



FCC RADIO TEST REPORT

FCC ID : 2AEUPBHARG081
Equipment : Battery Doorbell Plus
Brand Name : Ring
Model Name : 5F77E9
Applicant : Ring LLC
12515 Cerise Ave, Hawthorne, CA
90250, USA
Manufacturer : Ring LLC
12515 Cerise Ave, Hawthorne, CA
90250, USA
Standard : FCC Part 15 Subpart C §15.247

The product was received on Sep. 05, 2022 and testing was performed from Sep. 06, 2022 to Dec. 06, 2022. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Modification of EUT	5
1.3 Testing Location	6
1.4 Applicable Standards.....	6
2 Test Configuration of Equipment Under Test	7
2.1 Carrier Frequency and Channel	7
2.2 Test Mode.....	8
2.3 Connection Diagram of Test System.....	8
2.4 Support Unit used in test configuration and system	9
2.5 EUT Operation Test Setup	9
2.6 Measurement Results Explanation Example.....	9
3 Test Result	10
3.1 6dB and 99% Bandwidth Measurement	10
3.2 Output Power Measurement.....	13
3.3 Power Spectral Density Measurement	14
3.4 Conducted Band Edges and Spurious Emission Measurement	17
3.5 Radiated Band Edges and Spurious Emission Measurement	33
3.6 AC Conducted Emission Measurement.....	37
3.7 Antenna Requirements	39
4 List of Measuring Equipment.....	40
5 Uncertainty of Evaluation	42
Appendix A. Conducted Test Results	
Appendix B. AC Conducted Emission Test Result	
Appendix C. Radiated Spurious Emission	
Appendix D. Radiated Spurious Emission Plots	
Appendix E. Duty Cycle Plots	



History of this test report

Report No.	Version	Description	Issue Date
FR290506B	01	Initial issue of report	Dec. 13, 2022
FR290506B	02	Revise Appendix D. Radiated Spurious Emission Plots	Jan. 05, 2023
FR290506B	03	Revise Appendix B. AC Conducted Emission Test Result	Jan. 13, 2023
FR290506B	04	Revise EUT Operation Test Setup	Jan. 27, 2023



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.247(b)	Power Output Measurement	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges	Pass	-
		Conducted Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	3.03 dB under the limit at 7311.000 MHz
3.6	15.207	AC Conducted Emission	Pass	16.31 dB under the limit at 0.311 MHz
3.7	15.203	Antenna Requirement	Pass	-

Declaration of Conformity:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Uncertainty of Evaluation".

Comments and Explanations:

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Keven Cheng**Report Producer: Dewi Huang**



1 General Description

1.1 Product Feature of Equipment Under Test

Bluetooth-LE, Wi-Fi 2.4GHz 802.11b/g/n

Product Feature	
Antenna Type	WLAN: PIFA Antenna Bluetooth-LE: PIFA Antenna

Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	2.86

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

1.2 Modification of EUT

No modifications made to the EUT during the testing.



1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. CO05-HY, 03CH07-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

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 (TAF Code: 3786)
Remark	The RF Conducted test item subcontracted to Sporton International Inc. Wensan Laboratory.

FCC designation No.: TW1190 and TW3786

1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	8	2447
	2	2417	9	2452
	3	2422	10	2457
	4	2427	11	2462
	5	2432	12	2467
	6	2437	13	2472
	7	2442		

2.2 Test Mode

The final test modes include the worst data rates for each modulation shown in the table below.

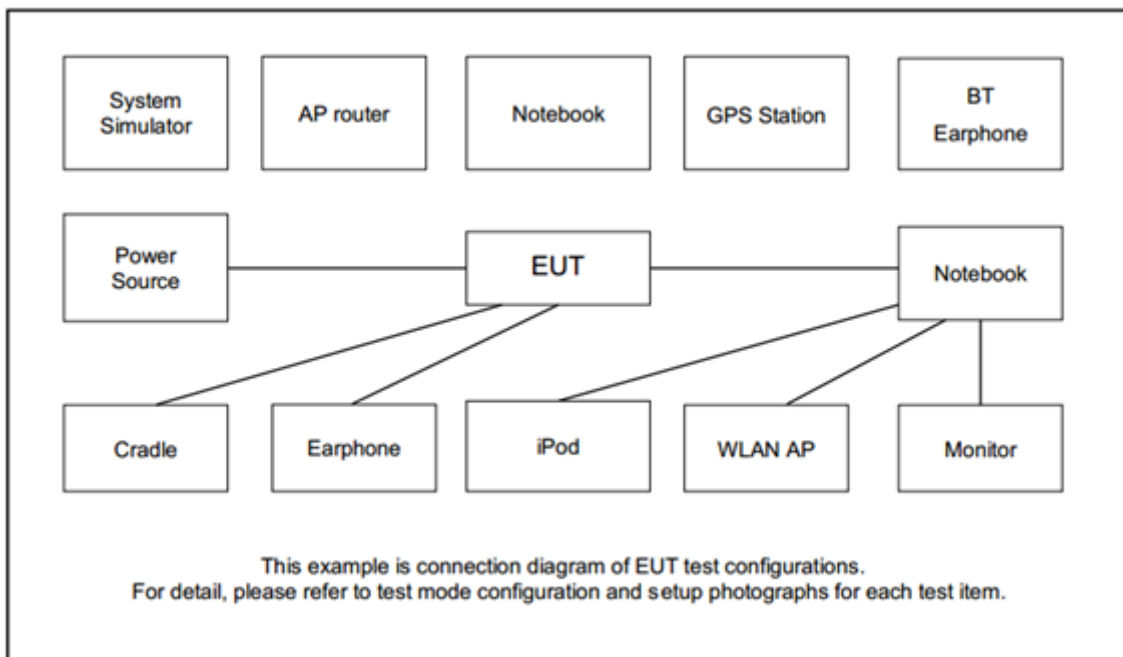
Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0

Test Cases	
AC Conducted Emission	Mode 1: Bluetooth-LE Link + Battery 5 + AC Transformer
	Mode 2: IR LED on + LED on + WLAN (2.4GHz) Link + 2-way Audio + Camera Video + Battery 5 + AC Transformer
Remark: The worst case of Conducted Emission is mode 2; only the test data of it was reported.	

Ch. #	2400-2483.5 MHz		
	802.11b	802.11g	802.11n HT20
Low	01	01	01
Middle	06	06	06
High	11, 12, 13	11, 12, 13	11, 12, 13

Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.3 Connection Diagram of Test System





2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Mobile Phone	SAMSUNG	SM-A730F/DS	A3LSMA730F	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “RF QA 0.3.2.8” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
6. Measure and record the results in the test report.

3.1.4 Test Setup

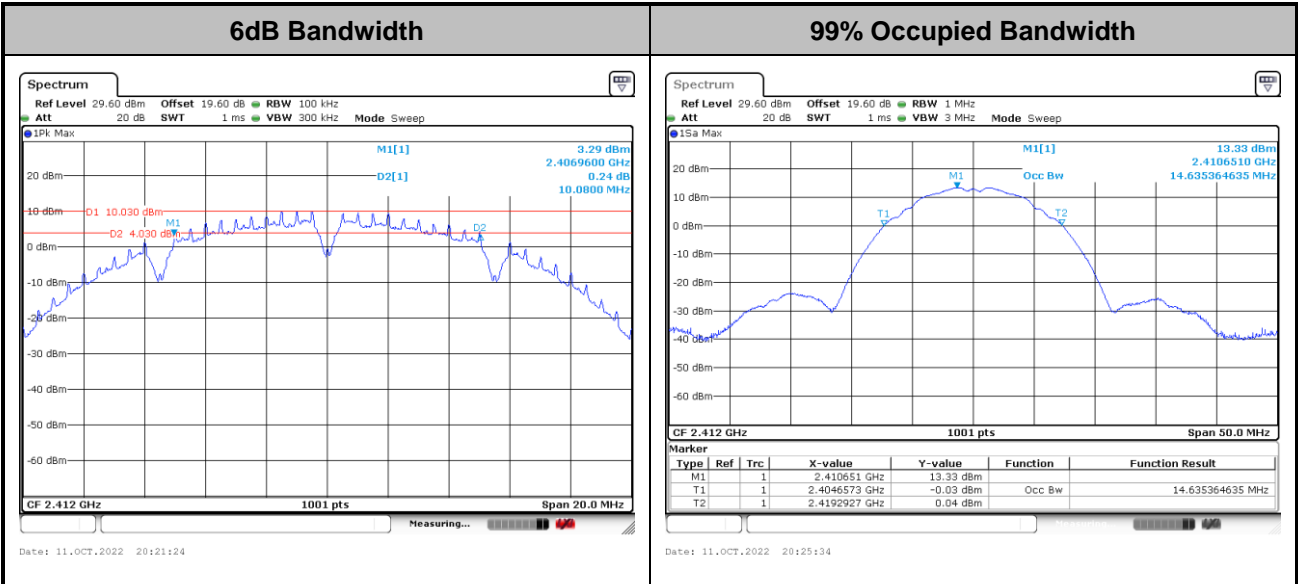




3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

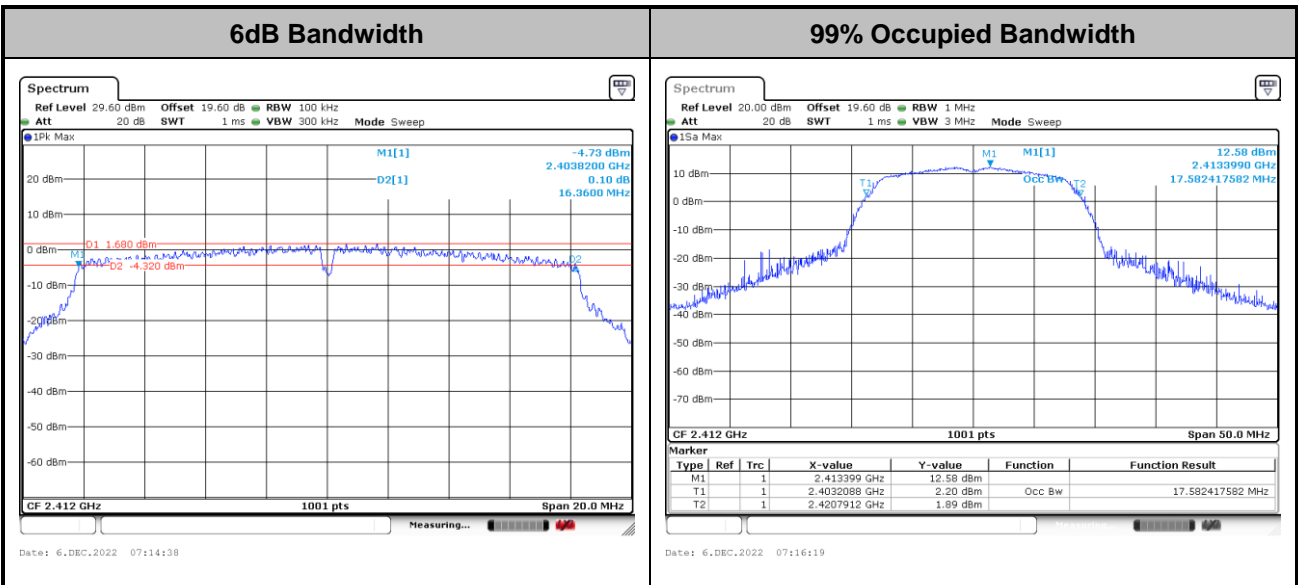
Please refer to Appendix A.

<802.11b>



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

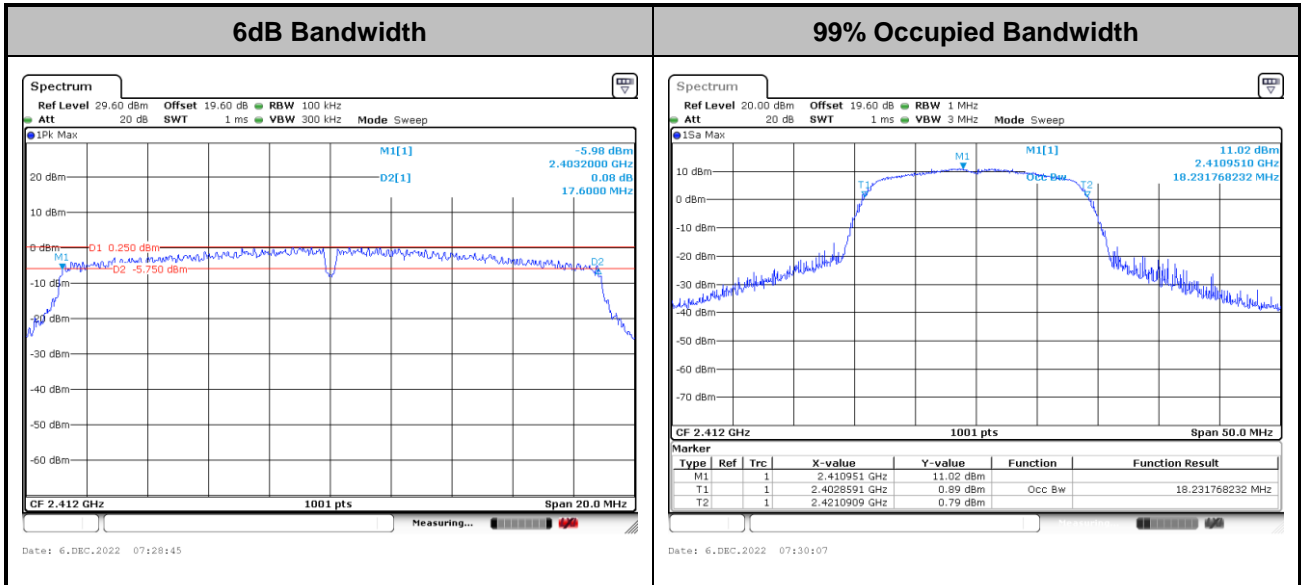
<802.11g>



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



<802.11n HT20>



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5 MHz, the limit for output power is 30 dBm. If transmitting antenna with directional gain greater than 6 dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

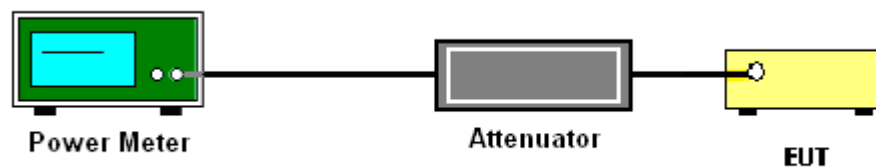
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
2. The RF output of EUT is connected to the power meter by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Average Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band at any time interval of continuous transmission.

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.

3.3.4 Test Setup

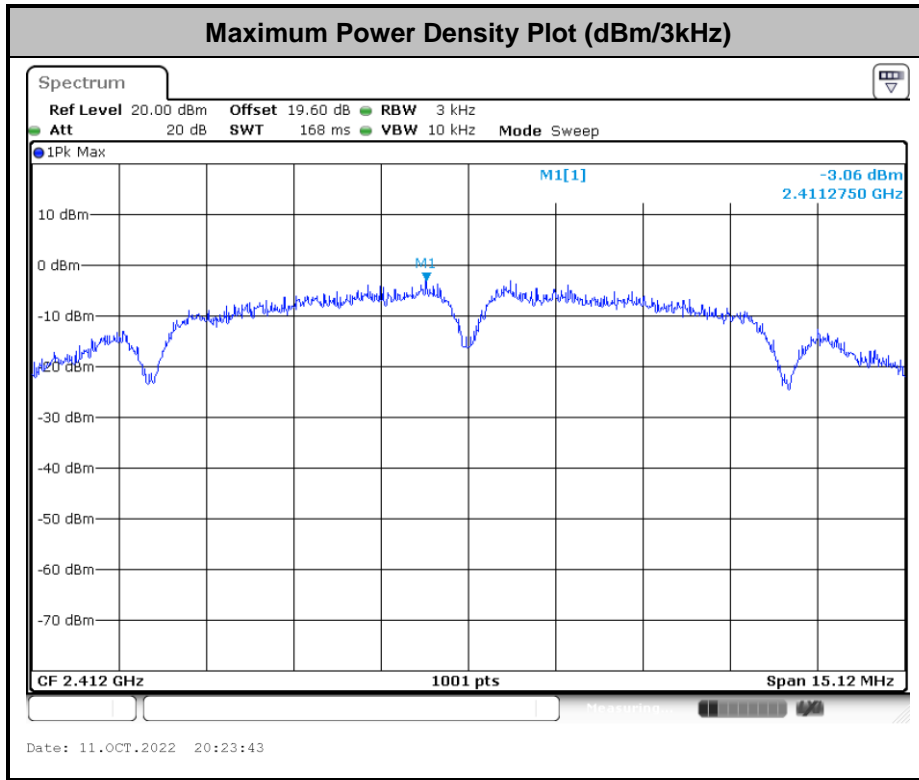


3.3.5 Test Result of Power Spectral Density

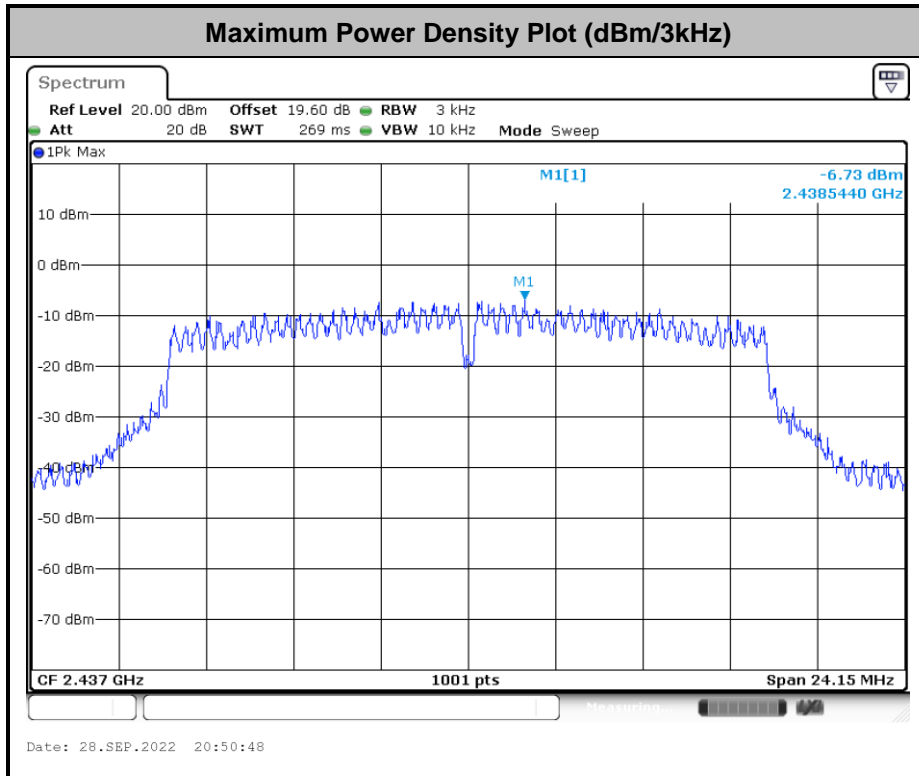
Please refer to Appendix A.



