



FCC RADIO TEST REPORT

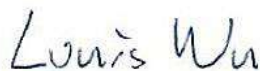
FCC ID : U8G-P1AX203
Equipment : Peplink Pepwave Wireless Product
Brand Name :



Model Name : MAX BR2 Pro
MAX-BR2-PRO-5GH-T-PRM
Applicant : PISMO LABS TECHNOLOGY LIMITED
A8, 5/F, HK Spinners Industrial Building, Phase 6, 481
Castle Peak Road, Cheung Sha Wan, Hong Kong
Manufacturer : PISMO LABS TECHNOLOGY LIMITED
A8, 5/F, HK Spinners Industrial Building, Phase 6, 481
Castle Peak Road, Cheung Sha Wan, Hong Kong
Standard : FCC Part 15 Subpart C §15.247

The product was received on Jun. 07 2022 and testing was performed from Jul. 04, 2022 to Dec. 06, 2022. We, Sporton International Inc. Wensan 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. Wensan Laboratory, the test report shall not be reproduced except in full.



Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

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



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History of this test report

Report No.	Version	Description	Issue Date
FR260702A	01	Initial issue of report	Dec. 15, 2022
FR260702A	02	Separate Setup Photographs	Dec. 19, 2022



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	1.15 dB under the limit at 2483.560 MHz
3.6	15.207	AC Conducted Emission	Pass	16.44 dB under the limit at 0.152 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:

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

Reviewed by: Lewis Ho**Report Producer: Cindy Liu**



1 General Description

1.1 Product Feature of Equipment Under Test

LTE/5G NR, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, and GPS

Product Feature	
Integrated WWAN Module	Brand Name: Sierra Model Name: EM9191 FCC ID: N7NEM91
Antenna Type	WWAN: Omni-directional Antenna WLAN: <Ant. 1>: Omni-directional Antenna <Ant. 2>: Omni-directional Antenna GPS: Directional Antenna

Antenna information		
2412 MHz ~ 2462 MHz	Peak Gain (dBi)	Ant. 1: 2.44 Ant. 2: 2.44

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



1.1.1 Antenna Directional Gain

<For CDD Mode>

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F2)f)ii)

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows:

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

G_{ANT} is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation.

Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

The directional gain "DG" is calculated as following table.

			DG for Power	DG for PSD	Power Limit Reduction	PSD Limit Reduction
	Ant 1 (dBi)	Ant 2 (dBi)	(dBi)	(dBi)	(dB)	(dB)
2.4GHz	2.44	2.44	2.44	5.45	0.00	0.00

Calculation example:

If a device has two antenna, $G_{ANT1} = 2.44\text{dBi}$; $G_{ANT2} = 2.44\text{dBi}$

Directional gain of power measurement = $\max(2.44, 2.44) + 0 = 2.44$ dBi

Directional gain of PSD derived from formula which is

$$10 \times \log \left\{ \left[10^{(2.44 \text{ dBi} / 20)} + 10^{(2.44 \text{ dBi} / 20)} \right]^2 / 2 \right\} \\ = 5.45 \text{ dBi}$$

Power limit reduction = Composite gain – 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)

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 (TAF Code: 1190)
Remark	The AC Conducted Emission test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory

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, 03CH16-HY

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

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.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ 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 two configurations. (Ant. Degree 0 and Ant. Degree 90), 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	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		



2.2 Test Mode

The SISO mode conducted power is covered by MIMO mode per chain, so only the MIMO mode is tested.

The power for 802.11n and 802.11ac mode is smaller than 802.11ax mode, so all other conducted and radiated test is covered by 802.11ax mode.

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

MIMO Antenna

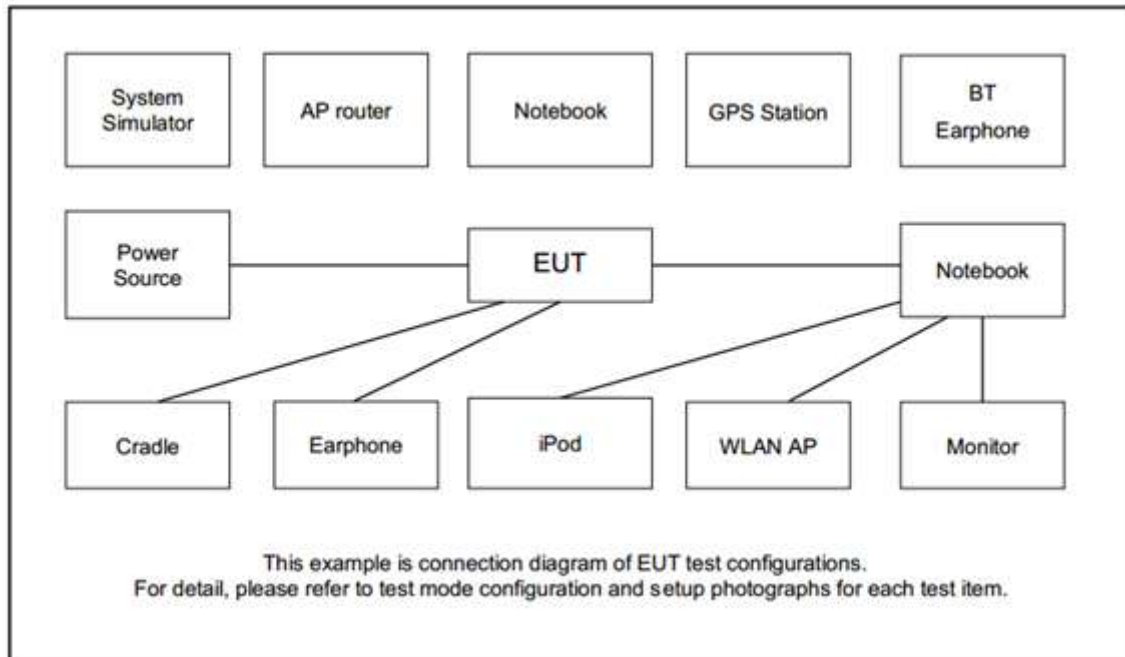
Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20 (Covered by HE20)	MCS0
802.11n HT40 (Covered by HE40)	MCS0
802.11ac VHT20 (Covered by HE20)	MCS0
802.11ac VHT40 (Covered by HE40)	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (2.4GHz) Link + LAN Link + WAN Link + RS232 Load + USB Flash Device + Other LAN port with RJ45 Load + Adapter

Ch. #	2400-2483.5 MHz			
	802.11b	802.11g	802.11ax HE20	802.11ax HE40
Low	01	01	01	03
Middle	06	06	06	06
High	11	11	11	09

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.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
2.	USB Flash Device	Kingston	DTSE9 16GB	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “QSPR Version 5.0-00199” 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.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

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

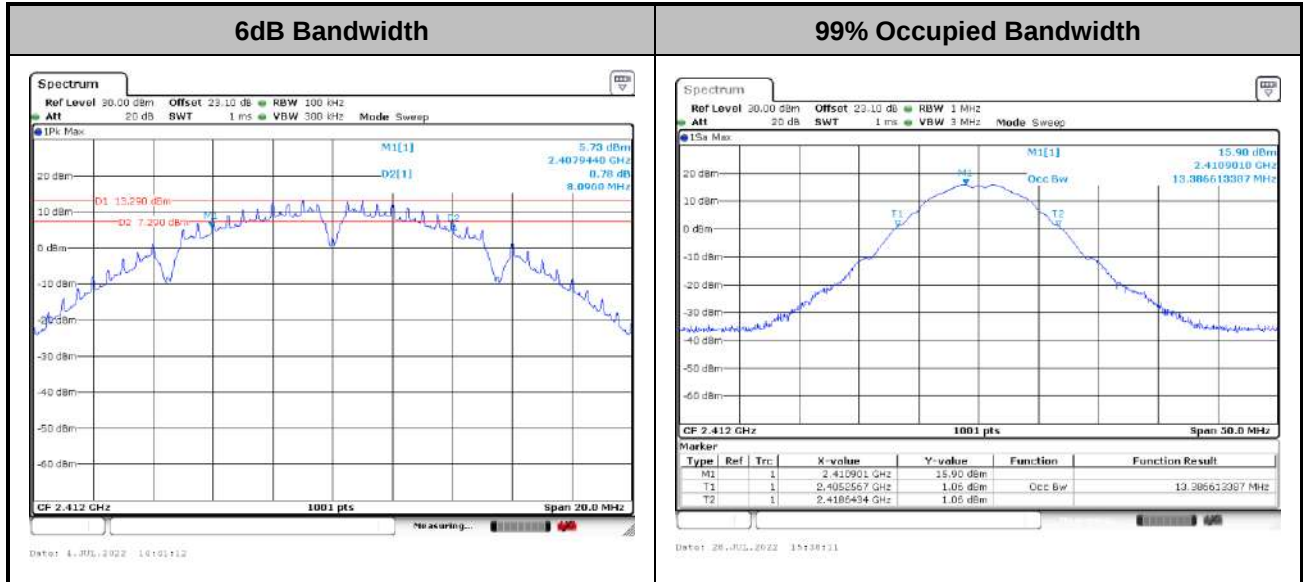




3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

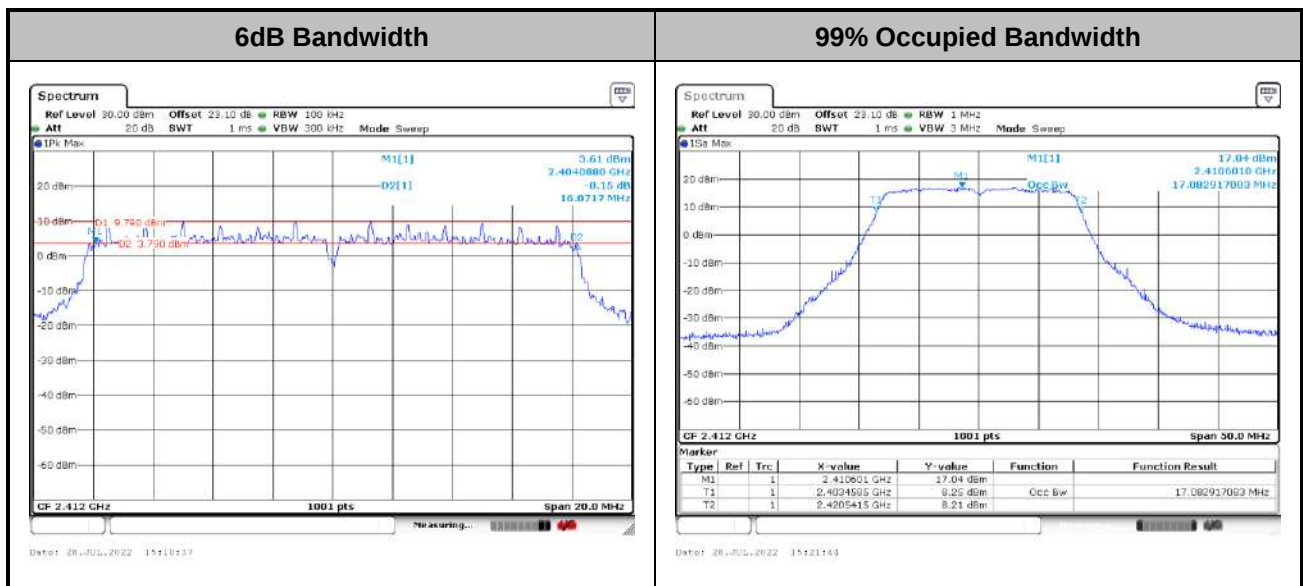
Please refer to Appendix A.

<802.11b>



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

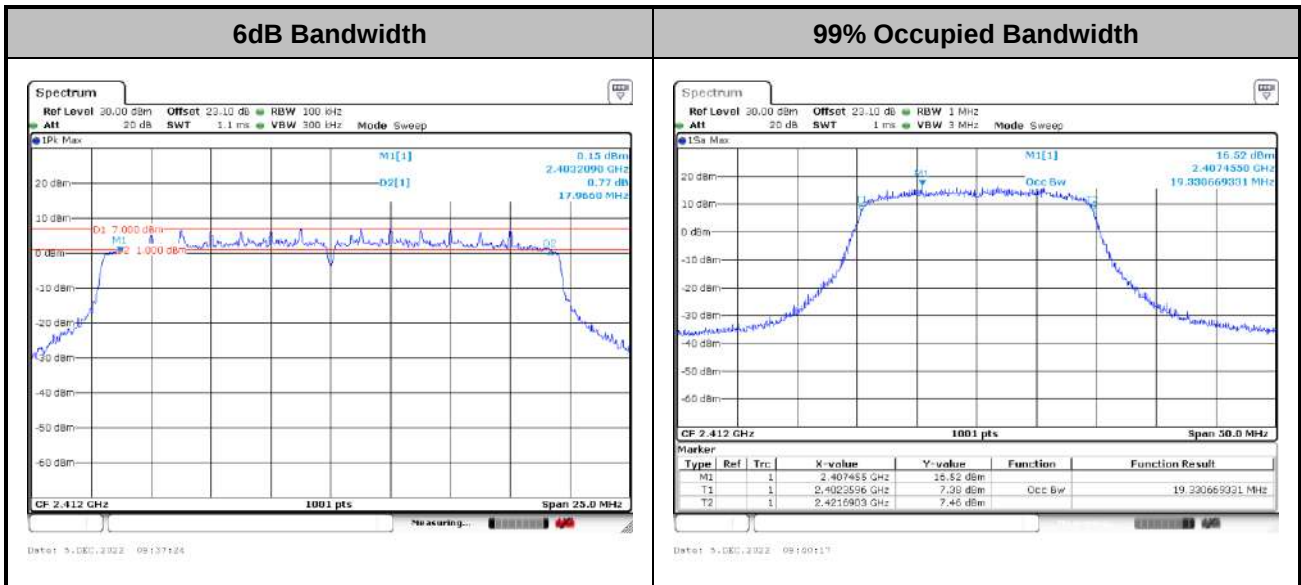
<802.11g>



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

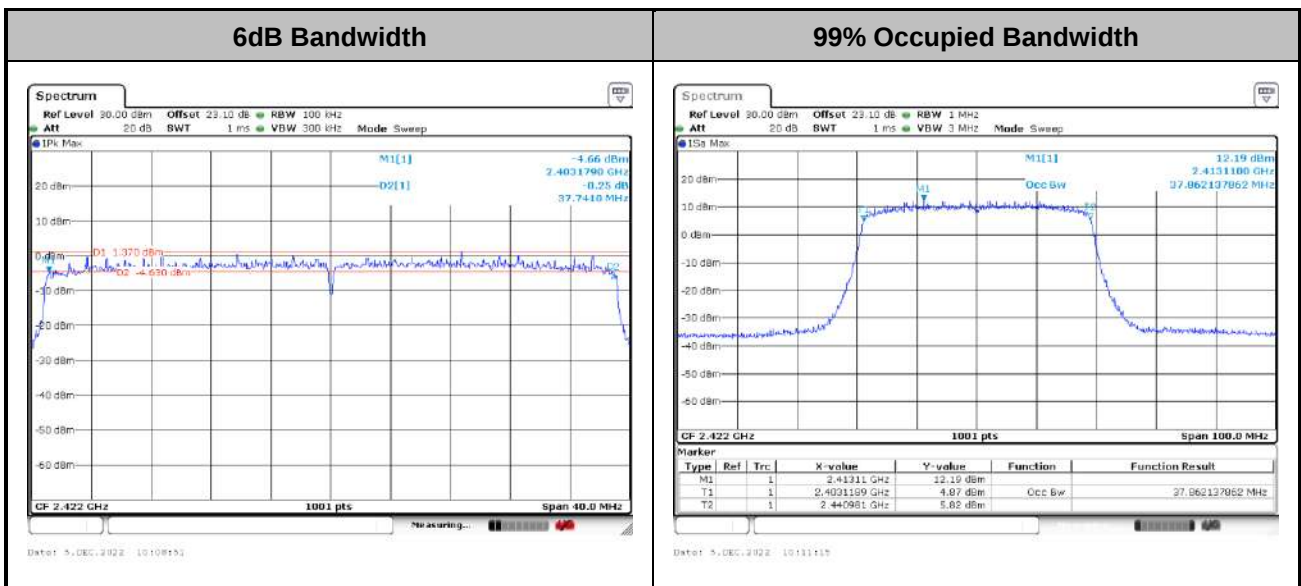


<802.11ax HE20>



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

<802.11ax HE40>



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.

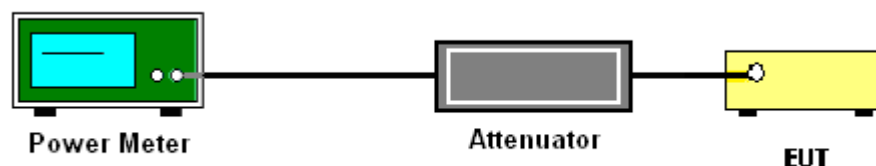
3.2.2 Measuring Instruments

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.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

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.

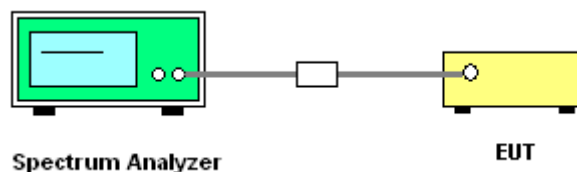
3.3.3 Test Procedures

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.
7. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (c): Measure and add $10 \log(N_{\text{ANT}})$ dB.

With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity $10 \log(N_{\text{ANT}})$ dB is added to each spectrum value before comparing to the emission limit. The addition of $10 \log(N_{\text{ANT}})$ dB serves to apportion the emission limit among the N_{ANT} outputs so that each output is permitted to contribute no more than $1/N_{\text{ANT}}^{\text{th}}$ of the PSD limit .

3.3.4 Test Setup

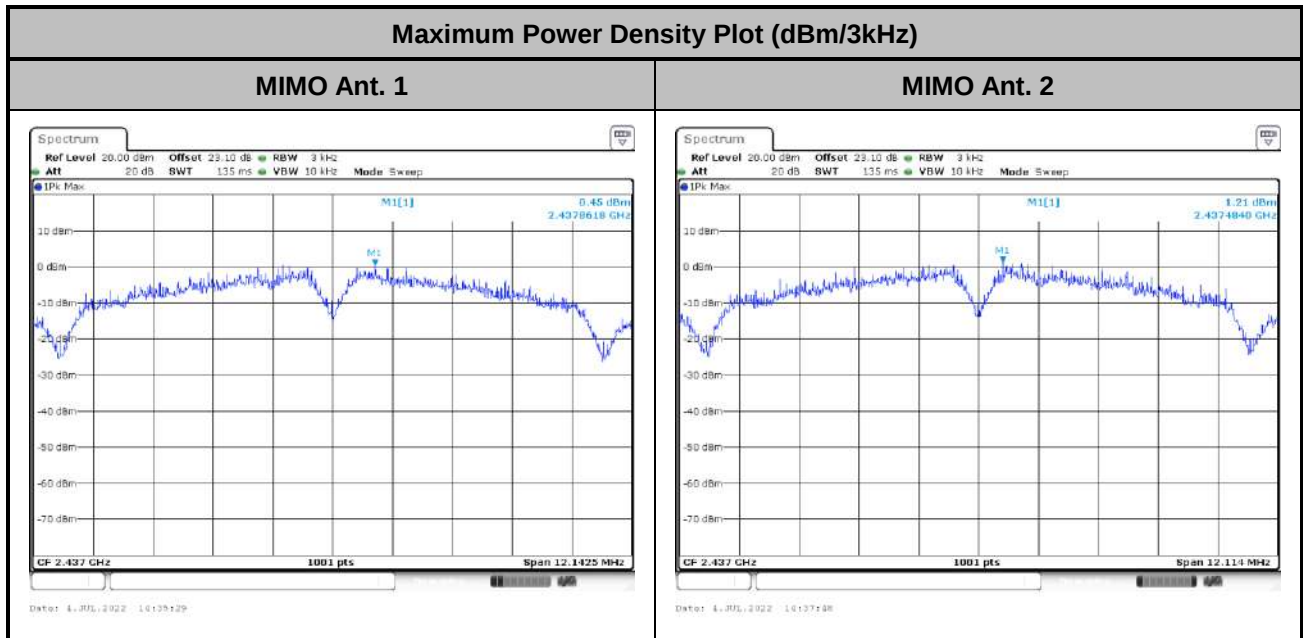




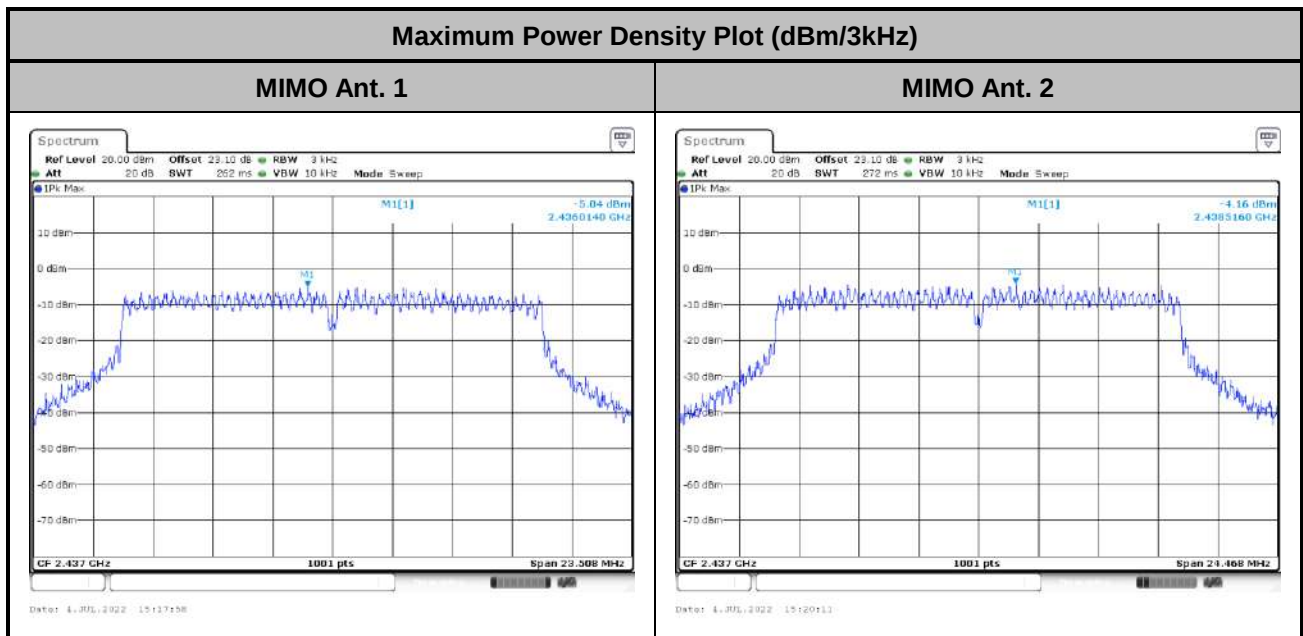
3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

<802.11b>

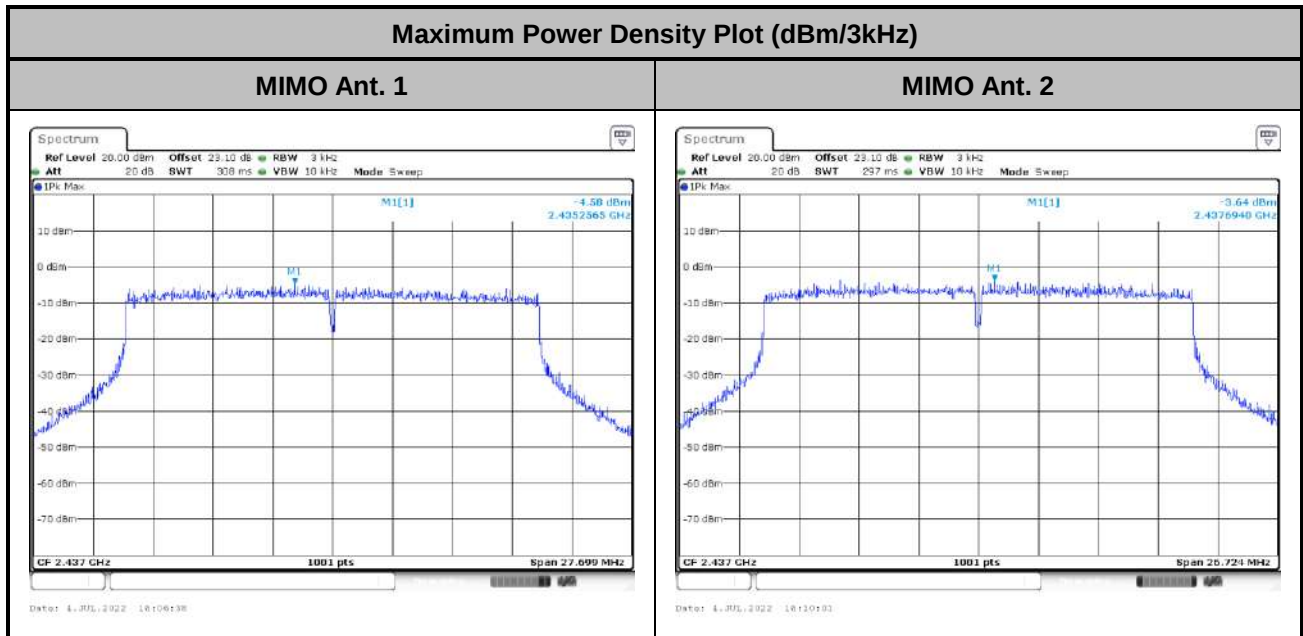


<802.11g>

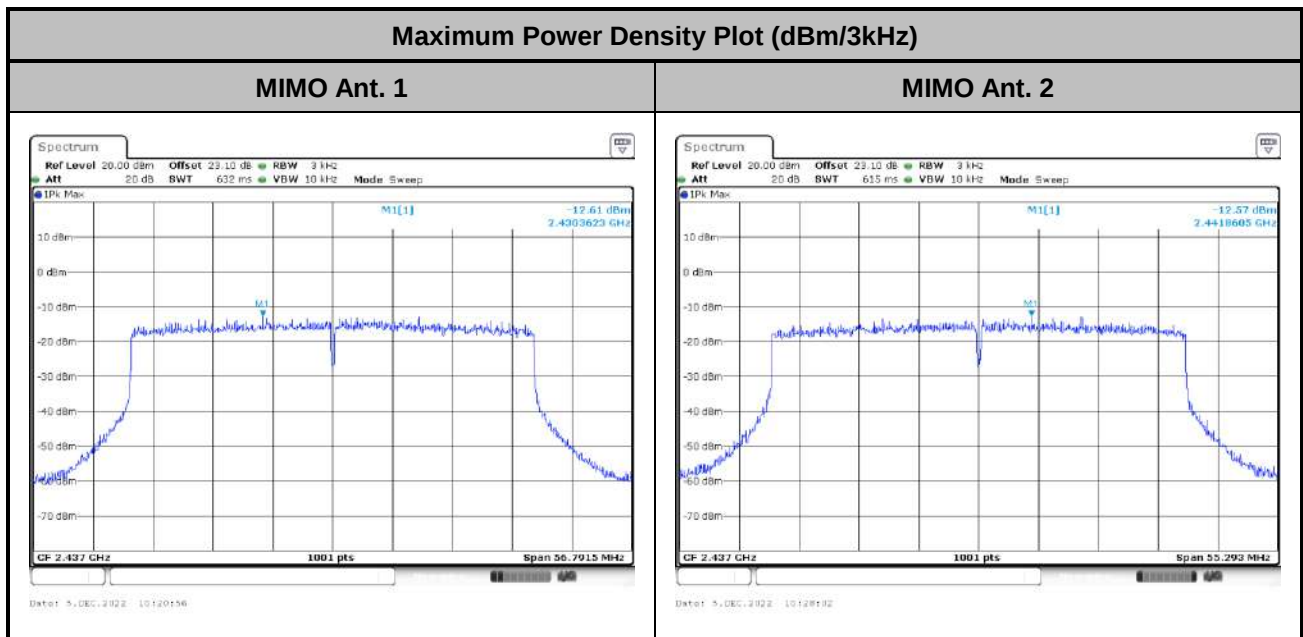




<802.11ax HE20>



<802.11ax HE40>



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.

