



CE RADIO TEST REPORT

Equipment : Chromebox OPS
Brand Name : ViewSonic
Model Name : VS20584, VPC13-C33-G1, VPC15-C53-G1, VPCXX-CXX-G1(X can be 0 to 9 or A to Z or blank denoting buyer request)
Applicant : ViewSonic Corporation
381 Brea Canyon Road, Walnut, CA 91789, USA
Standard : ETSI EN 301 893 V2.1.1 (2017-05)

The product was received on Nov. 04, 2024, and testing was performed from Nov. 08, 2024 to Nov. 17, 2024. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ETSI EN 301 893 V2.1.1 (2017-05), and shown compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	4.2.1	Centre Frequencies	-	See Note
-	4.2.2	Channel Bandwidth	-	See Note
3.1	4.2.3	RF Output Power, Transmit Power Control (TPC)	PASS	-
-	4.2.3	Power Density	-	See Note
3.2	4.2.4	Transmitter Unwanted Emissions Outside of Band	PASS	-
-	4.2.4	Transmitter Unwanted Emissions within the 5GHz RLAN Band	-	See Note
-	4.2.6	Dynamic Frequency Selection (DFS)	-	See Note
4.1	4.2.5	Receiver Spurious Emissions	PASS	-
-	4.2.8	Receiver Blocking	-	See Note
-	4.2.7	Adaptivity	-	See Note
Note: 1. For host device, Radiated Spurious Emission is verified and complies with the limit in this test report. 2. For host device, the Conducted Output Power is no difference after compared to module (Model: AX211NGW). 3. This report is by changing equipment name, brand name, model name and applicant information. Since the test result is not affected by the changes, the ER4N0301-02B report reuses test data from the ER4N0301B report.				



Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/matrix manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

1. The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.
2. The purpose of different model name is for marketing segmentation.

Reviewed by: Sheng Kuo

Report Producer: Lucy Wu



1. General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ax, Wi-Fi 5GHz 802.11a/n/ac/ax and Wi-Fi 6GHz 802.11ax.	
Antenna Type WLAN: <Main>: Dipole Antenna <Aux.>: Dipole Antenna Bluetooth: Dipole Antenna	
Integrated WLAN module	Brand Name: Intel® Wi-Fi 6E AX211 Model Name: AX211NGW

Antenna information		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	<Main>: 2.91 <Aux.>: 2.09
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	<Main>: 2.06 <Aux.>: 1.83
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	<Main>: 1.59 <Aux.>: 1.23

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.



1.3 Testing Facility

Test Site	Sporton International Inc. Wensan Laboratory	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	TH05-HY	05CH07-HY
Test Engineer	Shiming Liu	Cha Wang, WeiChih Chen, and Sai Chu
Temperature (°C)	21~25	21~25
Relative Humidity (%)	51~54	52~64

1.4 Applied Standards

According to the specifications declared by the manufacturer, the EUT must complies with the requirements of **ETSI EN 301 893 V2.1.1 (2017-05)**.

Note: All test items were verified and recorded according to the standards and without any deviation during the test.

2. Test Configuration of Equipment under Test

2.1 Test Consideration

- a. During testing, the interface cables and equipment positions were varied according to ETSI EN 301 893 V2.1.1 (2017-05).
- b. The complete test system included EUT for RF test.
- c. For 802.11n Mode, 802.11ac Mode, and 802.11ax Mode, the SISO mode conducted power is covered by MIMO mode per chain, so only the MIMO mode is tested.
- d. The power for 802.11n and 802.11ac mode is smaller than 802.11ax mode, so all other conducted and radiated test is covered by 802.11ax mode.

Single Antenna

Modulation	Data Rate
802.11a	6 Mbps

MIMO Antenna

Modulation	Data Rate
802.11n HT20 (Covered by HE20)	MCS0
802.11n HT40 (Covered by HE40)	MCS0
802.11ac VHT20 (Covered by HE20)	MCS0
802.11ac VHT40 (Covered by HE40)	MCS0
802.11ac VHT80 (Covered by HE80)	MCS0
802.11ac VHT160 (Covered by HE160)	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0
802.11ax HE160	MCS0

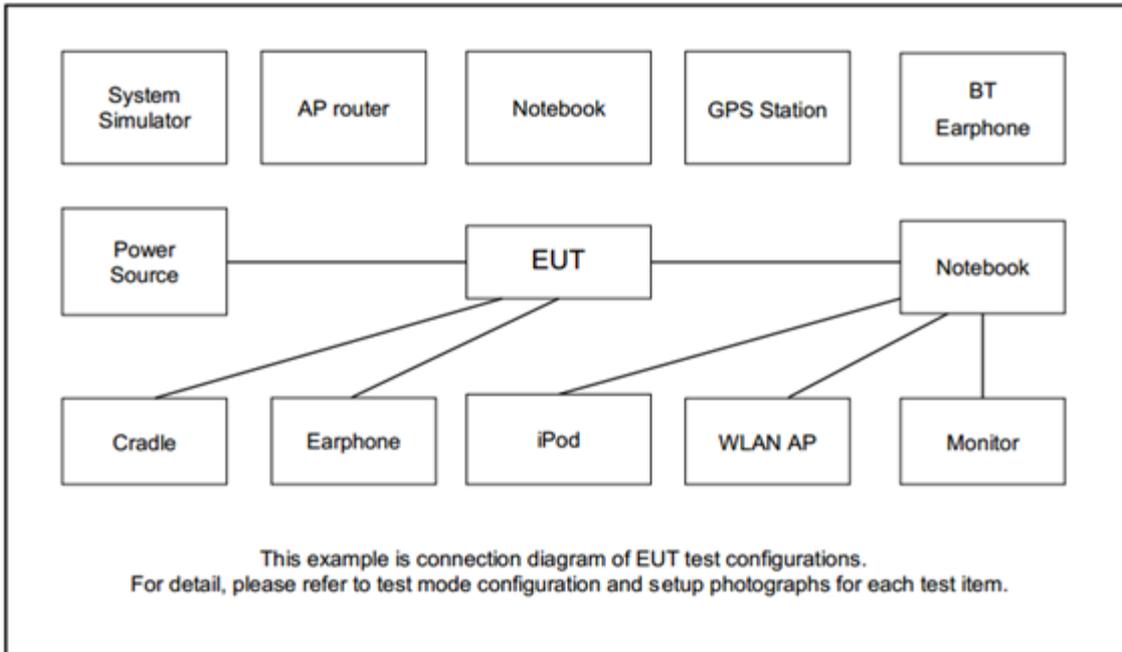
2.2 Test Mode

Frequency range of radiation was investigated from 25 MHz to 26 GHz.