<802.11b>

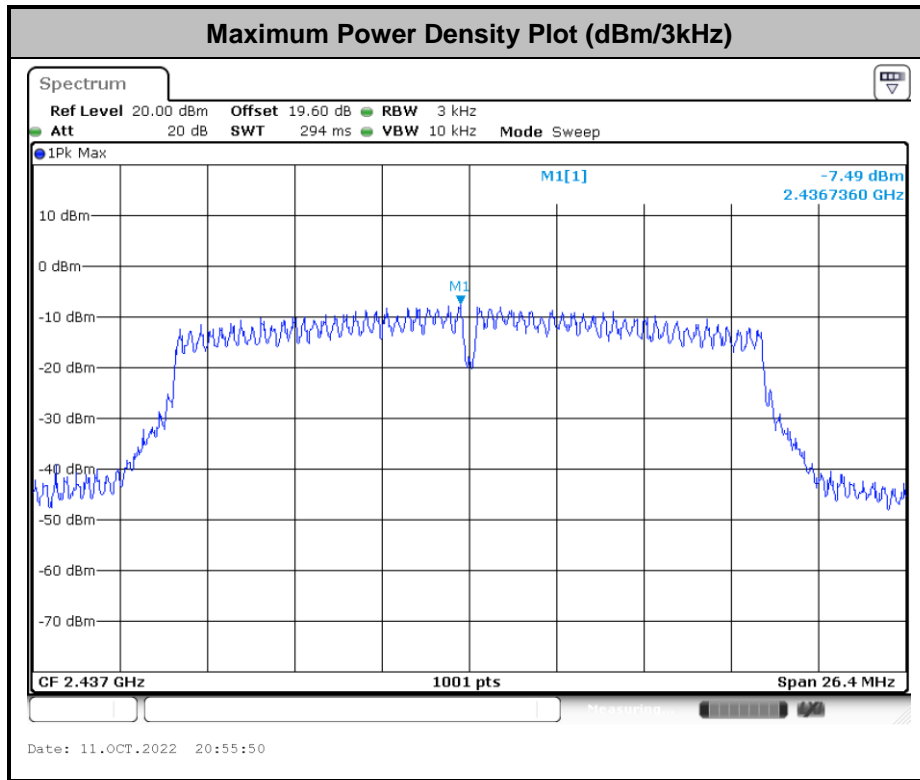


<802.11g>





<802.11n HT20>



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

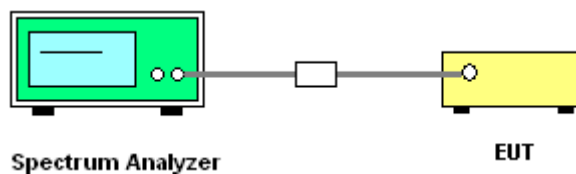
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits 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 per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup

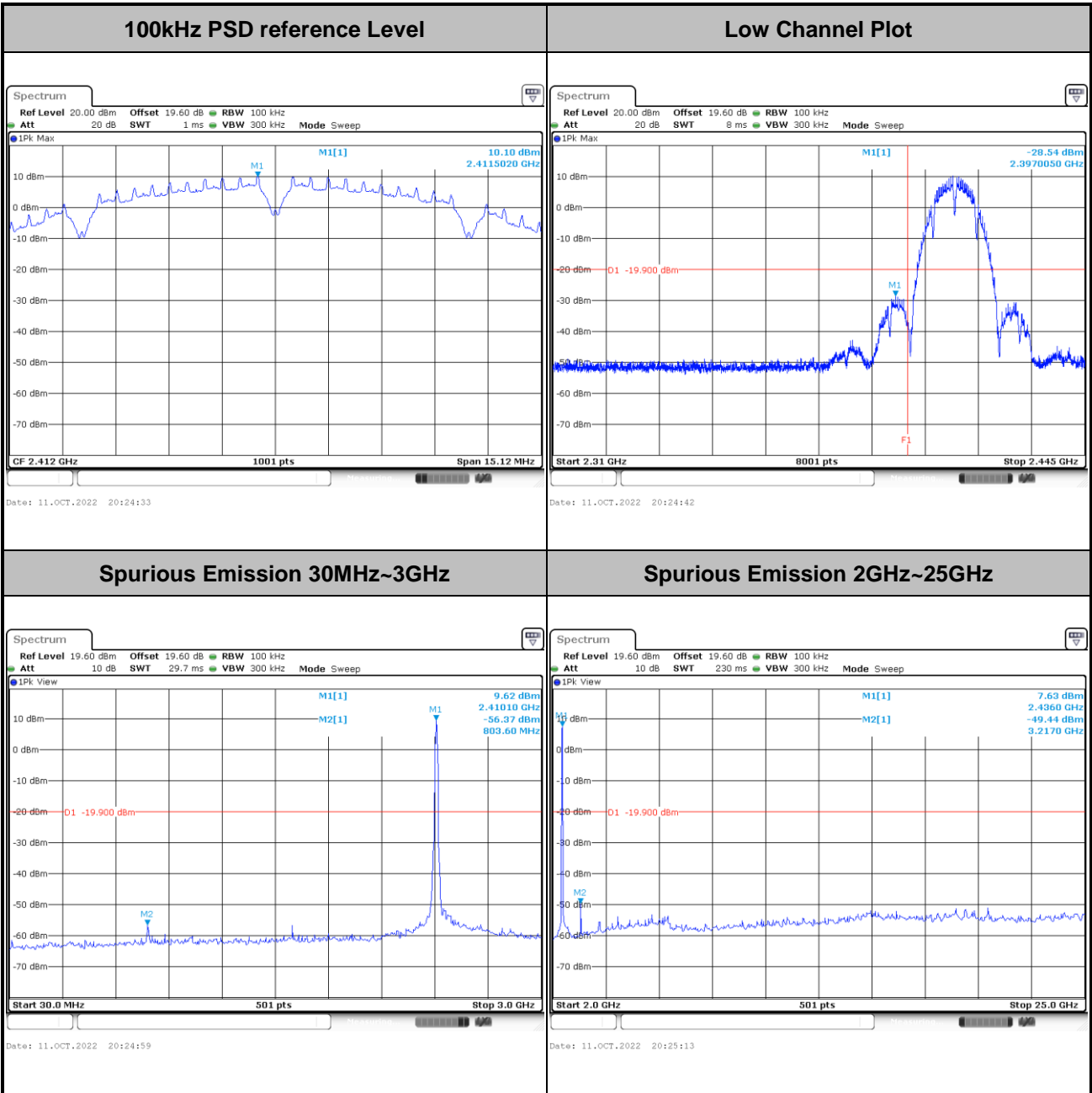




3.4.5 Test Result of Conducted Band Edges and Spurious Emission

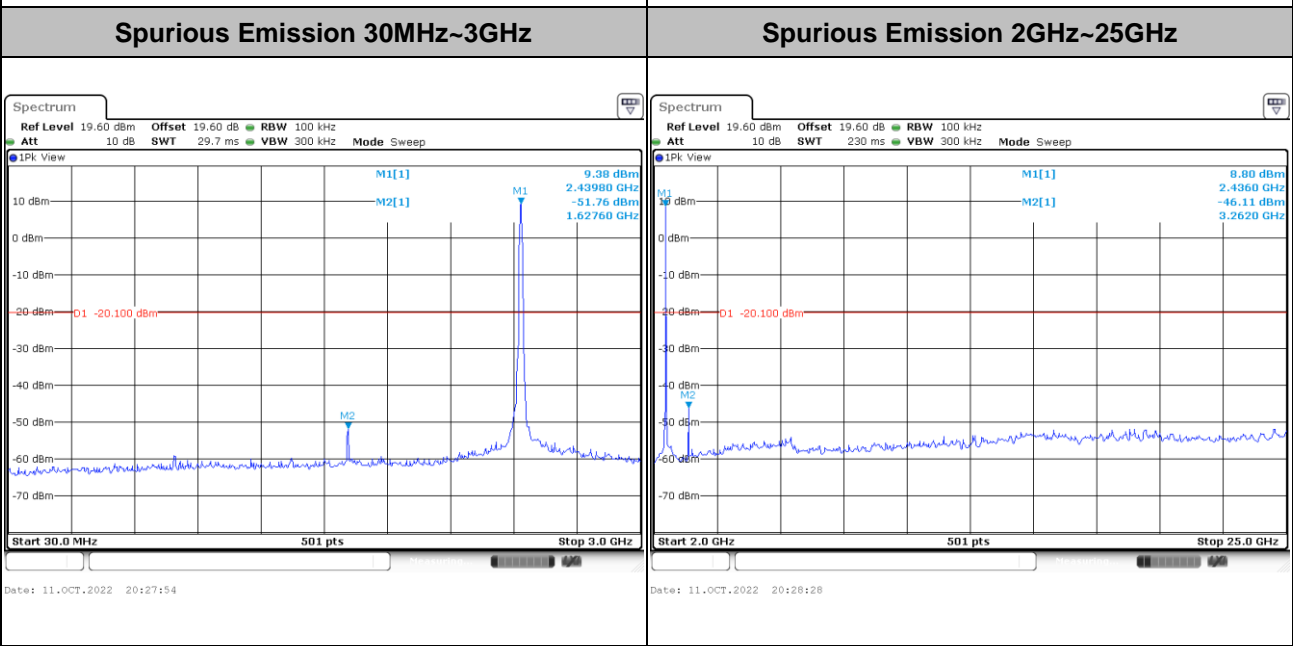
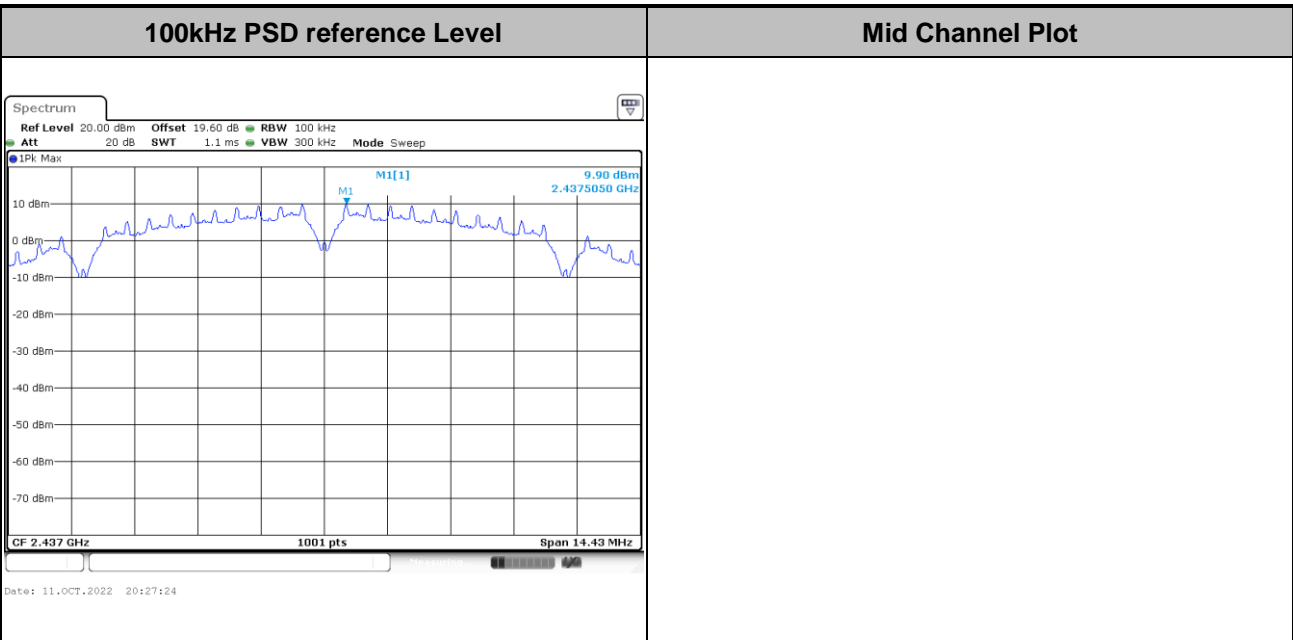
Number of TX = 1, Ant. 1 (Measured)

Test Mode :	802.11b	Test Channel :	01
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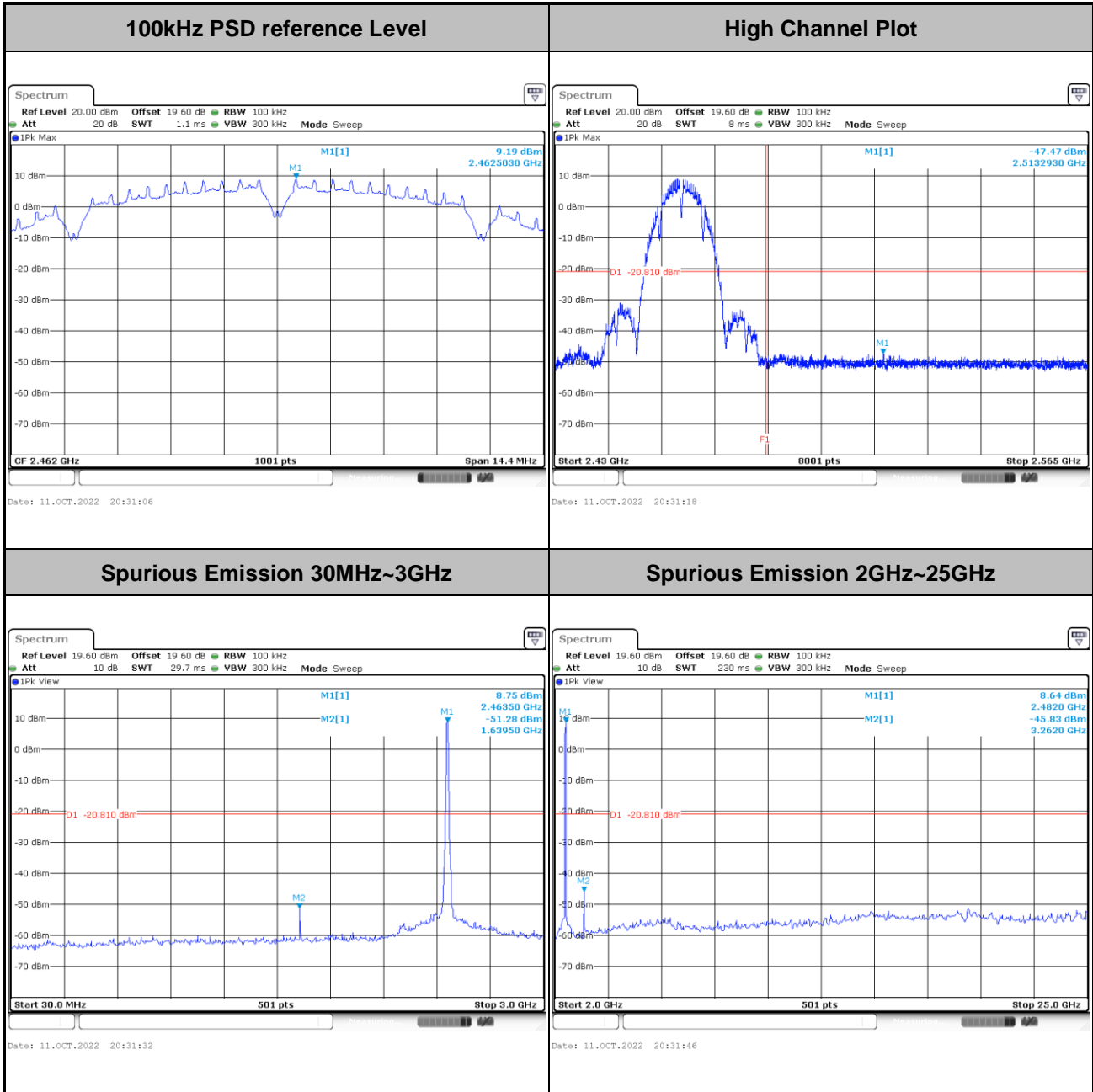


Test Mode :	802.11b	Test Channel :	06
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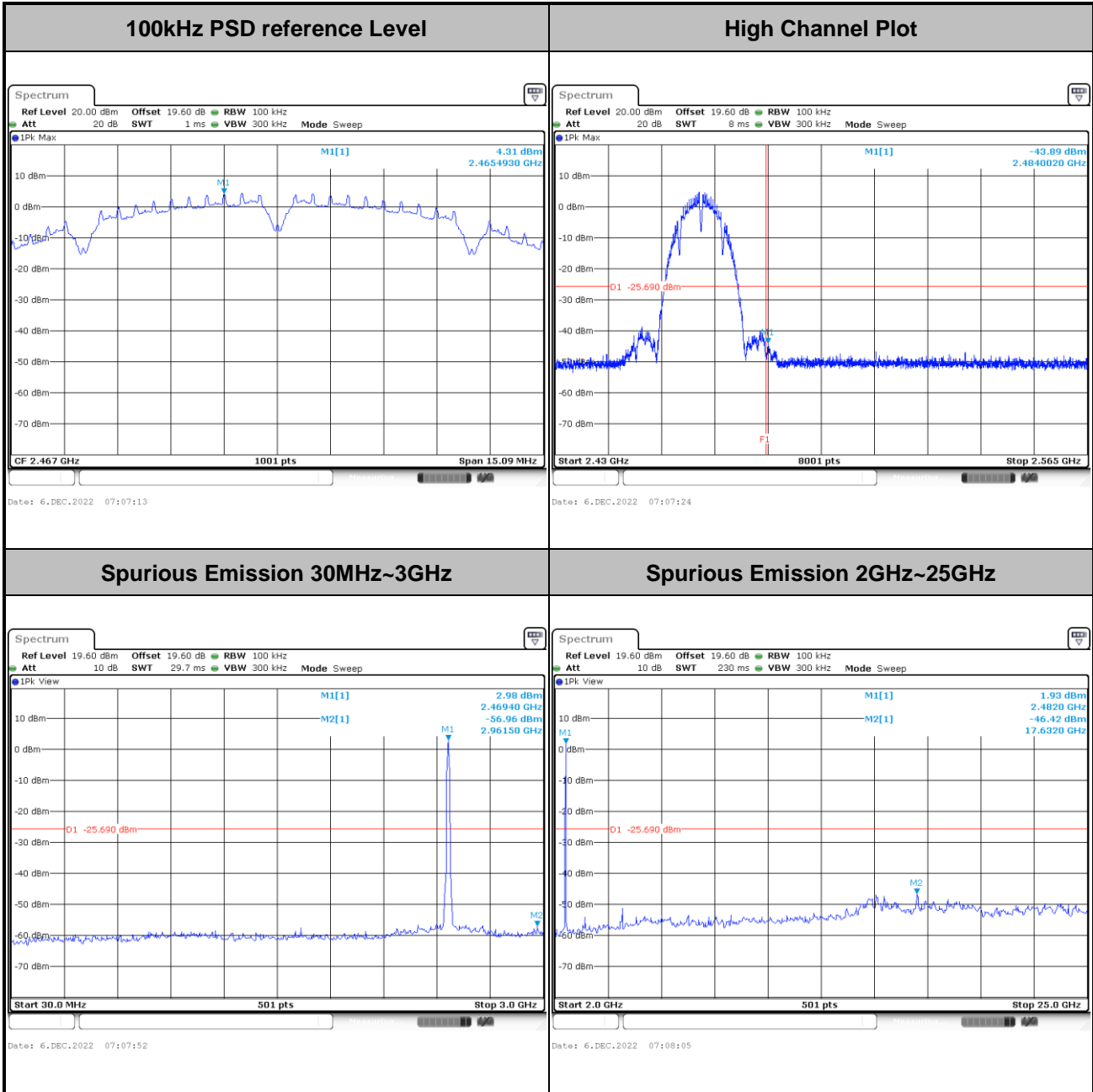


Test Mode :	802.11b	Test Channel :	11
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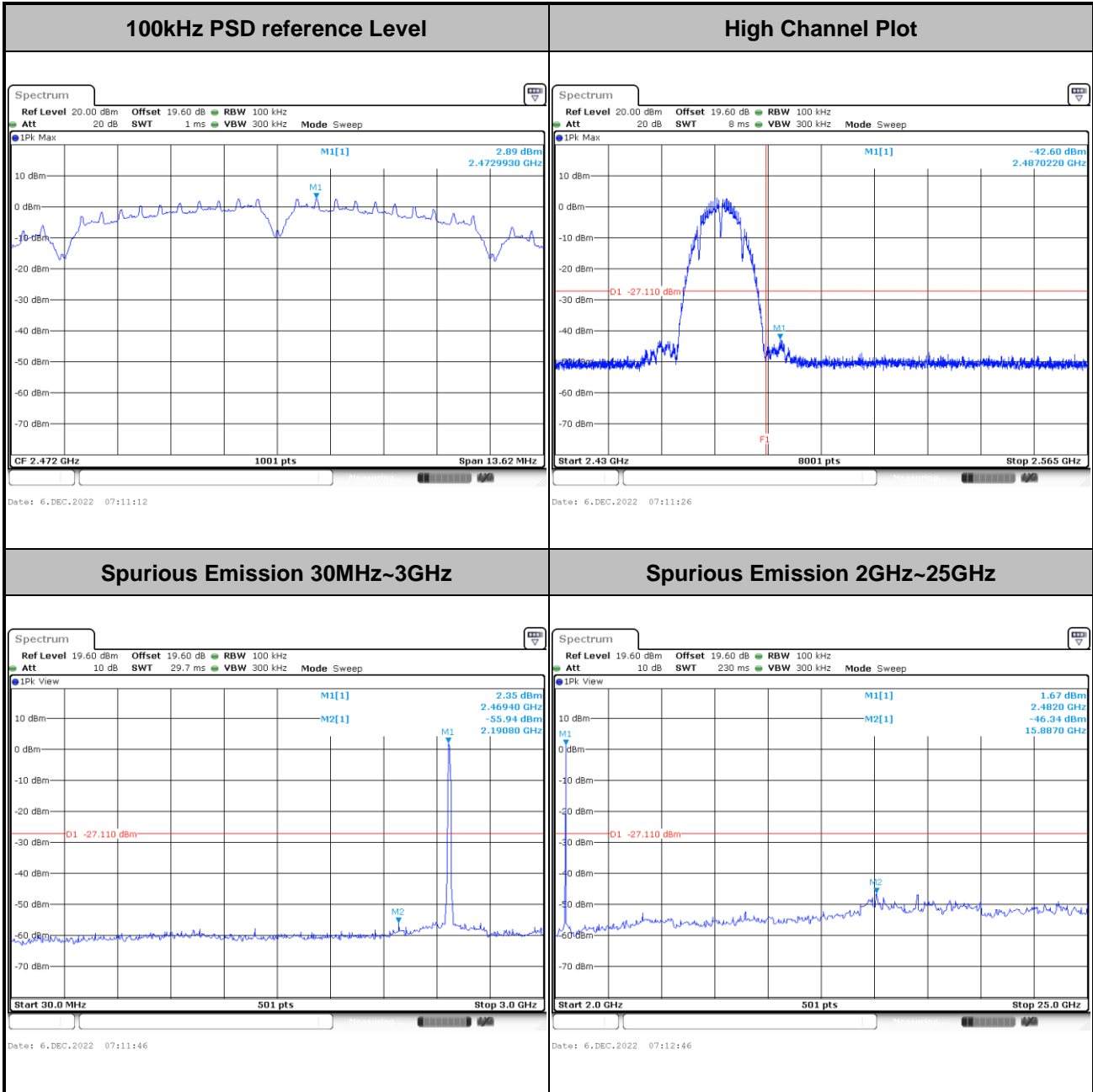


