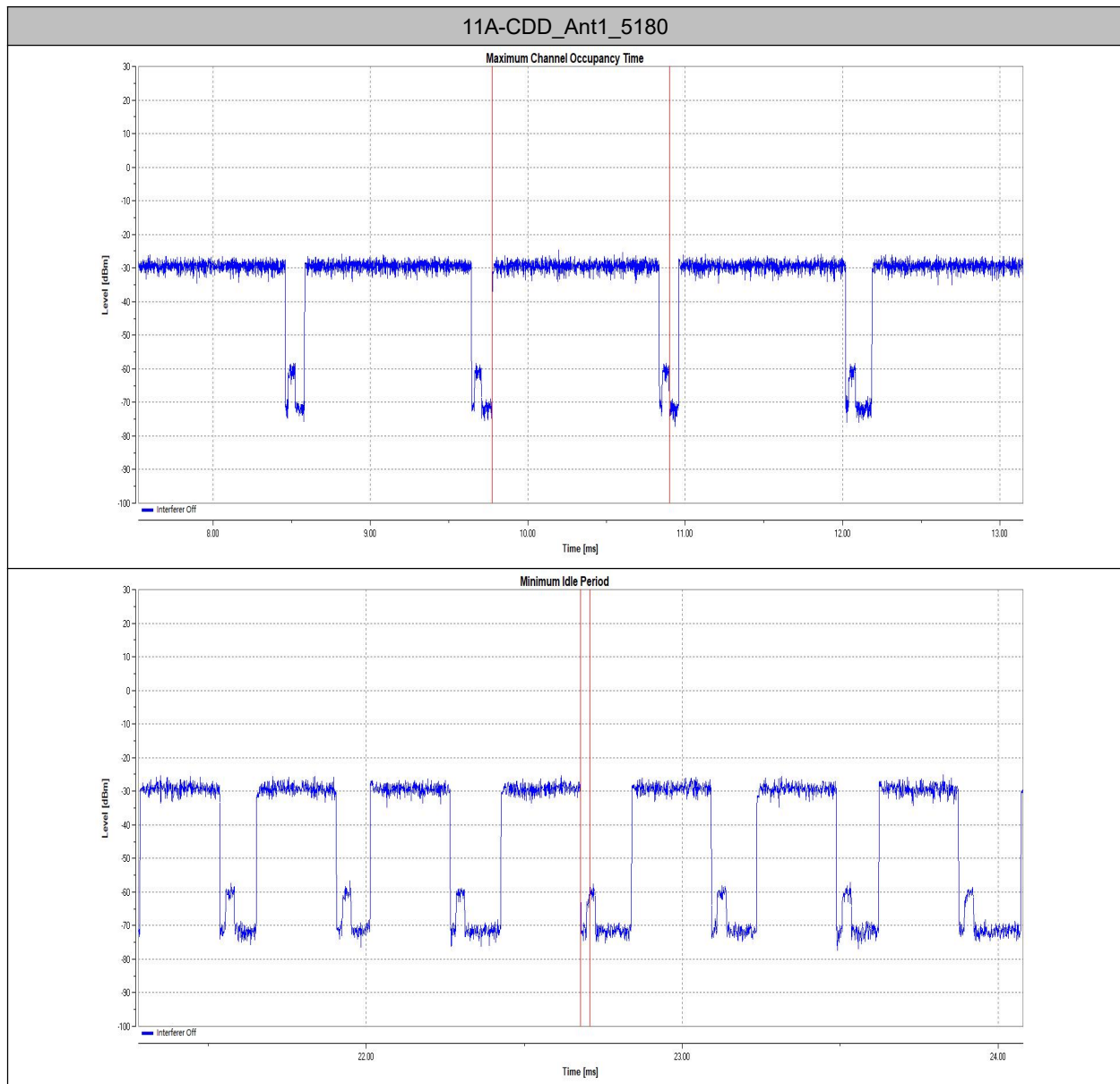
3.9.5 Test Result of Adaptivity

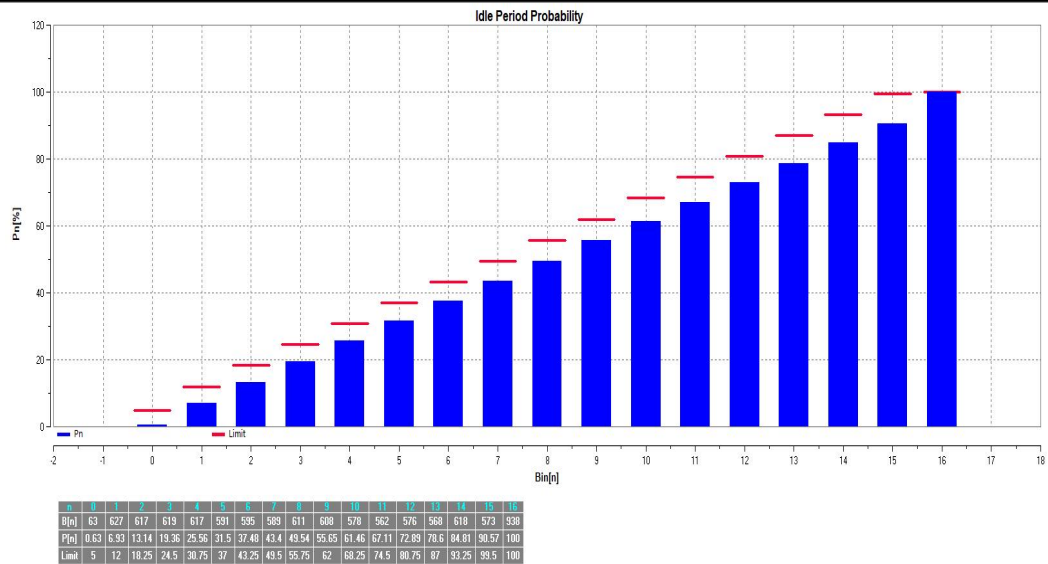
3.9.5.1 Test Result

TestMode	Antenna	Freq(MHz)	Priority Class	COT Num [n]	Max. COT [ms]	Limit [ms]	Min.Idle Time[ms]	Limit [ms]	Idle Period probability	Verdict
11A-CDD	Ant1	5180	2	10031	1.124	6.000	0.028	0.027	See the graph	PASS
11AX20MIMO	Ant1	5180	2	10014	0.763	6.000	0.029	0.027	See the graph	PASS
11AX40MIMO	Ant1	5190	2	10017	0.531	6.000	0.028	0.027	See the graph	PASS

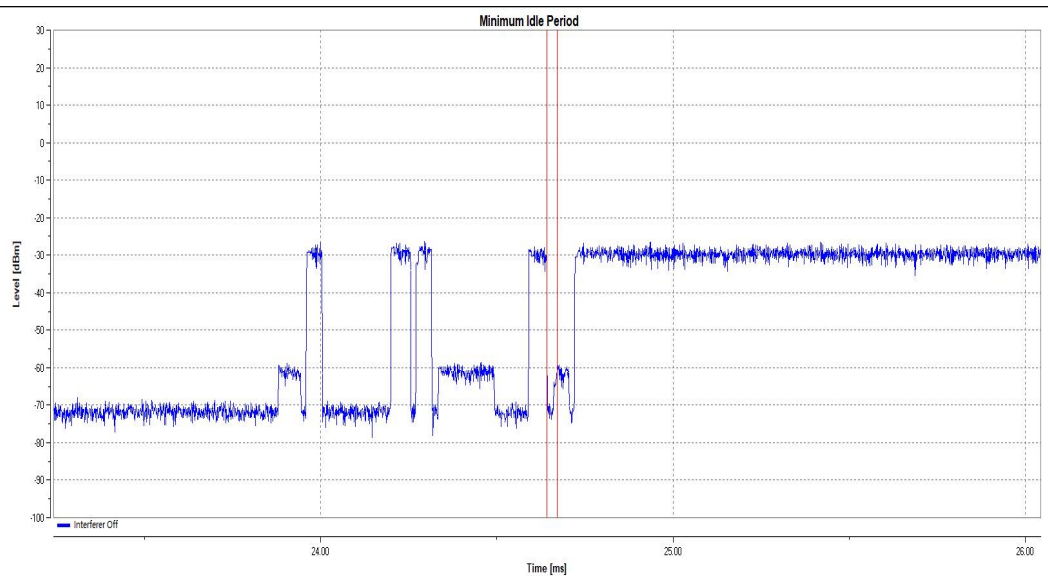
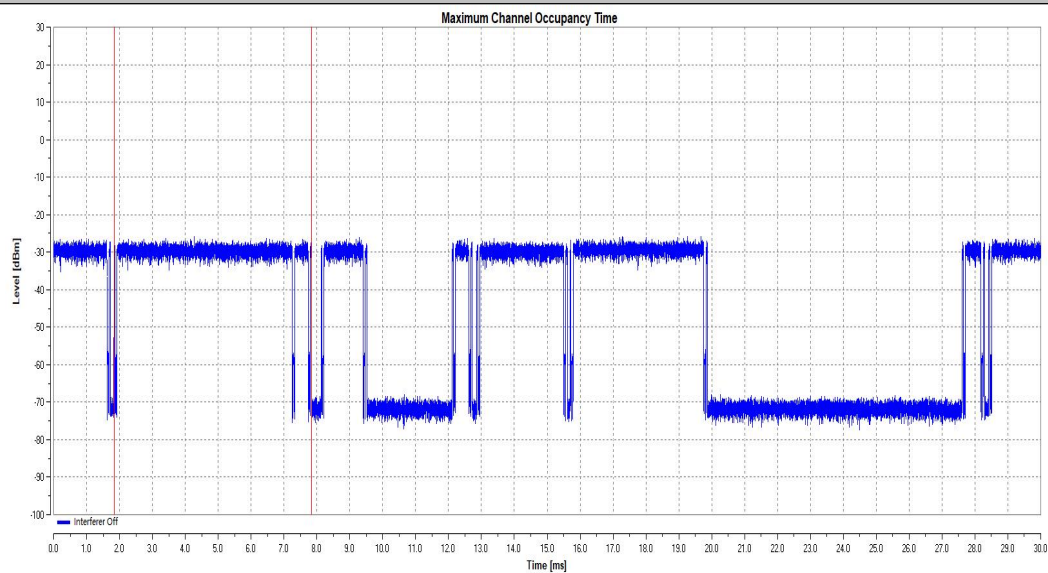
TestMode	Antenna	Freq(MHz)	Interference Type	Add interference Time [ms]	Interference Level [dBm/MHz]	Max. Short Control number [n]	Limit [n]	Max. Short Control Time [ms]	Limit [ms]	Verdict
11A-CDD	Ant1	5180	AWGN	3000	-75.00	3	50	0.70	2.5	PASS
			OFDM	3000	-75.00	2	50	0.70	2.5	PASS
			LTE	3000	-75.00	3	50	0.60	2.5	PASS
11AX20MIMO	Ant1	5180	AWGN	3000	-75.00	3	50	0.70	2.5	PASS
			OFDM	3000	-75.00	3	50	0.60	2.5	PASS
			LTE	3000	-75.00	2	50	0.40	2.5	PASS
11AX40MIMO	Ant1	5190	AWGN	3000	-75.00	3	50	0.90	2.5	PASS