For radiated measurement, pre-scanned in two antenna degree (Ant. degree 0 and Ant. Degree 90).
The worst cases were recorded in this report.

Remark: The detailed test modes are shown in appendix B.

2.3 Connection Diagram of Test System



2.4 EUT Operation Test Setup

Programmed RF utility, "DRTU" was installed in the EUT provides functions like channel selection and power level for continuous transmitting and receiving signals.



2.5 Test Channel

Test	Clause	Test channels		
		Lower sub-band (5 150 MHz to 5 350 MHz)		Higher sub-band 5 470 MHz to 5 725 MHz
		5 150 MHz to 5 250 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
<p>C1, C3: The lowest declared channel for every declared <i>Nominal Channel Bandwidth</i> within this band. For the power density testing, it is sufficient to only perform this test using the lowest <i>Nominal Channel Bandwidth</i>.</p> <p>C2, C4: The highest declared channel for every declared <i>Nominal Channel Bandwidth</i> within this band. For the power density testing, it is sufficient to only perform this test using the lowest <i>Nominal Channel Bandwidth</i>.</p> <p>C5, C6: One channel out of the declared channels for this frequency range. If more than one <i>Nominal Channel Bandwidth</i> has been declared for this sub-band, testing shall be performed using the lowest and highest <i>Nominal Channel Bandwidth</i>.</p> <p>C7, C8: One channel out of the declared channels for this sub-band. For <i>Occupied Channel Bandwidth</i>, testing shall be repeated for every declared <i>Nominal Channel Bandwidth</i> within this sub-band.</p> <p>C9: One channel out of the declared channels.</p> <p>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.</p> <p>NOTE 2: Testing is not required for <i>Nominal Channel Bandwidths</i> that fall completely within the frequency range 5 150 MHz to 5 250 MHz.</p> <p>NOTE 3: Where the declared channel plan includes channels whose <i>Nominal Channel Bandwidth</i> falls completely or partly within the 5 600 MHz to 5 650 MHz band, the tests for the <i>Channel Availability Check</i> (and where implemented, for the <i>Off-Channel CAC</i>) shall be performed on one of these channels in addition to a channel within the band 5 470 MHz to 5 600 MHz or within the band 5 650 MHz to 5 725 MHz.</p>				



3. Transmitter Parameters

3.1 RF Output Power

3.1.1 Limit of RF Output Power

X	Radar detection function		
V	TPC Function		
Frequency	Highest Power (dBm)	Lowest Power (dBm)	
5150-5250 MHz	23	-	
5250-5350 MHz	23	17	
5470-5725 MHz	23	17	
Symbol Note			
V	Support	X	Not Support

Mean e.i.r.p. limits for RF output power and power density at the highest power level				
Frequency range [MHz]	Mean e.i.r.p. limit [dBm]		Mean e.i.r.p. density limit [dBm/MHz]	
	with TPC	without TPC	with TPC	without TPC
5 150 to 5 350	23	20/23 (see note 1)	10	7/10 (see note 2)
5 470 to 5 725	30 (see note 3)	27 (see note 3)	17 (see note 3)	14 (see note 3)
NOTE 1: The applicable limit is 20 dBm, except for transmissions whose nominal bandwidth falls completely within the band 5 150 MHz to 5 250 MHz, in which case the applicable limit is 23 dBm.				
NOTE 2: The applicable limit is 7 dBm/MHz, except for transmissions whose nominal bandwidth falls completely within the band 5 150 MHz to 5 250 MHz, in which case the applicable limit is 10 dBm/MHz.				
NOTE 3: Slave devices without a Radar Interference Detection function shall comply with the limits for the band 5 250 MHz to 5 350 MHz.				
Mean e.i.r.p. limits for RF output power at the lowest power level of the TPC range				
Frequency range	Mean e.i.r.p. [dBm]			
5 250 MHz to 5 350 MHz	17			
5 470 MHz to 5 725 MHz	24 (see note)			
NOTE: Slave devices without a Radar Interference Detection function shall comply with the limits for the band 5 250 MHz to 5 350 MHz.				

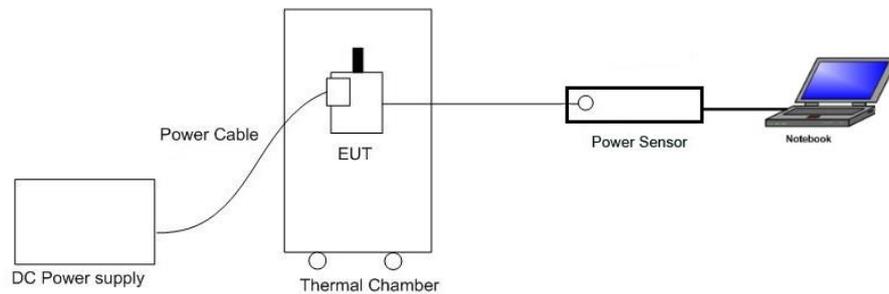
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in the section 5 of this test report.

3.1.3 Test Procedure

1. Refer to Section 5.4.4.2.1 of ETSI EN 301 893 V2.1.1 (2017-05).
2. EUT is placed in the thermal chamber.
3. The transmitter output port is connected to the power meter.
4. Set thermal chamber temperature and power supply voltage to suitable value.
5. The conducted power is equal to the reading level on power meter offset with cable loss.
6. The EIRP is equal to the conducted power plus the antenna gain.
7. Repeat step 4 to 6 at different test condition and different channels.

3.1.4 Test Setup



3.1.5 Test Results

Please refer to Appendix A.

3.2 Transmitter Unwanted Emissions Outside of Band

Transmitter unwanted emissions outside the 5 GHz RLAN bands are radio frequency emissions outside the 5 GHz RLAN bands. (5 GHz RLAN bands: 5150-5350MHz and 5470-5725MHz)

3.2.1 Limit of Transmitter Unwanted Emissions Outside of Band

In case of equipment with antenna connectors, these limits apply to emissions at the antenna port (conducted) and to the emissions radiated by the cabinet. In case of integral antenna equipment (without temporary antenna connectors), these limits apply to emissions radiated by the equipment.