Test Mode :	802.11b	Test Channel :	12
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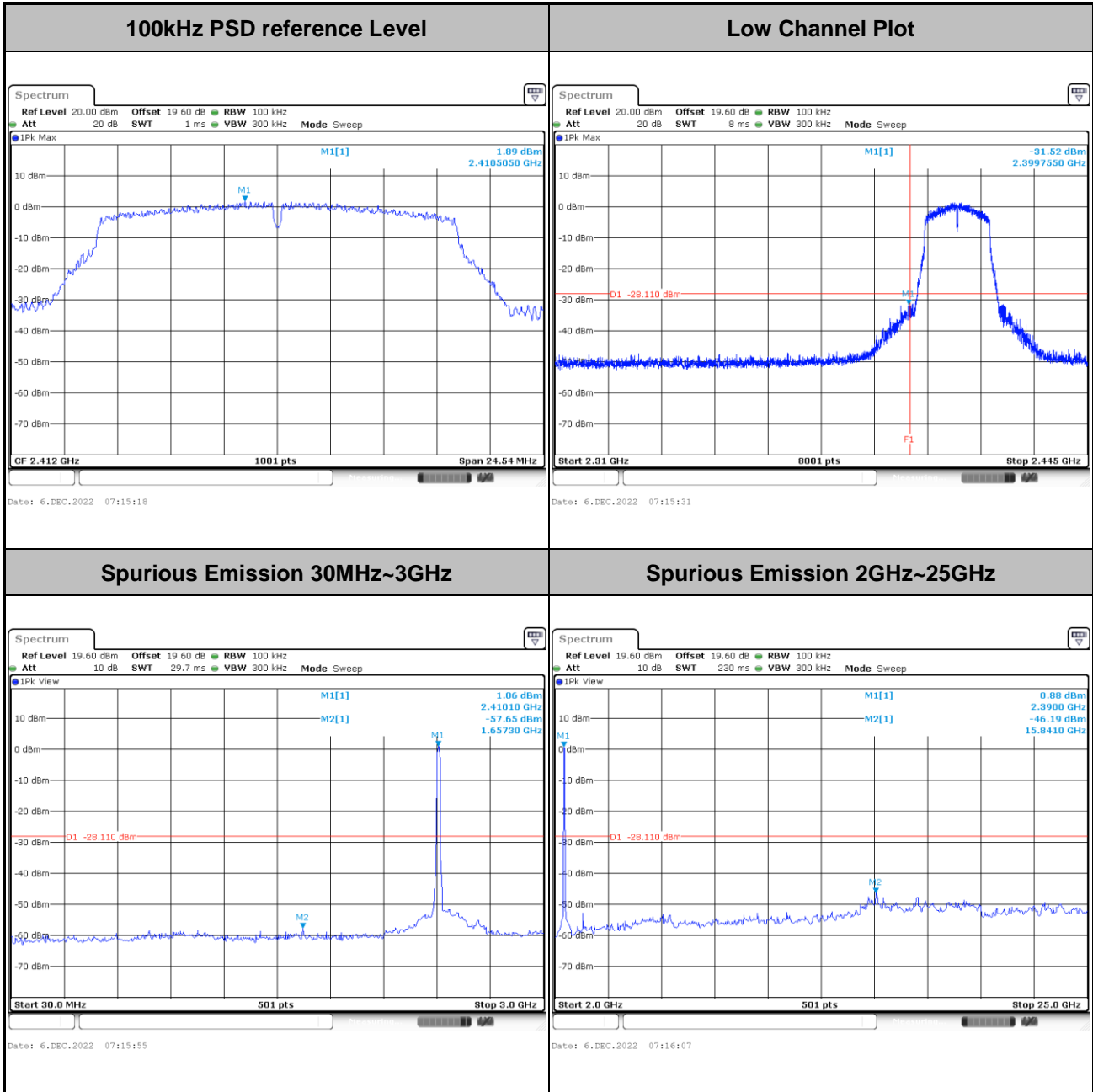


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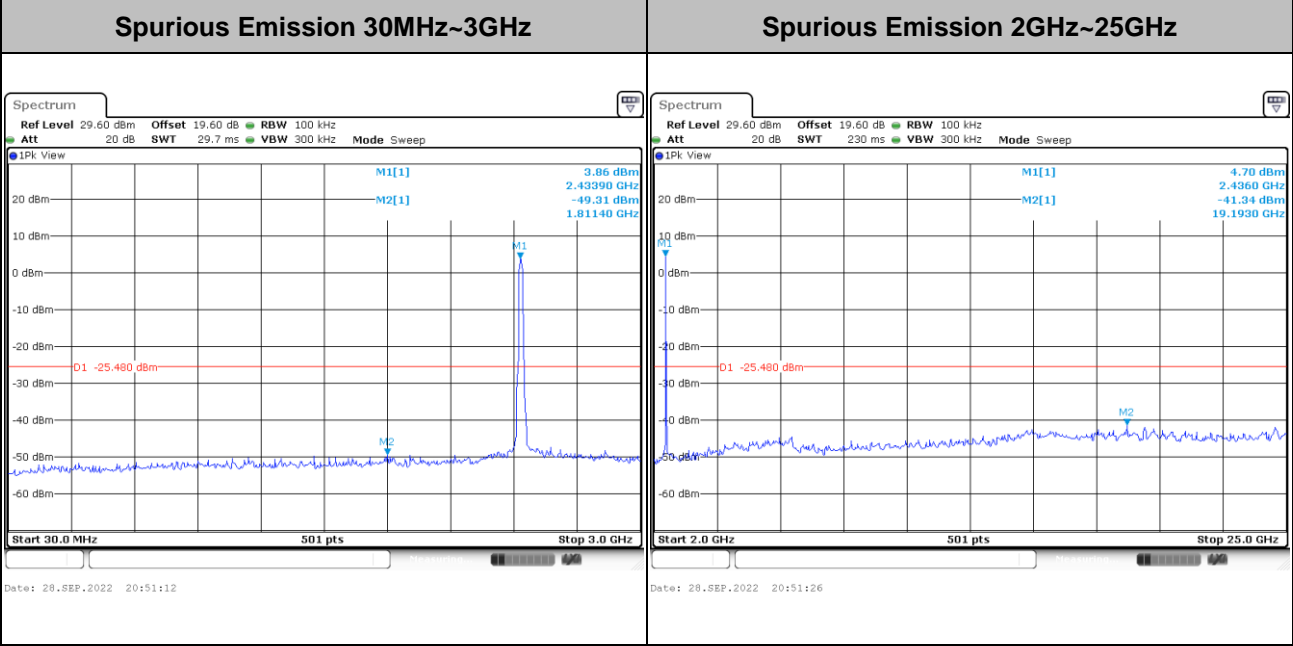
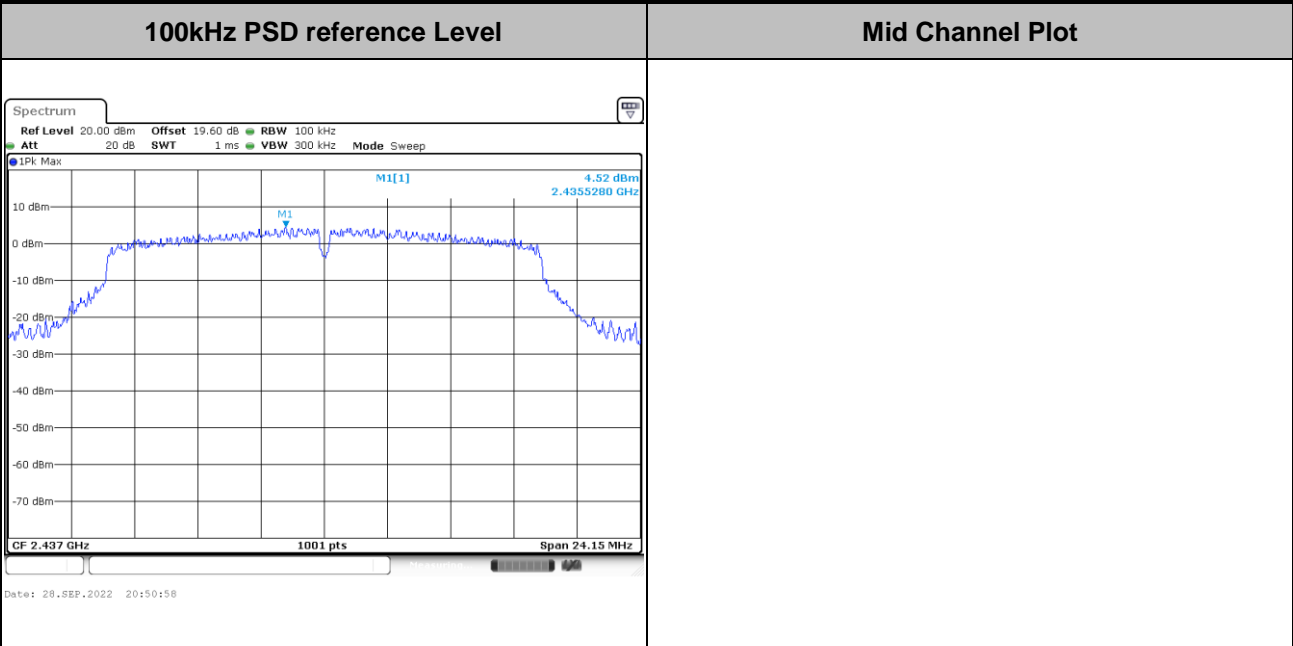


Test Mode :	802.11g	Test Channel :	01
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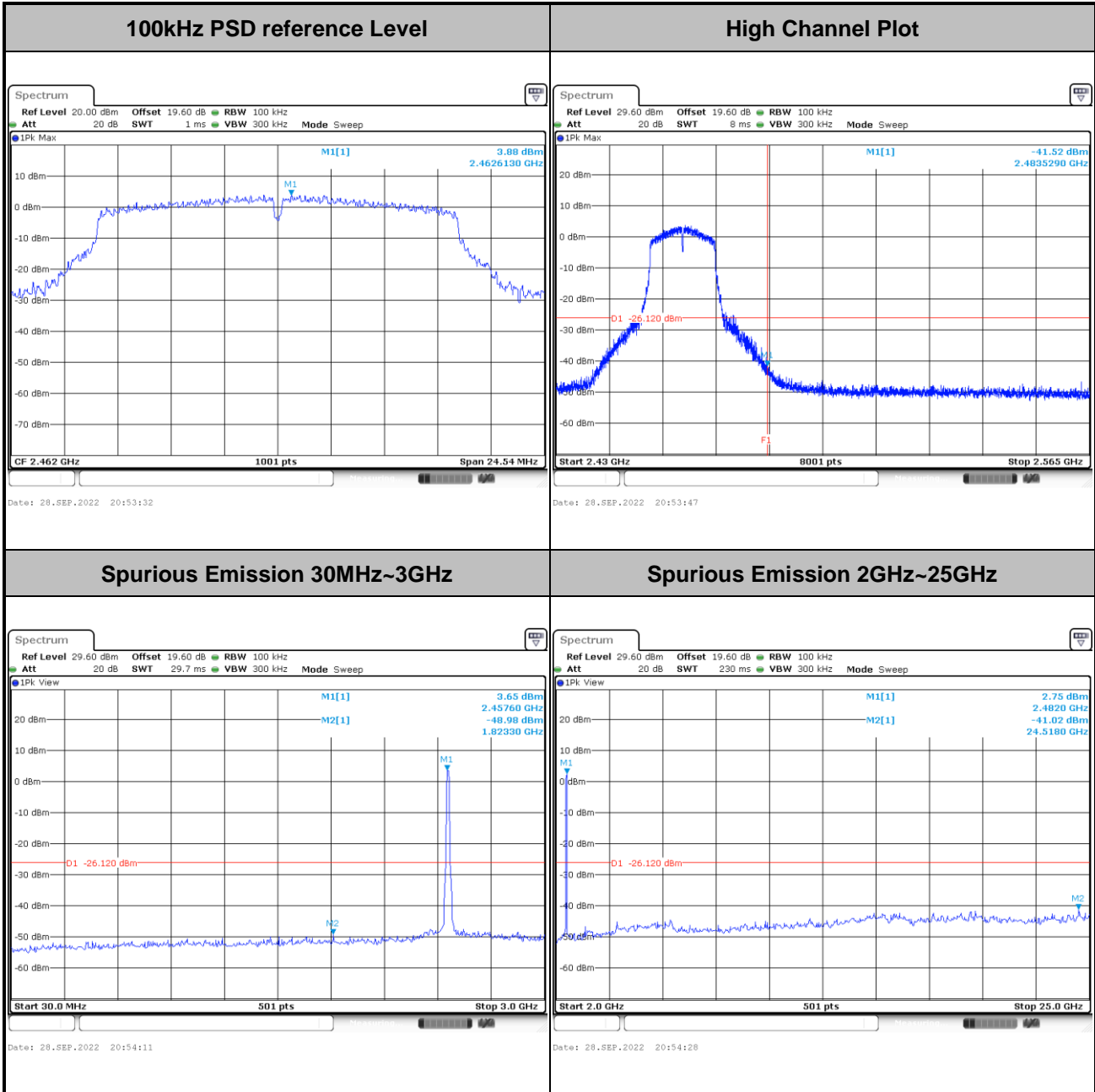


Test Mode :	802.11g	Test Channel :	06
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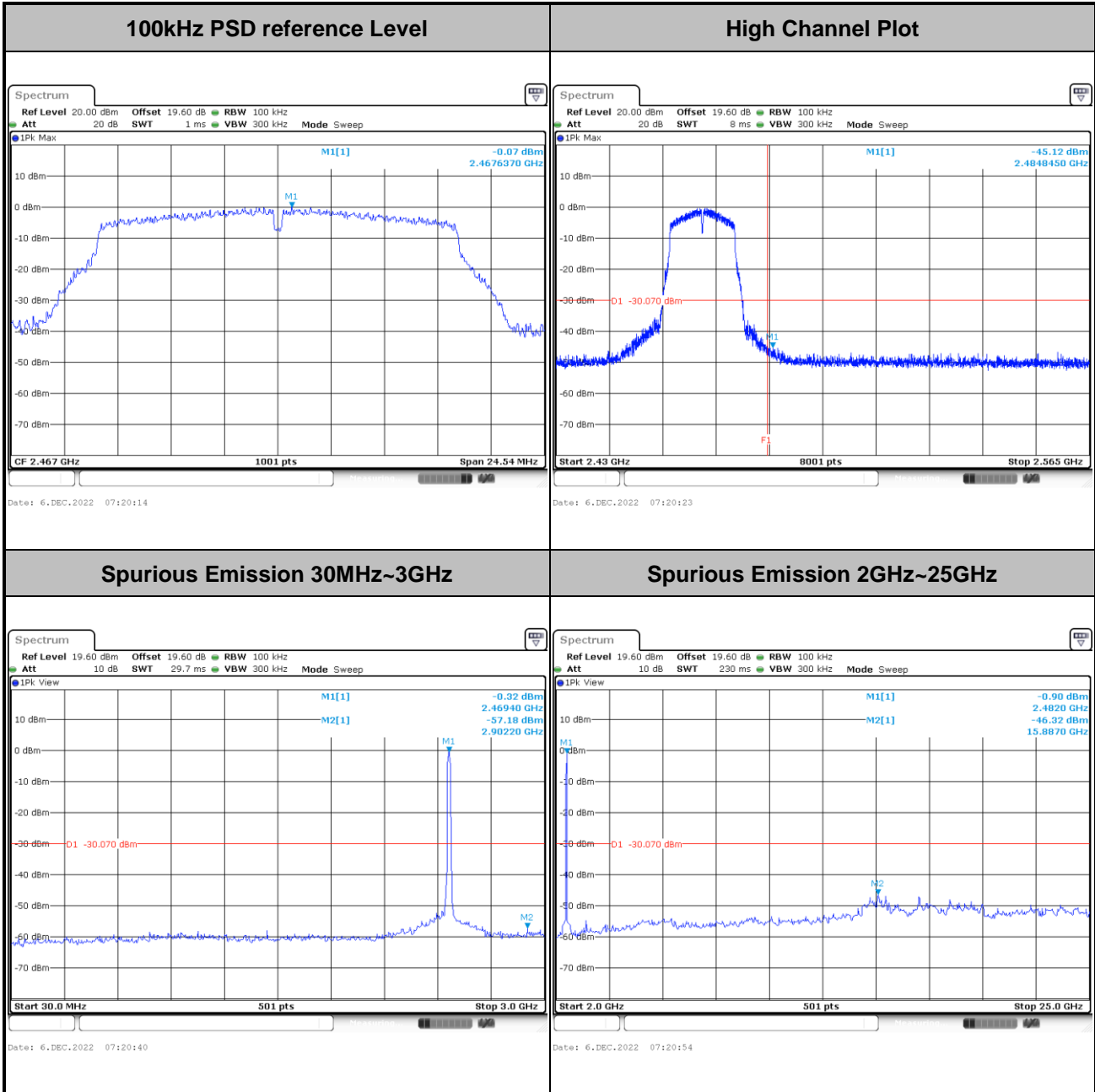


Test Mode :	802.11g	Test Channel :	11
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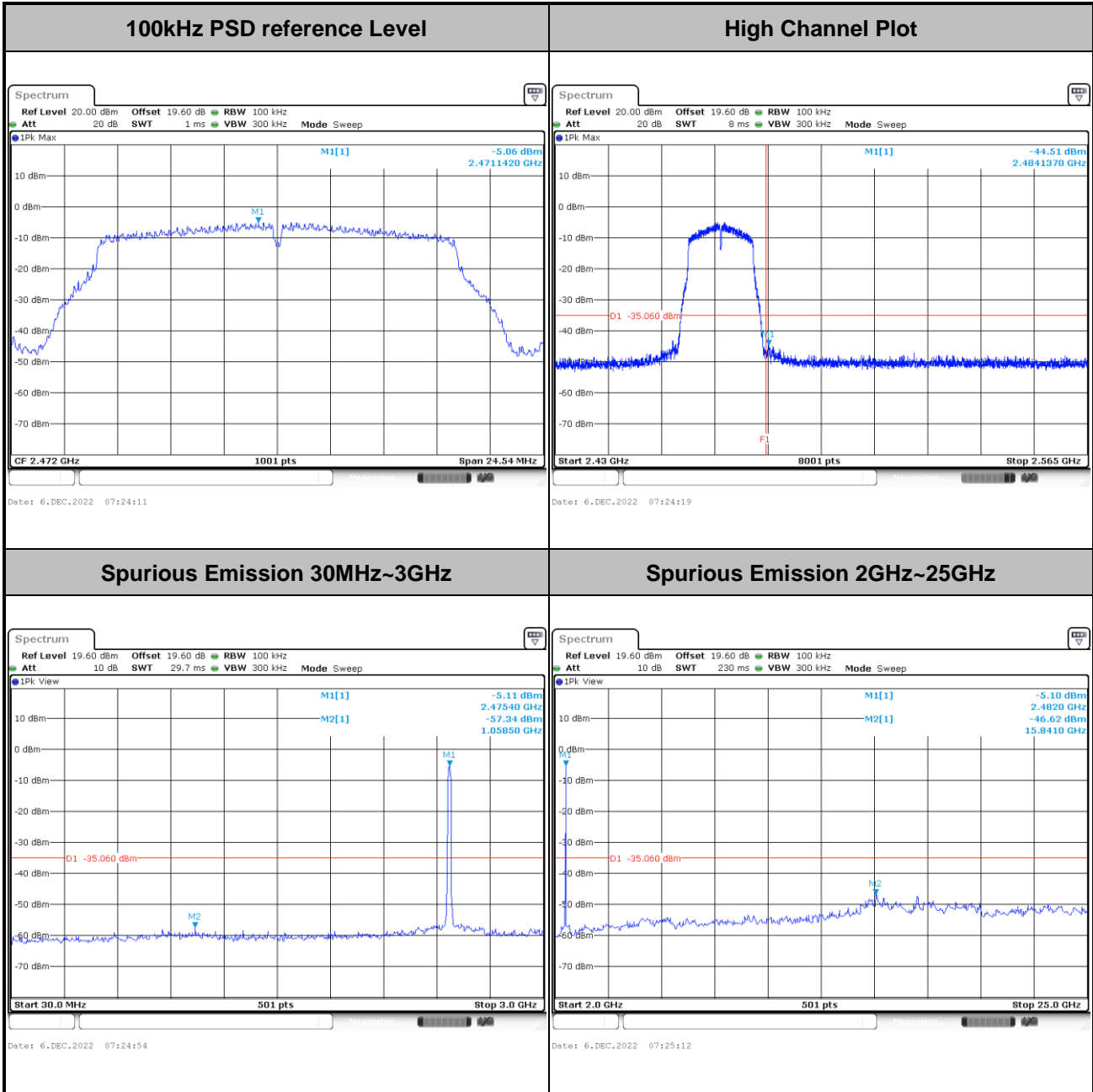