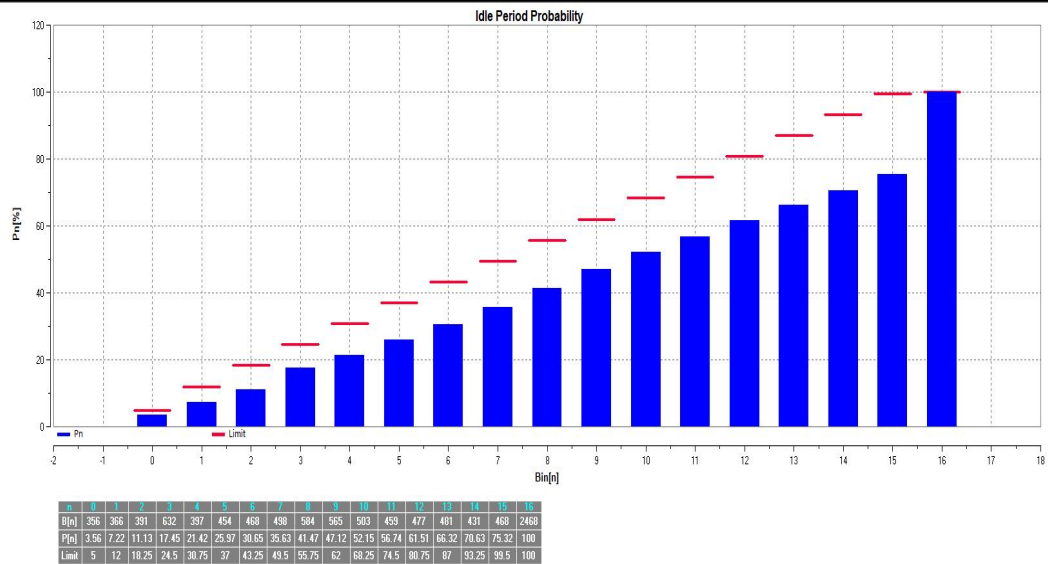
3.9.5.2 Test Graphs



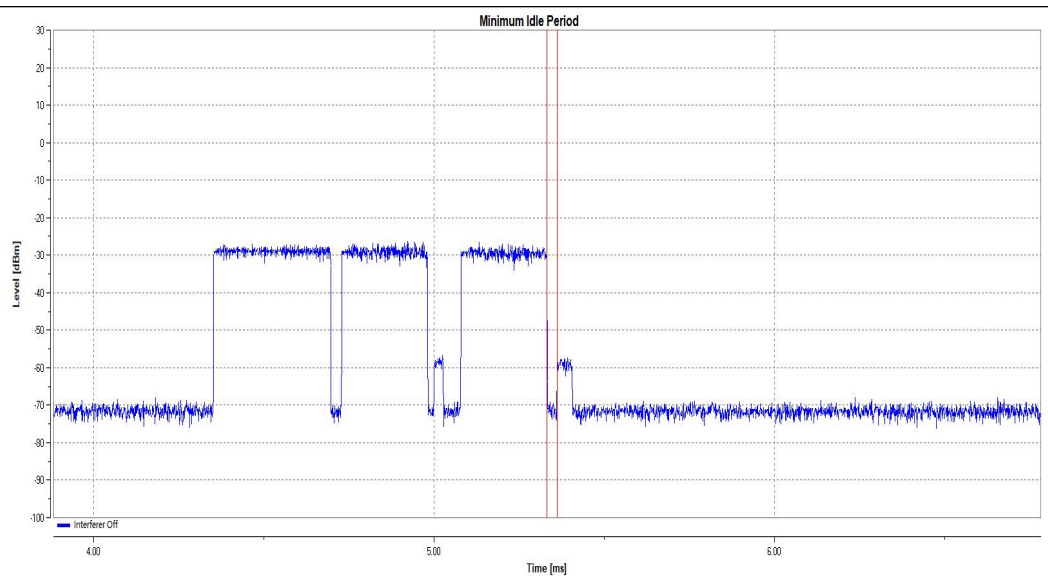
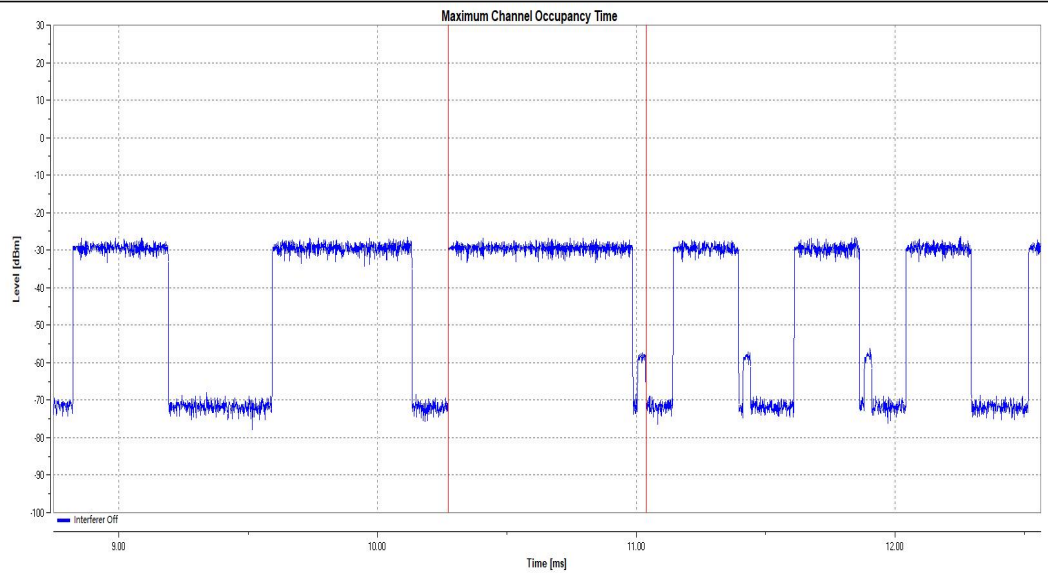


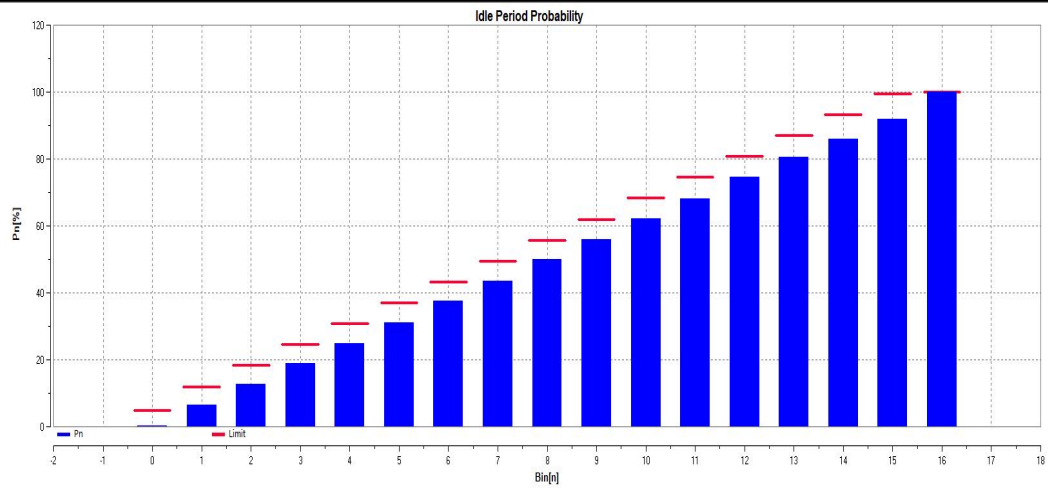
11AC20MIMO_Ant1_5180



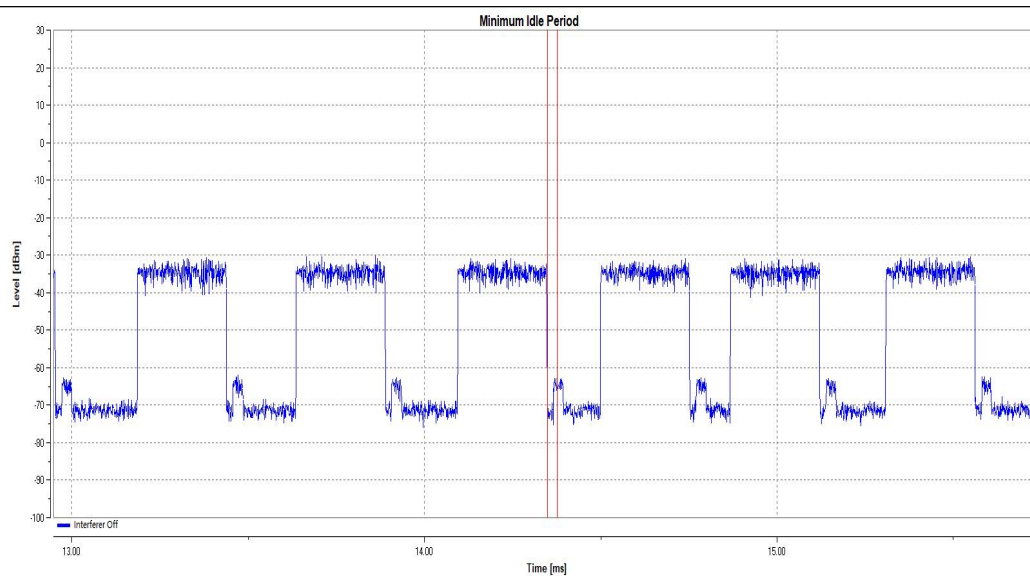
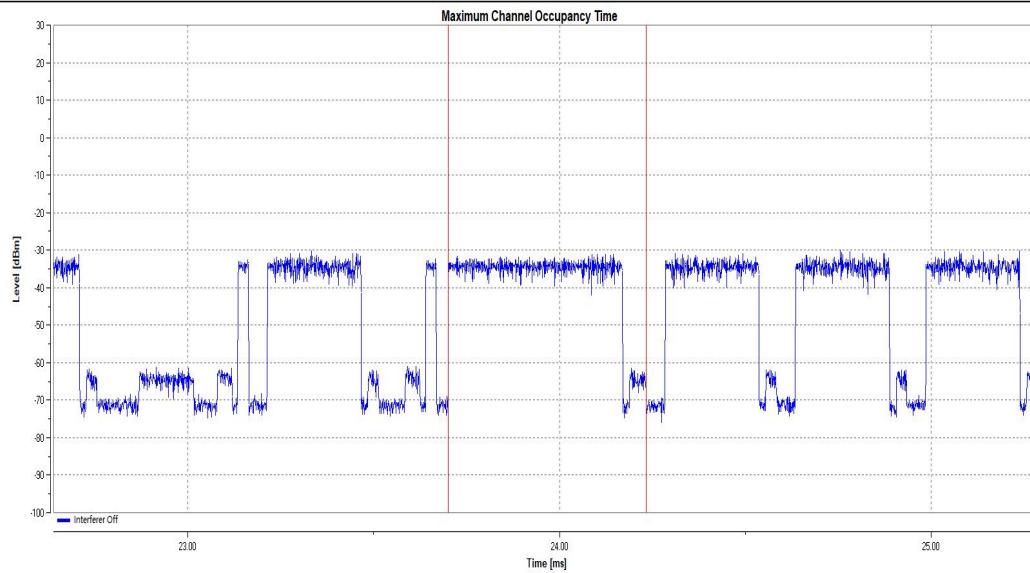