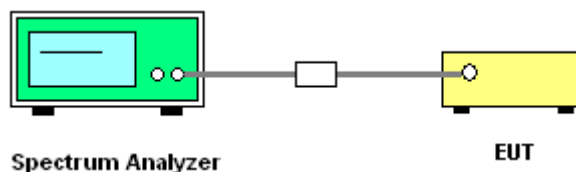
3.4.2 Measuring Instruments

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.

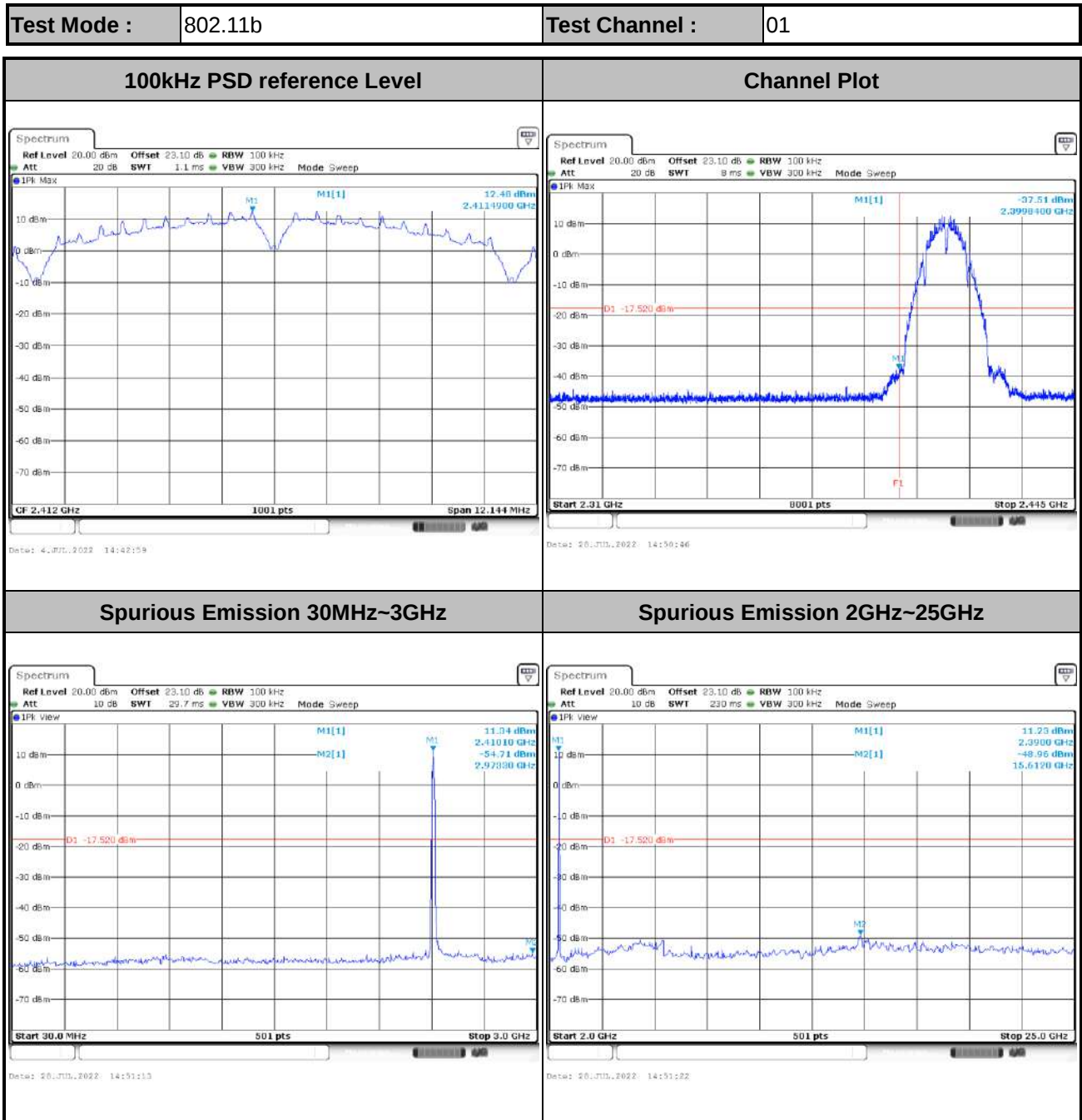
3.4.4 Test Setup

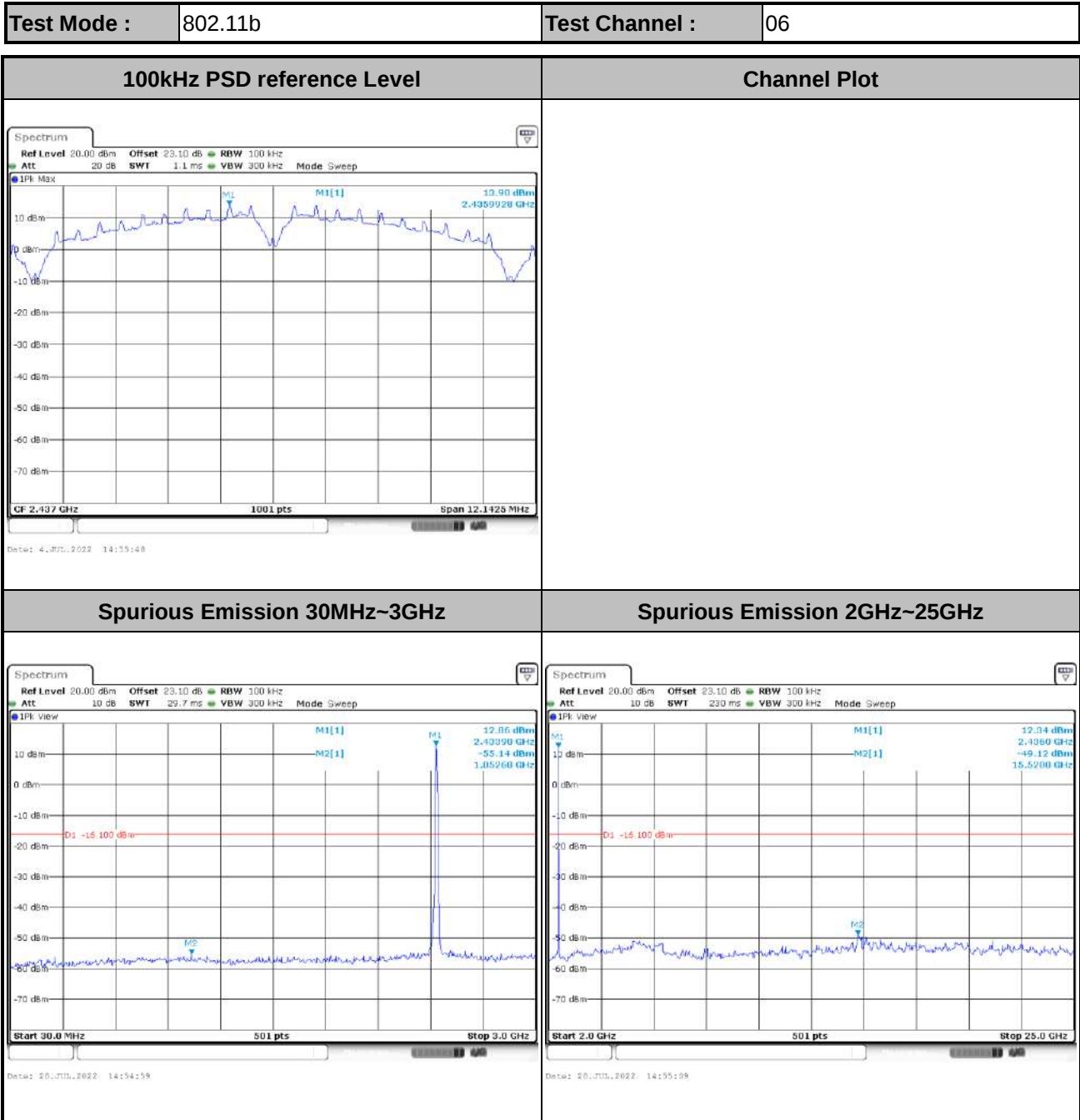




3.4.5 Test Result of Conducted Band Edges and Spurious Emission

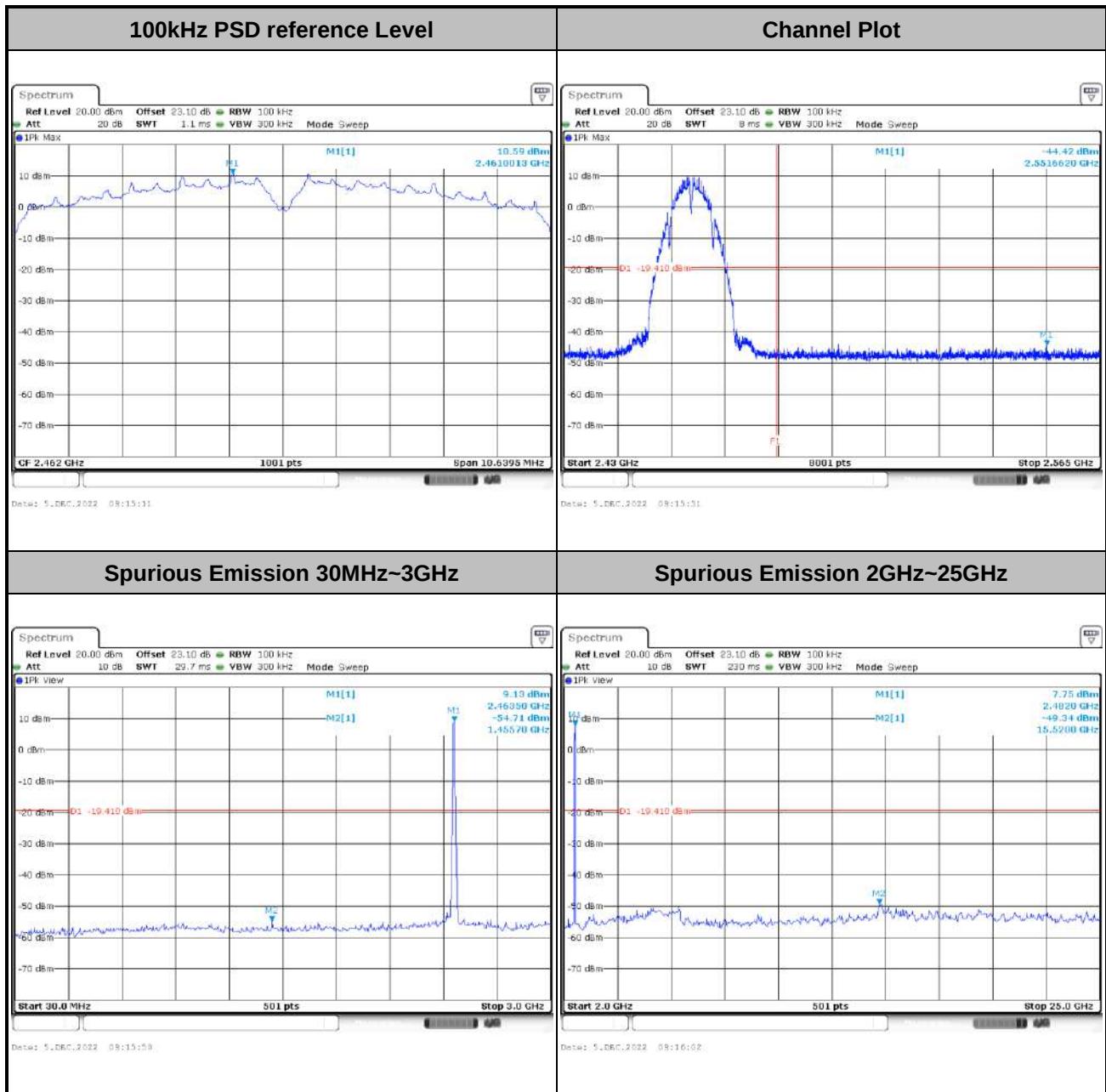
Number of TX = 2, Ant. 1 (Measured)







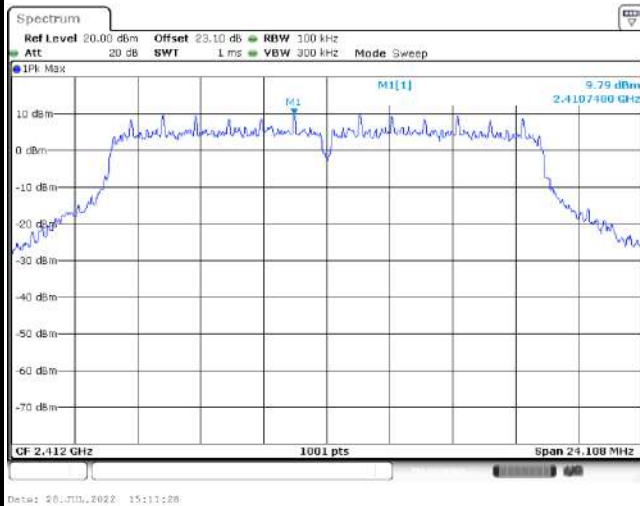
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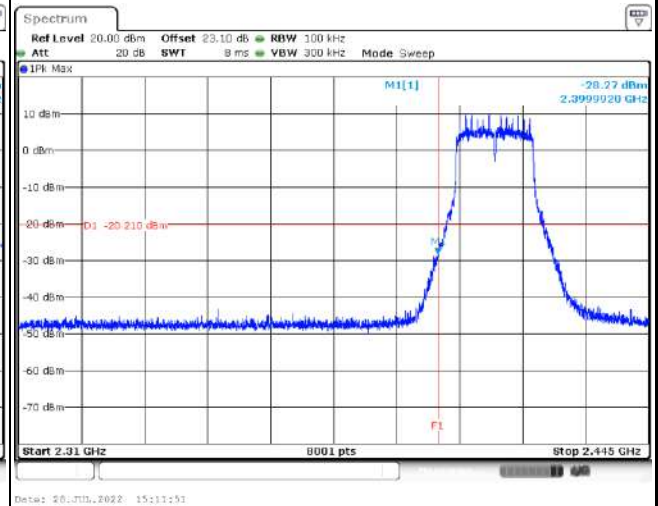


Test Mode :	802.11g	Test Channel :	01
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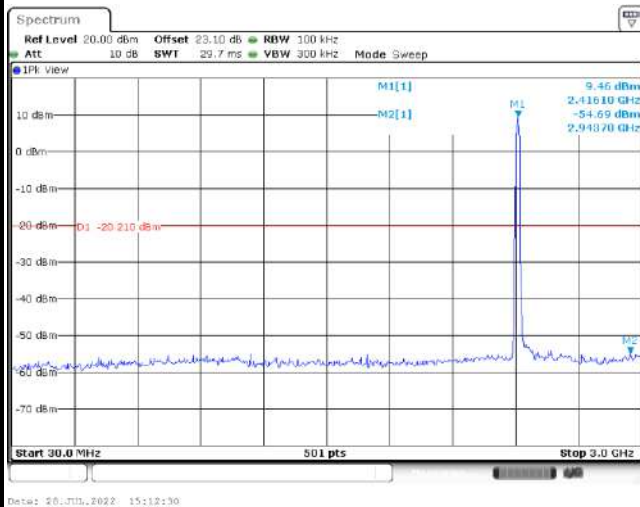
100kHz PSD reference Level



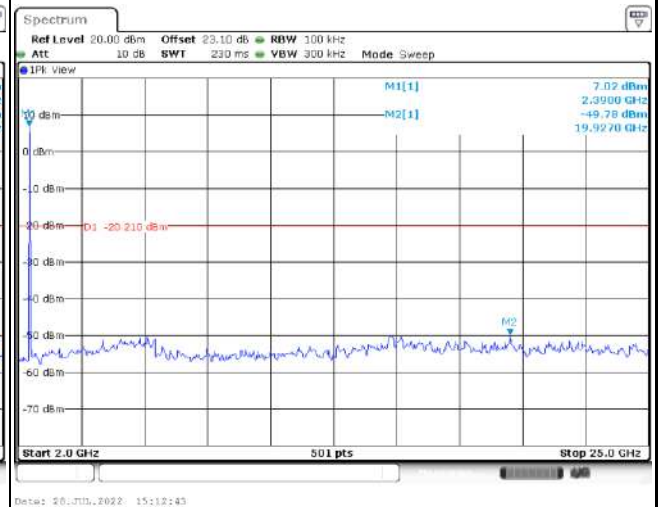
Channel Plot



Spurious Emission 30MHz~3GHz



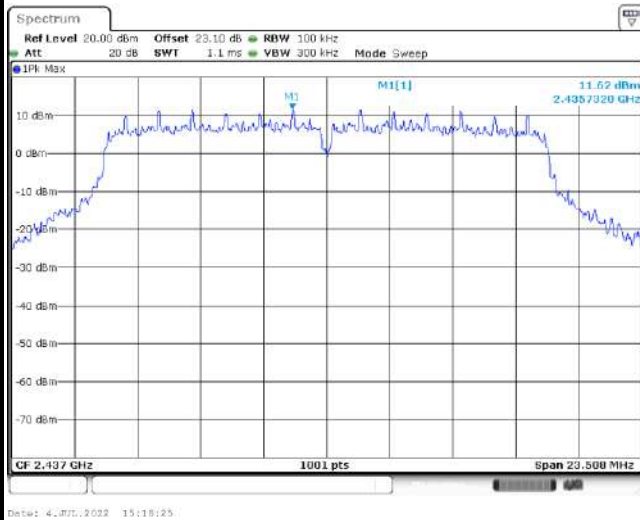
Spurious Emission 2GHz~25GHz





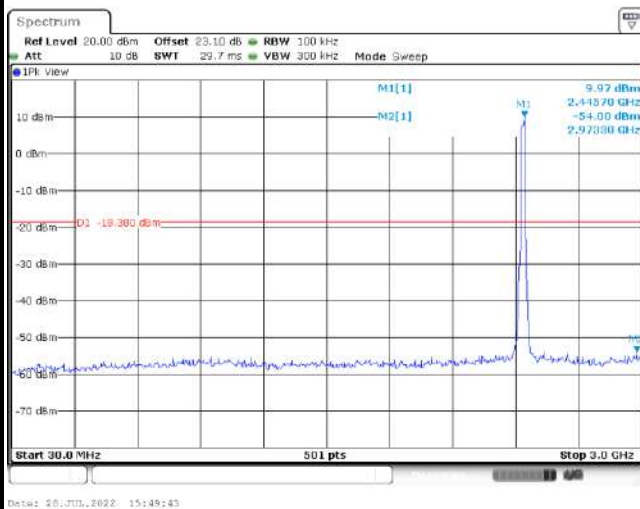
Test Mode :	802.11g	Test Channel :	06
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100kHz PSD reference Level

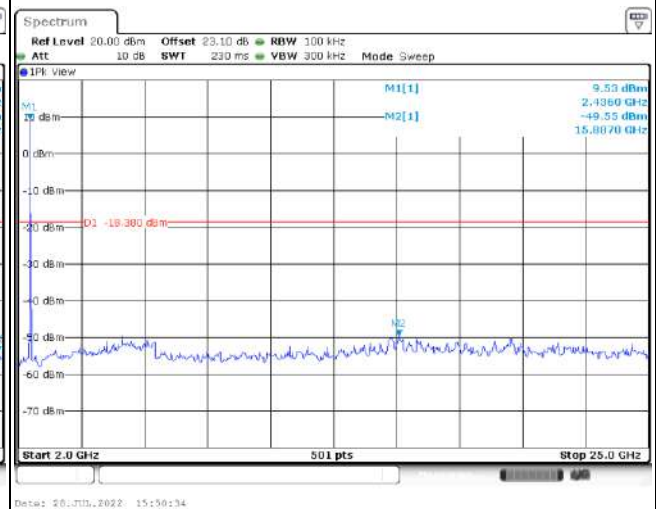


Channel Plot

Spurious Emission 30MHz~3GHz

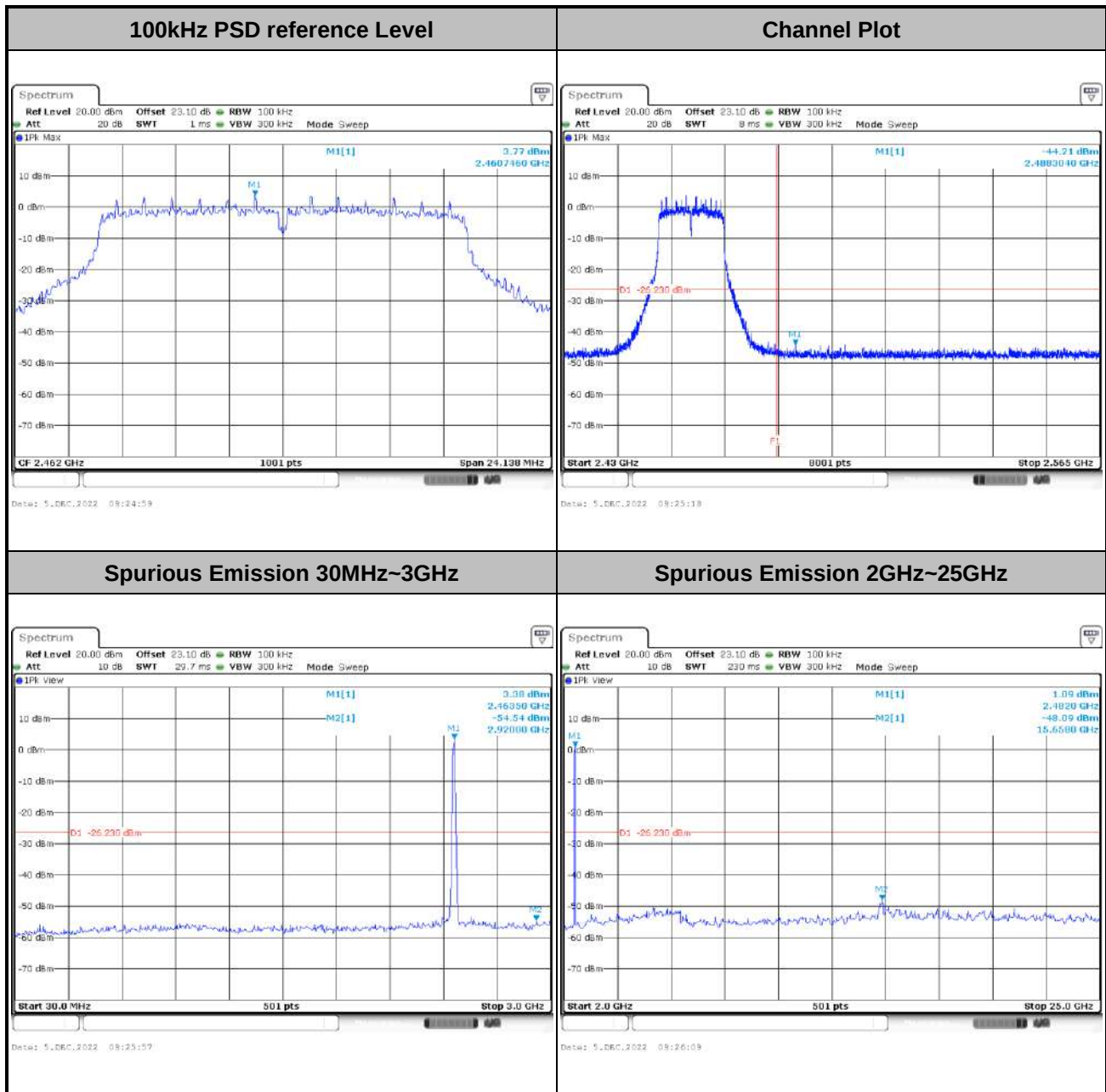


Spurious Emission 2GHz~25GHz





Test Mode :	802.11g	Test Channel :	11
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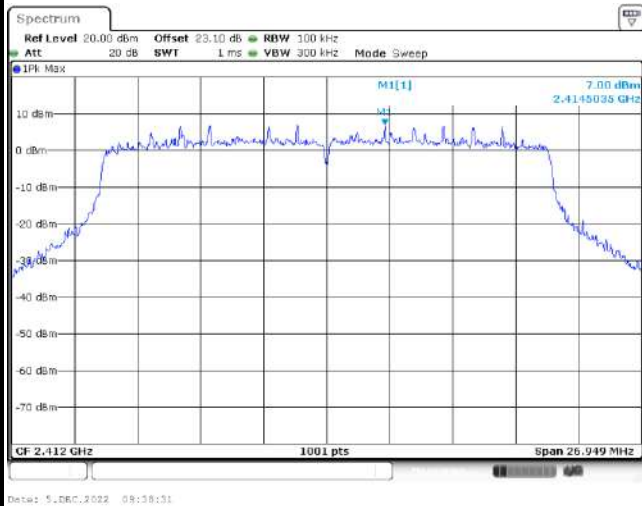




