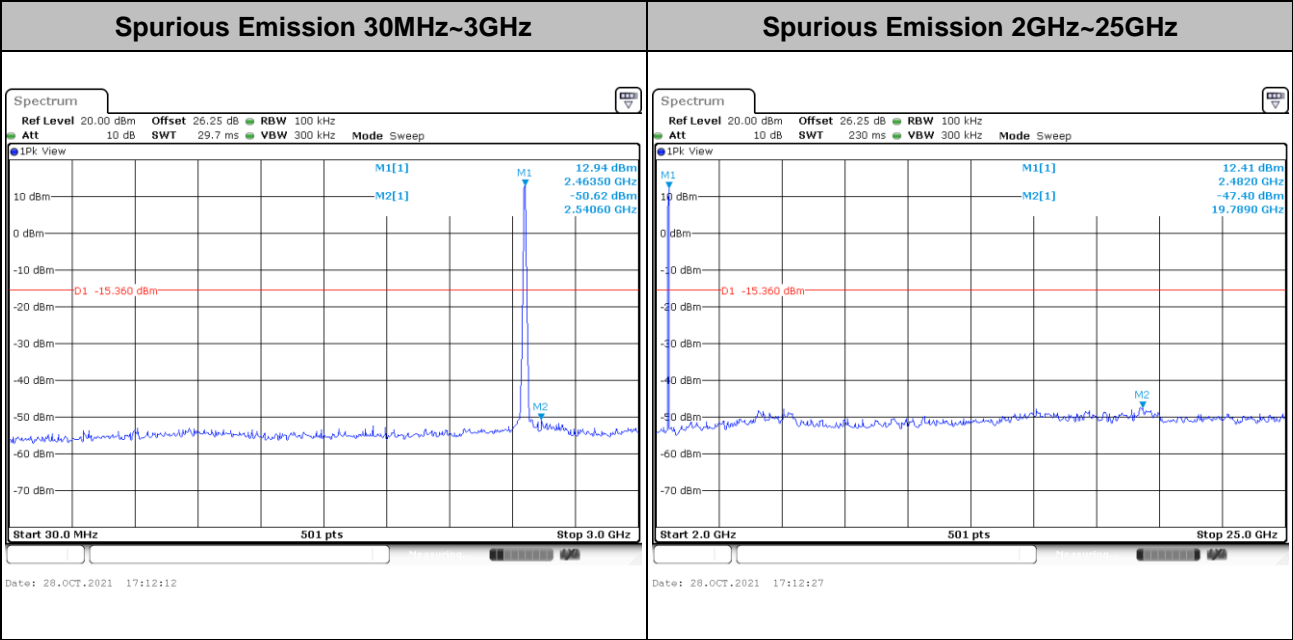
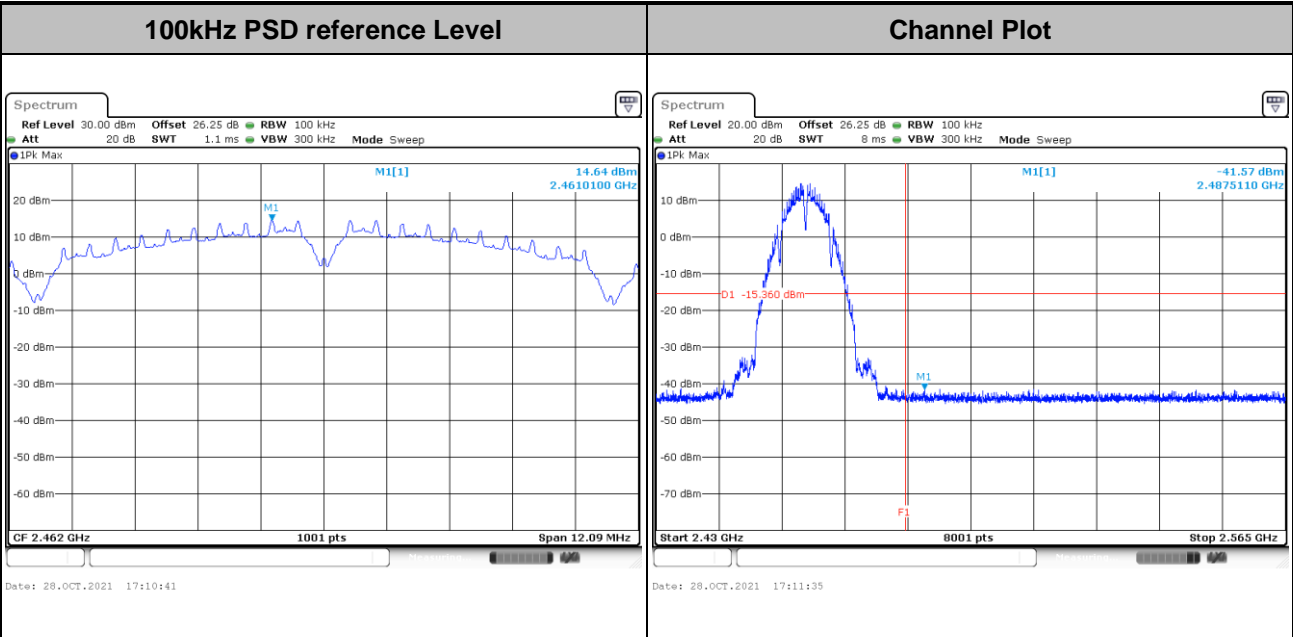


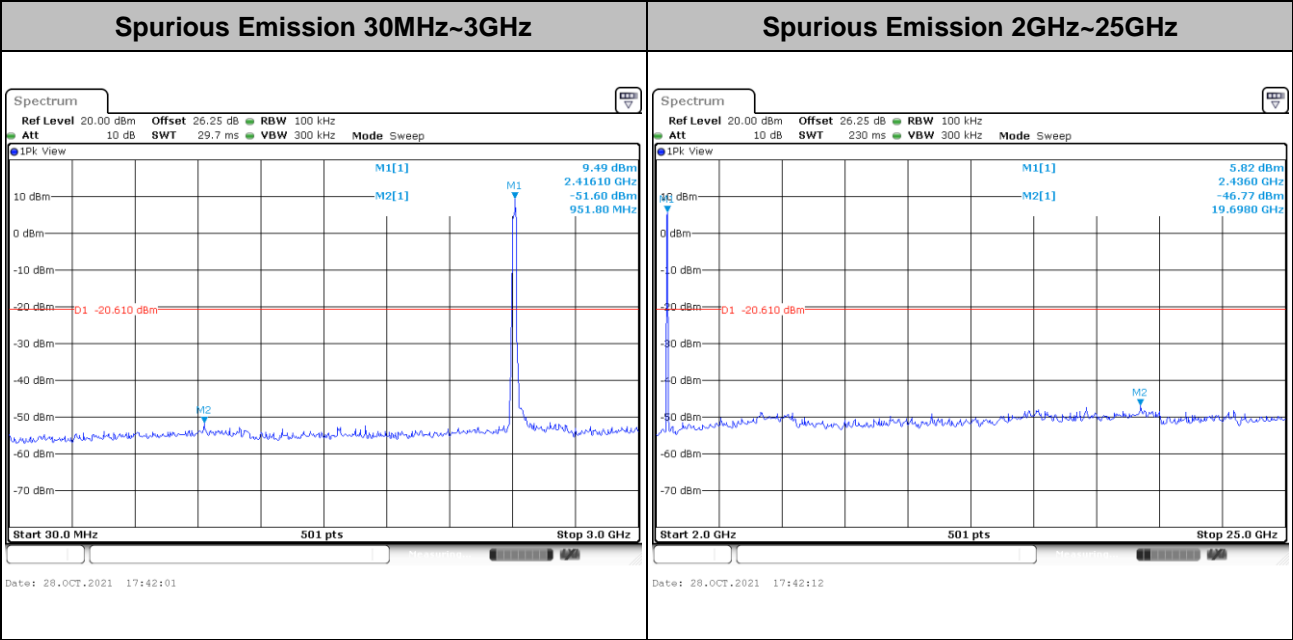
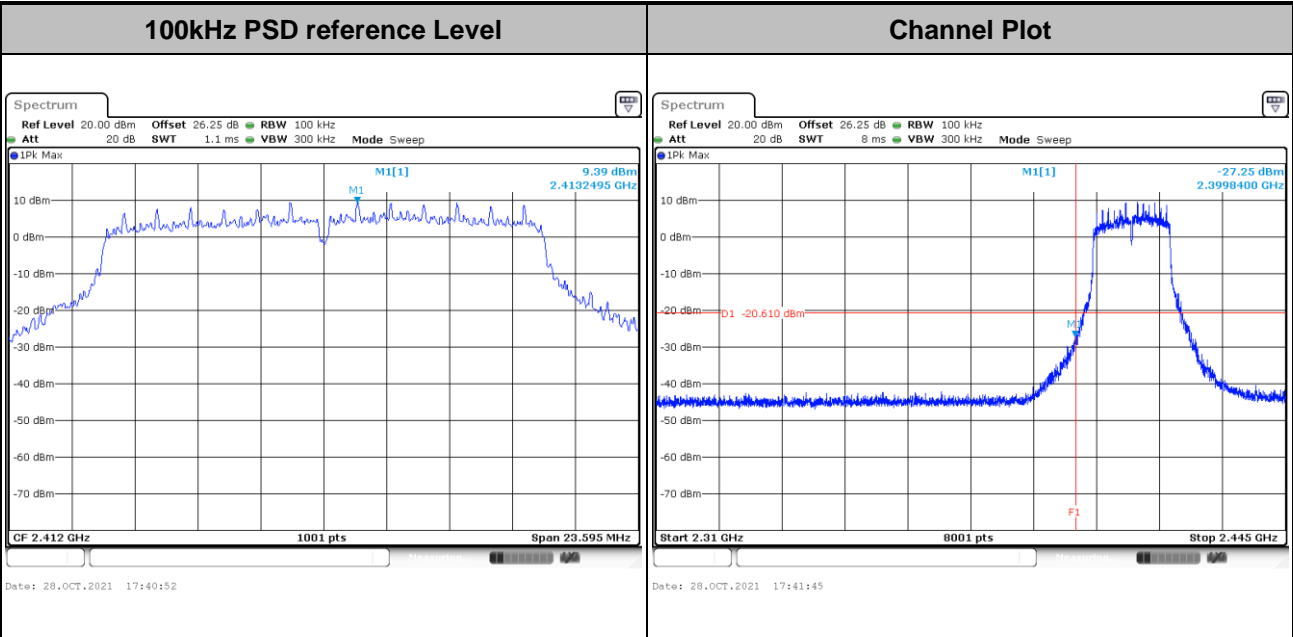


Test Mode :	802.11b	Test Channel :	11
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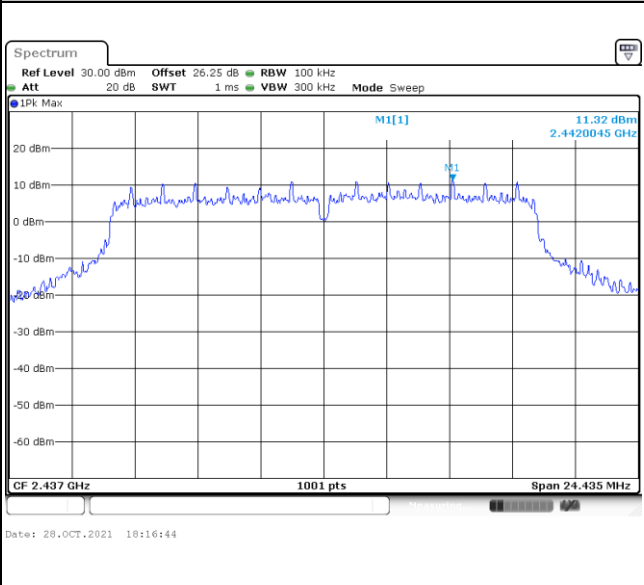
Test Mode :	802.11g	Test Channel :	01
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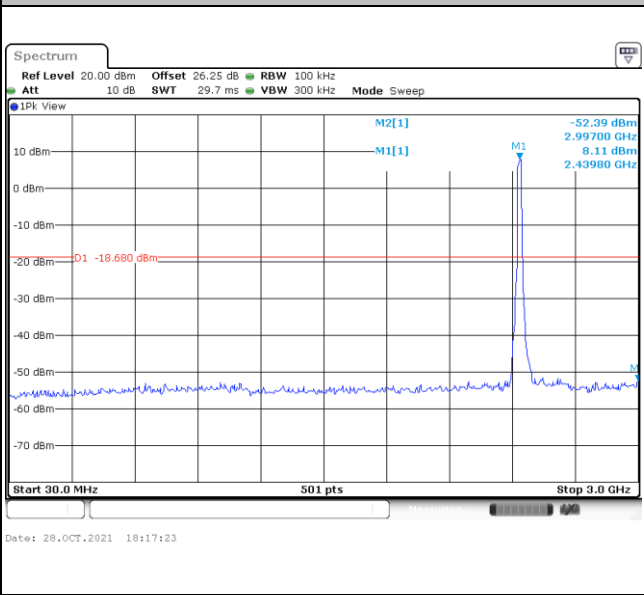


Test Mode :	802.11g	Test Channel :	06
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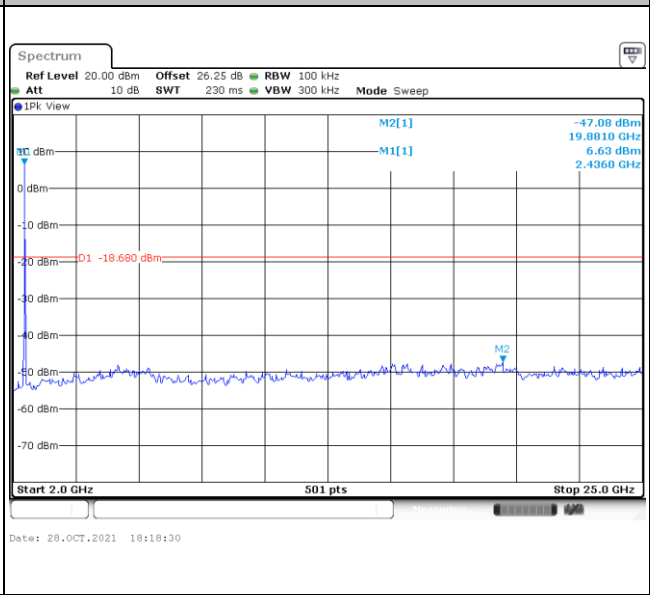
100kHz PSD reference Level	Channel Plot
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Spurious Emission 30MHz~3GHz

