



Test Report No:
2570523R-RFNAV02S-H

TEST REPORT FCC Rules&Regulations

Product Name	Telematics Platform 2
Brand Name	PCI, LHP Telematics
Model No.	PCI-TP2
FCC ID	LY5-PCITP2V2
Applicant's Name / Address	PCI Private Limited 35 Pioneer Road North Singapore 628475 Singapore
Manufacturer's Name / Address (1)	PCI Private Limited 35 Pioneer Road North Singapore 628475 Singapore
Manufacturer's Name / Address (2)	LHP Telematics, LLC 17406 Tiller Court, Suite 100 Westfield, Indiana 46074, United States
Test Method Requested, Standard	FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10-2013
Verdict Summary	IN COMPLIANCE
Documented By	<i>Jennie She</i> Jennie She
Approved By	<i>Allen Lin</i> Allen Lin
Date of Receipt	Aug. 05, 2024
Date of Issue	Aug. 27, 2025
Report Version	V1.0

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Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

General Conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Aug. 27, 2025

Permissive Change

Report No.	Version	Description	Issued Date
2480097R-RFUSV01S-A	V1.0	Original application.	Oct. 18, 2024
2570523R-RFNAV02S-H	V1.0	<p><u>Class I Permissive Change:</u></p> <ol style="list-style-type: none"> 1. Add the Brand Name "LHP Telematics". 2. Add a new manufacturer "LHP Telematics, LLC". <p>After evaluation, it is not necessary to re-test and all test data was from original report.</p>	Aug. 27, 2025

Summary of Test Result

Report Clause	Test Items	Result (PASS/FAIL)	Remark
-	AC Power Line Conducted Emission	N/A	Note
3	Occupied Bandwidth & DTS Bandwidth	PASS	-
4	Maximum Conducted Output Power	PASS	-
5	Maximum Power Spectral Density	PASS	-
6	Antenna Port Conducted Emission	PASS	-
7	Transmitter Radiated Spurious Emission	PASS	-

Note:

It was supplied power by DC-Powered for EUT. It's not necessary to apply to AC Power Line Conducted Emission test.

Comments and Explanations

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer.

1. General Information

1.1. EUT Description

Frequency Range	2400 ~ 2483.5 MHz	
Operating Frequency	IEEE 802.11b/g IEEE 802.11n, VHT (20 MHz)	2412 ~ 2462 MHz
	IEEE 802.11n, VHT (40 MHz)	2422 ~ 2452 MHz
Channel Number	IEEE 802.11b/g IEEE 802.11n, VHT (20 MHz)	11 Channels
	IEEE 802.11n, VHT (40 MHz)	7 Channels
Type of Modulation	IEEE 802.11b	DSSS-DBPSK, DQPSK, CCK
	IEEE 802.11g/n	OFDM-BPSK, QPSK, 16QAM, 64QAM
	VHT	OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM,

Antenna Information				
Ant.	Brand Name	Model No.	Type	Antenna Gain (dBi)
1	Green Antenna	GADWIFI-DP01	FPC	2.96

1.2. EUT Information

EUT Power Type	From DC power supply			
EUT Function	<input checked="" type="checkbox"/>	Point-to-multipoint	<input type="checkbox"/>	Point-to-point
Beamforming Function	<input type="checkbox"/>	With beamforming	<input checked="" type="checkbox"/>	Without beamforming

1.3. Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF:

- ♦ KDB 558074 D01 v05r02

1.4. Testing Location Information

Testing Location Information	
Test Laboratory : DEKRA Testing and Certification Co., Ltd.	
1 (TAF: 3024)	ADD: No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.
2 (TAF: 3024)	ADD: No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.
Test site number for address 1 includes HC-SR02 and HC-CB10. Test site number for address 2 includes HC-CB02, HC-CB03, HC-CB04, HC-SR10 and HC-SR12.	

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted Emission	HC-SR12	Clemens Fang	21.5~25.5 / 55~61	2024/08/10~2024/08/16
Radiated Emission	HC-CB04	Ling Chen Cyril Chen	20~25 / 60~65	2024/08/09~2024/08/16
Radiated Emissions Co-location	HC-CB02	Scott Chang Gary Liao	22~25 / 51~58.5	2024/08/12~2024/08/16

1.5. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Test Item	Uncertainty
Occupied Bandwidth & DTS Bandwidth	± 282.55 Hz
Maximum Conducted Output Power	± 1.16 dB
Maximum Power Spectral Density	± 2.47 dB
Antenna Port Conducted Emission	± 2.47 dB
Transmitter Radiated Spurious Emission	± 3.52 dB below 1 GHz ± 3.56 dB above 1 GHz

1.6. List of Test Equipment

HC-SR12

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	0.3-40 GHz	2023/10/25	2024/10/24
Pulse Power Sensor	Anritsu	MA2411B	1531043	0.3-40 GHz	2023/10/25	2024/10/24
Signal & Spectrum Analyzer	R&S	FSV40	101869	10Hz-40GHz	2024/06/20	2025/06/19

HC-CB04

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Signal and Spectrum Analyzer	R&S	FSVA40	101435	10 Hz-40 GHz	2024/05/17	2025/05/16
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	1209	30 MHz-2 GHz	2024/06/11	2025/06/10
Double Ridged Horn Antenna	RF SPIN	DRH18-E	211212A18EN	1G-18GHz	2023/11/17	2024/11/16
Horn Antenna	Schwarzbeck	BBHA 9170	203	18G-40GHz	2024/02/02	2025/02/01
Pre-Amplifier	EMCI	EMC01820I	980364	30M-8 GHz,20 dB	2024/06/04	2025/06/03
Pre-Amplifier	EMEC	EM01G18GA	060835	1-18 GHz,50 dB	2024/07/16	2025/07/15
Pre-Amplifier	DEKRA	AP-400C	201801231	18G-40 GHz,48 dB	2023/10/03	2024/10/02
EMI Test Receiver	R&S	ESR7	102260	10 Hz-7 GHz	2023/11/27	2024/11/26
Magnetic Loop Antenna	Teseq	HLA 6121	44287	0.01-30 MHz	2023/10/13	2024/10/12
Coaxial Cable(11m)	Suhner	SF102_SF104	HC-CB04	30M-18 GHz	2023/08/08	2024/08/07
Coaxial Cable(11m)	Suhner	SF102_SF104	HC-CB04	30M-18 GHz	2024/08/07	2025/08/06
Coaxial Cable(3m)	Suhner,Rosnol	SF102_UP0264	HC-CB04-1	18G-40 GHz	2023/08/14	2024/08/13
Coaxial Cable(3m)	Suhner,Rosnol	SF102_UP0264	HC-CB04-1	18G-40 GHz	2024/08/13	2025/08/12
Radiated Software	Audix	e3 V9	HC-CB04_1	N/A	N/A	N/A

HC-CB02

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	10 Hz-40 GHz	2023/10/03	2024/10/02
EXA Signal Analyzer	Keysight	N9010A	MY51440132	10 Hz-44 GHz	2023/12/11	2024/12/10
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	1272	30 MHz-2 GHz	2024/04/29	2025/04/28
Horn Antenna	Schwarzbeck	BBHA 9170	203	18G-40GHz	2024/02/02	2025/02/01
Pre-Amplifier	EMCI	EMC01820I	980365	30M-8 GHz,20 dB	2024/04/02	2025/04/01
Pre-Amplifier	EMEC	EM01G18GA	060741	1G-18 GHz,50 dB	2024/04/23	2025/04/22
Pre-Amplifier	DEKRA	AP-400C	201801231	18G-40 GHz,48 dB	2023/10/03	2024/10/02
Radio Communication Tester	Anritsu	MT8821C	6261915489	LTE & Cat.M1 & NB-IOT	2023/10/30	2024/10/29
Coaxial Cable(13m)	Suhner	SF104	HC-CB02	30M-18 GHz	2024/08/07	2025/08/06
Coaxial Cable(3m)	Suhner,Rosnol	SF102_UP0264	HC-CB02-1	18G-40 GHz 3 m	2023/08/14	2024/08/13
Coaxial Cable(3m)	Suhner,Rosnol	SF102_UP0264	HC-CB02-1	18G-40 GHz 3 m	2024/08/13	2025/08/12
Radiated Software	Audix	e3 V9	HC-CB02_1	N/A	N/A	N/A

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2. Test Configuration of EUT

2.1. Test Condition

EUT Operational Condition	
Testing Voltage	DC 12V

2.2. Test Frequency Mode

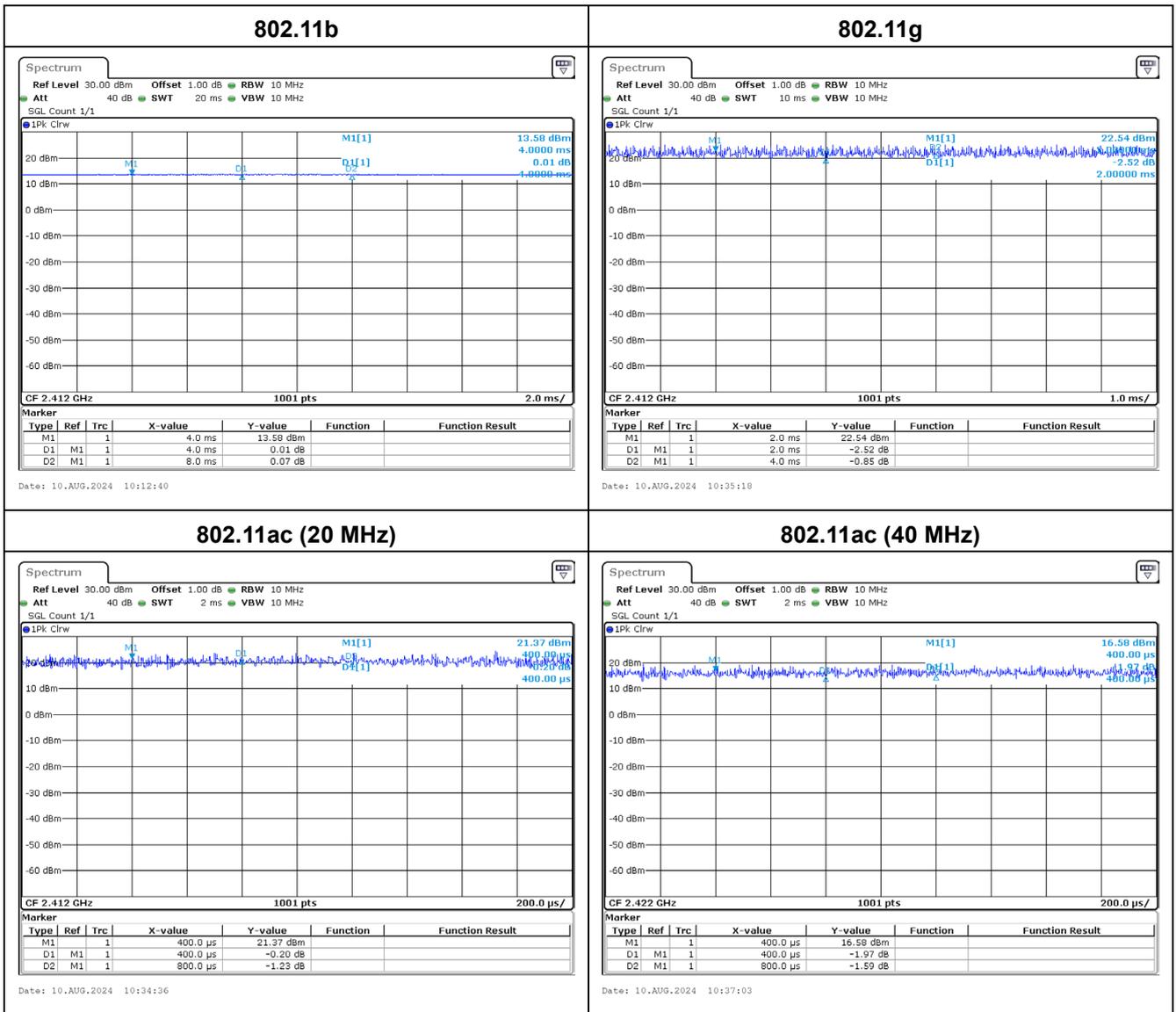
Test Software	DutApiSisoACDualIf
---------------	--------------------

Modulation	Frequency (MHz)	Power Setting
802.11b	2412	12.0
	2437	10.0
	2462	9.0
802.11g	2412	17.0
	2437	20.0
	2462	17.0
802.11ac (20 MHz)	2412	17.0
	2437	20.0
	2462	17.0
802.11ac (40 MHz)	2422	16.0
	2437	19.0
	2452	18.0

2.3. Duty Cycle

Modulation	On Times (ms)	On+Off Times (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11b	-	-	100.00	0.000	0.010
802.11g	-	-	100.00	0.000	0.010
802.11ac (20 MHz)	-	-	100.00	0.000	0.010
802.11ac (40 MHz)	-	-	100.00	0.000	0.010

Note: The duty factor will compensation encompasses for the total power spectral density.



2.4. The Worst Case Measurement Configuration

Tests Item	Occupied Bandwidth & DTS Bandwidth Maximum Conducted Output Power Maximum Power Spectral Density Antenna Port Conducted Emission
Test Condition	Conducted measurement at transmit chains

Tests Item	Transmitter Radiated Spurious Emission
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Transmit
Operating Mode > 1GHz	Transmit
The EUT was performed at X axis, Y axis and Z axis position for radiated spurious emission test. The worst case was found at Z axis, so the measurement will follow this same test configuration.	

Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Transmit
1	WWAN LTE + WiFi 2.4 GHz
2	WWAN LTE + WiFi 5 GHz
3	WWAN LTE + Bluetooth
Refer to Appendix F for Radiated Emission Co-location.	

Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	Transmit
1	WWAN LTE + WiFi 2.4 GHz
2	WWAN LTE + WiFi 5 GHz
3	WWAN LTE + Bluetooth
Refer to DEKRA Test Report No.: 2570523R-RFNAV02S-M for Co-location RF Exposure Evaluation.	

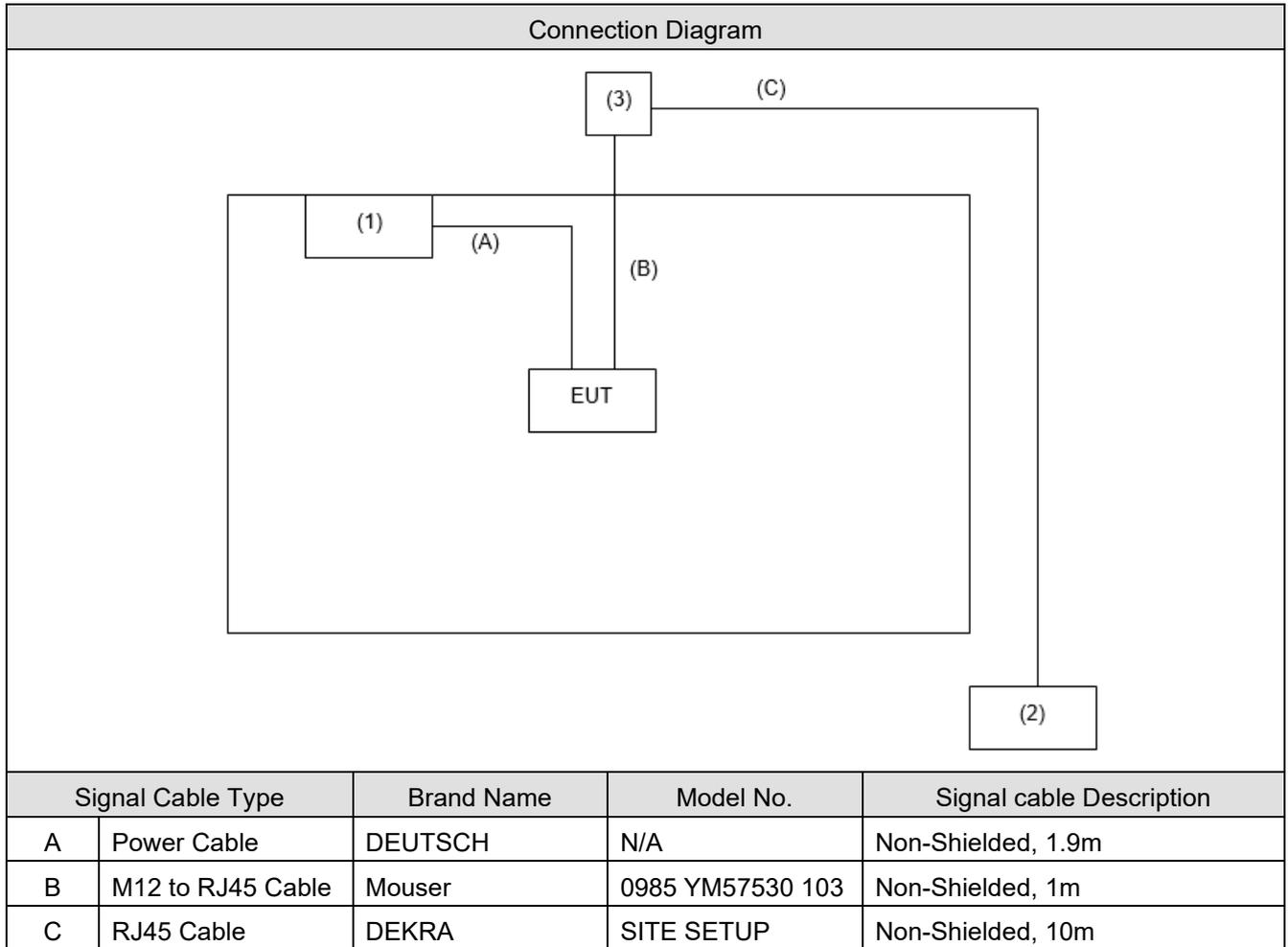
Note:

- Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- The modulation and bandwidth are similar for 802.11n mode for HT20/HT40, VHT mode for VHT20/VHT40, therefore investigated worst case to representative mode in test report.

2.5. Tested System Details

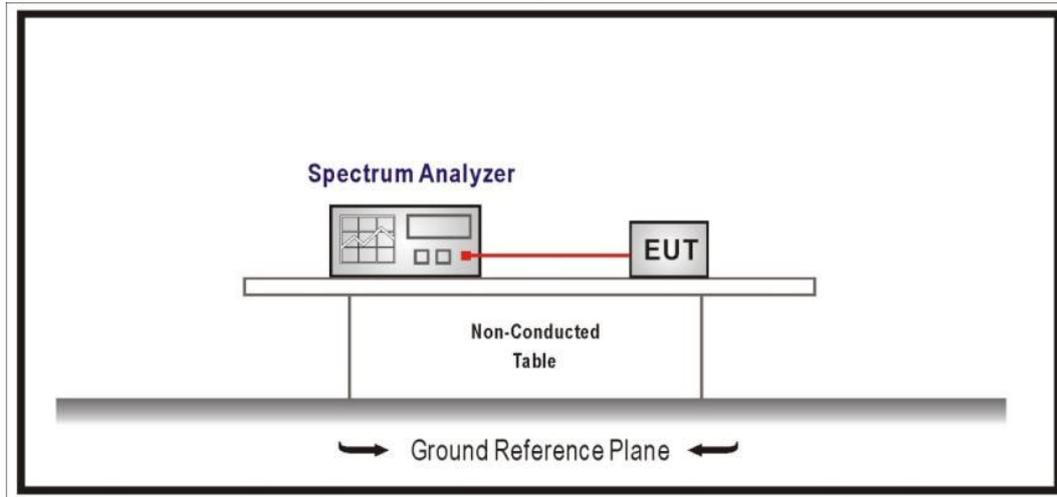
No.	Equipment	Brand Name	Model No.	Serial No.
1	DC Power supply	Topward	6303D	809497
2	Notebook	Lenovo	80T7	PF0MEEB0
3	Network cable connector	DEKRA	Z7	N/A

2.6. Configuration of Tested System



3. Occupied Bandwidth & DTS Bandwidth

3.1. Test Setup



3.2. Test Limit

The 6 dB bandwidth: ≥ 0.50 MHz.

Occupied Bandwidth: N/A

3.3. Test Procedures

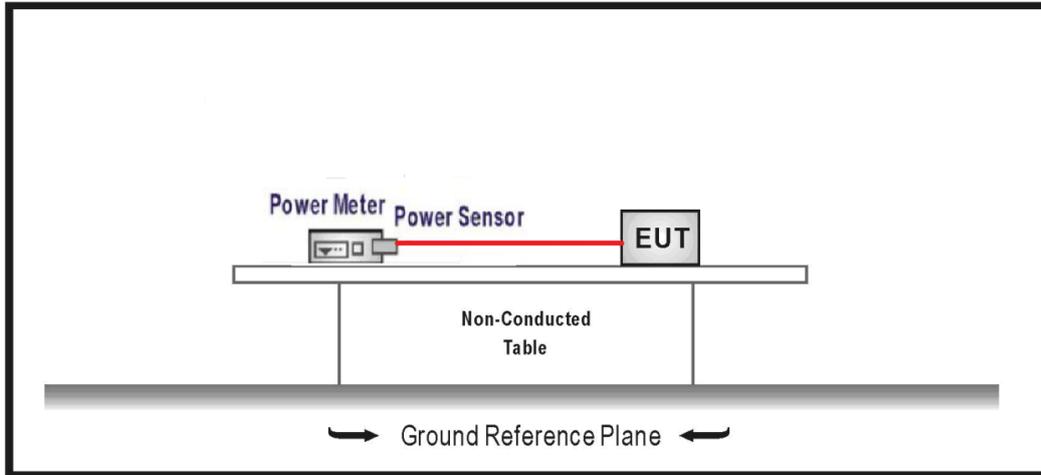
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

3.4. Test Result of Occupied Bandwidth & DTS Bandwidth

Refer as Appendix A

4. Maximum Conducted Output Power

4.1. Test Setup



4.2. Test Limit

The maximum conducted output power shall be less 30 dBm (1 Watt).

4.3. Test Procedures

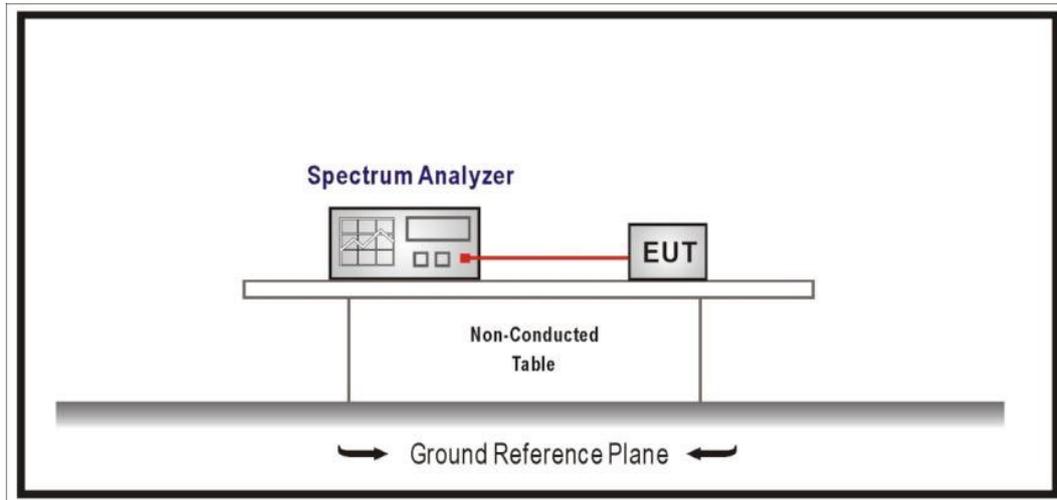
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

4.4. Test Result of Maximum Conducted Output Power

Refer as Appendix B

5. Maximum Power Spectral Density

5.1. Test Setup



5.2. Test Limit

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8 dBm in any 3 kHz band during any time interval of continuous transmission.

5.3. Test Procedures

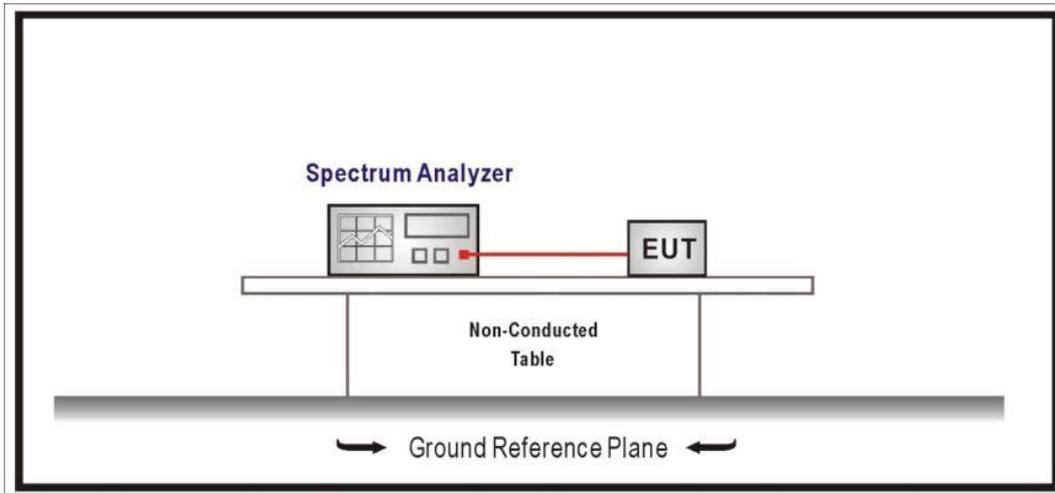
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

5.4. Test Result of Maximum Power Spectral Density

Refer as Appendix C

6. Antenna Port Conducted Emission

6.1. Test Setup



6.2. Test Limit

RF output power procedure	Limit (dBc)
Peak output power procedure	20
Average output power procedure	30

Remarks:

1. In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limit.
2. If the transmitter complies with the conducted power limit based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

6.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB 558074.

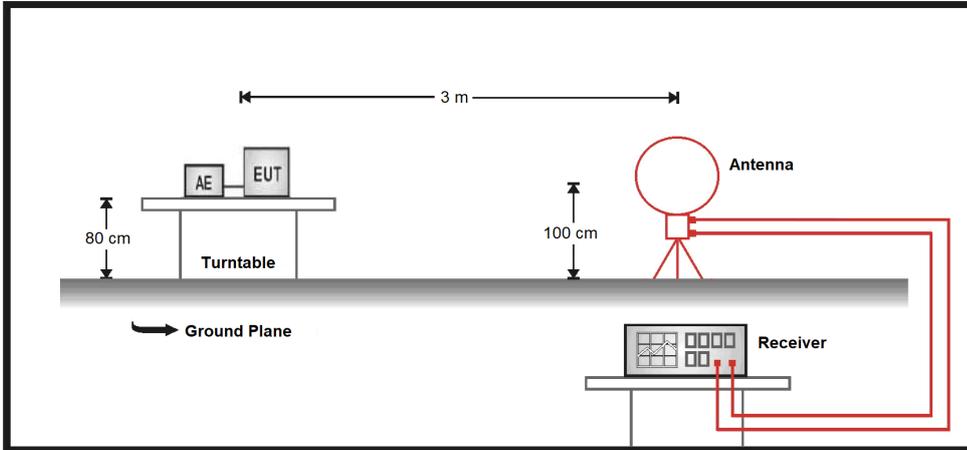
6.4. Test Result of Antenna Port Conducted Emission

Refer as Appendix D

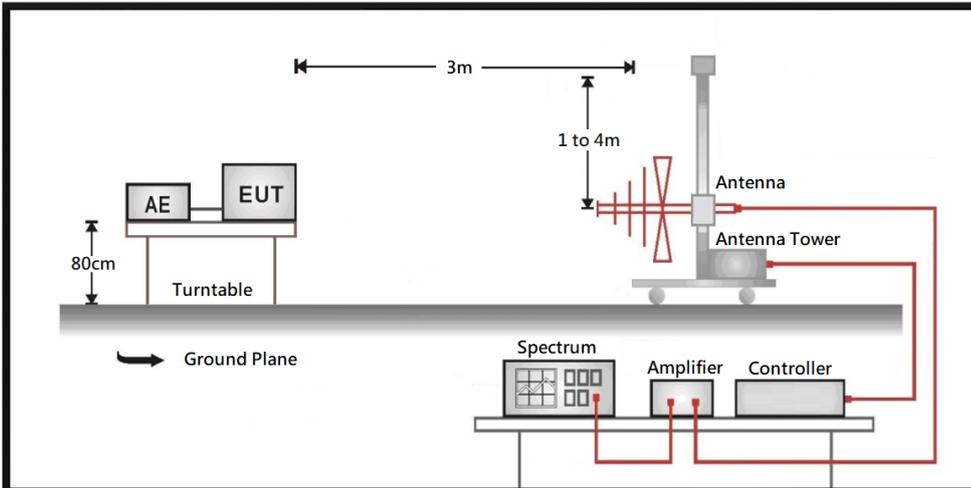
7. Transmitter Radiated Spurious Emission

7.1. Test Setup

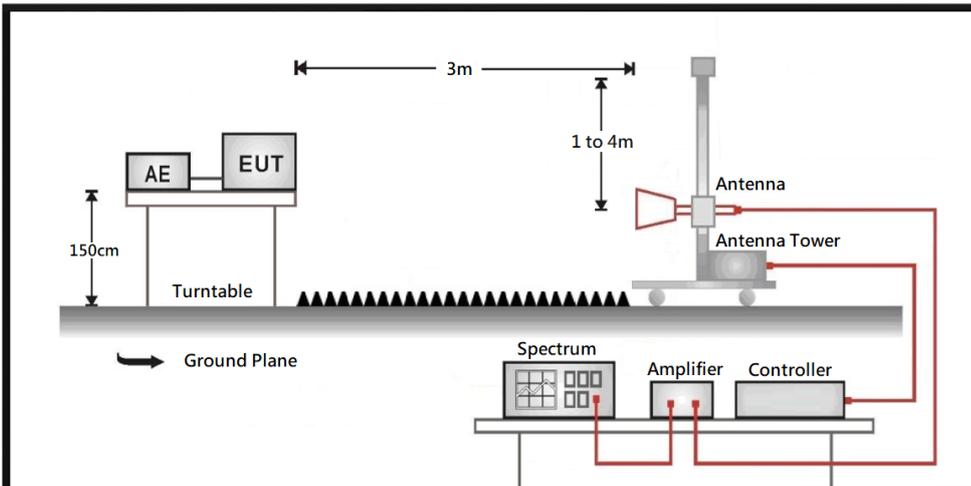
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



7.2. Test Limit

Frequency (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
0.009 – 0.490	2400/F(kHz)	20 log (2400/F(kHz))	300
0.490 – 1.705	24000/F(kHz)	20 log (24000/F(kHz))	30
1.705 - 30	30	29.5	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Remarks:

1. Field strength (dBuV/m) = 20 log Field strength (uV/m)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

7.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB 558074.