Test Mode :	802.11g	Test Channel :	12
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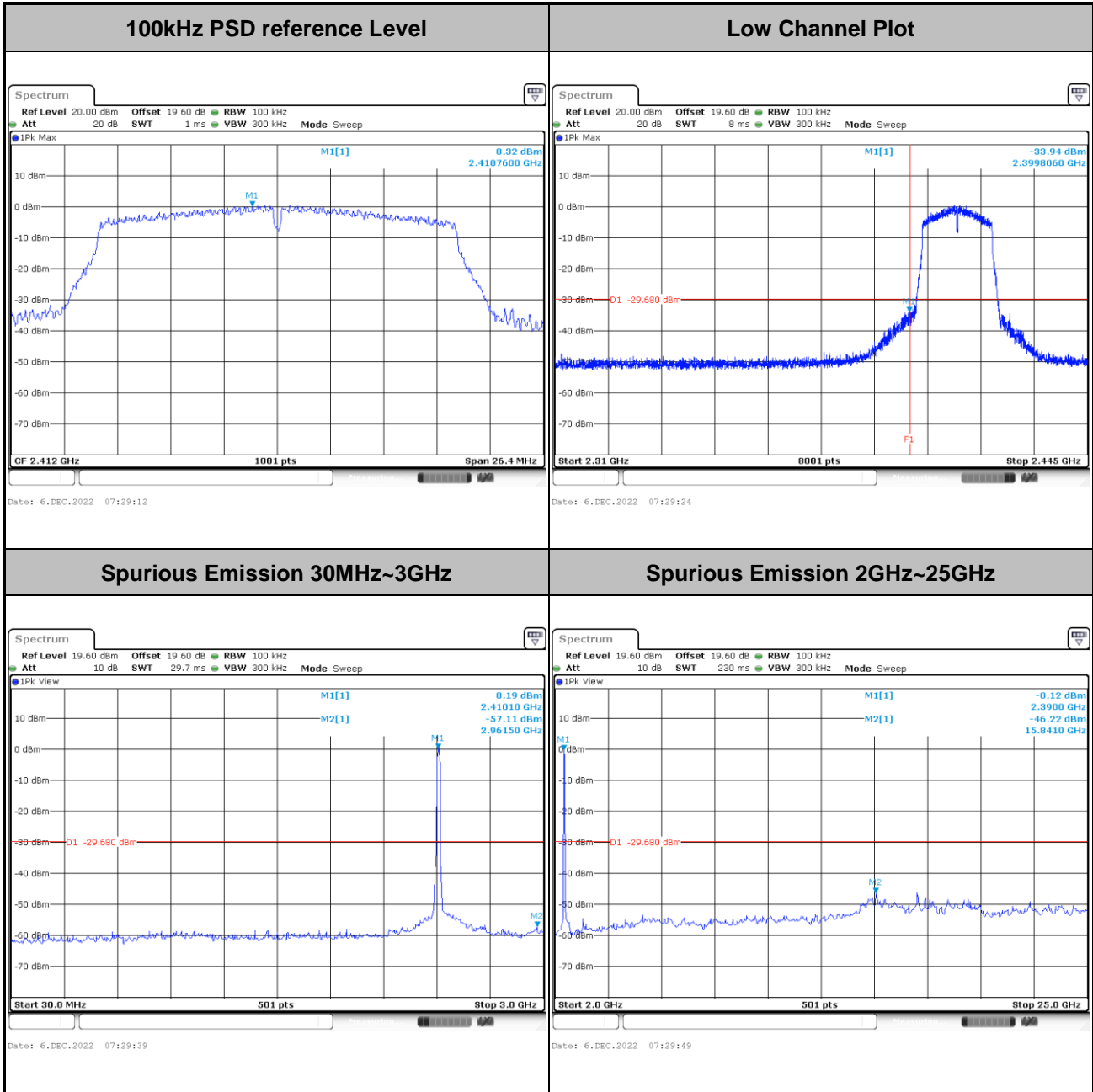


Test Mode :	802.11g	Test Channel :	13
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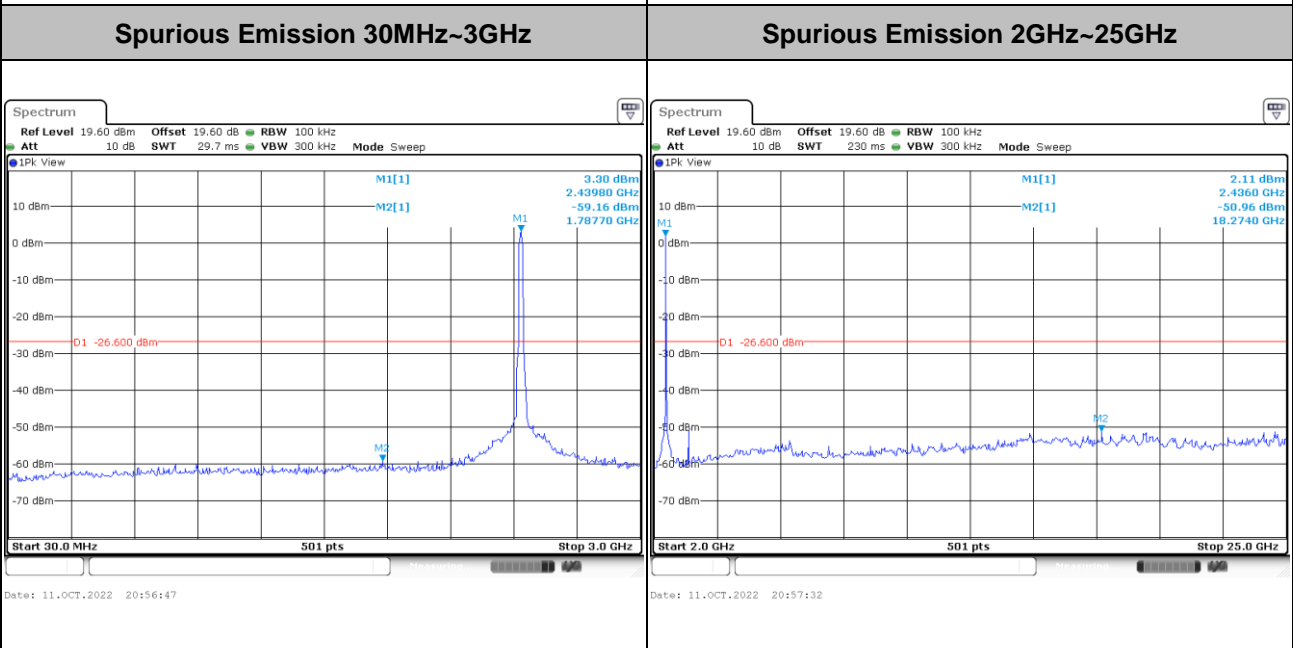
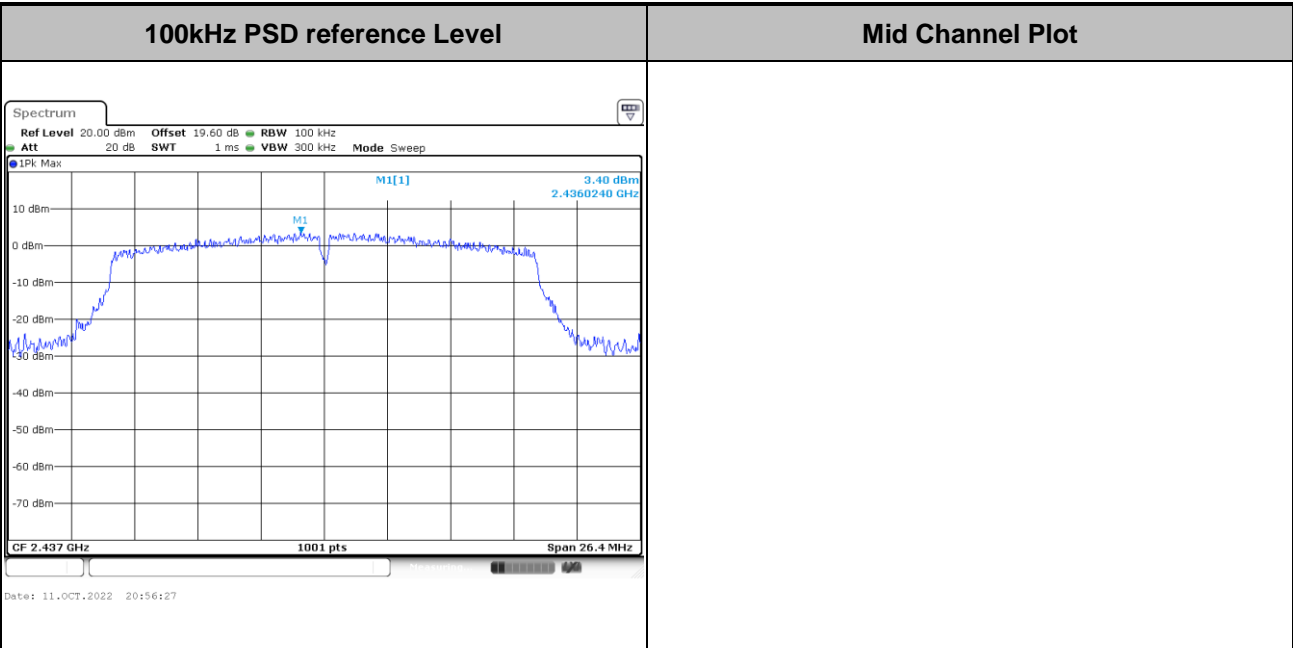


Test Mode :	802.11n HT20	Test Channel :	01
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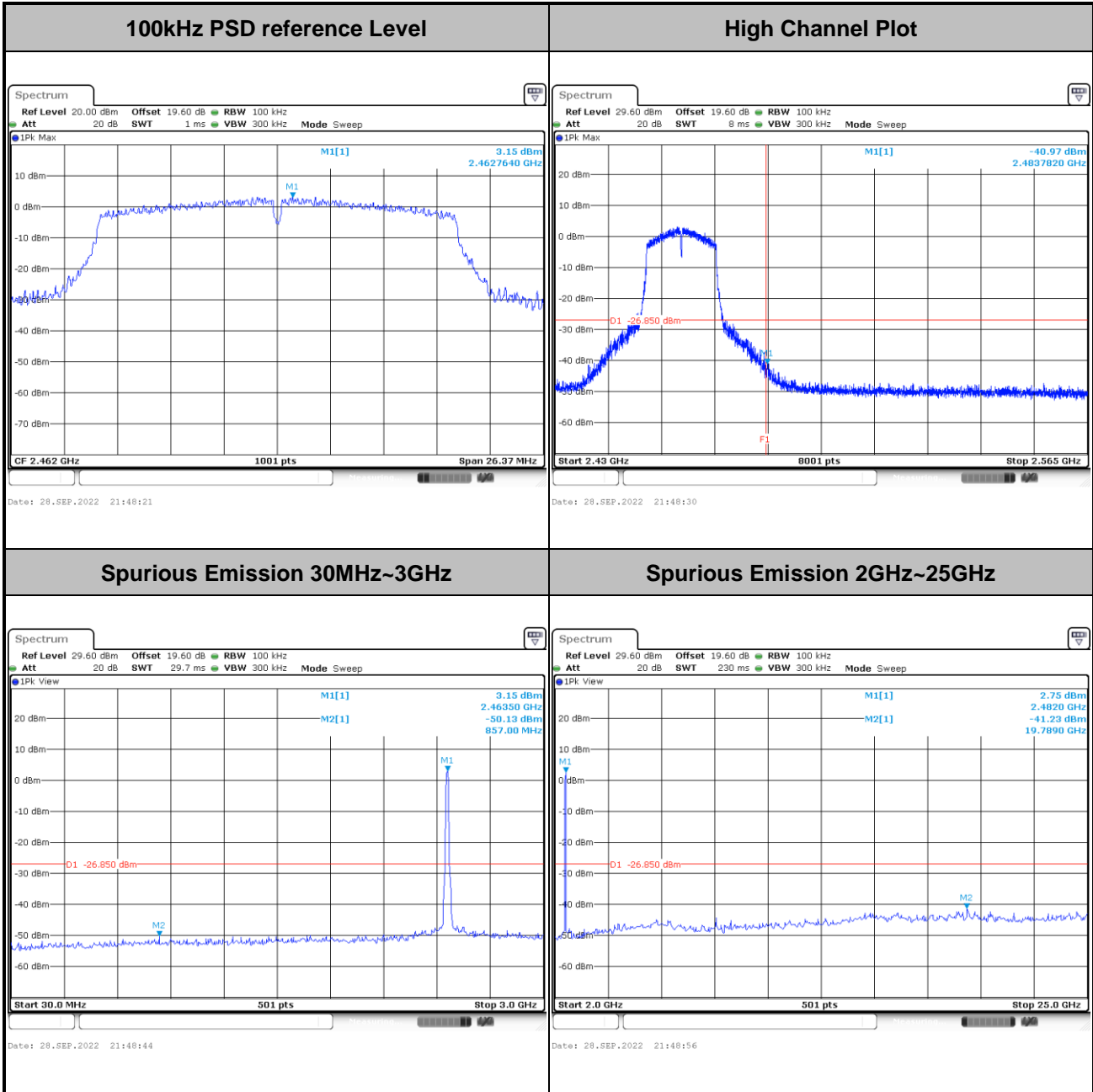


Test Mode :	802.11n HT20	Test Channel :	06
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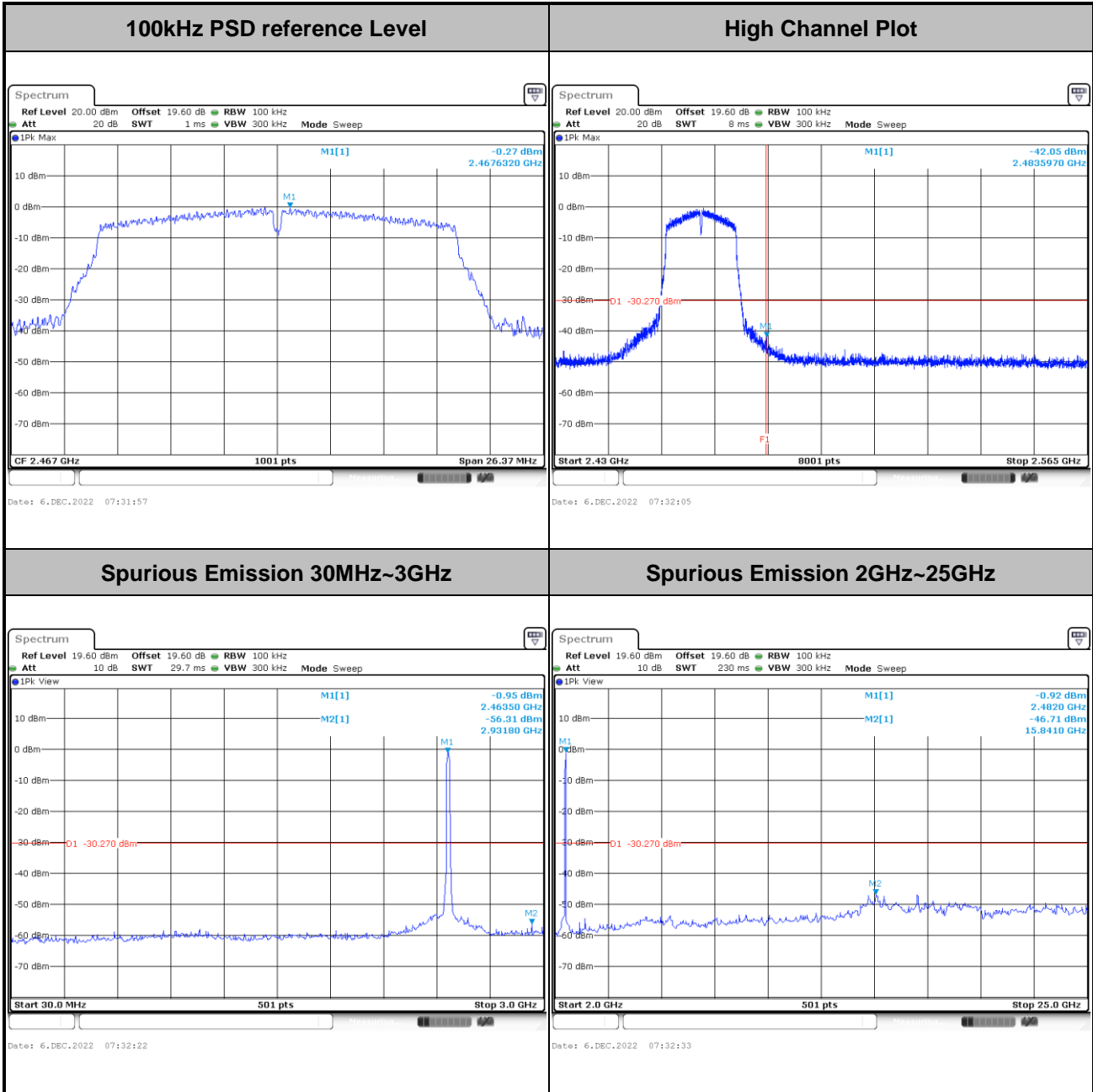


Test Mode :	802.11n HT20	Test Channel :	11
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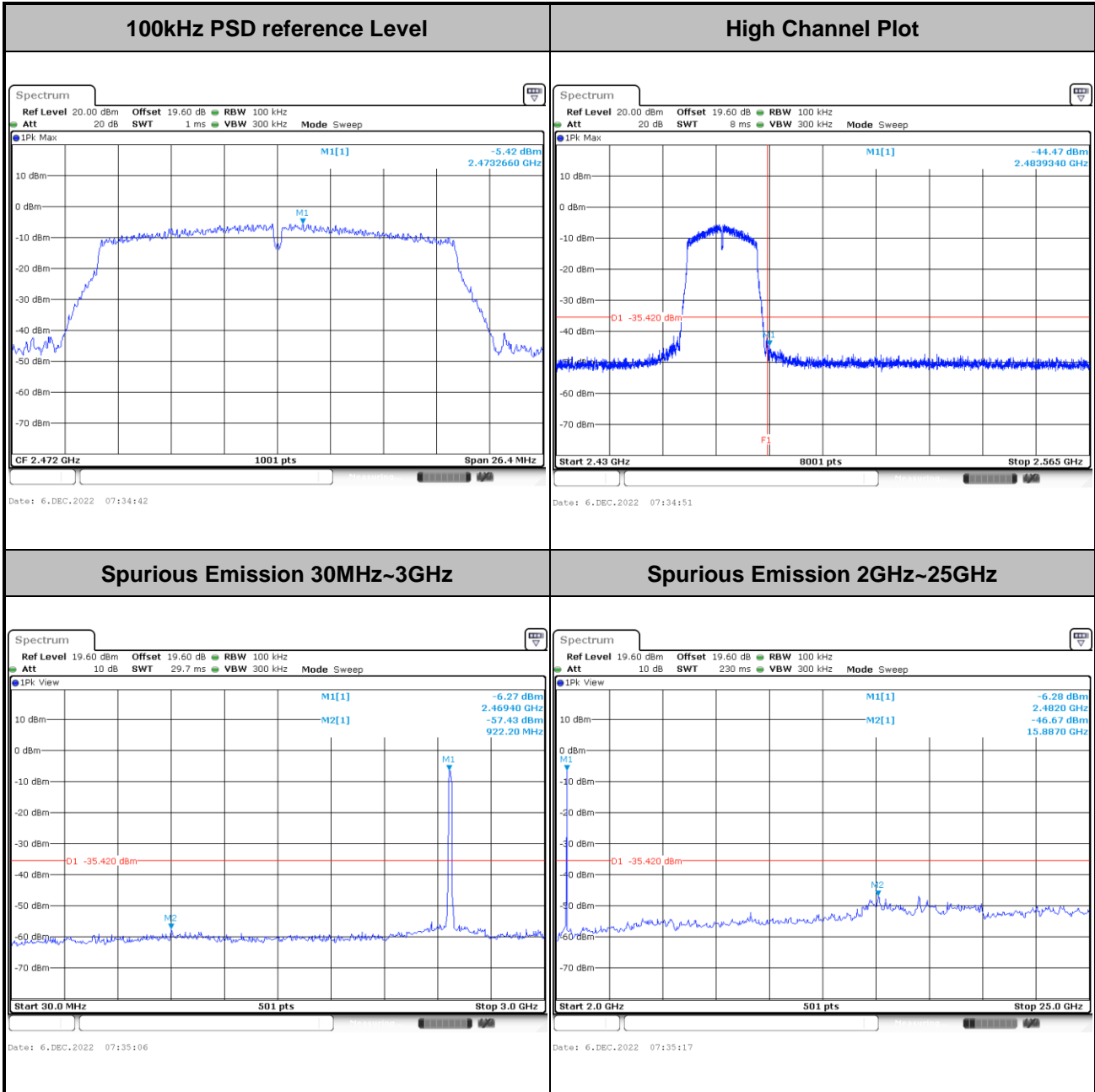


Test Mode :	802.11n HT20	Test Channel :	12
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Test Mode :	802.11n HT20	Test Channel :	13
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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device is measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.5.2 Measuring Instruments

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

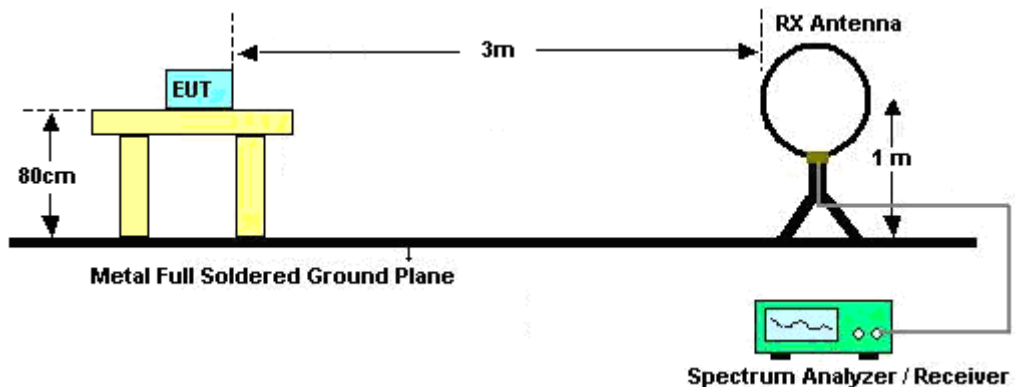
3.5.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-“.