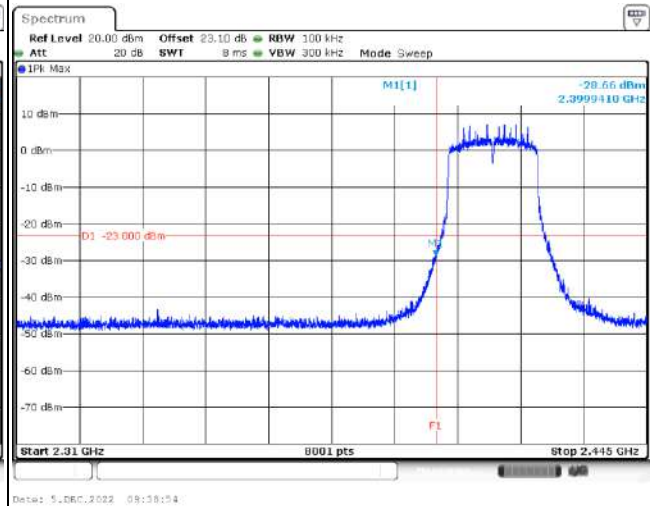
Test Mode : 802.11ax HE20

Test Channel : 01 Full RU

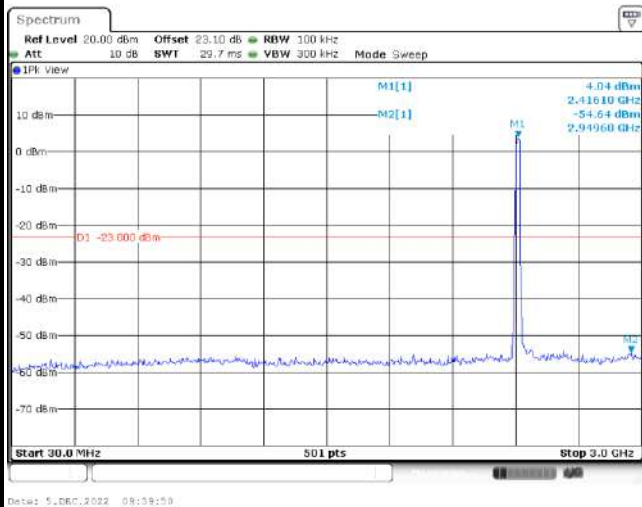
100kHz PSD reference Level



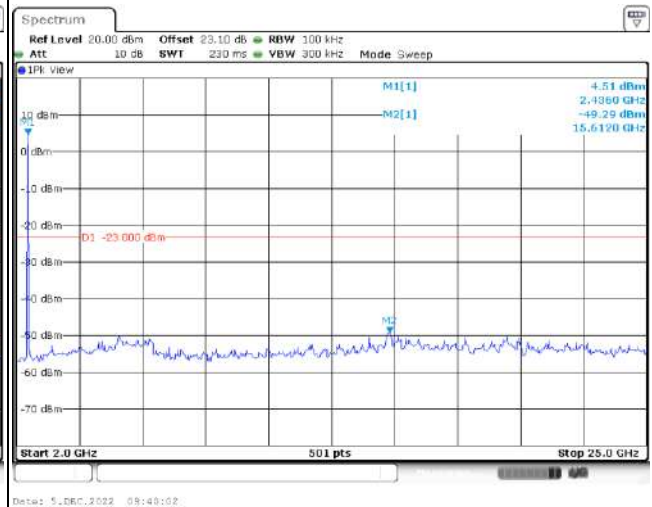
Channel Plot



Spurious Emission 30MHz~3GHz



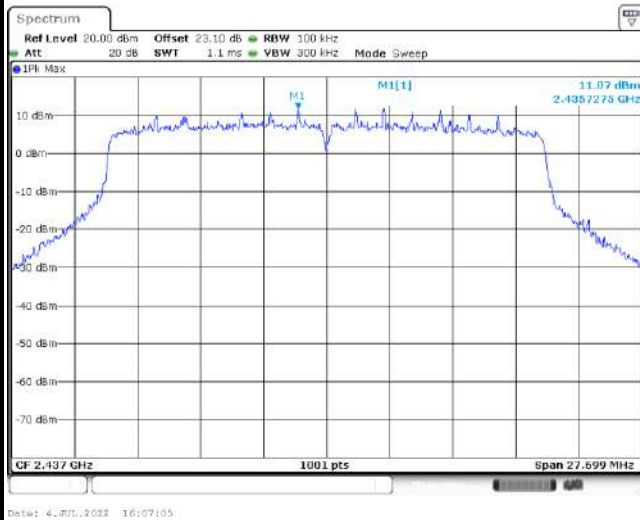
Spurious Emission 2GHz~25GHz





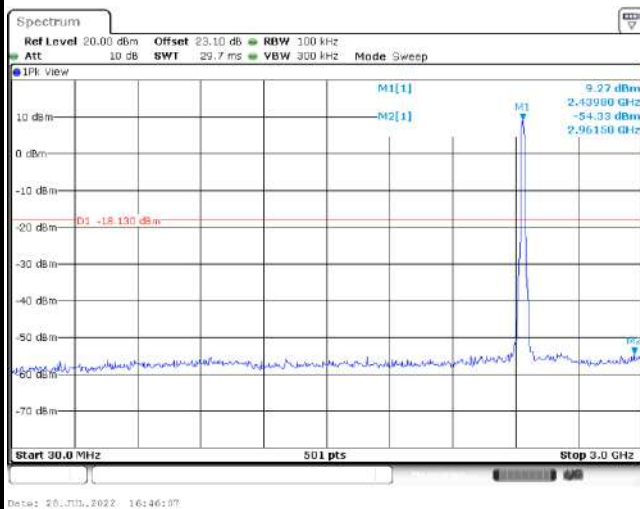
Test Mode :	802.11ax HE20	Test Channel :	06 Full RU
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100kHz PSD reference Level

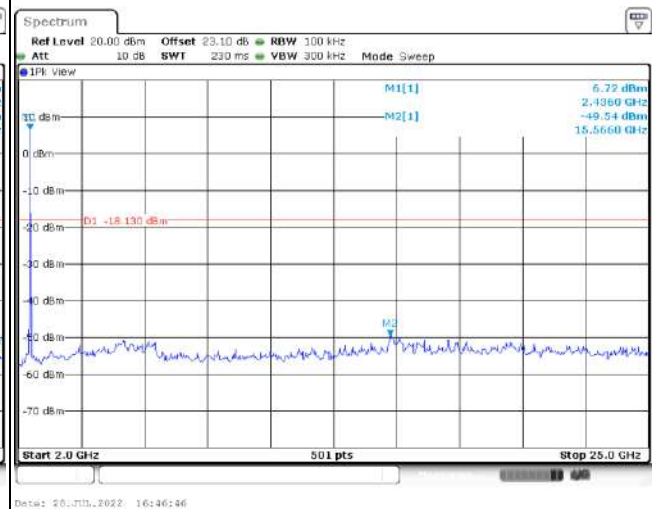


Channel Plot

Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz

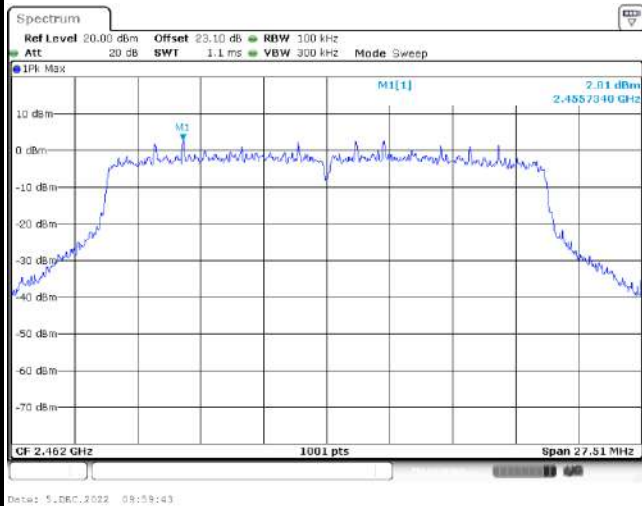




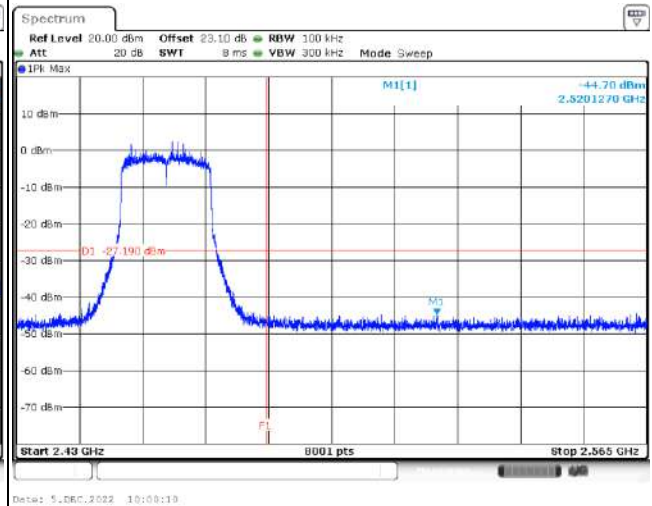
Test Mode : 802.11ax HE20

Test Channel : 11 Full RU

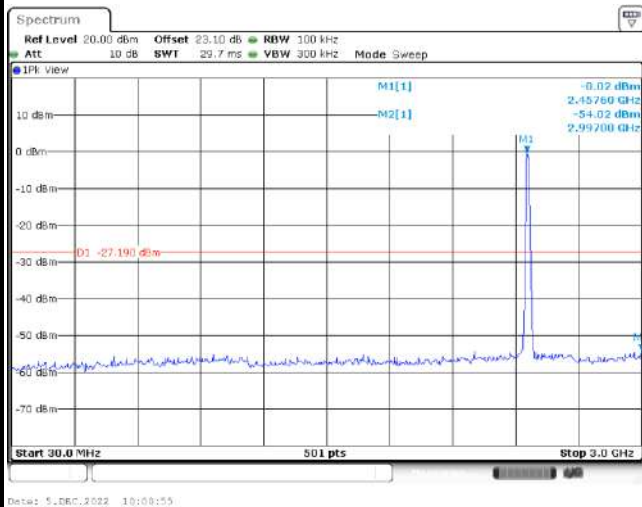
100kHz PSD reference Level



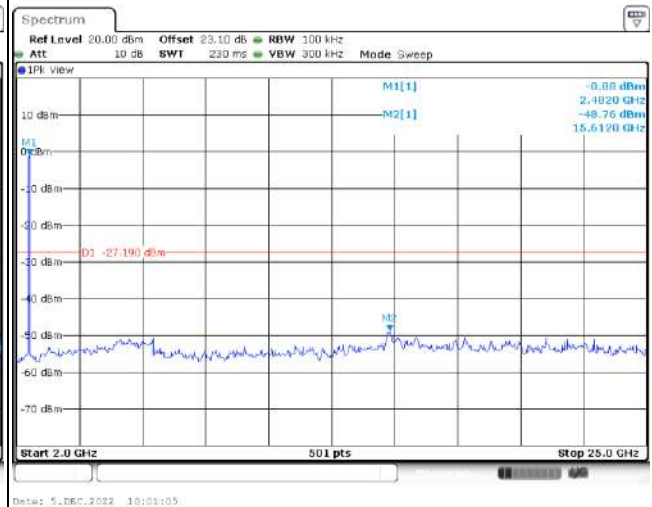
Channel Plot



Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz

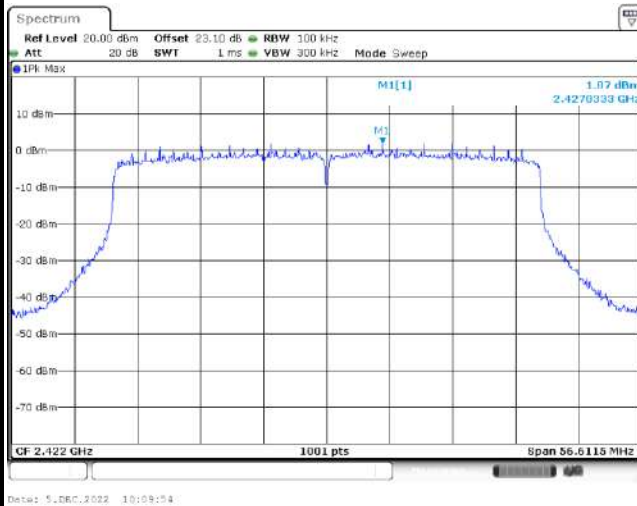




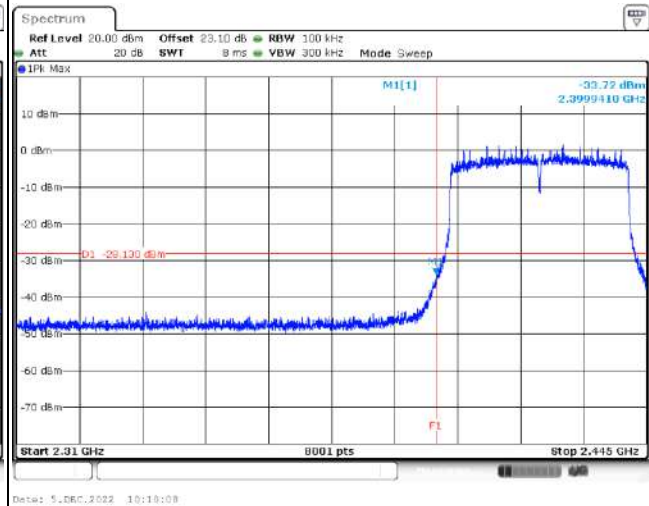
Test Mode : 802.11ax HE40

Test Channel : 03 Full RU

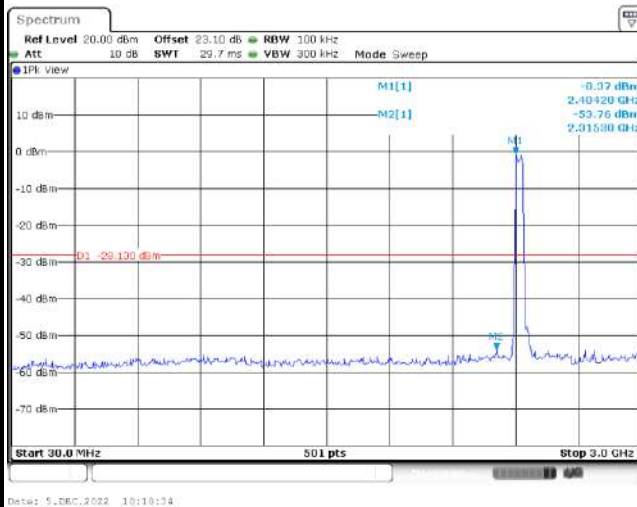
100kHz PSD reference Level



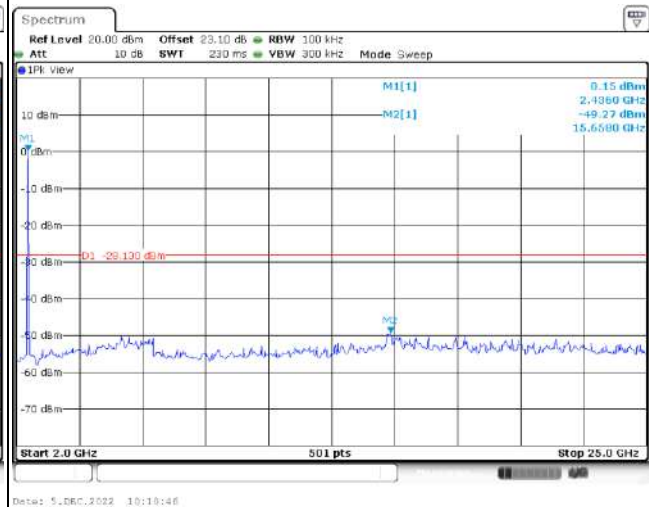
Channel Plot



Spurious Emission 30MHz~3GHz



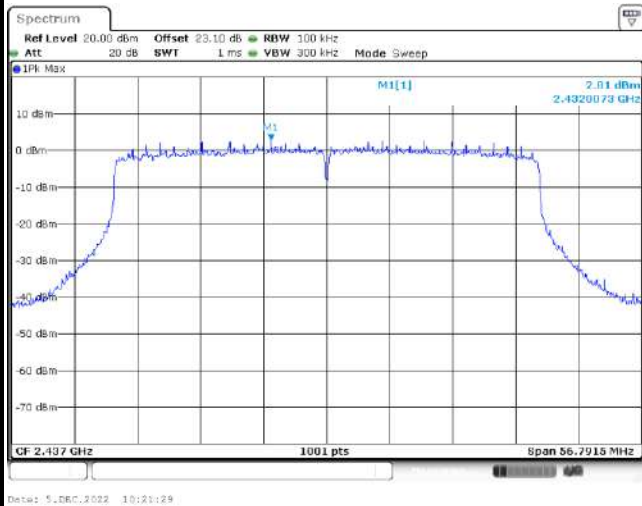
Spurious Emission 2GHz~25GHz





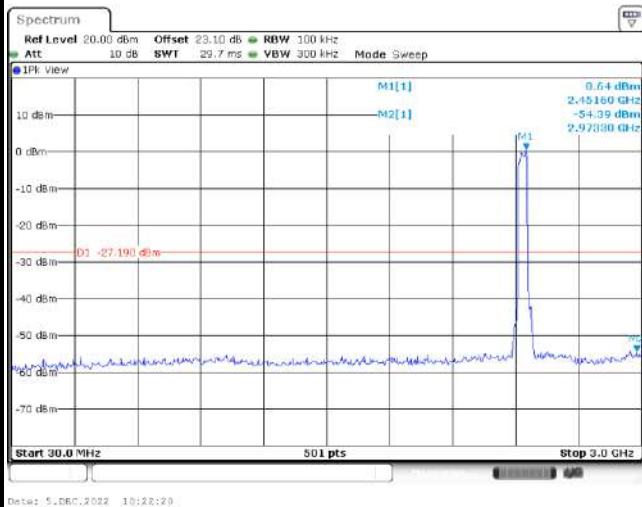
Test Mode :	802.11ax HE40	Test Channel :	06 Full RU
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100kHz PSD reference Level

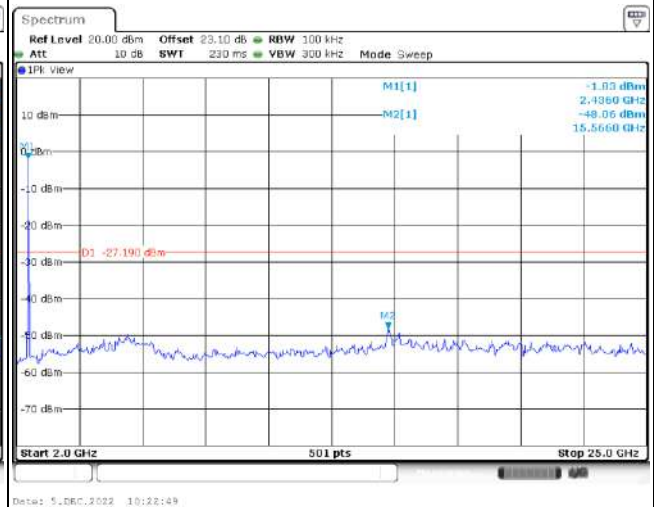


Channel Plot

Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz

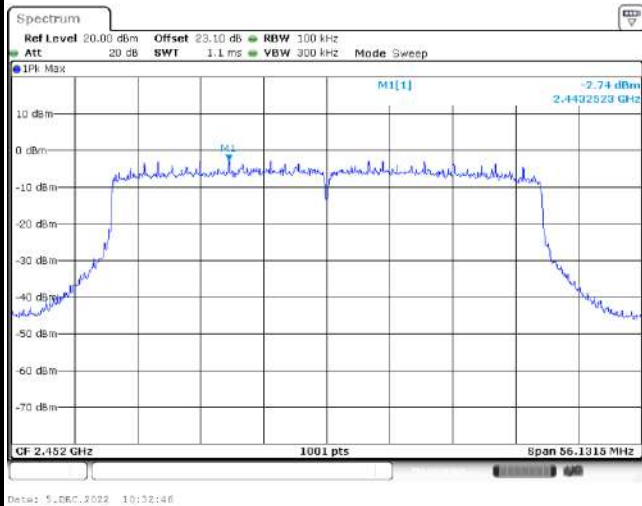




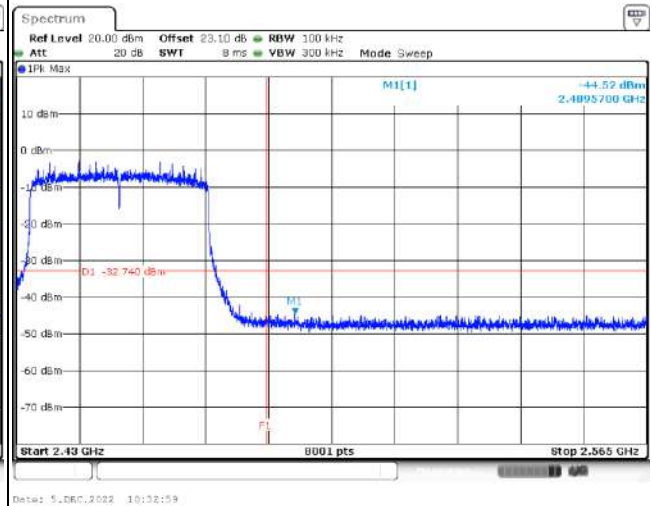
Test Mode : 802.11ax HE40

Test Channel : 09 Full RU

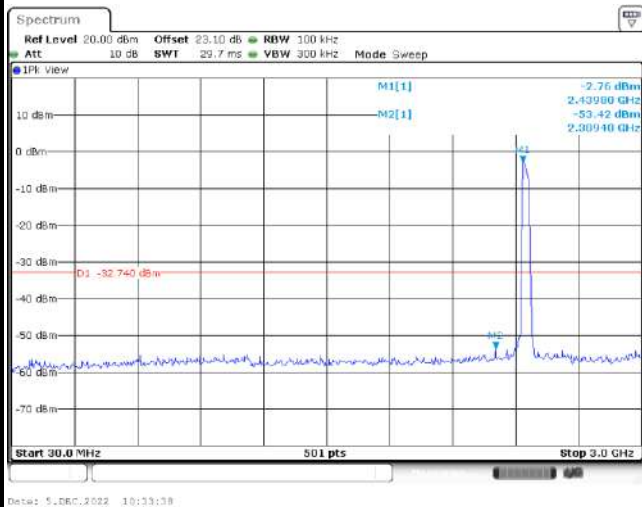
100kHz PSD reference Level



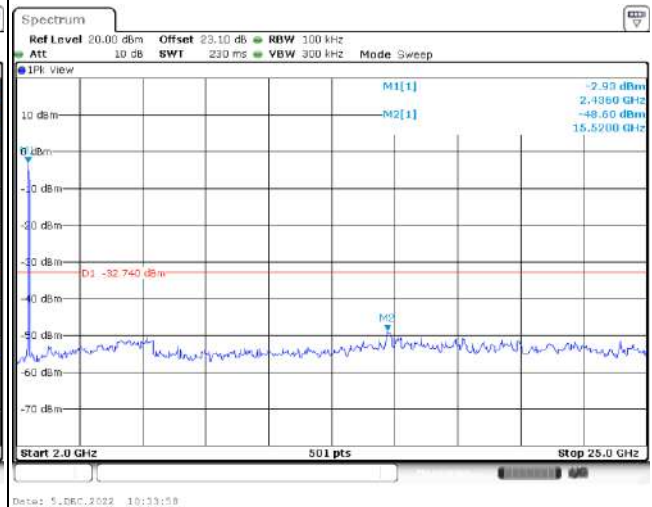
Channel Plot



Spurious Emission 30MHz~3GHz



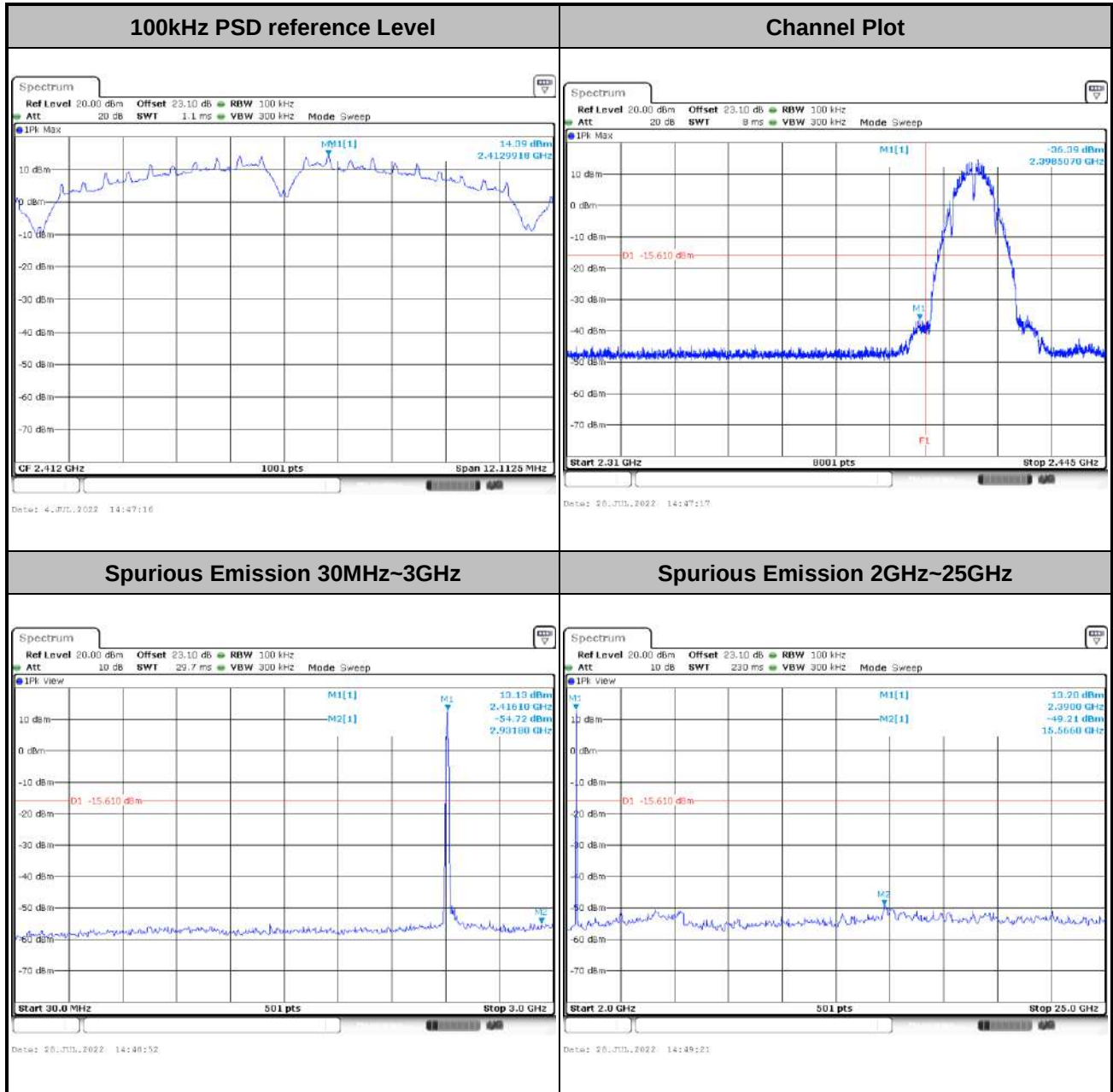
Spurious Emission 2GHz~25GHz

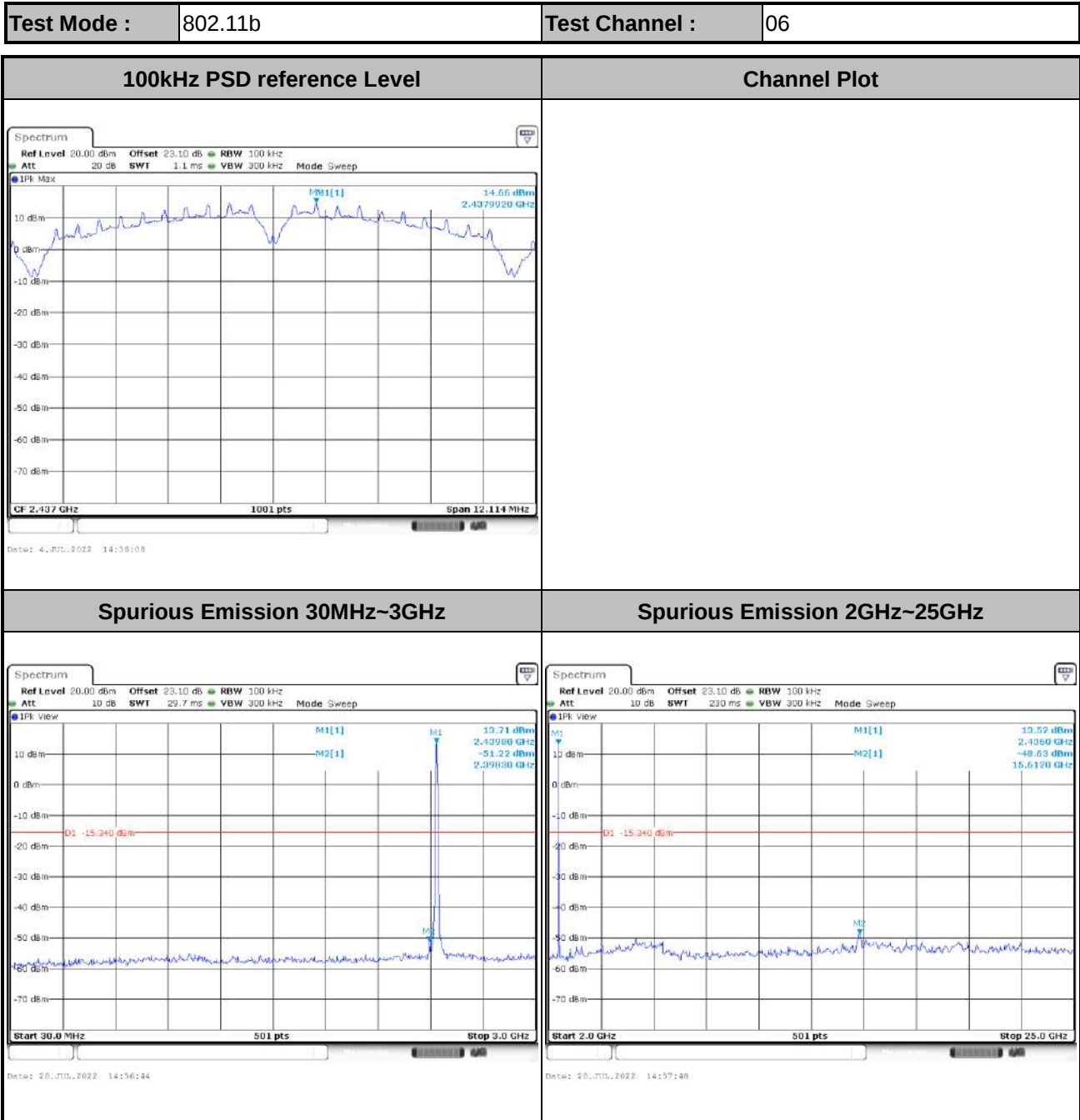




Number of TX = 2, Ant. 2 (Measured)