SUBCLAUSE 4.2.4.1.2		
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

3.2.2 Measuring Instruments

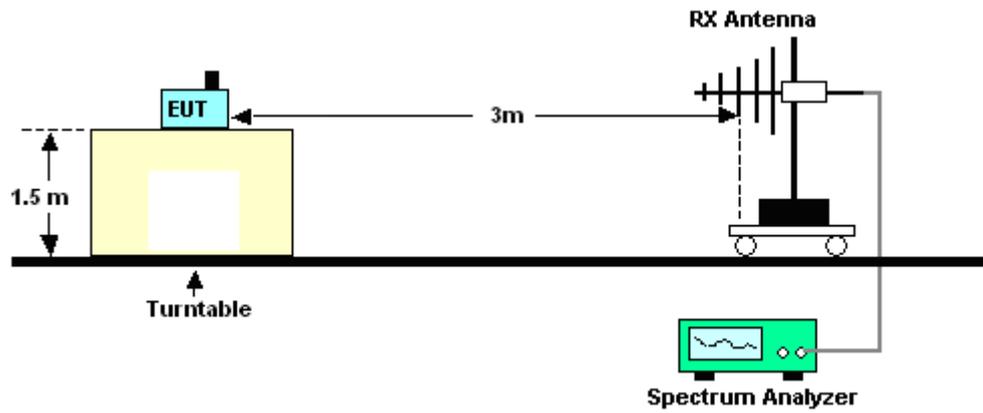
Please refer to the measuring equipment list in the section 5 of this test report.

3.2.3 Test Procedures

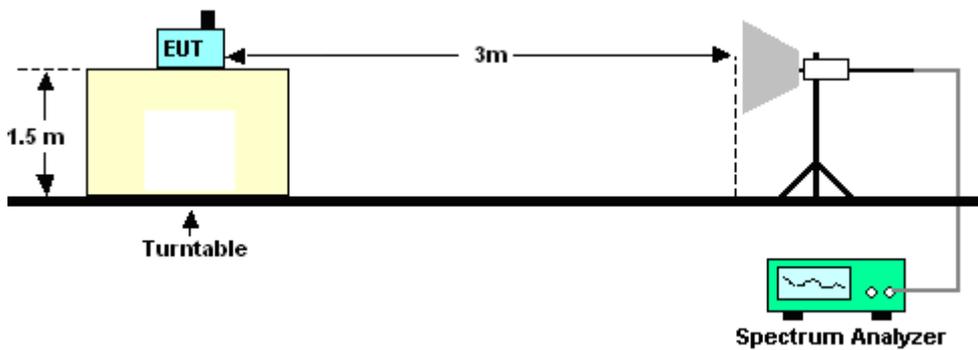
Refer to Section 5.4.5 of ETSI EN 301 893 V2.1.1 (2017-05).

3.2.4 Test Setup

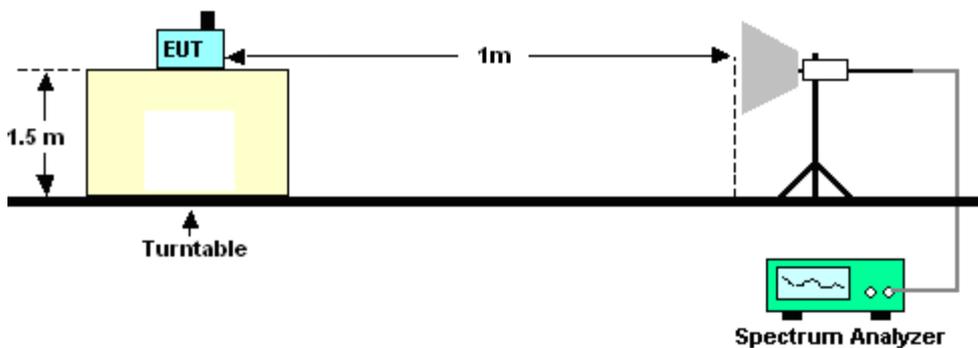
<25MHz~1GHz>



<1GHz~18GHz>



<18GHz~26GHz>



3.2.5 Test Result of Radiated Measurement

Please refer to Appendix B.



4. Receiver Parameters

4.1 Receiver Spurious Emissions

4.1.1 Limit of Receiver Spurious Emissions

In case of equipment with antenna connectors, these limits apply to emissions at the antenna port (conducted) and to the emissions radiated by the cabinet. In case of integral antenna equipment (without temporary antenna connectors), these limits apply to emissions radiated by the equipment.

SUBCLAUSE 4.2.5.2		
FREQUENCY RANGE	MAXIMUM POWER	MEASURED BANDWIDTH
30 MHz to 1 GHz	-57 dBm	100 KHz
1 GHz to 26 GHz	-47 dBm	1 MHz

4.1.2 Measuring Instruments

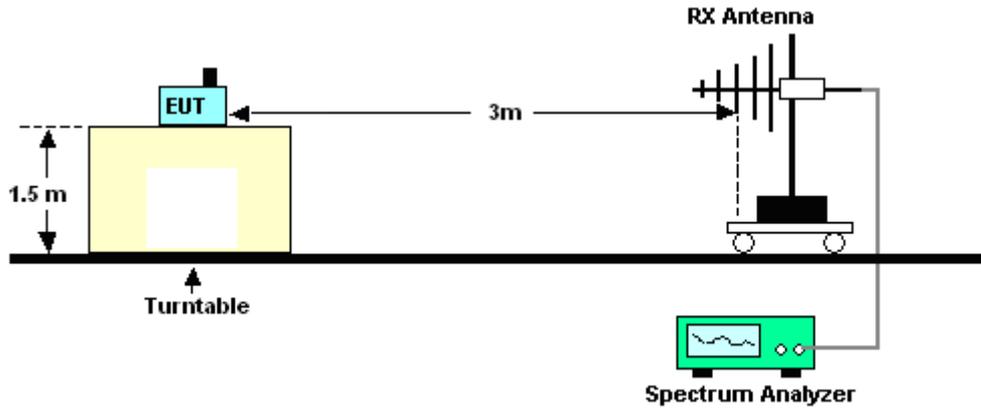
Please refer to the measuring equipment list in the section 5 of this test report.