The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

On any frequency or frequencies from 9 kHz(include The the lowest oscillator frequency generated within the device up to the 10th harmonic) to 1000 MHz, the limit shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limit shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

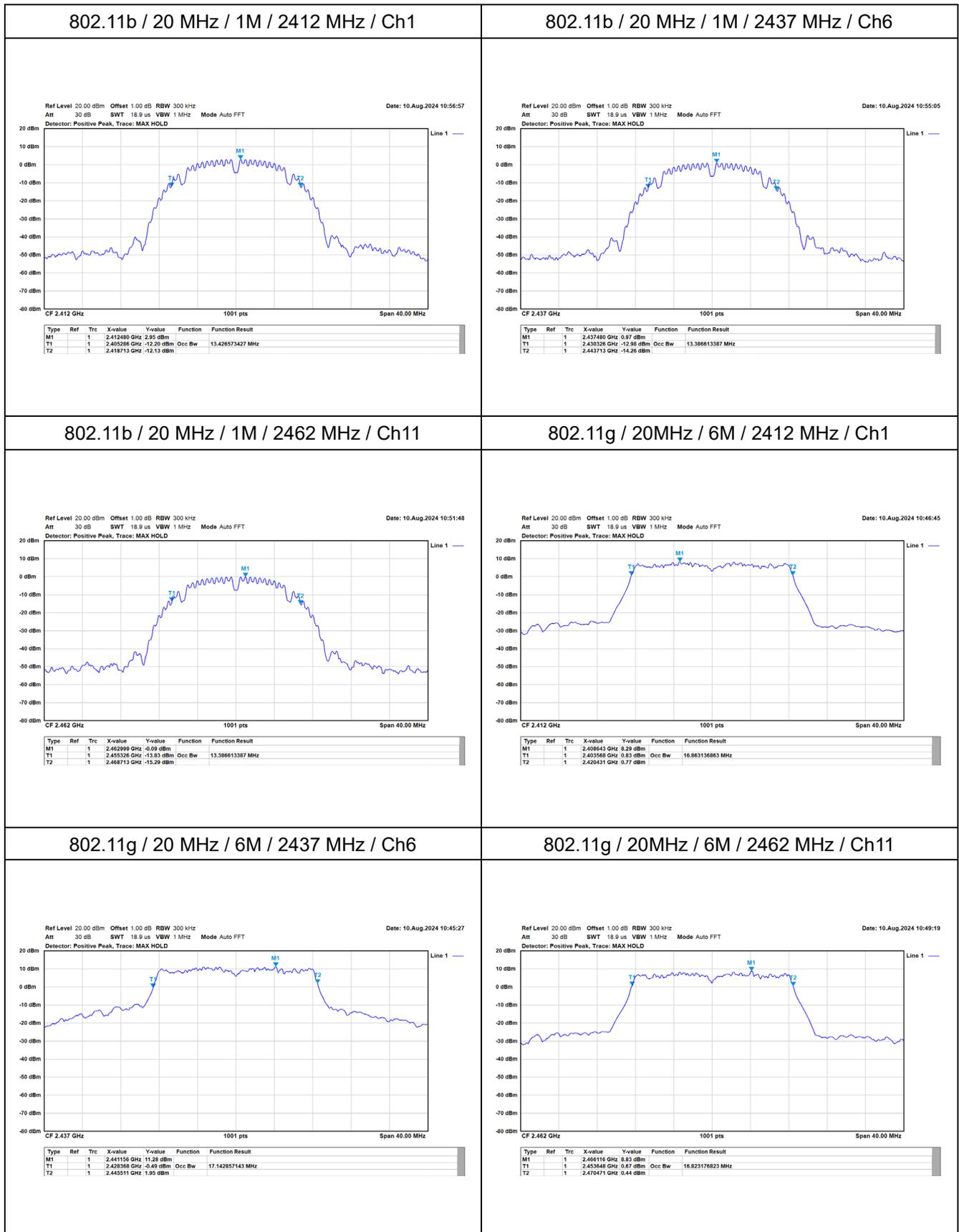
The bandwidth below 1 GHz setting on the field strength meter is 120 kHz and above 1 GHz is 1 MHz.

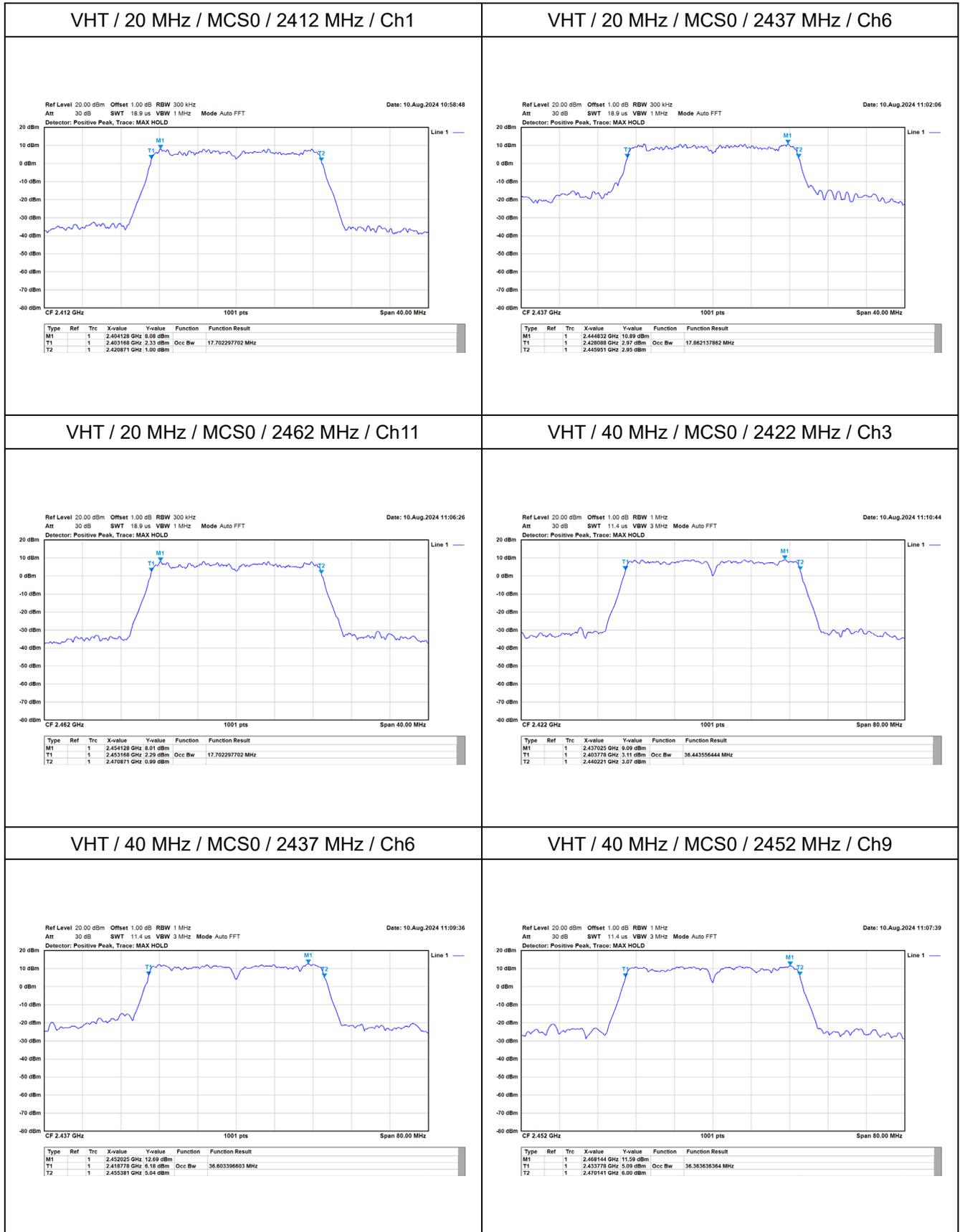
7.4. Test Result of Transmitter Radiated Spurious Emission

Refer as Appendix E

Appendix A.1 Test Result of Occupied Bandwidth

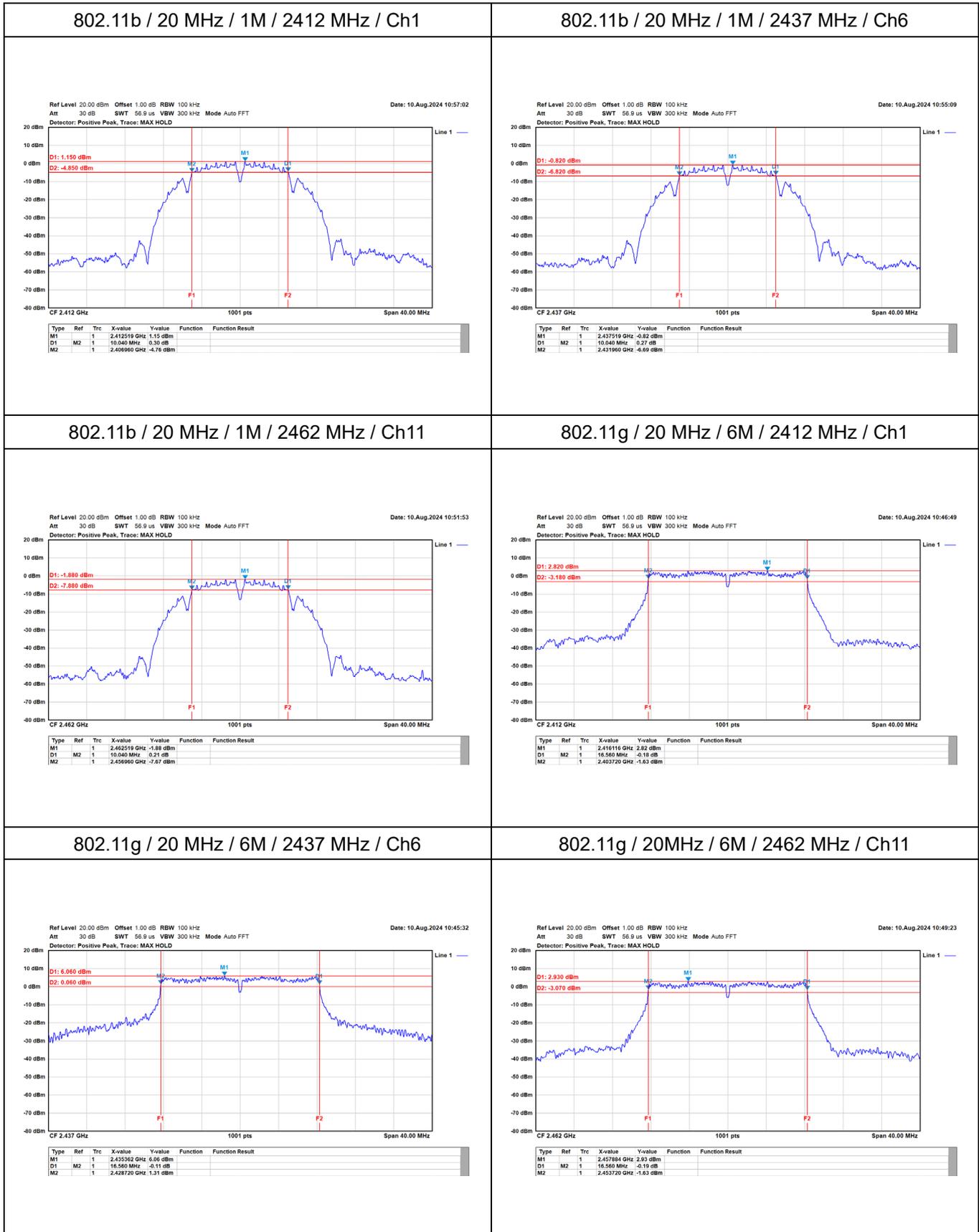
Modulation	Frequency (MHz)	Occupied Bandwidth (MHz)	Limit (MHz)
802.11b	2412	13.43	-
	2437	13.39	-
	2462	13.39	-
802.11g	2412	16.86	-
	2437	17.14	-
	2462	16.82	-
VHT (20 MHz)	2412	17.70	-
	2437	17.86	-
	2462	17.70	-
VHT (40 MHz)	2422	36.44	-
	2437	36.60	-
	2452	36.36	-

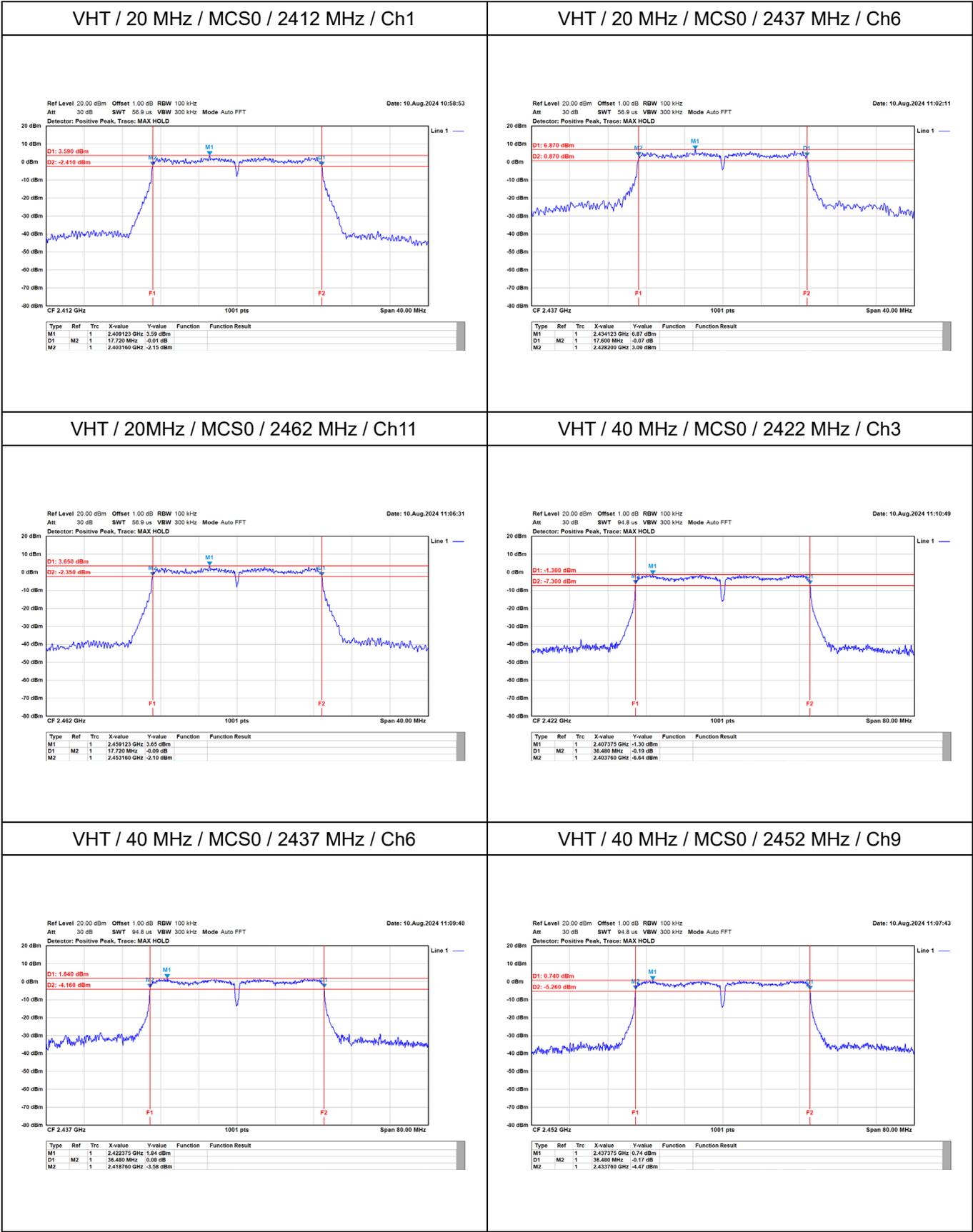




Appendix A.2 Test Result of DTS Bandwidth

Modulation	Frequency (MHz)	DTS Bandwidth (MHz)	Limit (MHz)	Result
802.11b	2412	10.04	0.50	Pass
	2437	10.04	0.50	Pass
	2462	10.04	0.50	Pass
802.11g	2412	16.56	0.50	Pass
	2437	16.56	0.50	Pass
	2462	16.56	0.50	Pass
VHT (20 MHz)	2412	17.72	0.50	Pass
	2437	17.60	0.50	Pass
	2462	17.72	0.50	Pass
VHT (40 MHz)	2422	36.48	0.50	Pass
	2437	36.48	0.50	Pass
	2452	36.48	0.50	Pass



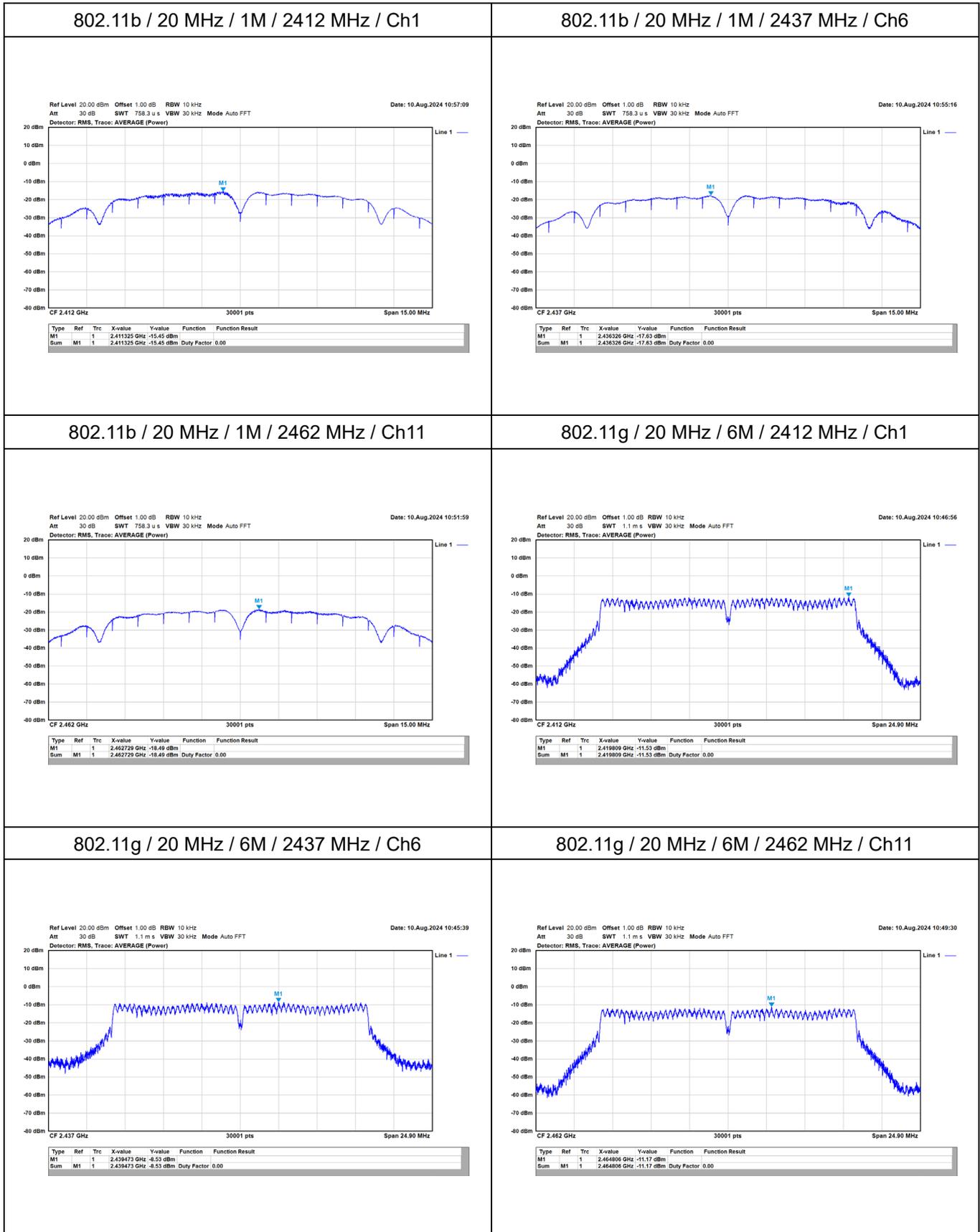


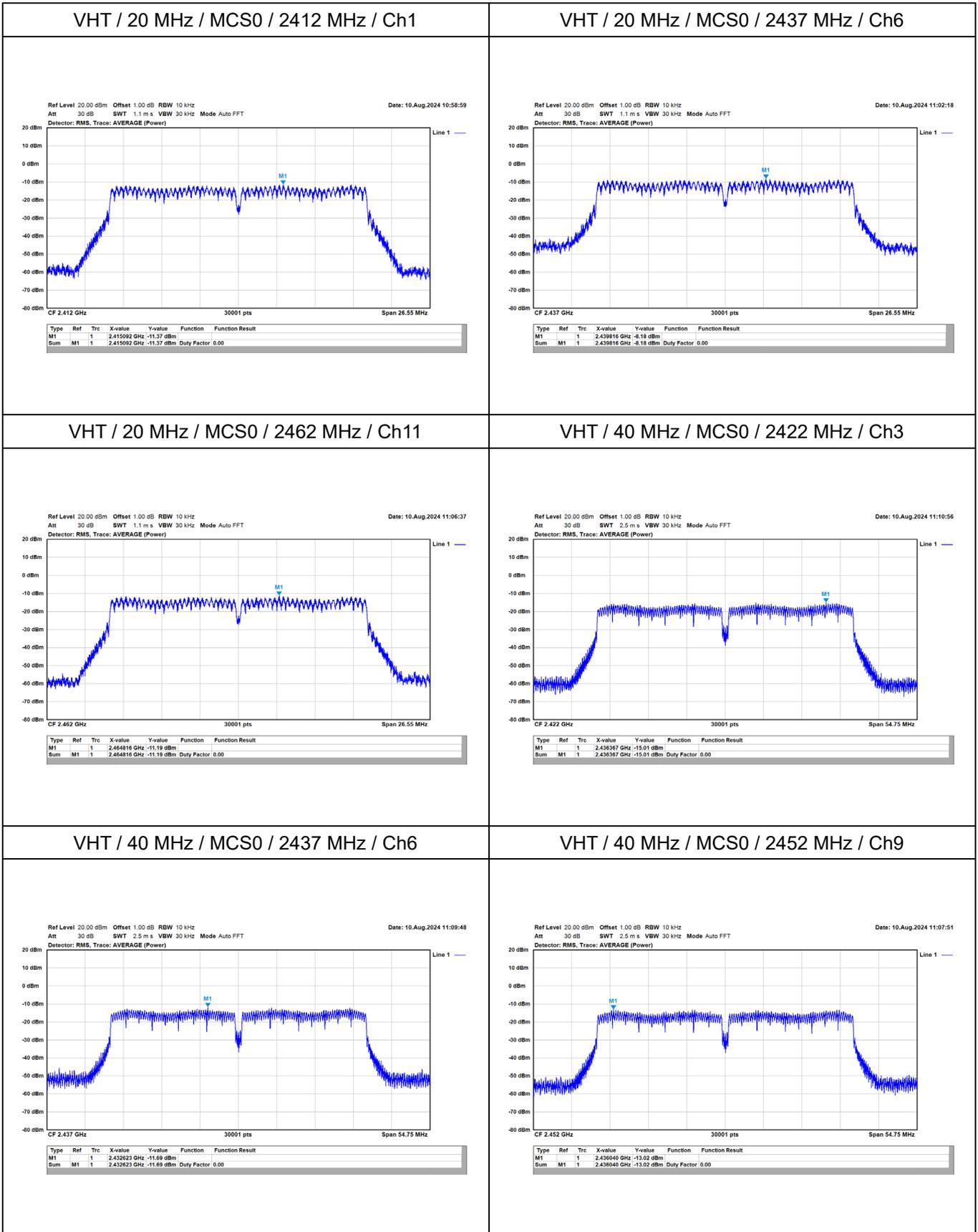
Appendix B. Test Result of Maximum Conducted Output Power

Modulation	Frequency (MHz)	Maximum Conducted Average Output Power (dBm)	Limit (dBm)	Result
802.11b	2412	12.260	30.00	Pass
	2437	10.170	30.00	Pass
	2462	9.270	30.00	Pass
802.11g	2412	17.040	30.00	Pass
	2437	19.980	30.00	Pass
	2462	17.190	30.00	Pass
VHT (20 MHz)	2412	17.240	30.00	Pass
	2437	20.200	30.00	Pass
	2462	17.310	30.00	Pass
VHT (40 MHz)	2422	16.270	30.00	Pass
	2437	19.180	30.00	Pass
	2452	18.260	30.00	Pass

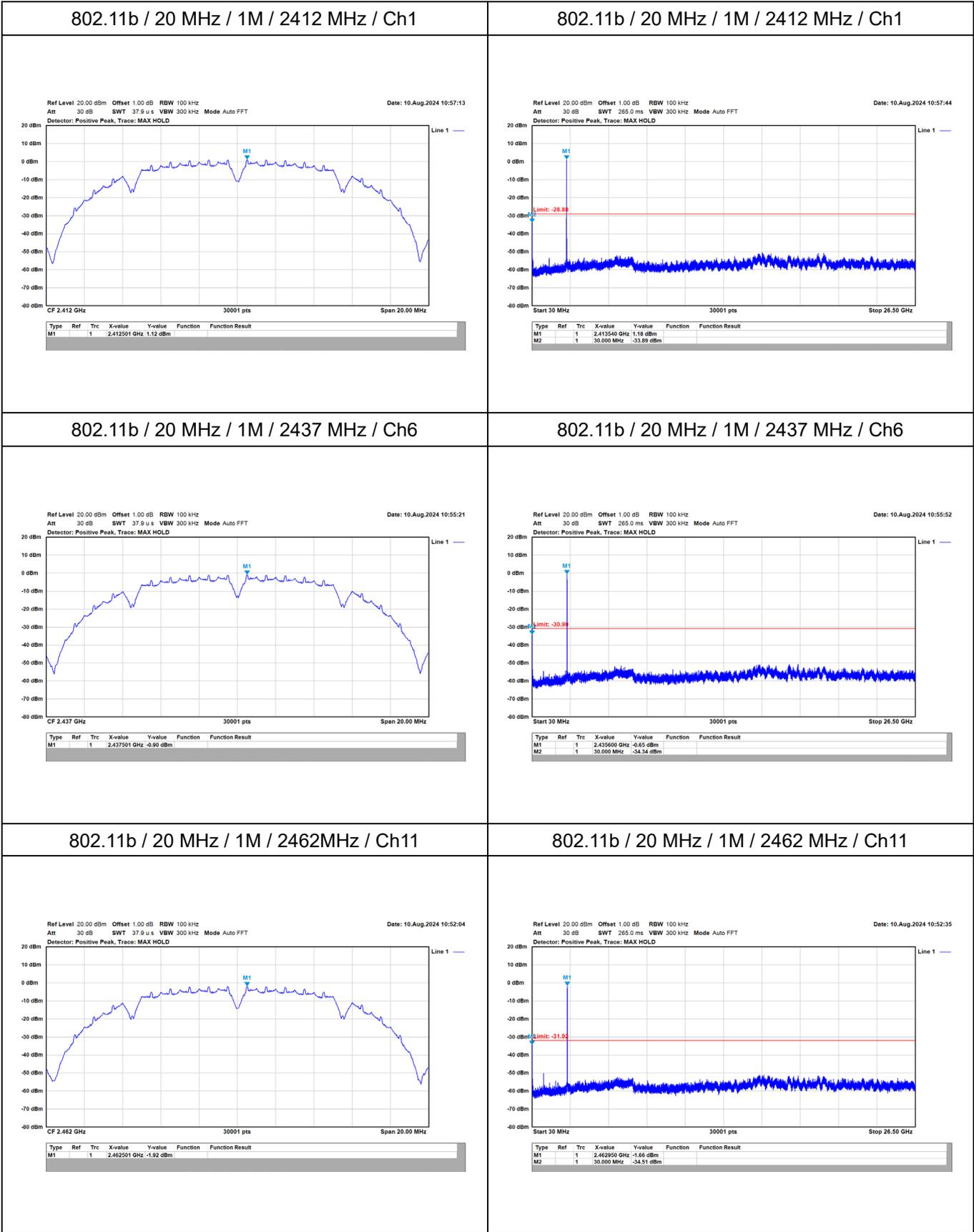
Appendix C. Test Result of Maximum Power Spectral Density