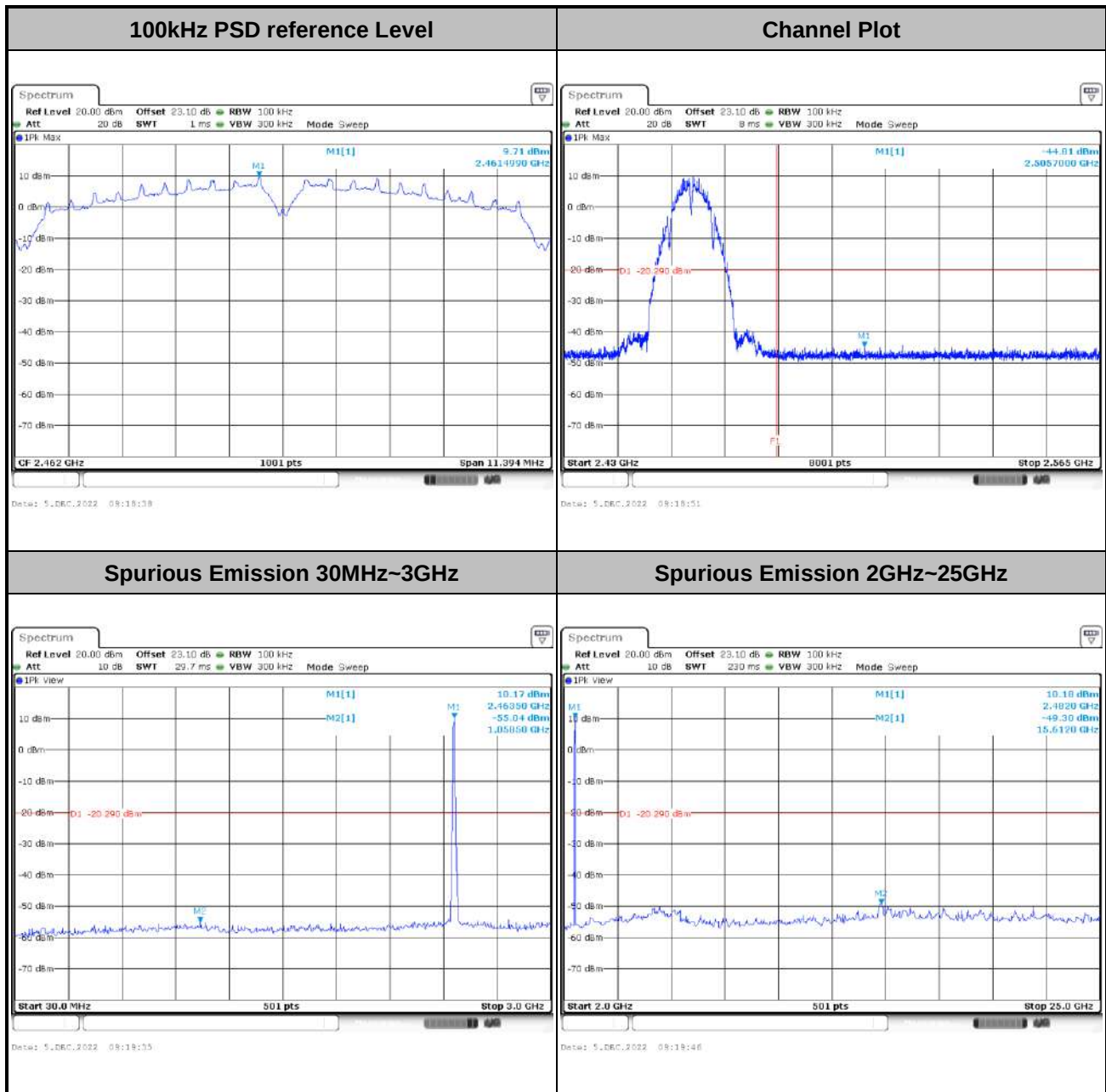
Test Mode :	802.11b	Test Channel :	01
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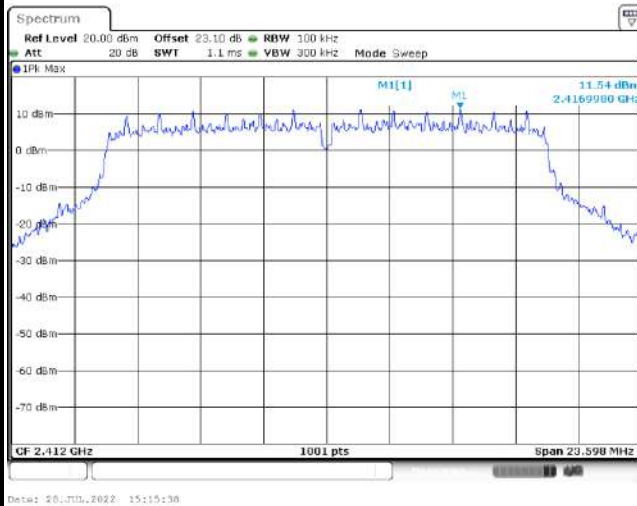
Test Mode :	802.11b	Test Channel :	11
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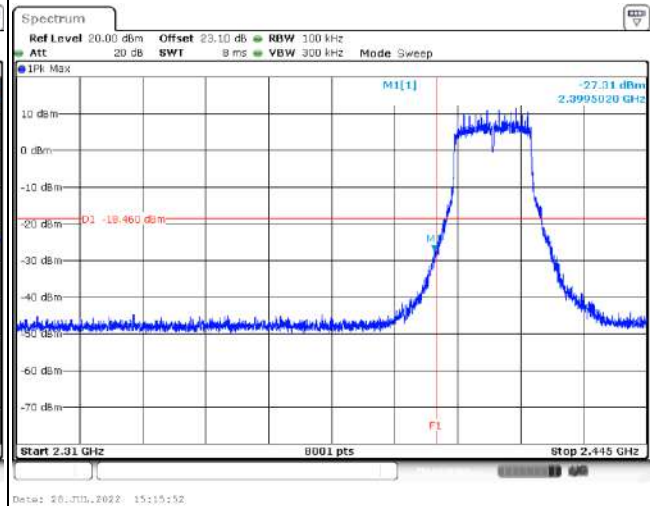


Test Mode :	802.11g	Test Channel :	01
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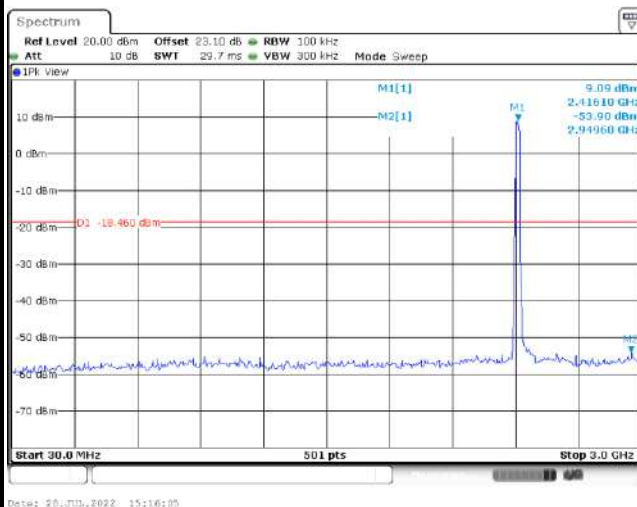
100kHz PSD reference Level



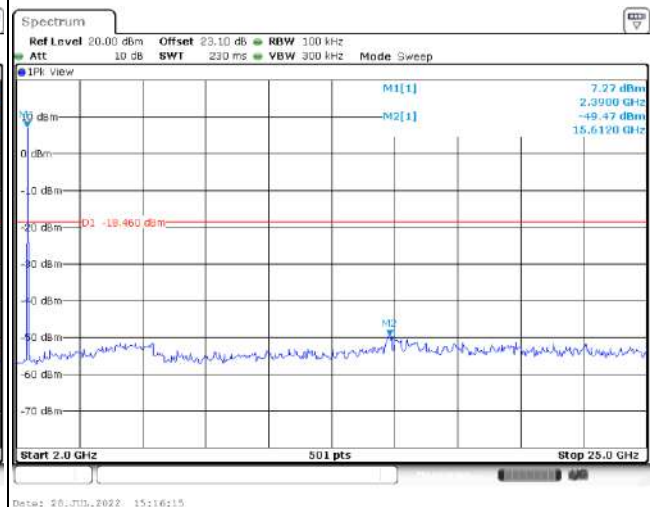
Channel Plot

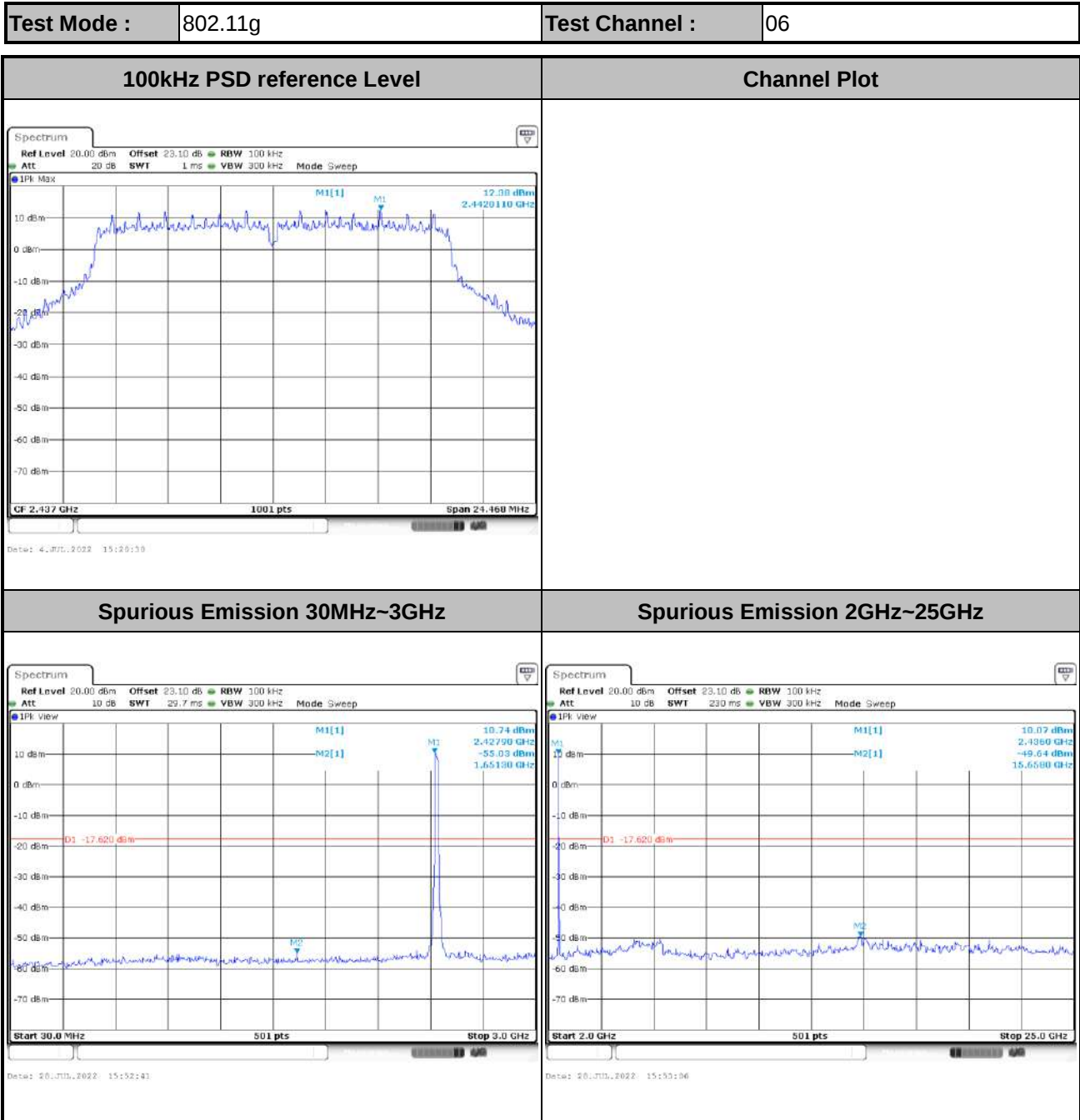


Spurious Emission 30MHz~3GHz



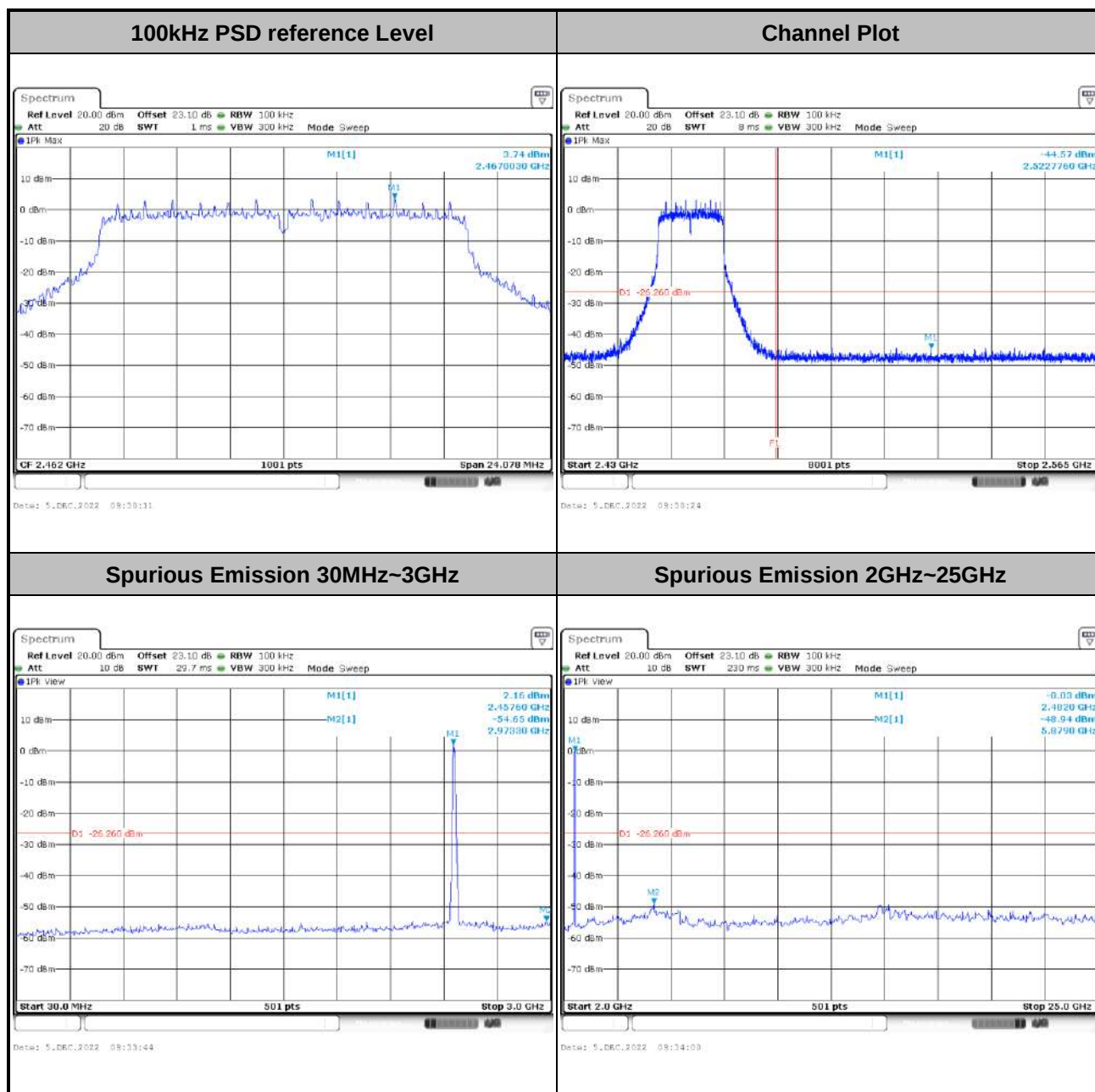
Spurious Emission 2GHz~25GHz







Test Mode :	802.11g	Test Channel :	11
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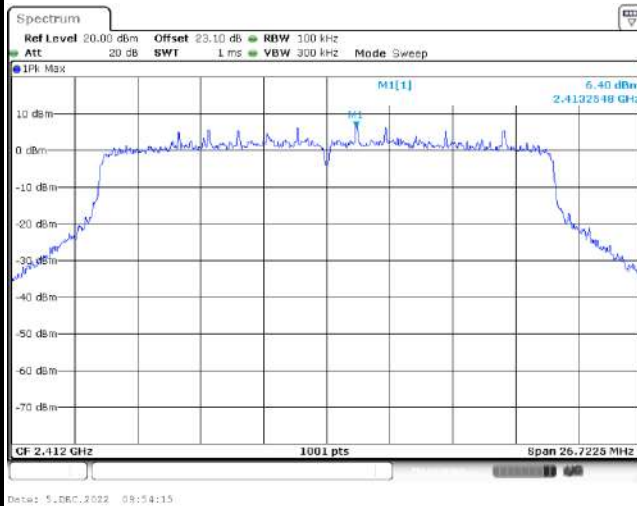