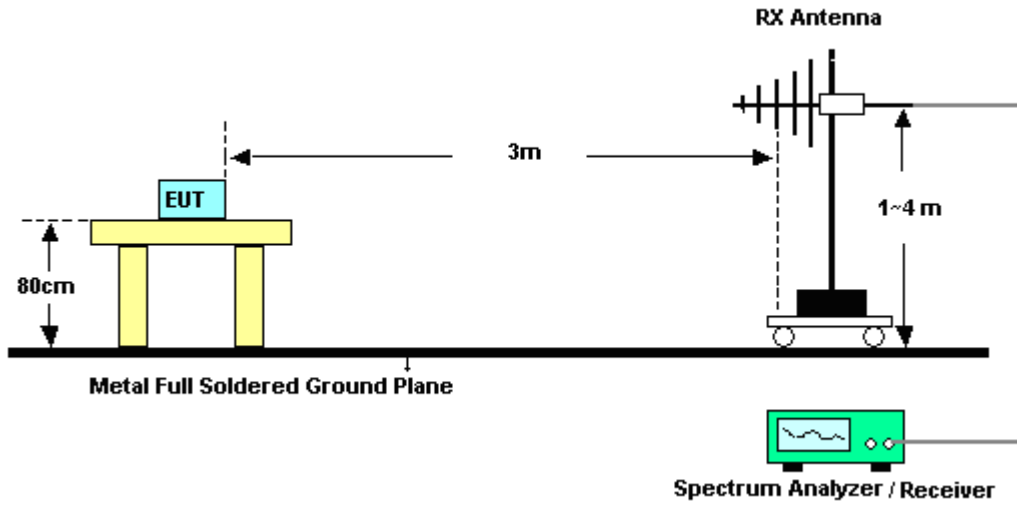
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-“.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW = 100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3 MHz for $f \geq 1$ GHz for peak measurement.For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

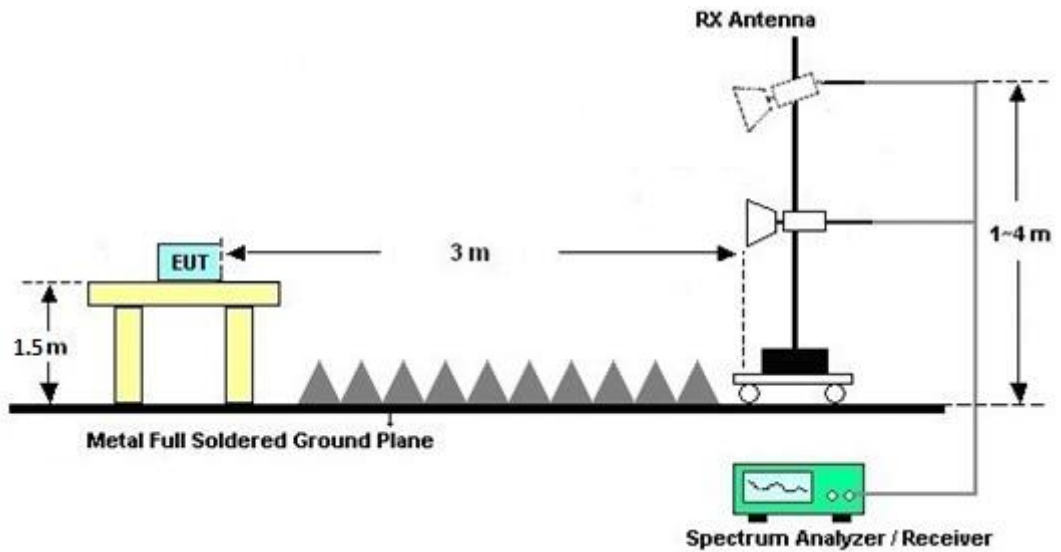
For radiated emissions below 30MHz



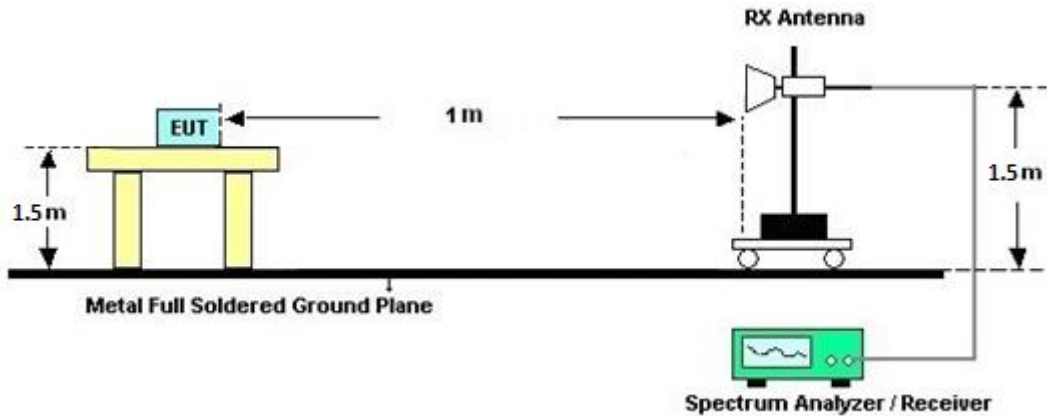
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.5.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.



3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dBµV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 Standard Applicable

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	35419 & 03	30MHz~1GHz	Apr. 24, 2022	Sep. 06, 2022~Dec. 02, 2022	Apr. 23, 2023	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 03, 2021	Sep. 06, 2022~Oct. 19, 2022	Dec. 02, 2022	Radiation (03CH07-HY)
Double Ridge Horn Antenna	EMCO	3117	00227856	1GHz ~ 18GHz	Sep. 27, 2022	Nov. 25, 2022~Dec. 02, 2022	Sep. 26, 2023	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 07, 2022	Sep. 06, 2022~Dec. 02, 2022	Jan. 06, 2023	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 21, 2022	Sep. 06, 2022~Dec. 02, 2022	Apr. 20, 2023	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Oct. 04, 2021	Sep. 06, 2022~Oct. 02, 2022	Oct. 03, 2022	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Oct. 04, 2021	Sep. 06, 2022~Oct. 02, 2022	Oct. 03, 2022	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Oct. 03, 2022	Oct. 03, 2022 ~ Dec. 02, 2022	Oct. 02, 2023	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Oct. 03, 2022	Oct. 03, 2022 ~ Dec. 02, 2022	Oct. 02, 2023	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Jul. 21, 2022	Sep. 06, 2022~Oct. 19, 2022	Jul. 20, 2023	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Jul. 22, 2022	Sep. 06, 2022~Dec. 02, 2022	Jul. 21, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15682/4	30MHz to 18GHz	Feb. 23, 2022	Sep. 06, 2022~Dec. 02, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4	9kHz to 18GHz	Feb. 23, 2022	Sep. 06, 2022~Dec. 02, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4	9kHz to 18GHz	Feb. 23, 2022	Sep. 06, 2022~Dec. 02, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 23, 2022	Sep. 06, 2022~Dec. 02, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 14, 2022	Sep. 06, 2022~Dec. 02, 2022	Apr. 13, 2023	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Sep. 06, 2022~Dec. 02, 2022	N/A	Radiation (03CH07-HY)
Controller	MF	MF-7802	N/A	Control Turn table	N/A	Sep. 06, 2022~Dec. 02, 2022	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Sep. 06, 2022~Dec. 02, 2022	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Sep. 06, 2022~Dec. 02, 2022	N/A	Radiation (03CH07-HY)
Software	Audix	E3	N/A	N/A	N/A	Sep. 06, 2022~Dec. 02, 2022	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Mar. 07, 2022	Sep. 06, 2022~Dec. 02, 2022	Mar. 06, 2023	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917025 1	18GHz~40GHz	Nov. 30, 2021	Sep. 06, 2022~Nov. 28, 2022	Nov. 29, 2022	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917025 1	18GHz~40GHz	Nov. 24, 2022	Nov. 29, 2022~Dec. 02, 2022	Nov. 23, 2023	Radiation (03CH07-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECEPEL	DTM-303B	TP200886	N/A	Mar. 21, 2022	Sep. 13, 2022~ Dec. 06, 2022	Mar. 22, 2023	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	15I00041SNO 10 (NO:248)	10MHz~6GHz	Dec. 29, 2021	Sep. 13, 2022~ Dec. 06, 2022	Dec. 28, 2022	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101905	10Hz - 40GHz	Aug. 03, 2022	Sep. 13, 2022~ Dec. 06, 2022	Aug. 02, 2023	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Sep. 13, 2022	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 01, 2021	Sep. 13, 2022	Nov. 30, 2022	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 17, 2021	Sep. 13, 2022	Nov. 16, 2022	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2021	Sep. 13, 2022	Nov. 15, 2022	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Sep. 13, 2022	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Aug. 01, 2022	Sep. 13, 2022	Jul. 31, 2023	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 30, 2021	Sep. 13, 2022	Dec. 29, 2022	Conduction (CO05-HY)



5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.1 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.5 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.2 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Hank Hsu	Temperature:	21~25	°C
Test Date:	2022/09/13~2022/12/06	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band Single Antenna										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant1	Ant2	Ant1	Ant2		
11b	1Mbps	1	1	2412	14.64	-	10.08	-	0.50	Pass
11b	1Mbps	1	6	2437	14.64	-	9.62	-	0.50	Pass
11b	1Mbps	1	11	2462	14.49	-	9.60	-	0.50	Pass
11b	1Mbps	1	12	2467	14.49	-	10.06	-	0.50	Pass
11b	1Mbps	1	13	2472	14.44	-	9.08	-	0.50	Pass
11g	6Mbps	1	1	2412	17.58	-	16.36	-	0.50	Pass
11g	6Mbps	1	6	2437	17.93	-	16.10	-	0.50	Pass
11g	6Mbps	1	11	2462	17.63	-	16.36	-	0.50	Pass
11g	6Mbps	1	12	2467	17.48	-	16.36	-	0.50	Pass
11g	6Mbps	1	13	2472	17.48	-	16.36	-	0.50	Pass
HT20	MCS0	1	1	2412	18.23	-	17.60	-	0.50	Pass
HT20	MCS0	1	6	2437	18.43	-	17.60	-	0.50	Pass
HT20	MCS0	1	11	2462	18.28	-	17.58	-	0.50	Pass
HT20	MCS0	1	12	2467	18.23	-	17.58	-	0.50	Pass
HT20	MCS0	1	13	2472	18.23	-	17.60	-	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band Single Antenna																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	19.10	-		30.00	-	2.86	-	21.96	-	36.00	-	Pass
11b	1Mbps	1	6	2437	18.90	-		30.00	-	2.86	-	21.76	-	36.00	-	Pass
11b	1Mbps	1	11	2462	17.80	-		30.00	-	2.86	-	20.66	-	36.00	-	Pass
11b	1Mbps	1	12	2467	13.50	-		30.00	-	2.86	-	16.36	-	36.00	-	Pass
11b	1Mbps	1	13	2472	11.70	-		30.00	-	2.86	-	14.56	-	36.00	-	Pass
11g	6Mbps	1	1	2412	15.60	-		30.00	-	2.86	-	18.46	-	36.00	-	Pass
11g	6Mbps	1	6	2437	18.30	-		30.00	-	2.86	-	21.16	-	36.00	-	Pass
11g	6Mbps	1	11	2462	17.20	-		30.00	-	2.86	-	20.06	-	36.00	-	Pass
11g	6Mbps	1	12	2467	13.30	-		30.00	-	2.86	-	16.16	-	36.00	-	Pass
11g	6Mbps	1	13	2472	8.40	-		30.00	-	2.86	-	11.26	-	36.00	-	Pass
HT20	MCS0	1	1	2412	14.50	-		30.00	-	2.86	-	17.36	-	36.00	-	Pass
HT20	MCS0	1	6	2437	17.40	-		30.00	-	2.86	-	20.26	-	36.00	-	Pass
HT20	MCS0	1	11	2462	16.70	-		30.00	-	2.86	-	19.56	-	36.00	-	Pass
HT20	MCS0	1	12	2467	13.20	-		30.00	-	2.86	-	16.06	-	36.00	-	Pass
HT20	MCS0	1	13	2472	8.50	-		30.00	-	2.86	-	11.36	-	36.00	-	Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band Single Antenna												
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	-3.06	-		2.86	-	8.00	-	Pass
11b	1Mbps	1	6	2437	-3.36	-		2.86	-	8.00	-	Pass
11b	1Mbps	1	11	2462	-3.95	-		2.86	-	8.00	-	Pass
11b	1Mbps	1	12	2467	-9.43	-		2.86	-	8.00	-	Pass
11b	1Mbps	1	13	2472	-10.16	-		2.86	-	8.00	-	Pass
11g	6Mbps	1	1	2412	-9.02	-		2.86	-	8.00	-	Pass
11g	6Mbps	1	6	2437	-6.73	-		2.86	-	8.00	-	Pass
11g	6Mbps	1	11	2462	-7.24	-		2.86	-	8.00	-	Pass
11g	6Mbps	1	12	2467	-11.33	-		2.86	-	8.00	-	Pass
11g	6Mbps	1	13	2472	-16.12	-		2.86	-	8.00	-	Pass
HT20	MCS0	1	1	2412	-10.06	-		2.86	-	8.00	-	Pass
HT20	MCS0	1	6	2437	-7.49	-		2.86	-	8.00	-	Pass
HT20	MCS0	1	11	2462	-7.80	-		2.86	-	8.00	-	Pass
HT20	MCS0	1	12	2467	-11.97	-		2.86	-	8.00	-	Pass
HT20	MCS0	1	13	2472	-16.16	-		2.86	-	8.00	-	Pass

Note: Measured power density (dBm) has offset with cable loss.



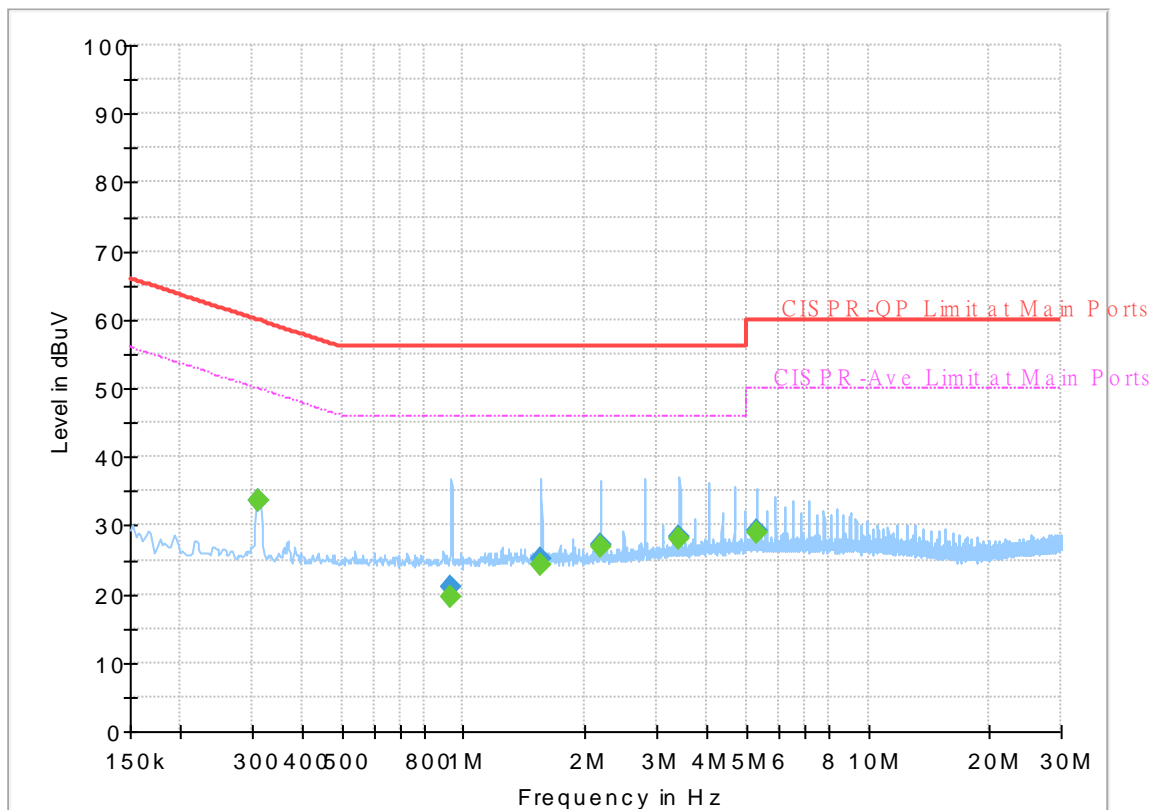
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	Temperature :	23~26°C
		Relative Humidity :	45~55%

EUT Information

Report NO : 290506
 Test Mode : Mode 2
 Test Voltage : 120Vac/60Hz
 Phase : Line
 Video (camera) + WiFi + 2-way audio + blue/white LED + IR LED
 Battery with 24VAC transformer
 User Image

Full Spectrum



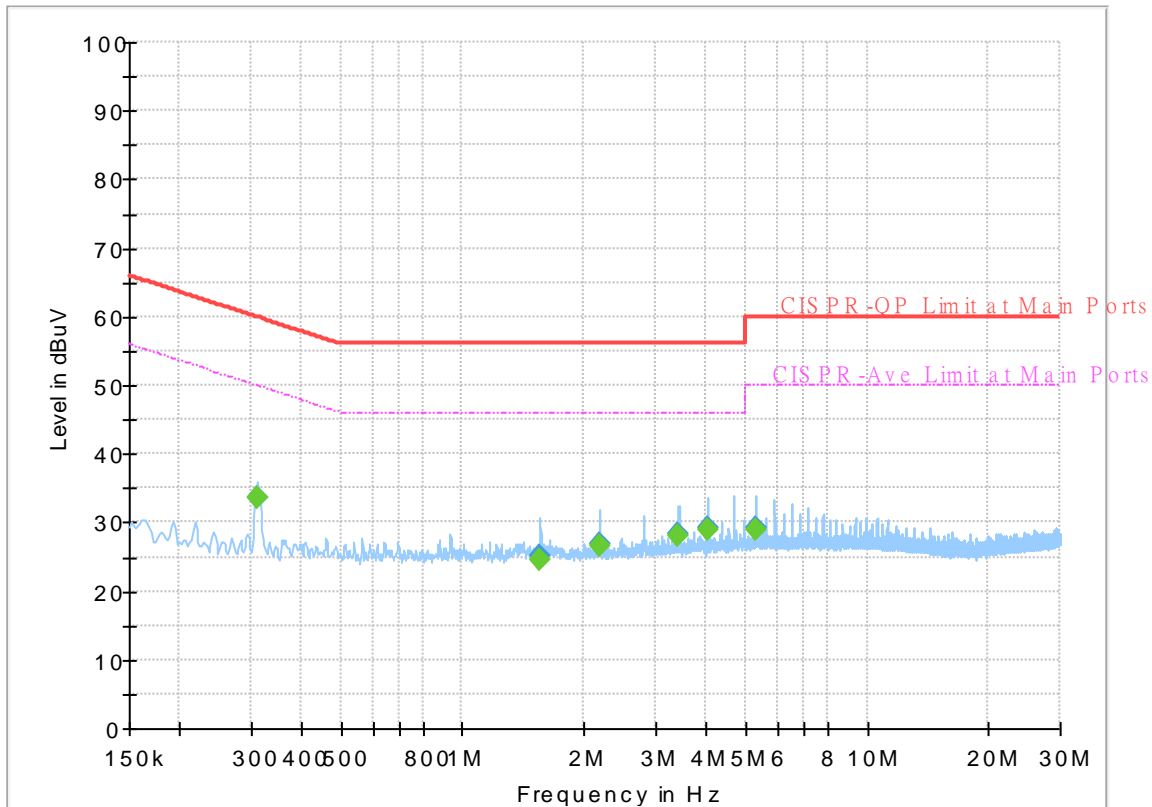
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.311280	---	33.63	49.94	16.31	L1	OFF	19.8
0.311280	33.60	---	59.94	26.34	L1	OFF	19.8
0.932910	---	19.51	46.00	26.49	L1	OFF	19.8
0.932910	21.04	---	56.00	34.96	L1	OFF	19.8
1.554630	---	24.38	46.00	21.62	L1	OFF	19.8
1.554630	25.12	---	56.00	30.88	L1	OFF	19.8
2.177700	---	27.01	46.00	18.99	L1	OFF	19.8
2.177700	27.26	---	56.00	28.74	L1	OFF	19.8
3.421230	---	28.07	46.00	17.93	L1	OFF	19.8
3.421230	28.31	---	56.00	27.69	L1	OFF	19.8
5.287380	---	29.08	50.00	20.92	L1	OFF	19.9
5.287380	29.32	---	60.00	30.68	L1	OFF	19.9