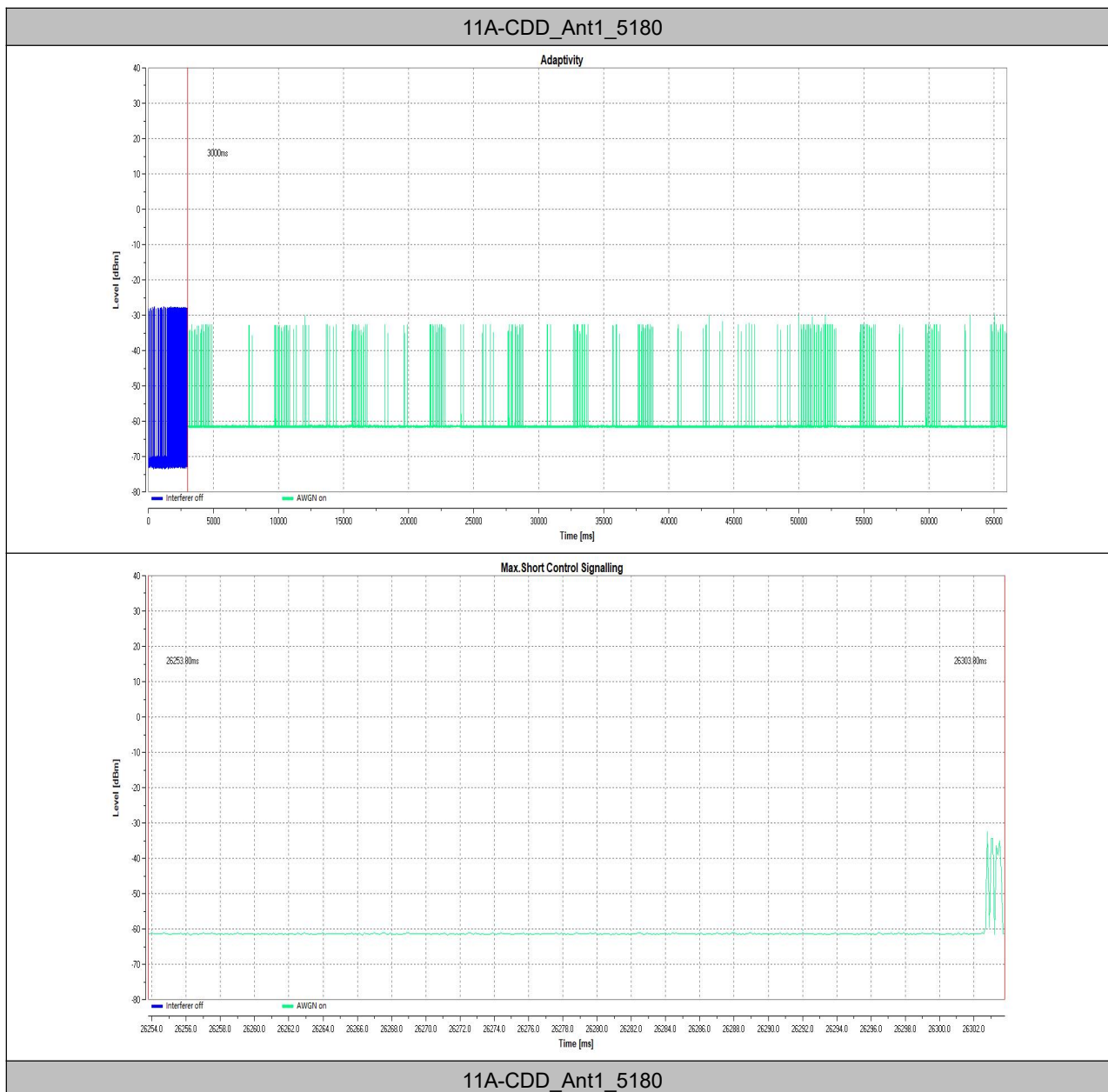
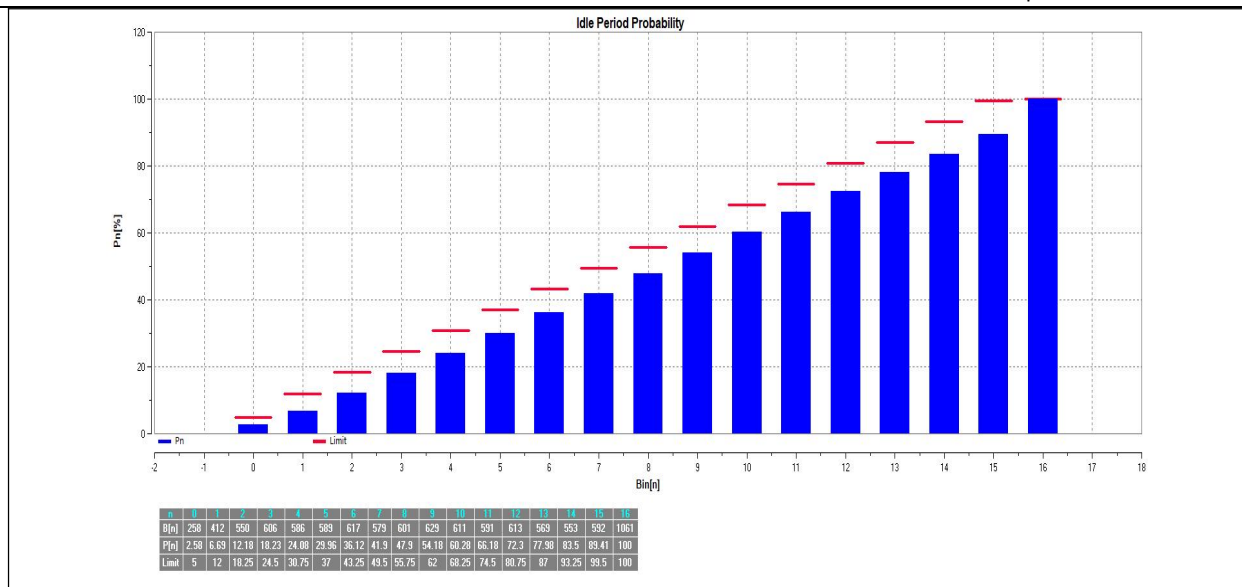
11AX20MIMO_Ant1_5180

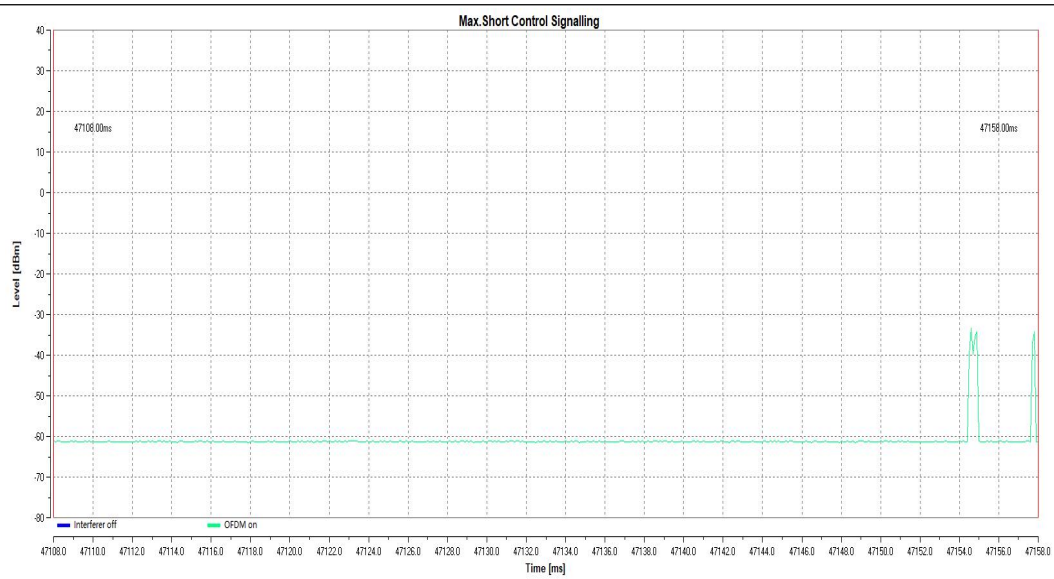
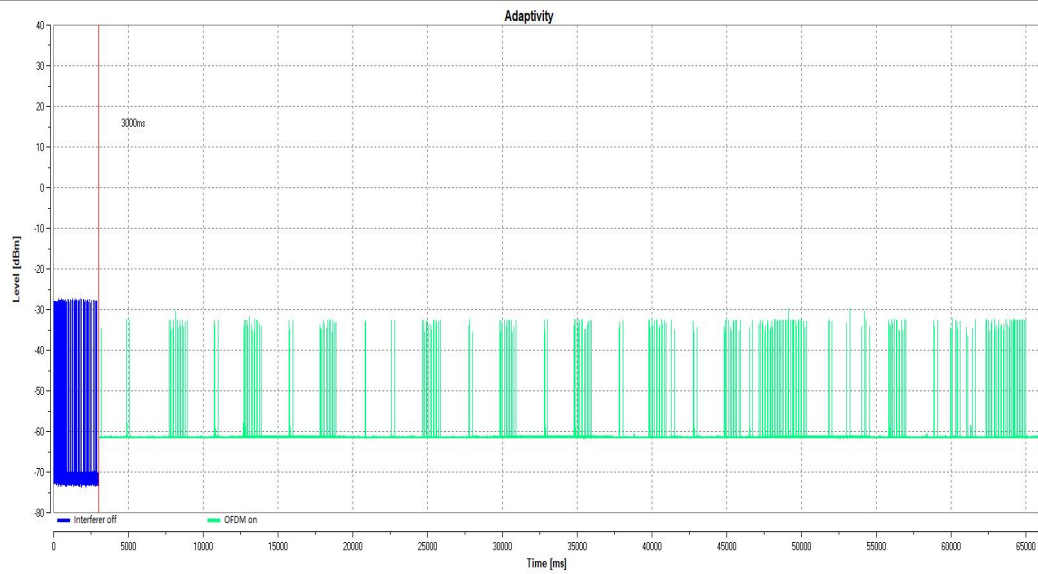