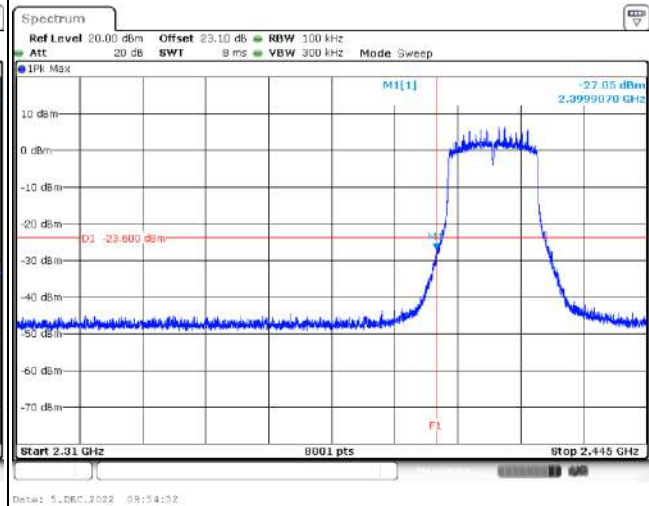
Test Mode : 802.11ax HE20

Test Channel : 01 Full RU

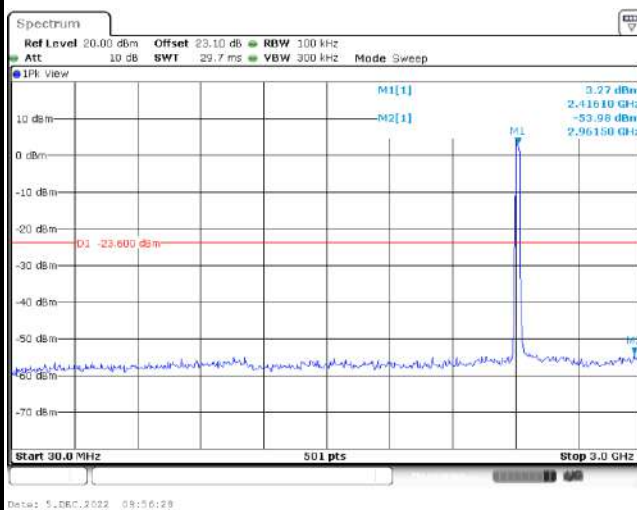
100kHz PSD reference Level



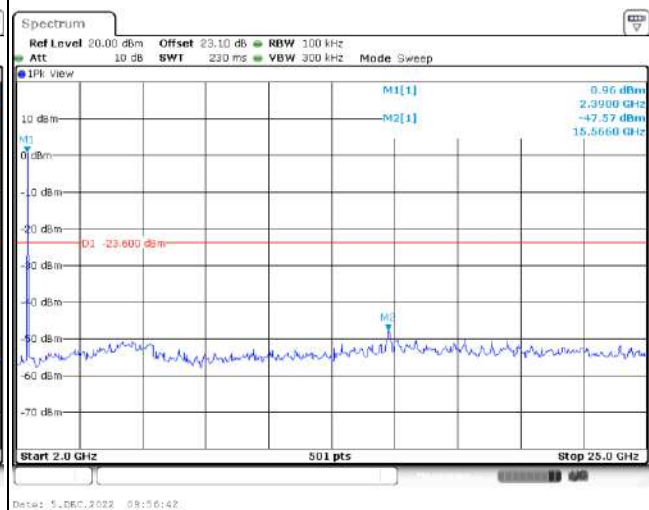
Channel Plot

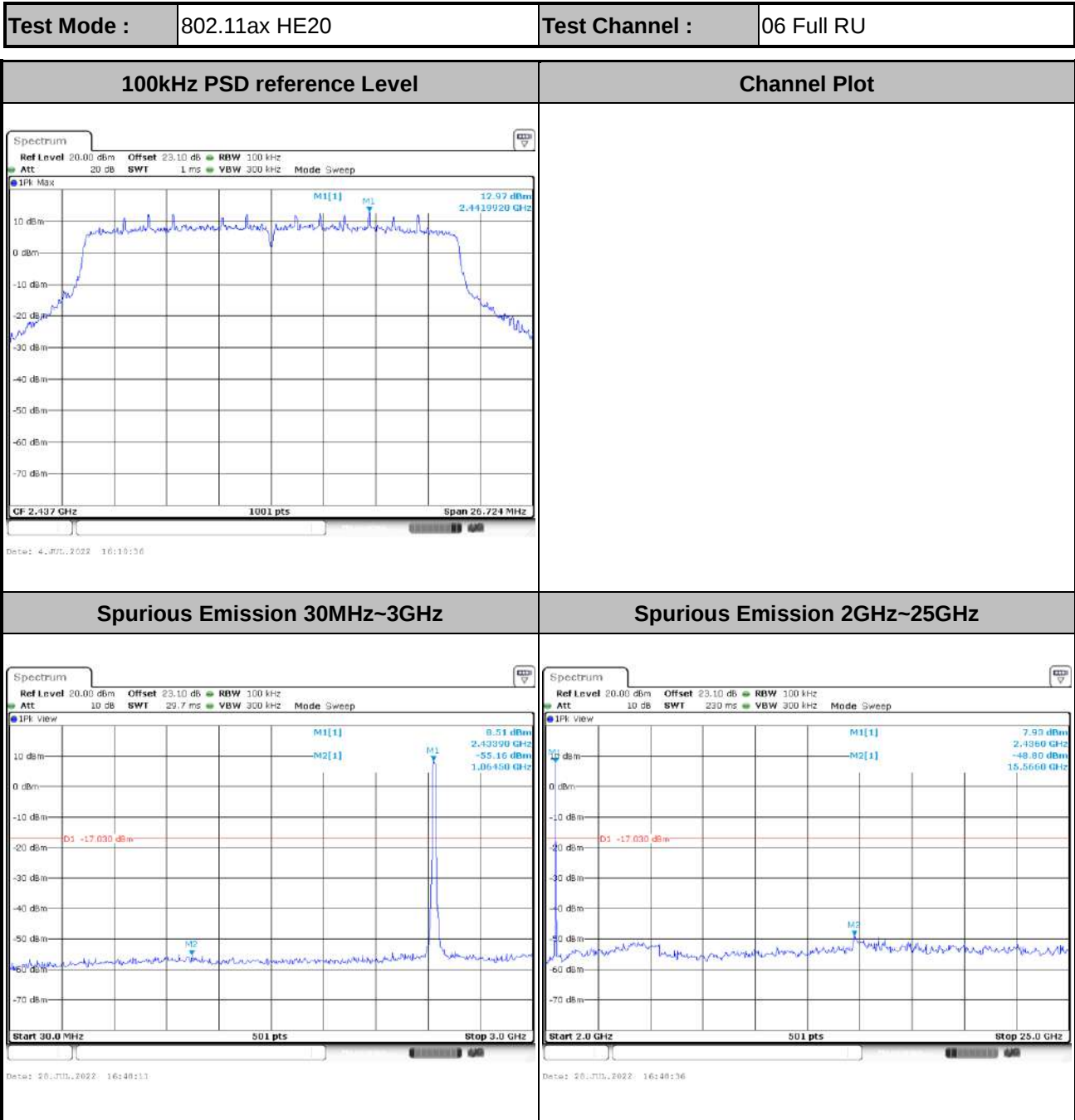


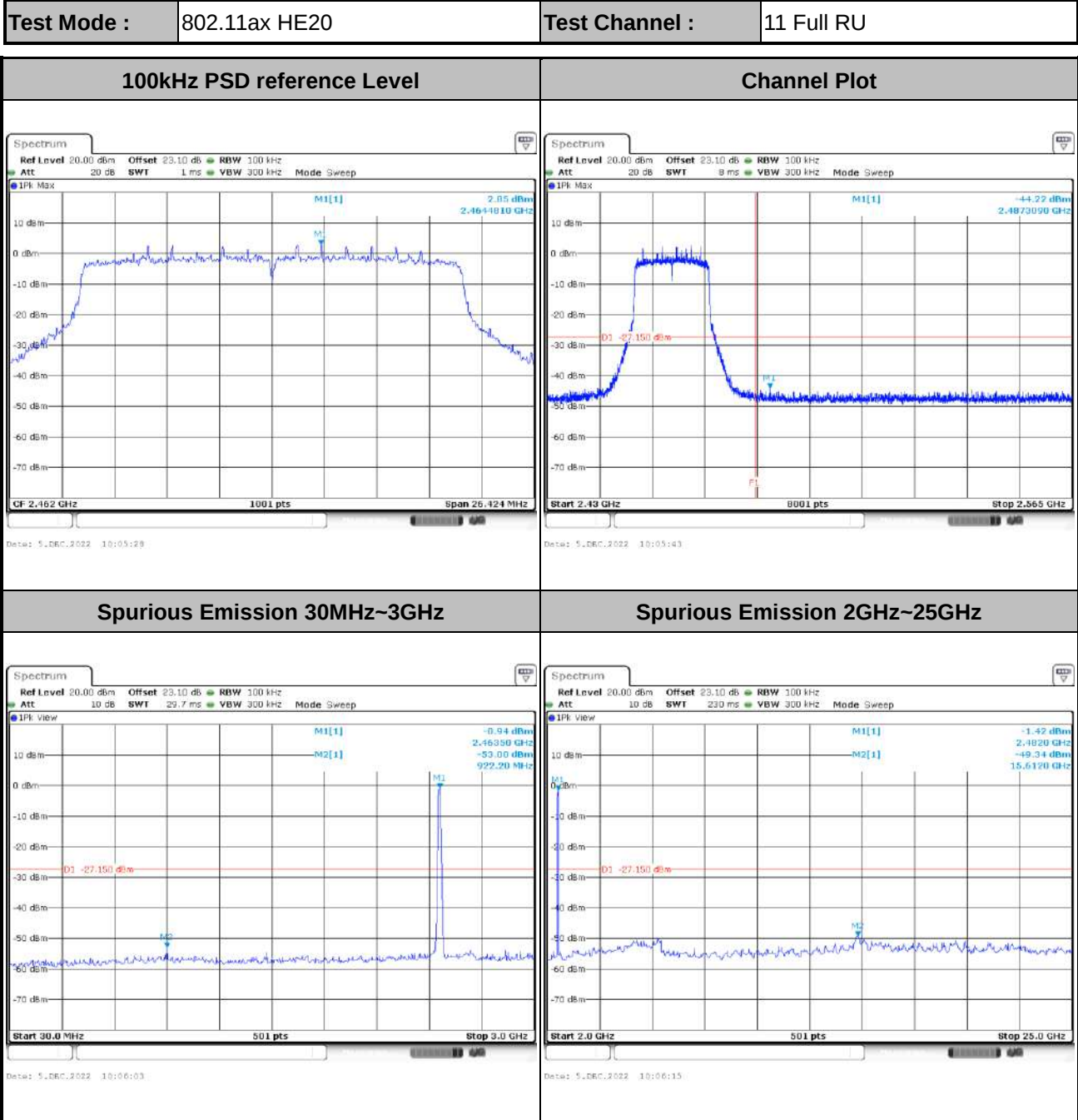
Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz





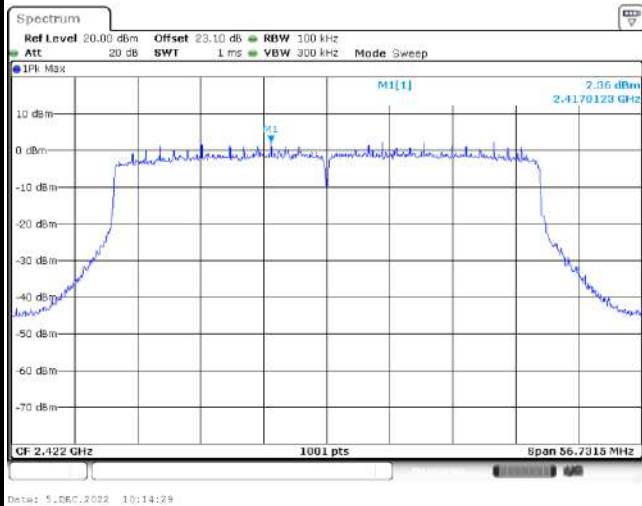




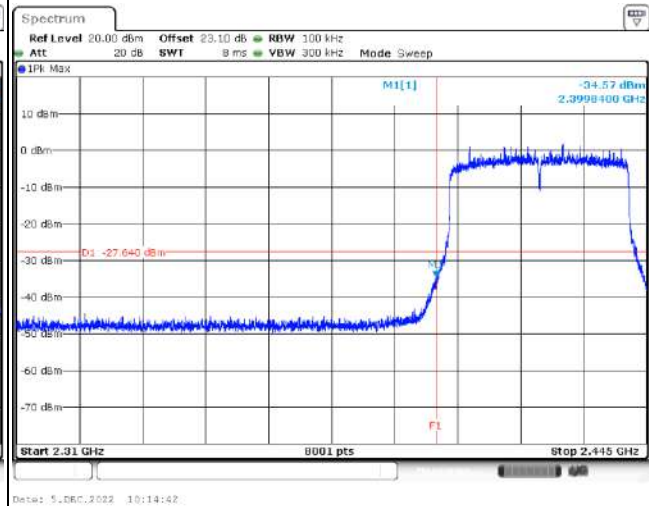
Test Mode : 802.11ax HE40

Test Channel : 03 Full RU

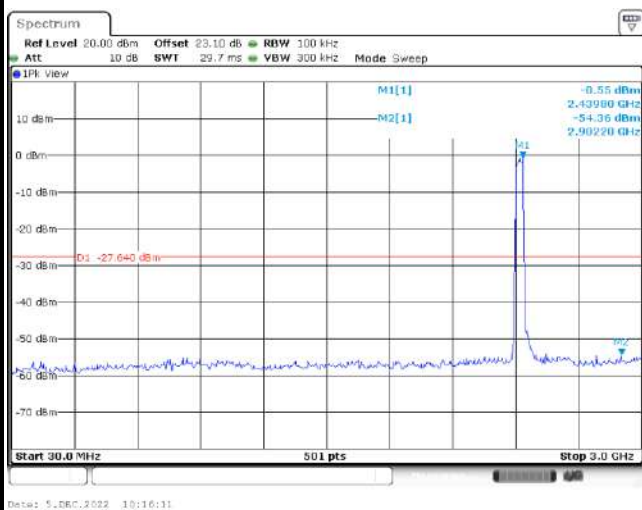
100kHz PSD reference Level



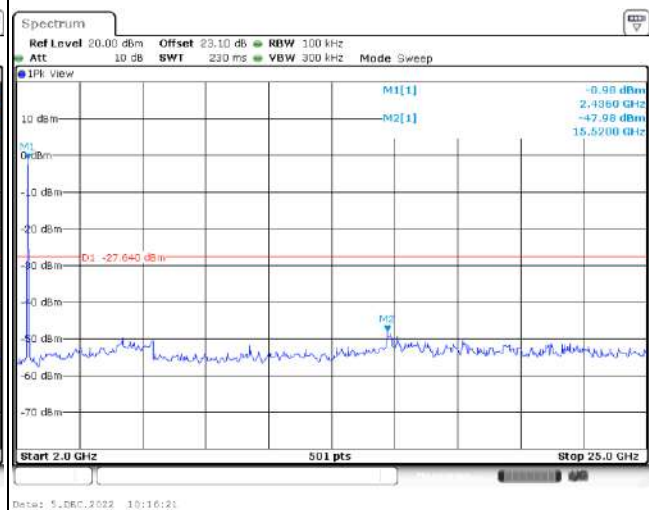
Channel Plot

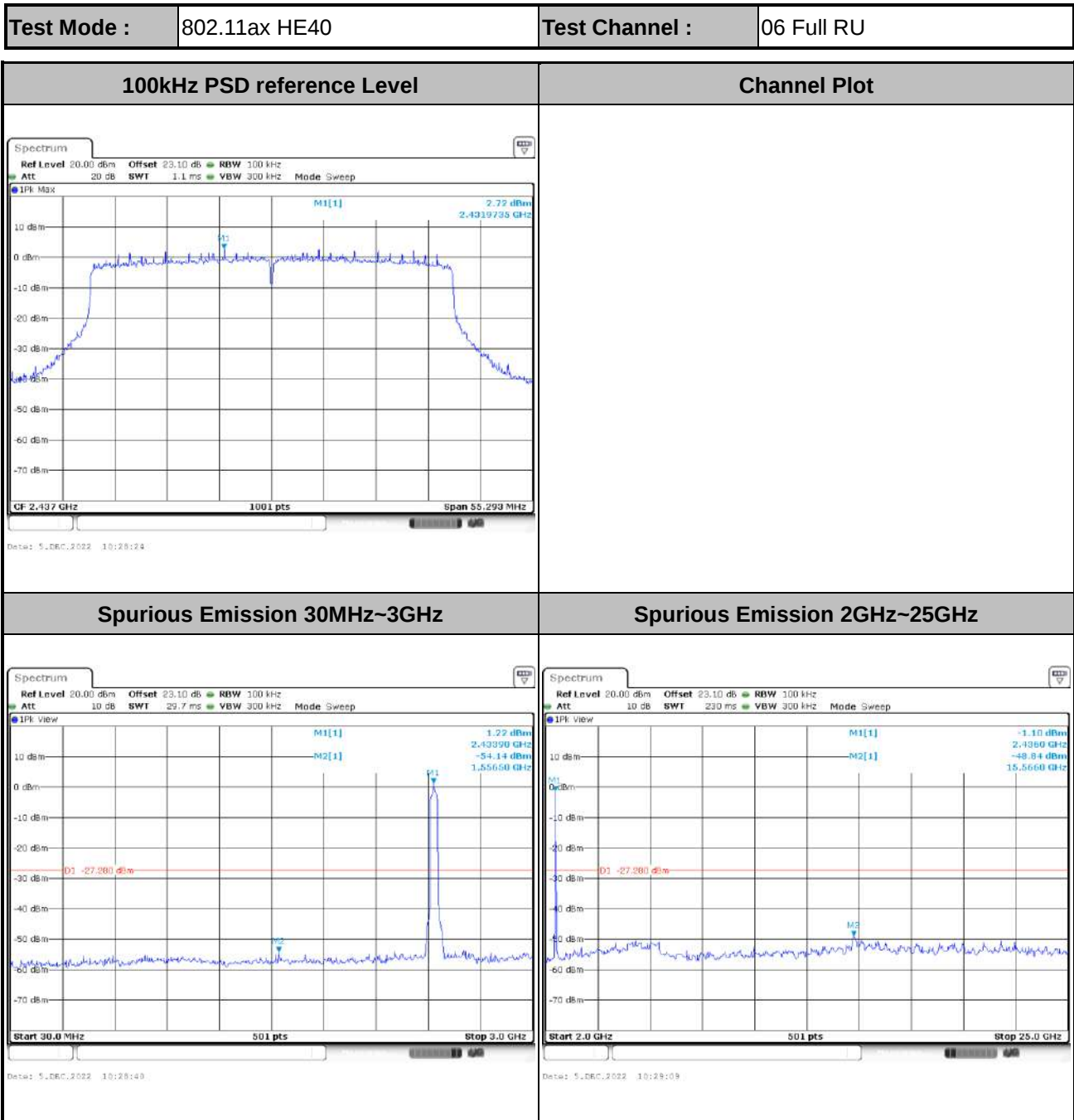


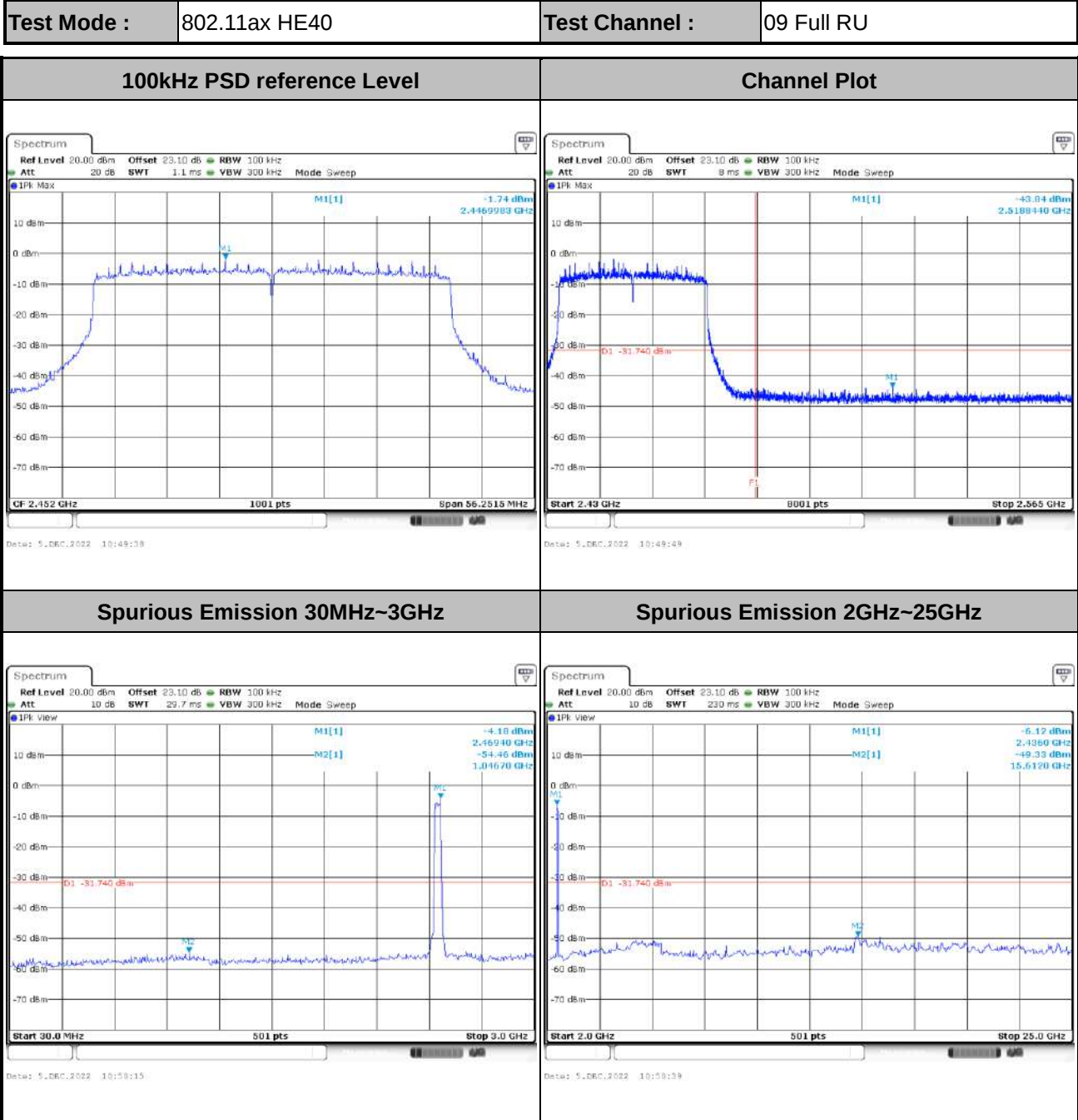
Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz









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 “-”.

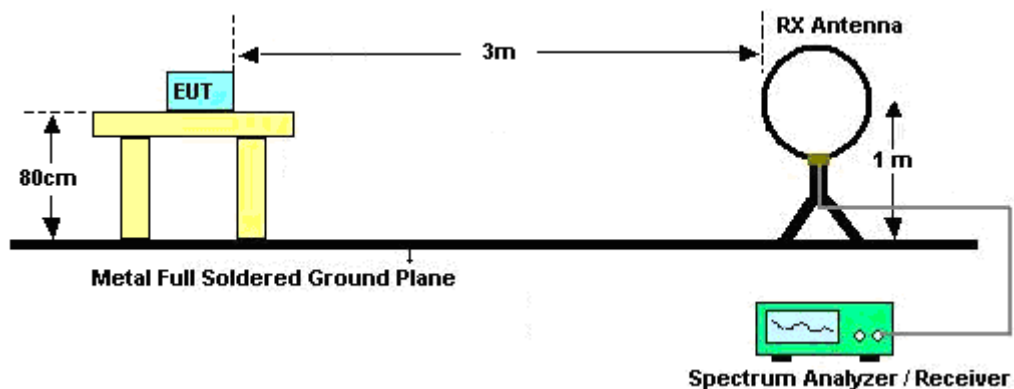
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with 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:

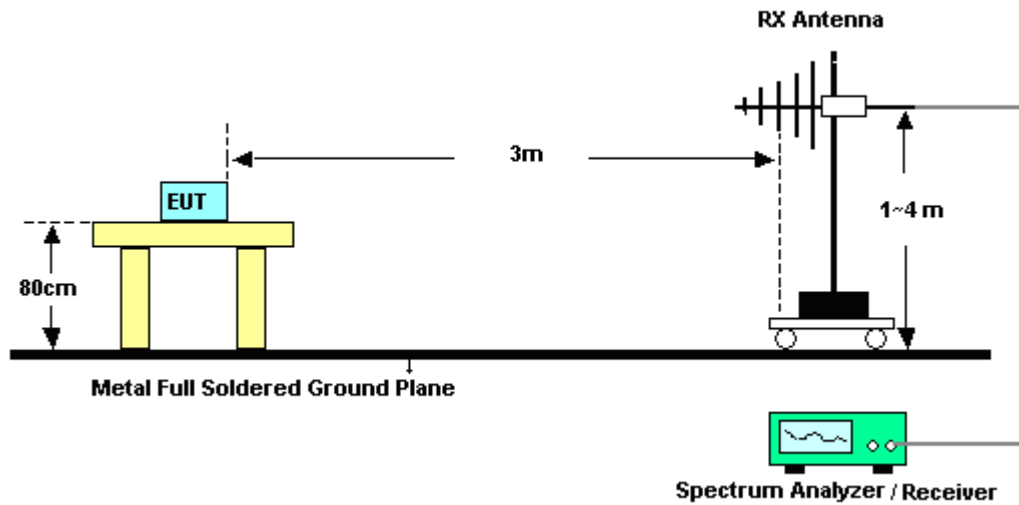
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

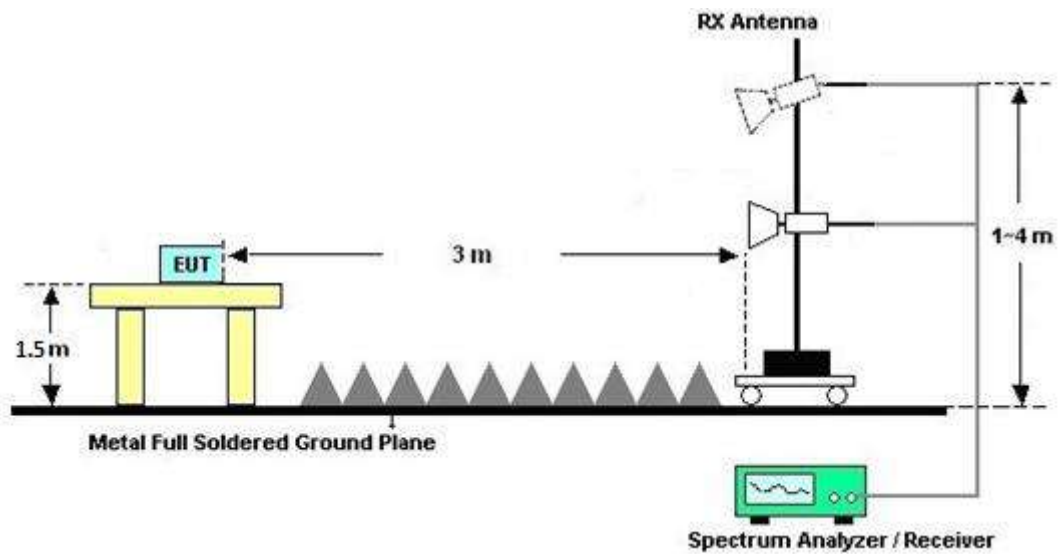
For radiated emissions below 30MHz



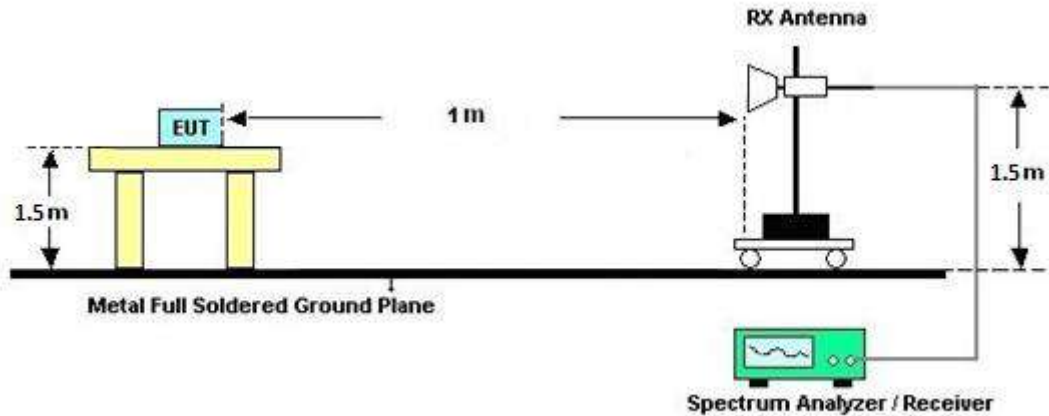
For radiated emissions from 30MHz to 1GHz



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 (dB μ V)	
	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.

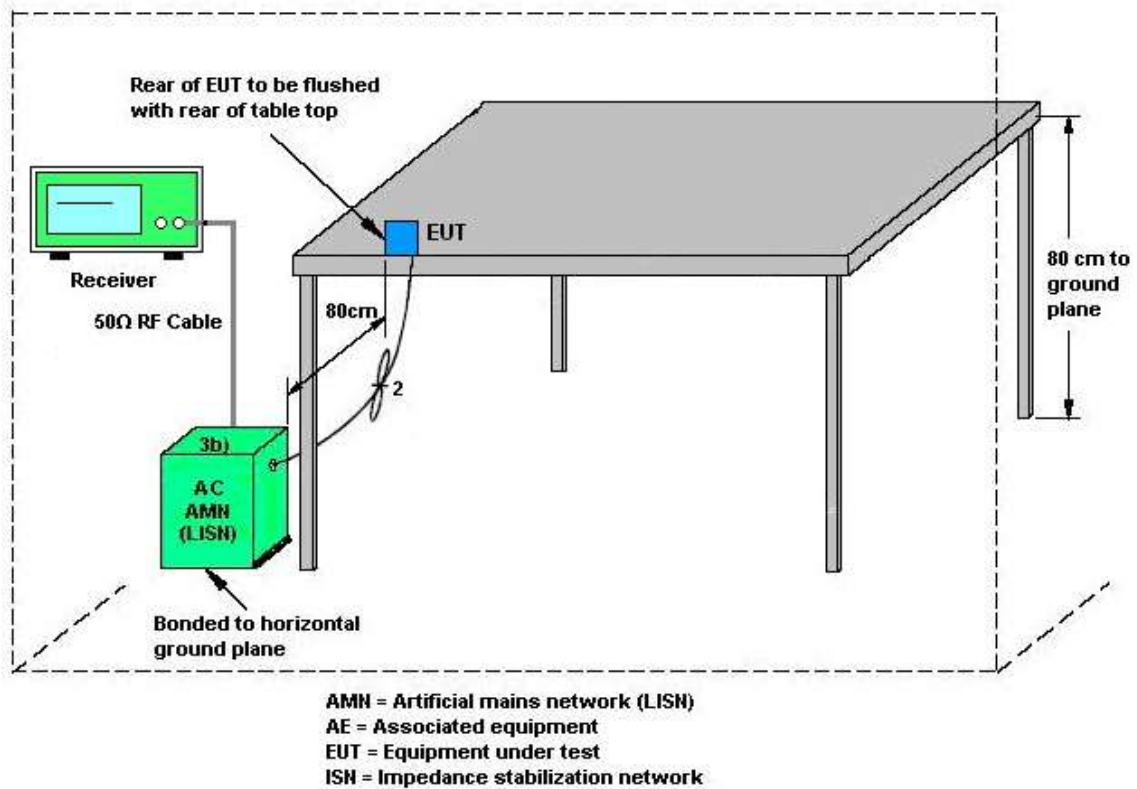
3.6.2 Measuring Instruments

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
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	Nov. 15, 2022~ Nov. 29, 2022	Sep. 19, 2023	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N -06	47020 & 06	30MHz~1GHz	Oct. 08, 2022	Nov. 15, 2022~ Nov. 29, 2022	Oct. 07, 2023	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1522	1GHz~18GHz	Mar. 10, 2022	Nov. 15, 2022~ Nov. 29, 2022	Mar. 09, 2023	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	00991	18GHz~40GHz	May 14, 2021	Nov. 15, 2022~ Nov. 29, 2022	May 13, 2023	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Dec. 15, 2021	Nov. 15, 2022~ Nov. 29, 2022	Dec. 14, 2022	Radiation (03CH16-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz~44GHz	Mar. 07, 2022	Nov. 15, 2022~ Nov. 29, 2022	Mar. 06, 2023	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	805935/4	N/A	Aug. 09, 2022	Nov. 15, 2022~ Nov. 29, 2022	Aug. 08, 2023	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	802434/4	N/A	Aug. 09, 2022	Nov. 15, 2022~ Nov. 29, 2022	Aug. 08, 2023	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300-5 757	N/A	Aug. 09, 2022	Nov. 15, 2022~ Nov. 29, 2022	Aug. 08, 2023	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1GHz	Jul. 04, 2022	Nov. 15, 2022~ Nov. 29, 2022	Jul. 03, 2023	Radiation (03CH16-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Dec. 27, 2021	Nov. 15, 2022~ Nov. 29, 2022	Dec. 26, 2022	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 09, 2021	Nov. 15, 2022~ Nov. 29, 2022	Dec. 08, 2022	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 28, 2022	Nov. 15, 2022~ Nov. 29, 2022	Jun. 27, 2023	Radiation (03CH16-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Nov. 15, 2022~ Nov. 29, 2022	N/A	Radiation (03CH16-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Nov. 15, 2022~ Nov. 29, 2022	N/A	Radiation (03CH16-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Nov. 15, 2022~ Nov. 29, 2022	N/A	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Nov. 15, 2022~ Nov. 29, 2022	N/A	Radiation (03CH16-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jul. 28, 2022	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 01, 2021	Jul. 28, 2022	Nov. 30, 2022	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 17, 2021	Jul. 28, 2022	Nov. 16, 2022	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 03, 2021	Jul. 28, 2022	Dec. 02, 2022	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Jul. 28, 2022	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBE CK	VTSD 9561-F N	00373	N/A	Oct. 29, 2021	Jul. 28, 2022	Oct. 28, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 30, 2021	Jul. 28, 2022	Dec. 29, 2022	Conduction (CO05-HY)
Hygrometer	TECPEL	DTM-303A	TP200735	N/A	Mar. 04, 2022	Jul. 04, 2022~ Dec. 06, 2022	Mar. 03, 2023	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	15I00041SNO 09 (NO:128)	10MHz~6GHz	Jan. 13, 2022	Jul. 04, 2022~ Dec. 06, 2022	Jan. 12, 2023	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101565	10Hz~40GHz	Dec. 29, 2021	Jul. 04, 2022~ Dec. 06, 2022	Dec. 28, 2022	Conducted (TH05-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
--	--------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.5 dB
--	--------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.6 dB
--	--------