4.1.3 Test Procedures

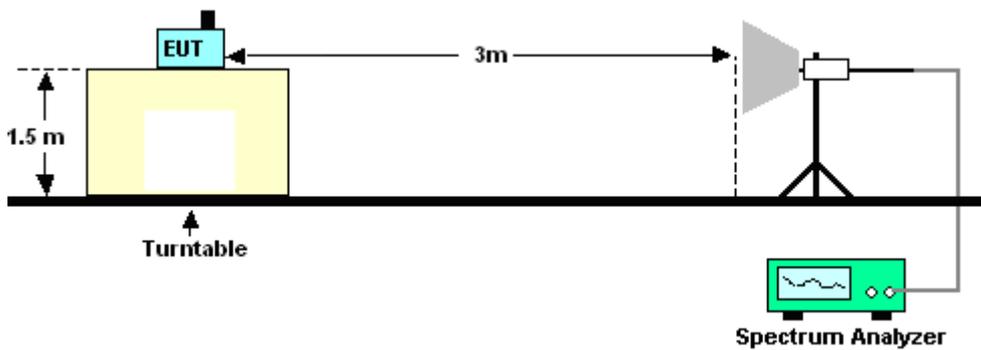
Refer to Section 5.4.7 of ETSI EN 301 893 V2.1.1 (2017-05).

4.1.4 Test Setup

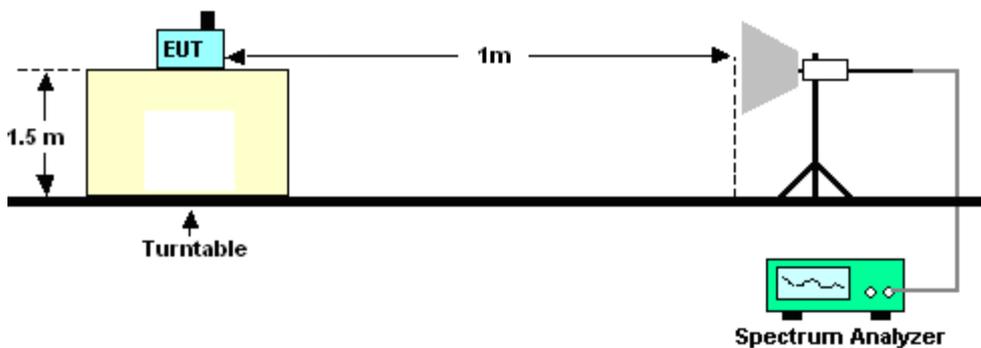
<25MHz~1GHz>



<1GHz~18GHz>



<18GHz~26GHz>



4.1.5 Test Result of Radiated Measurement

Please refer to Appendix B.



5. List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Nov. 08, 2024~ Nov. 09, 2024	Oct. 30, 2025	Conducted (TH05-HY)
USB Power Sensor	DARE	RPR3008W	RPR8W-2301 016 (NO:54)	10MHz~8GHz	Jul. 16, 2024	Nov. 08, 2024~ Nov. 09, 2024	Jul. 15, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101466	10HZ~44GHZ	Aug. 14, 2024	Nov. 08, 2024~ Nov. 09, 2024	Aug. 13, 2025	Conducted (TH05-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300484 (BOX3)	N/A	May 20, 2024	Nov. 08, 2024~ Nov. 09, 2024	May 19, 2025	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_ version_240513	N/A	Conducted Other Test Item	N/A	Nov. 08, 2024~ Nov. 09, 2024	N/A	Conducted (TH05-HY)
Bilog Antenna	TESEQ	CBL 6111D	62223	30MHz~1GHz	Oct. 05, 2024	Nov. 16, 2024~ Nov. 17, 2024	Oct. 04, 2025	Radiation (05CH07-HY)
Horn Antenna	ESCO	3117	00243524	1GHz~18GHz	Apr. 25, 2024	Nov. 16, 2024~ Nov. 17, 2024	Apr. 24, 2025	Radiation (05CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1224	18GHz~40GHz	Jun. 24, 2024	Nov. 16, 2024~ Nov. 17, 2024	Jun. 23, 2025	Radiation (05CH07-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101322	10Hz~44GHz	Jul. 01, 2024	Nov. 16, 2024~ Nov. 17, 2024	Jun. 30, 2025	Radiation (05CH07-HY)
Amplifier	EMEC	EM01G18GA	060880	1GHz~18GHz	Sep. 27, 2024	Nov. 16, 2024~ Nov. 17, 2024	Sep. 26, 2025	Radiation (05CH07-HY)
Amplifier	SONOMA	310N	421583	9kHz~1GHz	Jul. 10, 2024	Nov. 16, 2024~ Nov. 17, 2024	Jul. 09, 2025	Radiation (05CH07-HY)
Preamplifier	EMEC	EM18G40G	060875	18GHz~40GHz	Sep. 11, 2024	Nov. 16, 2024~ Nov. 17, 2024	Sep. 10, 2025	Radiation (05CH07-HY)
Hygrometer	TECPEL	DTM-303A	TP211388	N/A	Oct. 21, 2024	Nov. 16, 2024~ Nov. 17, 2024	Oct. 20, 2025	Radiation (05CH07-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mas	N/A	Nov. 16, 2024~ Nov. 17, 2024	N/A	Radiation (05CH07-HY)
Antenna Mast	ChainTek	MD-200	1308055	1m~4m	N/A	Nov. 16, 2024~ Nov. 17, 2024	N/A	Radiation (05CH07-HY)
Turn Table	EMEC	TT 2000	N/A	0-360 degree	N/A	Nov. 16, 2024~ Nov. 17, 2024	N/A	Radiation (05CH07-HY)
Test Software	Audix E3	210616	RK-002350	N/A	N/A	Nov. 16, 2024~ Nov. 17, 2024	N/A	Radiation (05CH07-HY)



6. Measurement Uncertainty

Test Item		Uncertainty
RF output power, conducted		±0.92 dB
Radiated emissions	25MHz ~ 1GHz	±3.10 dB
	1GHz ~ 18GHz	±3.72 dB
	18GHz ~ 40GHz	±4.09 dB
Temperature		±0.58 °C
Humidity		±3.46 %

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Shiming Liu	Temperature:	21~25	°C
Test Date:	2024/11/08 ~ 2024/11/09	Relative Humidity:	51~54	%

Remark: For Conducted Test Items, Ant. 1 means Chain A (Aux.) and Ant. 2 means Chain B (Main).