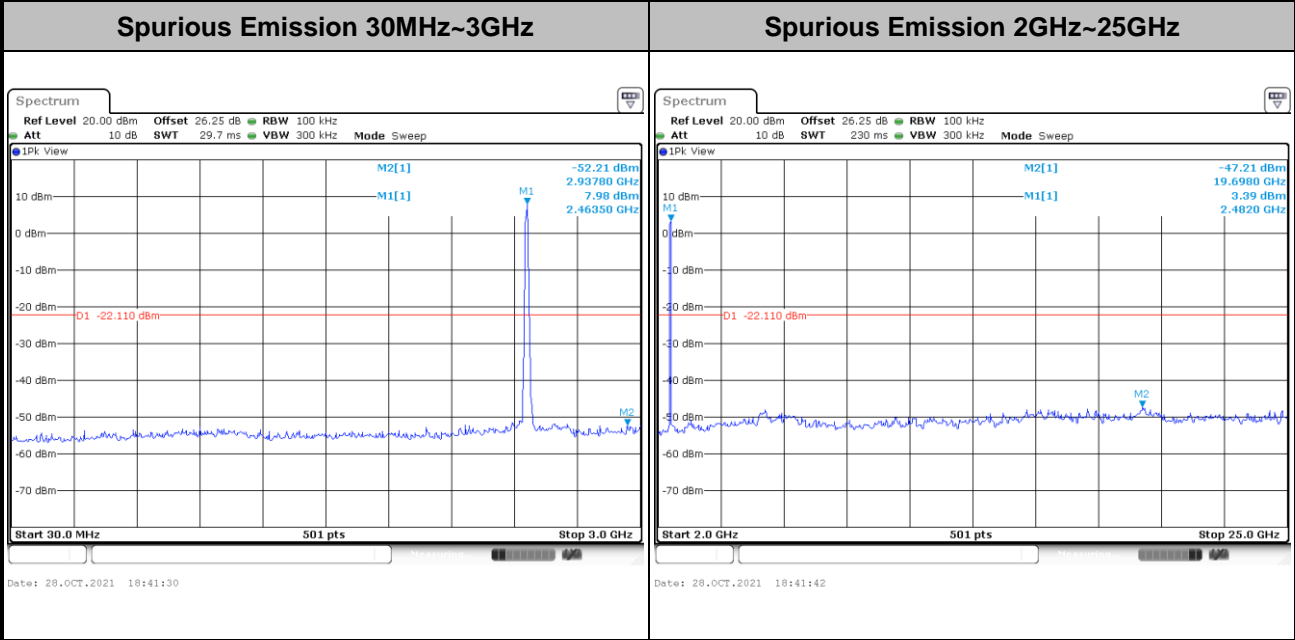
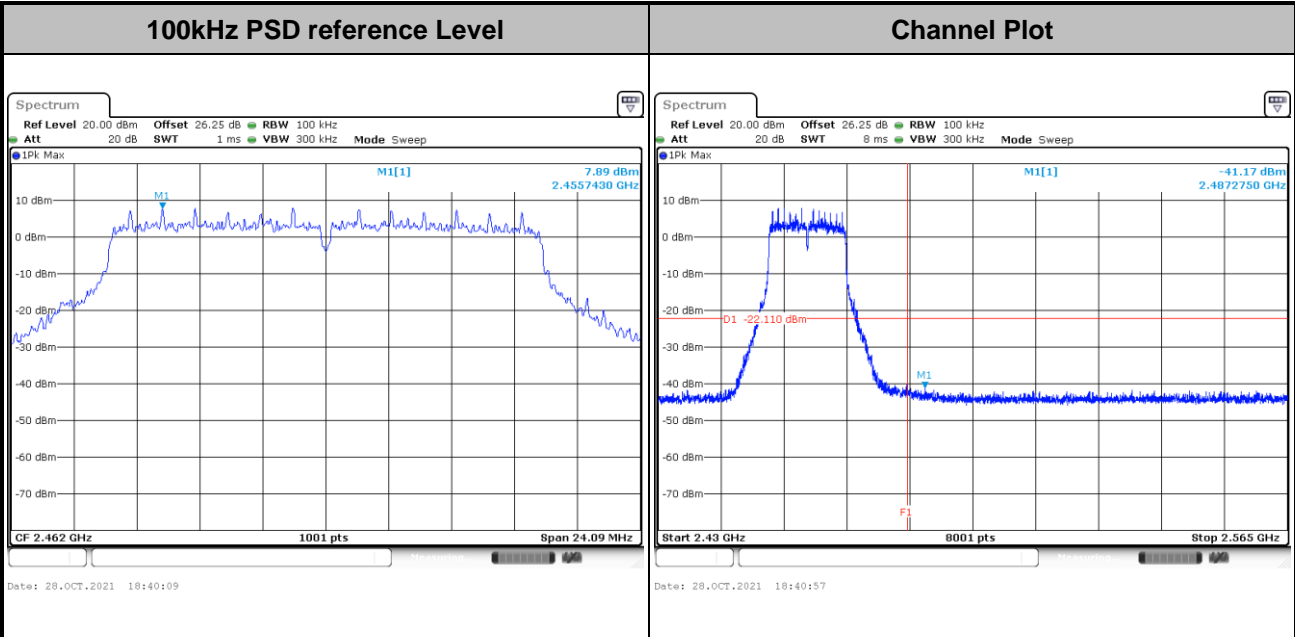


Spurious Emission 2GHz~25GHz



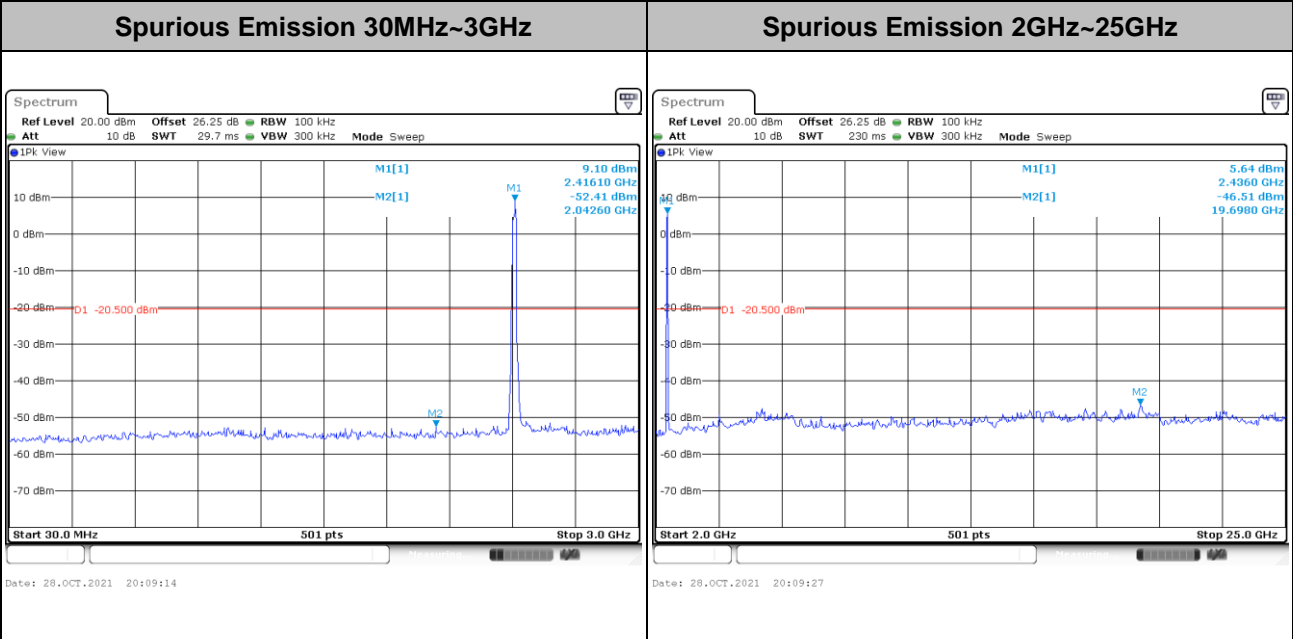
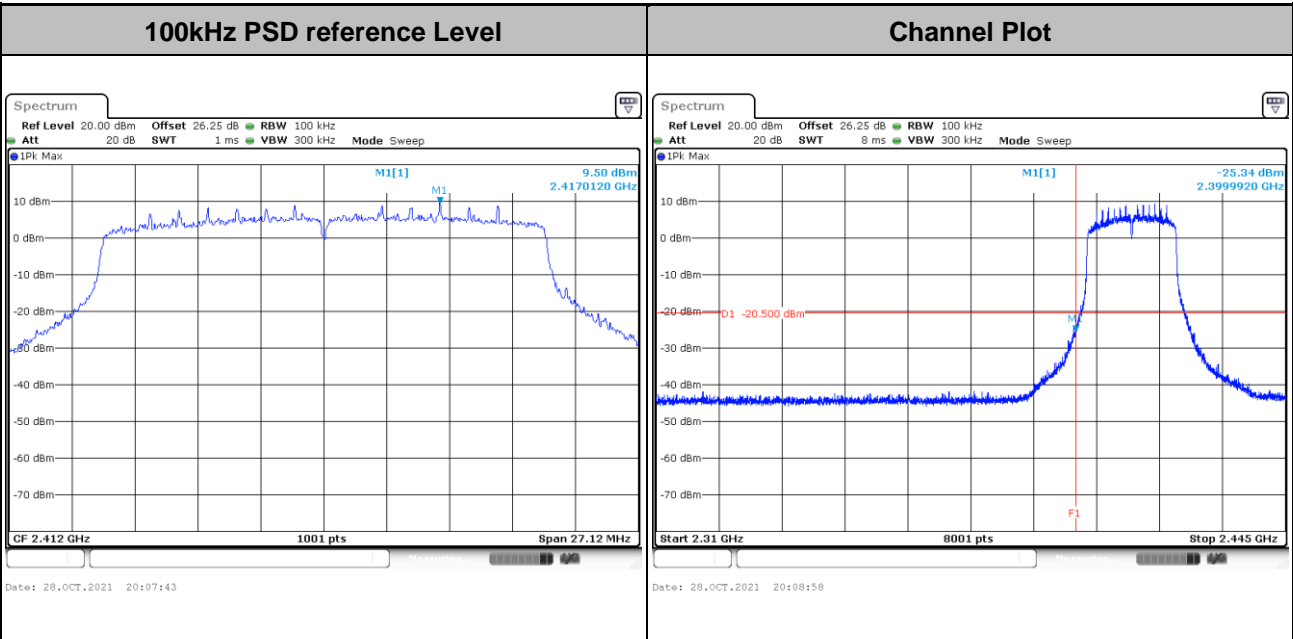


Test Mode :	802.11g	Test Channel :	11
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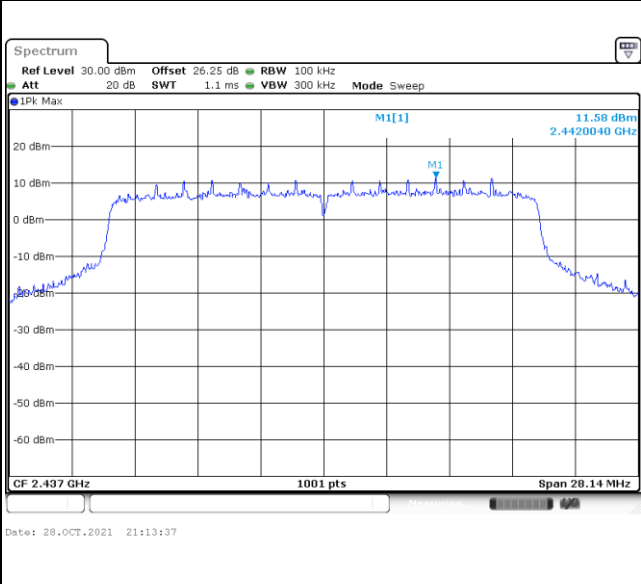
Test Mode :	802.11ax HE20	Test Channel :	01 Full RU
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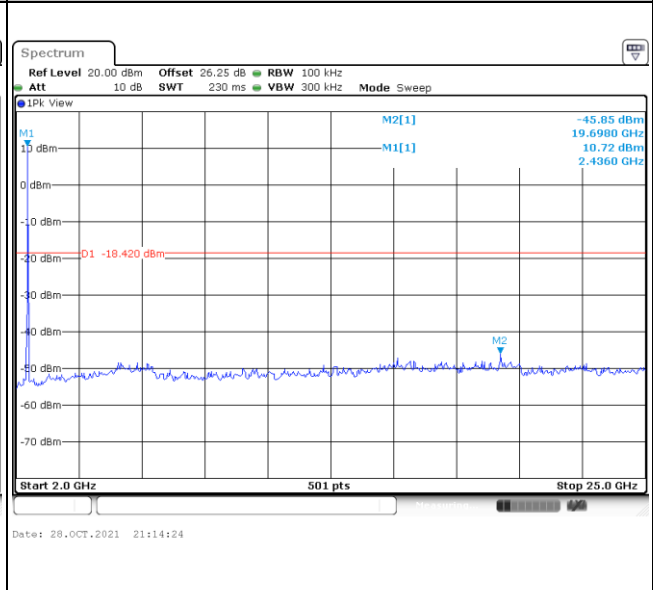
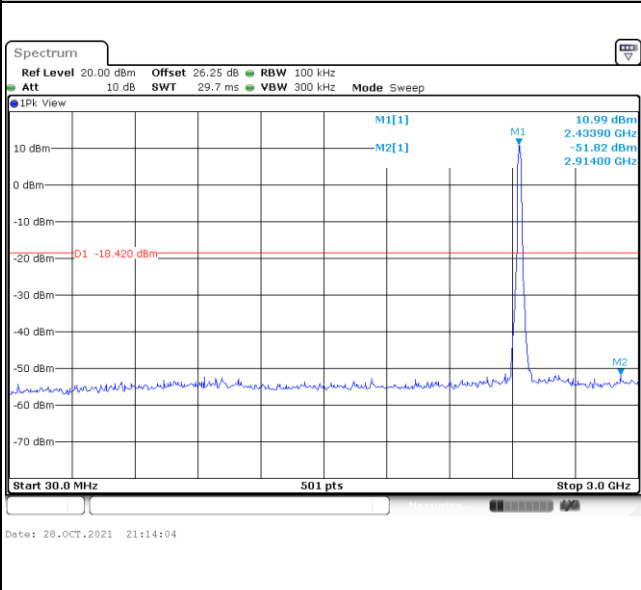


Test Mode :	802.11ax HE20	Test Channel :	06 Full RU
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100kHz PSD reference Level	Channel Plot
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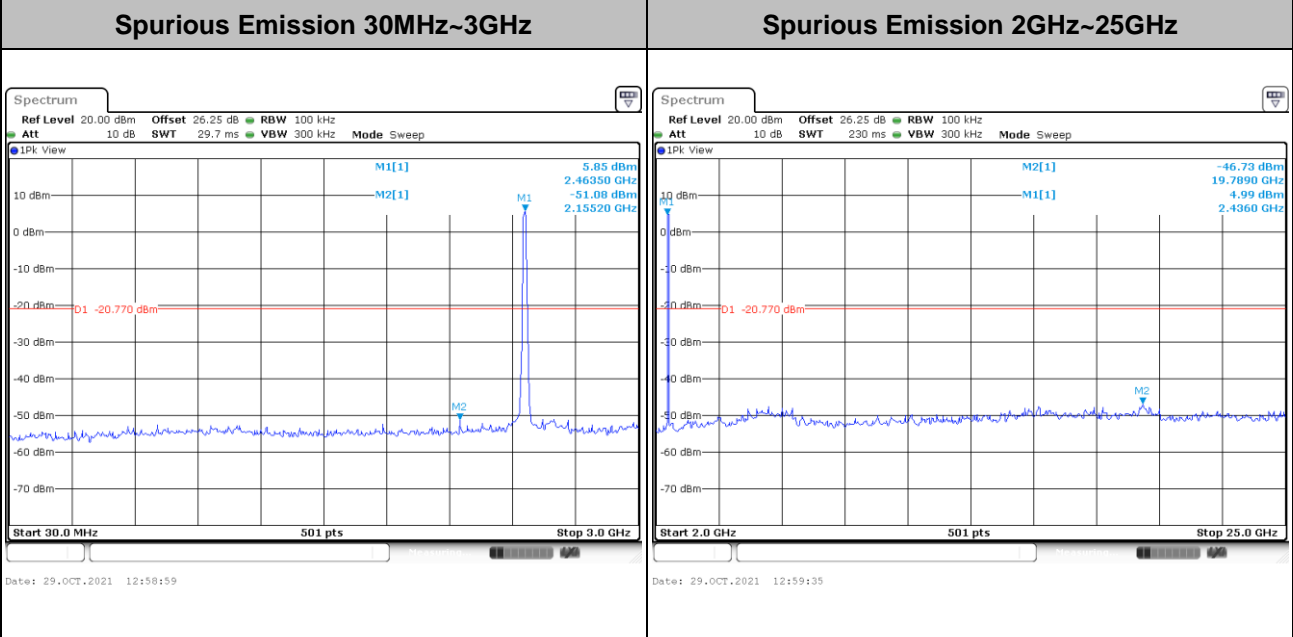
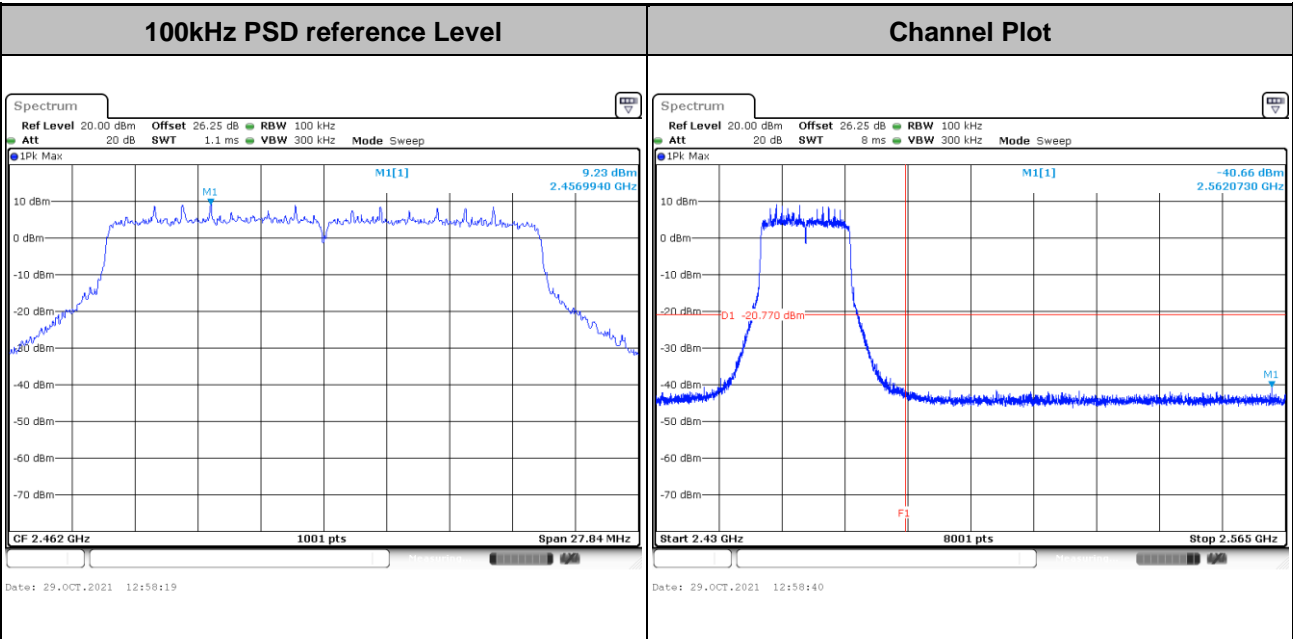


Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
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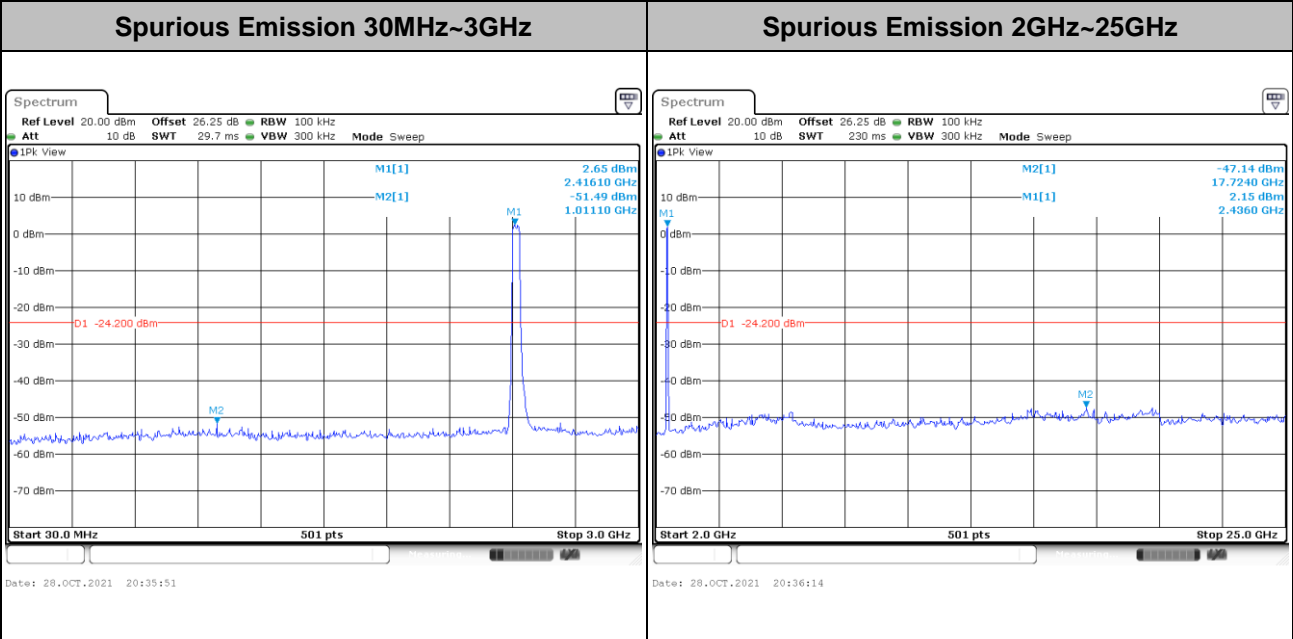
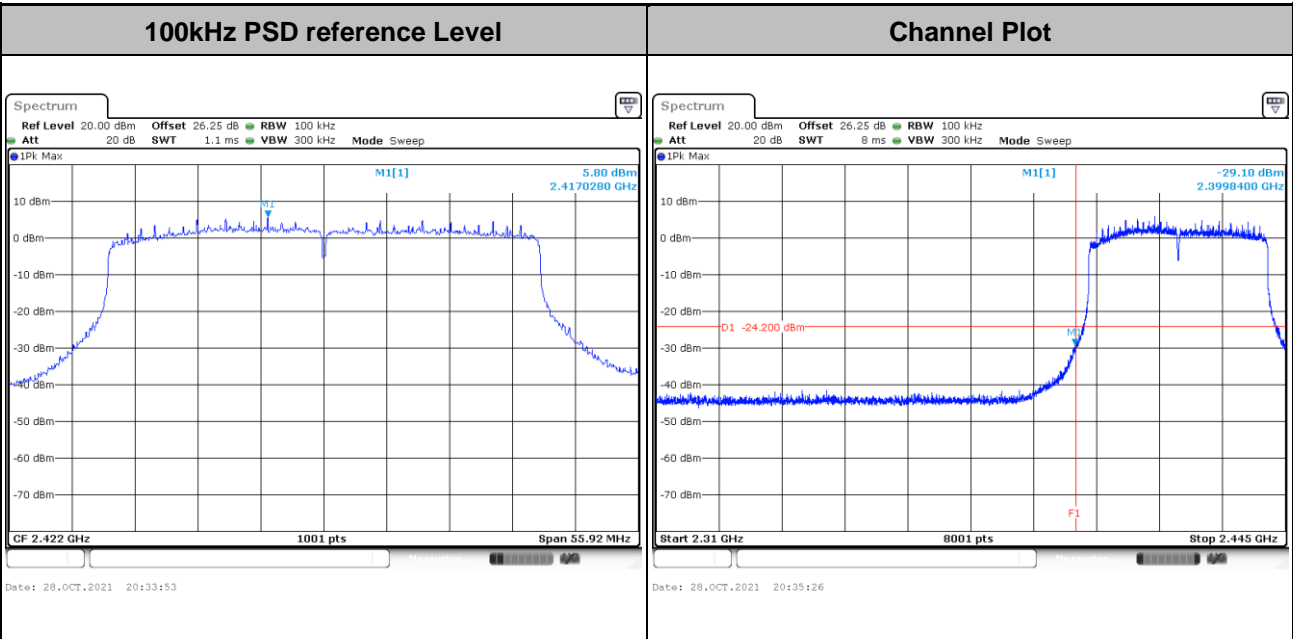


Test Mode : 802.11ax HE20	Test Channel : 11 Full RU
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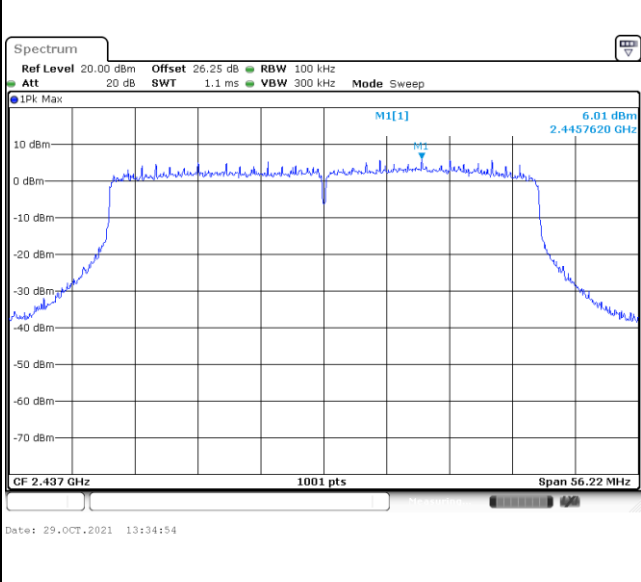
Test Mode :	802.11ax HE40	Test Channel :	03 Full RU
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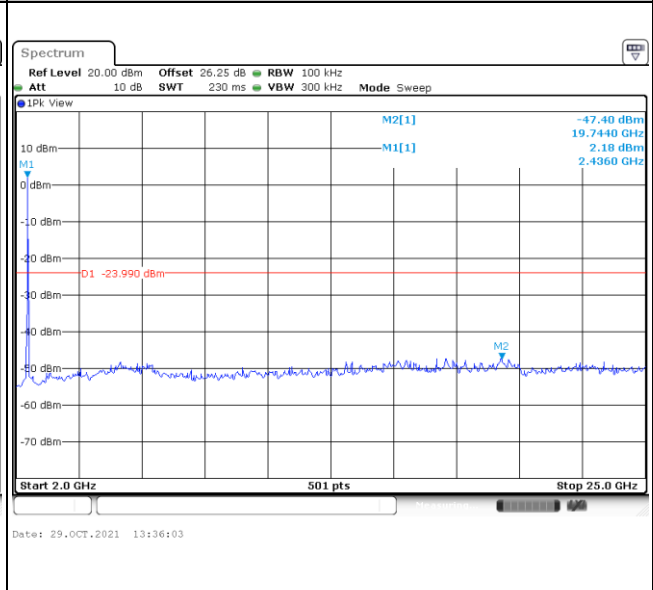
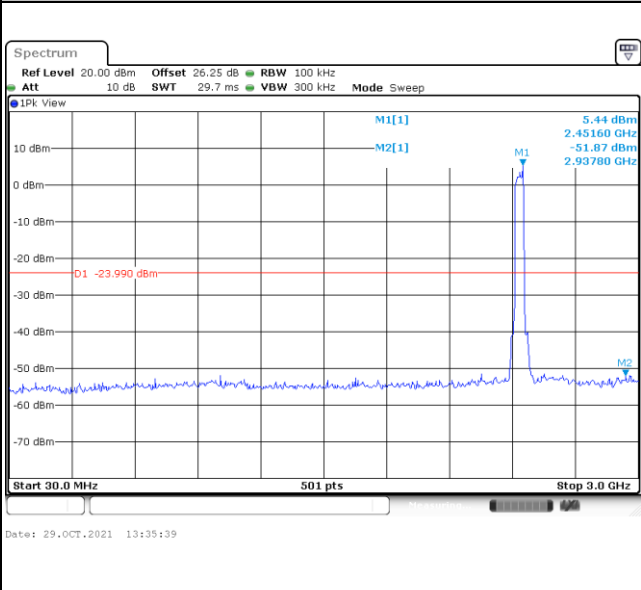


Test Mode :	802.11ax HE40	Test Channel :	06 Full RU
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100kHz PSD reference Level	Channel Plot
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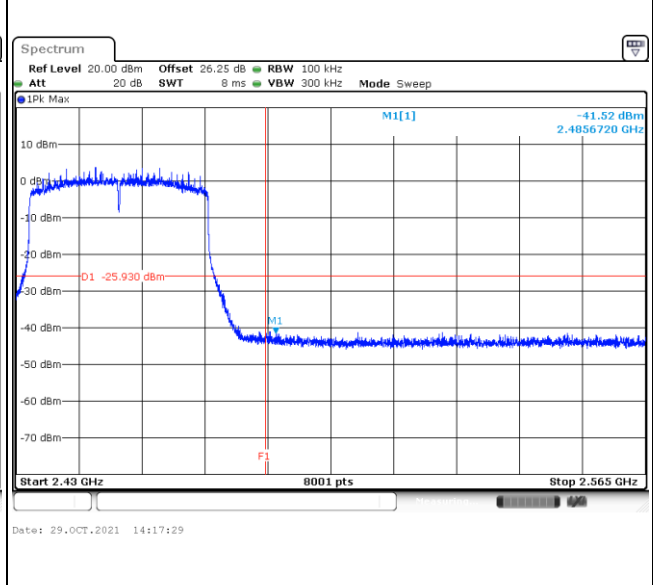
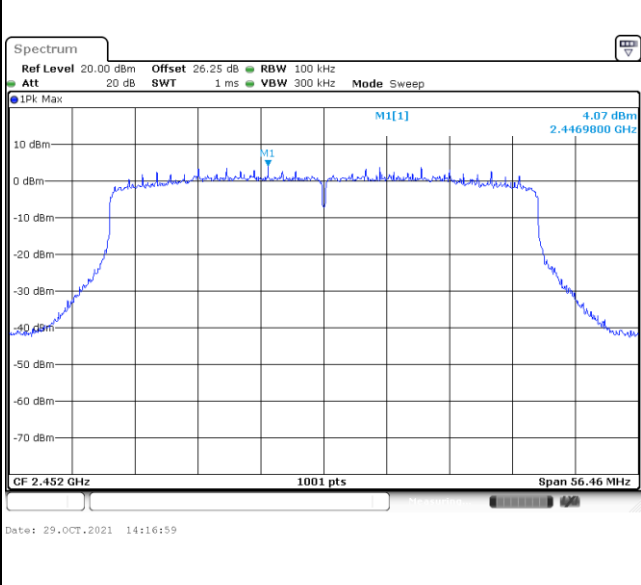
Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
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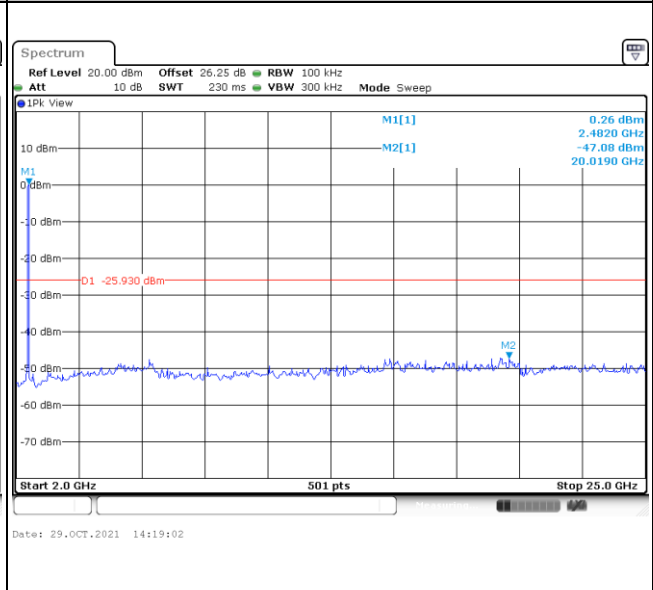
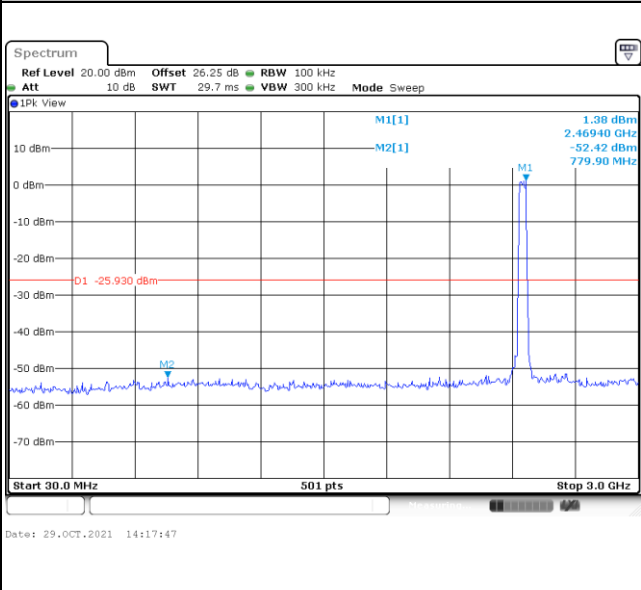