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5 dB
--	--------

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.6 dB
--	--------

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Sylvia Li	Temperature:	21~25	°C
Test Date:	2022/07/04~2022/12/06	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band MIMO										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant1	Ant2	Ant1	Ant2		
11b	1Mbps	2	1	2412	13.39	13.29	8.10	8.08	0.50	Pass
11b	1Mbps	2	6	2437	13.39	13.29	8.10	8.08	0.50	Pass
11b	1Mbps	2	11	2462	13.19	13.34	7.09	7.60	0.50	Pass
11g	6Mbps	2	1	2412	17.08	17.03	16.07	15.73	0.50	Pass
11g	6Mbps	2	6	2437	17.03	17.13	15.67	16.31	0.50	Pass
11g	6Mbps	2	11	2462	17.03	17.13	16.09	16.05	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO																
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	2	1	2412	21.20	22.60	24.97	30.00		2.44		27.41		36.00		Pass
11b	1Mbps	2	6	2437	21.80	22.70	25.28	30.00		2.44		27.72		36.00		Pass
11b	1Mbps	2	11	2462	19.50	19.10	22.31	30.00		2.44		24.75		36.00		Pass
11g	6Mbps	2	1	2412	20.30	21.90	24.18	30.00		2.44		26.62		36.00		Pass
11g	6Mbps	2	6	2437	21.70	22.60	25.18	30.00		2.44		27.62		36.00		Pass
11g	6Mbps	2	11	2462	14.80	15.10	17.96	30.00		2.44		20.40		36.00		Pass
HT20	MCS0	2	1	2412	17.40	17.70	20.56	30.00		2.44		23.00		36.00		Pass
HT20	MCS0	2	6	2437	21.30	22.30	24.84	30.00		2.44		27.28		36.00		Pass
HT20	MCS0	2	11	2462	13.30	13.80	16.57	30.00		2.44		19.01		36.00		Pass
HT40	MCS0	2	3	2422	15.80	16.20	19.01	30.00		2.44		21.45		36.00		Pass
HT40	MCS0	2	6	2437	16.60	16.30	19.46	30.00		2.44		21.90		36.00		Pass
HT40	MCS0	2	9	2452	11.80	12.30	15.07	30.00		2.44		17.51		36.00		Pass
VHT20	MCS0	2	1	2412	17.50	17.80	20.66	30.00		2.44		23.10		36.00		Pass
VHT20	MCS0	2	6	2437	21.40	22.40	24.94	30.00		2.44		27.38		36.00		Pass
VHT20	MCS0	2	11	2462	13.40	13.90	16.67	30.00		2.44		19.11		36.00		Pass
VHT40	MCS0	2	3	2422	15.90	16.30	19.11	30.00		2.44		21.55		36.00		Pass
VHT40	MCS0	2	6	2437	16.70	16.40	19.56	30.00		2.44		22.00		36.00		Pass
VHT40	MCS0	2	9	2452	11.90	12.40	15.17	30.00		2.44		17.61		36.00		Pass

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band MIMO												
Mod.	Data Rate	NTX	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	2	1	2412	-0.14	0.62	3.63	5.45		8.00		Pass
11b	1Mbps	2	6	2437	0.45	1.21	4.22	5.45		8.00		Pass
11b	1Mbps	2	11	2462	-2.88	-2.72	0.29	5.45		8.00		Pass
11g	6Mbps	2	1	2412	-6.56	-4.78	-1.77	5.45		8.00		Pass
11g	6Mbps	2	6	2437	-5.04	-4.16	-1.15	5.45		8.00		Pass
11g	6Mbps	2	11	2462	-12.69	-13.61	-9.68	5.45		8.00		Pass

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

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band MIMO											
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
						Ant1	Ant2	Ant1	Ant2		
HE20	MCS0	2	1	2412	Full	19.33	19.33	17.97	17.82	0.50	Pass
HE20	MCS0	2	6	2437	Full	19.33	19.38	18.47	17.82	0.50	Pass
HE20	MCS0	2	11	2462	Full	19.33	19.38	18.34	17.62	0.50	Pass
HE40	MCS0	2	3	2422	Full	37.86	37.96	37.74	37.82	0.50	Pass
HE40	MCS0	2	6	2437	Full	37.96	37.96	37.86	36.86	0.50	Pass
HE40	MCS0	2	9	2452	Full	37.86	37.96	37.42	37.50	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO																	
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	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	
HE20	MCS0	2	1	2412	Full	17.60	17.90	20.76	30.00		2.44		23.20		36.00		Pass
HE20	MCS0	2	6	2437	Full	21.50	22.50	25.04	30.00		2.44		27.48		36.00		Pass
HE20	MCS0	2	11	2462	Full	13.50	14.00	16.77	30.00		2.44		19.21		36.00		Pass
HE40	MCS0	2	3	2422	Full	16.00	16.40	19.21	30.00		2.44		21.65		36.00		Pass
HE40	MCS0	2	6	2437	Full	16.80	16.50	19.66	30.00		2.44		22.10		36.00		Pass
HE40	MCS0	2	9	2452	Full	12.00	12.50	15.27	30.00		2.44		17.71		36.00		Pass

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band MIMO													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
						Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	2	1	2412	Full	-8.81	-8.59	-5.58	5.45		8.00		Pass
HE20	MCS0	2	6	2437	Full	-4.58	-3.64	-0.63	5.45		8.00		Pass
HE20	MCS0	2	11	2462	Full	-12.69	-12.31	-9.30	5.45		8.00		Pass
HE40	MCS0	2	3	2422	Full	-13.40	-13.29	-10.28	5.45		8.00		Pass
HE40	MCS0	2	6	2437	Full	-12.61	-12.57	-9.56	5.45		8.00		Pass
HE40	MCS0	2	9	2452	Full	-18.28	-17.75	-14.74	5.45		8.00		Pass

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



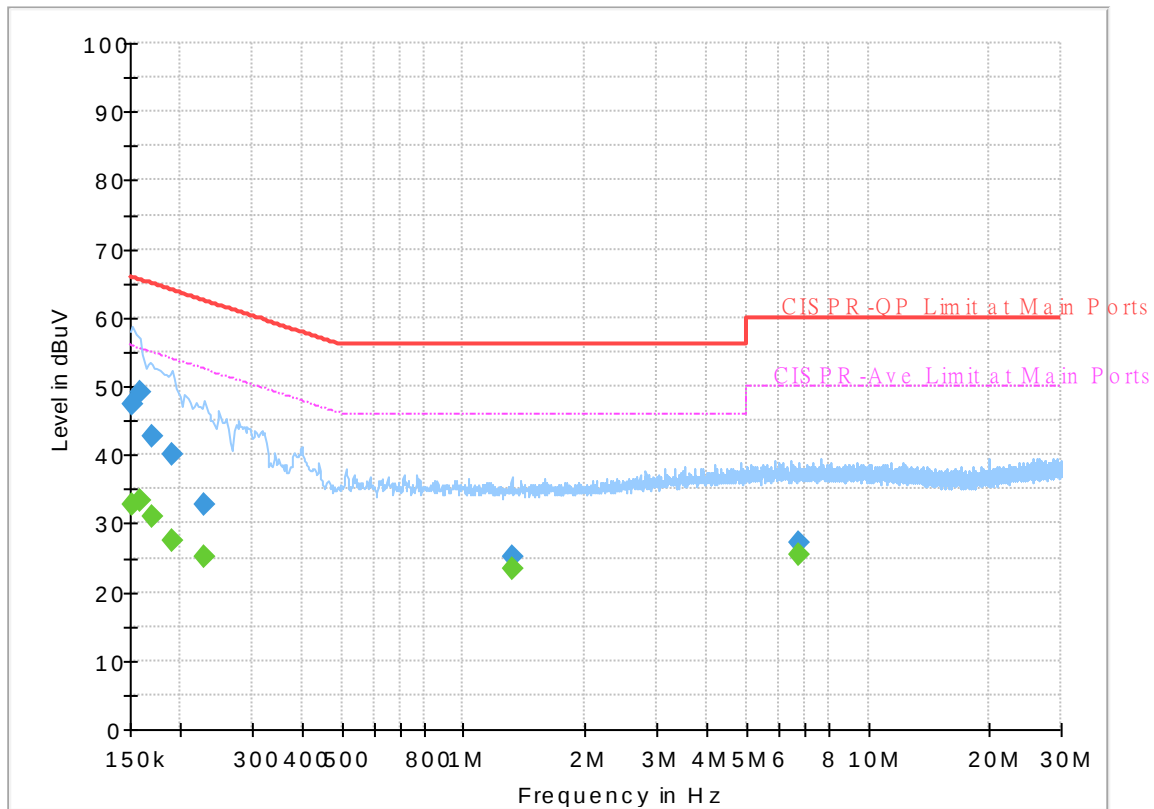
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	Temperature :	23~26°C
		Relative Humidity :	45~55%

EUT Information

Report NO : 260702
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



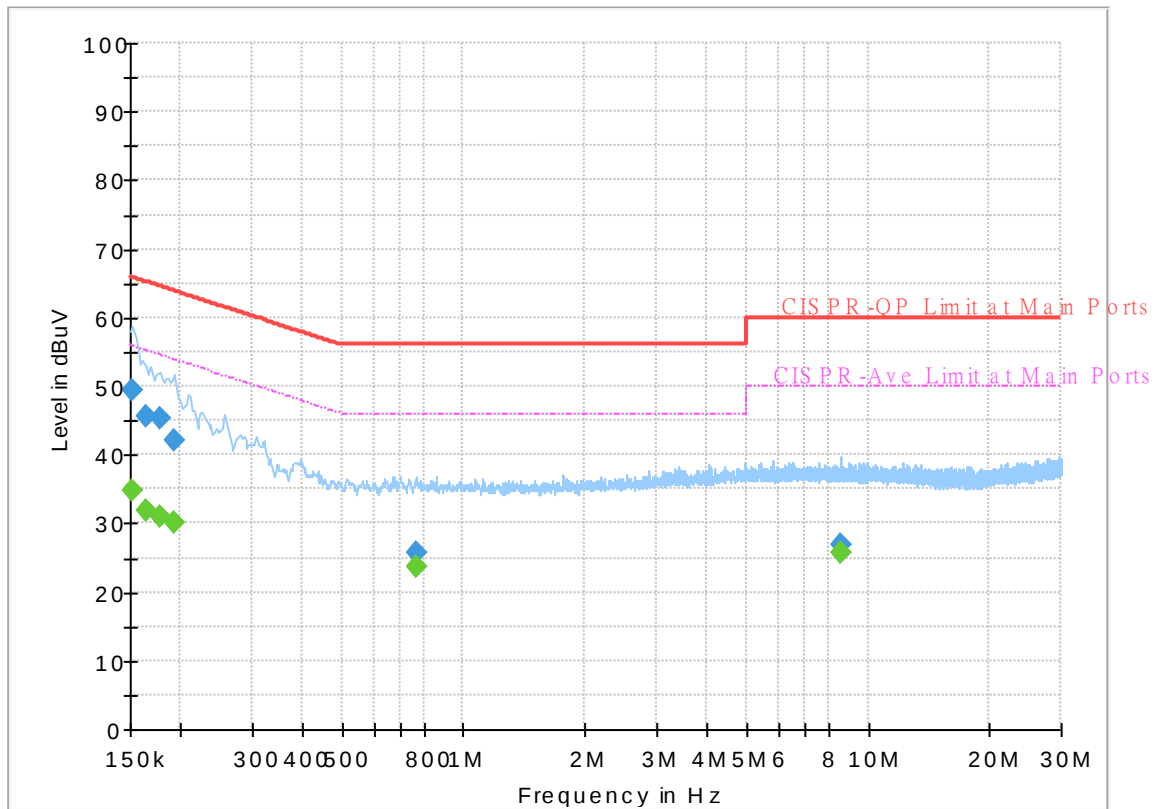
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	32.83	55.88	23.05	L1	OFF	19.7
0.152250	47.34	---	65.88	18.54	L1	OFF	19.7
0.159000	---	33.41	55.52	22.11	L1	OFF	19.7
0.159000	49.02	---	65.52	16.50	L1	OFF	19.7
0.170250	---	30.91	54.95	24.04	L1	OFF	19.7
0.170250	42.65	---	64.95	22.30	L1	OFF	19.7
0.190500	---	27.61	54.02	26.41	L1	OFF	19.7
0.190500	40.07	---	64.02	23.95	L1	OFF	19.7
0.228750	---	25.20	52.50	27.30	L1	OFF	19.7
0.228750	32.83	---	62.50	29.67	L1	OFF	19.7
1.315500	---	23.45	46.00	22.55	L1	OFF	19.8
1.315500	25.03	---	56.00	30.97	L1	OFF	19.8
6.715500	---	25.58	50.00	24.42	L1	OFF	20.0
6.715500	27.12	---	60.00	32.88	L1	OFF	20.0

EUT Information

Report NO : 260702
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	34.92	55.88	20.96	N	OFF	19.7
0.152250	49.44	---	65.88	16.44	N	OFF	19.7
0.163500	---	31.90	55.28	23.38	N	OFF	19.7
0.163500	45.49	---	65.28	19.79	N	OFF	19.7
0.177000	---	30.93	54.63	23.70	N	OFF	19.7
0.177000	45.22	---	64.63	19.41	N	OFF	19.7
0.192750	---	30.12	53.92	23.80	N	OFF	19.7
0.192750	42.13	---	63.92	21.79	N	OFF	19.7
0.762000	---	23.81	46.00	22.19	N	OFF	19.7
0.762000	25.87	---	56.00	30.13	N	OFF	19.7
8.589750	---	25.65	50.00	24.35	N	OFF	20.1
8.589750	27.01	---	60.00	32.99	N	OFF	20.1



Appendix C. Radiated Spurious Emission

Test Engineer :	Andy Yang and Karl Hou	Temperature :	18~23°C
		Relative Humidity :	50~65%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2342.97	55.87	-18.13	74	41.5	27.2	17.26	30.09	108	28	P	H
		2388.015	44.84	-9.16	54	30.21	27.35	17.35	30.07	108	28	A	H
	*	2412	110.31	-	-	95.51	27.47	17.4	30.07	108	28	P	H
	*	2412	107.09	-	-	92.29	27.47	17.4	30.07	108	28	A	H
													H
													H
		2387.49	55.8	-18.2	74	41.17	27.35	17.35	30.07	200	342	P	V
		2386.02	46.94	-7.06	54	32.32	27.34	17.35	30.07	200	342	A	V
	*	2412	121.88	-	-	107.08	27.47	17.4	30.07	200	342	P	V
	*	2412	118.76	-	-	103.96	27.47	17.4	30.07	200	342	A	V
													V
													V
802.11b CH 06 2437MHz		2376.64	56	-18	74	41.44	27.31	17.33	30.08	100	28	P	H
		2381.68	44.84	-9.16	54	30.25	27.33	17.34	30.08	100	28	A	H
	*	2437	110.49	-	-	95.49	27.62	17.44	30.06	100	28	P	H
	*	2437	107.35	-	-	92.35	27.62	17.44	30.06	100	28	A	H
		2489.43	56.09	-17.91	74	40.76	27.86	17.51	30.04	100	28	P	H
		2485.58	46.43	-7.57	54	31.12	27.84	17.51	30.04	100	28	A	H
		2370.48	54.89	-19.11	74	40.37	27.28	17.32	30.08	213	343	P	V
		2388.26	46.43	-7.57	54	31.79	27.35	17.36	30.07	213	343	A	V
	*	2437	122.22	-	-	107.22	27.62	17.44	30.06	213	343	P	V
	*	2437	119.1	-	-	104.1	27.62	17.44	30.06	213	343	A	V
		2493.07	57.27	-16.73	74	41.92	27.87	17.52	30.04	213	343	P	V
		2483.62	48.56	-5.44	54	33.26	27.83	17.51	30.04	213	343	A	V



802.11b CH 11 2462MHz	*	2462	106.65	-	-	91.48	27.75	17.47	30.05	100	28	P	H
	*	2462	103.63	-	-	88.46	27.75	17.47	30.05	100	28	A	H
		2483.52	56.08	-17.92	74	40.78	27.83	17.51	30.04	100	28	P	H
		2484.04	46.38	-7.62	54	31.07	27.84	17.51	30.04	100	28	A	H
													H
													H
	*	2462	119	-	-	103.83	27.75	17.47	30.05	224	342	P	V
	*	2462	115.9	-	-	100.73	27.75	17.47	30.05	224	342	A	V
		2491.24	58.65	-15.35	74	43.31	27.86	17.52	30.04	224	342	P	V
		2490.36	49.85	-4.15	54	34.51	27.86	17.52	30.04	224	342	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI 802.11b (Harmonic @ 3m)

[illegible]



WIFI Ant. 1+2	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	39.89	-34.11	74	61.96	32.7	11.35	66.12	-	-	P	H
		7311	44.59	-29.41	74	59.68	37.13	13.5	65.72	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4874	41.29	-32.71	74	63.36	32.7	11.35	66.12	-	-	P	V
		7311	44.52	-29.48	74	59.61	37.13	13.5	65.72	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

[illegible]



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

WIFI Ant. 1+2	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		2325.855	55.12	-18.88	74	40.79	27.2	17.22	30.09	194	84	P	H
		2389.8	45.07	-8.93	54	30.42	27.36	17.36	30.07	194	84	A	H
	*	2412	105.61	-	-	90.81	27.47	17.4	30.07	194	84	P	H
	*	2412	98.17	-	-	83.37	27.47	17.4	30.07	194	84	A	H
													H
													H
		2390	62.15	-11.85	74	47.5	27.36	17.36	30.07	230	0	P	V
		2390	52.53	-1.47	54	37.88	27.36	17.36	30.07	230	0	A	V
	*	2412	121.65	-	-	106.85	27.47	17.4	30.07	230	0	P	V
	*	2412	113.38	-	-	98.58	27.47	17.4	30.07	230	0	A	V
													V
													V
802.11g CH 06 2437MHz		2377.9	55.47	-18.53	74	40.91	27.31	17.33	30.08	152	29	P	H
		2388.68	44.46	-9.54	54	29.82	27.35	17.36	30.07	152	29	A	H
	*	2437	112.75	-	-	97.75	27.62	17.44	30.06	152	29	P	H
	*	2437	105.34	-	-	90.34	27.62	17.44	30.06	152	29	A	H
		2486.07	56.38	-17.62	74	41.07	27.84	17.51	30.04	152	29	P	H
		2484.39	45.68	-8.32	54	30.37	27.84	17.51	30.04	152	29	A	H
		2387.7	55.97	-18.03	74	41.34	27.35	17.35	30.07	202	346	P	V
		2389.8	45.5	-8.5	54	30.85	27.36	17.36	30.07	202	346	A	V
	*	2437	122.64	-	-	107.64	27.62	17.44	30.06	202	346	P	V
	*	2437	115.09	-	-	100.09	27.62	17.44	30.06	202	346	A	V
		2483.97	57.42	-16.58	74	42.11	27.84	17.51	30.04	202	346	P	V
		2483.9	47.77	-6.23	54	32.46	27.84	17.51	30.04	202	346	A	V



802.11g CH 11 2462MHz	*	2462	105.12	-	-	89.95	27.75	17.47	30.05	150	30	P	H
	*	2462	97.31	-	-	82.14	27.75	17.47	30.05	150	30	A	H
		2494.8	56.52	-17.48	74	41.16	27.88	17.52	30.04	150	30	P	H
		2483.6	46.22	-7.78	54	30.92	27.83	17.51	30.04	150	30	A	H
													H
													H
	*	2462	115.38	-	-	100.21	27.75	17.47	30.05	297	155	P	V
	*	2462	107.3	-	-	92.13	27.75	17.47	30.05	297	155	A	V
		2483.52	62.44	-11.56	74	47.14	27.83	17.51	30.04	297	155	P	V
		2483.52	51.51	-2.49	54	36.21	27.83	17.51	30.04	297	155	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)

TEL : 886-3-327-0868
FAX : 886-3-327-0855

[illegible]

[illegible]



2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 1+2	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)
802.11ax HE20 Full CH 01 2412MHz		2388.33	55.35	-18.65	74	40.71	27.35	17.36	30.07	143	30	P	H
		2390	45.19	-8.81	54	30.54	27.36	17.36	30.07	143	30	A	H
	*	2412	107.32	-	-	92.52	27.47	17.4	30.07	143	30	P	H
	*	2412	98.84	-	-	84.04	27.47	17.4	30.07	143	30	A	H
													H
													H
		2388.855	61.69	-12.31	74	47.04	27.36	17.36	30.07	203	357	P	V
		2389.905	52.49	-1.51	54	37.84	27.36	17.36	30.07	203	357	A	V
	*	2412	118.59	-	-	103.79	27.47	17.4	30.07	203	357	P	V
	*	2412	110.36	-	-	95.56	27.47	17.4	30.07	203	357	A	V
													V
													V
802.11ax HE20 Full CH 06 2437MHz		2385.18	55.87	-18.13	74	41.25	27.34	17.35	30.07	150	28	P	H
		2389.52	43.88	-10.12	54	29.23	27.36	17.36	30.07	150	28	A	H
	*	2437	114.46	-	-	99.46	27.62	17.44	30.06	150	28	P	H
	*	2437	105.46	-	-	90.46	27.62	17.44	30.06	150	28	A	H
		2486.14	56.24	-17.76	74	40.93	27.84	17.51	30.04	150	28	P	H
		2486.84	45.01	-8.99	54	29.69	27.85	17.51	30.04	150	28	A	H
		2389.94	55.76	-18.24	74	41.11	27.36	17.36	30.07	205	346	P	V
		2389.52	45.89	-8.11	54	31.24	27.36	17.36	30.07	205	346	A	V
	*	2437	123.77	-	-	108.77	27.62	17.44	30.06	205	346	P	V
	*	2437	115.09	-	-	100.09	27.62	17.44	30.06	205	346	A	V
		2485.72	58.73	-15.27	74	43.42	27.84	17.51	30.04	205	346	P	V
		2485.23	48.08	-5.92	54	32.77	27.84	17.51	30.04	205	346	A	V



WIFI Ant. 1+2	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)
802.11ax HE20 Full CH 11 2462MHz	*	2462	103.63	-	-	88.46	27.75	17.47	30.05	105	31	P	H
	*	2462	94.83	-	-	79.66	27.75	17.47	30.05	105	31	A	H
		2490	56.75	-17.25	74	41.41	27.86	17.52	30.04	105	31	P	H
		2483.6	46.29	-7.71	54	30.99	27.83	17.51	30.04	105	31	A	H
													H
													H
	*	2462	115.65	-	-	100.48	27.75	17.47	30.05	204	335	P	V
	*	2462	106.84	-	-	91.67	27.75	17.47	30.05	204	335	A	V
		2483.6	63.71	-10.29	74	48.41	27.83	17.51	30.04	204	335	P	V
		2483.56	52.85	-1.15	54	37.55	27.83	17.51	30.04	204	335	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI 802.11 ax HE20 Full (Harmonic @ 3m)

[illegible]

[illegible]

WIFI Ant. 1+2	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)
802.11ax HE20 Full CH 11 2462MHz		4924	39.94	-34.06	74	61.7	32.94	11.38	66.08	-	-	P	H
		7386	43.96	-30.04	74	59.57	36.76	13.39	65.76	-	-	P	H
													H
													H
													H
													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.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 1+2	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)
802.11ax HE40 Full CH 03 2422MHz		2385.18	54.8	-19.2	74	40.18	27.34	17.35	30.07	100	304	P	H
		2389.24	44.01	-9.99	54	29.36	27.36	17.36	30.07	100	304	A	H
	*	2422	100.22	-	-	85.34	27.53	17.41	30.06	100	304	P	H
	*	2422	91.51	-	-	76.63	27.53	17.41	30.06	100	304	A	H
		2499.23	55.69	-18.31	74	40.3	27.9	17.53	30.04	100	304	P	H
		2492.65	44.46	-9.54	54	29.11	27.87	17.52	30.04	100	304	A	H
		2389.94	62.62	-11.38	74	47.97	27.36	17.36	30.07	238	354	P	V
		2389.94	52.06	-1.94	54	37.41	27.36	17.36	30.07	238	354	A	V
	*	2422	115.03	-	-	100.15	27.53	17.41	30.06	238	354	P	V
	*	2422	105.03	-	-	90.15	27.53	17.41	30.06	238	354	A	V
		2490.06	57.48	-16.52	74	42.14	27.86	17.52	30.04	238	354	P	V
		2483.5	46.58	-7.42	54	31.28	27.83	17.51	30.04	238	354	A	V
802.11ax HE40 Full CH 06 2437MHz		2335.76	55.57	-18.43	74	41.21	27.2	17.25	30.09	150	311	P	H
		2389.52	43.77	-10.23	54	29.12	27.36	17.36	30.07	150	311	A	H
	*	2437	101.25	-	-	86.25	27.62	17.44	30.06	150	311	P	H
	*	2437	92	-	-	77	27.62	17.44	30.06	150	311	A	H
		2486.91	55.83	-18.17	74	40.51	27.85	17.51	30.04	150	311	P	H
		2484.32	44.75	-9.25	54	29.44	27.84	17.51	30.04	150	311	A	H
		2387.7	55.32	-18.68	74	40.69	27.35	17.35	30.07	255	174	P	V
		2389.94	46.31	-7.69	54	31.66	27.36	17.36	30.07	255	174	A	V
	*	2437	114.61	-	-	99.61	27.62	17.44	30.06	255	174	P	V
	*	2437	105.61	-	-	90.61	27.62	17.44	30.06	255	174	A	V
		2483.97	61.98	-12.02	74	46.67	27.84	17.51	30.04	255	174	P	V
		2483.55	52.16	-1.84	54	36.86	27.83	17.51	30.04	255	174	A	V