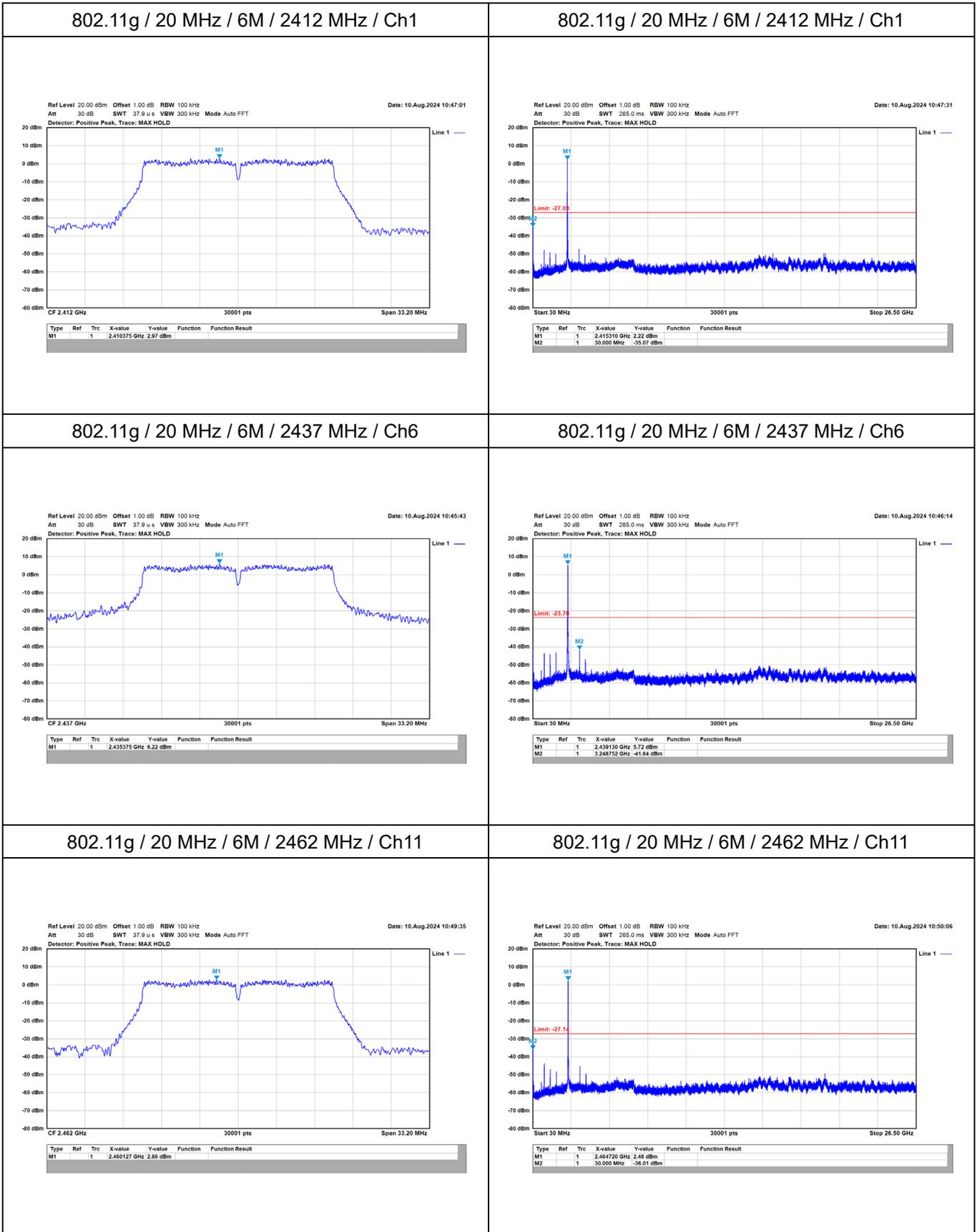
Modulation Frequency (MHz)		Power Spectral Density (dBm/RBW)	Limit (dBm/3kHz)	Result
802.11b	2412	-15.45	8.00	Pass
	2437	-17.63	8.00	Pass
	2462	-18.49	8.00	Pass
802.11g	2412	-11.53	8.00	Pass
	2437	-8.53	8.00	Pass
	2462	-11.17	8.00	Pass
VHT (20 MHz)	2412	-11.37	8.00	Pass
	2437	-8.18	8.00	Pass
	2462	-11.19	8.00	Pass
VHT (40 MHz)	2422	-15.01	8.00	Pass
	2437	-11.69	8.00	Pass
	2452	-13.02	8.00	Pass

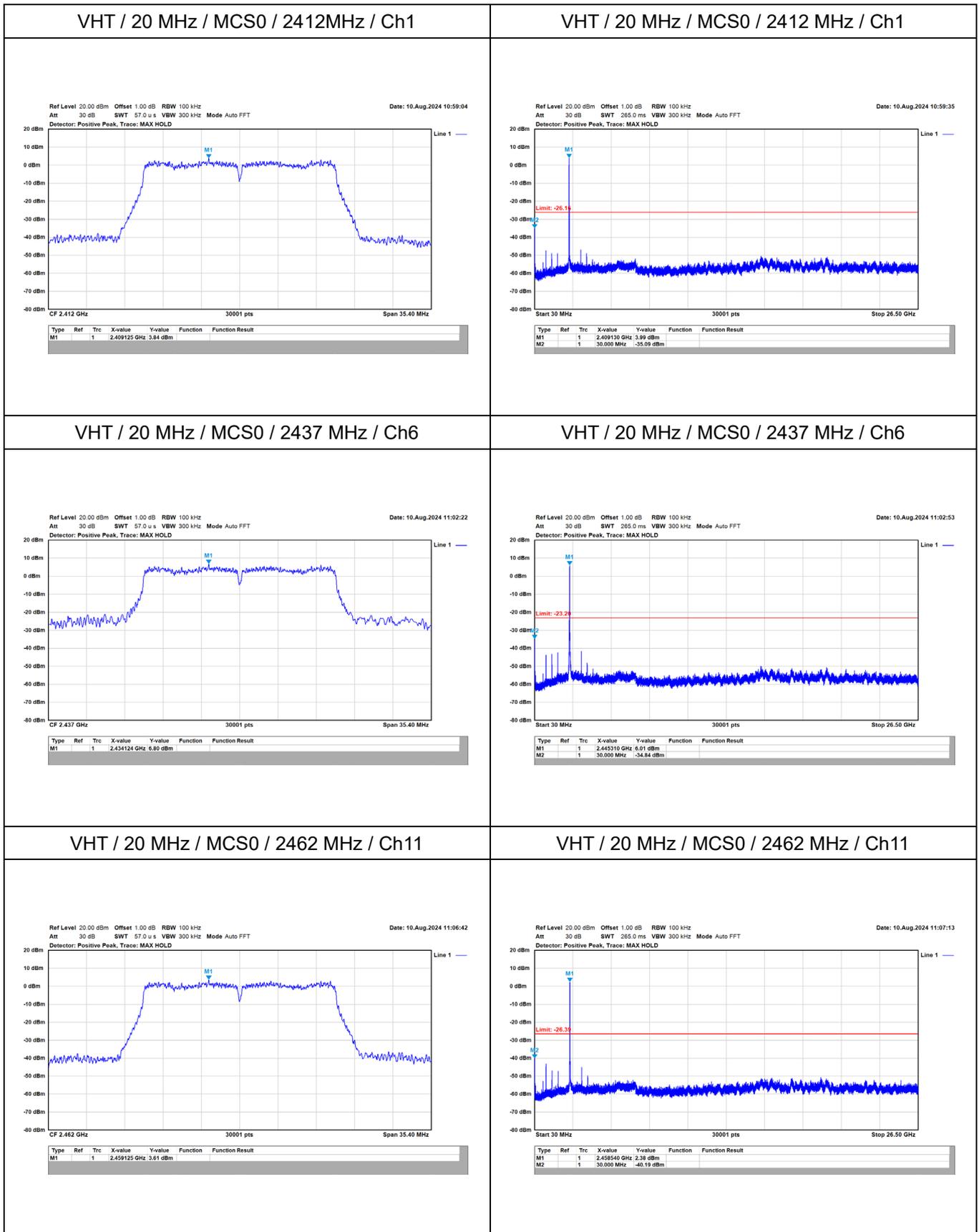


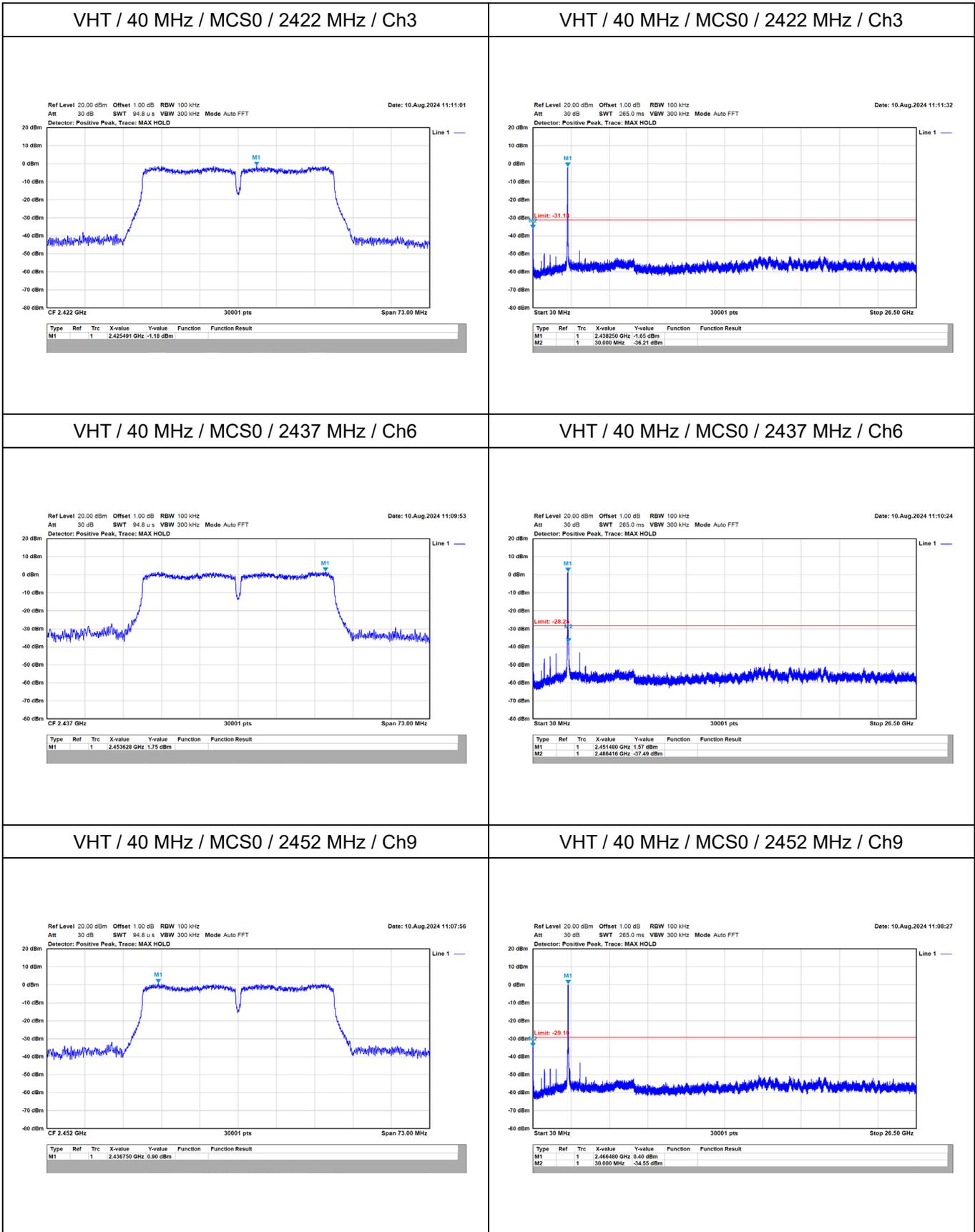


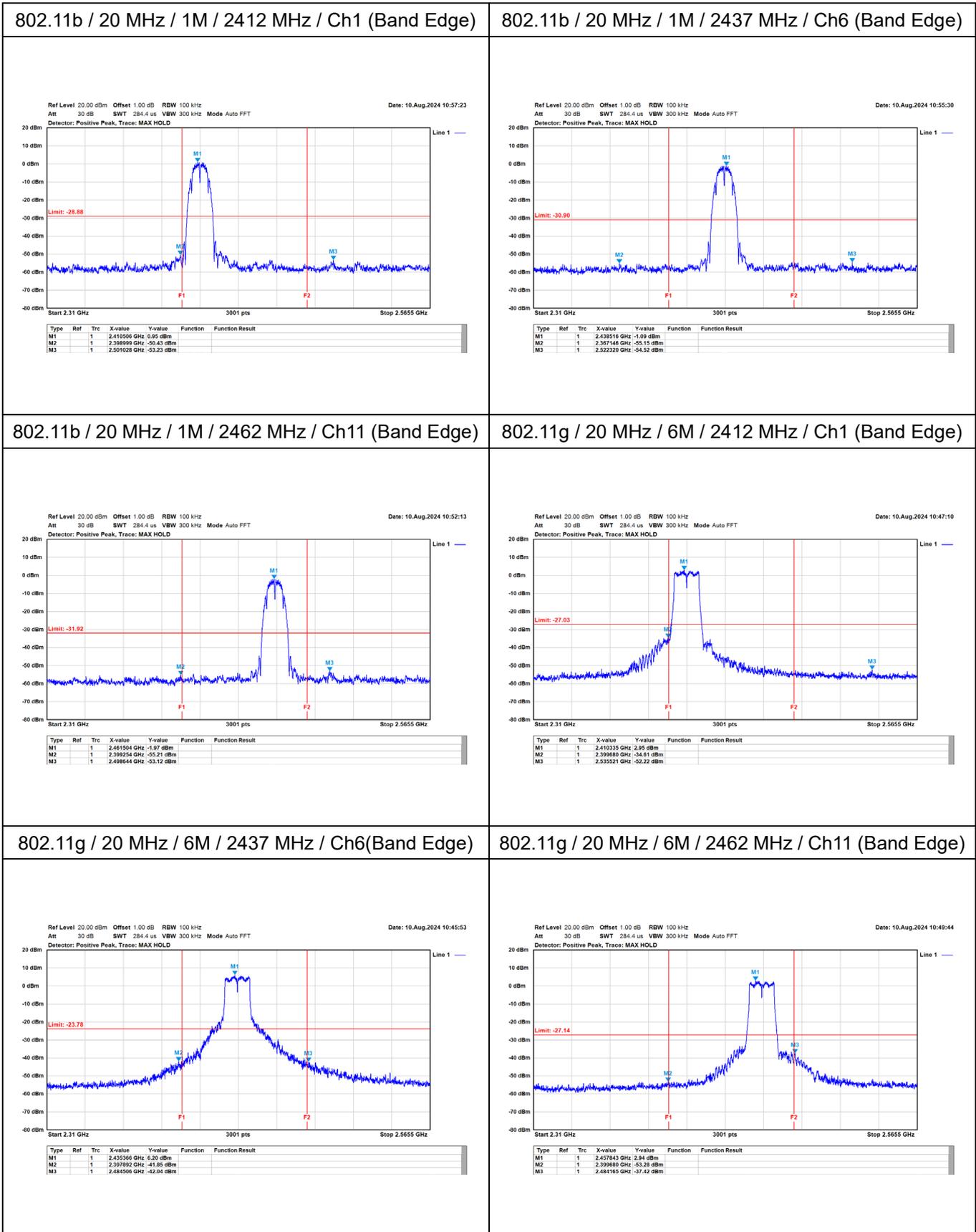
Appendix D. Test Result of Antenna Port Conducted Emission



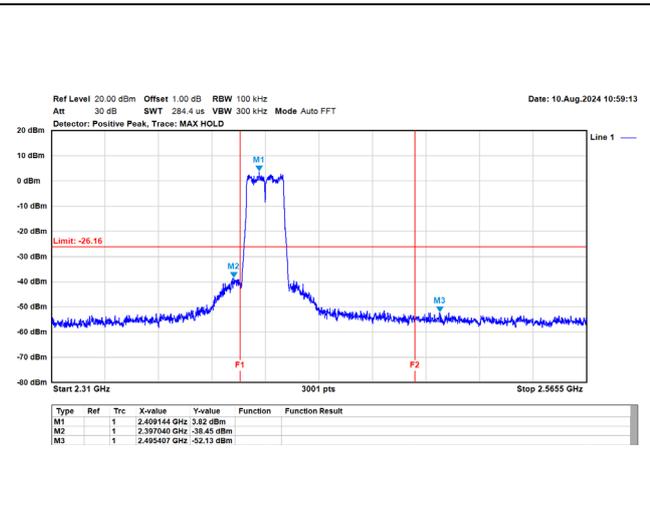




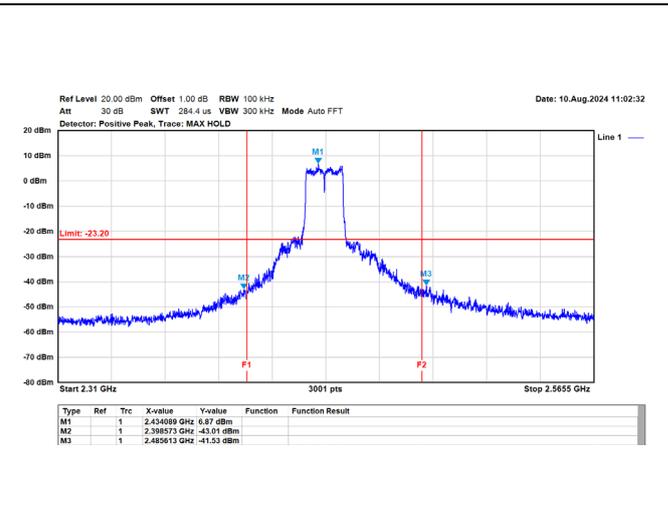




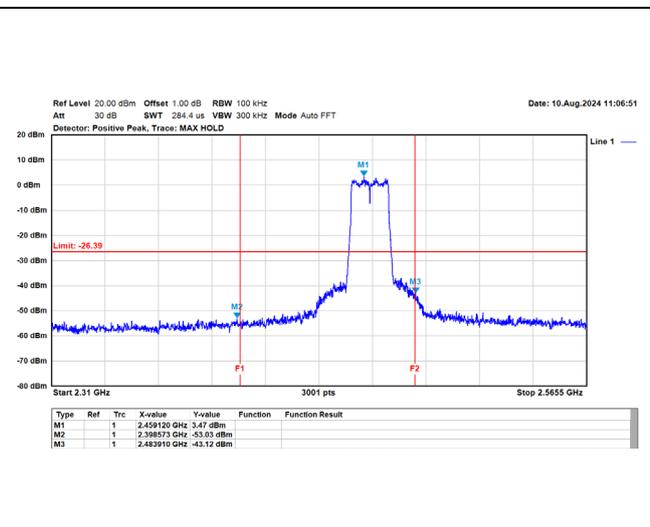
VHT / 20 MHz / MCS0 / 2412 MHz / Ch1 (Band Edge)



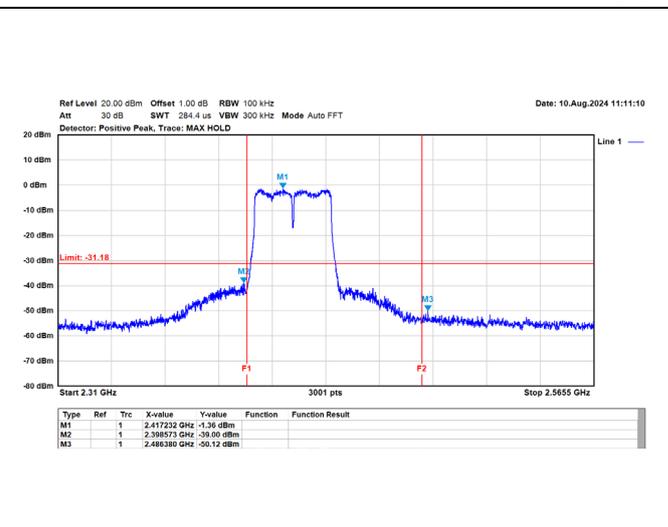
VHT / 20 MHz / MCS0 / 2437 MHz / Ch6 (Band Edge)



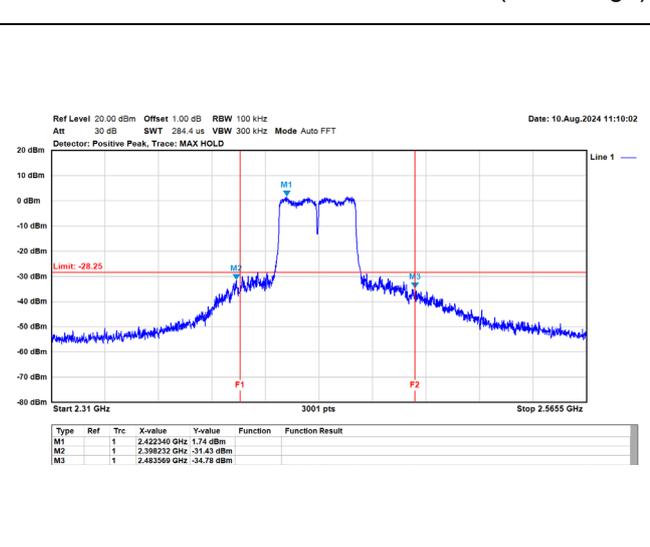
VHT / 20 MHz / MCS0 / 2462 MHz / Ch11 (Band Edge)



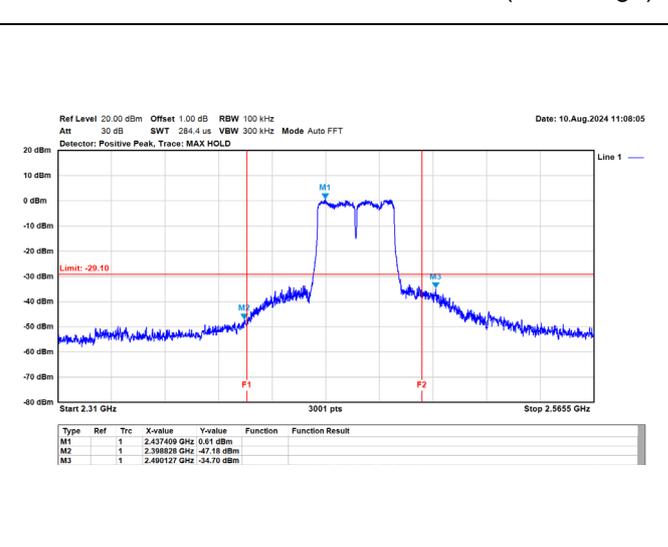
VHT / 40 MHz / MCS0 / 2422MHz / Ch3 (Band Edge)



VHT / 40 MHz / MCS0 / 2437 MHz / Ch6 (Band Edge)



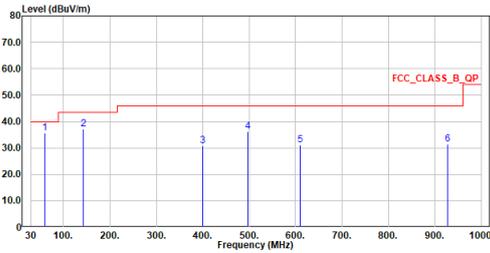
VHT / 40 MHz / MCS0 / 2452 MHz / Ch9 (Band Edge)



Appendix E. Test Result of Transmitter Radiated Spurious Emission

30 MHz ~ 1 GHz

Site :HC-CB04
 Condition :3m Horizontal
 Mode :LF_ac40_TX_2437MHz
 Test By :Ling Chen

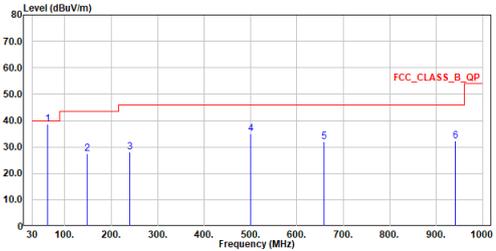


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	59.343	35.49	40.00	-4.51	38.44	-2.95	QP
2	143.296	37.26	43.50	-6.24	40.63	-3.37	QP
3	400.007	30.78	46.00	-15.22	30.92	-0.14	QP
4	497.589	36.23	46.00	-9.77	34.14	2.09	QP
5	609.381	31.23	46.00	-14.77	26.52	4.71	QP
6	927.347	31.32	46.00	-14.68	22.02	9.30	QP

Notes:

- Level = Read Level + Factor
- Factor = Antenna Factor + Cable Loss - Preamp Factor
- Over Limit = Level - Limit Line
- The emission under 30MHz was not included since the emission levels are very low against the limit.
- The other emission levels were very low against the limit.

Site :HC-CB04
 Condition :3m Vertical
 Mode :LF_ac40_TX_2437MHz
 Test By :Ling Chen



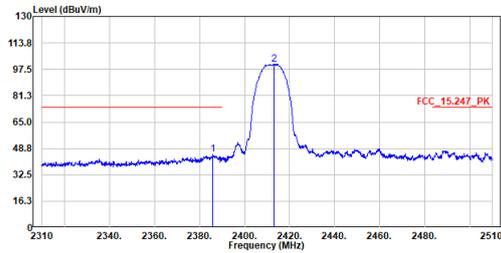
No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	62.883	38.56	40.00	-1.44	42.19	-3.63	QP
2	148.098	27.46	43.50	-16.04	30.66	-3.20	QP
3	239.908	27.95	46.00	-18.05	32.69	-4.74	QP
4	500.014	35.14	46.00	-10.86	33.00	2.14	QP
5	658.415	32.01	46.00	-13.99	26.54	5.47	QP
6	941.267	32.28	46.00	-13.72	22.75	9.53	QP

Note:

- Level = Read Level + Factor
- Factor = Antenna Factor + Cable Loss - Preamp Factor
- Over Limit = Level - Limit Line
- The emission under 30MHz was not included since the emission levels are very low against the limit.
- The other emission levels were very low against the limit.