Test Mode :	802.11ax HE40	Test Channel :	09 Full RU
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100kHz PSD reference Level	Channel Plot
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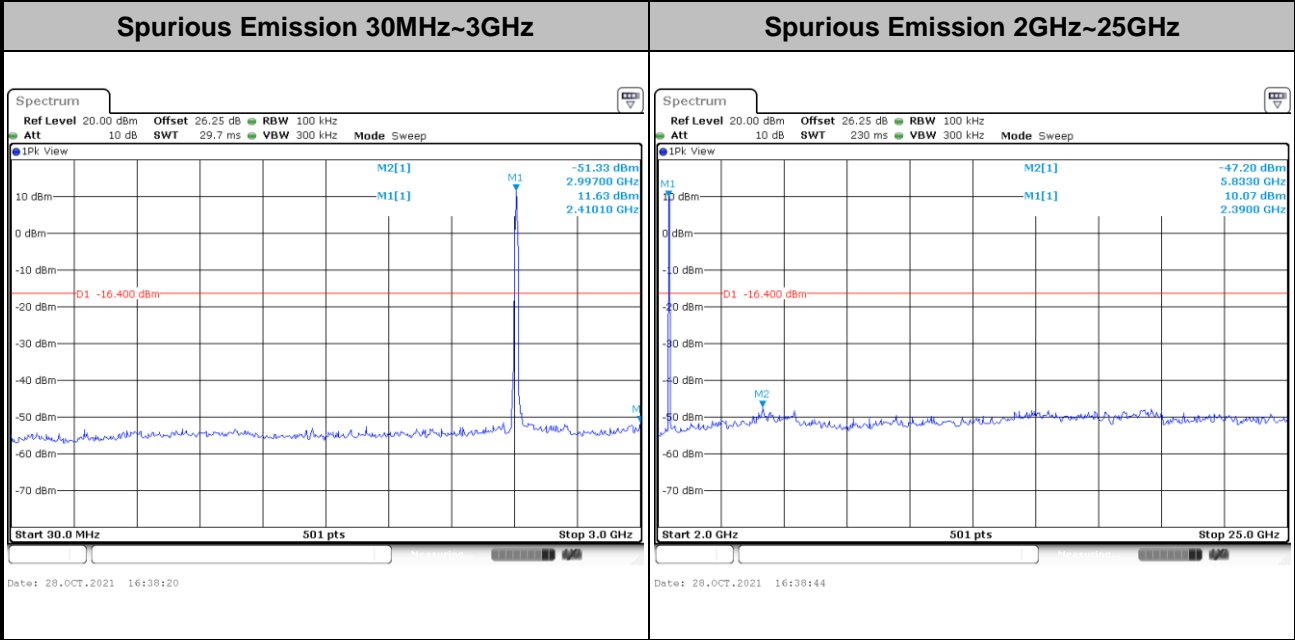
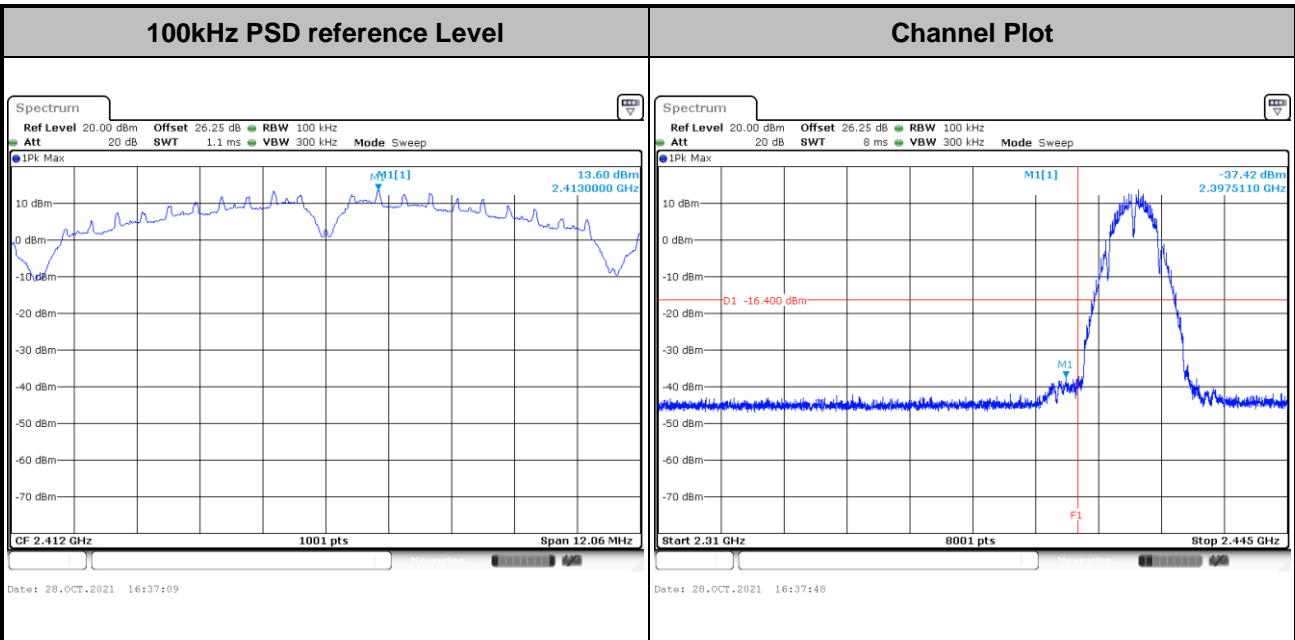
Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
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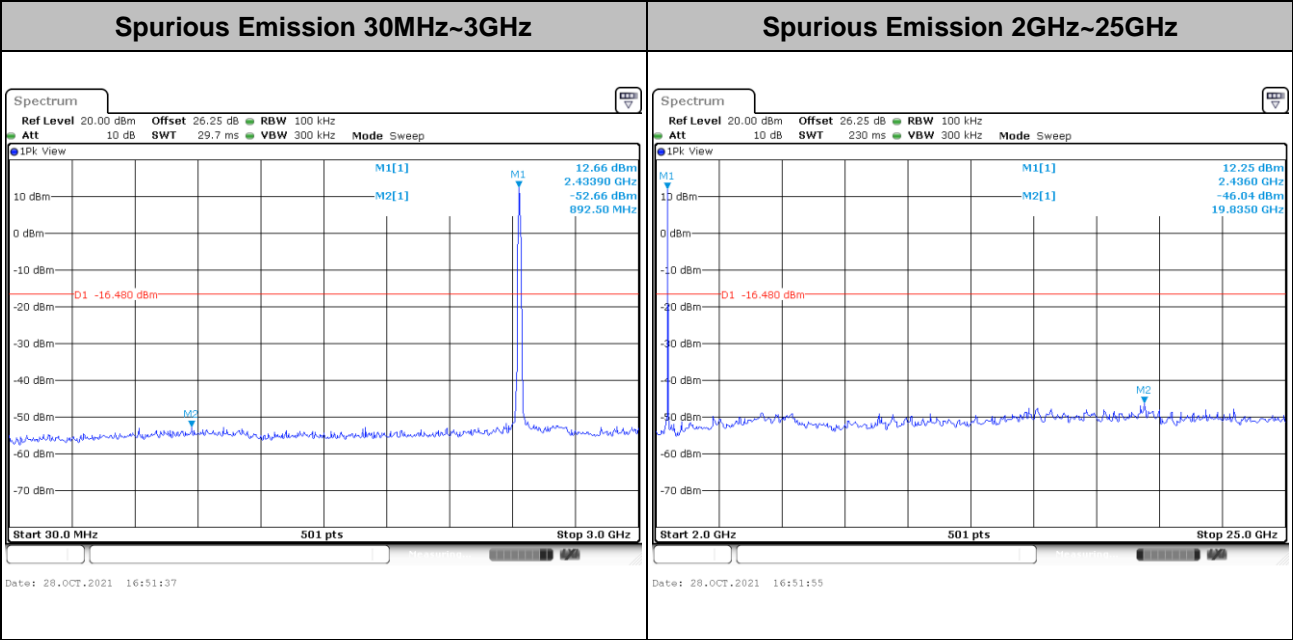
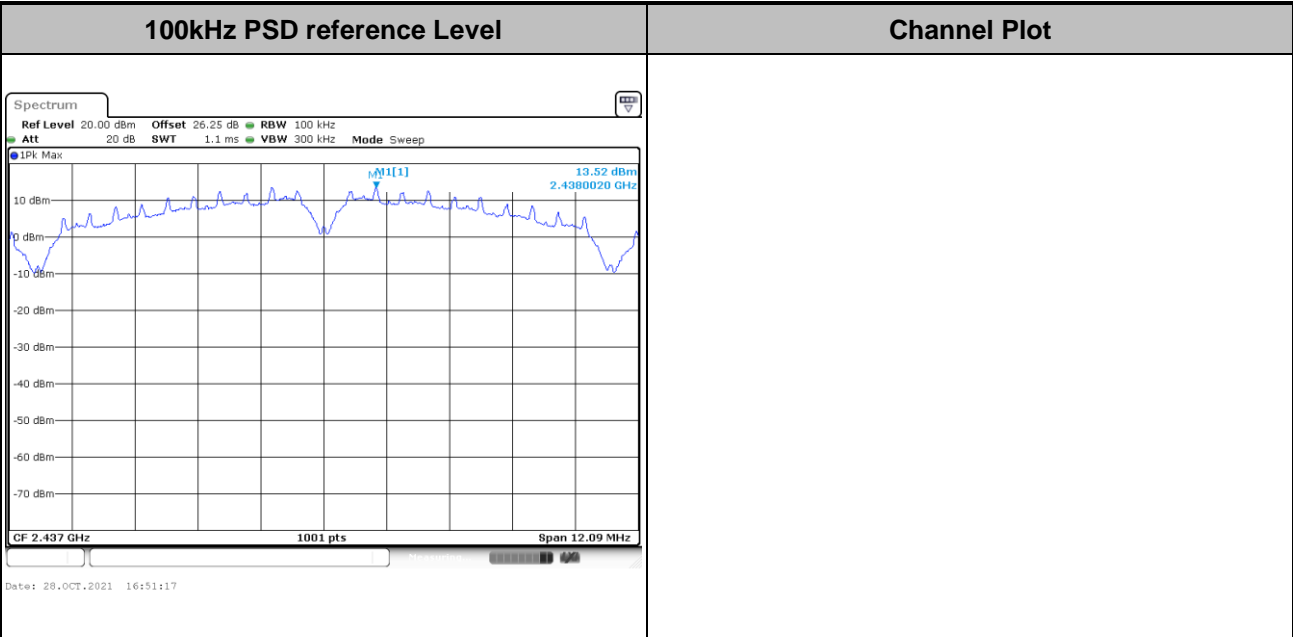
Number of TX = 4, Ant. C (Measured)

Test Mode :	802.11b	Test Channel :	01
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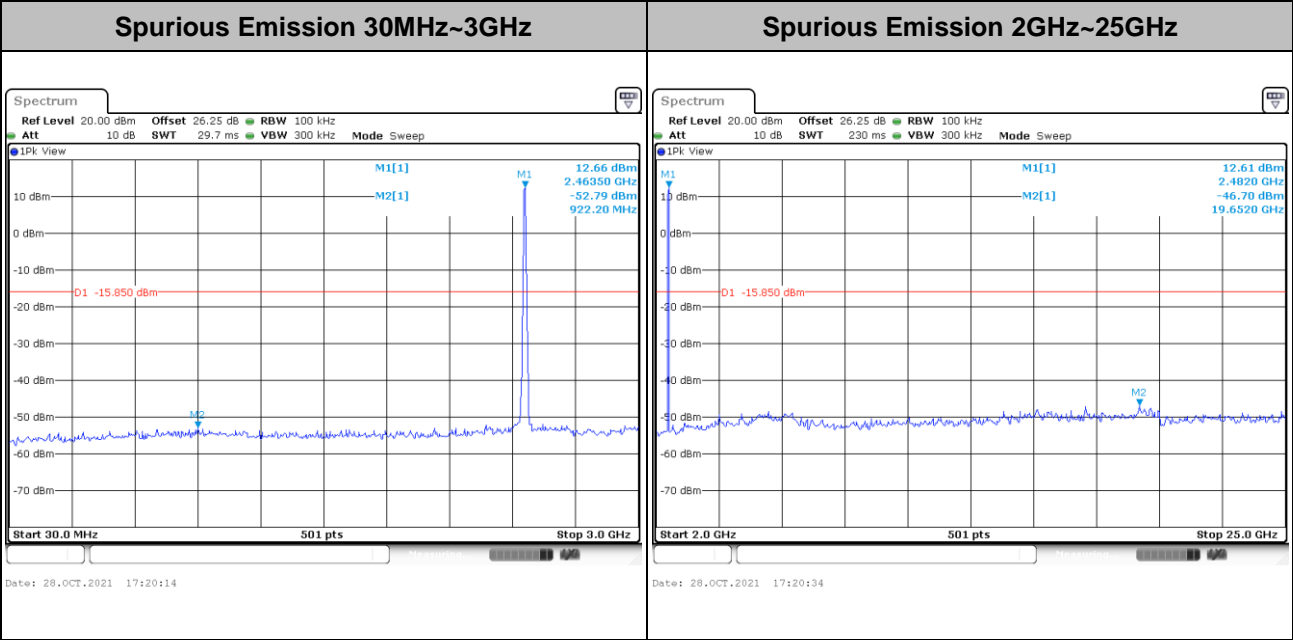
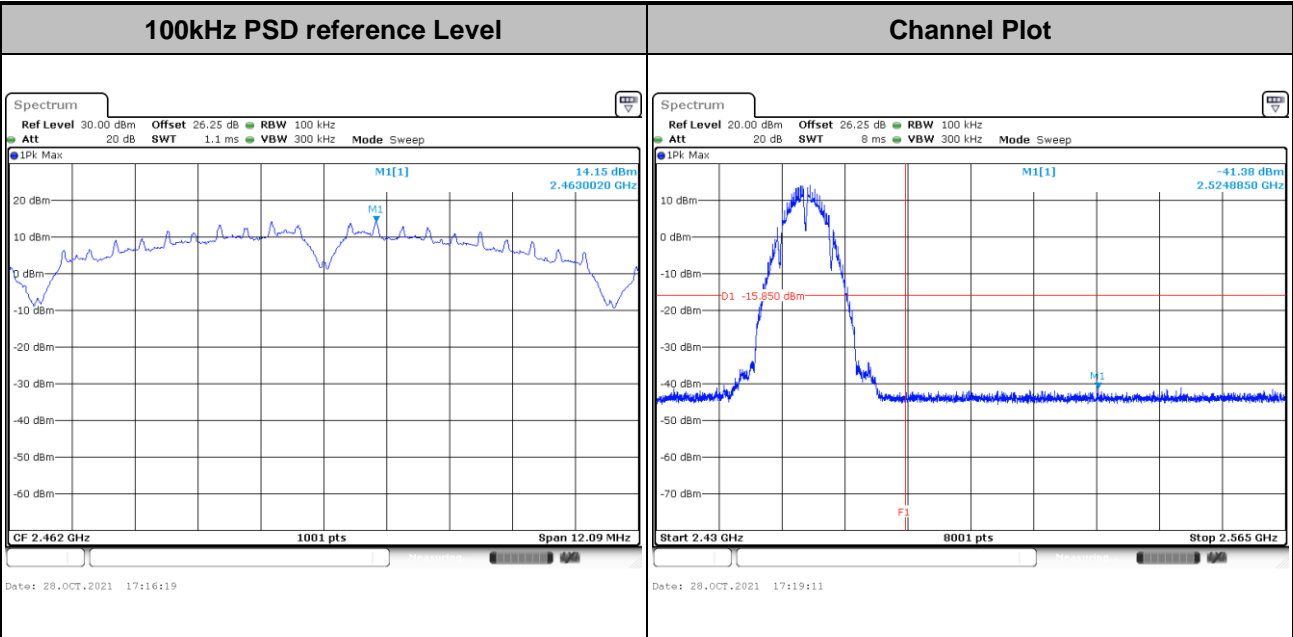