EUT Information

Report NO : 290506
 Test Mode : Mode 2
 Test Voltage : 120Vac/60Hz
 Phase : Neutral
 Video (camera) + WiFi + 2-way audio + blue/white LED + IR LED
 Battery with 24VAC transformer
 User Image

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.310920	---	33.60	49.95	16.35	N	OFF	19.8
0.310920	33.59	---	59.95	26.36	N	OFF	19.8
1.555800	---	24.43	46.00	21.57	N	OFF	19.8
1.555800	25.12	---	56.00	30.88	N	OFF	19.8
2.176890	---	26.58	46.00	19.42	N	OFF	19.8
2.176890	26.90	---	56.00	29.10	N	OFF	19.8
3.422130	---	28.04	46.00	17.96	N	OFF	19.8
3.422130	28.29	---	56.00	27.71	N	OFF	19.8
4.045380	---	28.97	46.00	17.03	N	OFF	19.9
4.045380	29.15	---	56.00	26.85	N	OFF	19.9
5.290260	---	29.00	50.00	21.00	N	OFF	19.9
5.290260	29.26	---	60.00	30.74	N	OFF	19.9



Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang and Stan Hsieh	Temperature :	22.8~26.8°C
		Relative Humidity :	52.6~61.1%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11b CH 01 2412MHz		2385.705	56.9	-17.1	74	42.47	31.4	18.44	35.41	368	199	P	H	
		2385.495	48.91	-5.09	54	34.48	31.4	18.44	35.41	368	199	A	H	
	*	2412	108.63	-	-	94.05	31.5	18.5	35.42	368	199	P	H	
	*	2412	105.66	-	-	91.08	31.5	18.5	35.42	368	199	A	H	
														H
														H
			2372.055	56.04	-17.96	74	41.66	31.4	18.39	35.41	400	91	P	V
			2385.6	44.93	-9.07	54	30.5	31.4	18.44	35.41	400	91	A	V
	*		2412	106.86	-	-	92.28	31.5	18.5	35.42	400	91	P	V
	*		2412	103.86	-	-	89.28	31.5	18.5	35.42	400	91	A	V
														V
														V
802.11b CH 06 2437MHz		2364.04	54.76	-19.24	74	40.39	31.4	18.37	35.4	347	193	P	H	
		2378.88	44.1	-9.9	54	29.69	31.4	18.42	35.41	347	193	A	H	
	*	2437	108.58	-	-	93.78	31.7	18.53	35.43	347	193	P	H	
	*	2437	105.58	-	-	90.78	31.7	18.53	35.43	347	193	A	H	
			2498.81	55.77	-18.23	74	40.41	32.19	18.63	35.46	347	193	P	H
			2488.17	45.08	-8.92	54	29.82	32.11	18.6	35.45	347	193	A	H
			2377.06	54.4	-19.6	74	40	31.4	18.41	35.41	350	95	P	V
			2378.6	43.73	-10.27	54	29.32	31.4	18.42	35.41	350	95	A	V
	*		2437	107.14	-	-	92.34	31.7	18.53	35.43	350	95	P	V
	*		2437	104.02	-	-	89.22	31.7	18.53	35.43	350	95	A	V
			2491.74	55.28	-18.72	74	39.99	32.13	18.61	35.45	350	95	P	V
			2495.17	44.61	-9.39	54	29.29	32.16	18.62	35.46	350	95	A	V



802.11b CH 11 2462MHz	*	2462	107.43	-	-	92.4	31.9	18.57	35.44	386	191	P	H
	*	2462	104.32	-	-	89.29	31.9	18.57	35.44	386	191	A	H
		2487.36	55.98	-18.02	74	40.73	32.1	18.6	35.45	386	191	P	H
		2488.92	45.34	-8.66	54	30.07	32.11	18.61	35.45	386	191	A	H
													H
													H
	*	2464	105.88	-	-	90.84	31.91	18.57	35.44	378	81	P	V
	*	2464	102.95	-	-	87.91	31.91	18.57	35.44	378	81	A	V
		2489	55.6	-18.4	74	40.33	32.11	18.61	35.45	378	81	P	V
		2488.72	45.2	-8.8	54	29.93	32.11	18.61	35.45	378	81	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 12 2467MHz	*	2467	105.03	-	-	89.62	32.2	18.6	35.39	305	186	P	H
	*	2467	101.86	-	-	86.45	32.2	18.6	35.39	305	186	A	H
		2483.92	59.2	-14.8	74	43.79	32.2	18.62	35.41	305	186	P	H
		2484.12	50.78	-3.22	54	35.36	32.2	18.63	35.41	305	186	A	H
													H
													H
	*	2467	101.01	-	-	85.6	32.2	18.6	35.39	341	154	P	V
	*	2467	98.03	-	-	82.62	32.2	18.6	35.39	341	154	A	V
		2483.88	57.29	-16.71	74	41.88	32.2	18.62	35.41	341	154	P	V
		2484.08	49.77	-4.23	54	34.36	32.2	18.62	35.41	341	154	A	V
													V
													V
802.11b CH 13 2472MHz	*	2472	101.26	-	-	85.84	32.2	18.61	35.39	346	194	P	H
	*	2472	98.3	-	-	82.88	32.2	18.61	35.39	346	194	A	H
		2484.2	56.93	-17.07	74	41.51	32.2	18.63	35.41	346	194	P	H
		2487.4	50.07	-3.93	54	34.65	32.2	18.63	35.41	346	194	A	H
													H
													H
	*	2472	100.35	-	-	84.93	32.2	18.61	35.39	387	138	P	V
	*	2472	97.41	-	-	81.99	32.2	18.61	35.39	387	138	A	V
		2487.44	56.46	-17.54	74	41.04	32.2	18.63	35.41	387	138	P	V
		2487.4	49.24	-4.76	54	33.82	32.2	18.63	35.41	387	138	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11b CH 01 2412MHz		4824	50.42	-23.58	74	62.6	34.05	12.73	58.96	208	204	P	H	
		4824	47.84	-6.16	54	60.02	34.05	12.73	58.96	208	204	A	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			4824	51.47	-22.53	74	63.65	34.05	12.73	58.96	100	300	P	V
			4824	48.69	-5.31	54	60.87	34.05	12.73	58.96	100	300	A	V
														V
														V
														V
														V
														V
														V
													V	



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11b CH 06 2437MHz		4874	46.9	-27.1	74	58.92	34.05	12.8	58.87	-	-	P	H	
		7311	50.65	-23.35	74	57.44	35.64	15.07	57.5	277	310	P	H	
		7311	46	-8	54	52.79	35.64	15.07	57.5	277	310	A	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			4874	47.66	-26.34	74	59.68	34.05	12.8	58.87	-	-	P	V
			7311	54.57	-19.43	74	61.36	35.64	15.07	57.5	104	164	P	V
			7311	50.97	-3.03	54	57.76	35.64	15.07	57.5	104	164	A	V
														V
														V
														V
														V
														V
													V	
													V	



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11b CH 12 2467MHz		4934	41.79	-32.21	74	53.65	34.07	12.83	58.76	-	-	P	H	
		7401	45.36	-28.64	74	51.99	35.9	15.03	57.56	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			4934	43.59	-30.41	74	55.45	34.07	12.83	58.76	-	-	P	V
			7401	50.39	-23.61	74	57.02	35.9	15.03	57.56	184	183	P	V
			7401	45.83	-8.17	54	52.46	35.9	15.03	57.56	184	183	A	V
														V
														V
														V
														V
														V
														V
													V	



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 13 2472MHz		4944	40.66	-33.34	74	52.48	34.09	12.83	58.74	-	-	P	H
		7416	41.67	-32.33	74	48.34	35.87	15.04	57.58	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
			4944	40.71	-33.29	74	52.53	34.09	12.83	58.74	-	-	P
		7416	42.02	-31.98	74	48.69	35.87	15.04	57.58	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 												



**2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11g CH 01 2412MHz		2384.55	61.34	-12.66	74	46.8	31.4	18.44	35.3	248	171	P	H	
		2390	49.48	-4.52	54	34.92	31.4	18.46	35.3	248	171	A	H	
	*	2412	106.31	-	-	91.62	31.5	18.51	35.32	248	171	P	H	
	*	2412	98.76	-	-	84.07	31.5	18.51	35.32	248	171	A	H	
													H	
														H
			2389.695	62.96	-11.04	74	48.4	31.4	18.46	35.3	338	144	P	V
			2390	48.87	-5.13	54	34.31	31.4	18.46	35.3	338	144	A	V
	*		2412	103.49	-	-	88.8	31.5	18.51	35.32	338	144	P	V
	*		2412	95.97	-	-	81.28	31.5	18.51	35.32	338	144	A	V
														V
														V
802.11g CH 06 2437MHz		2386.72	55.52	-18.48	74	41.09	31.4	18.44	35.41	400	193	P	H	
		2370.76	45.13	-8.87	54	30.75	31.4	18.39	35.41	400	193	A	H	
	*	2437	111.74	-	-	96.94	31.7	18.53	35.43	400	193	P	H	
	*	2437	104.31	-	-	89.51	31.7	18.53	35.43	400	193	A	H	
			2483.5	56.03	-17.97	74	40.81	32.07	18.6	35.45	400	193	P	H
			2483.62	45.57	-8.43	54	30.35	32.07	18.6	35.45	400	193	A	H
			2376.78	56.22	-17.78	74	41.82	31.4	18.41	35.41	400	122	P	V
			2355.92	44.69	-9.31	54	30.34	31.4	18.35	35.4	400	122	A	V
	*		2438	110.98	-	-	96.18	31.7	18.53	35.43	400	122	P	V
	*		2438	103.6	-	-	88.8	31.7	18.53	35.43	400	122	A	V
			2490.2	55.56	-18.44	74	40.28	32.12	18.61	35.45	400	122	P	V
			2483.5	45.35	-8.65	54	30.13	32.07	18.6	35.45	400	122	A	V



802.11g CH 11 2462MHz	*	2462	107.34	-	-	92.31	31.9	18.57	35.44	346	205	P	H
	*	2462	100.23	-	-	85.2	31.9	18.57	35.44	346	205	A	H
		2483.76	63.25	-10.75	74	48.03	32.07	18.6	35.45	346	205	P	H
		2483.52	49.68	-4.32	54	34.46	32.07	18.6	35.45	346	205	A	H
													H
													H
	*	2462	106.13	-	-	91.1	31.9	18.57	35.44	244	357	P	V
	*	2462	98.9	-	-	83.87	31.9	18.57	35.44	244	357	A	V
		2484.4	60.63	-13.37	74	45.39	32.08	18.61	35.45	244	357	P	V
		2483.52	48.2	-5.8	54	32.98	32.07	18.6	35.45	244	357	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11g CH 12 2467MHz	*	2467	107.24	-	-	91.83	32.2	18.6	35.39	307	192	P	H	
	*	2467	99.38	-	-	83.97	32.2	18.6	35.39	307	192	A	H	
		2484.52	60.07	-13.93	74	44.65	32.2	18.63	35.41	307	192	P	H	
		2483.52	49.81	-4.19	54	34.4	32.2	18.62	35.41	307	192	A	H	
													H	
														H
	*	2467	104.76	-	-	89.35	32.2	18.6	35.39	391	134	P	V	
	*	2467	97.25	-	-	81.84	32.2	18.6	35.39	391	134	A	V	
		2483.8	59.95	-14.05	74	44.54	32.2	18.62	35.41	391	134	P	V	
		2483.52	48.84	-5.16	54	33.43	32.2	18.62	35.41	391	134	A	V	
														V
														V
802.11g CH 13 2472MHz	*	2472	103.01	-	-	87.59	32.2	18.61	35.39	304	189	P	H	
	*	2472	94.98	-	-	79.56	32.2	18.61	35.39	304	189	A	H	
		2484.76	59.83	-14.17	74	44.41	32.2	18.63	35.41	304	189	P	H	
		2484.12	49.77	-4.23	54	34.35	32.2	18.63	35.41	304	189	A	H	
														H
														H
	*	2472	100.52	-	-	85.1	32.2	18.61	35.39	390	133	P	V	
	*	2472	93.24	-	-	77.82	32.2	18.61	35.39	390	133	A	V	
		2484.16	59.55	-14.45	74	44.13	32.2	18.63	35.41	390	133	P	V	
		2484.12	48.86	-5.14	54	33.44	32.2	18.63	35.41	390	133	A	V	
														V
														V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



2.4GHz 2400~2483.5MHz
WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	42.33	-31.67	74	54.46	34.05	12.78	58.96	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
			4824	42.74	-31.26	74	54.87	34.05	12.78	58.96	-	-	P
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11g CH 11 2462MHz		4924	41.83	-32.17	74	53.73	34.05	12.83	58.78	-	-	P	H	
		7386	52.18	-21.82	74	58.82	35.87	15.04	57.55	195	242	P	H	
		7386	40.52	-13.48	54	47.16	35.87	15.04	57.55	195	242	A	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			4924	42.98	-31.02	74	54.88	34.05	12.83	58.78	-	-	P	V
			7386	56.73	-17.27	74	63.37	35.87	15.04	57.55	185	170	P	V
			7386	45.12	-8.88	54	51.76	35.87	15.04	57.55	185	170	A	V
														V
														V
														V
														V
														V
														V
													V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 													



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 13 2472MHz		4944	39.87	-34.13	74	51.69	34.09	12.83	58.74	-	-	P	H
		7416	41.32	-32.68	74	47.99	35.87	15.04	57.58	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
			4944	40.35	-33.65	74	52.17	34.09	12.83	58.74	-	-	P
		7416	42.73	-31.27	74	49.4	35.87	15.04	57.58	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 												



**2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11n HT20 CH 01 2412MHz		2389.905	63.27	-10.73	74	48.71	31.4	18.46	35.3	374	190	P	H	
		2390	50.72	-3.28	54	36.16	31.4	18.46	35.3	374	190	A	H	
	*	2412	108	-	-	93.31	31.5	18.51	35.32	374	190	P	H	
	*	2412	100.51	-	-	85.82	31.5	18.51	35.32	374	190	A	H	
													H	
														H
			2389.275	61.77	-12.23	74	47.22	31.4	18.45	35.3	374	119	P	V
			2390	49.15	-4.85	54	34.59	31.4	18.46	35.3	374	119	A	V
		*	2412	105.98	-	-	91.29	31.5	18.51	35.32	374	119	P	V
		*	2412	98.59	-	-	83.9	31.5	18.51	35.32	374	119	A	V
													V	
													V	
802.11n HT20 CH 06 2437MHz		2369.92	55.52	-18.48	74	41.14	31.4	18.39	35.41	400	196	P	H	
		2373.28	44.74	-9.26	54	30.35	31.4	18.4	35.41	400	196	A	H	
	*	2437	110.74	-	-	95.94	31.7	18.53	35.43	400	196	P	H	
	*	2437	102.78	-	-	87.98	31.7	18.53	35.43	400	196	A	H	
			2486.07	56.28	-17.72	74	41.03	32.09	18.61	35.45	400	196	P	H
			2483.5	45.4	-8.6	54	30.18	32.07	18.6	35.45	400	196	A	H
			2331.98	55.3	-18.7	74	40.95	31.47	18.27	35.39	400	137	P	V
			2380.98	44.27	-9.73	54	29.85	31.4	18.43	35.41	400	137	A	V
		*	2438	108.84	-	-	94.04	31.7	18.53	35.43	400	137	P	V
		*	2438	101.49	-	-	86.69	31.7	18.53	35.43	400	137	A	V
		2485.16	55.95	-18.05	74	40.71	32.08	18.61	35.45	400	137	P	V	
		2483.97	45.27	-8.73	54	30.05	32.07	18.6	35.45	400	137	A	V	



802.11n HT20 CH 11 2462MHz	*	2462	108.03	-	-	93	31.9	18.57	35.44	306	196	P	H
	*	2462	100.67	-	-	85.64	31.9	18.57	35.44	306	196	A	H
		2484.16	66.28	-7.72	74	51.05	32.07	18.61	35.45	306	196	P	H
		2483.52	49.47	-4.53	54	34.25	32.07	18.6	35.45	306	196	A	H
													H
													H
	*	2462	107.88	-	-	92.79	31.9	18.57	35.38	338	10	P	V
	*	2462	100.01	-	-	84.98	31.9	18.57	35.44	338	10	P	V
		2483.6	60.36	-13.64	74	45.14	32.07	18.6	35.45	338	10	P	V
		2483.56	47.83	-6.17	54	32.61	32.07	18.6	35.45	338	10	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 12 2467MHz	*	2467	106.83	-	-	91.42	32.2	18.6	35.39	307	190	P	H
	*	2467	99.37	-	-	83.96	32.2	18.6	35.39	307	190	A	H
		2484.24	61.92	-12.08	74	46.5	32.2	18.63	35.41	307	190	P	H
		2483.52	50.53	-3.47	54	35.12	32.2	18.62	35.41	307	190	A	H
													H
													H
	*	2467	102.92	-	-	87.51	32.2	18.6	35.39	244	6	P	V
	*	2467	95.41	-	-	80	32.2	18.6	35.39	244	6	A	V
		2484.52	57.55	-16.45	74	42.13	32.2	18.63	35.41	244	6	P	V
		2483.52	47.54	-6.46	54	32.13	32.2	18.62	35.41	244	6	A	V
												V	
												V	
802.11n HT20 CH 13 2472MHz	*	2472	99.46	-	-	84.04	32.2	18.61	35.39	345	184	P	H
	*	2472	92.04	-	-	76.62	32.2	18.61	35.39	345	184	A	H
		2484.2	63.01	-10.99	74	47.59	32.2	18.63	35.41	345	184	P	H
		2483.52	49.57	-4.43	54	34.16	32.2	18.62	35.41	345	184	A	H
													H
													H
	*	2472	98.35	-	-	82.93	32.2	18.61	35.39	391	138	P	V
	*	2472	91.16	-	-	75.74	32.2	18.61	35.39	391	138	A	V
		2483.52	58.48	-15.52	74	43.07	32.2	18.62	35.41	391	138	P	V
		2483.52	49.26	-4.74	54	33.85	32.2	18.62	35.41	391	138	A	V
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		4824	43.29	-30.71	74	55.42	34.05	12.78	58.96	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
			4824	45.38	-28.62	74	57.51	34.05	12.78	58.96	-	-	P
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11n HT20 CH 06 2437MHz		4874	41.93	-32.07	74	53.95	34.05	12.8	58.87	-	-	P	H	
		7311	51.53	-22.47	74	58.32	35.64	15.07	57.5	158	181	P	H	
		7311	39.34	-14.66	54	46.13	35.64	15.07	57.5	158	181	A	H	
													H	
													H	
													H	
														H
														H
														H
														H
														H
			4874	42.77	-31.23	74	54.79	34.05	12.8	58.87	-	-	P	V
			7311	56.99	-17.01	74	63.78	35.64	15.07	57.5	241	178	P	V
			7311	45.04	-8.96	54	51.83	35.64	15.07	57.5	241	178	A	V
														V
														V
														V
														V
														V
													V	
													V	



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11n HT20 CH 11 2462MHz		4924	41.8	-32.2	74	53.7	34.05	12.83	58.78	-	-	P	H	
		7386	43.93	-30.07	74	50.57	35.87	15.04	57.55	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			4924	41.35	-32.65	74	53.25	34.05	12.83	58.78	-	-	P	V
			7386	51.08	-22.92	74	57.72	35.87	15.04	57.55	204	177	P	V
			7386	38.54	-15.46	54	45.18	35.87	15.04	57.55	204	177	A	V
														V
														V
														V
														V
														V
													V	
													V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 													



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 13 2472MHz		4944	39.62	-34.38	74	51.44	34.09	12.83	58.74	-	-	P	H
		7416	40.78	-33.22	74	47.45	35.87	15.04	57.58	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
	Remark	1. No other spurious found.											
2. All results are PASS against Peak and Average limit line.													
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Emission above 18GHz
2.4GHz WIFI 802.11b (SHF)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11b SHF		24132	37.52	-36.48	74	48.12	38.55	8.87	58.02	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
			24867	39.16	-34.84	74	48.6	38.84	9.23	57.51	-	-	P
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =
Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Margin (dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
2. Margin (dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
2. Margin (dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Jesse Wang and Stan Hsieh	Temperature :	22.8~26.8°C
		Relative Humidity :	52.6~61.1%