Above 1 GHz

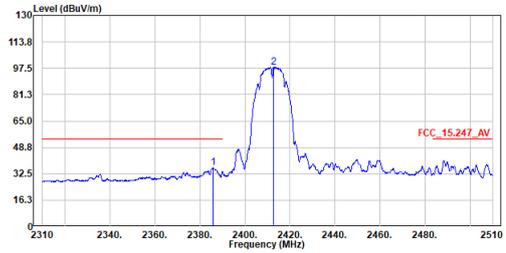
Site :HC-CB04
 Condition :3m ,Horizontal
 Mode :b_TX_2412MHz
 Test By :Cyril Chen



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2386.000	45.00	74.00	-29.00	34.60	10.40	Peak
2	2413.000	100.71	-----	-----	90.24	10.47	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

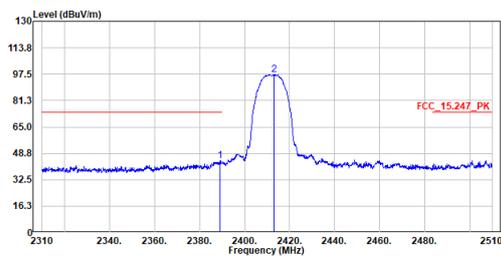
Site :HC-CB04
 Condition :3m ,Horizontal
 Mode :b_TX_2412MHz
 Test By :Cyril Chen



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2385.800	36.13	54.00	-17.87	25.74	10.39	Average
2	2412.800	98.13	-----	-----	87.66	10.47	Average

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

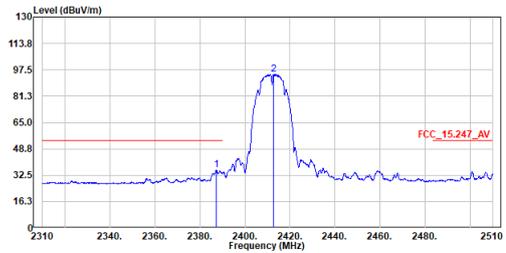
Site :HC-CB04
 Condition :3m ,Vertical
 Mode :b_TX_2412MHz
 Test By :Cyril Chen



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2389.100	44.14	74.00	-29.86	33.74	10.40	Peak
2	2413.000	97.28	-----	-----	86.81	10.47	Peak

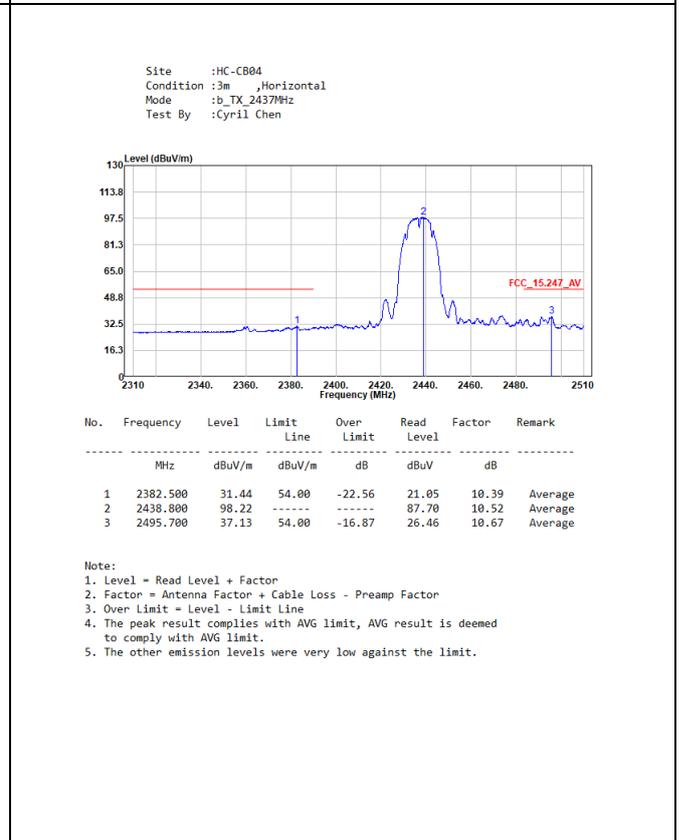
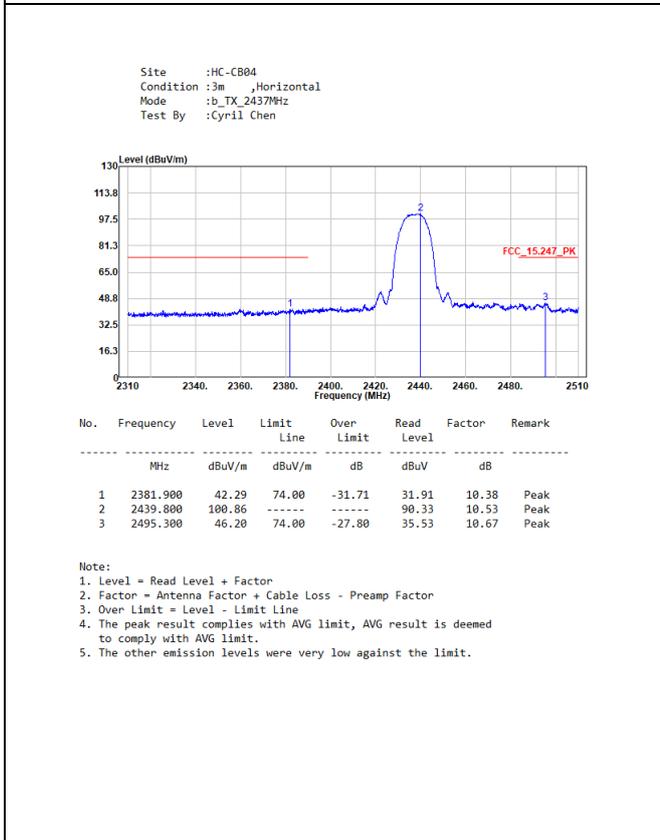
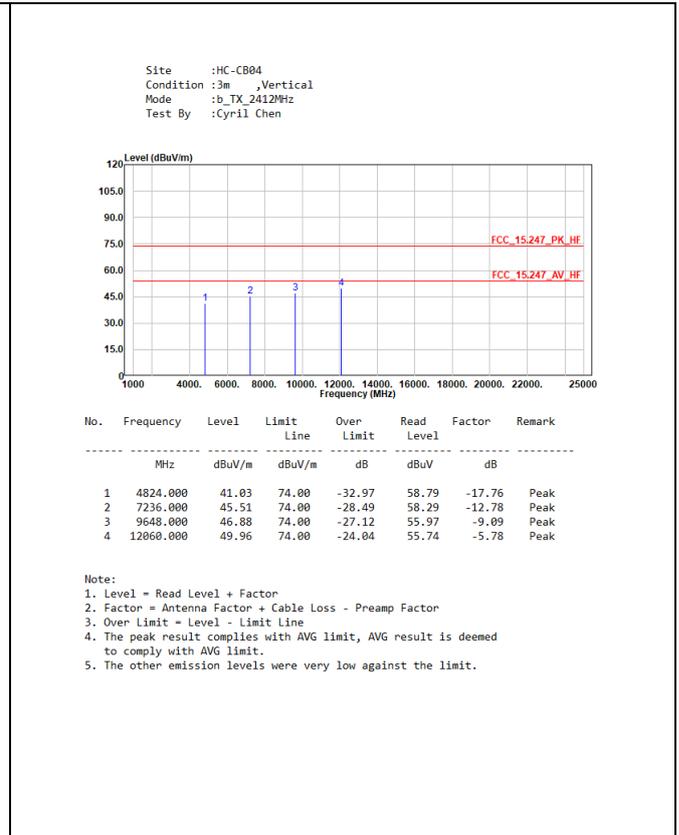
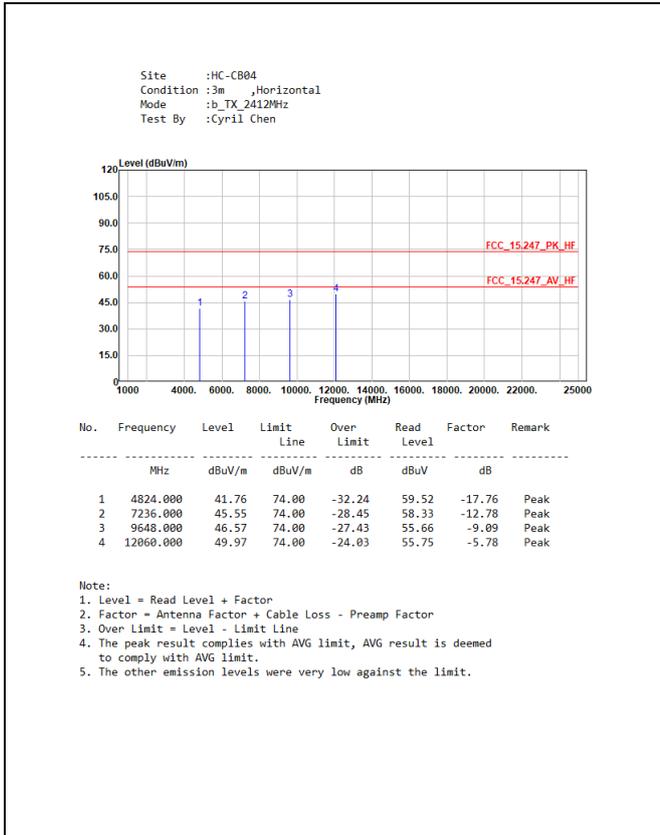
Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

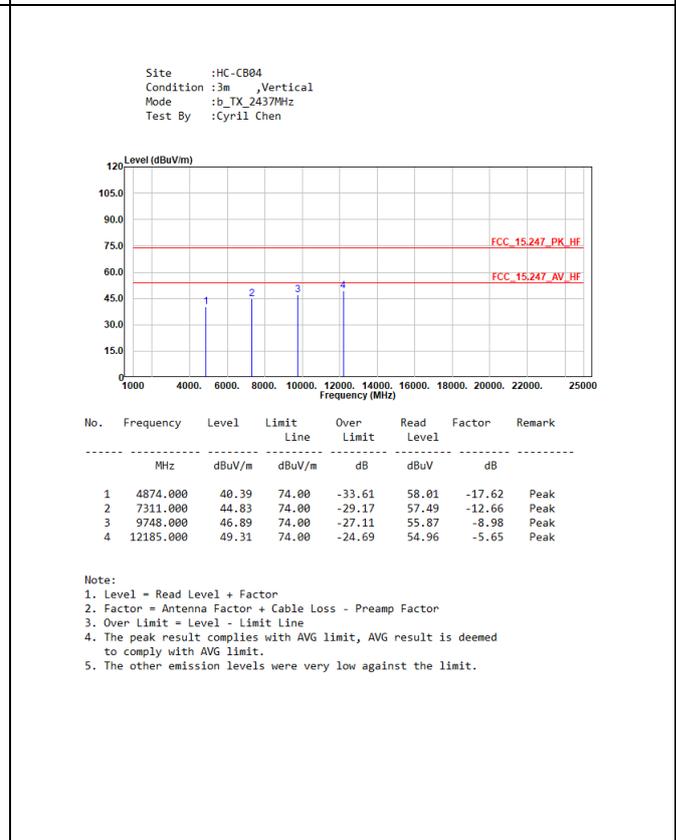
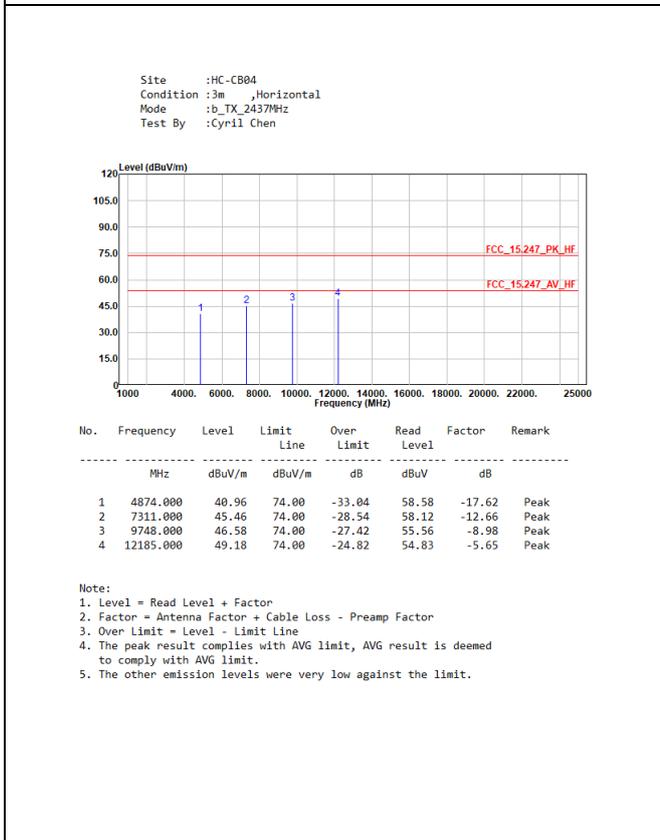
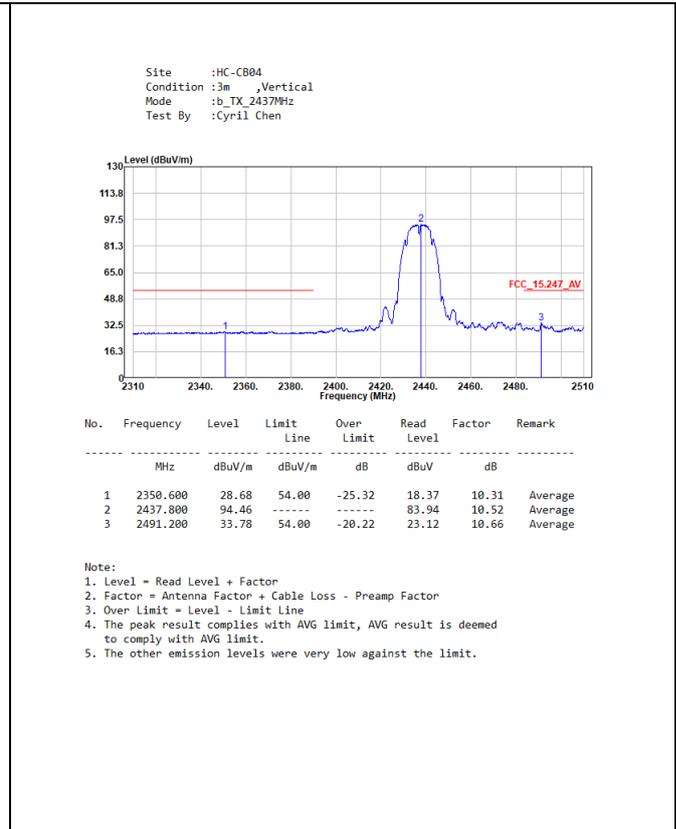
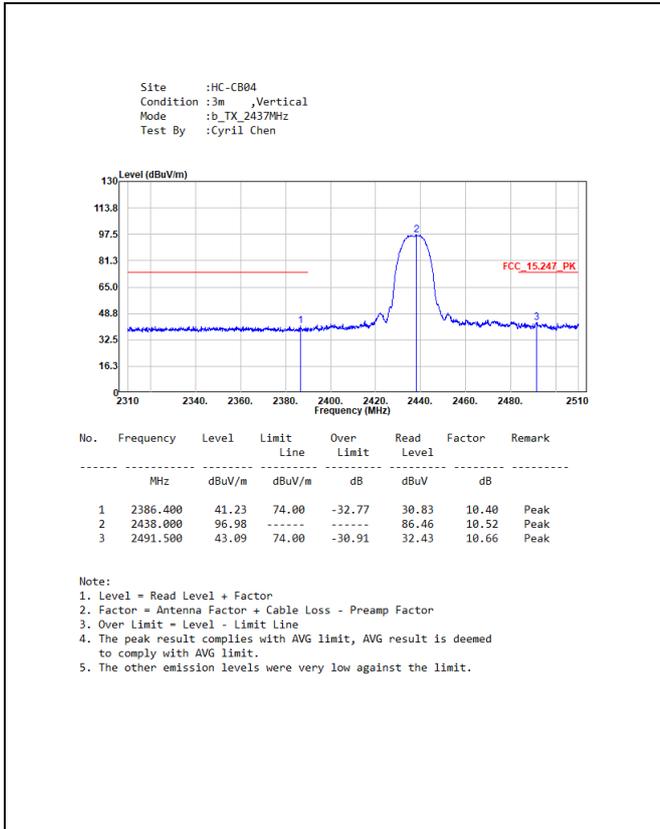
Site :HC-CB04
 Condition :3m ,Vertical
 Mode :b_TX_2412MHz
 Test By :Cyril Chen

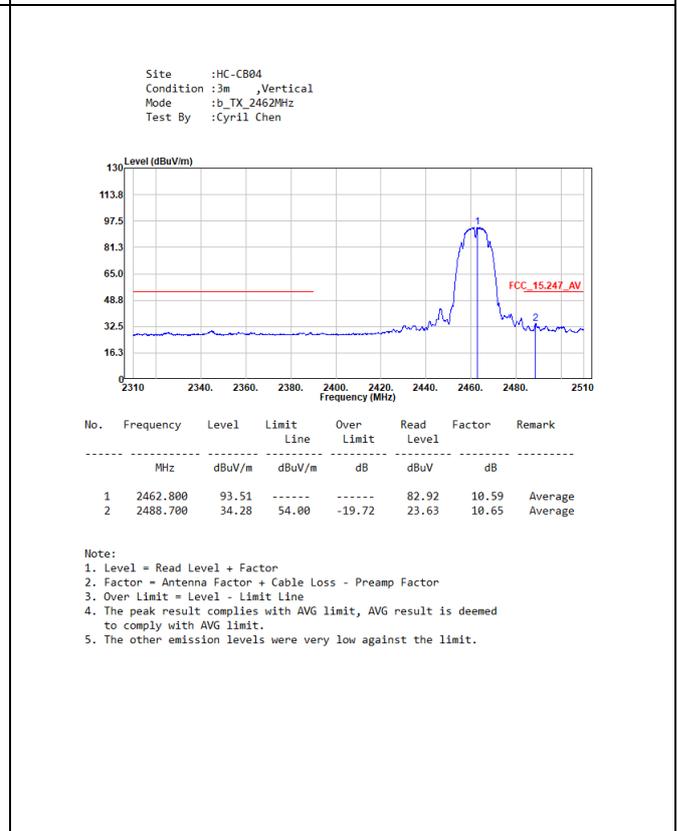
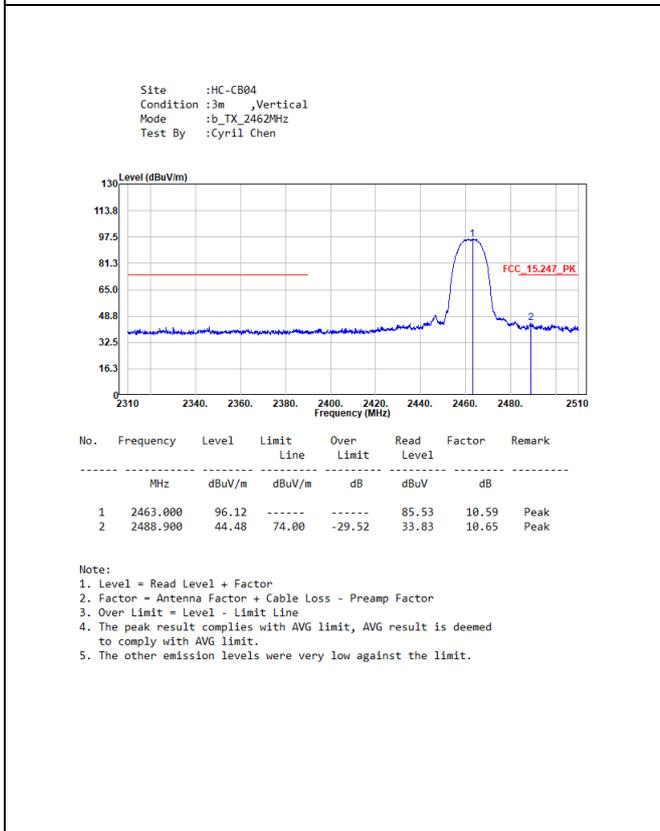
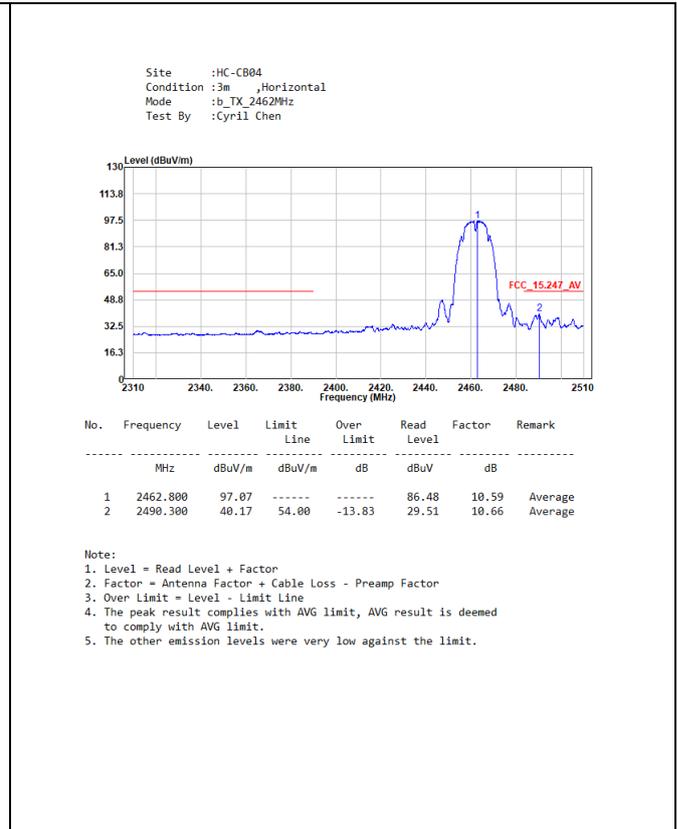
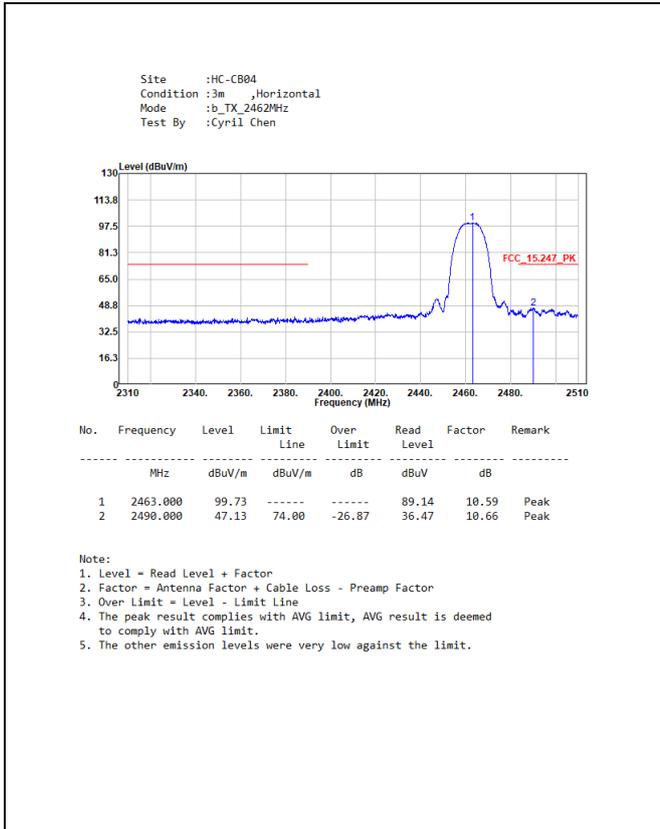


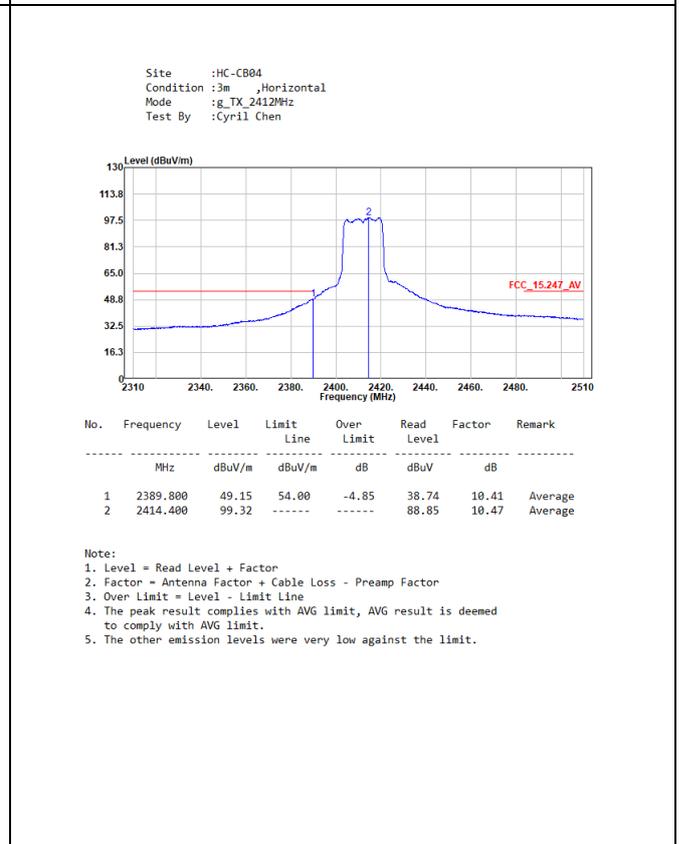
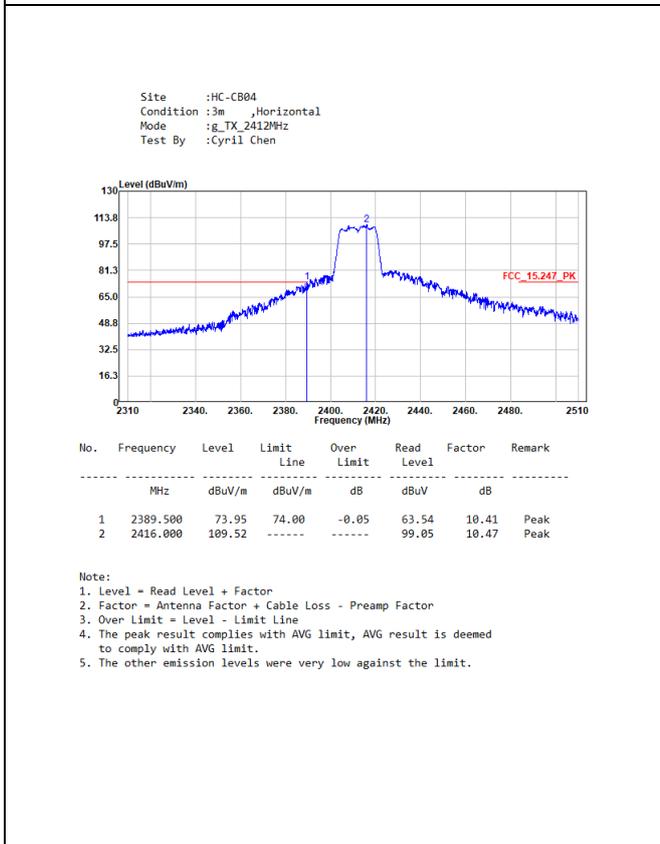
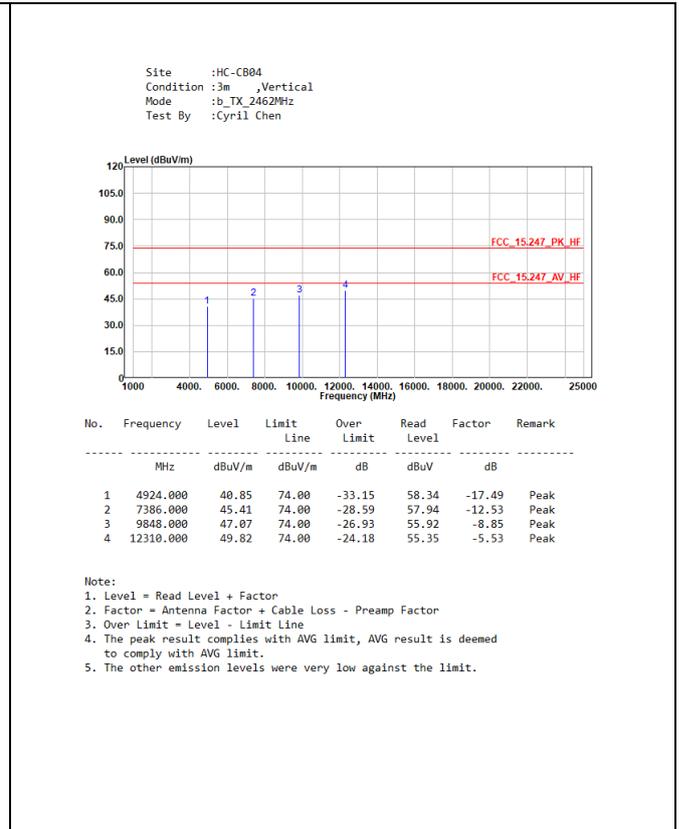
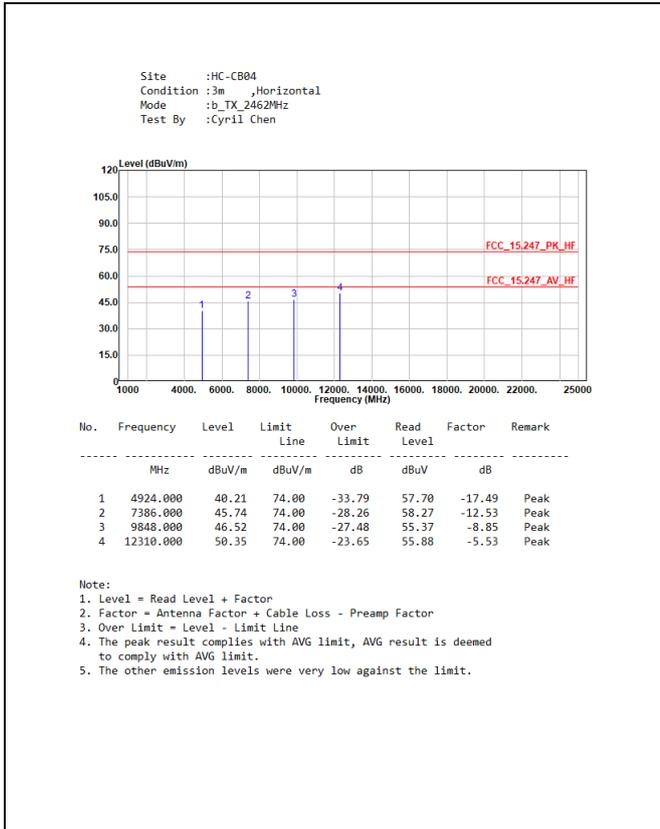
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2387.200	35.71	54.00	-18.29	25.31	10.40	Average
2	2412.700	94.69	-----	-----	84.22	10.47	Average