Test Mode :	802.11b	Test Channel :	06
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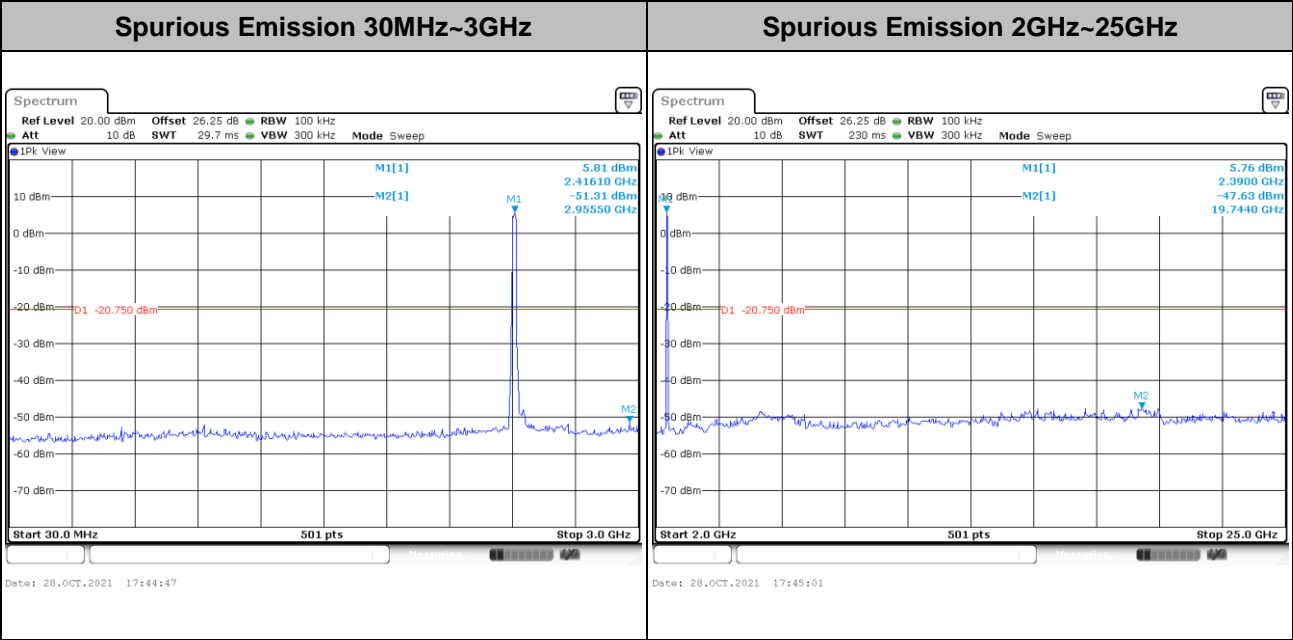
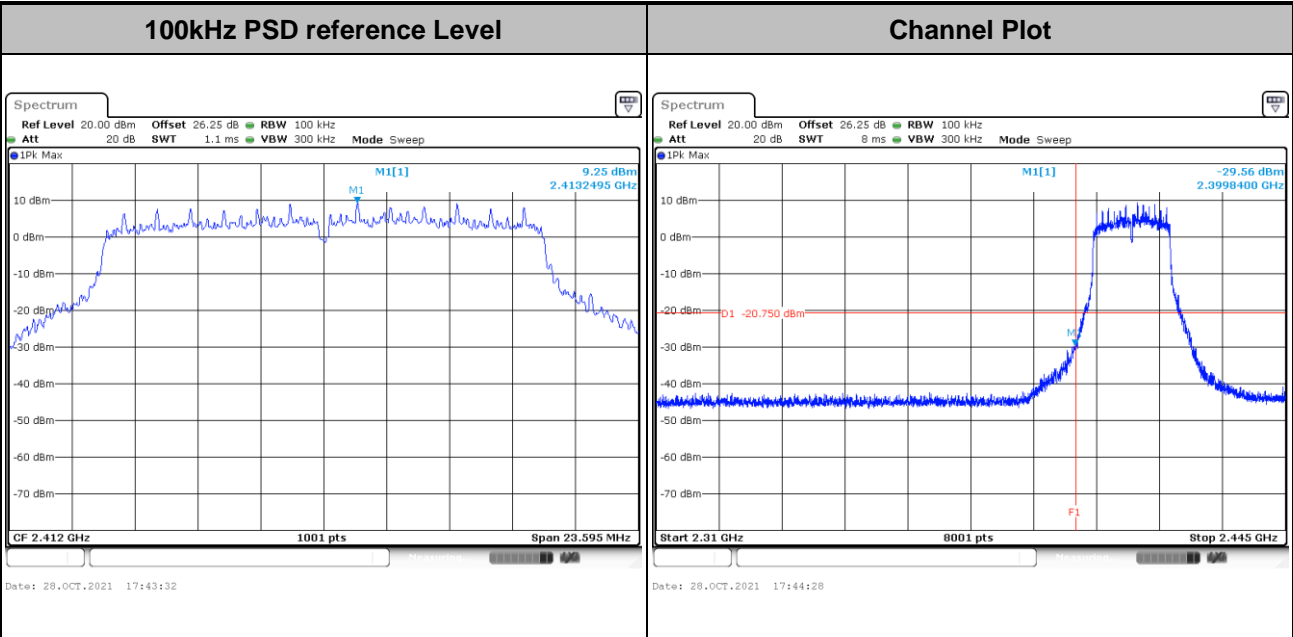


Test Mode :	802.11b	Test Channel :	11
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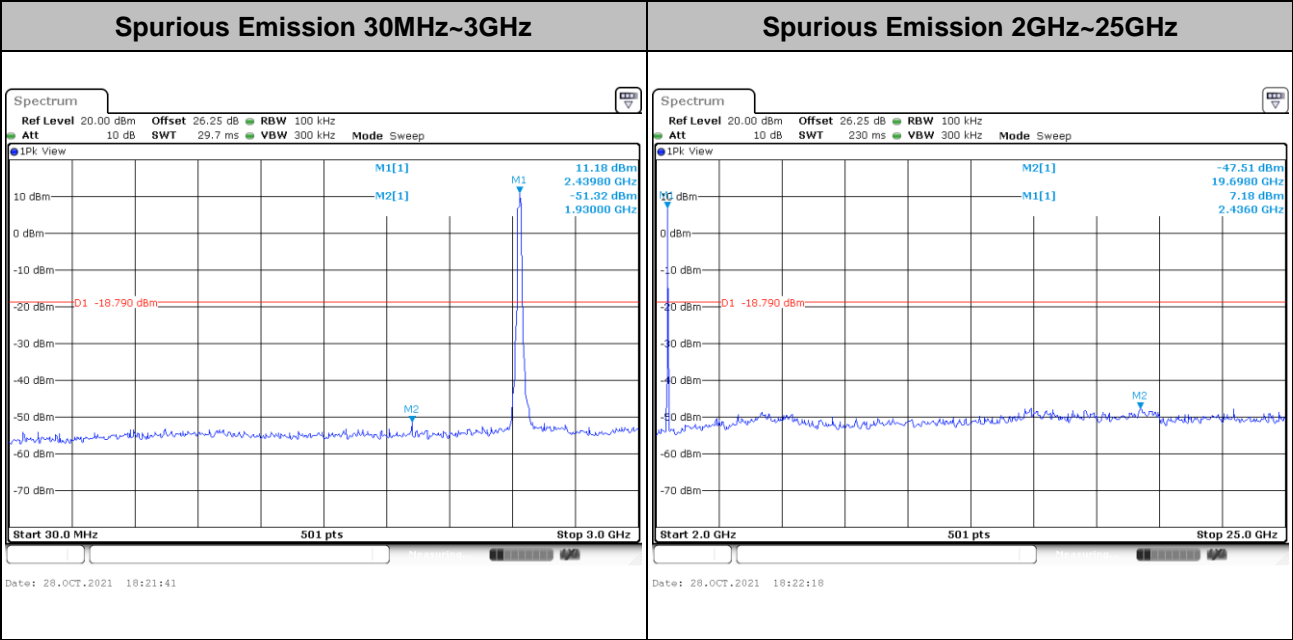
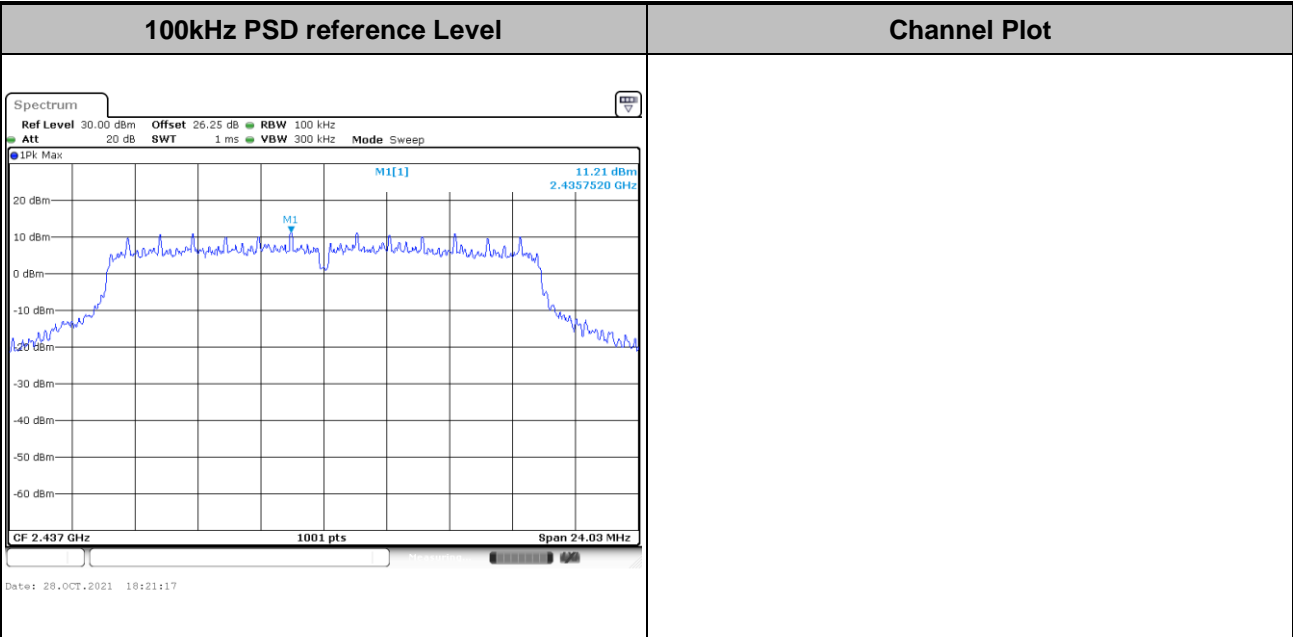


Test Mode :	802.11g	Test Channel :	01
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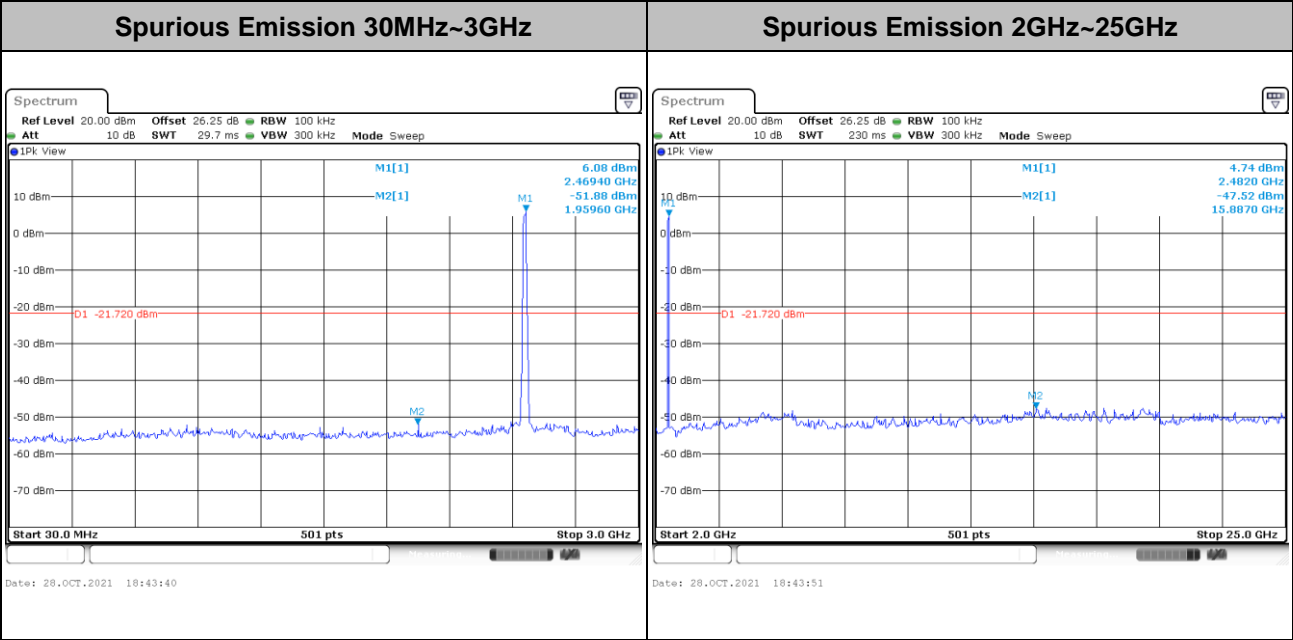
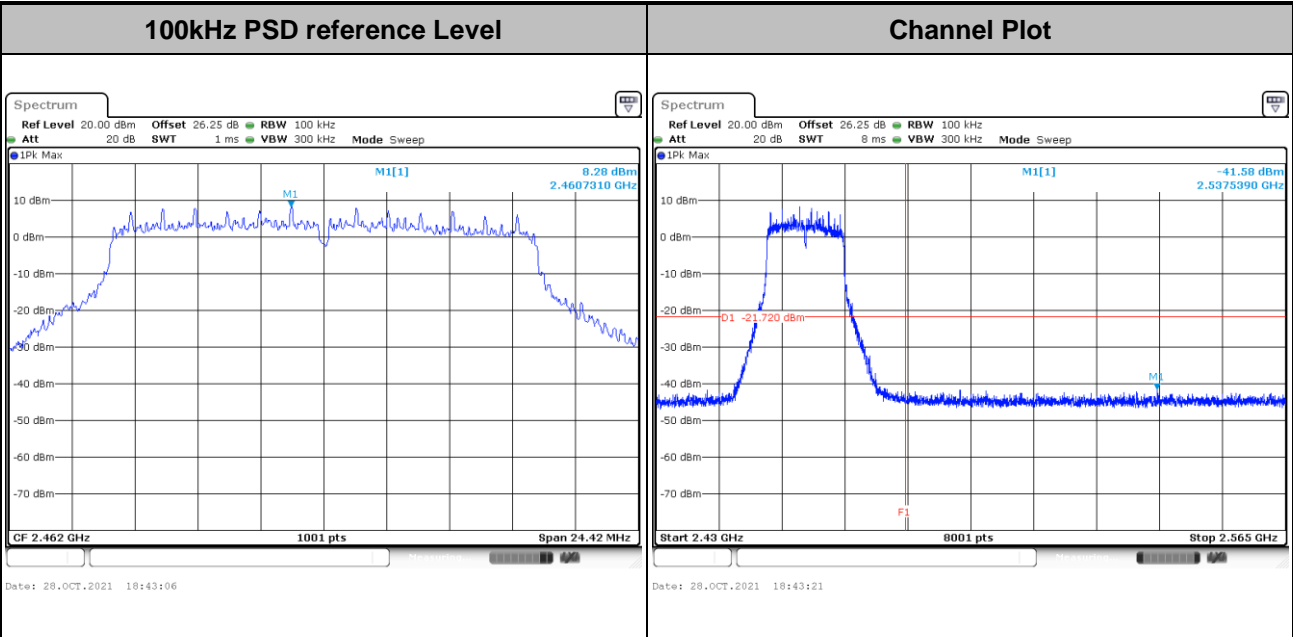


Test Mode :	802.11g	Test Channel :	06
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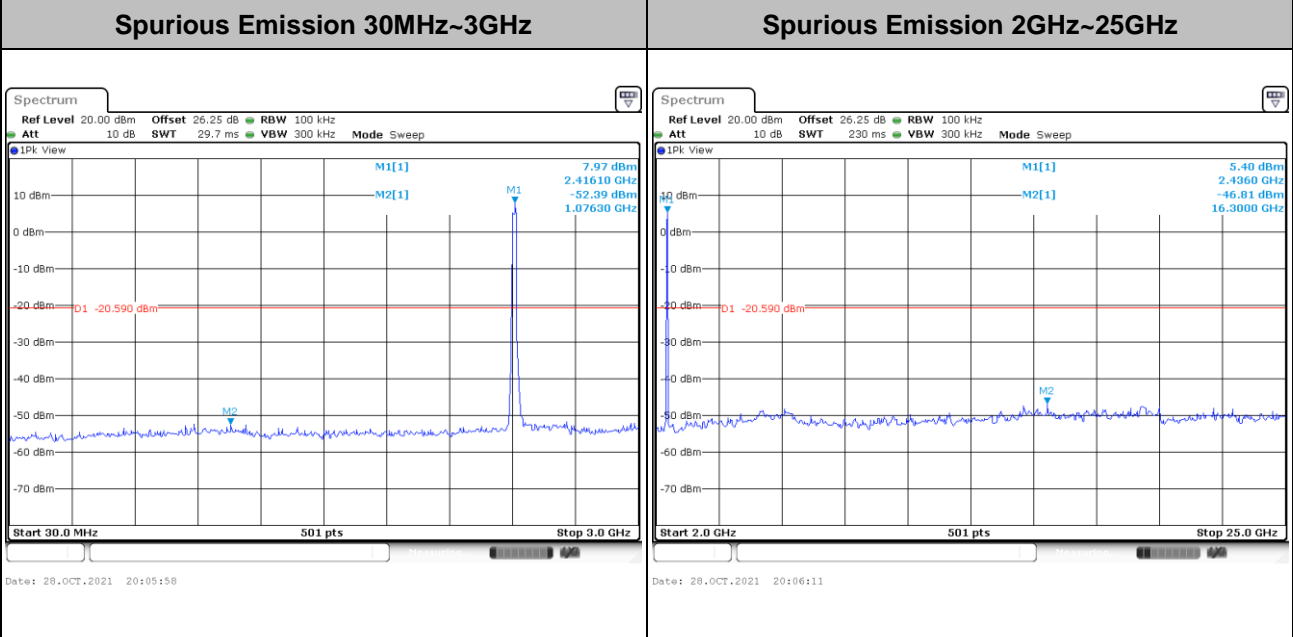
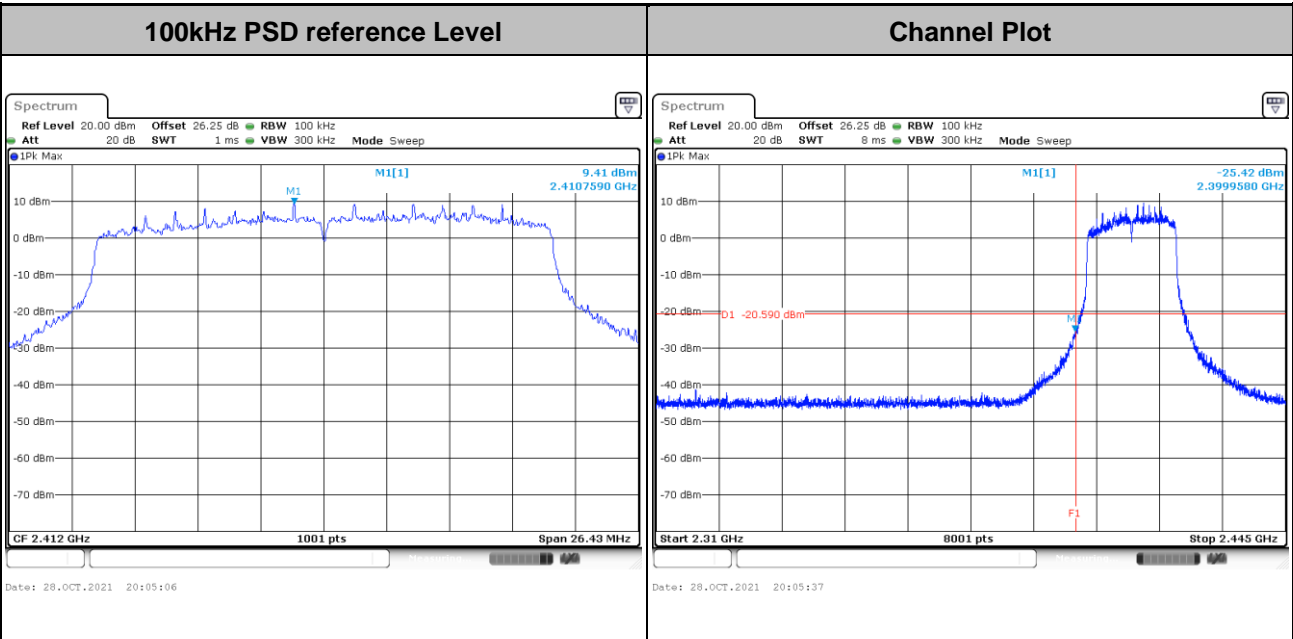