Note symbol

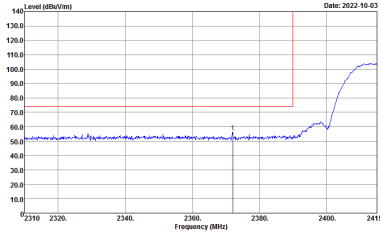
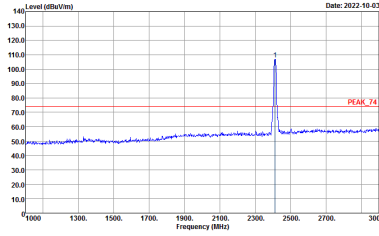
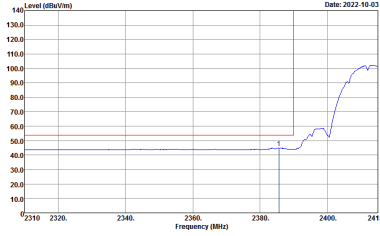
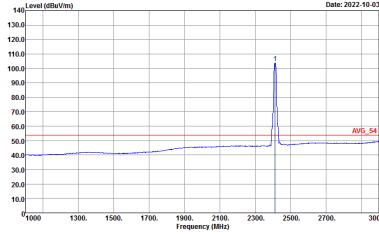
-L	Low channel location
-R	High channel location



2.4GHz 2400~2483.5MHz
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH07-HY Condition : PEAK_BE_24.3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH07-HY Condition : PEAK_24.3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	<p>Site : 03CH07-HY Condition : AVG_BE_S4 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	<p>Site : 03CH07-HY Condition : AVG_S4 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>

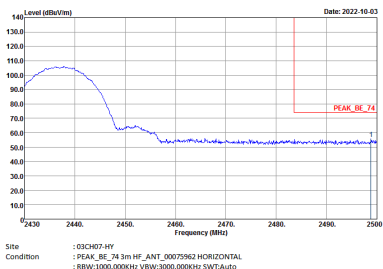
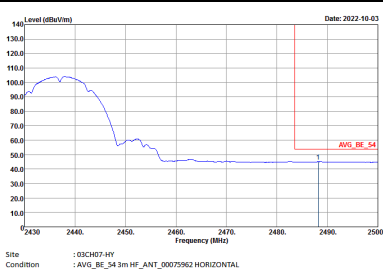


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	 <p>Level (dBuV/m) vs Frequency (MHz) plot for Peak Vertical. The plot shows a signal level around 50 dBuV/m with a sharp peak at approximately 2412 MHz reaching about 105 dBuV/m. The x-axis ranges from 2310 to 2415 MHz, and the y-axis ranges from 10.0 to 140.0 dBuV/m.</p> <p>Site : 03CH07-HY Condition : :PEAK_BE_24.3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot for Peak Fundamental. The plot shows a signal level around 50 dBuV/m with a sharp peak at approximately 2412 MHz reaching about 105 dBuV/m. The x-axis ranges from 1000 to 3000 MHz, and the y-axis ranges from 10.0 to 140.0 dBuV/m.</p> <p>Site : 03CH07-HY Condition : :PEAK_24.3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Level (dBuV/m) vs Frequency (MHz) plot for Avg Vertical. The plot shows a signal level around 50 dBuV/m with a sharp peak at approximately 2412 MHz reaching about 105 dBuV/m. The x-axis ranges from 2310 to 2415 MHz, and the y-axis ranges from 10.0 to 140.0 dBuV/m.</p> <p>Site : 03CH07-HY Condition : :AVG_BE_S4.3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot for Avg Fundamental. The plot shows a signal level around 50 dBuV/m with a sharp peak at approximately 2412 MHz reaching about 105 dBuV/m. The x-axis ranges from 1000 to 3000 MHz, and the y-axis ranges from 10.0 to 140.0 dBuV/m.</p> <p>Site : 03CH07-HY Condition : :AVG_S4.3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	<p>Date: 2022-10-03</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24.3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Date: 2022-10-03</p> <p>Site : 03CH07-HY Condition : PEAK_24.3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	<p>Date: 2022-10-03</p> <p>Site : 03CH07-HY Condition : AVG_BE_24.3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	<p>Date: 2022-10-03</p> <p>Site : 03CH07-HY Condition : AVG_24.3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>

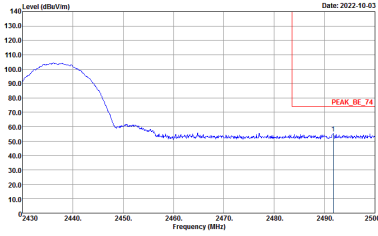
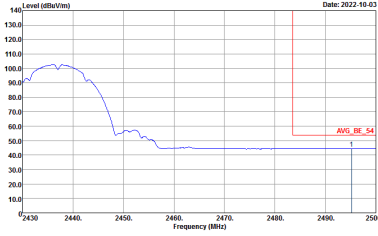


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	<p>Site : 03CH07-HY Condition : :PEAK_BE_24.3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH07-HY Condition : :PEAK_24.3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	<p>Site : 03CH07-HY Condition : :AVG_BE_24.3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	<p>Site : 03CH07-HY Condition : :AVG_24.3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>

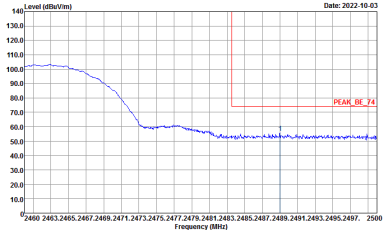
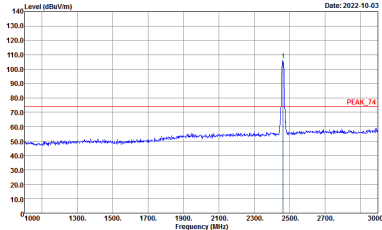
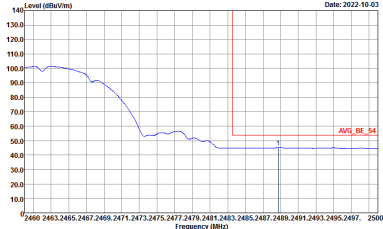
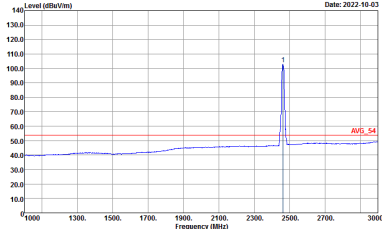


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075963 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWFAuto</p>	Left blank
Avg.	 <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075963 VERTICAL : RBW:1000.000kHz VBW:5.000kHz SWFAuto</p>	Left blank

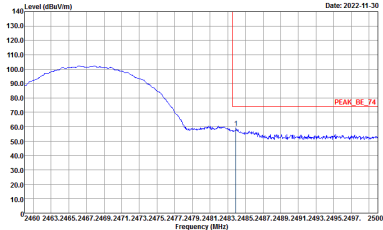
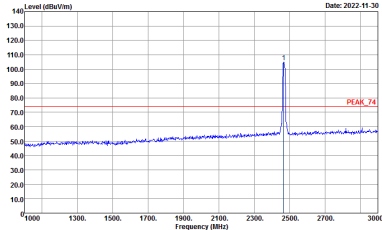
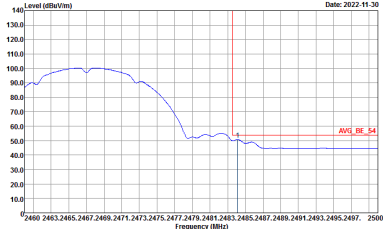
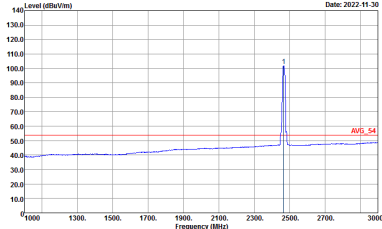


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	<p>Date: 2022-10-03</p> <p>Level (dBm/100MHz)</p> <p>Frequency (MHz)</p> <p>PEAK_BE_Y4</p> <p>Site : 03CH07-HY Condition : :PEAK_BE_24.3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Date: 2022-10-03</p> <p>Level (dBm/100MHz)</p> <p>Frequency (MHz)</p> <p>PEAK_Y4</p> <p>Site : 03CH07-HY Condition : :PEAK_24.3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	<p>Date: 2022-10-03</p> <p>Level (dBm/100MHz)</p> <p>Frequency (MHz)</p> <p>AVG_BE_S4</p> <p>Site : 03CH07-HY Condition : :AVG_BE_S4.3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	<p>Date: 2022-10-03</p> <p>Level (dBm/100MHz)</p> <p>Frequency (MHz)</p> <p>AVG_Y4</p> <p>Site : 03CH07-HY Condition : :AVG_S4.3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>

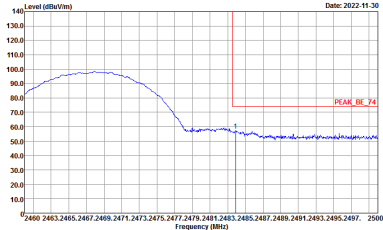
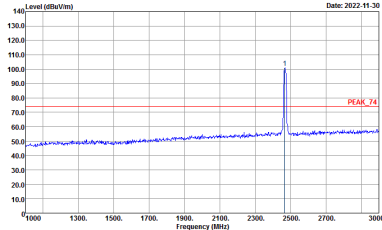
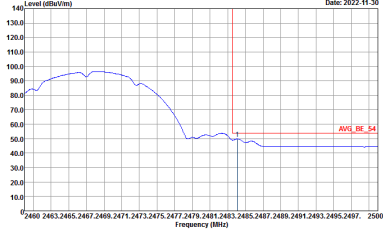
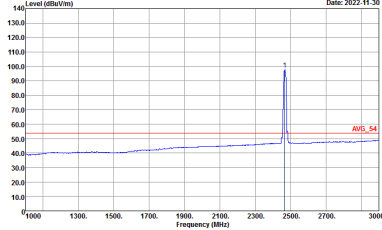


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 <p>Date: 2022-10-03</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24.3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Date: 2022-10-03</p> <p>Site : 03CH07-HY Condition : PEAK_24.3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Date: 2022-10-03</p> <p>Site : 03CH07-HY Condition : AVG_BE_S4.3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.0100kHz SWT:Auto</p>	 <p>Date: 2022-10-03</p> <p>Site : 03CH07-HY Condition : AVG_S4.3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.0100kHz SWT:Auto</p>

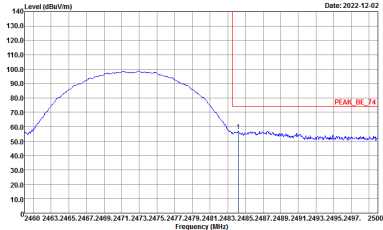
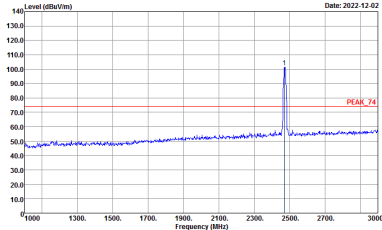
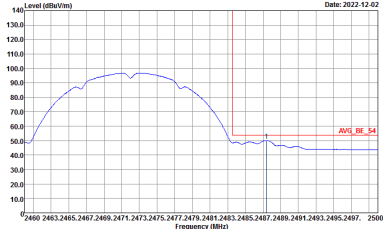
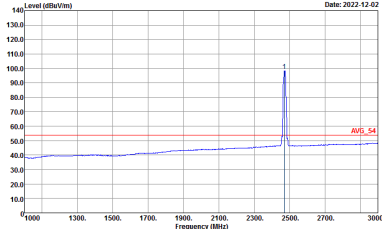


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00227856 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH07-HY Condition : PEAK_F_24 3m HF_ANT_00227856 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00227856 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	 <p>Site : 03CH07-HY Condition : AVG_F_24 3m HF_ANT_00227856 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>

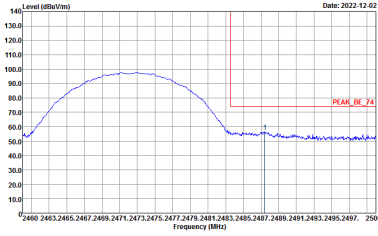
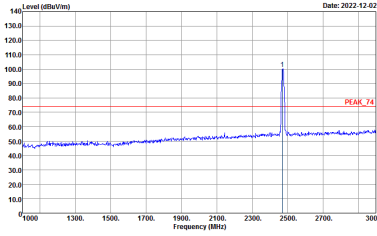
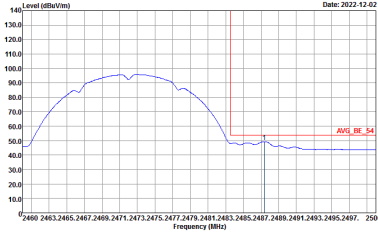
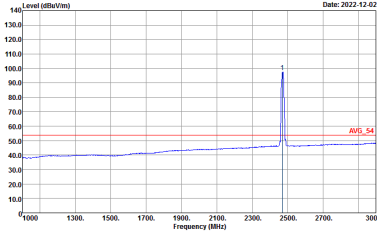


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00227856 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227856 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00227856 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	 <p>Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00227856 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
1	Horizontal	Fundamental
Peak	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing a peak at 2472 MHz. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 2400 to 2500 MHz. A red line indicates the peak level at approximately 74 dBuV/m.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00227856 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing a sharp peak at 2472 MHz. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 1000 to 3000 MHz. A red line indicates the peak level at approximately 74 dBuV/m.</p> <p>Site : 03CH07-HY Condition : PEAK_24 3m HF_ANT_00227856 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing the average spectrum. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 2400 to 2500 MHz. A red line indicates the average level at approximately 54 dBuV/m.</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00227856 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing the average spectrum. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 1000 to 3000 MHz. A red line indicates the average level at approximately 54 dBuV/m.</p> <p>Site : 03CH07-HY Condition : AVG_24 3m HF_ANT_00227856 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>



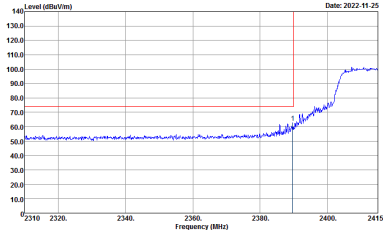
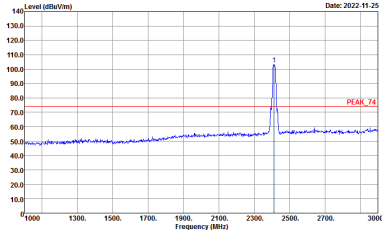
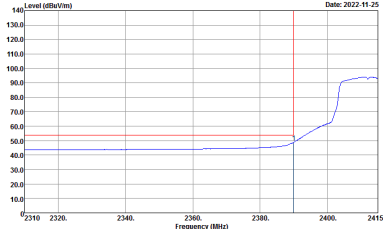
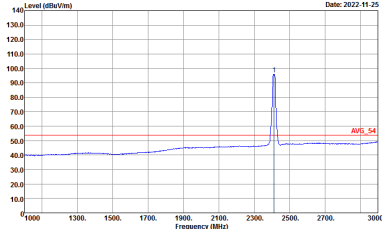
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00227856 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227856 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00227856 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	 <p>Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00227856 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>



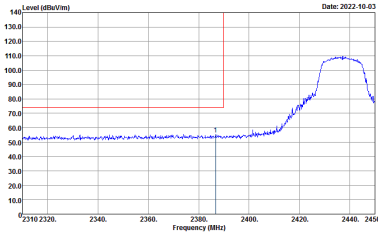
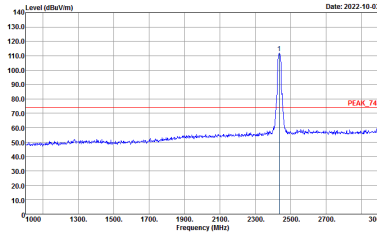
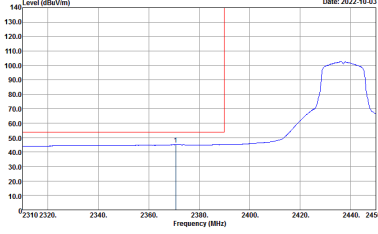
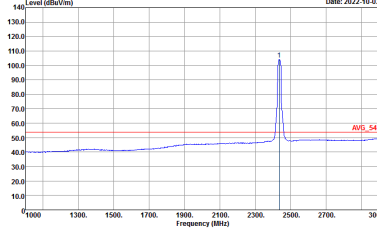
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

Table with 4 quadrants showing spectral analysis for Peak and Avg. conditions. Top-left: Horizontal spectrum (2310-2415 MHz). Top-right: Fundamental spectrum (1000-3000 MHz). Bottom-left: Horizontal average spectrum (2310-2415 MHz). Bottom-right: Fundamental average spectrum (1000-3000 MHz). Each plot includes a red peak marker and technical details like Site, Condition, and measurement parameters.

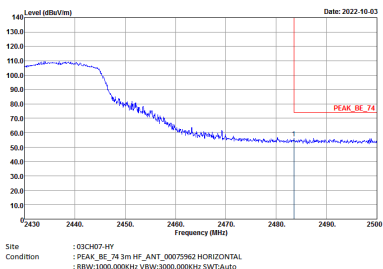
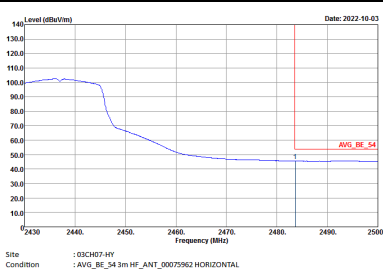


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH07-HY Condition : PEAK_F_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	 <p>Site : 03CH07-HY Condition : AVG_F_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : :PEAK_BE_24.3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH07-HY Condition : :PEAK_24.3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Site : 03CH07-HY Condition : :AVG_BE_24.3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	 <p>Site : 03CH07-HY Condition : :AVG_24.3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>

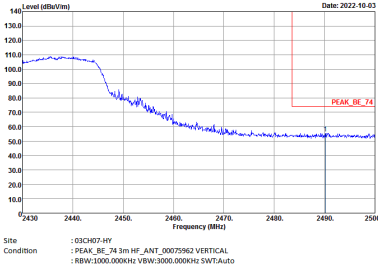
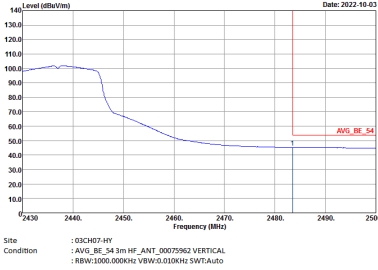


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

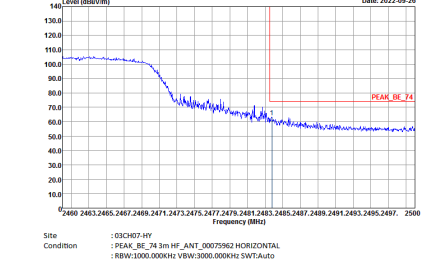
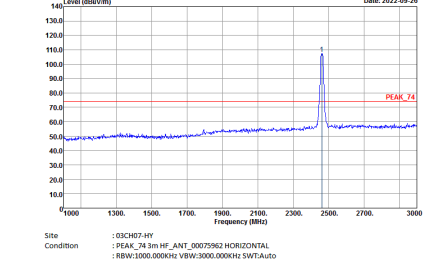
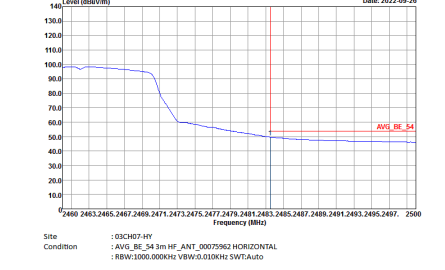
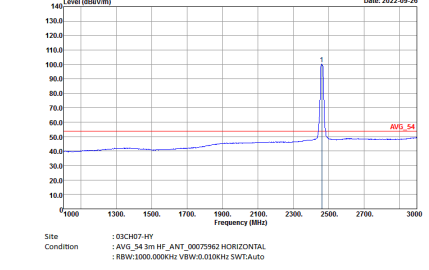


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	<p>Date: 2022-10-03</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24.3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Date: 2022-10-03</p> <p>Site : 03CH07-HY Condition : PEAK_24.3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	<p>Date: 2022-10-03</p> <p>Site : 03CH07-HY Condition : AVG_BE_24.3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:5.000kHz SWT:Auto</p>	<p>Date: 2022-10-03</p> <p>Site : 03CH07-HY Condition : AVG_24.3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:5.000kHz SWT:Auto</p>

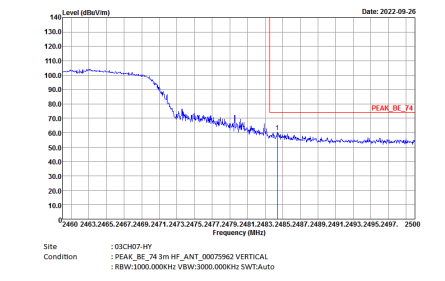
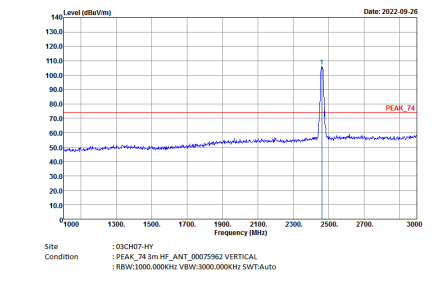
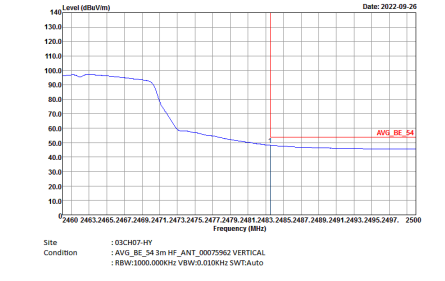
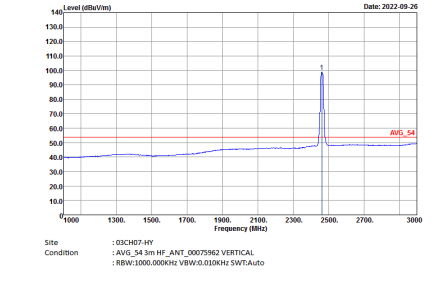