WIFI Ant. 1+2	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)
802.11ax HE40 Full CH 09 2452MHz		2387.28	55.41	-18.59	74	40.78	27.35	17.35	30.07	100	28	P	H
		2379.16	43.36	-10.64	54	28.78	27.32	17.34	30.08	100	28	A	H
	*	2452	99.45	-	-	84.33	27.71	17.46	30.05	100	28	P	H
	*	2452	90.12	-	-	75	27.71	17.46	30.05	100	28	A	H
		2484.25	57.23	-16.77	74	41.92	27.84	17.51	30.04	100	28	P	H
		2483.5	45.7	-8.3	54	30.4	27.83	17.51	30.04	100	28	A	H
		2324.7	55.57	-18.43	74	41.24	27.2	17.22	30.09	200	344	P	V
		2389.52	43.68	-10.32	54	29.03	27.36	17.36	30.07	200	344	A	V
	*	2452	111.43	-	-	96.31	27.71	17.46	30.05	200	344	P	V
	*	2452	101.48	-	-	86.36	27.71	17.46	30.05	200	344	A	V
		2484.25	61.87	-12.13	74	46.56	27.84	17.51	30.04	200	344	P	V
		2483.5	52.09	-1.91	54	36.79	27.83	17.51	30.04	200	344	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI 802.11 ax HE40 Full (Harmonic @ 3m)

[illegible]

[illegible]

[illegible]



2.4GHz WIFI 802.11ax HE20 (SHF)

TEL : 886-3-327-0868
FAX : 886-3-327-0855



2.4GHz WIFI 802.11ax HE20 (LF)

TEL : 886-3-327-0868
FAX : 886-3-327-0855



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 Margin 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+2		(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 :	Andy Yang and Karl Hou	Temperature :	18~23°C
		Relative Humidity :	50~65%

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+2	Horizontal	Fundamental
Peak	Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_220310 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto

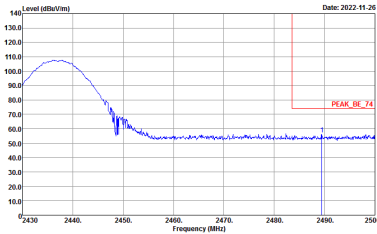
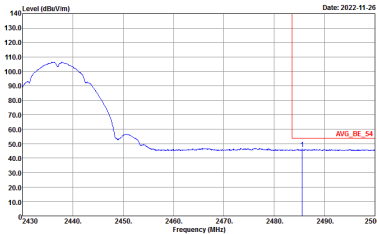


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto

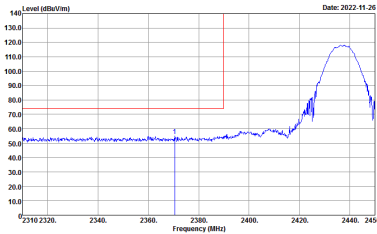
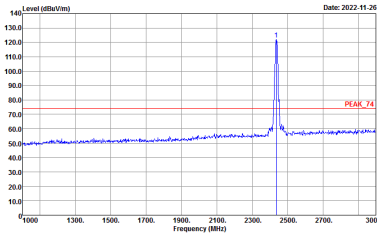
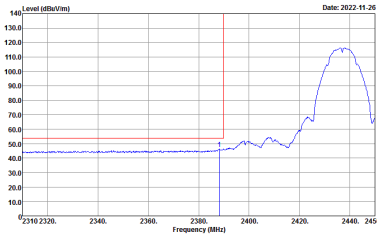
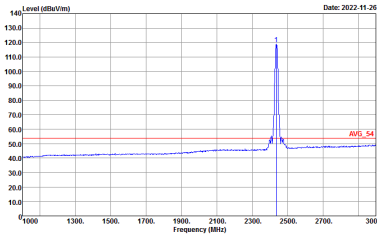


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	Site : 03CH16-HY Condition : : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH16-HY Condition : : PEAK_F4 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH16-HY Condition : : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH16-HY Condition : : AVG_F4 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

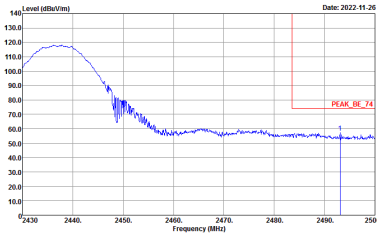
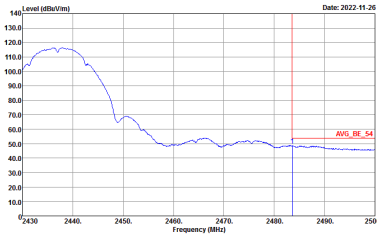


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH16-HY Condition : : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

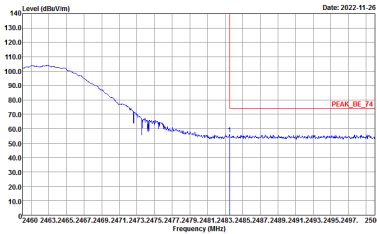
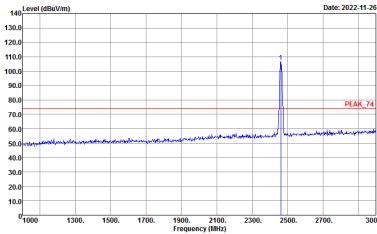
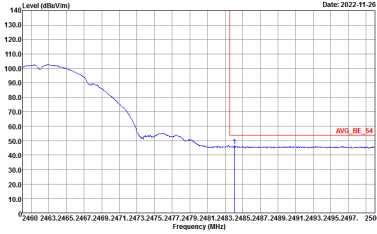
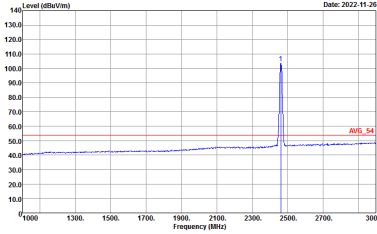


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.		

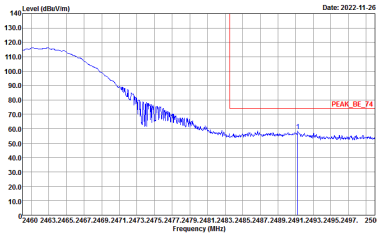
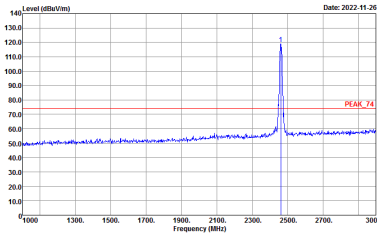
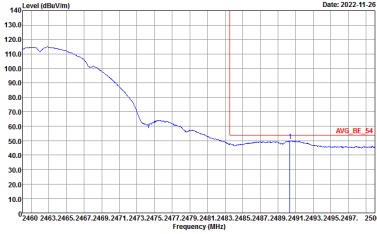
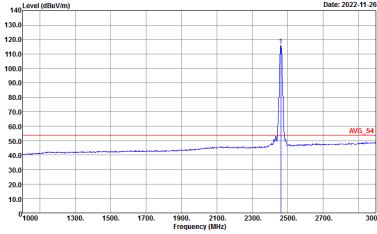


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : : PEAK_BE_74 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH16-HY Condition : : AVG_BE_54 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



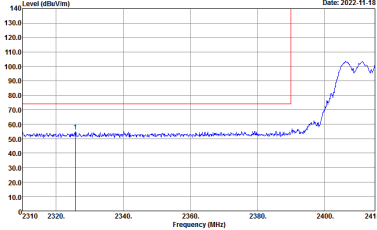
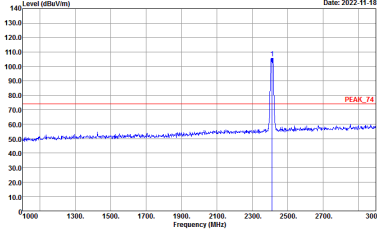
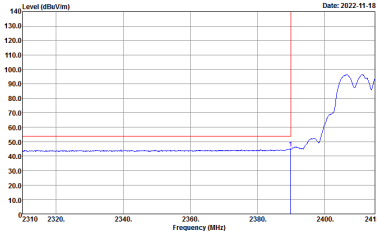
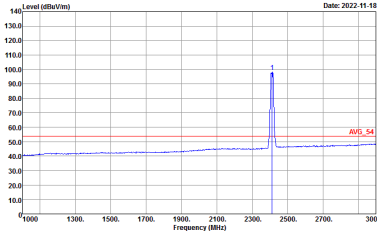
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : : PEAK_74 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	 Site : 03CH16-HY Condition : : AVG_54 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto



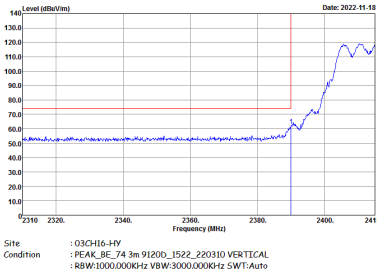
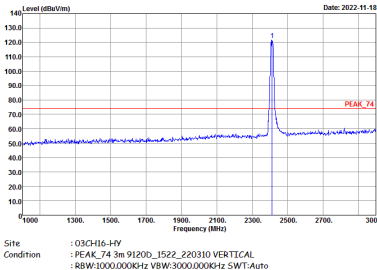
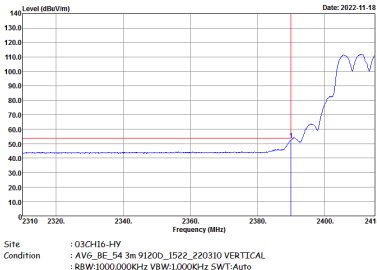
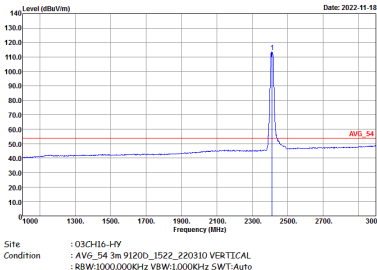
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



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

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_220310 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto

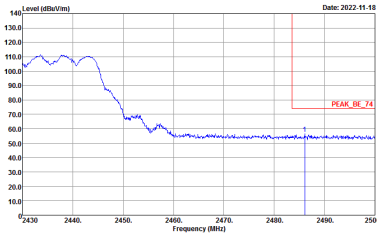
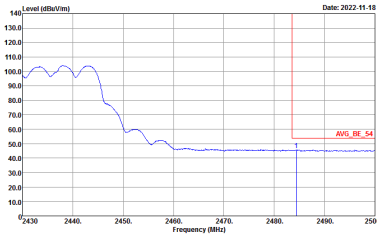


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : : PEAK_BE_74 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : : PEAK_74 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH16-HY Condition : : AVG_BE_54 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH16-HY Condition : : AVG_54 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto
Avg.		

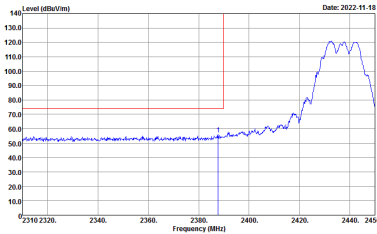
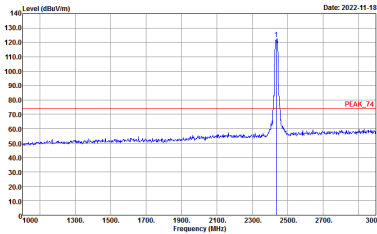
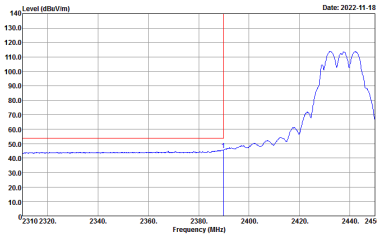
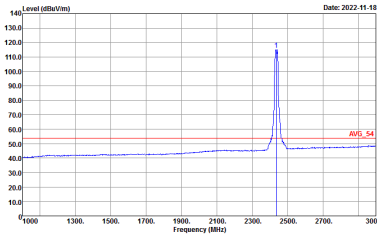


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

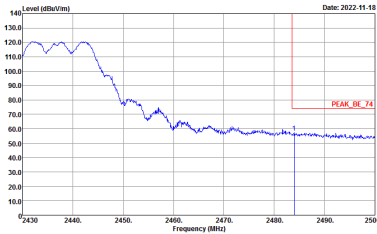
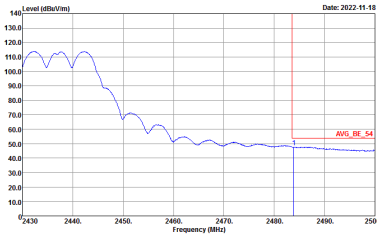


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH16-HY Condition : : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

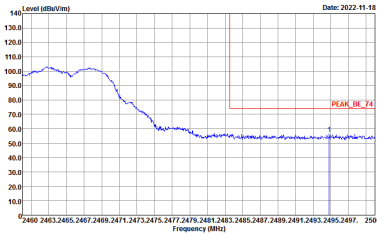
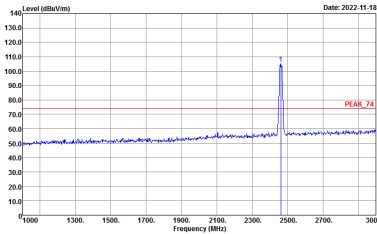
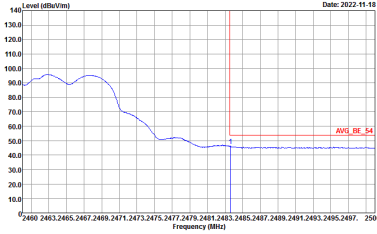
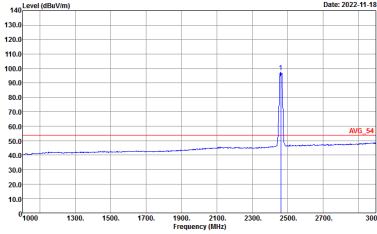


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : : PEAK_BE_74 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : : PEAK_74 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : : AVG_BE_54 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH16-HY Condition : : AVG_54 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

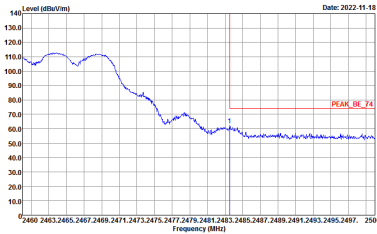
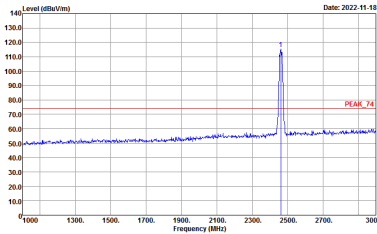
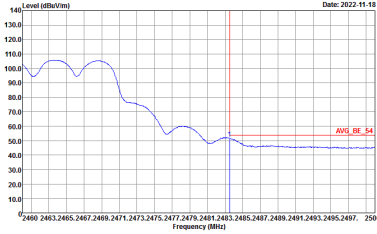
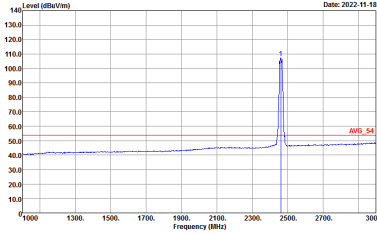


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : : PEAK_BE_74 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left Blank
Avg.	 Site : 03CH16-HY Condition : : AVG_BE_54 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left Blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : : PEAK_74 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH16-HY Condition : : AV6_BE_54 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH16-HY Condition : : AV6_54 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto

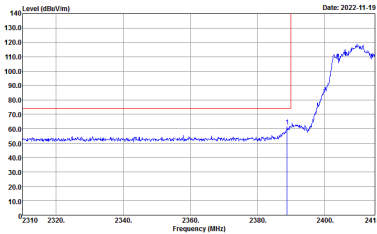
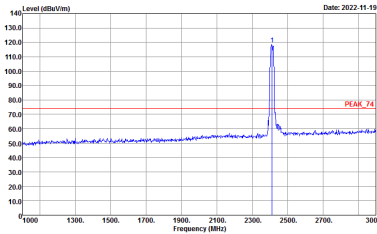
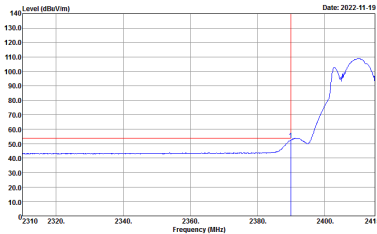
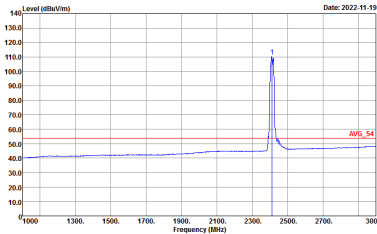


2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL RBW:1000.000kHz VBW:0.300kHz SWT:Auto	Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_220310 HORIZONTAL RBW:1000.000kHz VBW:0.300kHz SWT:Auto

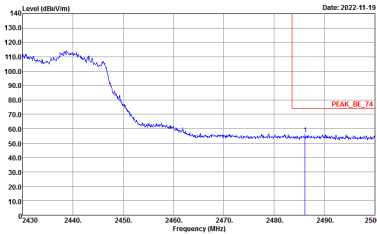
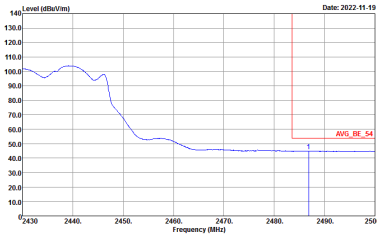


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.		

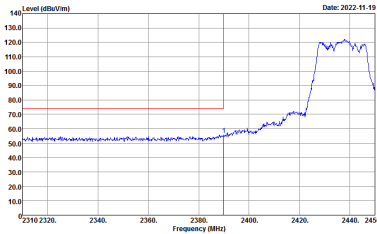
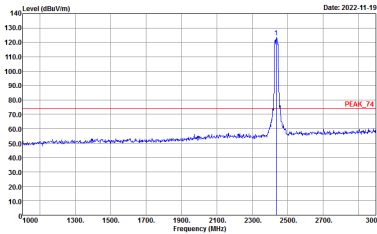
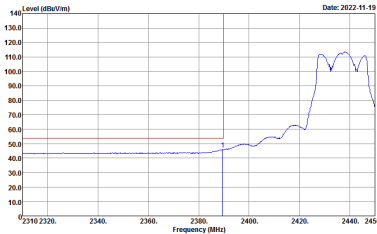
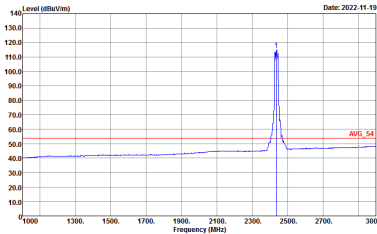


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_220310 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

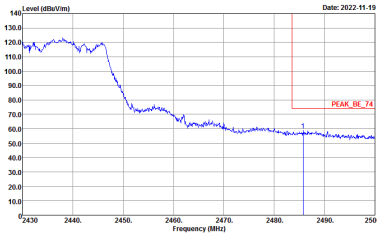
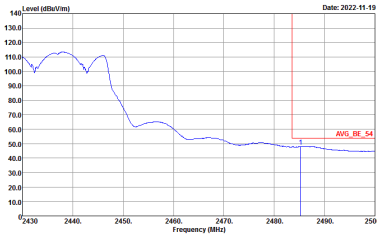


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH16-HY Condition : : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

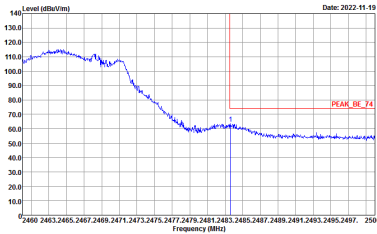
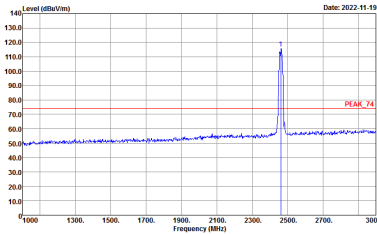
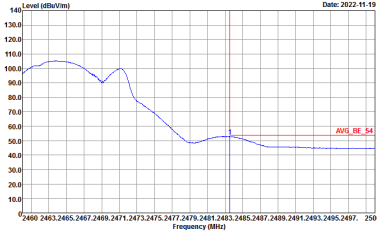
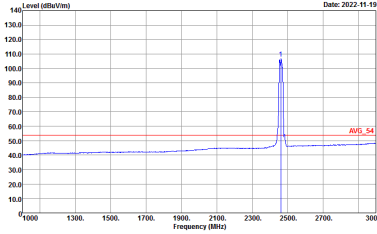


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : : PEAK_BE_74 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH16-HY Condition : : AVG_BE_54 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL RBW:1000.000KHz VBW:0.300KHz SWT:Auto	Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_220310 HORIZONTAL RBW:1000.000KHz VBW:0.300KHz SWT:Auto

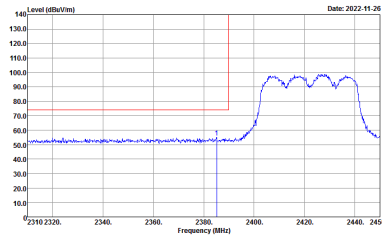
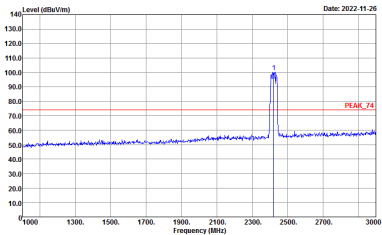
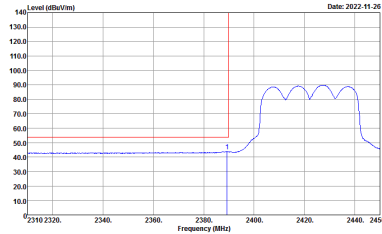
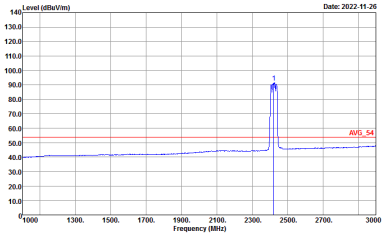


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : : PEAK_BE_74 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : : PEAK_74 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH16-HY Condition : : AV6_BE_54 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto	 Site : 03CH16-HY Condition : : AV6_54 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto
Avg.		

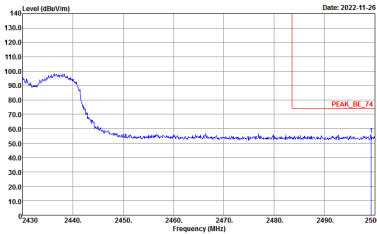
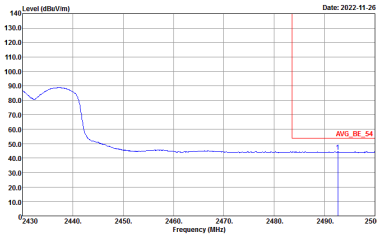


2.4GHz 2400~2483.5MHz

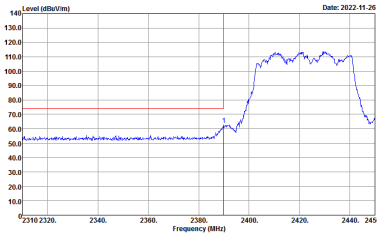
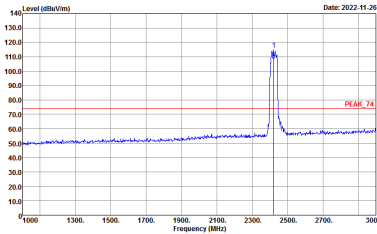
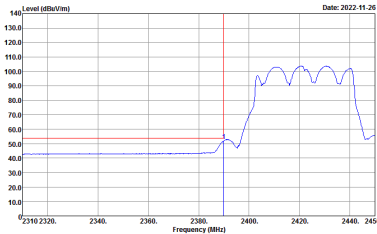
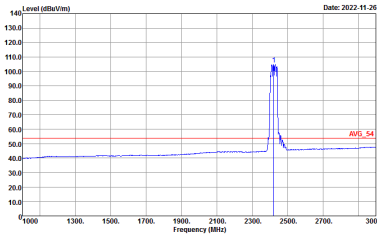
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 2422MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL RBW:1000.000kHz VBW:0.300kHz SWT:Auto	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_220310 HORIZONTAL RBW:1000.000kHz VBW:0.300kHz SWT:Auto

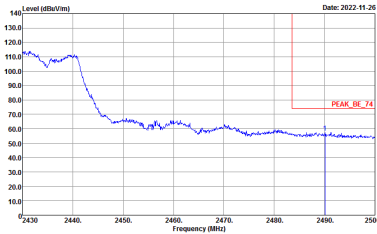
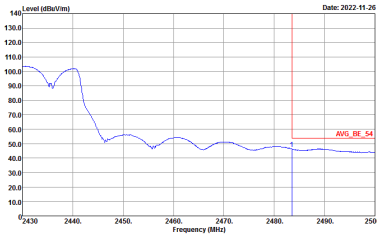


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 2422MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

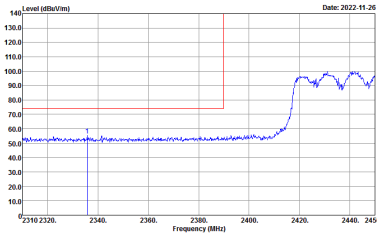
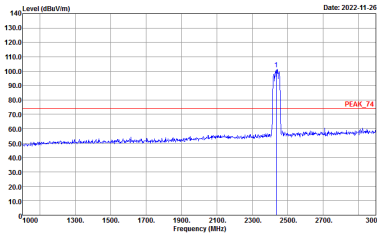
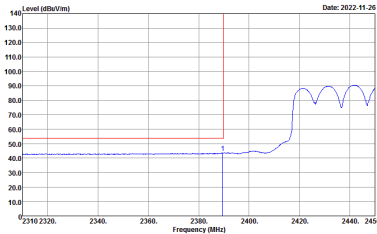
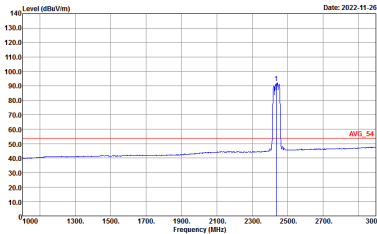


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 2422MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.		