Test Mode :	802.11g	Test Channel :	11
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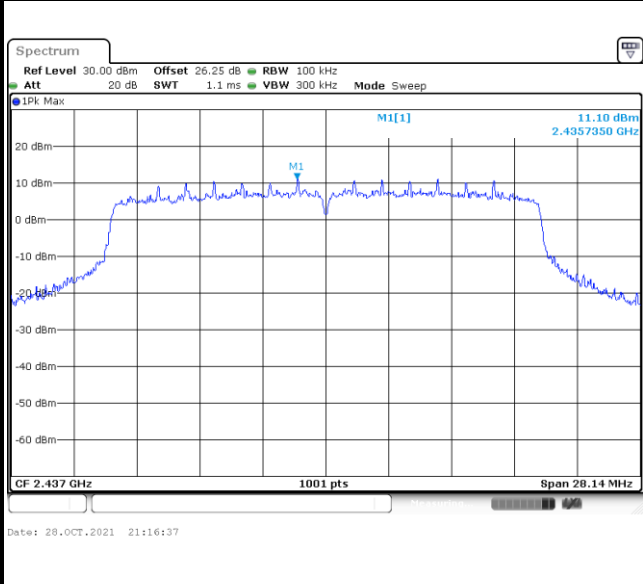
Test Mode :	802.11ax HE20	Test Channel :	01 Full RU
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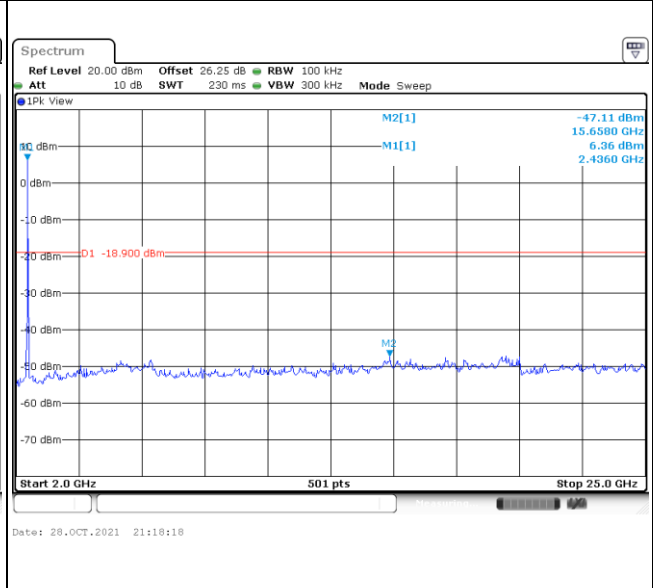
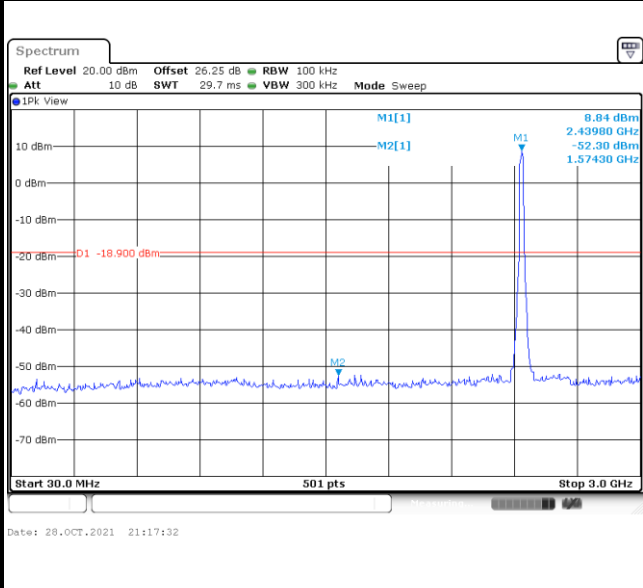


Test Mode :	802.11ax HE20	Test Channel :	06 Full RU
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100kHz PSD reference Level	Channel Plot
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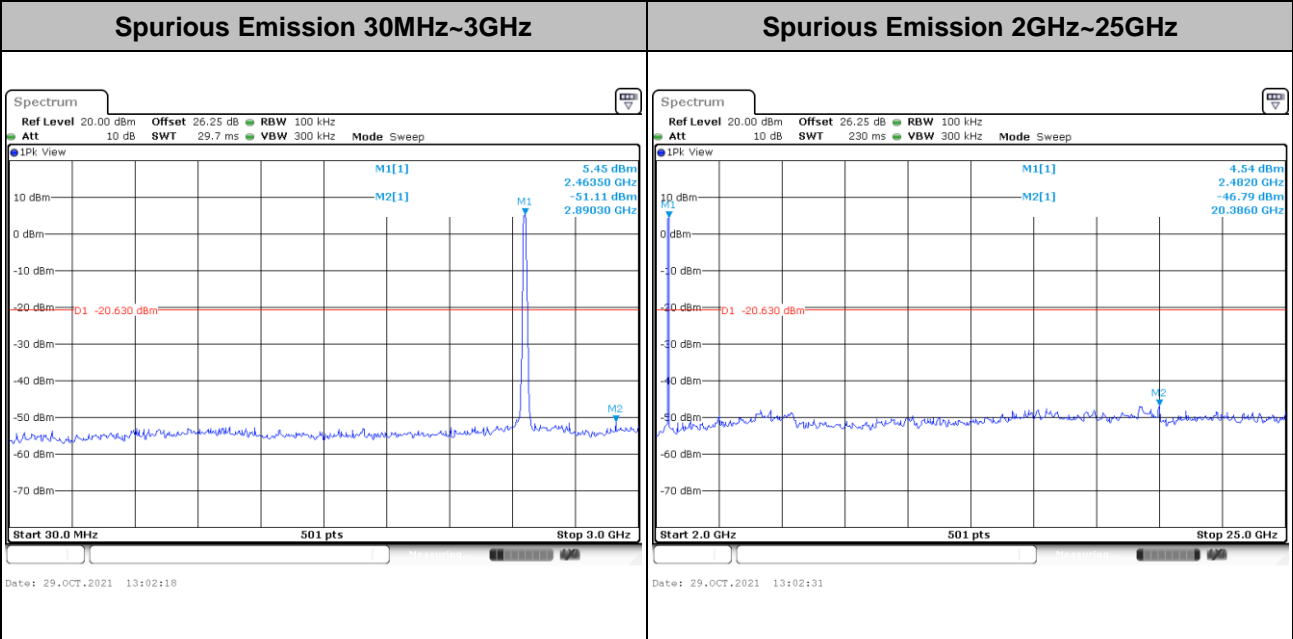
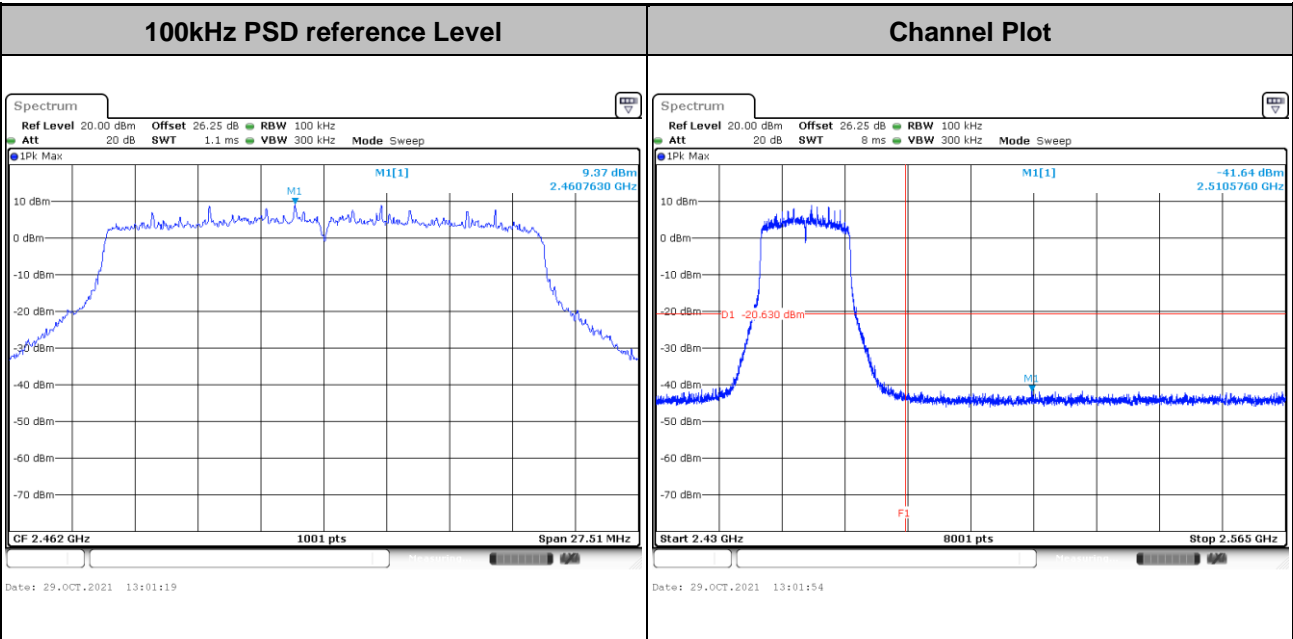


Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
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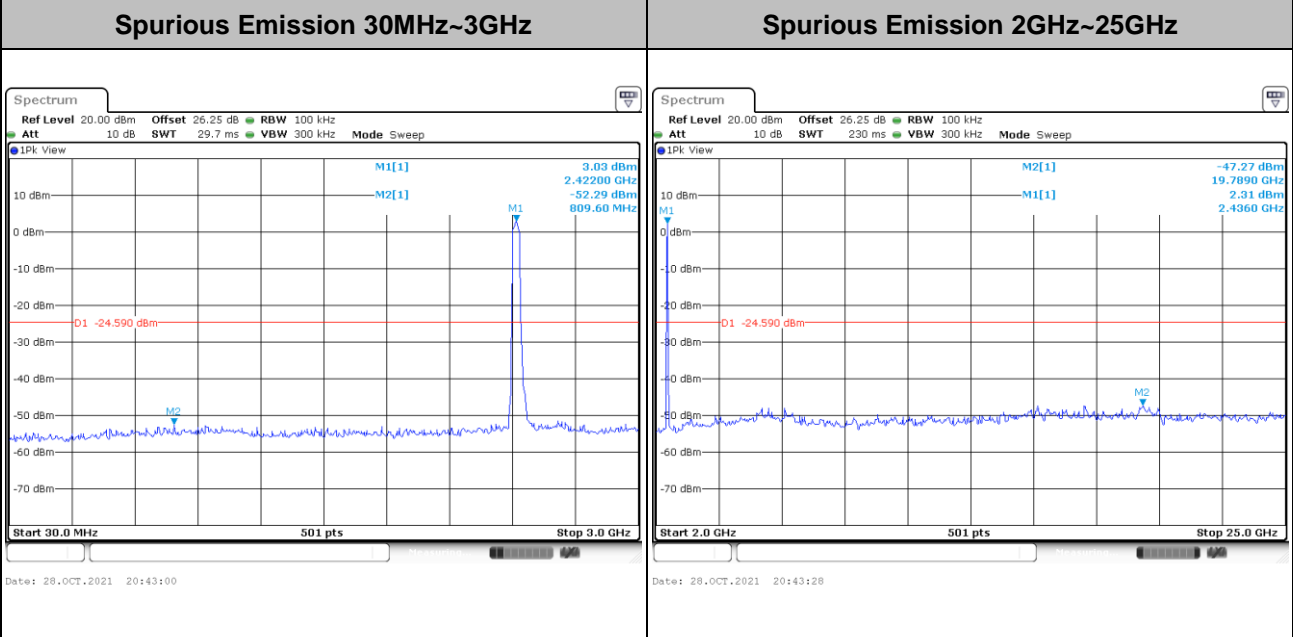
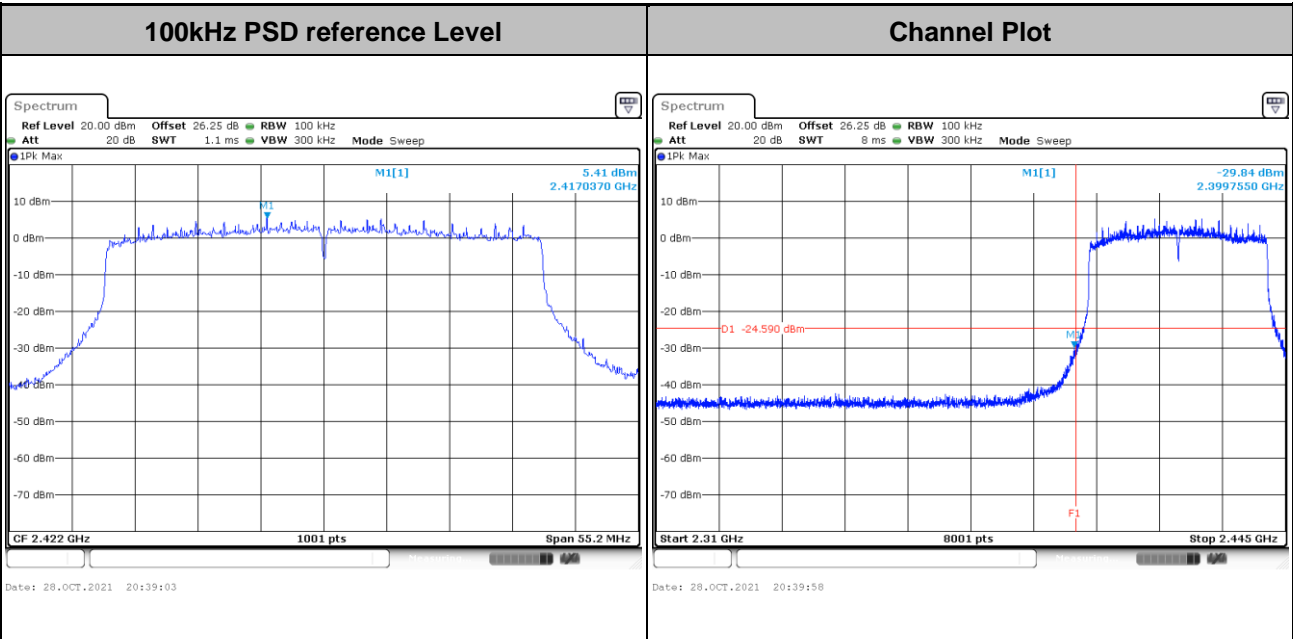