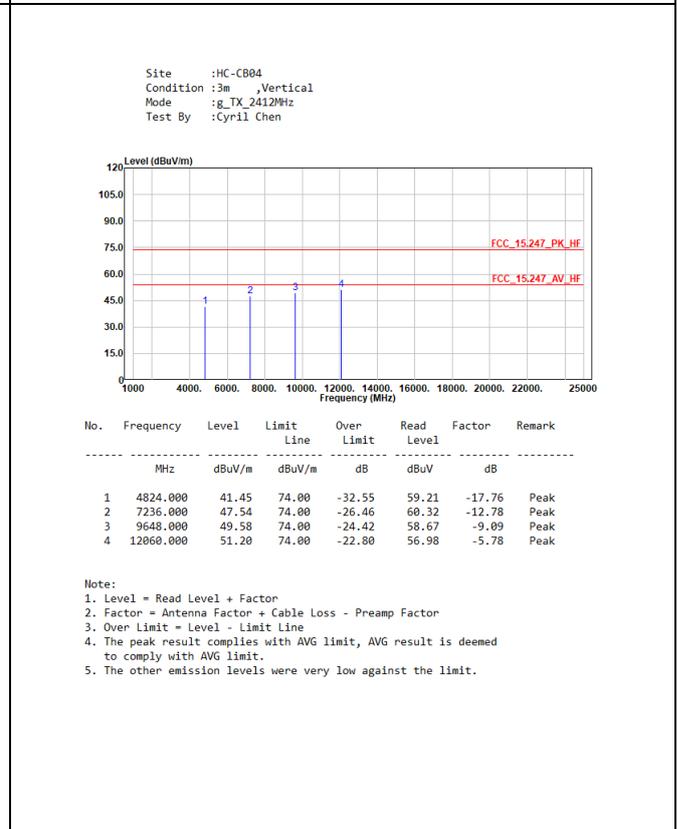
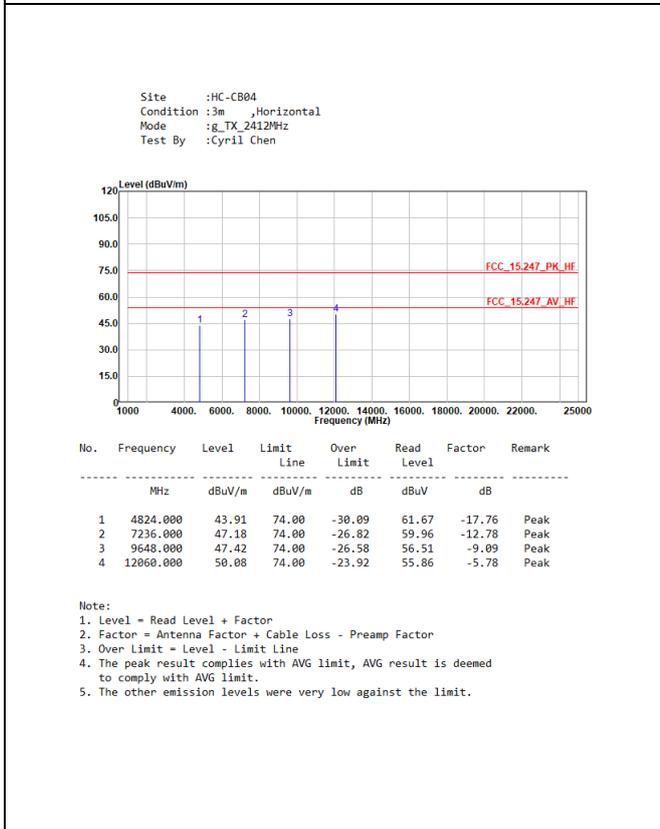
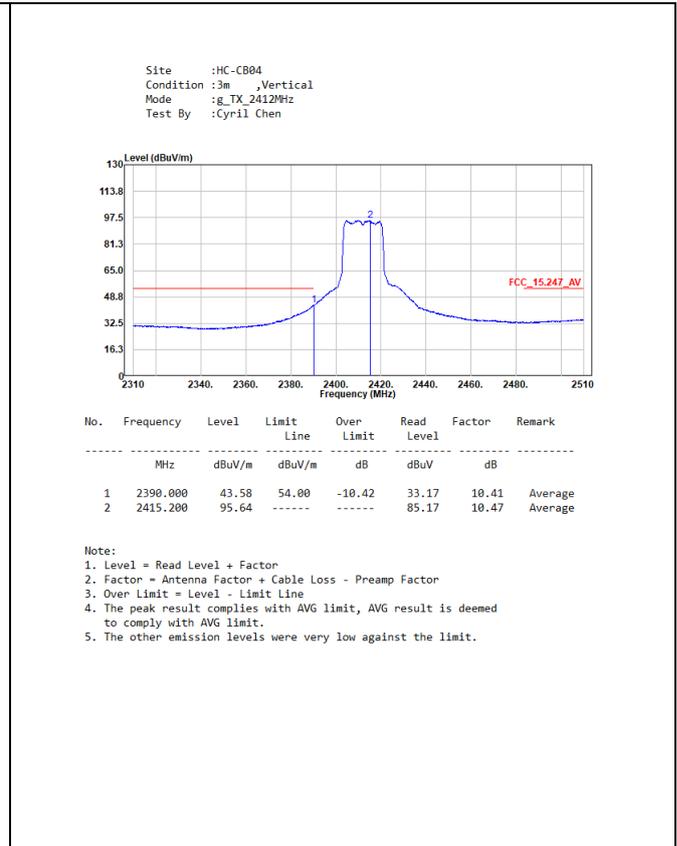
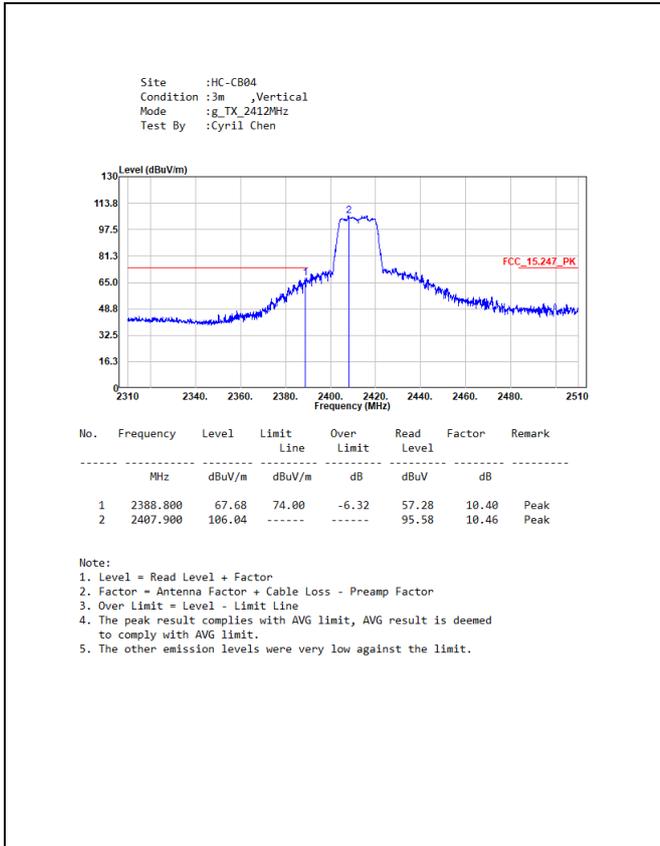
Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

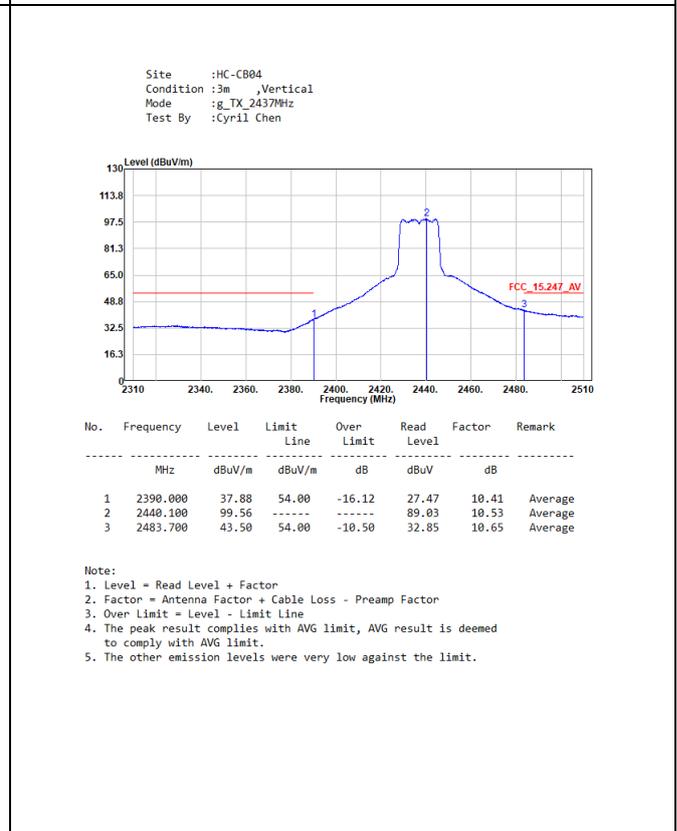
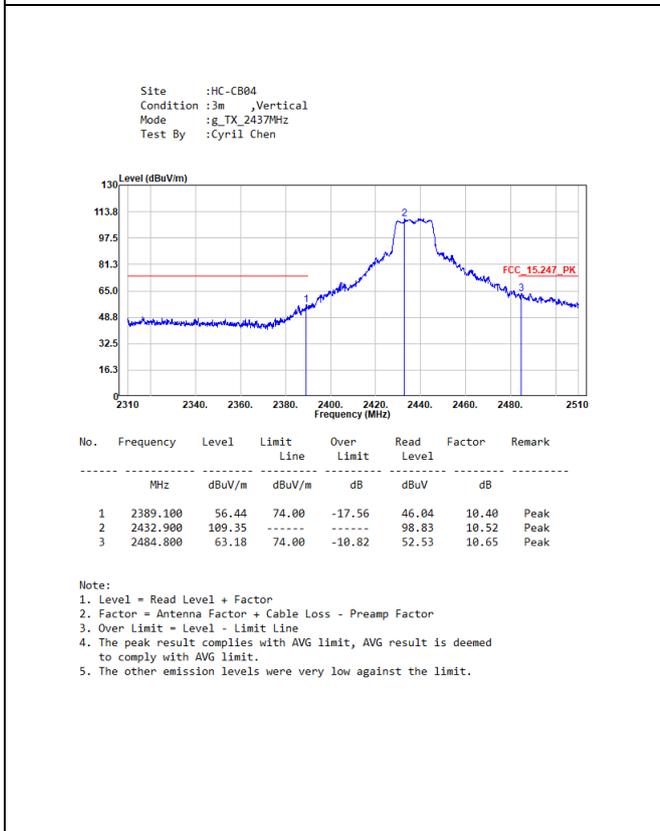
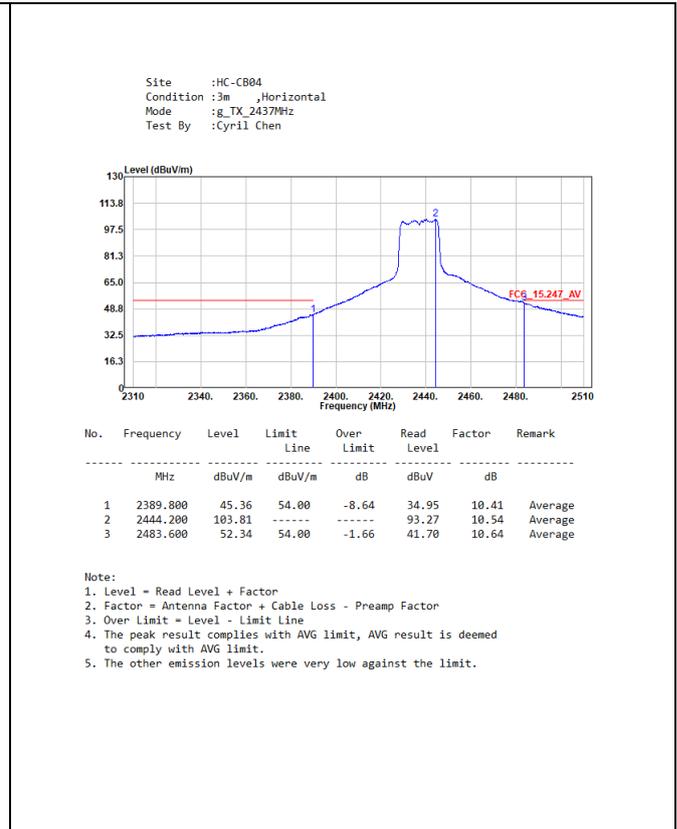
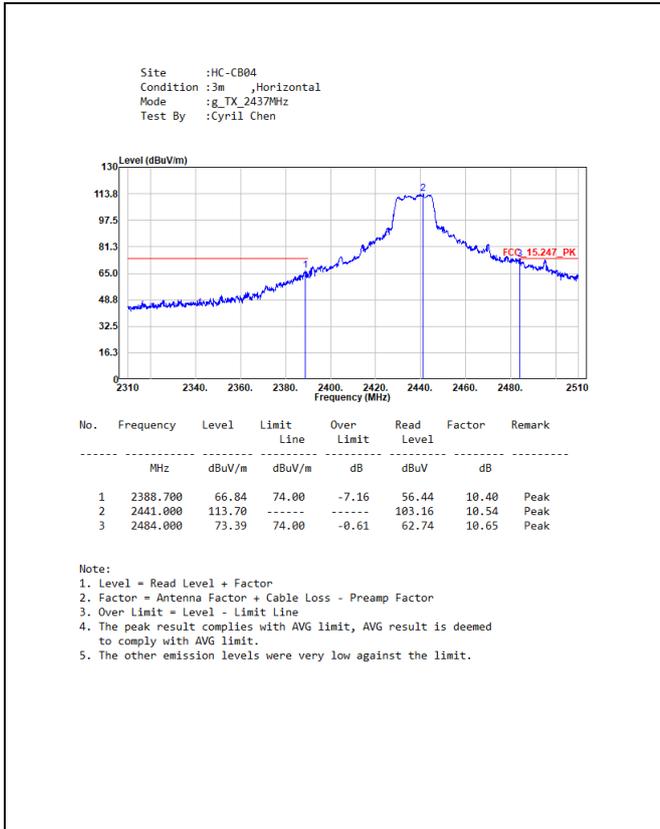


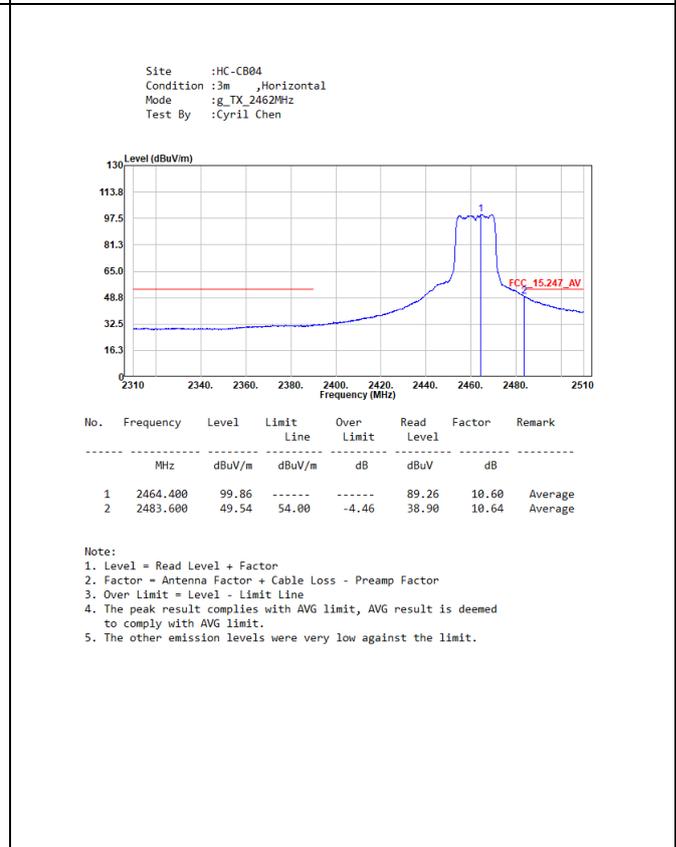
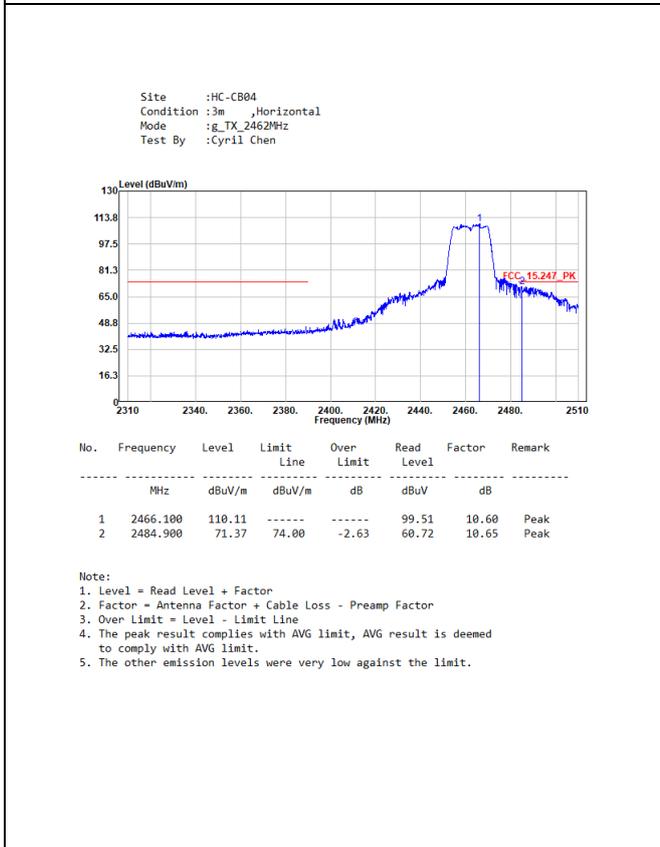
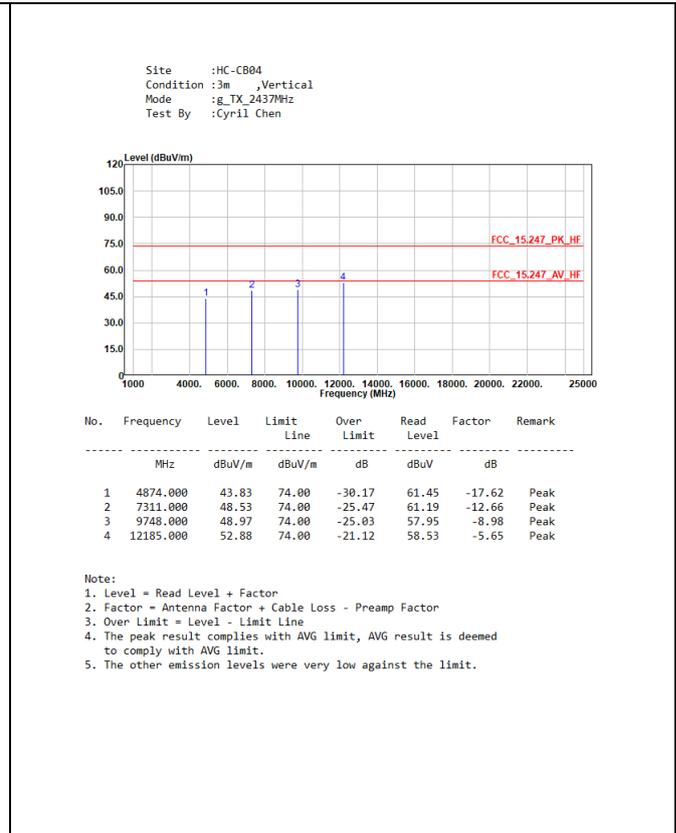
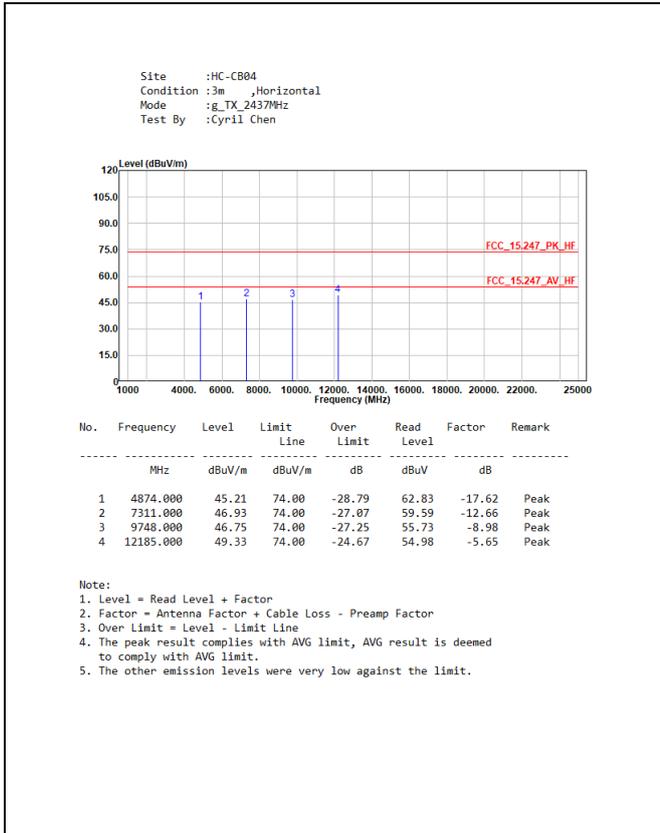


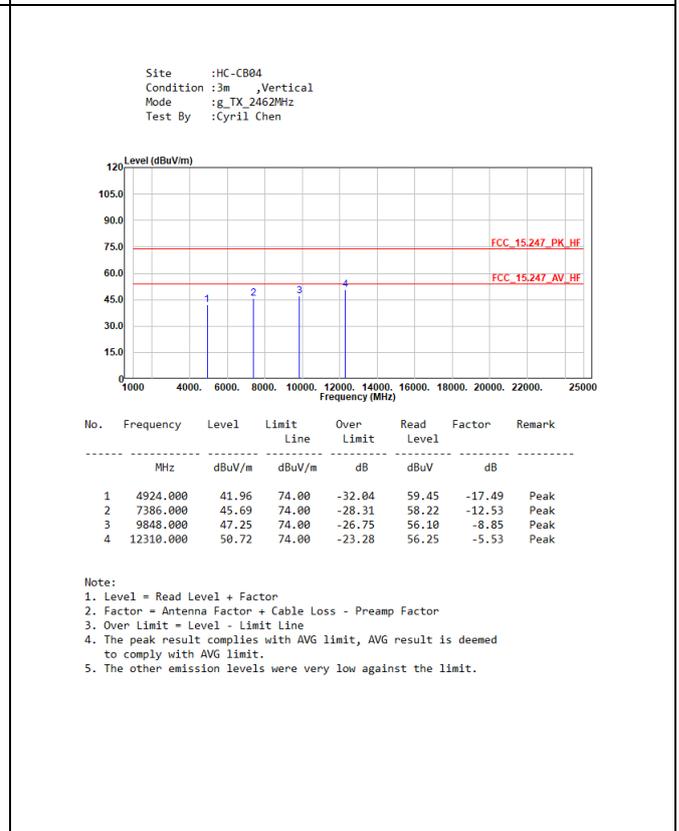
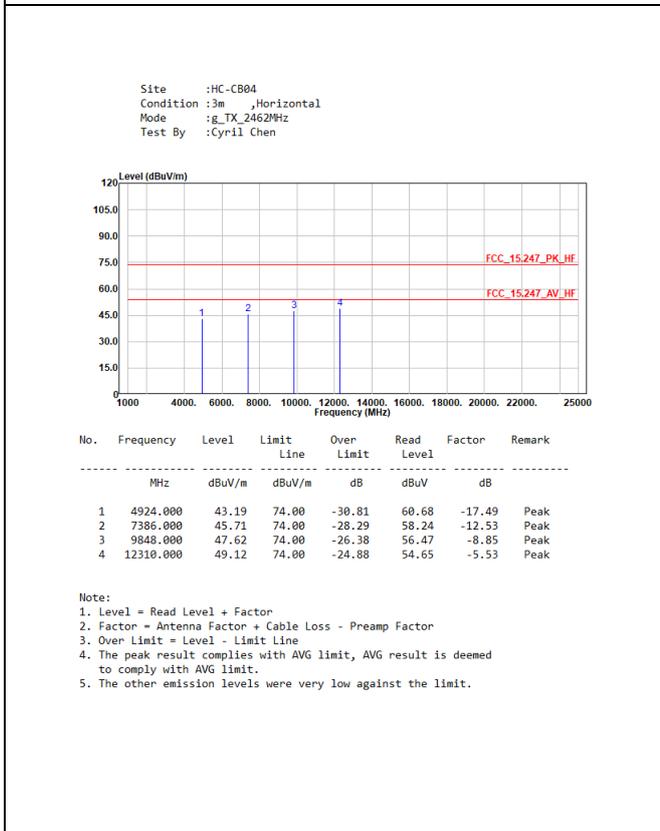
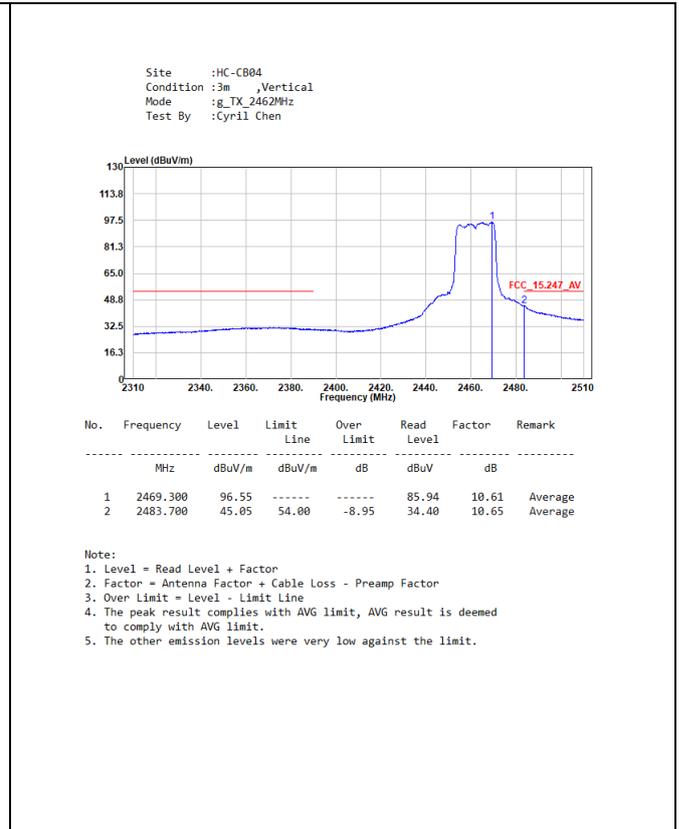
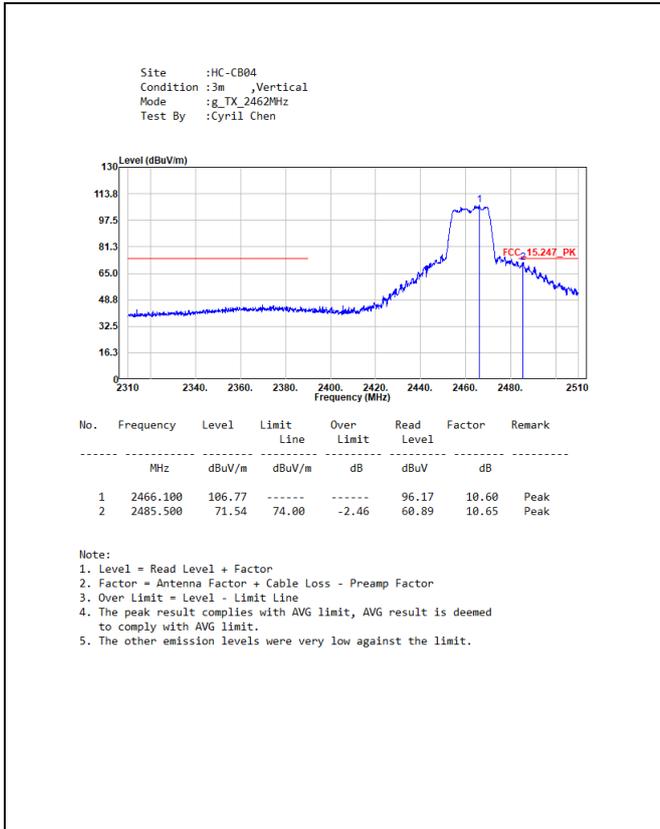