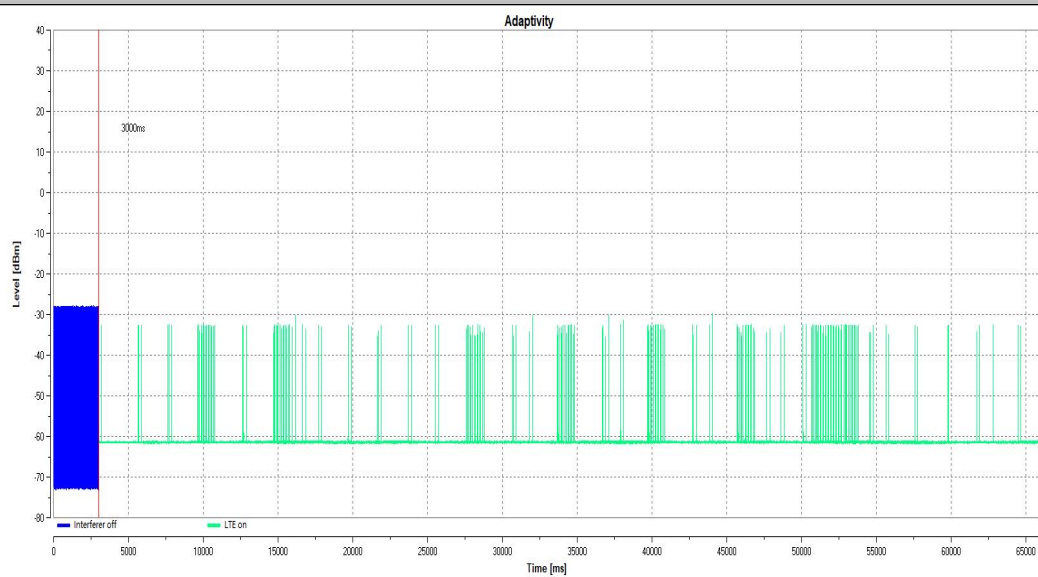
11AX40MIMO_Ant1_5190

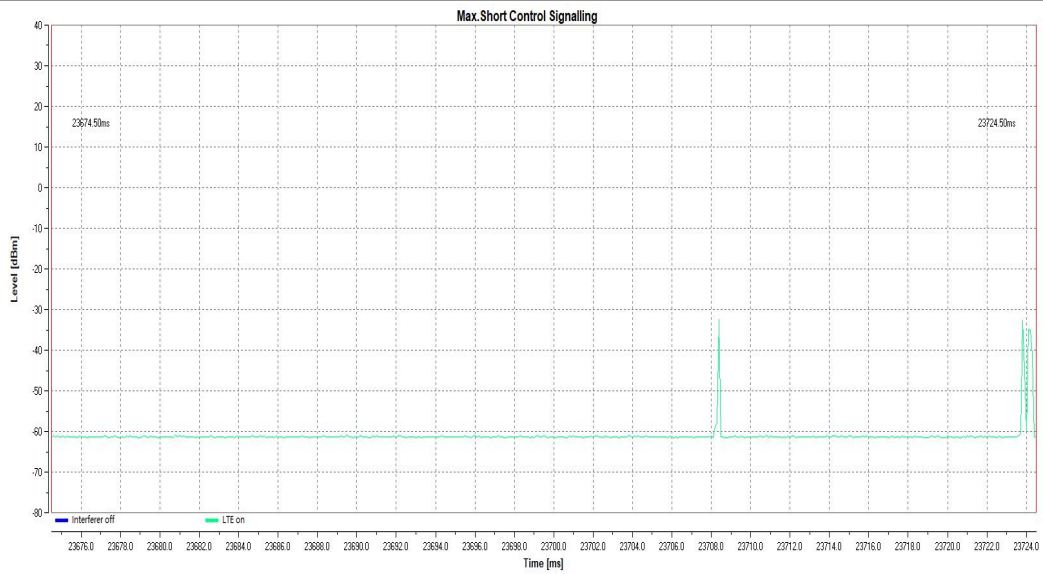




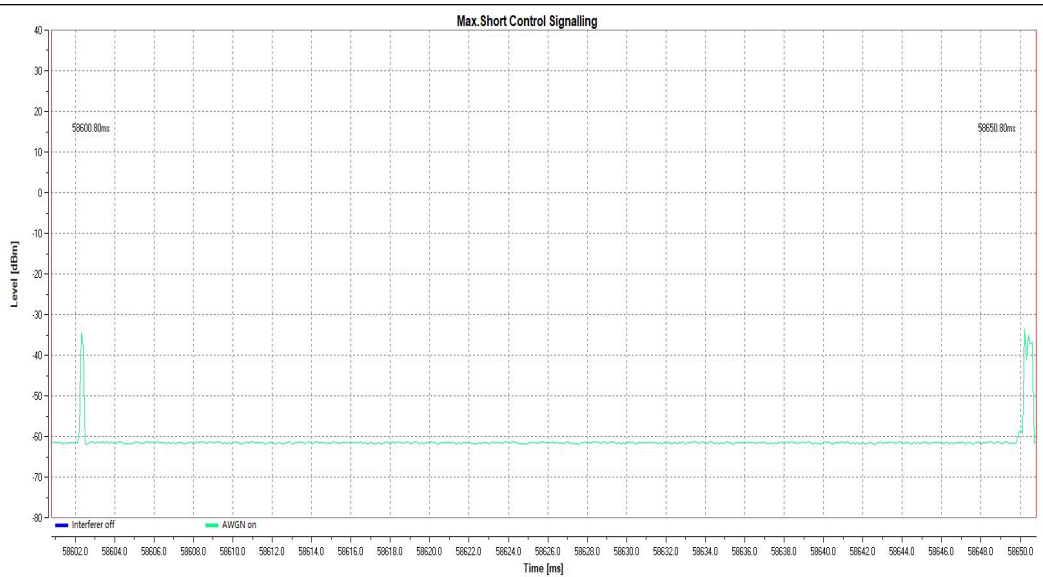
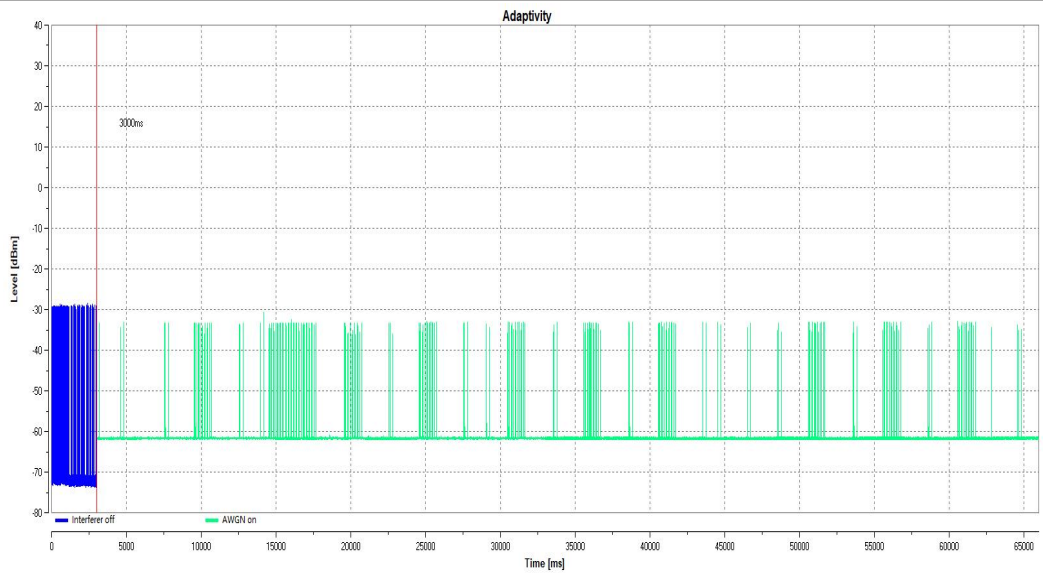


11A-CDD_Ant1_5180

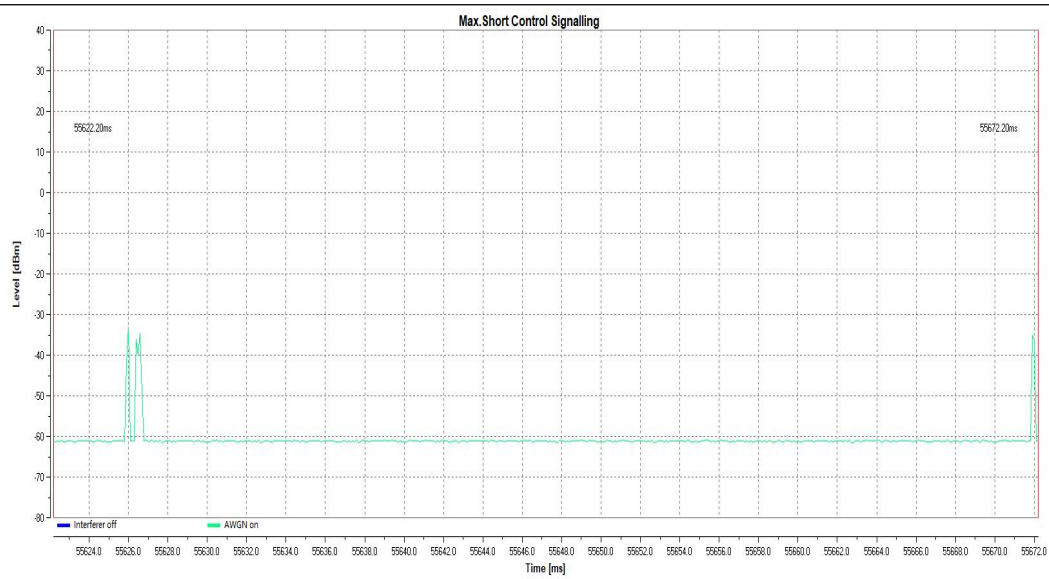
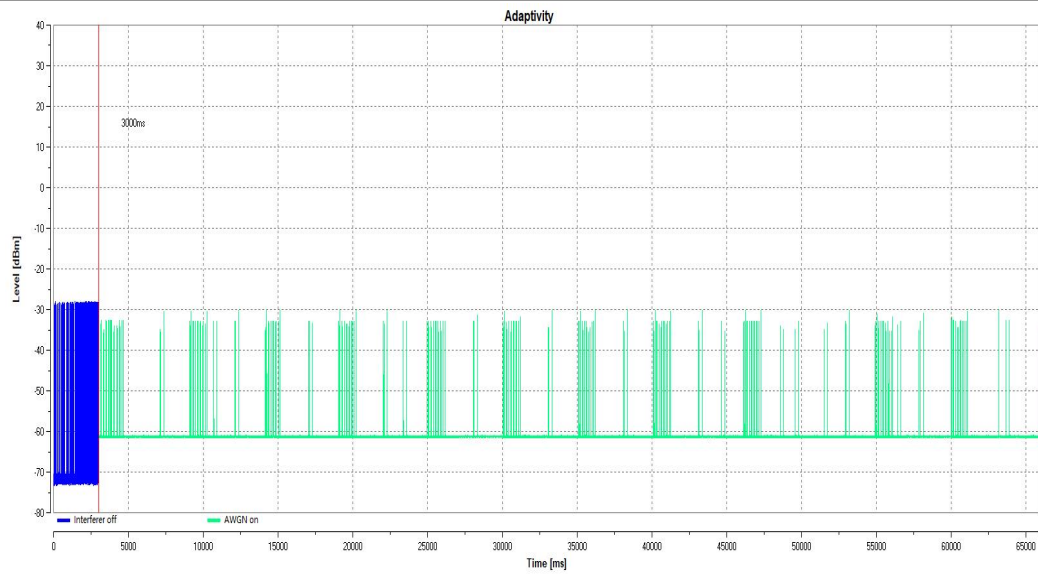