TEST RESULTS DATA
Average Power Table

CE Band I single antenna											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)						
					Ant 1			Ant 2			
					Tnom	Tmin	Tmax	Tnom	Tmin	Tmax	
					25 °C	-	-	25 °C	-	-	
11a	6Mbps	1	36	5180	16.20	-	-	16.30	-	-	
Antenna Gain(dBi)					2.09			2.91			

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average EIRP Power (dBm)						EIRP Power Limit (dBm)	Pass /Fail
					Ant 1			Ant 2				
					Tnom	Tmin	Tmax	Tnom	Tmin	Tmax		
					25 °C	-	-	25 °C	-	-		
11a	6Mbps	1	36	5180	18.29	-	-	19.21	-	-	23.00	Pass
Antenna Gain(dBi)					2.09			2.91				

CE Band II single antenna											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)						
					Ant 1			Ant 2			
					Tnom	Tmin	Tmax	Tnom	Tmin	Tmax	
					25 °C	-	-	25 °C	-	-	
11a	6Mbps	1	64	5320	15.80	-	-	16.30	-	-	
Antenna Gain(dBi)					1.83			2.06			

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average EIRP Power (dBm)						EIRP Power Limit (dBm)	Pass /Fail
					Ant 1			Ant 2				
					Tnom	Tmin	Tmax	Tnom	Tmin	Tmax		
					25 °C	-	-	25 °C	-	-		
11a	6Mbps	1	64	5320	17.63	-	-	18.36	-	-	23.00	Pass
Antenna Gain(dBi)					1.83			2.06				

CE Band III single antenna											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)						
					Ant 1			Ant 2			
					Tnom	Tmin	Tmax	Tnom	Tmin	Tmax	
					25 °C	-	-	25 °C	-	-	
11a	6Mbps	1	100	5500	16.40	-	-	16.40	-	-	
			140	5700	16.30	-	-	15.90	-	-	
Antenna Gain(dBi)					1.23			1.59			

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average EIRP Power (dBm)						EIRP Power Limit (dBm)	Pass /Fail
					Ant 1			Ant 2				
					Tnom	Tmin	Tmax	Tnom	Tmin	Tmax		
					25 °C	-	-	25 °C	-	-		
11a	6Mbps	1	100	5500	17.63	-	-	17.99	-	-	23.00	Pass
			140	5700	17.53	-	-	17.49	-	-	23.00	Pass
Antenna Gain(dBi)					1.23			1.59				

CE Band I MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)							
					MIMO Ant 1			MIMO Ant 2				
					Tnom	Tmin	Tmax	Tnom	Tmin	Tmax		
					25 °C	-	-	25 °C	-	-		
HT20	MCS 0	2	36	5180	13.40	-	-	13.30	-	-		
HT40	MCS 0	2	38	5190	14.50	-	-	14.00	-	-		
VHT20	MCS 0	2	36	5180	13.40	-	-	13.30	-	-		
VHT40	MCS 0	2	38	5190	14.50	-	-	14.00	-	-		
VHT80	MCS 0	2	42	5210	14.30	-	-	14.10	-	-		
Antenna Gain(dBi)					2.09			2.91				
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	SUM of Conducted Power (dBm)			SUM of EIRP Power (dBm)			EIRP Power Limit (dBm)	Pass /Fail
					Tnom	Tmin	Tmax	Tnom	Tmin	Tmax		
					25 °C	-	-	25 °C	-	-		
					HT20	MCS 0	2	36	5180	16.36		
HT40	MCS 0	2	38	5190	17.27	-	-	20.18	-	-	23.00	Pass
VHT20	MCS 0	2	36	5180	16.36	-	-	19.27	-	-	23.00	Pass
VHT40	MCS 0	2	38	5190	17.27	-	-	20.18	-	-	23.00	Pass
VHT80	MCS 0	2	42	5210	17.21	-	-	20.12	-	-	23.00	Pass
Antenna Gain(dBi)					2.91							

CE Band II MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)							
					MIMO Ant 1			MIMO Ant 2				
					Tnom	Tmin	Tmax	Tnom	Tmin	Tmax		
					25 °C	-	-	25 °C	-	-		
HT20	MCS 0	2	64	5320	13.10	-	-	13.30	-	-		
HT40	MCS 0	2	62	5310	13.90	-	-	14.00	-	-		
VHT20	MCS 0	2	64	5320	13.10	-	-	13.30	-	-		
VHT40	MCS 0	2	62	5310	13.90	-	-	14.00	-	-		
VHT80	MCS 0	2	58	5290	14.20	-	-	14.20	-	-		
VHT160	MCS 0	2	50	5250	14.00	-	-	13.80	-	-		
Antenna Gain(dBi)					1.83			2.06				
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	SUM of Conducted Power (dBm)			SUM of EIRP Power (dBm)			EIRP Power Limit (dBm)	Pass /Fail
					Tnom	Tmin	Tmax	Tnom	Tmin	Tmax		
					25 °C	-	-	25 °C	-	-		
					HT20	MCS 0	2	64	5320	16.21		
HT40	MCS 0	2	62	5310	16.96	-	-	19.02	-	-	23.00	Pass
VHT20	MCS 0	2	64	5320	16.21	-	-	18.27	-	-	23.00	Pass
VHT40	MCS 0	2	62	5310	16.96	-	-	19.02	-	-	23.00	Pass
VHT80	MCS 0	2	58	5290	17.21	-	-	19.27	-	-	23.00	Pass
VHT160	MCS 0	2	50	5250	16.91	-	-	18.97	-	-	23.00	Pass
Antenna Gain(dBi)					2.06							