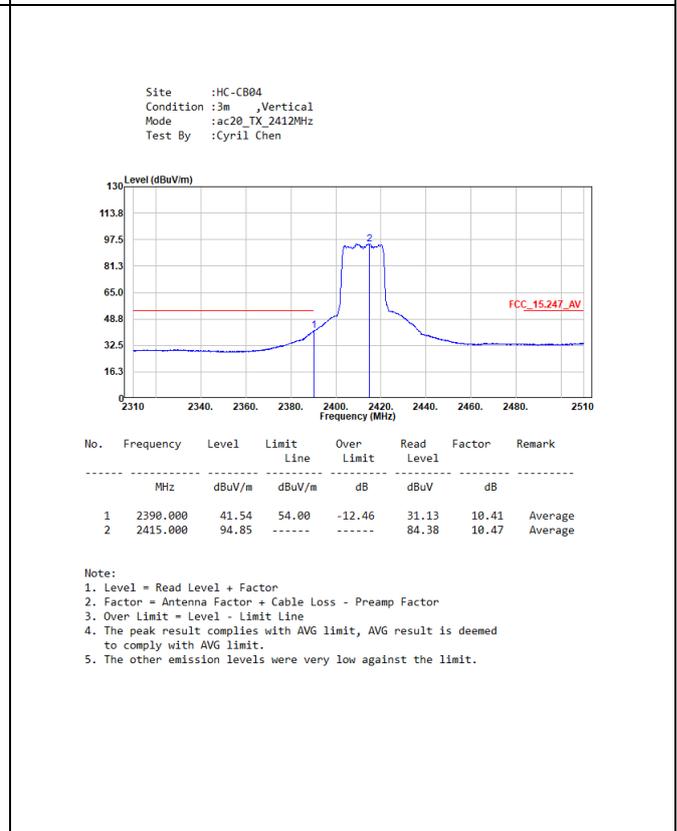
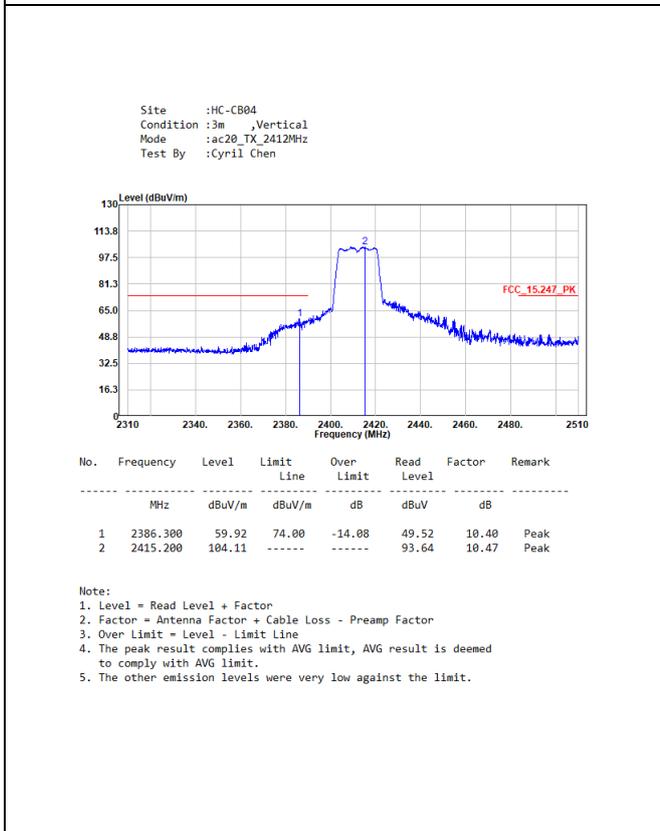
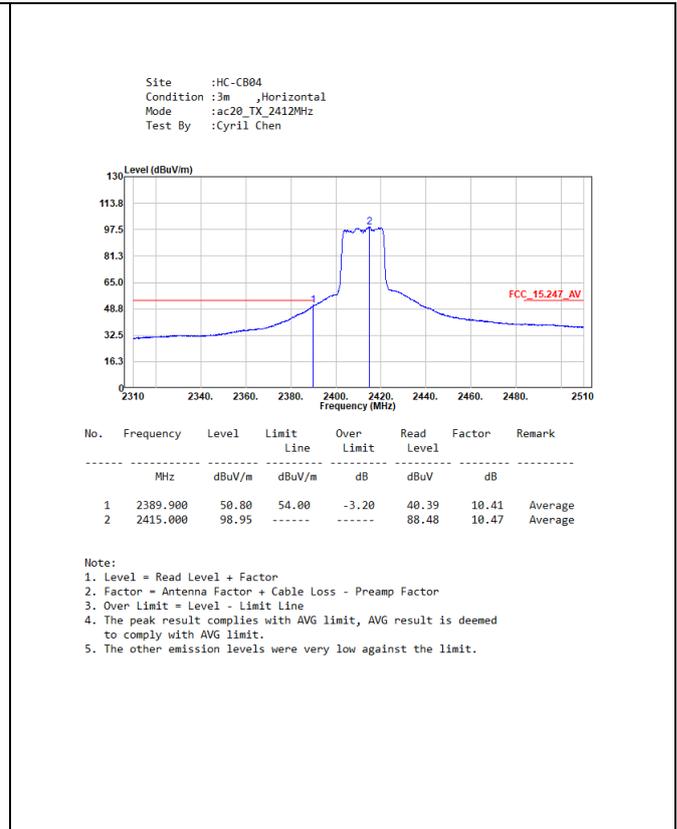
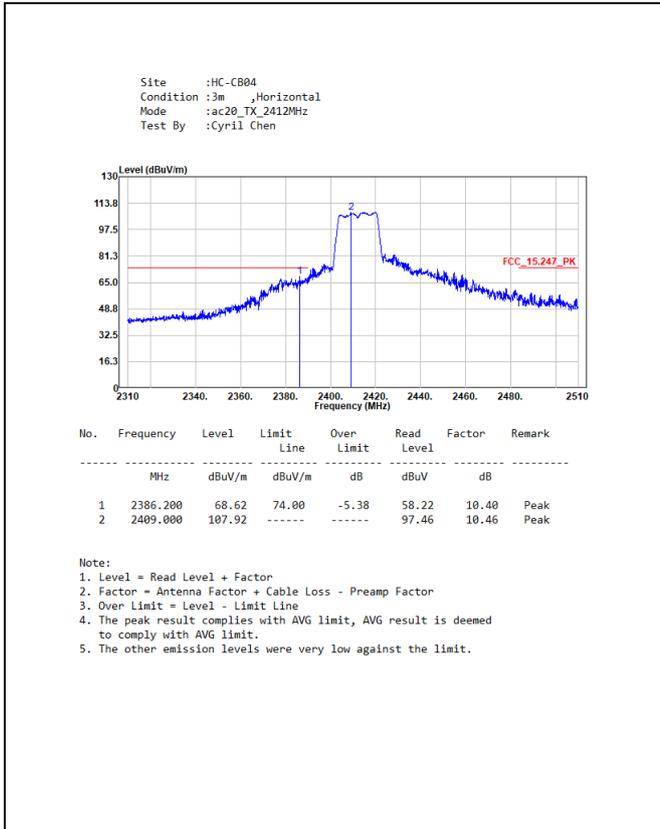


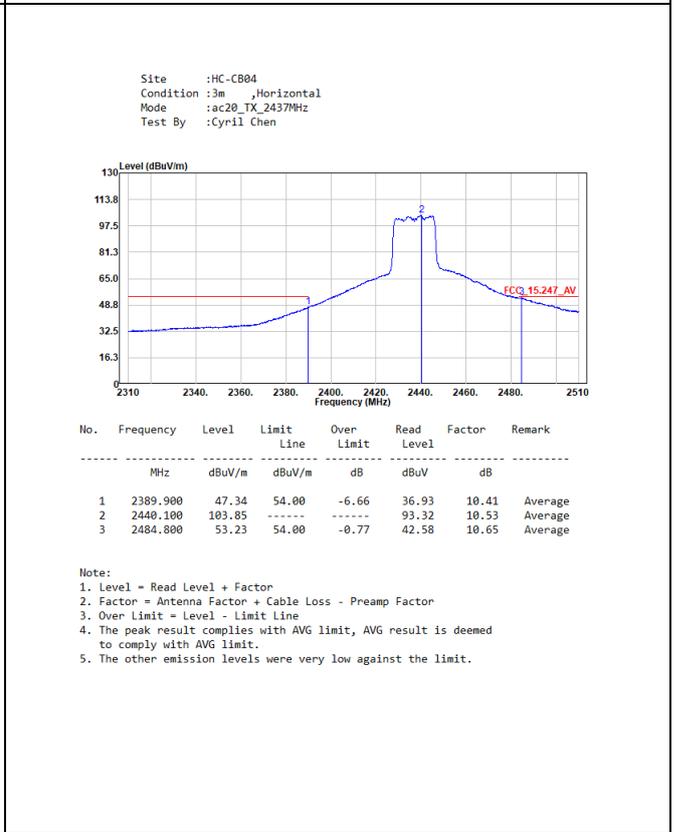
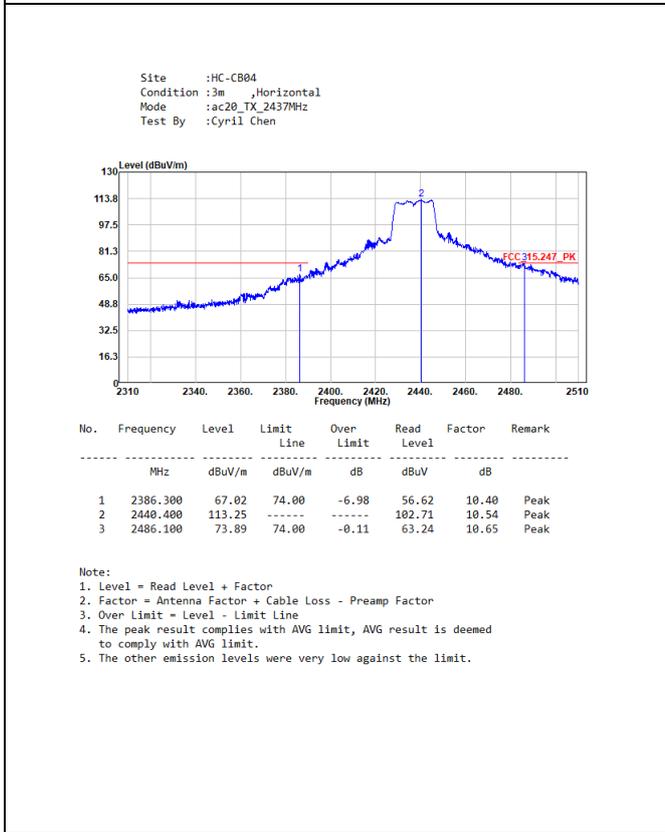
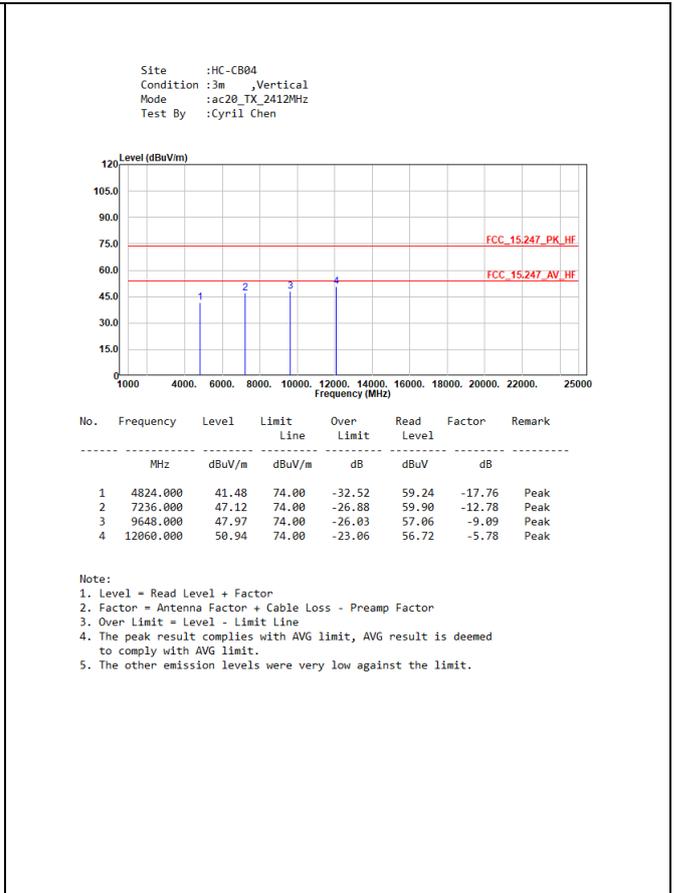
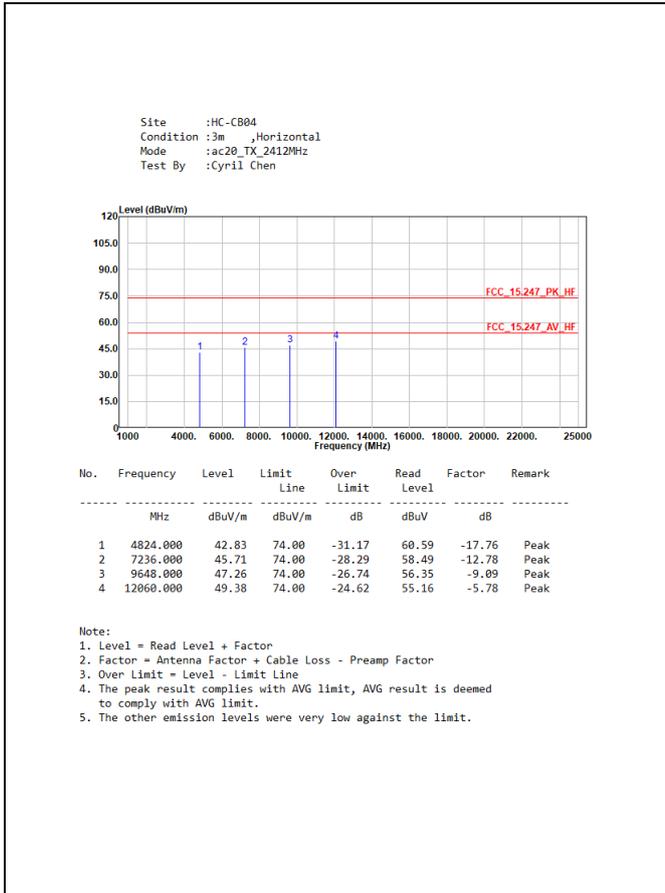


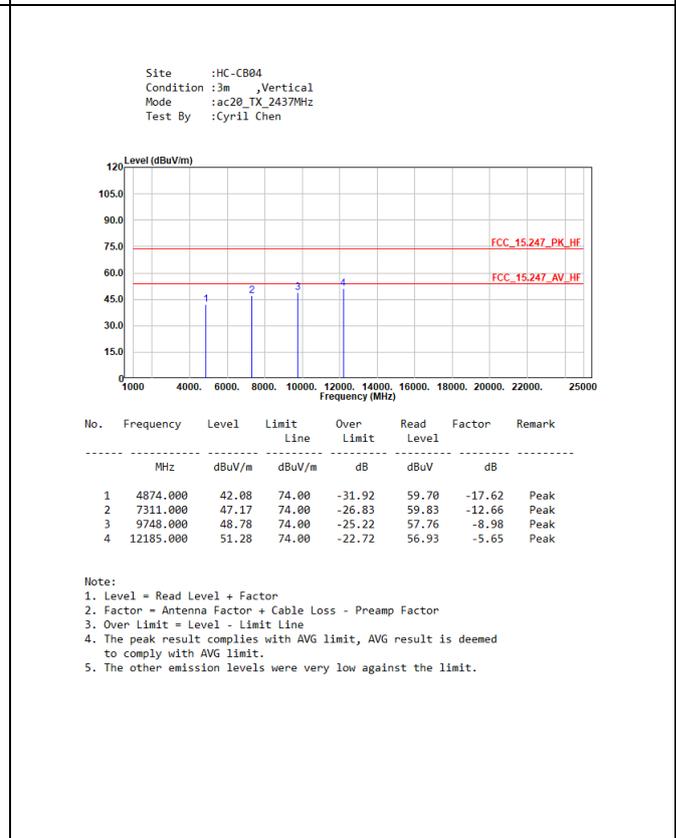
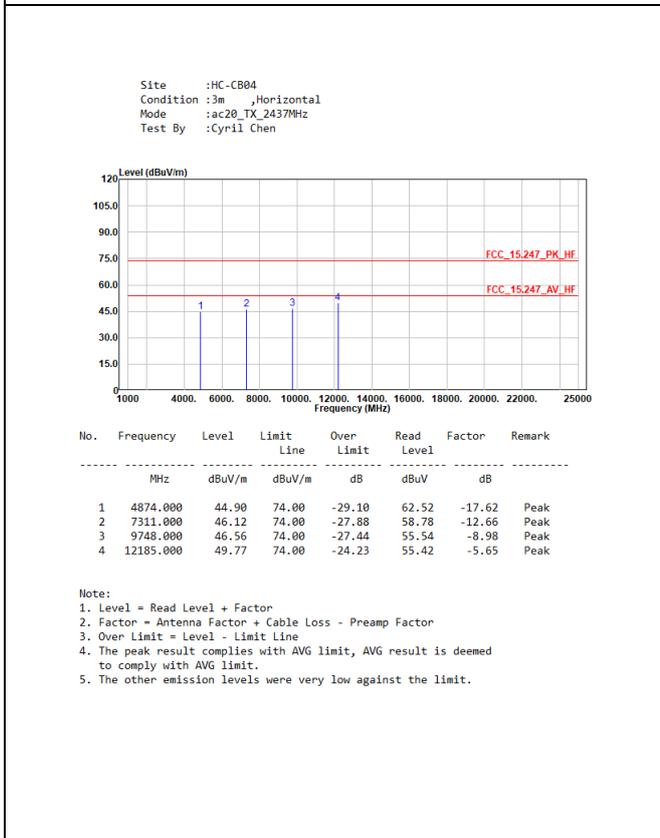
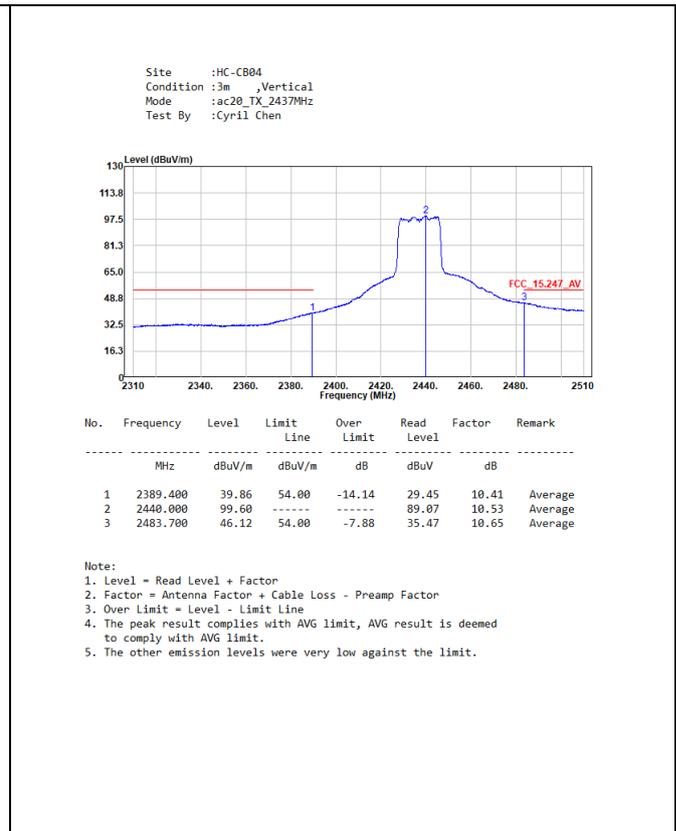
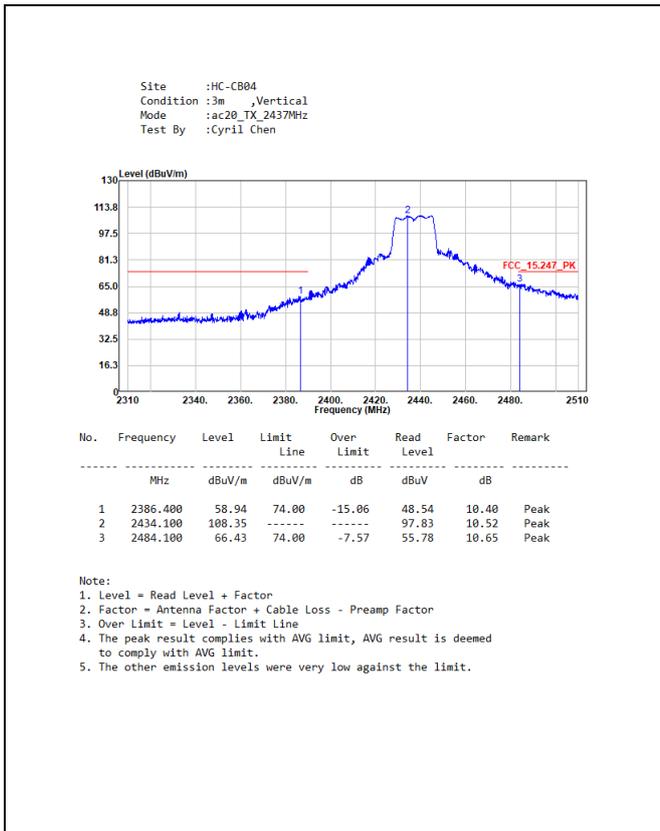


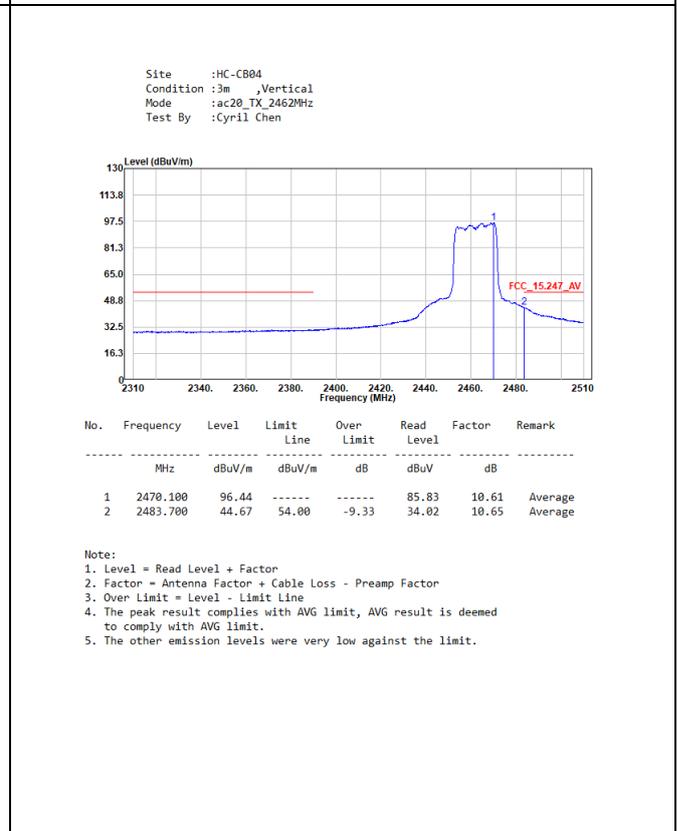
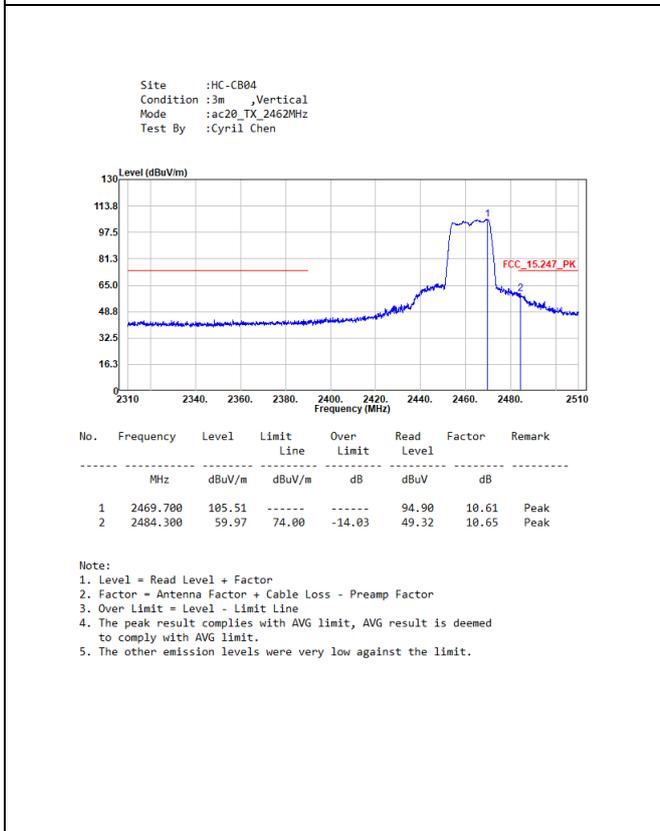
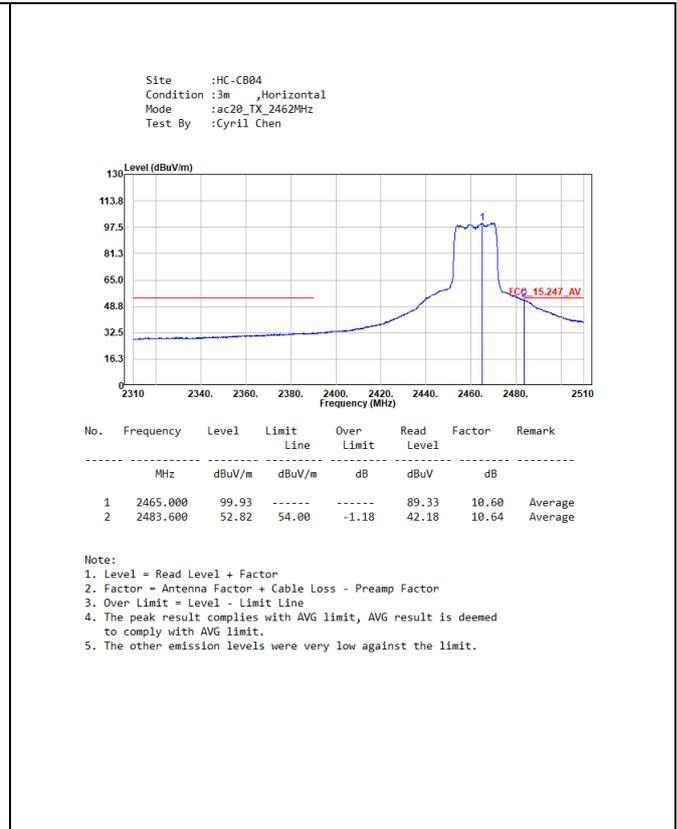
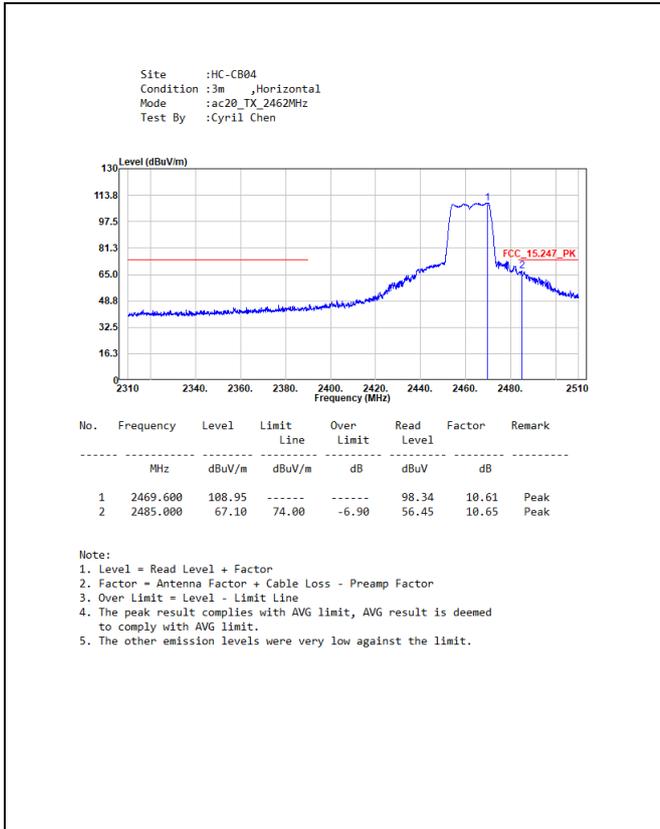