Test Mode : 802.11ax HE20	Test Channel : 11 Full RU
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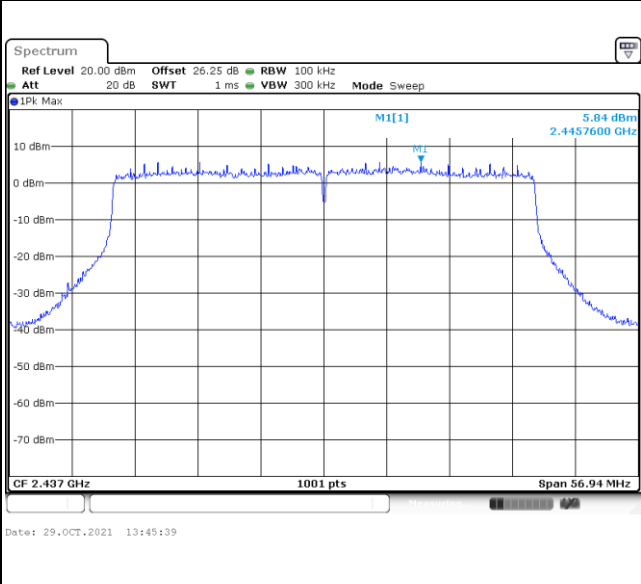
Test Mode :	802.11ax HE40	Test Channel :	03 Full RU
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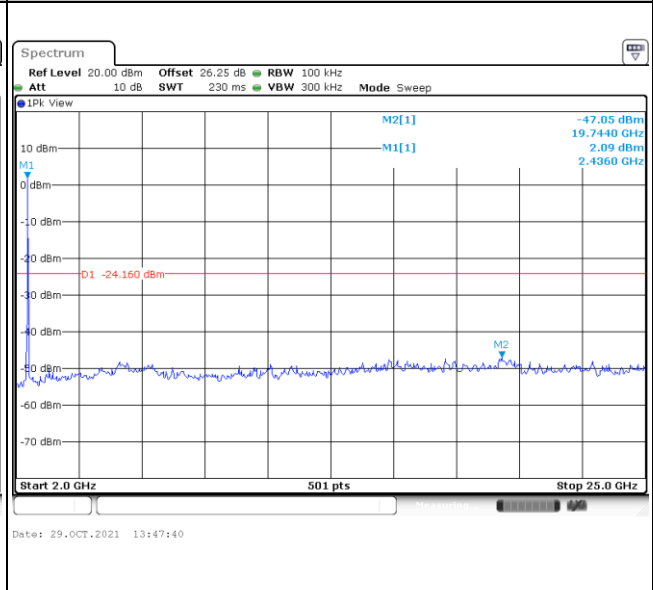
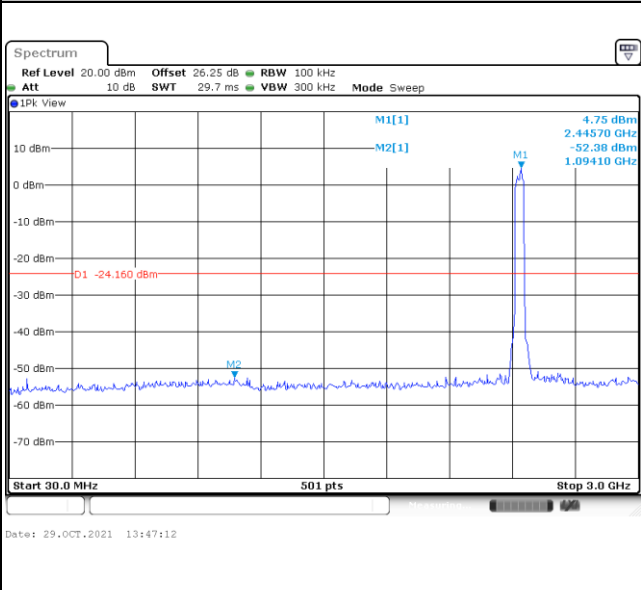


Test Mode :	802.11ax HE40	Test Channel :	06 Full RU
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100kHz PSD reference Level	Channel Plot
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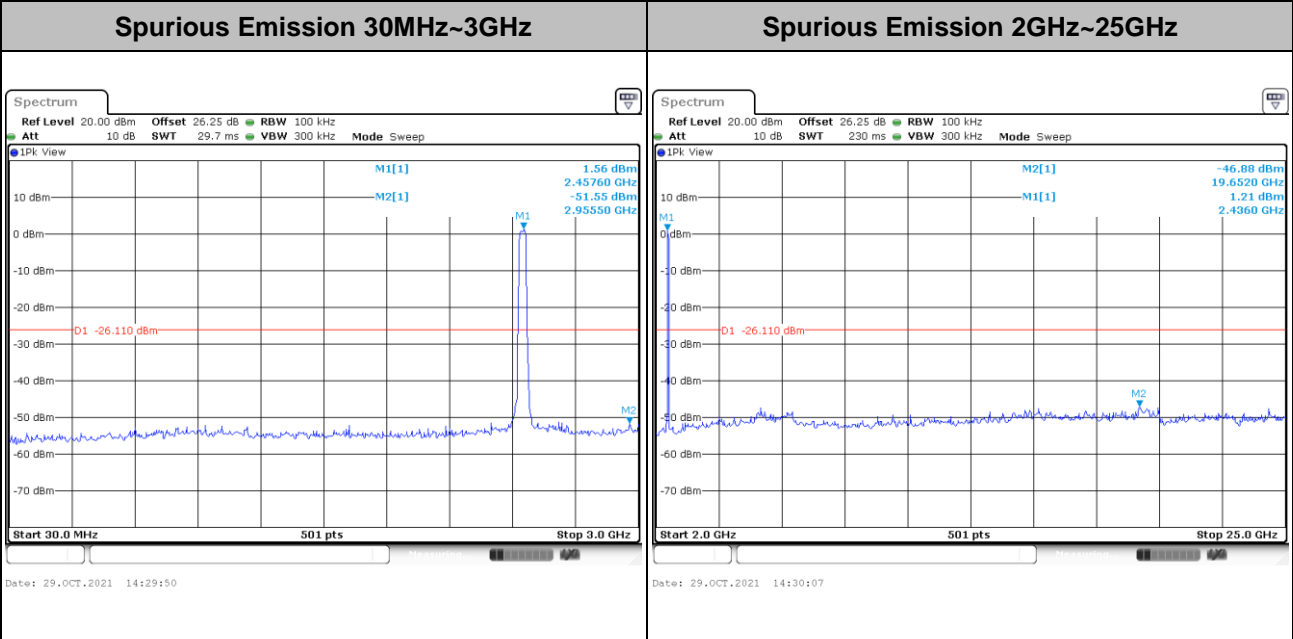
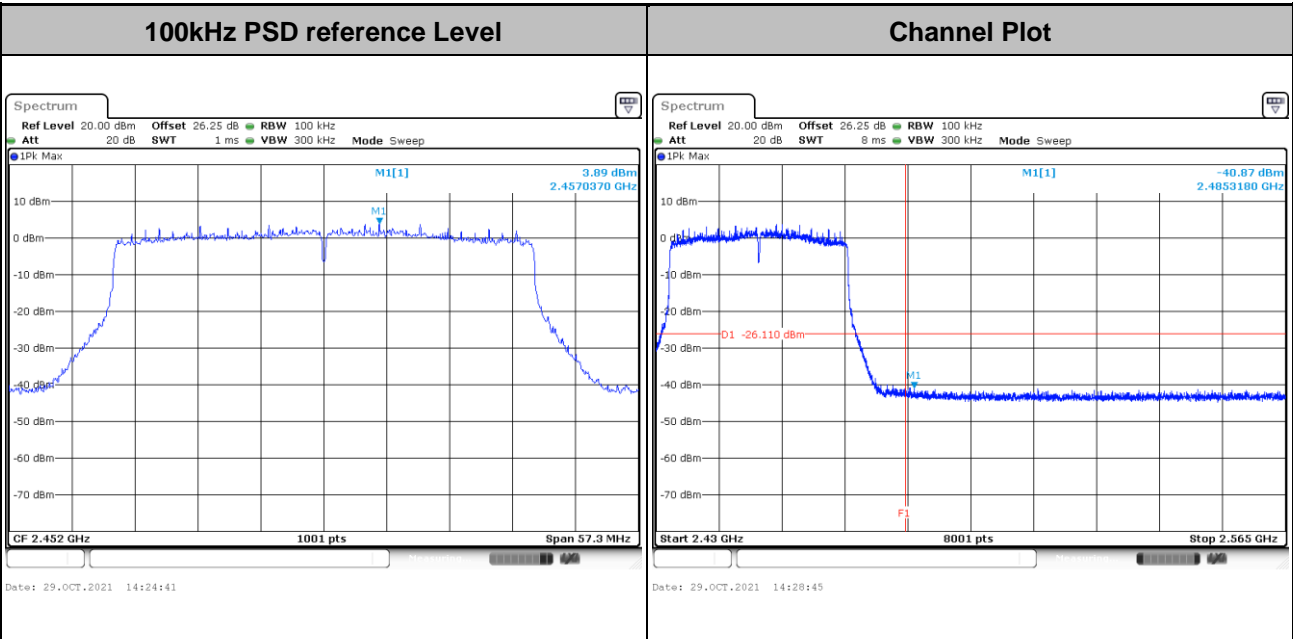


Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
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Test Mode :	802.11ax HE40	Test Channel :	09 Full RU
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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

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

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

3.5.2 Measuring Instruments

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

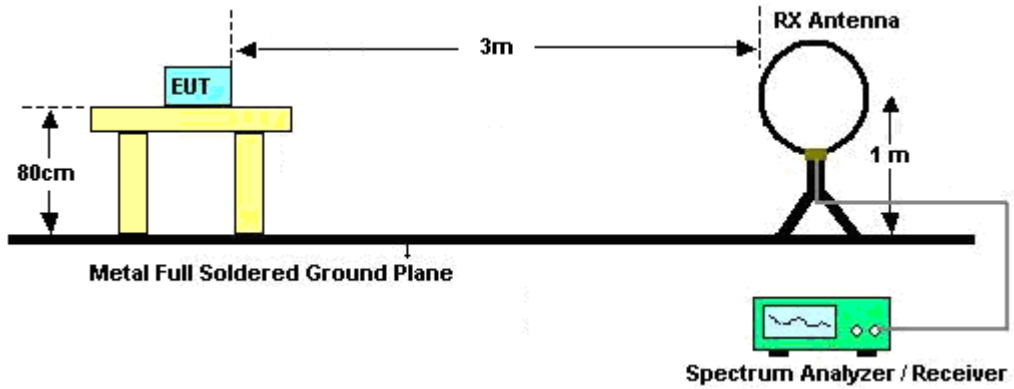


3.5.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-“.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-“.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; $VBW \geq RBW$; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW = 3 MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - $VBW = 10$ Hz, when duty cycle is no less than 98 percent.
 - $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

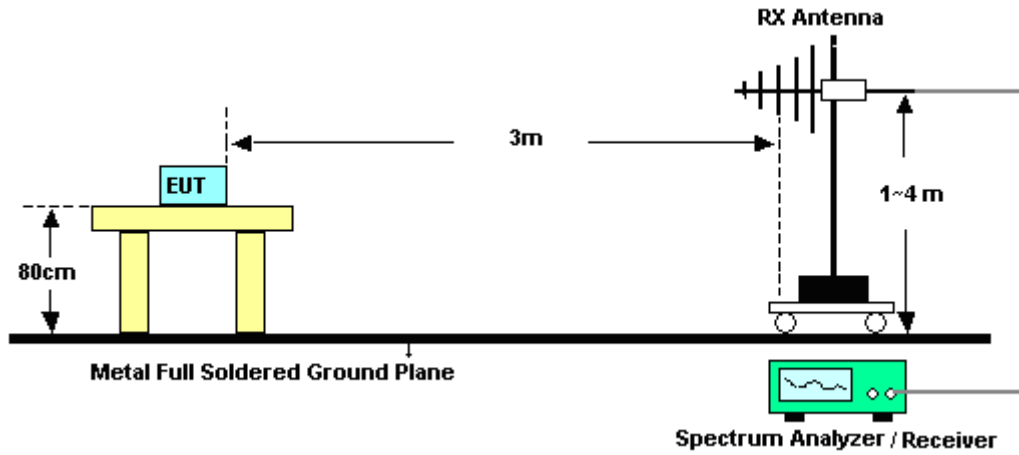
3.5.4 Test Setup

For radiated emissions below 30MHz



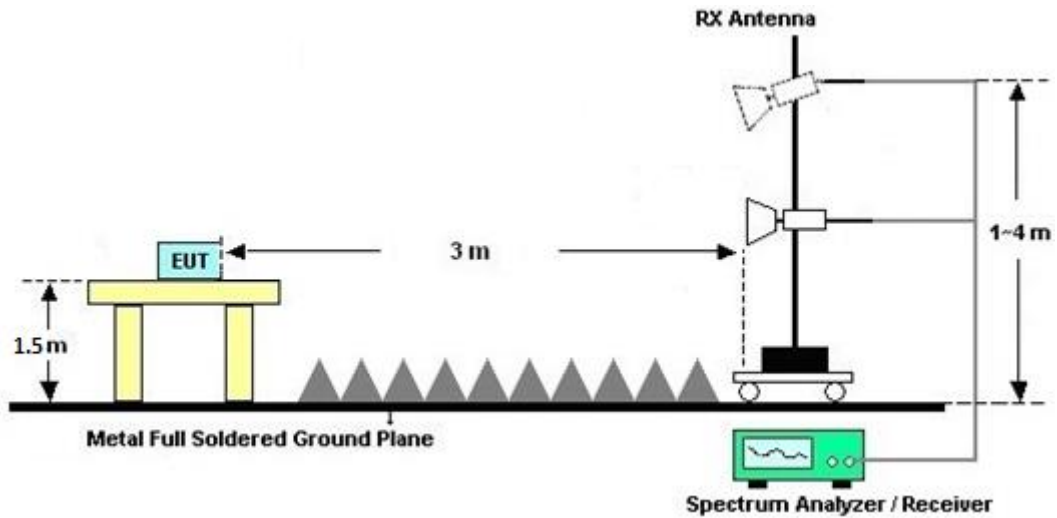
For radiated emissions from 30MHz to 1GHz

<CDD Mode>



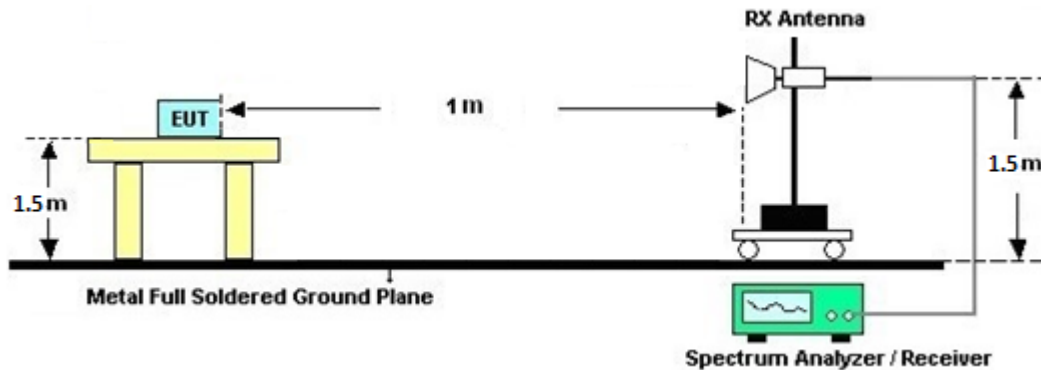
For radiated test

<CDD Mode>



For radiated test above 18GHz

<CDD Mode>



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

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 (30 MHz ~ 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 = 9 kHz) 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

If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. 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.

3.7.3 Antenna Gain

The device is the special case of a MIMO system with four outputs driving a cross-polarized pair of linearly polarized antennas (noted as “vertical” and “horizontal”).

Refer to KDB 662911 D01 v02r01 F)2)c) for a system in which the antennas have fixed orientations relative to one another that ensure that the antennas are cross-polarized regardless of any user actions, the directional gain is computed as follows.

The total gain—including array gain—is computed separately for each of the two polarizations using the procedures presented in KDB 662911 D01 v02r01. The highest of the total gains shall apply.

<CDD Modes>

For power measurements on IEEE 802.11 devices,

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

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 follows F)2)f)i) of KDB 662911 D01

Directional gain = $G_{ANT\ MAX} + 10 \log(N_{ANT}/N_{SS})$ dBi, where N_{SS} = the number of independent spatial streams of data and $G_{ANT\ MAX}$ is the gain of the antenna having the highest gain (in dBi).

The directional gain of EUT is listed in the following table.

2.4GHz CDD mode	Ant A Vertical polarization (dBi)	Ant D Vertical polarization (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	2.50	2.50	2.50	5.51	0	0

2.4GHz CDD mode	Ant B Horizontal polarization (dBi)	Ant C Horizontal polarization (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	0.10	0.10	0.10	3.11	0	0

Calculation:

Directional gain of power measurement:

= max. antenna gain + array gain

= max. antenna gain (2.5dBi, 0.1dBi) + 0 = 2.5 dBi

Directional gain of PSD measurement (Horizontal polarization):

= max. antenna gain + array gain

= max. antenna gain (0.1dBi, 0.1dBi)+10*log(2/1) = 3.11dBi

Directional gain of PSD measurement (Vertical polarization):

= max. antenna gain + array gain

= max. antenna gain (2.5dBi, 2.5dBi)+10*log(2/1) = 5.51dBi

Directional gain of PSD measurement:

= max directional gain of Horizontal and Vertical

= max. directional gain (3.11dBi, 5.51dBi) = 5.51 dBi

<TXBF modes>

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For power and PSD measurement, the directional gain calculation follows F)2)e)ii) of KDB 662911 D01 Directional gain = $G_{ANT\ MAX} + 10 \log(N_{ANT}/N_{SS})$ dBi, where N_{SS} = the number of independent spatial streams of data and $G_{ANT\ MAX}$ is the gain of the antenna having the highest gain (in dBi).