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak		Left Blank
Avg.		Left Blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing a peak at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 2400 to 2500 MHz. A red vertical line marks the peak at 2462 MHz, with a label 'PEAK_BE_Y4'.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24.3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing a sharp peak at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 1000 to 3000 MHz. A red vertical line marks the peak at 2462 MHz, with a label 'PEAK_Y4'.</p> <p>Site : 03CH07-HY Condition : PEAK_24.3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing the average spectrum. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 2400 to 2500 MHz. A red vertical line marks the peak at 2462 MHz, with a label 'AVG_BE_S4'.</p> <p>Site : 03CH07-HY Condition : AVG_BE_S4.3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing the average spectrum with a sharp peak at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 1000 to 3000 MHz. A red vertical line marks the peak at 2462 MHz, with a label 'AVG_S4'.</p> <p>Site : 03CH07-HY Condition : AVG_S4.3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>

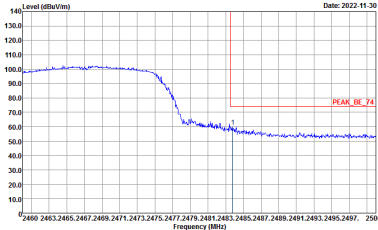
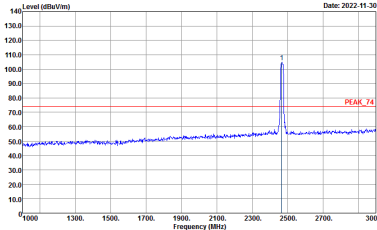
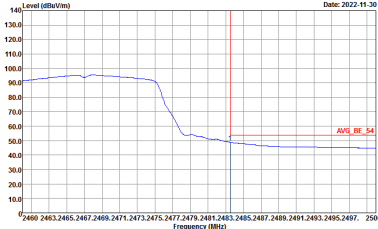
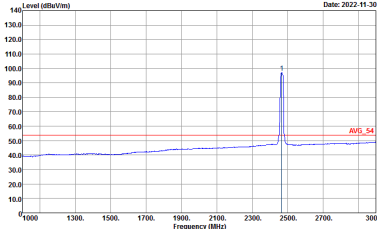


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : :PEAK_BE_24.3m HF_ANT_00075963 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH07-HY Condition : :PEAK_24.3m HF_ANT_00075963 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Site : 03CH07-HY Condition : :AVG_BE_S4.3m HF_ANT_00075963 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	 <p>Site : 03CH07-HY Condition : :AVG_S4.3m HF_ANT_00075963 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00227856 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH07-HY Condition : PEAK_F_24 3m HF_ANT_00227856 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	<p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00227856 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	<p>Site : 03CH07-HY Condition : AVG_F_24 3m HF_ANT_00227856 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>

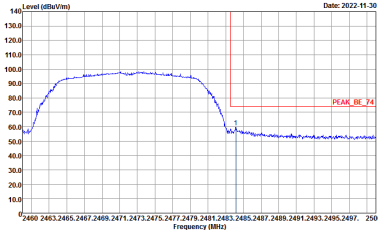
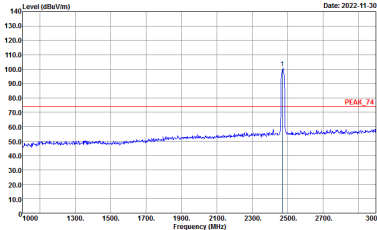
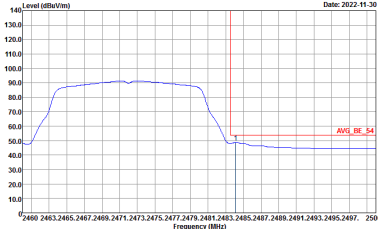
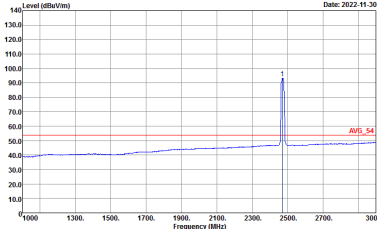


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00227856 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH07-HY Condition : PEAK_F_24 3m HF_ANT_00227856 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00227856 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	 <p>Site : 03CH07-HY Condition : AVG_F_24 3m HF_ANT_00227856 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>



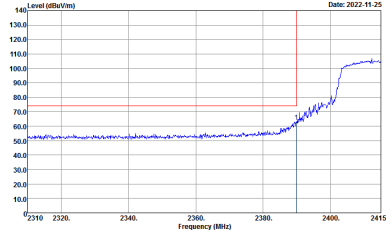
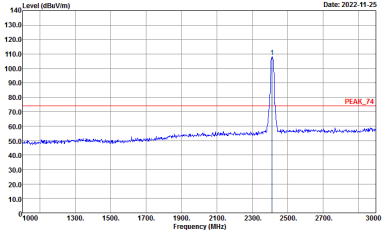
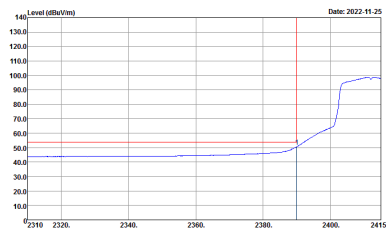
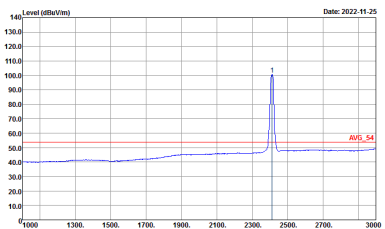
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00227856 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH07-HY Condition : PEAK_F_24 3m HF_ANT_00227856 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	<p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00227856 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	<p>Site : 03CH07-HY Condition : AVG_F_24 3m HF_ANT_00227856 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>



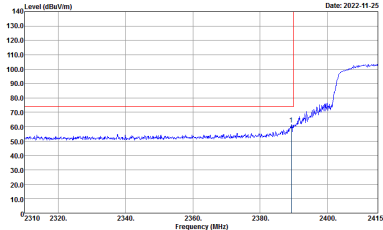
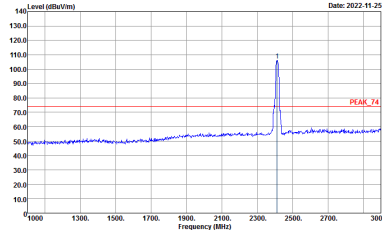
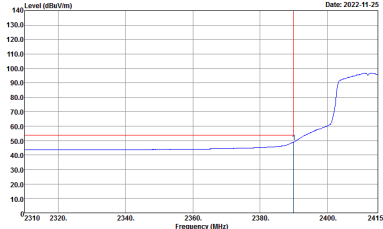
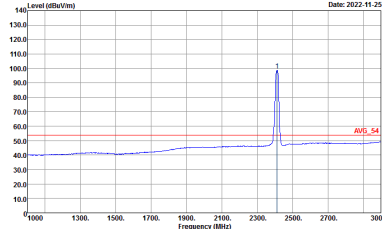
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00227856 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227856 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00227856 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	 <p>Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00227856 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>



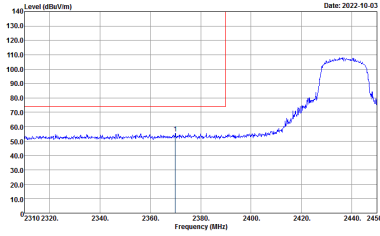
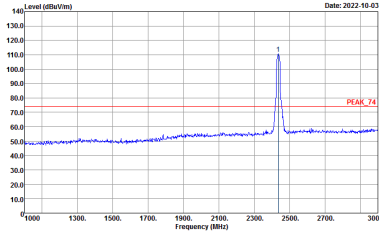
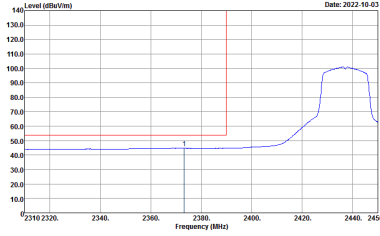
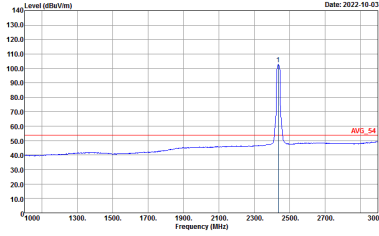
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH07-HY Condition : PEAK_F4 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_BE_S4 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3.010kHz SWT:Auto</p>	 <p>Site : 03CH07-HY Condition : AVG_S4 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3.010kHz SWT:Auto</p>

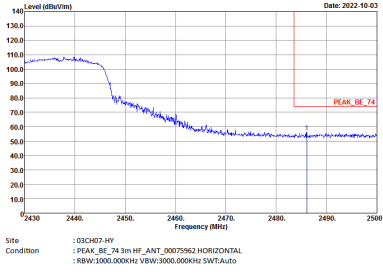
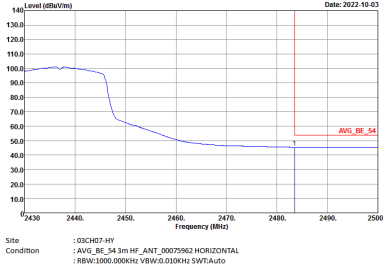


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	 <p>Level (dBu/Vm) vs Frequency (MHz) plot for Vertical Peak. The y-axis ranges from 10.0 to 140.0 dBu/Vm, and the x-axis ranges from 2310 to 2415 MHz. A red vertical line is at 2412 MHz. The signal level is approximately 100 dBu/Vm at 2412 MHz.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Level (dBu/Vm) vs Frequency (MHz) plot for Fundamental Peak. The y-axis ranges from 10.0 to 140.0 dBu/Vm, and the x-axis ranges from 1000 to 3000 MHz. A red vertical line is at 2412 MHz. The signal level is approximately 100 dBu/Vm at 2412 MHz.</p> <p>Site : 03CH07-HY Condition : PEAK_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Level (dBu/Vm) vs Frequency (MHz) plot for Vertical Avg. The y-axis ranges from 10.0 to 140.0 dBu/Vm, and the x-axis ranges from 2310 to 2415 MHz. A red vertical line is at 2412 MHz. The signal level is approximately 60 dBu/Vm at 2412 MHz.</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	 <p>Level (dBu/Vm) vs Frequency (MHz) plot for Fundamental Avg. The y-axis ranges from 10.0 to 140.0 dBu/Vm, and the x-axis ranges from 1000 to 3000 MHz. A red vertical line is at 2412 MHz. The signal level is approximately 60 dBu/Vm at 2412 MHz.</p> <p>Site : 03CH07-HY Condition : AVG_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>

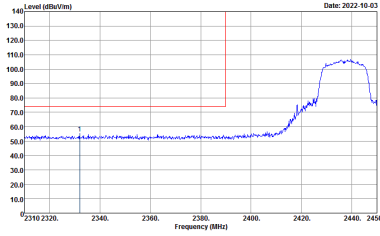
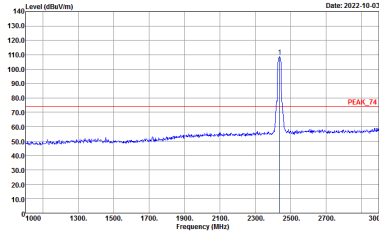
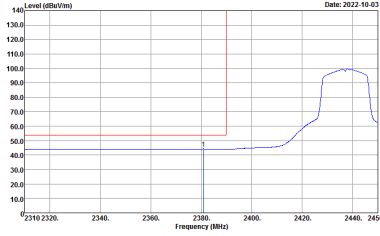
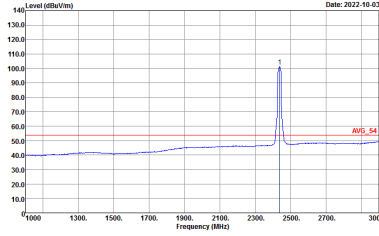


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at approximately 2437 MHz. The y-axis ranges from 10.0 to 140.0 dBu/m, and the x-axis ranges from 2310 to 2450 MHz. A red line indicates the peak level at approximately 105 dBu/m.</p> <p>Site : 03CH07-HY Condition : :PEAK_BE_24.3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a sharp peak at approximately 2437 MHz. The y-axis ranges from 10.0 to 140.0 dBu/m, and the x-axis ranges from 1000 to 3000 MHz. A red line indicates the peak level at approximately 75 dBu/m, labeled 'PEAK_24'.</p> <p>Site : 03CH07-HY Condition : :PEAK_24.3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Level (dBu/m) vs Frequency (MHz) plot showing the average spectrum. The y-axis ranges from 10.0 to 140.0 dBu/m, and the x-axis ranges from 2310 to 2450 MHz. A red line indicates the average level at approximately 50 dBu/m.</p> <p>Site : 03CH07-HY Condition : :AVG_BE_24.3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.0100kHz SWT:Auto</p>	 <p>Level (dBu/m) vs Frequency (MHz) plot showing the average spectrum. The y-axis ranges from 10.0 to 140.0 dBu/m, and the x-axis ranges from 1000 to 3000 MHz. A red line indicates the average level at approximately 50 dBu/m, labeled 'AVG_24'.</p> <p>Site : 03CH07-HY Condition : :AVG_24.3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.0100kHz SWT:Auto</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

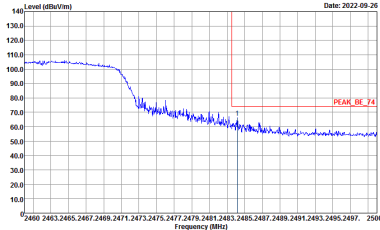
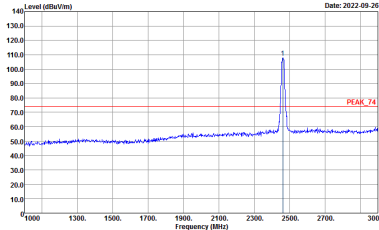
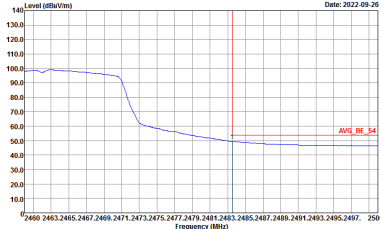
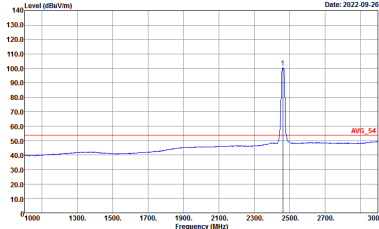


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 <p>Date: 2022-10-03</p> <p>Site : 03CH07-HY Condition : :PEAK_BE_24.3m HF_ANT_00075963 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Date: 2022-10-03</p> <p>Site : 03CH07-HY Condition : :PEAK_24.3m HF_ANT_00075963 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Date: 2022-10-03</p> <p>Site : 03CH07-HY Condition : :AVG_BE_24.3m HF_ANT_00075963 VERTICAL : RBW:1000.000kHz VBW:5.000kHz SWT:Auto</p>	 <p>Date: 2022-10-03</p> <p>Site : 03CH07-HY Condition : :AVG_24.3m HF_ANT_00075963 VERTICAL : RBW:1000.000kHz VBW:5.000kHz SWT:Auto</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	<p>Site : 03CH07-HY Condition : PEAK_BE_74.3m HF_ANT_00075963 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWFAuto</p>	Left Blank
Avg.	<p>Site : 03CH07-HY Condition : AVG_BE_54.3m HF_ANT_00075963 VERTICAL : RBW:1000.000kHz VBW:5.000kHz SWFAuto</p>	Left Blank

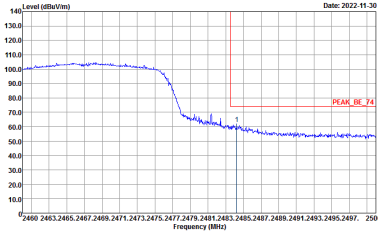
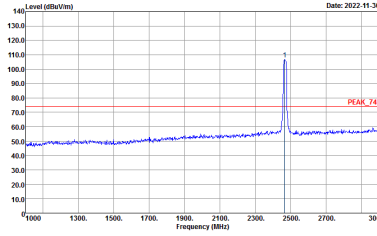
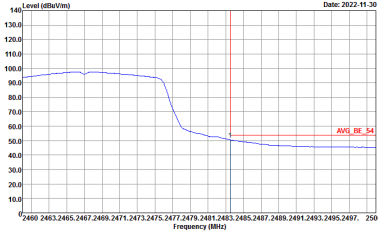
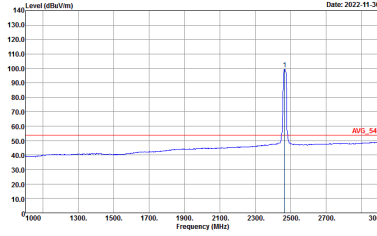


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 <p>Date: 2022-09-26</p> <p>Site : 03CH07-HY Condition : :PEAK_BE_34 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Date: 2022-09-26</p> <p>Site : 03CH07-HY Condition : :PEAK_34 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Date: 2022-09-26</p> <p>Site : 03CH07-HY Condition : :AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.0100kHz SWT:Auto</p>	 <p>Date: 2022-09-26</p> <p>Site : 03CH07-HY Condition : :AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.0100kHz SWT:Auto</p>

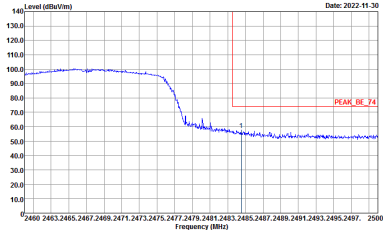
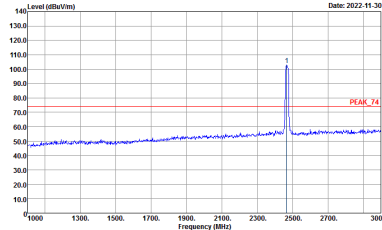
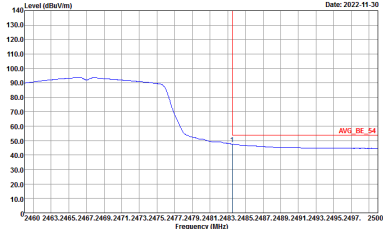
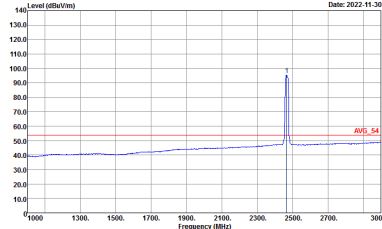


WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Vertical	Fundamental
Peak	<p>Date: 2022-09-26</p> <p>Site : 03CH07-HY Condition : :PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Date: 2022-09-26</p> <p>Site : 03CH07-HY Condition : :PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	<p>Date: 2022-09-26</p> <p>Site : 03CH07-HY Condition : :AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:5.000kHz SWT:Auto</p>	<p>Date: 2022-09-26</p> <p>Site : 03CH07-HY Condition : :AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1	Horizontal	Fundamental
Peak	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing a peak at 2467 MHz. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 2400 to 2500 MHz. A red horizontal line indicates the peak level at approximately 74 dBuV/m.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00227856 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing a sharp peak at 2467 MHz. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 1000 to 3000 MHz. A red horizontal line indicates the peak level at approximately 74 dBuV/m.</p> <p>Site : 03CH07-HY Condition : PEAK_24 3m HF_ANT_00227856 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing the average spectrum. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 2400 to 2500 MHz. A red horizontal line indicates the average level at approximately 54 dBuV/m.</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00227856 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing the average spectrum. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 1000 to 3000 MHz. A red horizontal line indicates the average level at approximately 54 dBuV/m.</p> <p>Site : 03CH07-HY Condition : AVG_24 3m HF_ANT_00227856 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1	Vertical	Fundamental
Peak	 <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The plot shows a signal level around 90 dBuV/m from 2400 MHz to 2460 MHz, which then drops to approximately 55 dBuV/m after 2467 MHz. A red vertical line marks the peak at 2467 MHz, labeled 'PEAK_BE_74'.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00227856 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot for Fundamental polarization. The plot shows a signal level around 75 dBuV/m from 2400 MHz to 2460 MHz, with a sharp peak at 2467 MHz reaching approximately 105 dBuV/m. A red vertical line marks the peak at 2467 MHz, labeled 'PEAK_74'.</p> <p>Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227856 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization (Average). The plot shows a signal level around 90 dBuV/m from 2400 MHz to 2460 MHz, which then drops to approximately 50 dBuV/m after 2467 MHz. A red vertical line marks the peak at 2467 MHz, labeled 'AVG_BE_54'.</p> <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00227856 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot for Fundamental polarization (Average). The plot shows a signal level around 50 dBuV/m from 2400 MHz to 2460 MHz, with a sharp peak at 2467 MHz reaching approximately 100 dBuV/m. A red vertical line marks the peak at 2467 MHz, labeled 'AVG_54'.</p> <p>Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00227856 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>