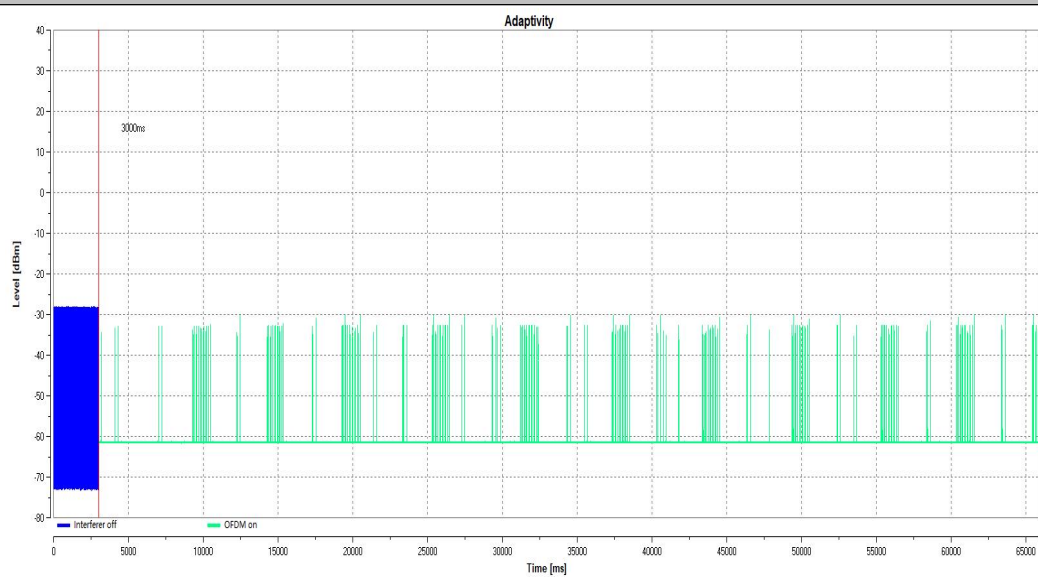
11AC20MIMO_Ant1_5180

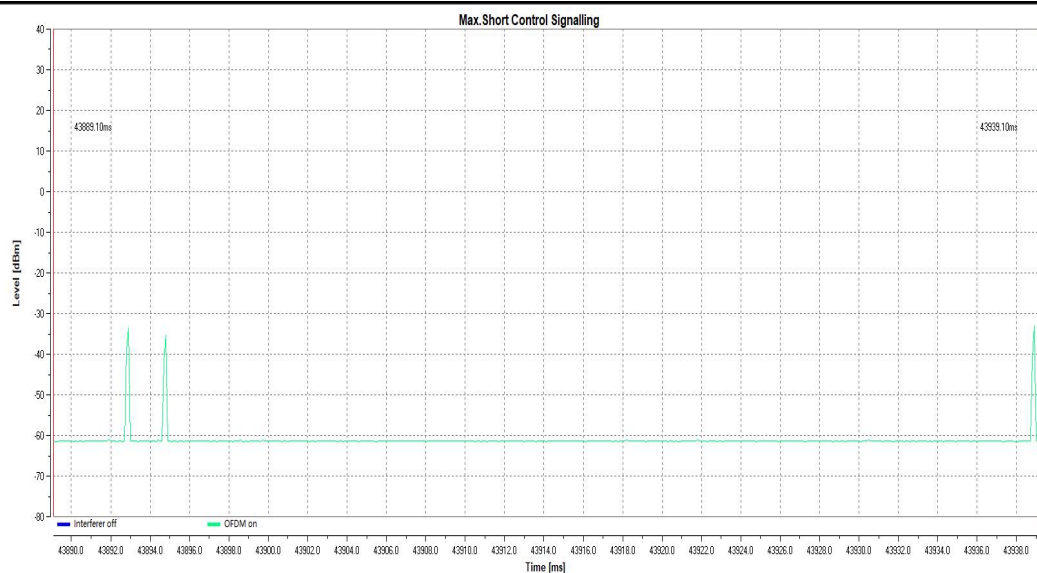


11AX20MIMO_Ant1_5180

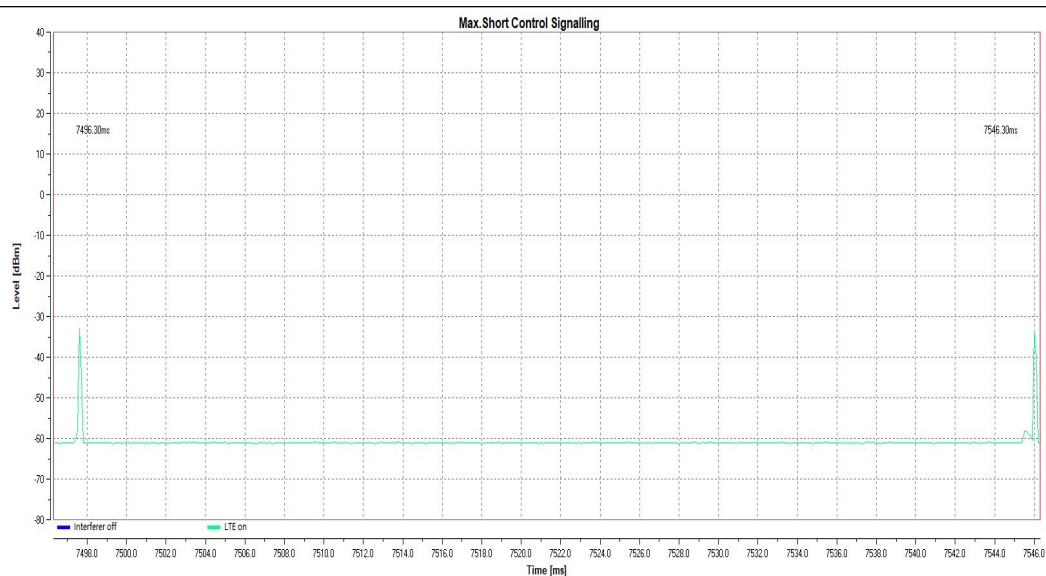
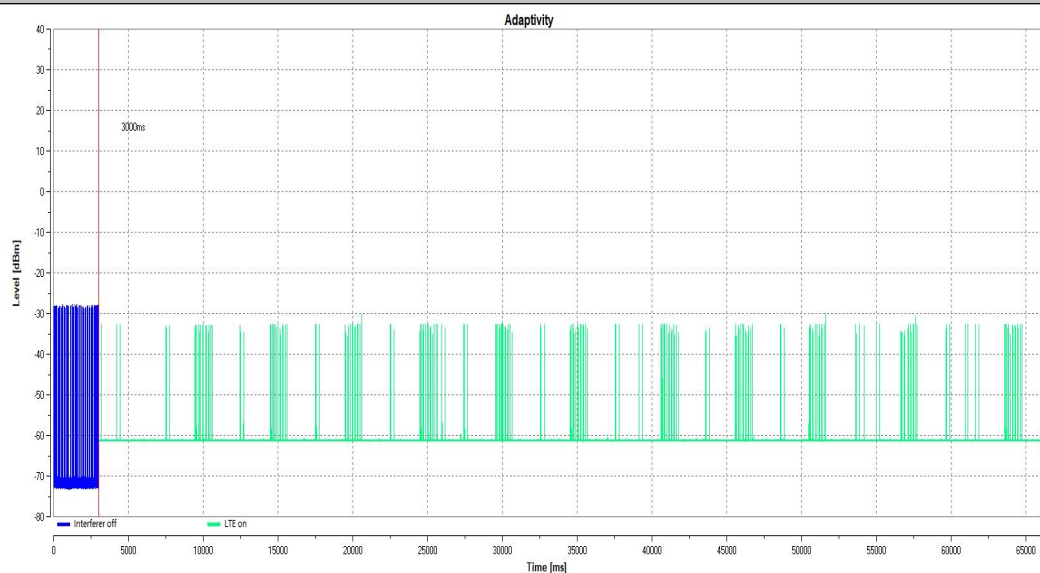


11AX20MIMO_Ant1_5180

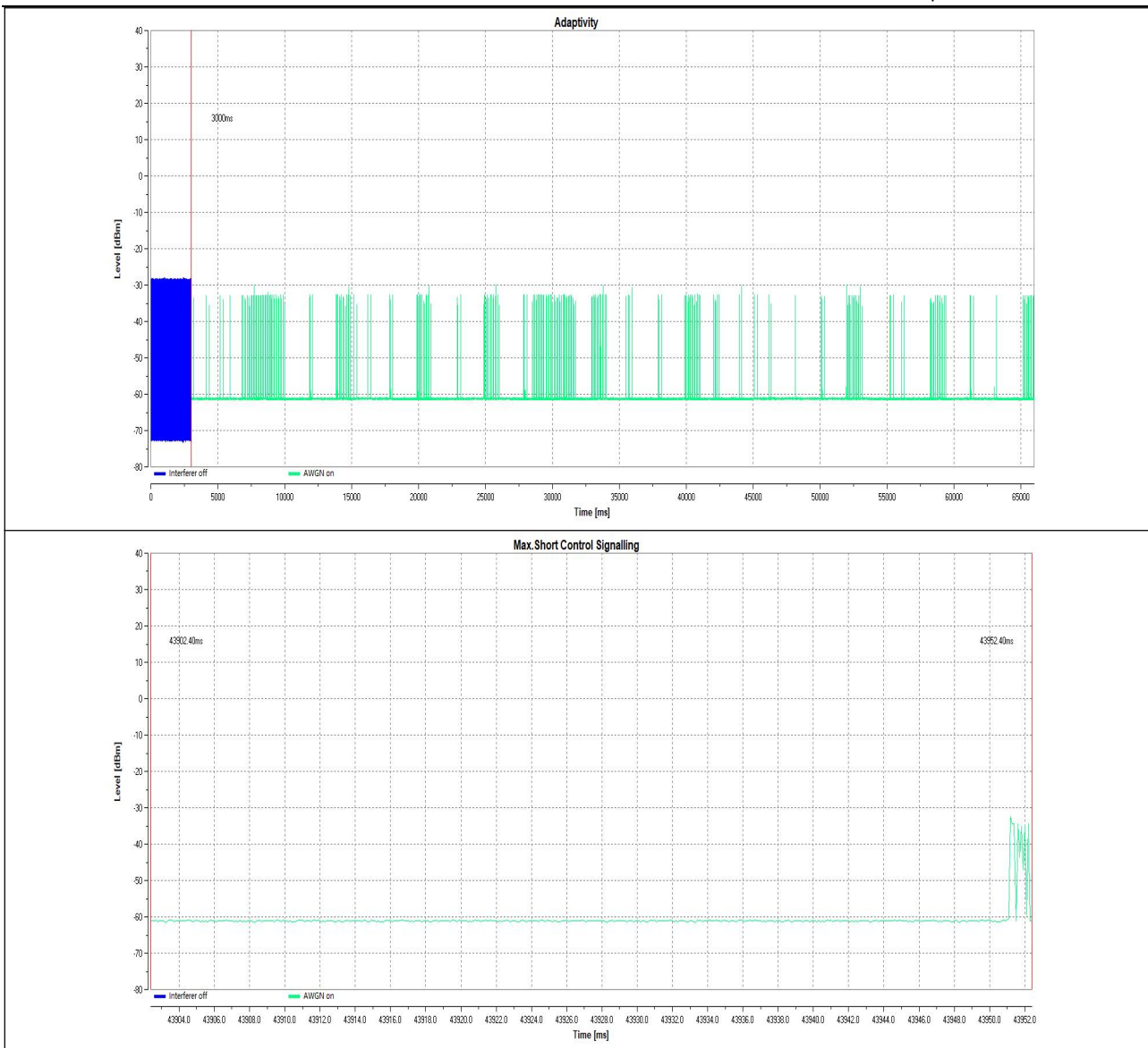




11AX20MIMO_Ant1_5180



11AX40MIMO_Ant1_5190



3.10 Receiver Blocking (Refer to clause 4.2.8)

3.10.1 Limit

Receiver Blocking Limit				
Performance Criteria: The minimum performance criterion shall be a PER less than or equal to 10%.				
Receiver Blocking Parameters				
Wanted signal mean power from companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note2)		Type of blocking signal
		Master or Slave with radar detection	Slave without radar detection	
P _{min} + 6 dB	5 100	-53	-59	CW
P _{min} + 6 dB	4 900	-47	-53	CW
	5 000			
	5 975			
Note 1: P _{min} is the minimum level of the wanted signal (in dBm) required to meet the minimum performance criteria as defined clause 4.2.8.3 in the absence of any blocking signal.				
Note 2: The levels specified are levels in front of the EUT antenna. In case of conducted measurements, the same levels should be used at the antenna connector irrespective of antenna gain.				