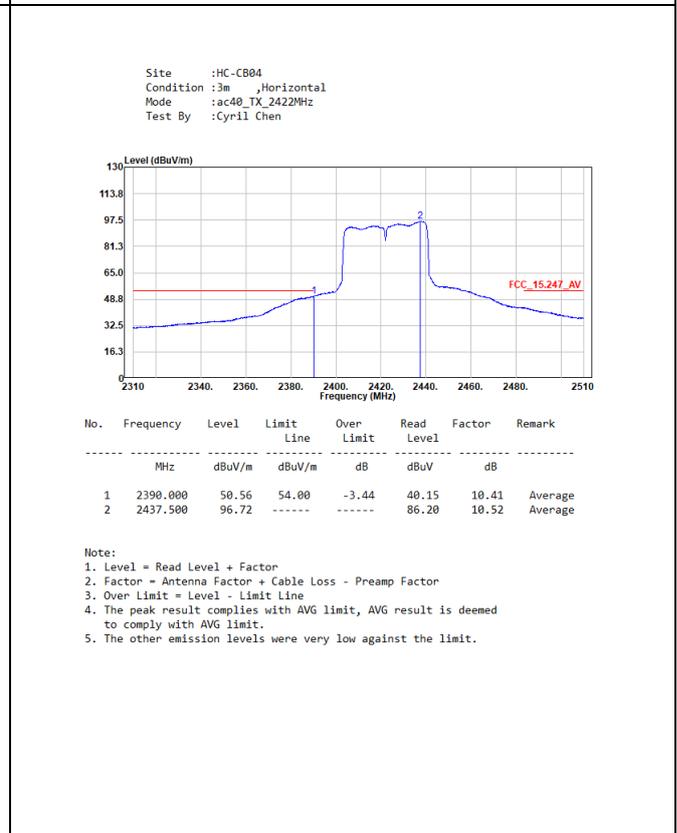
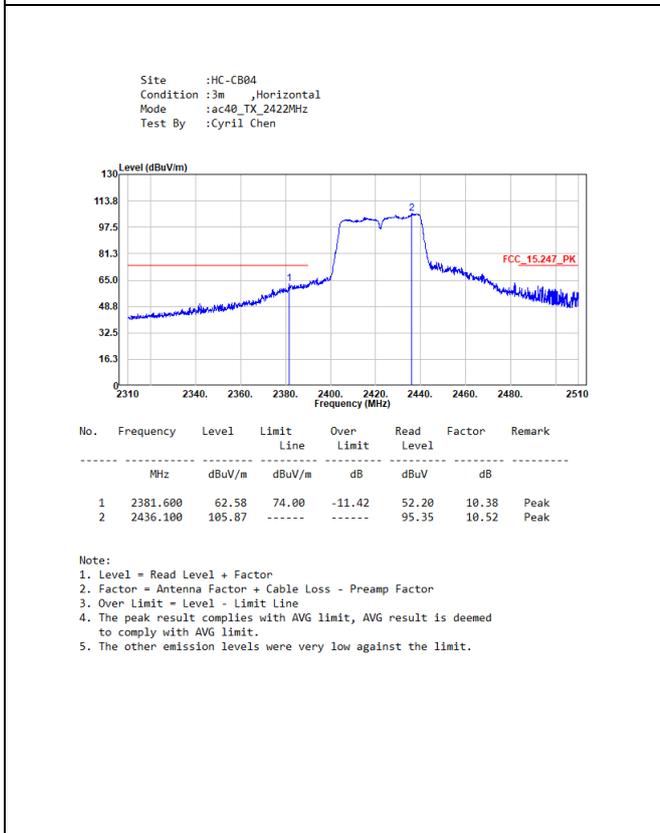
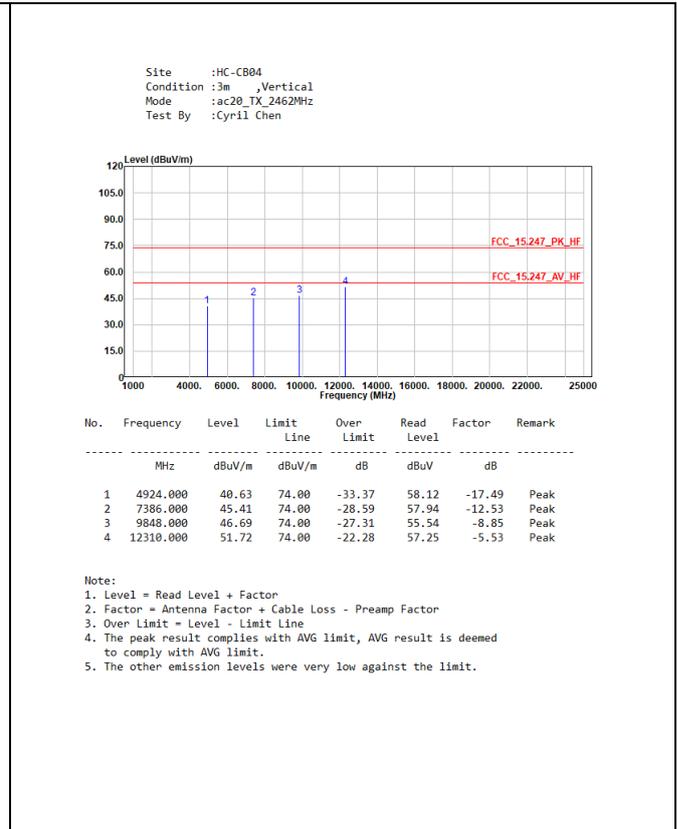
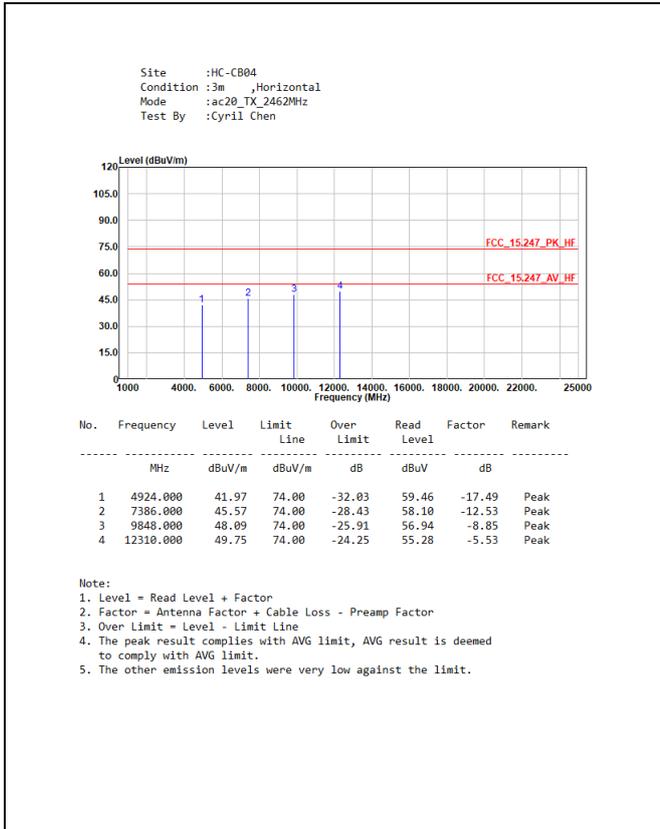


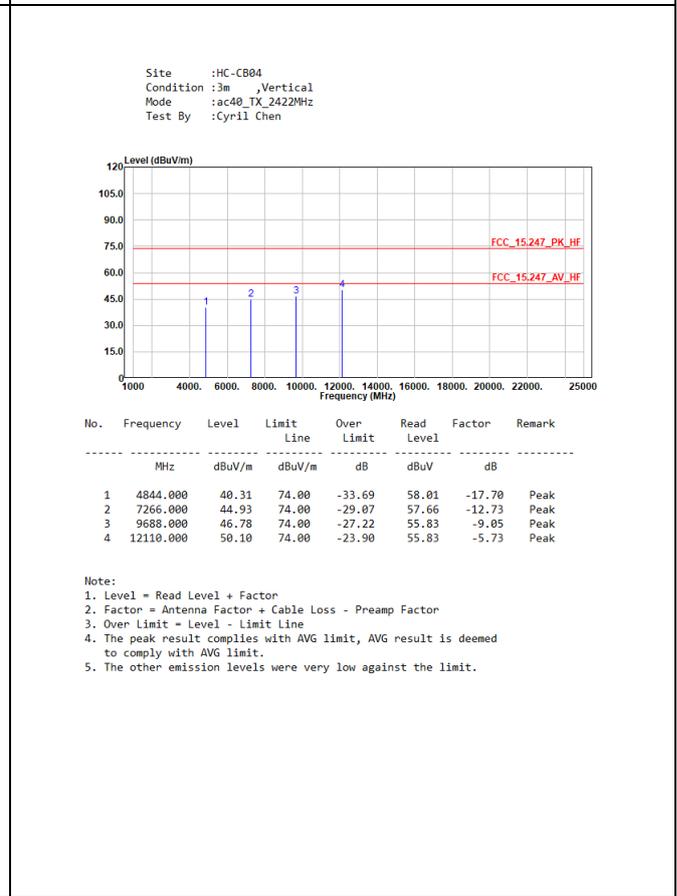
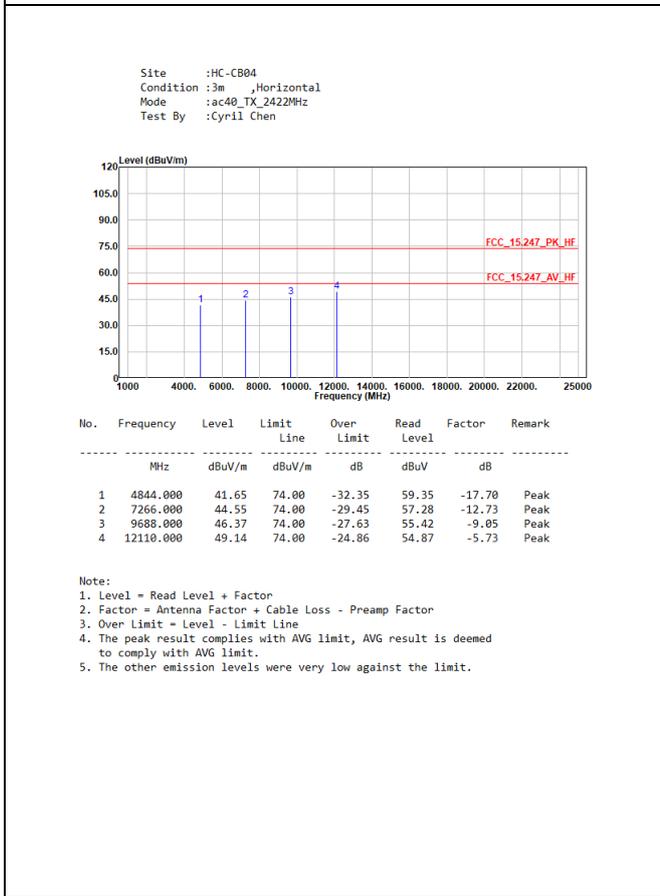
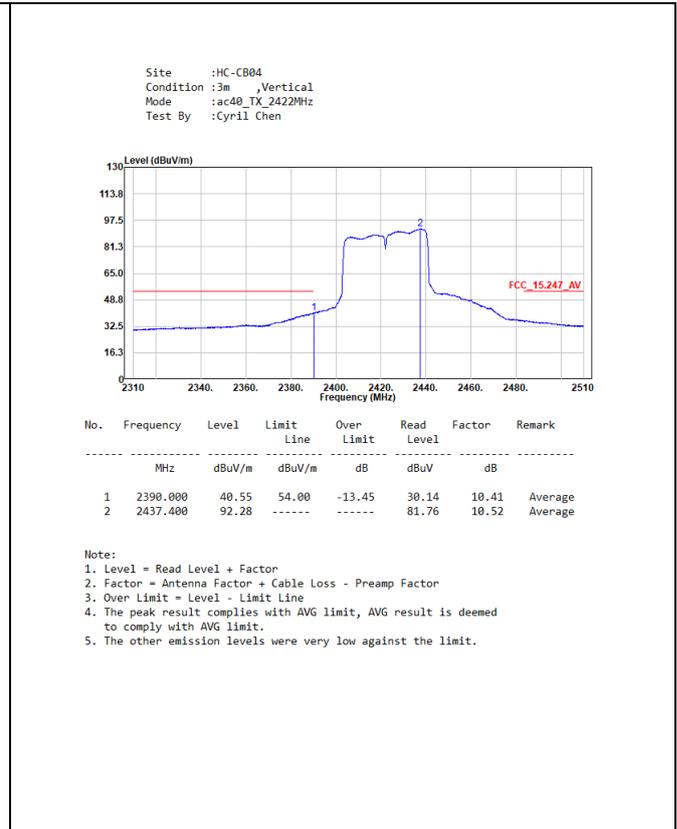
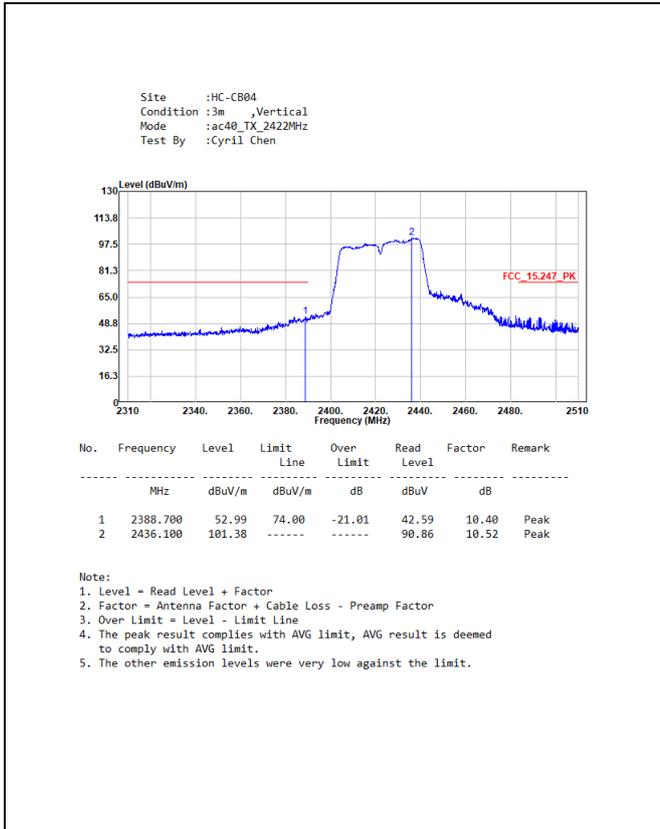


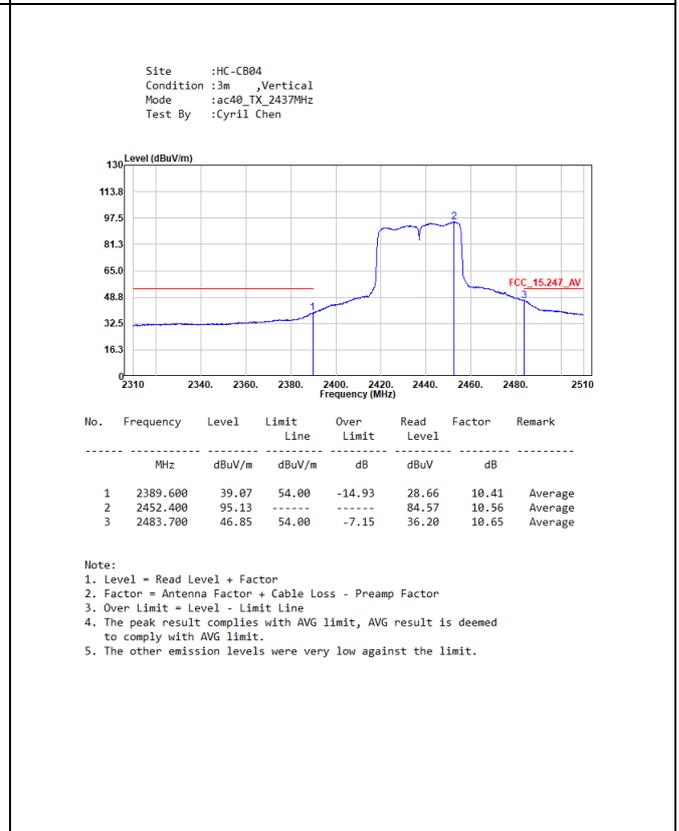
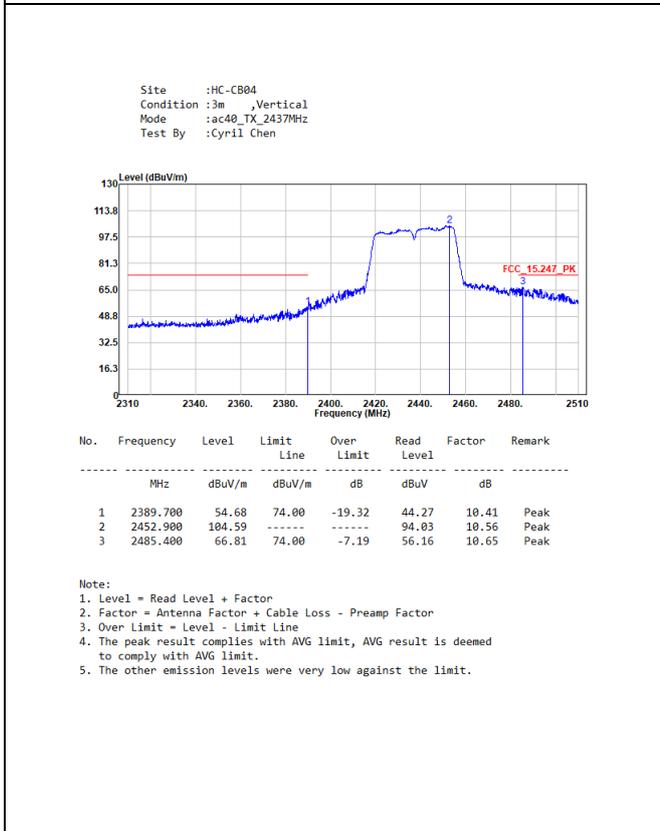
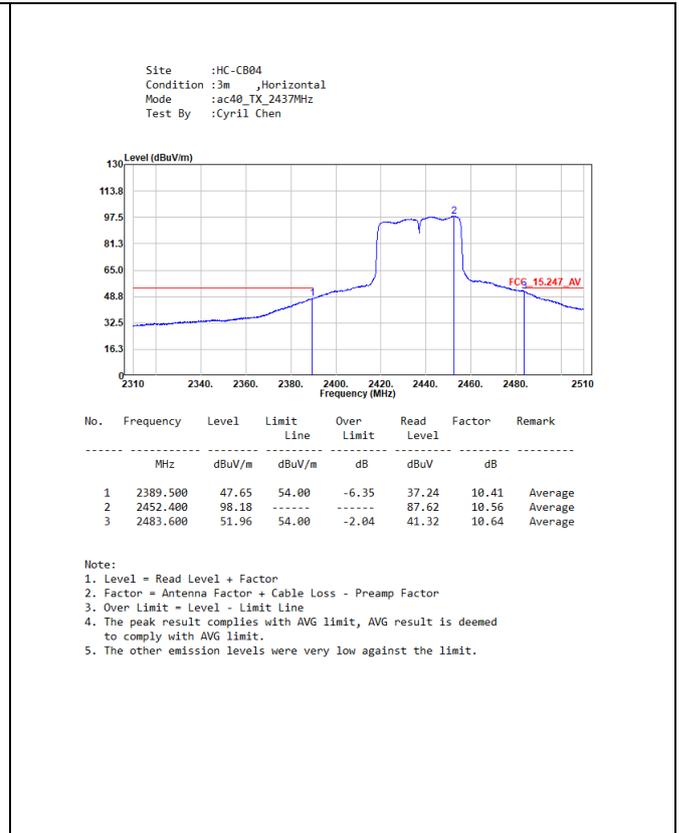
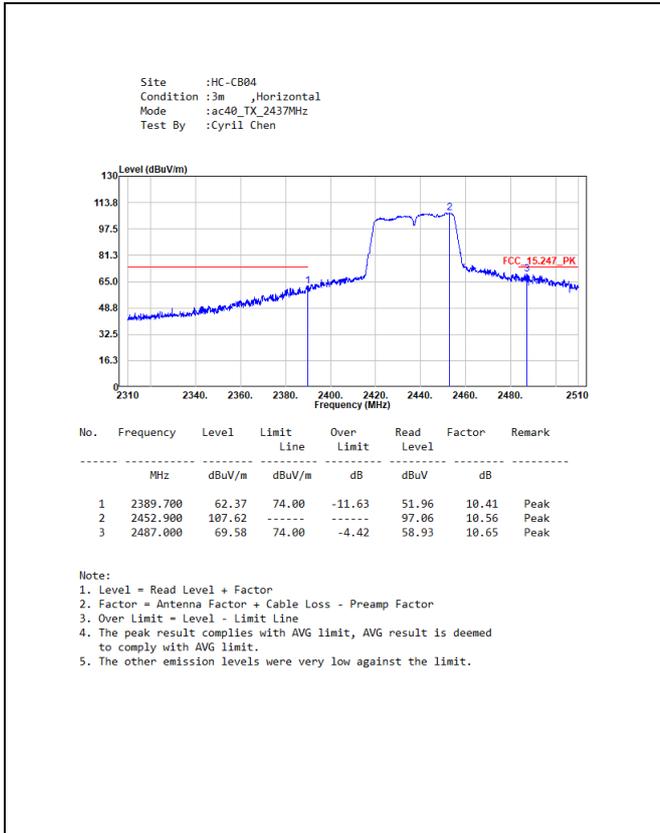


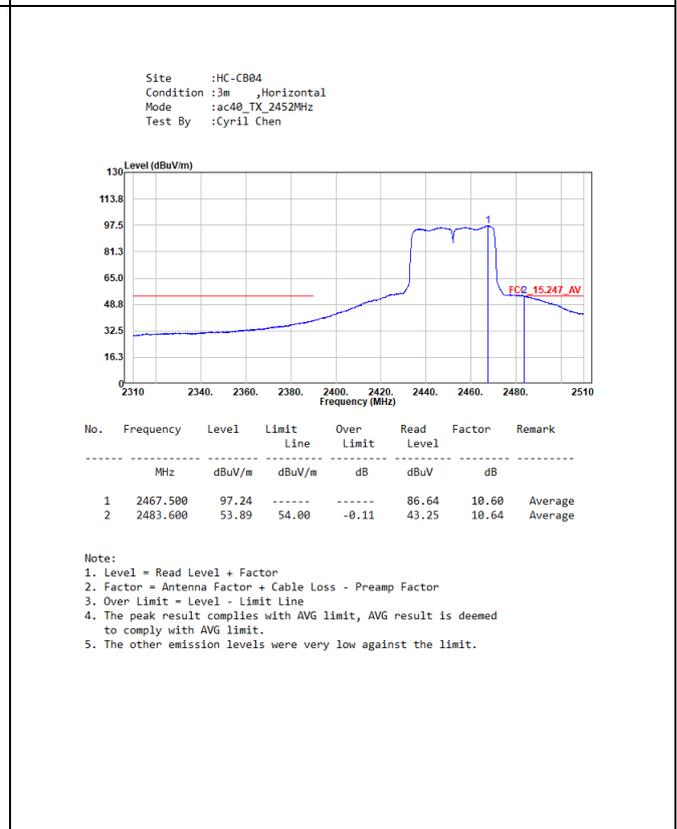
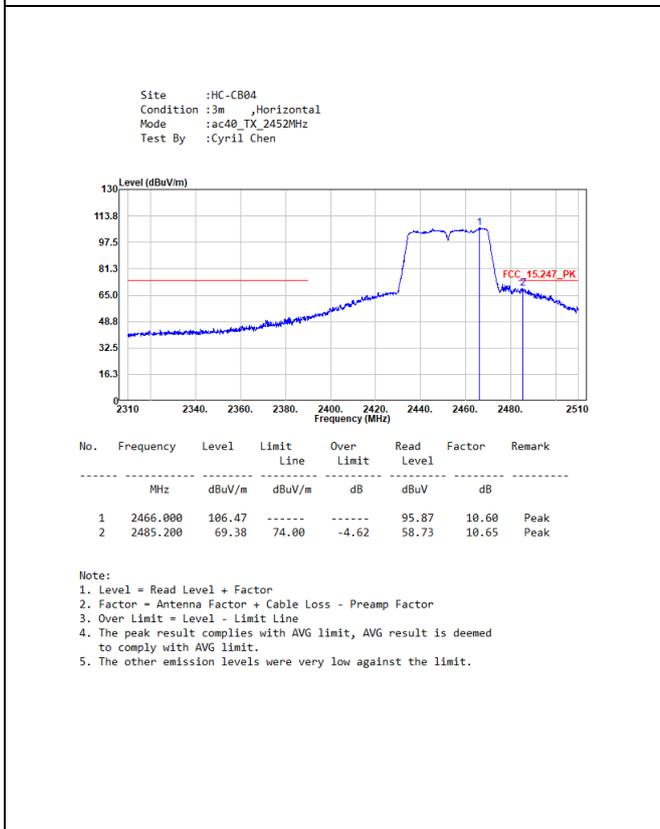
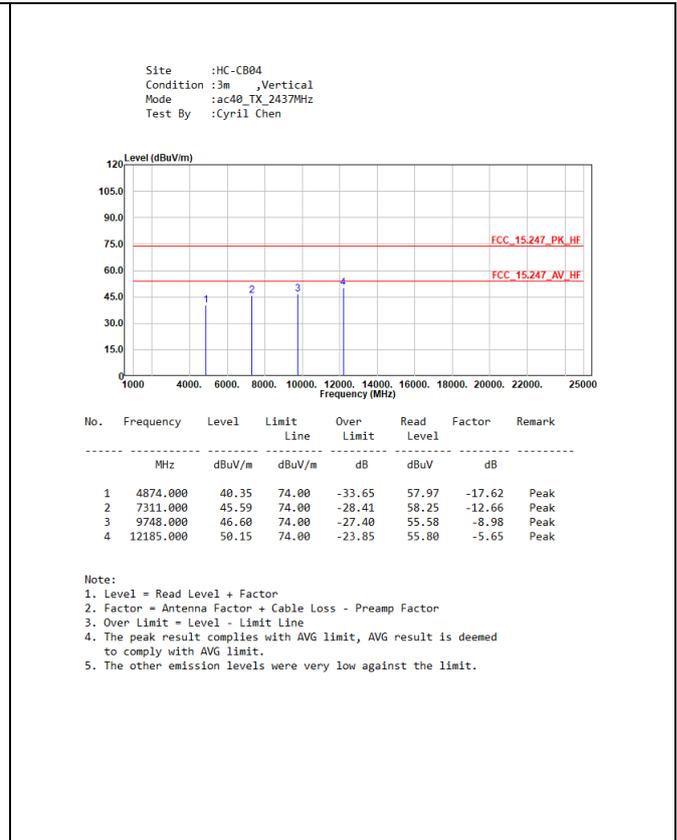
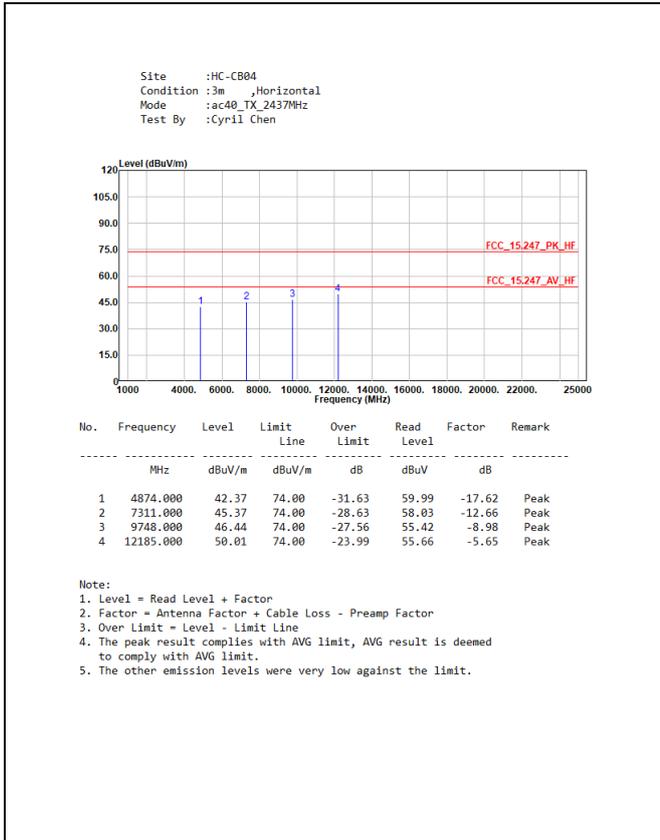