CE Band III MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)							
					MIMO Ant 1			MIMO Ant 2				
					Tnom	Tmin	Tmax	Tnom	Tmin	Tmax		
					25 °C	-	-	25 °C	-	-		
HT20	MCS 0	2	100	5500	13.40	-	-	13.40	-	-		
			140	5700	13.70	-	-	13.80	-	-		
HT40	MCS 0	2	102	5510	14.40	-	-	14.10	-	-		
			134	5670	14.10	-	-	14.40	-	-		
VHT20	MCS 0	2	100	5500	13.40	-	-	13.40	-	-		
			140	5700	13.70	-	-	13.80	-	-		
VHT40	MCS 0	2	102	5510	14.40	-	-	14.10	-	-		
			134	5670	14.10	-	-	14.40	-	-		
VHT80	MCS 0	2	106	5530	14.20	-	-	14.50	-	-		
			122	5610	14.00	-	-	14.00	-	-		
VHT160	MCS 0	2	114	5570	14.00	-	-	13.90	-	-		
Antenna Gain(dBi)					1.23			1.59				
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	SUM of Conducted Power (dBm)			SUM of EIRP Power (dBm)			EIRP Power Limit (dBm)	Pass /Fail
					Tnom	Tmin	Tmax	Tnom	Tmin	Tmax		
					25 °C	-	-	25 °C	-	-		
HT20	MCS 0	2	100	5500	16.41	-	-	18.00	-	-	23.00	Pass
			140	5700	16.76	-	-	18.35	-	-	23.00	Pass
HT40	MCS 0	2	102	5510	17.26	-	-	18.85	-	-	23.00	Pass
			134	5670	17.26	-	-	18.85	-	-	23.00	Pass
VHT20	MCS 0	2	100	5500	16.41	-	-	18.00	-	-	23.00	Pass
			140	5700	16.76	-	-	18.35	-	-	23.00	Pass
VHT40	MCS 0	2	102	5510	17.26	-	-	18.85	-	-	23.00	Pass
			134	5670	17.26	-	-	18.85	-	-	23.00	Pass
VHT80	MCS 0	2	106	5530	17.36	-	-	18.95	-	-	23.00	Pass
			122	5610	17.01	-	-	18.60	-	-	23.00	Pass
VHT160	MCS 0	2	114	5570	16.96	-	-	18.55	-	-	23.00	Pass
Antenna Gain(dBi)					1.59							

TEST RESULTS DATA
Average Power Table

CE Band I MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)							
						MIMO Ant 1			MIMO Ant 2				
						Tnom	Tmin	Tmax	Tnom	Tmin	Tmax		
						25 °C	0 °C	0 °C	25 °C	0 °C	0 °C		
HE20	MCS 0	2	36	5180	Full	13.70	-	-	13.70	-	-		
HE40	MCS 0	2	38	5190	Full	14.60	-	-	14.10	-	-		
HE80	MCS 0	2	42	5210	Full	14.40	-	-	14.20	-	-		
Antenna Gain(dBi)						2.09			2.91				
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	SUM of Conducted Power (dBm)			SUM of EIRP Power (dBm)			EIRP Power Limit (dBm)	Pass /Fail
						Tnom	Tmin	Tmax	Tnom	Tmin	Tmax		
						25 °C	0 °C	0 °C	25 °C	0 °C	0 °C		
						HE20	MCS 0	2	36	5180	Full		
HE40	MCS 0	2	38	5190	Full	17.37	-	-	20.28	-	-	23.00	Pass
HE80	MCS 0	2	42	5210	Full	17.31	-	-	20.22	-	-	23.00	Pass
Antenna Gain(dBi)						2.91							
CE Band II MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)							
						MIMO Ant 1			MIMO Ant 2				
						Tnom	Tmin	Tmax	Tnom	Tmin	Tmax		
						25 °C	0 °C	0 °C	25 °C	0 °C	0 °C		
HE20	MCS 0	2	64	5320	Full	13.50	-	-	13.70	-	-		
HE40	MCS 0	2	62	5310	Full	14.40	-	-	14.50	-	-		
HE80	MCS 0	2	58	5290	Full	14.30	-	-	14.30	-	-		
HE160	MCS 0	2	50	5250	Full	14.50	-	-	14.30	-	-		
Antenna Gain(dBi)						1.83			2.06				
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	SUM of Conducted Power (dBm)			SUM of EIRP Power (dBm)			EIRP Power Limit (dBm)	Pass /Fail
						Tnom	Tmin	Tmax	Tnom	Tmin	Tmax		
						25 °C	0 °C	0 °C	25 °C	0 °C	0 °C		
						HE20	MCS 0	2	64	5320	Full		
HE40	MCS 0	2	62	5310	Full	17.46	-	-	19.52	-	-	23.00	Pass
HE80	MCS 0	2	58	5290	Full	17.31	-	-	19.37	-	-	23.00	Pass
HE160	MCS 0	2	50	5250	Full	17.41	-	-	19.47	-	-	23.00	Pass
Antenna Gain(dBi)						2.06							

CE Band III MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)							
						MIMO Ant 1			MIMO Ant 2				
						Tnom	Tmin	Tmax	Tnom	Tmin	Tmax		
						25 °C	0 °C	0 °C	25 °C	0 °C	0 °C		
HE20	MCS 0	2	100	5500	Full	13.40	-	-	13.50	-	-		
			140	5700	Full	13.80	-	-	13.90	-	-		
HE40	MCS 0	2	102	5510	Full	14.50	-	-	14.20	-	-		
			134	5670	Full	14.20	-	-	14.50	-	-		
HE80	MCS 0	2	106	5530	Full	14.30	-	-	14.60	-	-		
			122	5610	Full	14.10	-	-	14.10	-	-		
HE160	MCS 0	2	114	5570	Full	14.40	-	-	14.20	-	-		
Antenna Gain(dBi)						1.23			1.59				
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	SUM of Conducted Power (dBm)			SUM of EIRP Power (dBm)			EIRP Power Limit (dBm)	Pass /Fail
						Tnom	Tmin	Tmax	Tnom	Tmin	Tmax		
						25 °C	0 °C	0 °C	25 °C	0 °C	0 °C		
HE20	MCS 0	2	100	5500	Full	16.46	-	-	18.05	-	-	23.00	Pass
			140	5700	Full	16.86	-	-	18.45	-	-	23.00	Pass
HE40	MCS 0	2	102	5510	Full	17.36	-	-	18.95	-	-	23.00	Pass
			134	5670	Full	17.36	-	-	18.95	-	-	23.00	Pass
HE80	MCS 0	2	106	5530	Full	17.46	-	-	19.05	-	-	23.00	Pass
			122	5610	Full	17.11	-	-	18.70	-	-	23.00	Pass
HE160	MCS 0	2	114	5570	Full	17.31	-	-	18.90	-	-	23.00	Pass
Antenna Gain(dBi)						1.59							



Appendix B. Radiated Spurious Emission Test Data

Remark: For Radiated Spurious Emission Test Data, Ant. 1 means Chain A (Aux.) and Ant. 2 means Chain B (Main).