3.10.2 Test Peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Record PC	Lenovo	M4000q	N/A

3.10.3 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ● : Test ○ : No Test	

a) The EUT shall be set to 11a with the lowest rate (6Mbps) and one channel out of the declared channels for this sub-band.

b) The blocking signal generator is set to the first frequency as defined in table 9.

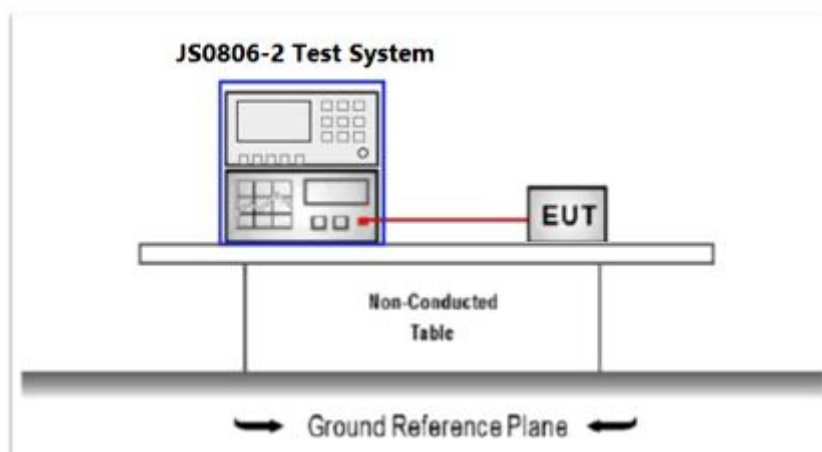
Table 9.				
Receiver Blocking Parameters				
Wanted signal mean power from companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note2)		Type of blocking signal
		Master or Slave with radar detection	Slave without radar detection	
$P_{\min} + 6 \text{ dB}$	5 100	-53	-59	CW
$P_{\min} + 6 \text{ dB}$	4 900	-47	-53	CW
	5 000			
	5 975			

Note 1: $P_{\min}$ is the minimum level of the wanted signal (in dBm) required to meet the minimum performance criteria as defined clause 4.2.8.3 in the absence of any blocking signal.

Note 2: The levels specified are levels in front of the EUT antenna. In case of conducted measurements, the same levels should be used at the antenna connector irrespective of antenna gain.

- c) With the blocking signal generator switched off a communication link is set up between the EUT and the companion device using the test setup as following. The attenuation of the variable attenuator shall be increased in 1 dB steps to a value at which the minimum performance criteria 10% is still met. The resulting level for the wanted signal at the input of the EUT is $P_{\min}$.
- d) This signal level ($P_{\min}$) is increased by 6 dB resulting in a new level ($P_{\min} + 6 \text{ dB}$) (-110.5) dBm of the wanted signal at the EUT receiver input.
- e) The level of the blocking signal at the EUT input is set to the level provided in above table of test report .It shall be verified and recorded in the test report that the performance criteria 10% are met.
- f) If the performance criteria are met, the level of the blocking signal at the EUT must be further increased (e.g. in steps of 1 dB) until the level whereby the performance criteria as specified in limit are no longer met. The highest level at which the performance criteria are met is recorded in the test report.
- g) Repeat step f for each remaining combination of frequency and level as specified in above table 9.
- h) Repeat step b to step g with the EUT operating at the other operating frequencies at which the blocking test has to be performed.

3.10.4 Test Configuration

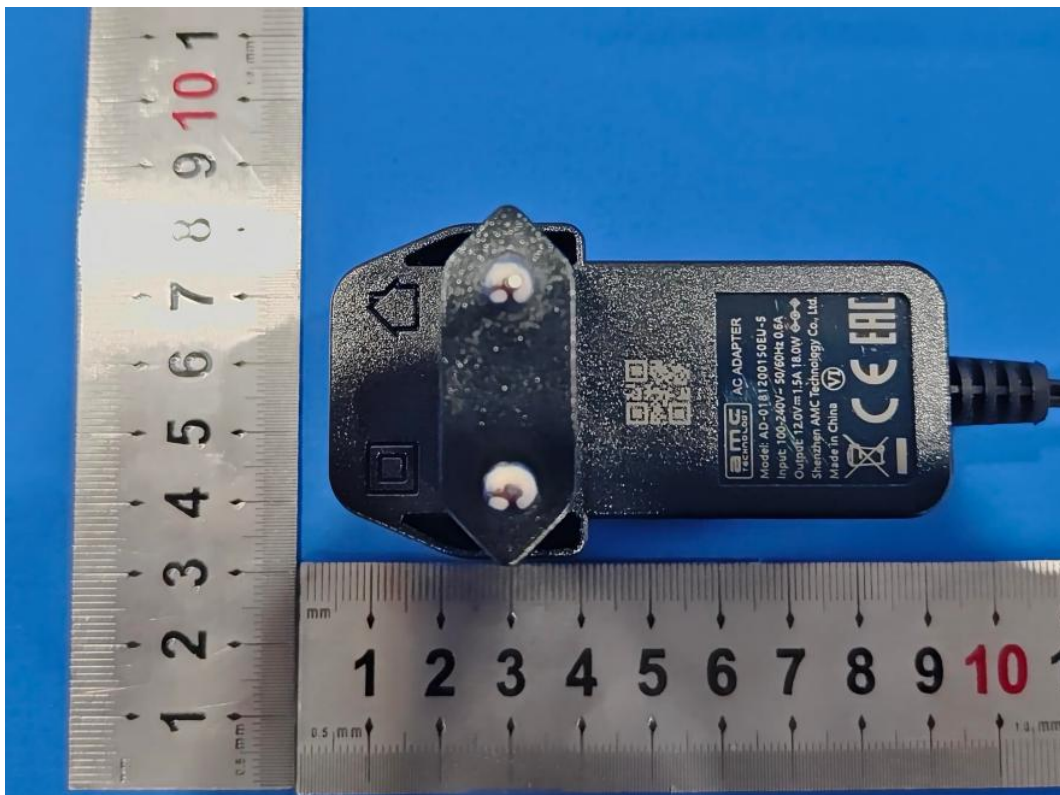


3.10.5 Test Result of Receiver Blocking

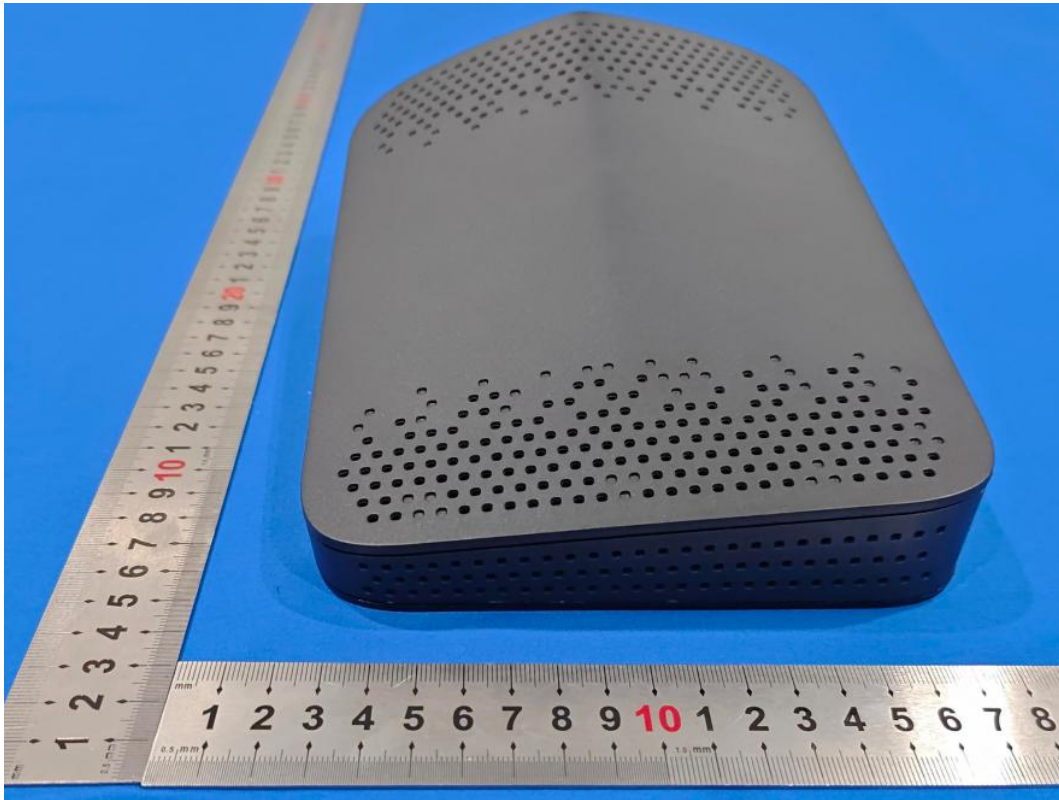
3.10.5.1 Test Result

Test Mode	Antenna	Freq(MHz)	Pmin [dBm]	Wanted signal [dBm]	Freq. [MHz]	CW [dBm]	PER [%]	Limit [%]	Verdict
11A	Ant1	5180	-92	-86	4900	-47	3.10	≤10	PASS
			-92	-86	5000	-47	2.50	≤10	PASS
			-92	-86	5100	-53	3.10	≤10	PASS
			-92	-86	5975	-47	0.00	≤10	PASS
		5500	-91	-85	4900	-47	0.00	≤10	PASS
			-91	-85	5000	-47	2.70	≤10	PASS
			-91	-85	5100	-53	3.20	≤10	PASS
			-91	-85	5975	-47	3.10	≤10	PASS