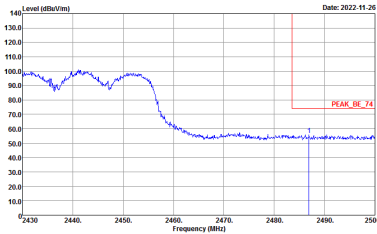
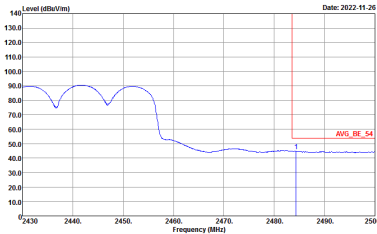


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 2422MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

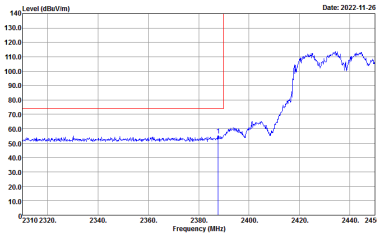
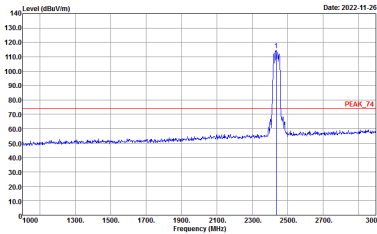
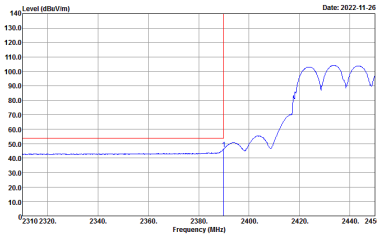
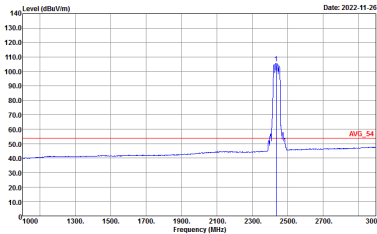


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : : PEAK_74 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH16-HY Condition : : AV6_BE_54 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : : AV6_54 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

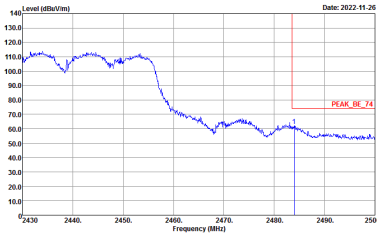
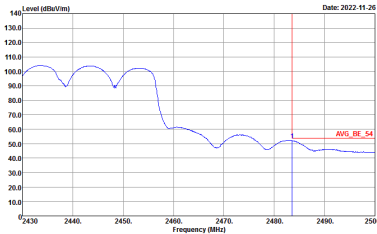


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

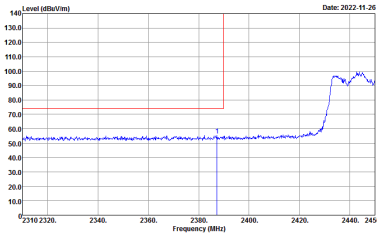
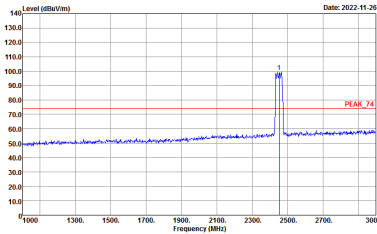
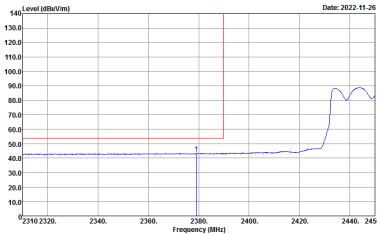
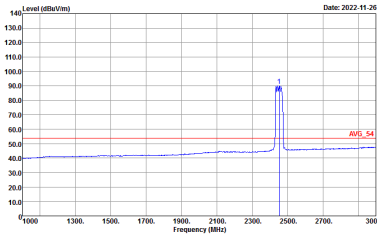


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

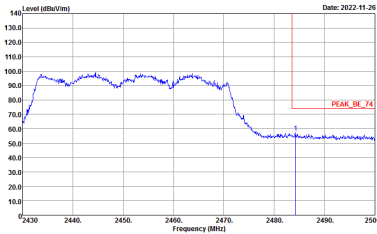
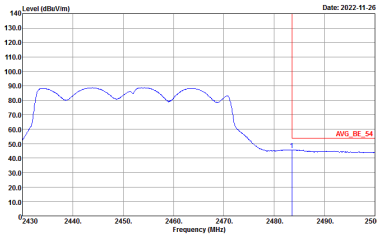


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : : PEAK_BE_74 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH16-HY Condition : : AVG_BE_54 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

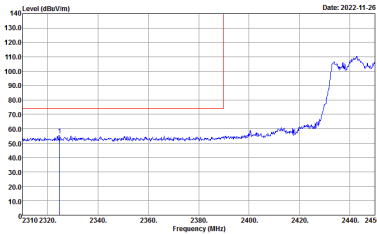
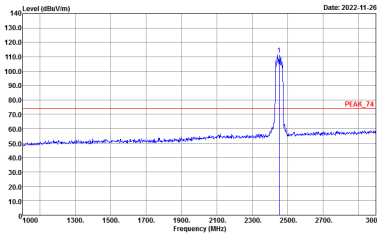
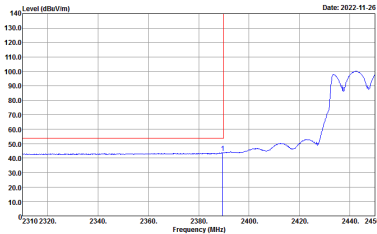
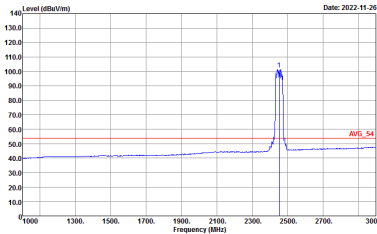


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH09 2452MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : : PEAK_74 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH16-HY Condition : : AV6_BE_54 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto	 Site : 03CH16-HY Condition : : AV6_54 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto
Avg.		

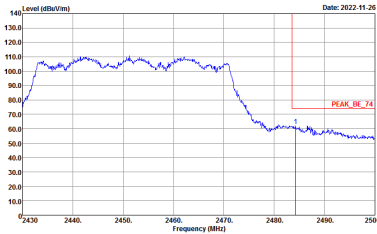
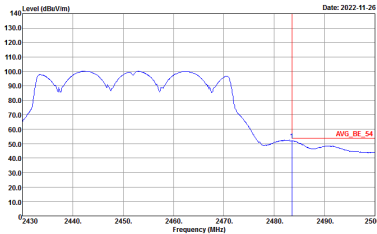


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH09 2452MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : : PEAK_BE_74 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH16-HY Condition : : AVG_BE_54 3m 91200_1522_220310 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH09 2452MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:0.300KHz SWT:Auto	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_220310 VERTICAL RBW:1000.000KHz VBW:0.300KHz SWT:Auto

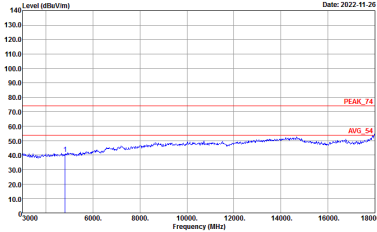
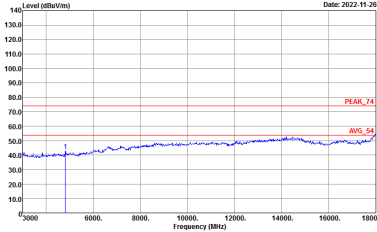


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH09 2452MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : : PEAK_BE_74 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH16-HY Condition : : AVG_BE_54 3m 91200_1522_220310 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

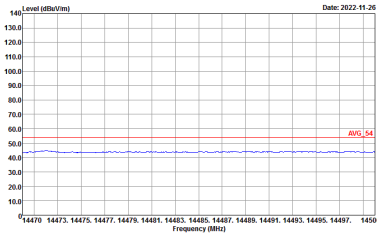
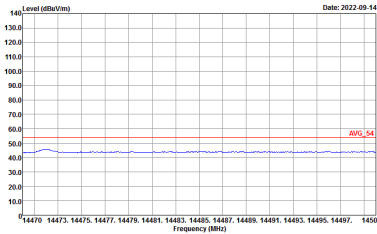
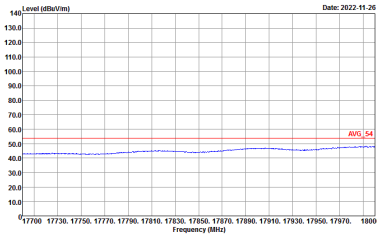
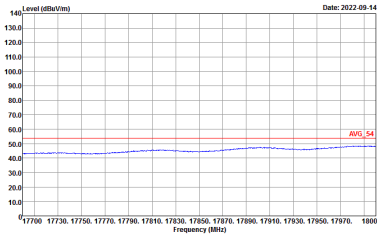


2.4GHz 2400~2483.5MHz

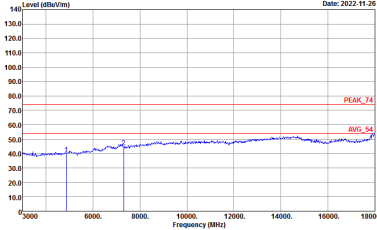
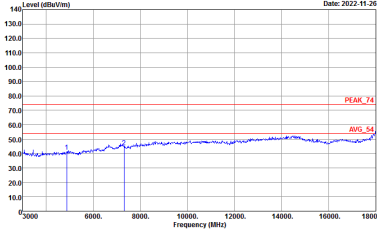
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL :	 Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL :
	 Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL :	 Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL :
17.7G ~18G Avg		



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m 9120D_1522_220310 HORIZONTAL :	 Site : 03CH16-HY Condition : PEAK_74 3m 9120D_1522_220310 VERTICAL :

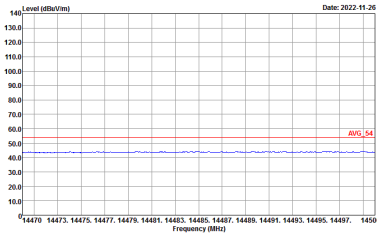
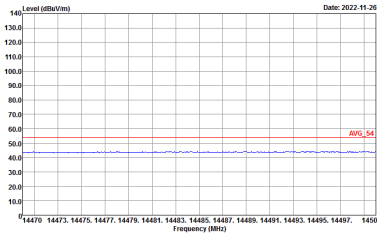
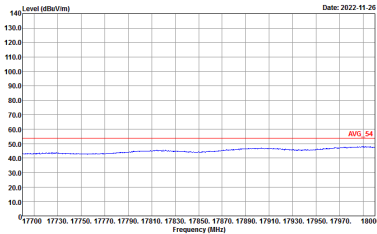
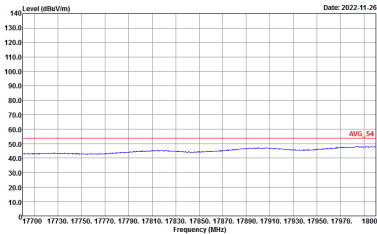


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) graph. The y-axis ranges from 10.0 to 140.0 dBuV/m. The x-axis ranges from 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL :	Level (dBuV/m) vs Frequency (MHz) graph. The y-axis ranges from 10.0 to 140.0 dBuV/m. The x-axis ranges from 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL :
	Level (dBuV/m) vs Frequency (MHz) graph. The y-axis ranges from 10.0 to 140.0 dBuV/m. The x-axis ranges from 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL :	Level (dBuV/m) vs Frequency (MHz) graph. The y-axis ranges from 10.0 to 140.0 dBuV/m. The x-axis ranges from 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL :
17.7G ~18G Avg		



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2022-11-26 PEAK_74 AVG_54 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL	Level (dBuV/m) Date: 2022-11-26 PEAK_74 AVG_54 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 VERTICAL

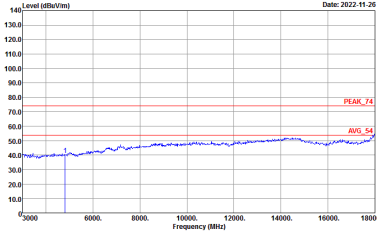
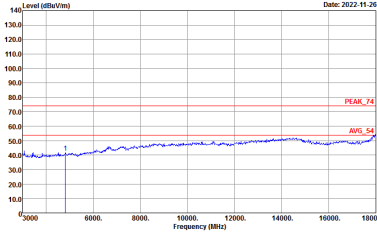


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL :	 Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL :
	 Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL :	 Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL :
17.7G ~18G Avg		

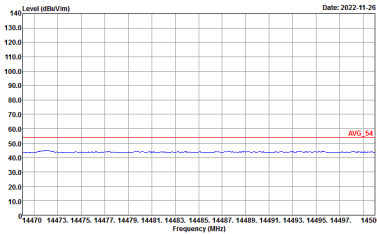
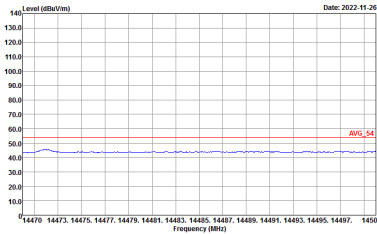
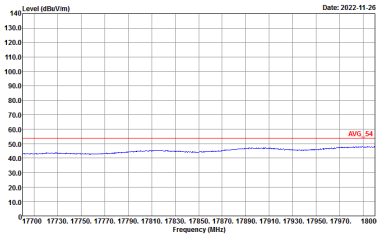
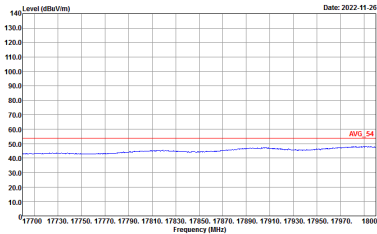


2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL :	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 VERTICAL :



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL :	 Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL :
	 Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL :	 Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL :
17.7G ~18G Avg		

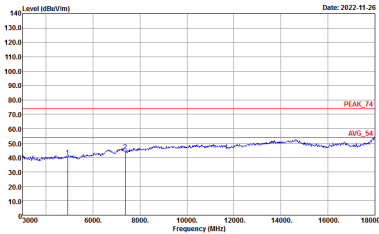
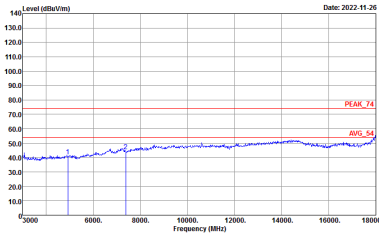


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2022-11-26 Frequency (MHz) Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL	Level (dBuV/m) Date: 2022-11-26 Frequency (MHz) Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a flat line at approximately 45 dBuV/m across the frequency range 14470 to 14500 MHz. The average level is marked as AVG_54. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a flat line at approximately 45 dBuV/m across the frequency range 14470 to 14500 MHz. The average level is marked as AVG_54. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL
	Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a flat line at approximately 45 dBuV/m across the frequency range 17700 to 18000 MHz. The average level is marked as AVG_54. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a flat line at approximately 45 dBuV/m across the frequency range 17700 to 18000 MHz. The average level is marked as AVG_54. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL :	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 VERTICAL :

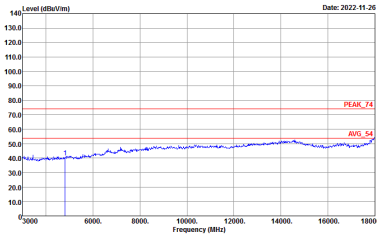
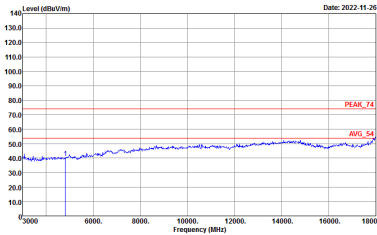


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a flat line at approximately 45 dBuV/m across the frequency range 14470 to 14500 MHz. The date is 2022-11-26. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a flat line at approximately 45 dBuV/m across the frequency range 14470 to 14500 MHz. The date is 2022-11-26. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL
	Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a flat line at approximately 45 dBuV/m across the frequency range 17700 to 18000 MHz. The date is 2022-11-26. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a flat line at approximately 45 dBuV/m across the frequency range 17700 to 18000 MHz. The date is 2022-11-26. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL



2.4GHz 2400~2483.5MHz

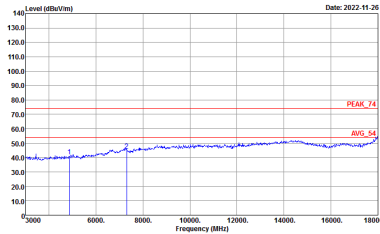
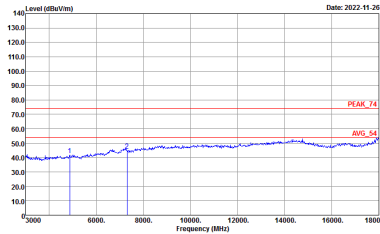
WIFI 802.11 ax HE20 Full (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE20 Full CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE20 Full CH01 2412MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a flat line at approximately 45 dBuV/m across the frequency range 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The date is 2022-11-26. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL :	Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a flat line at approximately 45 dBuV/m across the frequency range 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The date is 2022-11-26. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL :
	Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a flat line at approximately 45 dBuV/m across the frequency range 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The date is 2022-11-26. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL :	Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a flat line at approximately 45 dBuV/m across the frequency range 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The date is 2022-11-26. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL :

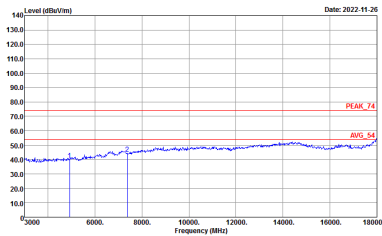
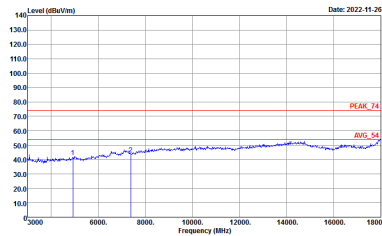


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE20 Full CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL :	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 VERTICAL :



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE20 Full CH06 2437MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a flat line at approximately 45 dBuV/m across the frequency range 14470 to 14500 MHz. The average level is 14.47G. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a flat line at approximately 45 dBuV/m across the frequency range 14470 to 14500 MHz. The average level is 14.47G. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL
	Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a flat line at approximately 45 dBuV/m across the frequency range 17700 to 18000 MHz. The average level is 17.7G. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a flat line at approximately 45 dBuV/m across the frequency range 17700 to 18000 MHz. The average level is 17.7G. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE20 Full CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m 9120D_1522_220310 HORIZONTAL Detector : Peak	 Site : 03CH16-HY Condition : PEAK_74 3m 9120D_1522_220310 VERTICAL Detector : Peak

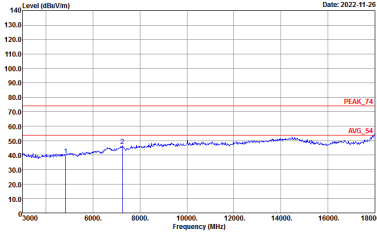
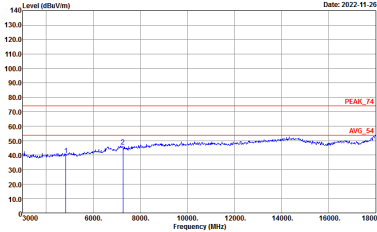


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE20 Full CH11 2462MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_220310 HORIZONTAL Detector : Peak	Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_220310 VERTICAL Detector : Peak
	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_220310 HORIZONTAL Detector : Peak	Level (dBuV/m) vs Frequency (MHz) plot for Vertical polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. The plot shows a flat spectrum with noise floor around 40 dBuV/m. Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_220310 VERTICAL Detector : Peak



2.4GHz 2400~2483.5MHz

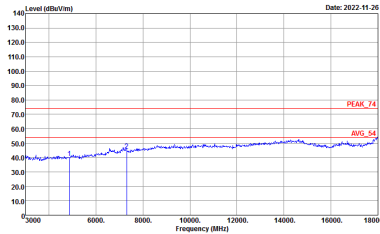
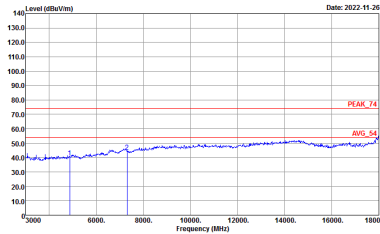
WIFI 802.11 ax HE40 Full (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE40 Full CH03 2422MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE40 Full CH03 2422MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a flat line at approximately 45 dBuV/m across the frequency range 14470 to 14500 MHz. The average level is 14.47G. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a flat line at approximately 45 dBuV/m across the frequency range 14470 to 14500 MHz. The average level is 14.47G. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL
	Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a flat line at approximately 45 dBuV/m across the frequency range 17700 to 18000 MHz. The average level is 17.7G. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a flat line at approximately 45 dBuV/m across the frequency range 17700 to 18000 MHz. The average level is 17.7G. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL

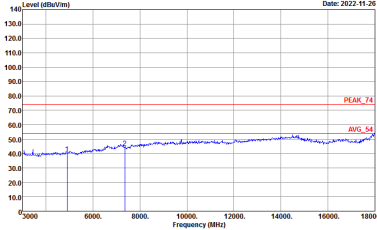
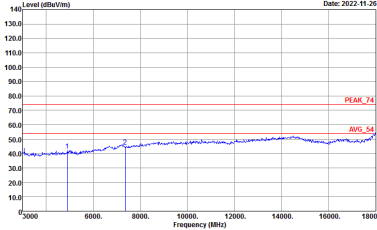


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE40 Full CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_T4 3m 9120D_1522_220310 HORIZONTAL :	 Site : 03CH16-HY Condition : PEAK_T4 3m 9120D_1522_220310 VERTICAL :

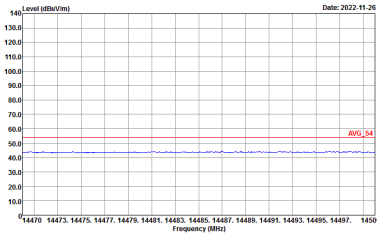
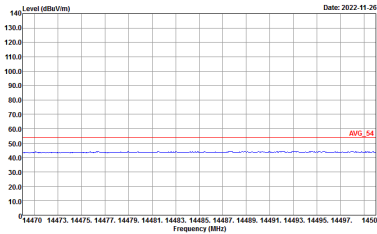
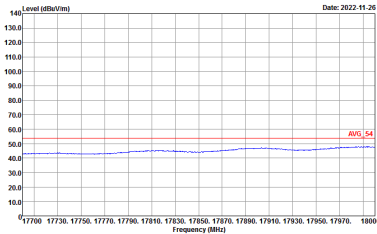
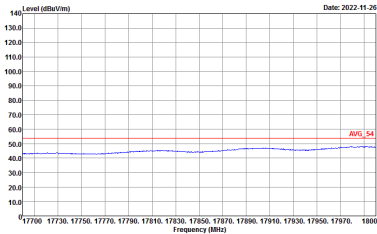


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE40 Full CH06 2437MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a flat line at approximately 45 dBuV/m across the frequency range 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a flat line at approximately 45 dBuV/m across the frequency range 14470 to 14500 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL
	Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a flat line at approximately 45 dBuV/m across the frequency range 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a flat line at approximately 45 dBuV/m across the frequency range 17700 to 18000 MHz. A red line labeled 'AVG_54' is at approximately 55 dBuV/m. Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE40 Full CH09 2452MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 HORIZONTAL :	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_220310 VERTICAL :



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE40 Full CH09 2452MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL :	 Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL :
	 Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 HORIZONTAL :	 Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_220310 VERTICAL :

17.7G
~18G
Avg



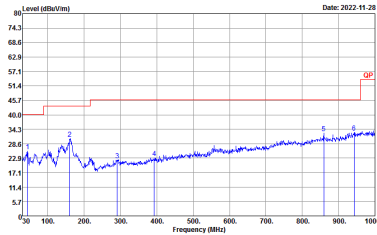
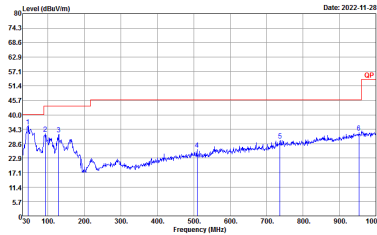
Emission above 18GHz

2.4GHz WIFI 802.11ax HE20 Full (SHF @ 1m)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11ax HE20 Full SHF	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2022-11-29 Site : 03CH16-HY Condition : PEAK_74 1m SHF ANT_9170_00993 HORIZONTAL Detector : Peak	Level (dBuV/m) Date: 2022-11-29 Site : 03CH16-HY Condition : PEAK_74 1m SHF ANT_9170_00993 VERTICAL Detector : Peak



Emission below 1GHz
2.4GHz WIFI 802.11ax HE20 Full (LF)

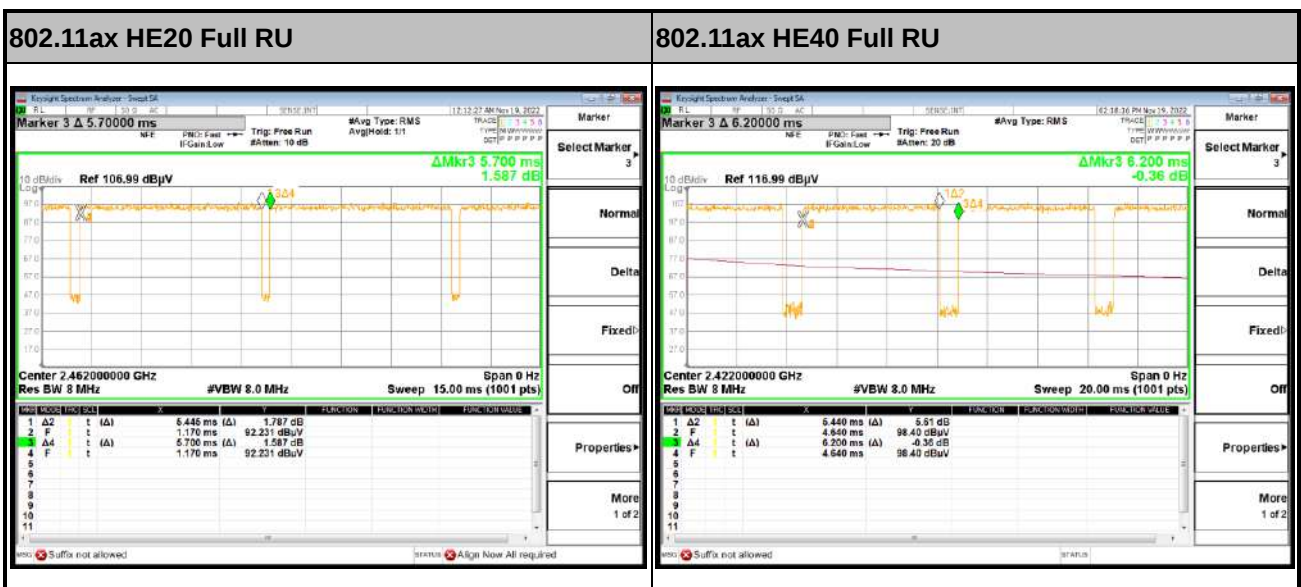
WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11ax HE20 Full LF	
1+2	Horizontal	Vertical
QP / Peak	 Site : 03CH16-HY Condition : QP 3m BIL06_47020_221008_H HORIZONTAL :	 Site : 03CH16-HY Condition : QP 3m BIL06_47020_221008_H VERTICAL :



Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1+2	802.11b	74.71	650	1.54	3kHz
1+2	802.11g	92.88	1435	0.70	1kHz
1+2	2.4GHz 802.11ax HE20 Full RU	95.70	5445	0.18	300Hz
1+2	2.4GHz 802.11ax HE40 Full RU	87.74	5440	0.18	300Hz

MIMO <Ant. 1+2>



—THE END—