B1. Radiated Spurious Emission Test Modes

Antenna	Mode	TX/RX	Test Function	Condition	Modulation	Channel	Frequency	Axis
2	Mode 1	Tx	802.11a	6Mbps	OFDM	36	5180	Ant 90°
2	Mode 2	Tx	802.11a	6Mbps	OFDM	100	5500	Ant 90°
1+2	Mode 3	Tx	802.11ax HE20	MCS 0	OFDMA	36	5180	Ant 90°
1+2	Mode 4	Tx	802.11ax HE20	MCS 0	OFDMA	140	5700	Ant 90°
1+2	Mode 5	Tx	802.11ax HE40	MCS 0	OFDMA	62	5310	Ant 90°
1+2	Mode 6	Tx	802.11ax HE40	MCS 0	OFDMA	134	5670	Ant 90°
1+2	Mode 7	Tx	802.11ax HE80	MCS 0	OFDMA	58	5290	Ant 90°
1+2	Mode 8	Tx	802.11ax HE80	MCS 0	OFDMA	106	5530	Ant 90°
1+2	Mode 9	Tx	802.11ax HE160	MCS 0	OFDMA	50	5250	Ant 90°
1+2	Mode 10	Tx	802.11ax HE160	MCS 0	OFDMA	114	5570	Ant 90°
1+2	Mode 11	Rx	802.11ax HE20	MCS 0	OFDMA	36	5180	Ant 90°
1+2	Mode 12	Rx	802.11ax HE40	MCS 0	OFDMA	134	5670	Ant 90°
1+2	Mode 13	Rx	802.11ax HE80	MCS 0	OFDMA	58	5290	Ant 90°
1+2	Mode 14	Rx	802.11ax HE160	MCS 0	OFDMA	50	5250	Ant 90°



B2. Summary of each worse mode

Mode	Freq. (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization	Result
1	16691.00	-40.10	-30.00	-10.10	V	Pass
2	16713.00	-39.54	-30.00	-9.54	V	Pass
3	16680.00	-39.45	-30.00	-9.45	V	Pass
4	16757.00	-39.81	-30.00	-9.81	V	Pass
5	16669.00	-39.80	-30.00	-9.80	V	Pass
6	16768.00	-38.93	-30.00	-8.93	V	Pass
7	17439.00	-37.98	-30.00	-7.98	V	Pass
8	16713.00	-38.38	-30.00	-8.38	V	Pass
9	5408.00	-37.66	-30.00	-7.66	V	Pass
10	17956.00	-38.12	-30.00	-8.12	V	Pass
11	16892.31	-55.35	-47.00	-8.35	V	Pass
12	16883.08	-55.31	-47.00	-8.31	V	Pass
13	16883.08	-55.08	-47.00	-8.08	V	Pass
14	16873.85	-55.20	-47.00	-8.20	V	Pass



Mode	1																																																																																																																																																	
	802.11a OFDM_CH36																																																																																																																																																	
Ant	2																																																																																																																																																	
Pol.	Horizontal	Vertical																																																																																																																																																
Tx	<p style="text-align: right;">Date: 2024-11-17</p> <p>Site : 05CH07-HY Condition: 301893-TX HORIZONTAL</p> <p>Mode : 1 Plane : Ant 90</p> <table border="1"> <thead> <tr> <th>Result</th> <th>Freq</th> <th>Level</th> <th>Margin</th> <th>Limit</th> <th>Read</th> <th>Factor</th> <th>Pol/Phase</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBm</th> <th>dB</th> <th>dBm</th> <th>dBm</th> <th>dB</th> <th></th> </tr> </thead> <tbody> <tr><td>1</td><td>715.30</td><td>-72.17</td><td>-18.17</td><td>-54.00</td><td>-71.71</td><td>-0.46</td><td>HORIZONTAL</td></tr> <tr><td>2</td><td>4816.00</td><td>-53.71</td><td>-23.71</td><td>-30.00</td><td>-73.87</td><td>20.16</td><td>HORIZONTAL</td></tr> <tr><td>3</td><td>5024.00</td><td>-52.86</td><td>-22.86</td><td>-30.00</td><td>-72.82</td><td>19.96</td><td>HORIZONTAL</td></tr> <tr><td>4</td><td>5149.80</td><td>-49.99</td><td>-19.99</td><td>-30.00</td><td>-70.24</td><td>20.25</td><td>HORIZONTAL</td></tr> <tr><td>5</td><td>5371.00</td><td>-52.39</td><td>-22.39</td><td>-30.00</td><td>-73.04</td><td>20.65</td><td>HORIZONTAL</td></tr> <tr><td>6</td><td>6988.00</td><td>-50.13</td><td>-20.13</td><td>-30.00</td><td>-70.86</td><td>20.73</td><td>HORIZONTAL</td></tr> <tr><td>7 @</td><td>16680.00</td><td>-41.65</td><td>-11.65</td><td>-30.00</td><td>-62.96</td><td>21.31</td><td>HORIZONTAL</td></tr> </tbody> </table>	Result	Freq	Level	Margin	Limit	Read	Factor	Pol/Phase		MHz	dBm	dB	dBm	dBm	dB		1	715.30	-72.17	-18.17	-54.00	-71.71	-0.46	HORIZONTAL	2	4816.00	-53.71	-23.71	-30.00	-73.87	20.16	HORIZONTAL	3	5024.00	-52.86	-22.86	-30.00	-72.82	19.96	HORIZONTAL	4	5149.80	-49.99	-19.99	-30.00	-70.24	20.25	HORIZONTAL	5	5371.00	-52.39	-22.39	-30.00	-73.04	20.65	HORIZONTAL	6	6988.00	-50.13	-20.13	-30.00	-70.86	20.73	HORIZONTAL	7 @	16680.00	-41.65	-11.65	-30.00	-62.96	21.31	HORIZONTAL	<p style="text-align: right;">Date: 2024-11-17</p> <p>Site : 05CH07-HY Condition: 301893-TX VERTICAL</p> <p>Mode : 1 Plane : Ant 90</p> <table border="1"> <thead> <tr> <th>Result</th> <th>Freq</th> <th>Level</th> <th>Margin</th> <th>Limit</th> <th>Read</th> <th>Factor</th> <th>Pol/Phase</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBm</th> <th>dB</th> <th>dBm</th> <th>dBm</th> <th>dB</th> <th></th> </tr> </thead> <tbody> <tr><td>1</td><td>56.20</td><td>-68.55</td><td>-14.55</td><td>-54.00</td><td>-53.27</td><td>-15.28</td><td>VERTICAL</td></tr> <tr><td>2</td><td>1992.00</td><td>-52.39</td><td>-22.39</td><td>-30.00</td><td>-68.47</td><td>16.08</td><td>VERTICAL</td></tr> <tr><td>3</td><td>5078.00</td><td>-51.90</td><td>-21.90</td><td>-30.00</td><td>-72.15</td><td>20.25</td><td>VERTICAL</td></tr> <tr><td>4</td><td>5149.85</td><td>-46.87</td><td>-16.87</td><td>-30.00</td><td>-67.31</td><td>20.44</td><td>VERTICAL</td></tr> <tr><td>5</td><td>5363.10</td><td>-52.26</td><td>-22.26</td><td>-30.00</td><td>-72.95</td><td>20.69</td><td>VERTICAL</td></tr> <tr><td>6</td><td>6474.00</td><td>-49.66</td><td>-19.66</td><td>-30.00</td><td>-70.63</td><td>20.97</td><td>VERTICAL</td></tr> <tr><td>7 @</td><td>16691.00</td><td>-40.10</td><td>-10.10</td><td>-30.00</td><td>-61.50</td><td>21.40</td><td>VERTICAL</td></tr> </tbody> </table>	Result	Freq	Level	Margin	Limit	Read	Factor	Pol/Phase		MHz	dBm	dB	dBm	dBm	dB		1	56.20	-68.55	-14.55	-54.00	-53.27	-15.28	VERTICAL	2	1992.00	-52.39	-22.39	-30.00	-68.47	16.08	VERTICAL	3	5078.00	-51.90	-21.90	-30.00	-72.15	20.25	VERTICAL	4	5149.85	-46.87	-16.87	-30.00	-67.31	20.44	VERTICAL	5	5363.10	-52.26	-22.26	-30.00	-72.95	20.69	VERTICAL	6	6474.00	-49.66	-19.66	-30.00	-70.63	20.97	VERTICAL	7 @	16691.00	-40.10	-10.10	-30.00	-61.50	21.40	VERTICAL
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4	5456.55	-52.65	-22.65	-30.00	-73.36	20.71	HORIZONTAL																																																																																																																																										
5	5725.50	-52.01	-22.01	-30.00	-72.56	20.55	HORIZONTAL																																																																																																																																										
6	6994.00	-50.26	-20.26	-30.00	-70.99	20.73	HORIZONTAL																																																																																																																																										
7 @	16724.00	-41.68	-11.68	-30.00	-63.01	21.33	HORIZONTAL																																																																																																																																										
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1	55.23	-67.25	-13.25	-54.00	-52.52	-14.73	VERTICAL																																																																																																																																										
2	2004.00	-51.02	-21.02	-30.00	-67.15	16.13	VERTICAL																																																																																																																																										
3	5386.00	-51.35	-21.35	-30.00	-72.06	20.71	VERTICAL																																																																																																																																										
4	5437.70	-52.31	-22.31	-30.00	-73.05	20.74	VERTICAL																																																																																																																																										
5	5725.25	-49.42	-19.42	-30.00	-70.10	20.68	VERTICAL																																																																																																																																										
6	6960.00	-49.88	-19.88	-30.00	-70.72	20.84	VERTICAL																																																																																																																																										
7 @	16757.00	-39.81	-9.81	-30.00	-61.27	21.46	VERTICAL																																																																																																																																										