4. Photographs of EUT

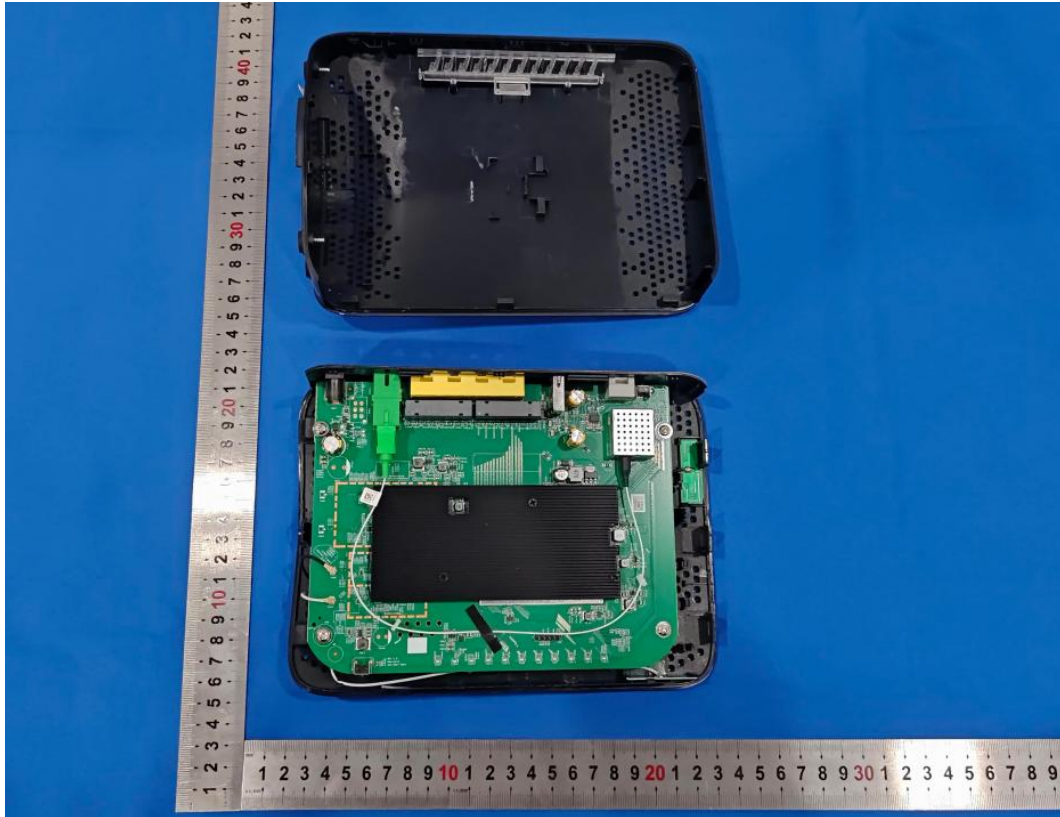


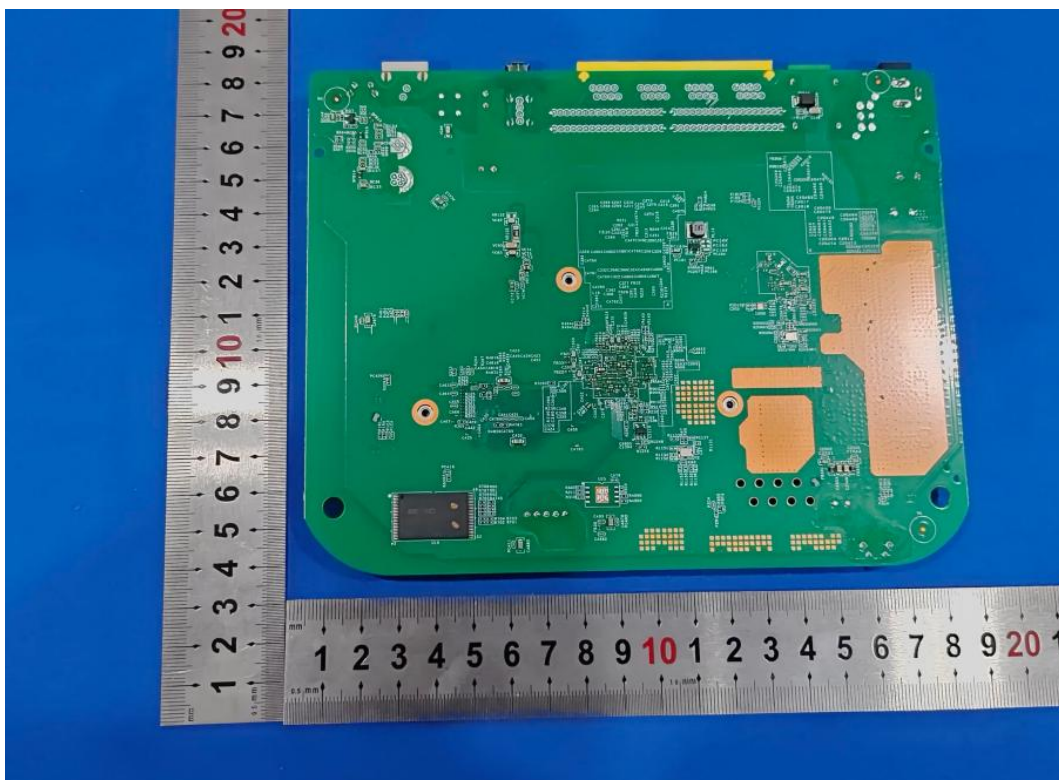
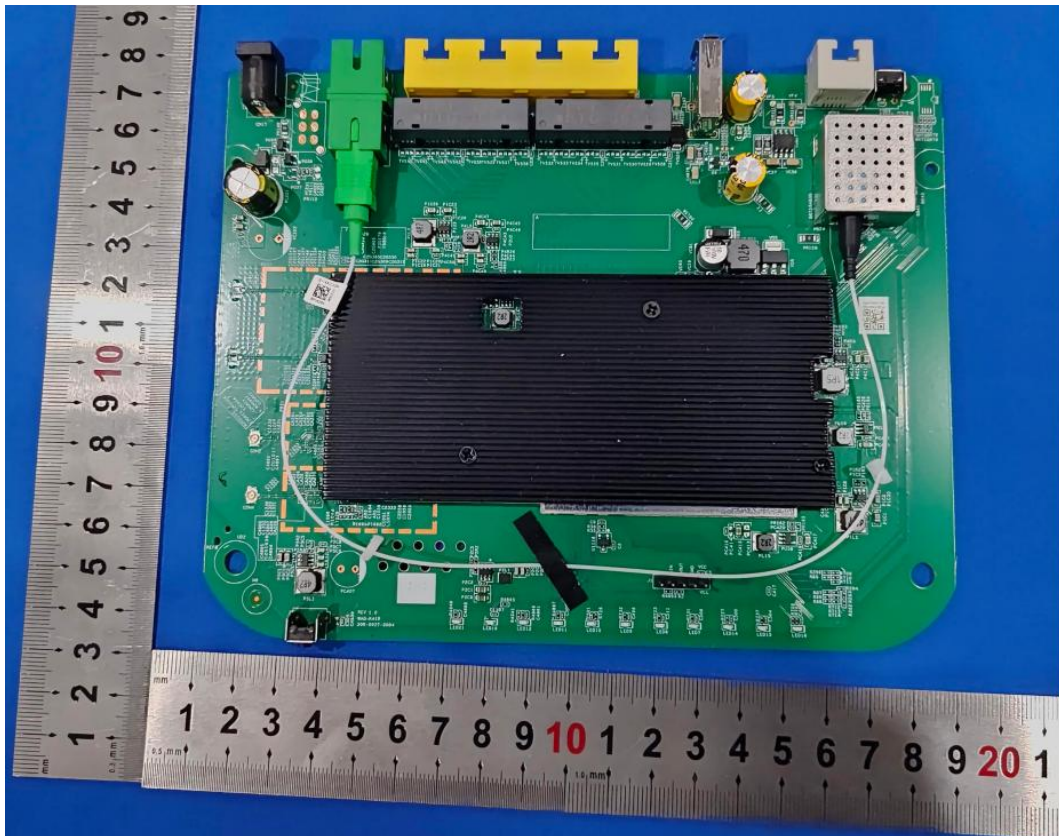