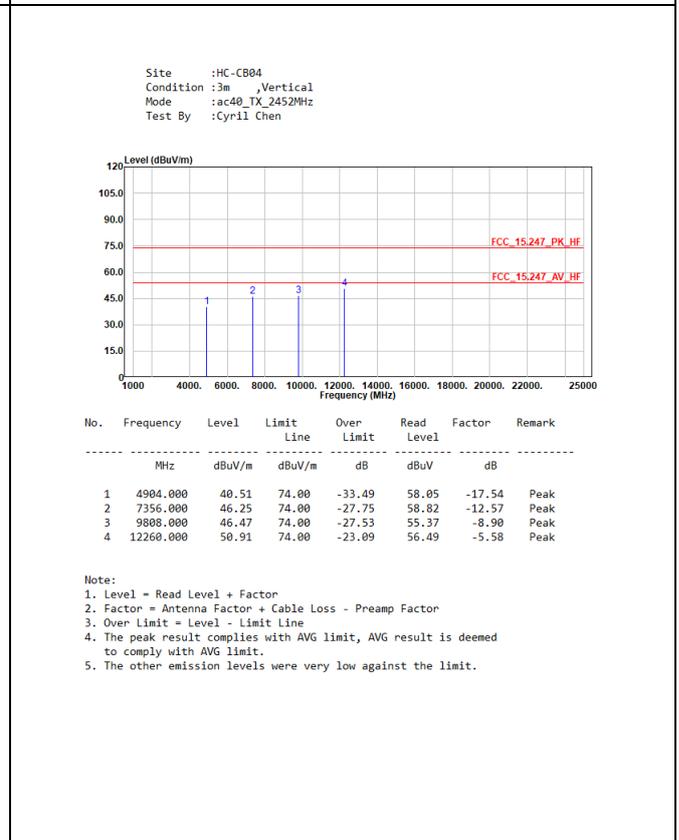
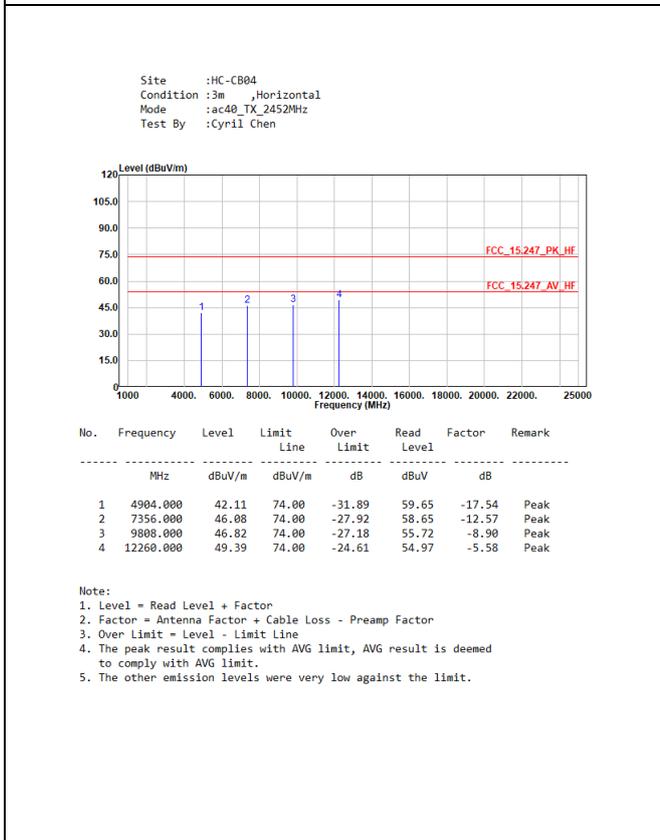
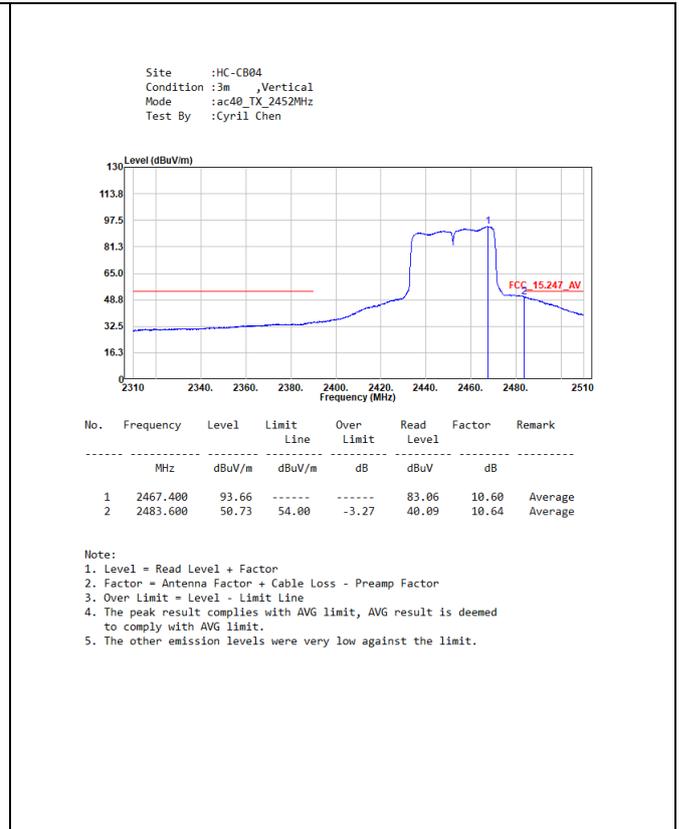
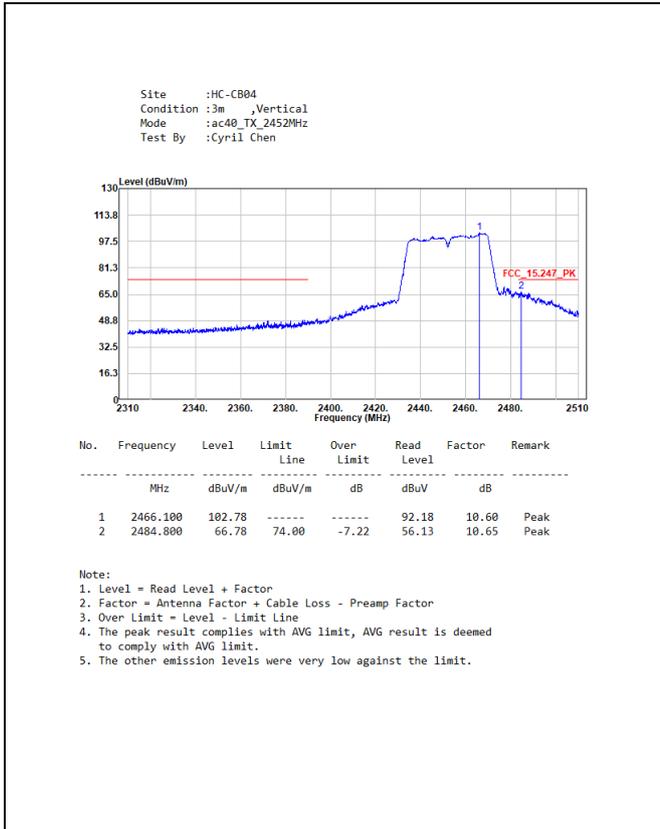








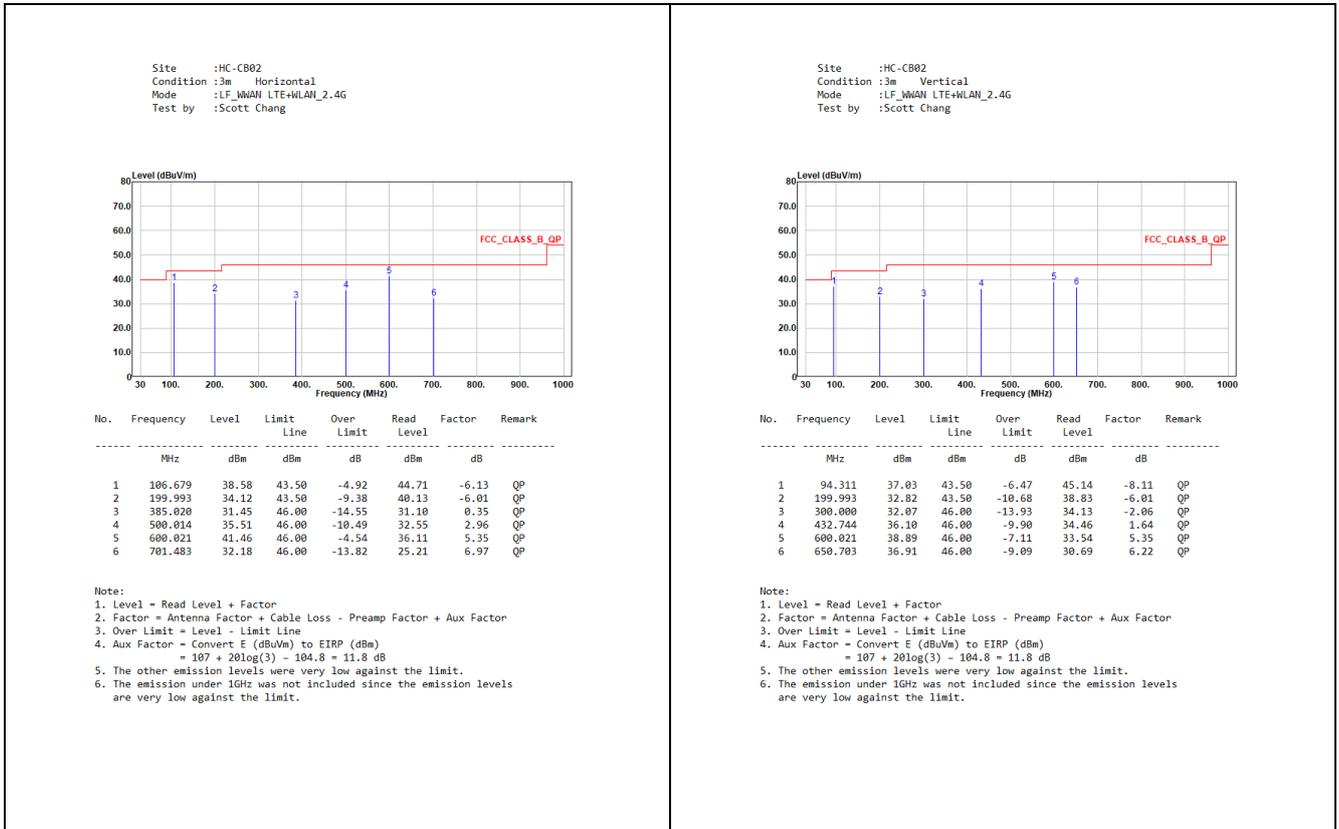




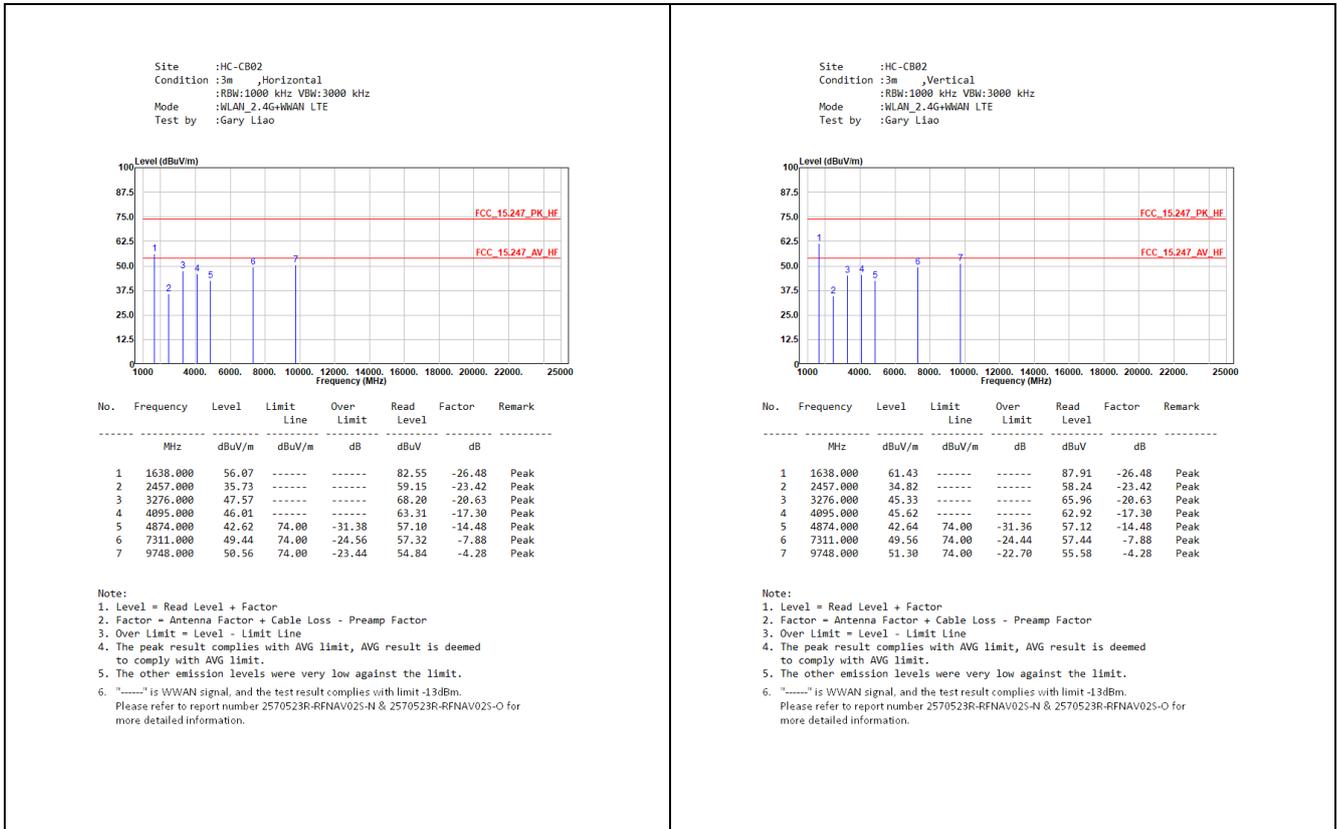
Appendix F. Test Result of Radiated Emissions Co-location

WWAN LTE + WiFi 2.4 GHz

30 MHz ~ 1 GHz:

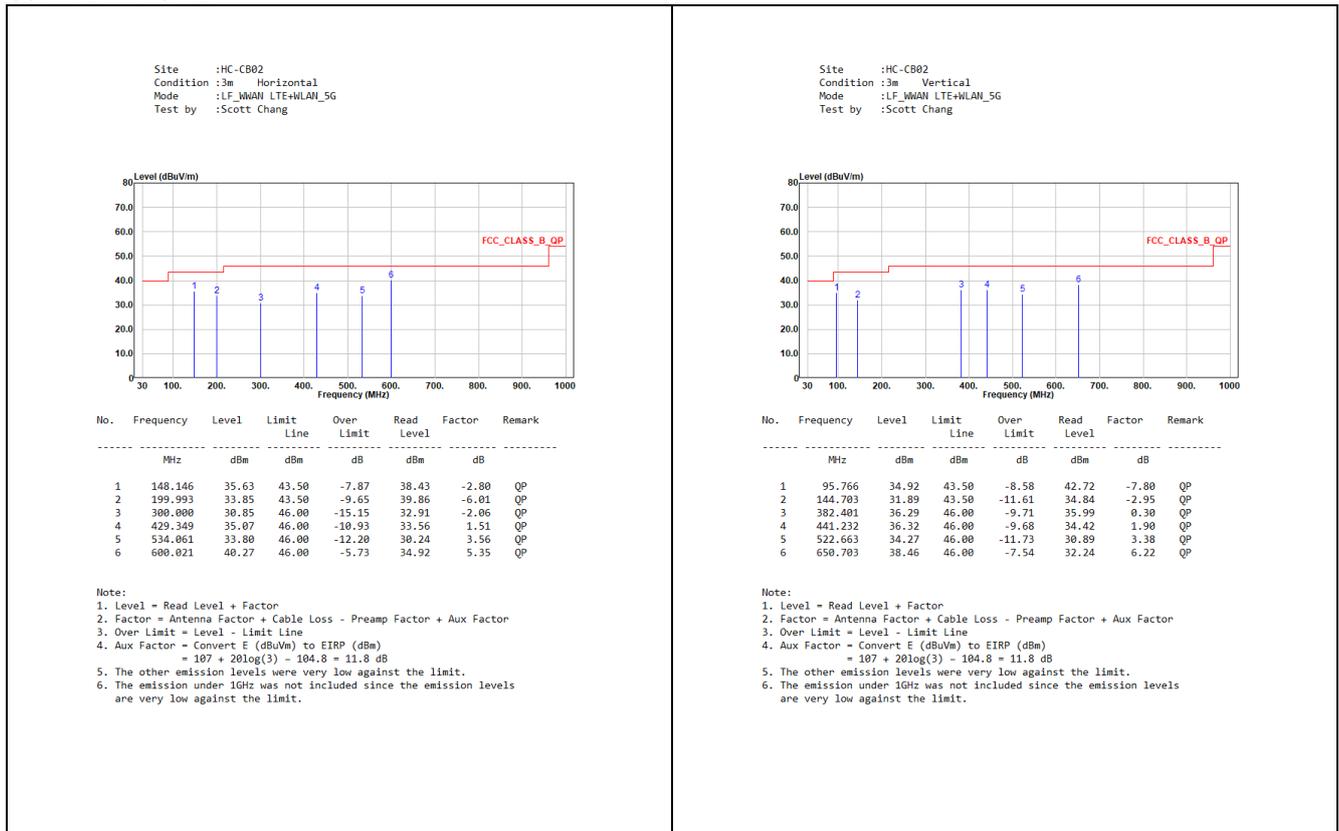


Above 1 GHz:



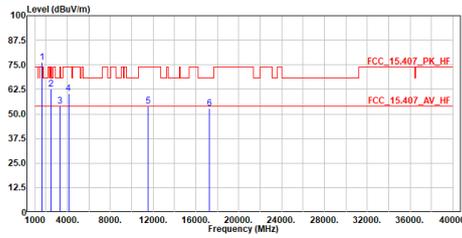
WWAN LTE + WiFi 5 GHz

30 MHz ~ 1 GHz:



Above 1 GHz:

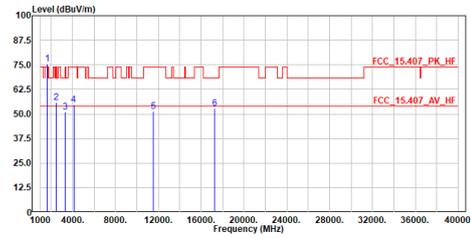
Site :HC-CB02
 Condition :3m ,Horizontal
 :RBW:1000 kHz VBW:3000 kHz
 Mode :WLAN_5G+WWAN LTE
 Test by :Gary Liao



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	1638.000	76.26	-----	-----	102.74	-26.48	Peak
2	2457.000	62.56	-----	-----	85.98	-23.42	Peak
3	3276.000	53.92	-----	-----	74.55	-20.63	Peak
4	4095.000	60.20	-----	-----	77.50	-17.30	Peak
5	11510.000	53.93	74.00	-20.07	55.67	-1.74	Peak
6	17265.000	52.73	68.20	-15.47	51.17	1.56	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.
 6. "-----" is WWAN signal, and the test result complies with limit -13dBm.
 Please refer to report number 2570523R-RFNAV025-N & 2570523R-RFNAV025-O for more detailed information.

Site :HC-CB02
 Condition :3m ,Vertical
 :RBW:1000 kHz VBW:3000 kHz
 Mode :WLAN_5G+WWAN LTE
 Test by :Gary Liao

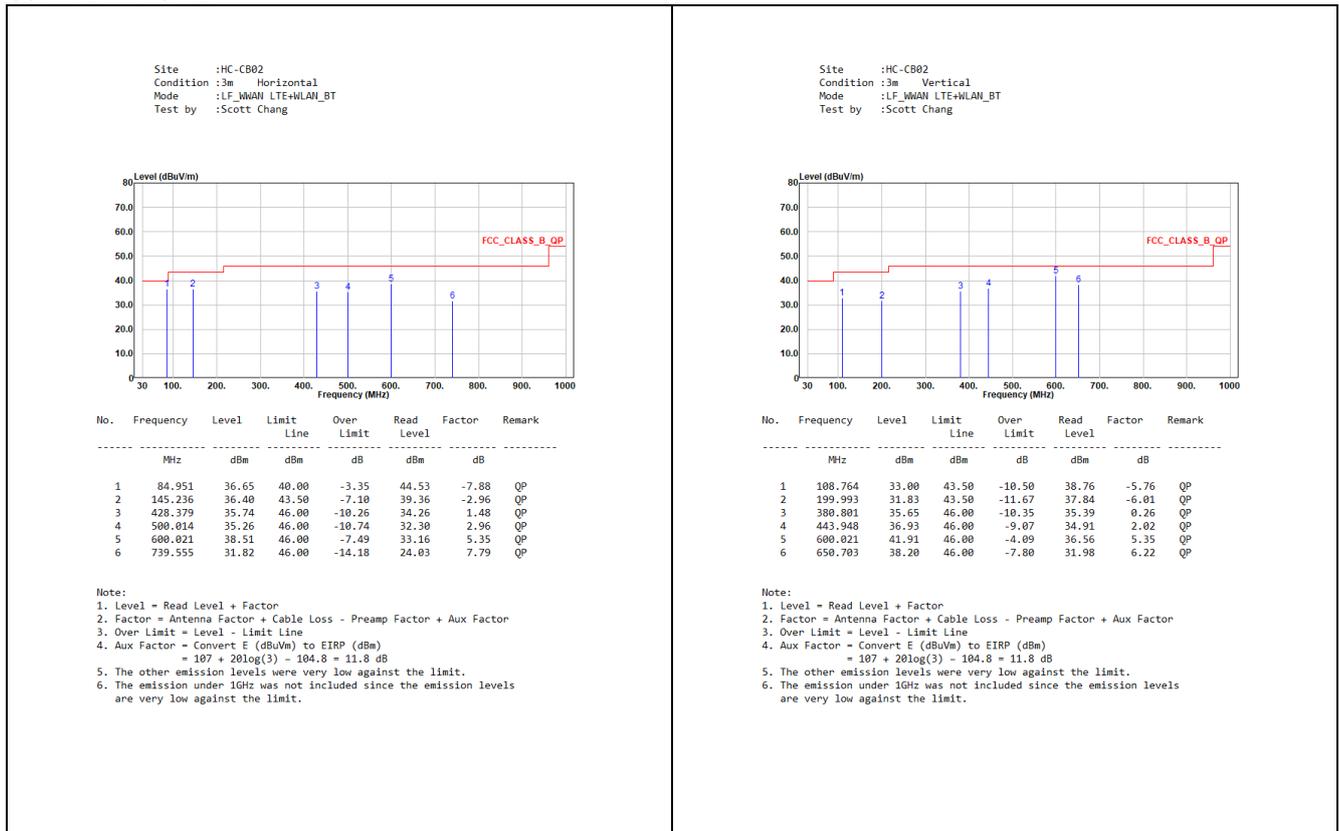


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	1638.000	75.62	-----	-----	102.10	-26.48	Peak
2	2457.000	55.90	-----	-----	79.32	-23.42	Peak
3	3276.000	50.91	-----	-----	71.54	-20.63	Peak
4	4095.000	54.82	-----	-----	72.12	-17.30	Peak
5	11510.000	51.50	74.00	-22.50	53.24	-1.74	Peak
6	17265.000	52.75	68.20	-15.45	51.19	1.56	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.
 6. "-----" is WWAN signal, and the test result complies with limit -13dBm.
 Please refer to report number 2570523R-RFNAV025-N & 2570523R-RFNAV025-O for more detailed information.

WWAN LTE + Bluetooth

30 MHz ~ 1 GHz:



Above 1 GHz:

Site :HC-CB02
 Condition :3m ,Horizontal
 :RBW:1000 kHz VBW:3000 kHz
 Mode :WLAN_BT-WWAN LTE
 Test by :Gary Liao

No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	1638.000	70.90	-----	-----	97.38	-26.48	Peak
2	2457.000	34.85	-----	-----	58.27	-23.42	Peak
3	3276.000	59.37	-----	-----	80.00	-20.63	Peak
4	4095.000	42.17	-----	-----	59.47	-17.30	Peak
5	4804.000	52.42	74.00	-21.58	67.17	-14.75	Peak
6	7206.000	47.92	74.00	-26.08	55.91	-7.99	Peak
7	9608.000	50.26	74.00	-23.74	54.82	-4.56	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.
 6. "-----" is WWAN signal, and the test result complies with limit -13dBm.
 Please refer to report number 2570523R-RFNAV025-N & 2570523R-RFNAV025-O for more detailed information.

Site :HC-CB02
 Condition :3m ,Vertical
 :RBW:1000 kHz VBW:3000 kHz
 Mode :WLAN_BT-WWAN LTE
 Test by :Gary Liao

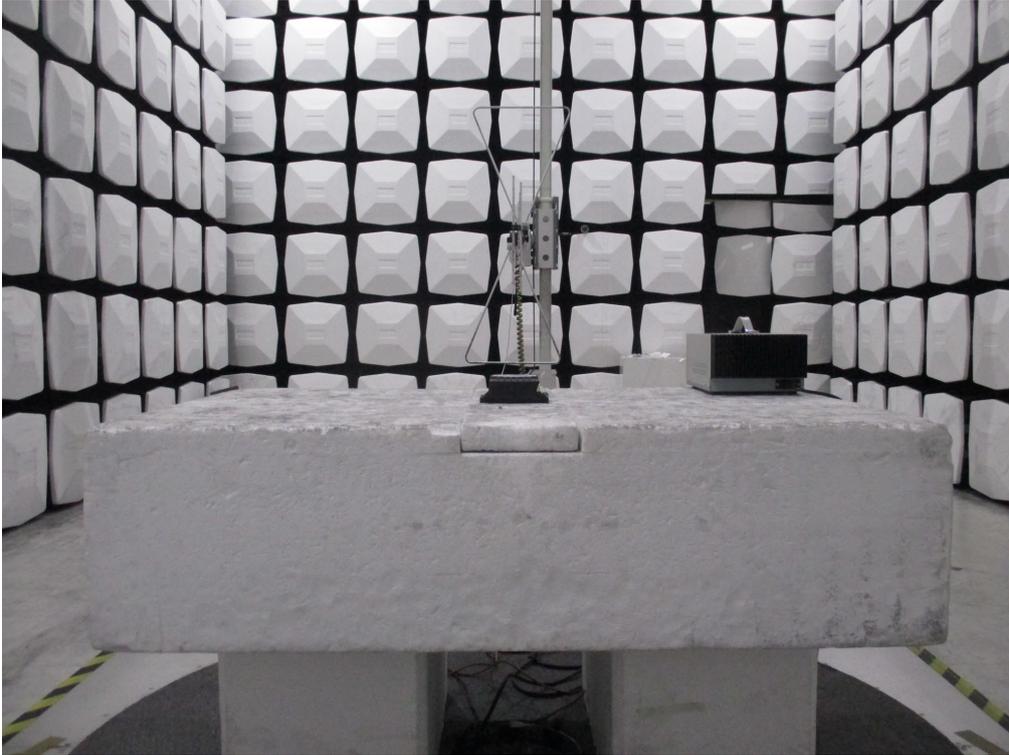
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	1638.000	70.95	-----	-----	97.43	-26.48	Peak
2	2457.000	34.80	-----	-----	58.22	-23.42	Peak
3	3276.000	55.56	-----	-----	76.19	-20.63	Peak
4	4095.000	41.77	-----	-----	59.07	-17.30	Peak
5	4804.000	45.82	74.00	-28.18	60.57	-14.75	Peak
6	7206.000	47.94	74.00	-26.06	55.93	-7.99	Peak
7	9608.000	50.48	74.00	-23.52	55.04	-4.56	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.
 6. "-----" is WWAN signal, and the test result complies with limit -13dBm.
 Please refer to report number 2570523R-RFNAV025-N & 2570523R-RFNAV025-O for more detailed information.

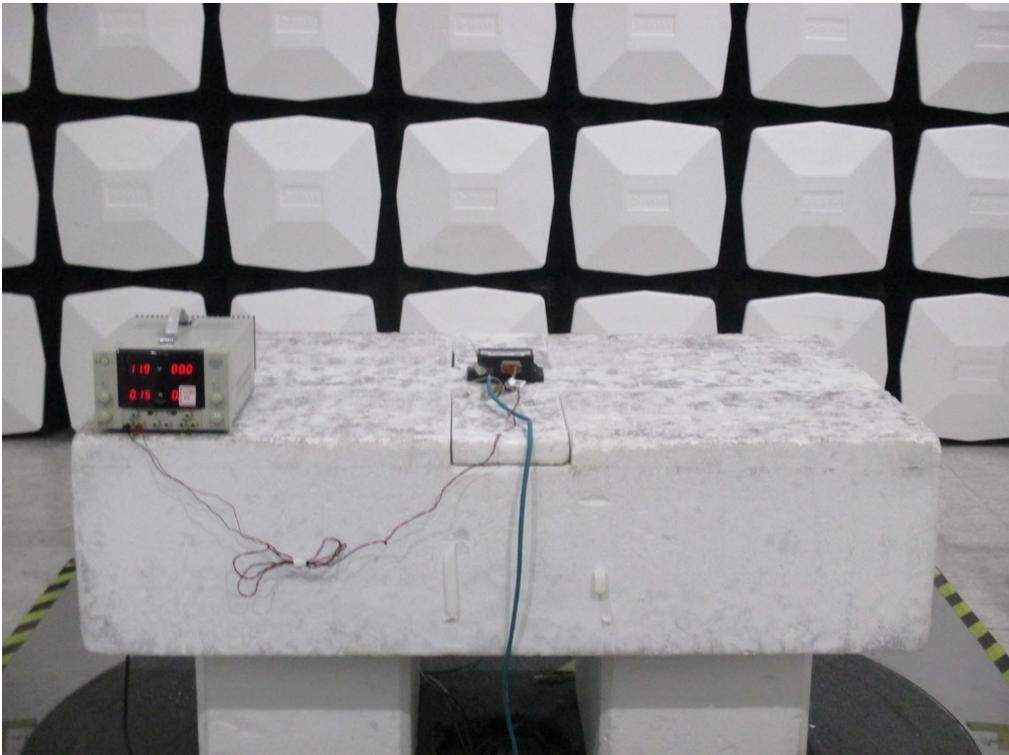
Appendix G. Test Setup Photograph

<Radiated Emission>

Description : Front View of Radiated Emission Test Setup (30 MHz ~ 1 GHz)



Description : Rear View of Radiated Emission Test Setup (30 MHz ~ 1 GHz)



Description : Front View of Radiated Emission Test Setup (Above 1 GHz)



Description : Rear View of Radiated Emission Test Setup (Above 1 GHz)