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4	5101.30	-48.53	-18.53	-30.00	-68.67	20.14	HORIZONTAL																																																																																																																																											
5	5396.45	-44.50	-14.50	-30.00	-65.17	20.67	HORIZONTAL																																																																																																																																											
6	5402.00	-43.69	-13.69	-30.00	-64.37	20.68	HORIZONTAL																																																																																																																																											
7 @	17978.00	-39.78	-9.78	-30.00	-60.98	21.20	HORIZONTAL																																																																																																																																											
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2	4992.00	-49.05	-19.05	-30.00	-69.12	20.07	VERTICAL																																																																																																																																											
3	5100.00	-43.43	-13.43	-30.00	-63.74	20.31	VERTICAL																																																																																																																																											
4	5137.45	-42.92	-12.92	-30.00	-63.33	20.41	VERTICAL																																																																																																																																											
5	5397.35	-39.62	-9.62	-30.00	-60.34	20.72	VERTICAL																																																																																																																																											
6 @	5408.00	-37.66	-7.66	-30.00	-58.39	20.73	VERTICAL																																																																																																																																											
7	17483.00	-38.27	-8.27	-30.00	-59.45	21.18	VERTICAL																																																																																																																																											



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Appendix C. Photographs of Test Configuration

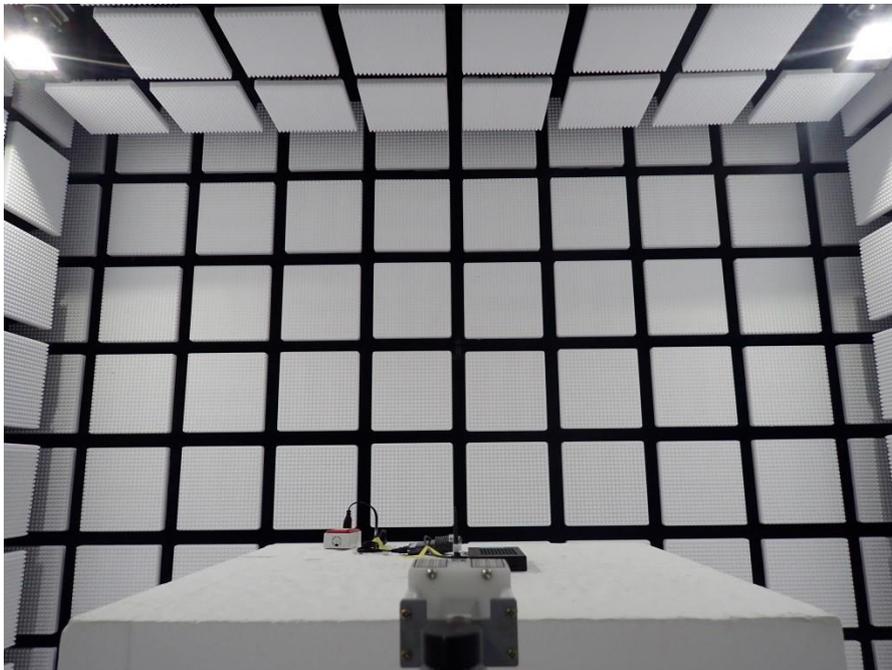
<Radiated Emission>

Degree 90

From 25MHz ~ 18GHz



From 18GHz ~ 26GHz



—————THE END—————