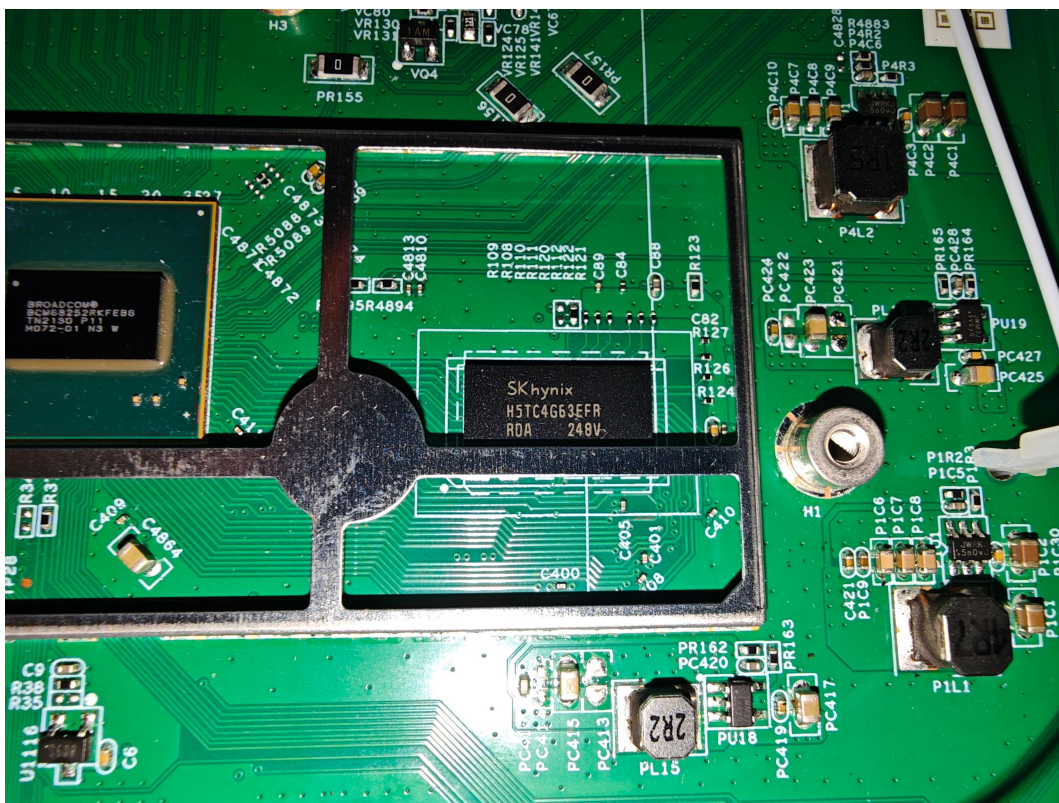


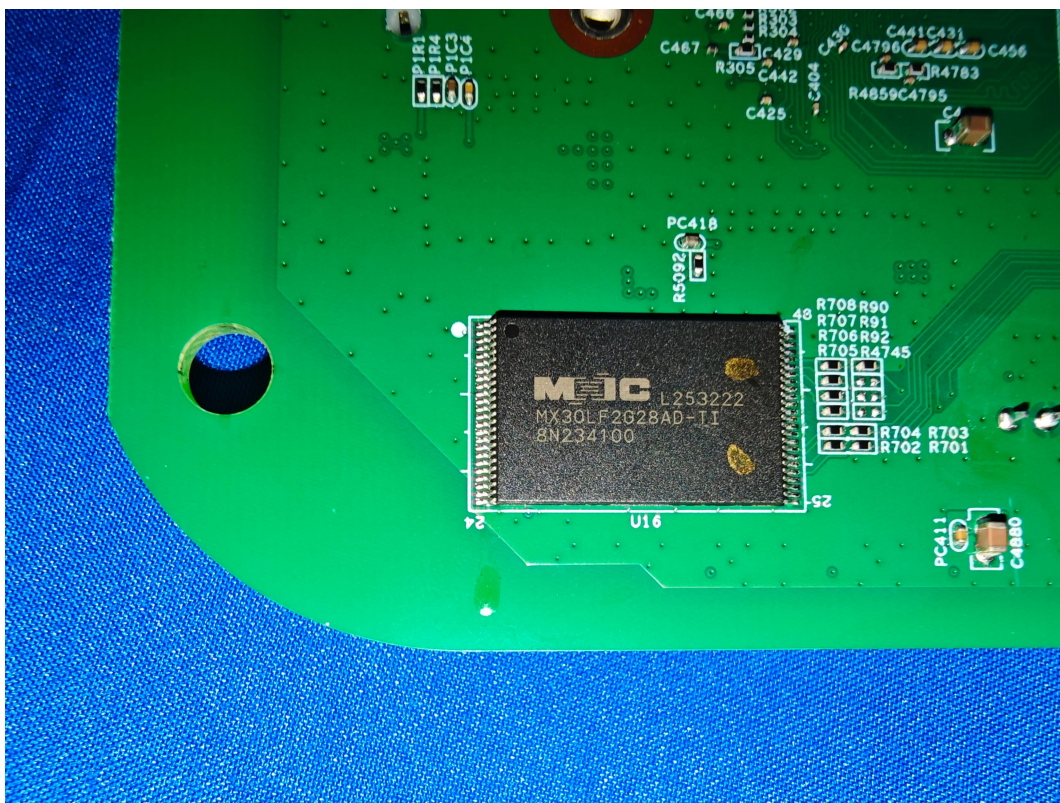
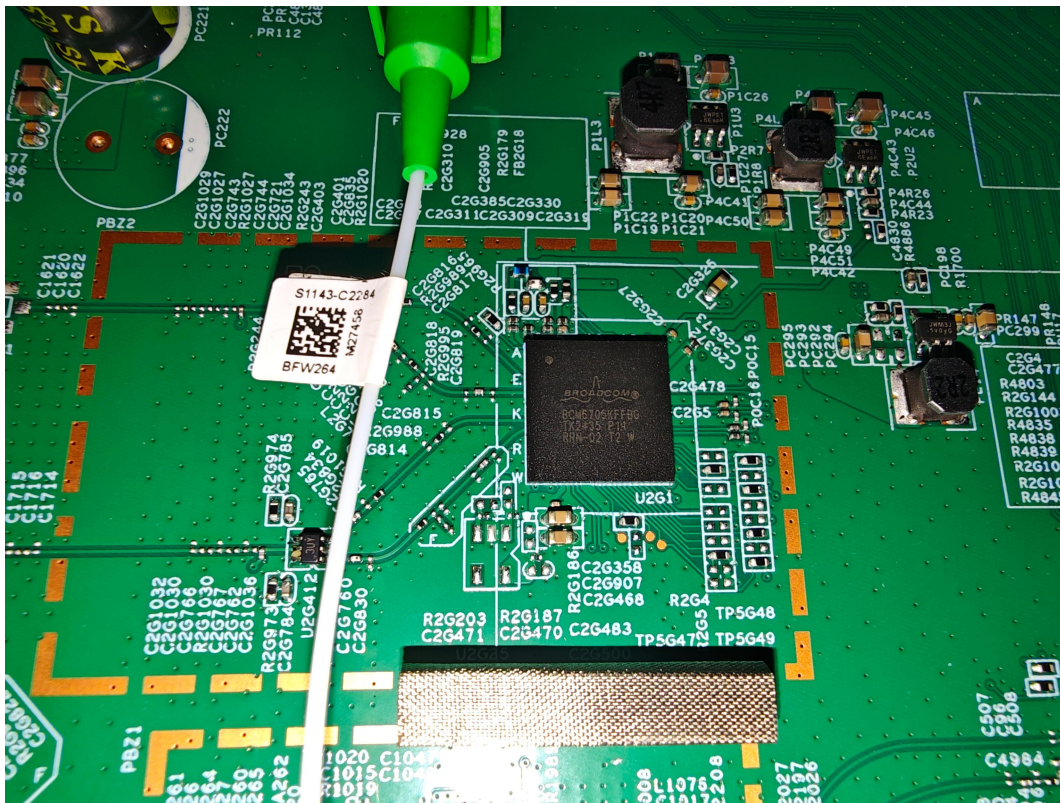


5. Photographs of PCB



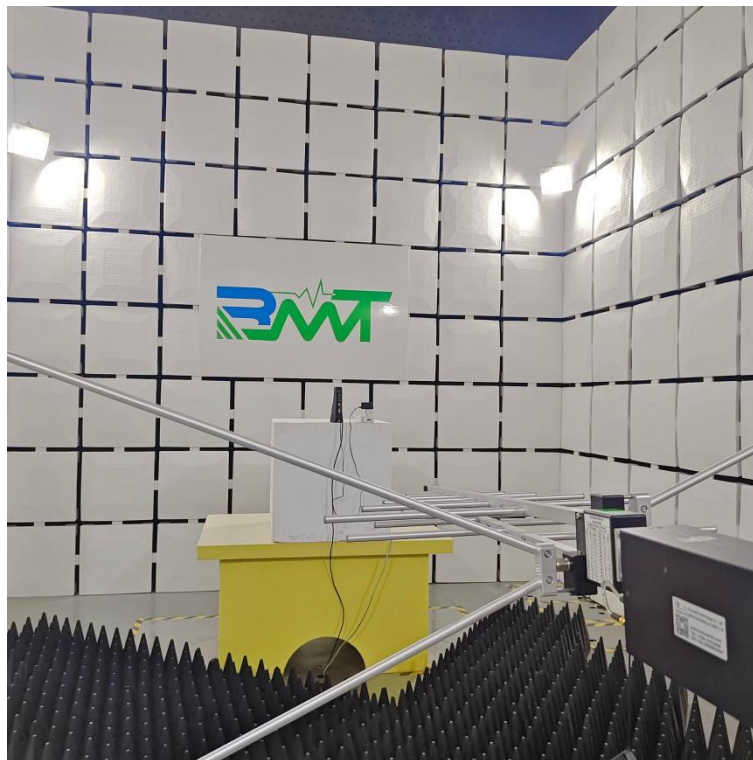
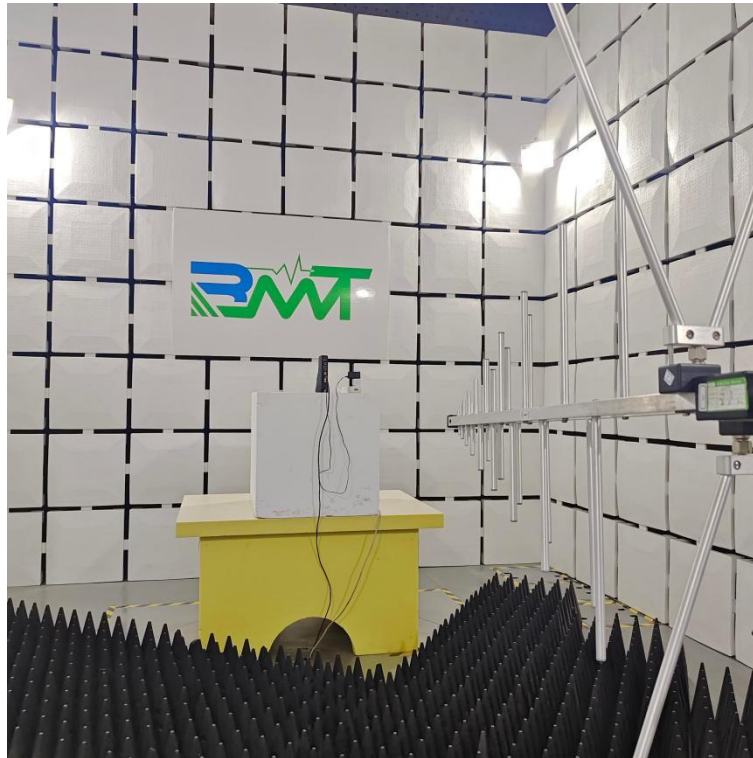




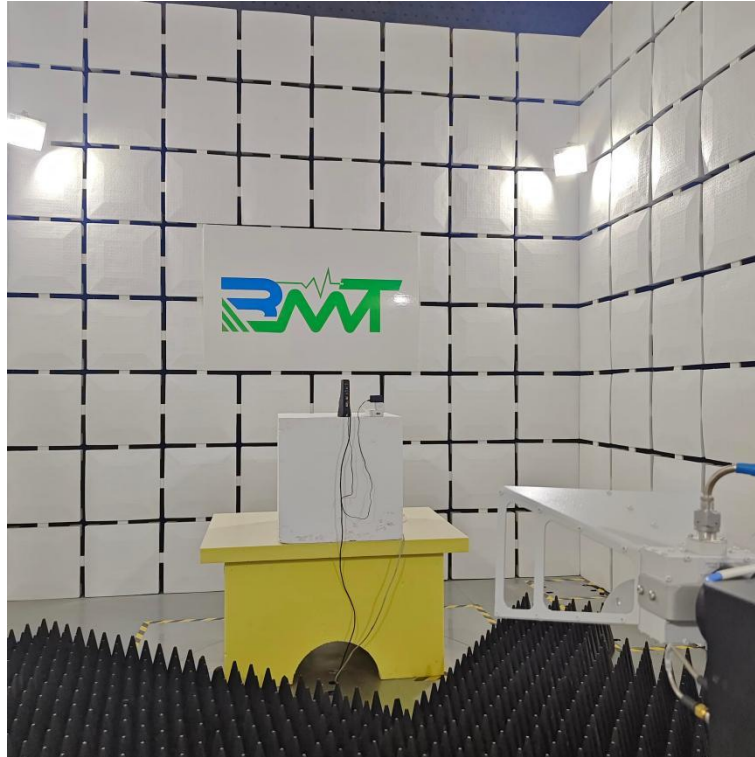


6. Photographs of Radiated Test Set-up

Below 1GHz



Above 1GHz



Statement

1. The report is invalid without the official seal or special seal of WU HAN BAO MU TESTING CO., LTD..
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

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Fax: 86-027-81526599

E-mail: qm@bmlaber.com

**** End of report ****