The directional gain of EUT is listed in the following table.

2.4GHz BF mode	Ant A Vertical polarization (dBi)	Ant D Vertical polarization (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	2.50	2.50	5.51	5.51	0	0

2.4GHz BF mode	Ant B Horizontal polarization (dBi)	Ant C Horizontal polarization (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	0.10	0.10	3.11	3.11	0	0

Calculation:

Directional gain of power measurement:

= max. antenna gain + array gain

= max. antenna gain (2.5dBi, 0.1dBi) + 0 = 2.5 dBi

Directional gain of PSD measurement (Horizontal polarization):

= max. antenna gain + array gain

= max. antenna gain (0.1dBi, 0.1dBi)+10*log(2/1) = 3.11dBi

Directional gain of PSD measurement (Vertical polarization):

= max. antenna gain + array gain

= max. antenna gain (2.5dBi, 2.5dBi)+10*log(2/1) = 5.51dBi

Directional gain of PSD measurement:

= max directional gain of Horizontal and Vertical

= max. directional gain (3.11dBi, 5.51dBi) = 5.51 dBi



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	R&S	HFH2-Z2E	100840	9kHz~30MHz	Jun. 21, 2021	Aug. 15, 2021~ Nov. 29, 2021	Jun. 20, 2022	Radiation (03CH02-CA)
Bilog Antenna	TESEQ	6111D	50392	30MHz~1GHz	Aug. 10, 2021	Aug. 15, 2021~ Nov. 29, 2021	Aug. 09, 2022	Radiation (03CH02-CA)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	02113	1GHz~18GHz	Jul. 08, 2021	Aug. 15, 2021~ Nov. 29, 2021	Jul. 07, 2022	Radiation (03CH02-CA)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	01895	1GHz~18GHz	Aug. 25, 2021	Aug. 26, 2021~ Nov. 29, 2021	Aug. 24, 2022	Radiation (03CH02-CA)
Horn Antenna	SCHWARZBE CK	BBHA 9170D	00842	18GHz~40GHz	Jul. 20, 2021	Aug. 15, 2021~ Nov. 29, 2021	Jul. 19, 2022	Radiation (03CH02-CA)
Amplifier	SONOMA	310N	372240	N/A	Aug. 09, 2021	Aug. 15, 2021~ Nov. 29, 2021	Aug. 08, 2022	Radiation (03CH02-CA)
Preamplifier	Keysight	83017A	MY53270323	1GHz~26.5GHz	Jul. 27, 2021	Aug. 15, 2021~ Nov. 29, 2021	Jul. 26, 2022	Radiation (03CH02-CA)
Preamplifier	E-instrument	ERA-100M-18G- 56-01-A70	EC1900251	1GHz~18GHz	Mar. 30, 2021	Aug. 15, 2021~ Nov. 29, 2021	Mar. 29, 2022	Radiation (03CH02-CA)
Preamplifier	Jet-Power	JPA0118-55-303	17100018000 55004	1GHz~18GHz	Jul. 21, 2021	Aug. 15, 2021~ Nov. 29, 2021	Jul. 20, 2022	Radiation (03CH02-CA)
Preamplifier	EMEC	EMC18G40G	60725	18GHz-40GHz	Jul. 21, 2021	Aug. 15, 2021~ Nov. 29, 2021	Jul. 20, 2022	Radiation (03CH02-CA)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz~44GHz	Mar. 05, 2021	Aug. 15, 2021~ Nov. 29, 2021	Mar. 04, 2022	Radiation (03CH02-CA)
Spectrum Analyzer	Keysight	N9010A	MY57420221	10Hz~44GHz	Sep. 22, 2021	Sep. 23, 2021~ Nov. 29, 2021	Sep. 21, 2022	Radiation (03CH02-CA)
Filter	Wainwright	WHKX12-2700-3 000-18000-60ST	SN10	3G High pass	Jul. 23, 2021	Aug. 15, 2021~ Nov. 29, 2021	Jul. 22, 2022	Radiation (03CH02-CA)
Filter	Wainwright	WLK12-1200-12 72-11000-40SS	SN1	1.2G Low Pass	Jul. 23, 2021	Aug. 15, 2021~ Nov. 29, 2021	Jul. 22, 2022	Radiation (03CH02-CA)
Hygrometer	TESEO	608-H1	45142602	N/A	Aug. 04, 2021	Aug. 15, 2021~ Nov. 29, 2021	Aug. 03, 2022	Radiation (03CH02-CA)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Aug. 15, 2021~ Nov. 29, 2021	N/A	Radiation (03CH02-CA)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Aug. 15, 2021~ Nov. 29, 2021	N/A	Radiation (03CH02-CA)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Aug. 15, 2021~ Nov. 29, 2021	N/A	Radiation (03CH02-CA)
Software	Audix	E3	N/A	N/A	N/A	Aug. 15, 2021~ Nov. 29, 2021	N/A	Radiation (03CH02-CA)
Hygrometer	Testo	608-H1	45142595	N/A	Sep. 03, 2021	Oct. 01, 2021~ Nov. 30, 2021	Sep. 02, 2022	Conducted (TH01-CA)
Power Sensor	EM Electronics Corporation	RPR3006W	RPR6W-1901 026	10MHz-6GHz	Jul. 26, 2021	Oct. 01, 2021~ Nov. 30, 2021	Jul. 25, 2022	Conducted (TH01-CA)
Switch Box & RF Cable	EM Electronics	EMSW26	1090304	N/A	Dec. 30, 2020	Oct. 01, 2021~ Nov. 30, 2021	Dec. 29, 2021	Conducted (TH01-CA)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101089	10Hz-40GHz	Jun. 02, 2021	Oct. 01, 2021~ Nov. 30, 2021	Jun. 01, 2022	Conducted (TH01-CA)
LISN	TESEQ	NNB51	47407	N/A	Jul. 21, 2021	Dec. 17, 2021	Jul. 20, 2022	Conduction (CO01-CA)
EMI Test Receiver	R&S	ESR7	102177	9KHz~7GHz	Jun. 02, 2021	Dec. 17, 2021	Jun. 01, 2022	Conduction (CO01-CA)
Pulse limiter with 10dB attenuation	R&S	VTSD 9561-F N	9561-F- N00412	N/A	Jul. 07, 2021	Dec. 17, 2021	Jul. 06, 2022	Conduction (CO01-CA)
Test Software	R&S	EMC32 V10.30.0	N/A	N/A	N/A	Dec. 17, 2021	N/A	Conduction (CO01-CA)

Appendix A. Test Result of Conducted Test Items

Test Engineer:	LilianaGonzalez and Andy Kao	Temperature:	17.1~22.5	°C
Test Date:	2021/10/1~2022/12/14	Relative Humidity:	32.40~54.80	%

<CDD Mode>

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)				6dB BW (MHz)				6dB BW Limit (MHz)	Pass/Fail
					Ant A	Ant D	Ant B	Ant C	Ant A	Ant D	Ant B	Ant C		
11b	1Mbps	4	1	2412	12.89	13.04	12.79	12.79	8.04	8.04	8.02	8.04	0.50	Pass
11b	1Mbps	4	6	2437	12.84	13.09	13.14	13.09	8.04	8.02	8.06	8.06	0.50	Pass
11b	1Mbps	4	11	2462	13.14	12.99	13.33	13.09	8.06	8.06	8.06	8.06	0.50	Pass
11g	6Mbps	4	1	2412	16.43	16.48	16.43	16.43	15.71	16.32	15.73	15.92	0.50	Pass
11g	6Mbps	4	6	2437	16.58	16.53	16.68	16.63	16.03	16.29	16.29	16.02	0.50	Pass
11g	6Mbps	4	11	2462	16.53	16.38	16.53	16.43	16.30	16.30	16.06	16.28	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band												
Mod.	Data Rate	N	Tx CH	Freq. (MHz)	Average Conducted Power (dBm)					Conducted Power Limit (dBm)	DG (dBi)	Pass /Fail
					Ant A	Ant D	Ant B	Ant C	SUM			
11b	1Mbps	4	1	2412	22.01	21.82	22.00	21.69	27.90	30.00	2.50	Pass
11b	1Mbps	4	6	2437	22.27	22.17	22.36	22.00	28.22	30.00	2.50	Pass
11b	1Mbps	4	11	2462	22.81	22.43	22.64	22.42	28.60	30.00	2.50	Pass
11g	6Mbps	4	1	2412	19.86	19.41	19.23	19.31	25.48	30.00	2.50	Pass
11g	6Mbps	4	6	2437	21.44	21.78	21.61	21.60	27.63	30.00	2.50	Pass
11g	6Mbps	4	11	2462	18.99	18.36	18.62	18.44	24.63	30.00	2.50	Pass
HT20	MCS0	4	1	2412	19.70	19.43	19.67	19.66	25.64	30.00	2.50	Pass
HT20	MCS0	4	6	2437	21.52	21.27	21.43	21.20	27.38	30.00	2.50	Pass
HT20	MCS0	4	11	2462	19.11	18.67	18.81	18.75	24.86	30.00	2.50	Pass
HT40	MCS0	4	3	2422	18.84	18.99	18.76	18.98	24.91	30.00	2.50	Pass
HT40	MCS0	4	6	2437	19.08	18.75	19.02	19.00	24.98	30.00	2.50	Pass
HT40	MCS0	4	9	2452	16.68	16.89	16.90	16.96	22.88	30.00	2.50	Pass
VHT20	MCS0	4	1	2412	19.58	19.47	19.72	19.68	25.63	30.00	2.50	Pass
VHT20	MCS0	4	6	2437	21.40	21.25	21.41	21.20	27.34	30.00	2.50	Pass
VHT20	MCS0	4	11	2462	19.03	18.72	18.85	18.67	24.84	30.00	2.50	Pass
VHT40	MCS0	4	3	2422	18.88	18.96	18.78	18.95	24.91	30.00	2.50	Pass
VHT40	MCS0	4	6	2437	19.09	18.76	18.97	19.02	24.98	30.00	2.50	Pass
VHT40	MCS0	4	9	2452	16.64	16.88	16.97	16.93	22.88	30.00	2.50	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.5 dBi + 0 dB = 2.5 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band												
Mod.	Data Rate	Nrx	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)					DG (dBi)	Peak PSD Limit (dBm/3kHz)	Pass/Fail
					Ant A	Ant D	Ant B	Ant C	SUM			
11b	1Mbps	4	1	2412	0.11	0.43	1.18	-0.73	7.20	5.51	8.00	Pass
11b	1Mbps	4	6	2437	0.24	0.56	0.00	-0.27	6.58	5.51	8.00	Pass
11b	1Mbps	4	11	2462	0.26	0.15	0.12	0.48	6.50	5.51	8.00	Pass
11g	6Mbps	4	1	2412	-6.59	-7.54	-7.36	-6.72	-0.57	5.51	8.00	Pass
11g	6Mbps	4	6	2437	-5.47	-4.45	-4.74	-4.38	1.64	5.51	8.00	Pass
11g	6Mbps	4	11	2462	-6.90	-8.61	-7.86	-7.42	-0.88	5.51	8.00	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.5dBi + 3.01 dB= 5.51dBi

Array Gain = $10 \cdot \log(N_{ant}/N_{ss}) = 10 \cdot \log(2/1) = 3.01 \text{ dB}$; $N_{ant}=2$ and $N_{ss}=1$

Note 3: Sum of PSD = Max(Ant A, Ant B, Ant C, Ant D) + $10 \cdot \log(4)$

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	99% Occupied BW (MHz)				6dB BW (MHz)				6dB BW Limit (MHz)	Pass/Fail
						Ant A	Ant D	Ant B	Ant C	Ant A	Ant D	Ant B	Ant C		
HE20	MCS0	4	1	2412	Full	18.88	18.98	18.88	18.83	17.85	18.60	18.08	17.62	0.50	Pass
HE20	MCS0	4	6	2437	Full	18.93	19.03	19.08	19.03	18.38	18.56	18.76	18.40	0.50	Pass
HE20	MCS0	4	11	2462	Full	18.93	18.88	18.98	18.93	18.42	18.84	18.56	18.34	0.50	Pass
HE40	MCS0	4	3	2422	Full	37.86	37.66	37.76	37.76	37.78	37.80	37.28	36.80	0.50	Pass
HE40	MCS0	4	6	2437	Full	37.66	37.86	37.86	38.06	37.96	37.48	37.48	37.96	0.50	Pass
HE40	MCS0	4	9	2452	Full	37.86	37.96	37.66	37.76	37.24	37.60	37.64	38.20	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)					Conducted Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant A	Ant D	Ant B	Ant C	SUM			
HE20	MCS0	4	1	2412	Full	19.51	19.67	19.68	19.64	25.65	30.00	2.50	Pass
HE20	MCS0	4	6	2437	Full	21.48	21.37	21.43	21.29	27.41	30.00	2.50	Pass
HE20	MCS0	4	11	2462	Full	19.02	18.89	18.91	18.95	24.96	30.00	2.50	Pass
HE40	MCS0	4	3	2422	Full	18.84	19.11	18.81	18.82	24.92	30.00	2.50	Pass
HE40	MCS0	4	6	2437	Full	19.05	18.73	19.07	19.02	24.99	30.00	2.50	Pass
HE40	MCS0	4	9	2452	Full	16.80	16.91	16.88	16.89	22.89	30.00	2.50	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.5 dBi + 0 dB = 2.5 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Peak PSD (dBm/3kHz)					DG (dBi)	Peak PSD Limit (dBm/3kHz)	Pass/Fail
						Ant A	Ant D	Ant B	Ant C	SUM			
HE20	MCS0	4	1	2412	Full	-6.43	-6.75	-6.24	-5.83	0.19	5.51	8.00	Pass
HE20	MCS0	4	6	2437	Full	-4.77	-4.10	-4.19	-4.62	1.92	5.51	8.00	Pass
HE20	MCS0	4	11	2462	Full	-6.19	-6.03	-6.49	-6.27	-0.01	5.51	8.00	Pass
HE40	MCS0	4	3	2422	Full	-8.25	-9.26	-9.68	-8.94	-2.23	5.51	8.00	Pass
HE40	MCS0	4	6	2437	Full	-9.41	-8.88	-9.79	-9.83	-2.86	5.51	8.00	Pass
HE40	MCS0	4	9	2452	Full	-11.00	-9.69	-10.96	-11.68	-3.67	5.51	8.00	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.

Each polarization has 2 antenna

Note 2: Directional Gain = GMAX + Array Gain = 2.5dBi + 3.01 dB = 5.51dBi

Array Gain = $10 \cdot \log(N_{ant}/N_{ss}) = 10 \cdot \log(2/1) = 3.01 \text{ dB}$; $N_{ant}=2$ and $N_{ss}=1$

Note 3: Sum of PSD = Max(Ant A, Ant B, Ant C, Ant D) + $10 \cdot \log(4)$

TEST RESULTS DATA
Average Output Power

2.4GHz Band													
Mod.	Data Rate	N	Tx CH	Freq. (MHz)	RU Config	Average Conducted Power (dBm)					Conducted Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant A	Ant D	Ant B	Ant C	SUM			
HE20	MCS0	4	1	2412	Full	19.51	19.67	19.68	19.64	25.65	30.00	2.50	Pass
HE20	MCS0	4	1	2412	52*4	18.51	18.91	18.53	18.44	24.62	30.00	2.50	Pass
HE20	MCS0	4	1	2412	106*2	18.36	18.75	18.62	18.55	24.59	30.00	2.50	Pass
HE20	MCS0	4	6	2437	Full	21.48	21.37	21.43	21.29	27.41	30.00	2.50	Pass
HE20	MCS0	4	6	2437	52*4	20.59	20.68	20.55	20.36	26.57	30.00	2.50	Pass
HE20	MCS0	4	6	2437	106*2	20.71	20.72	20.50	20.45	26.62	30.00	2.50	Pass
HE20	MCS0	4	11	2462	Full	19.02	18.89	18.91	18.95	24.96	30.00	2.50	Pass
HE20	MCS0	4	11	2462	52*4	18.30	18.39	18.22	18.07	24.27	30.00	2.50	Pass
HE20	MCS0	4	11	2462	106*2	18.32	18.31	18.16	18.12	24.25	30.00	2.50	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.

Each polarization has 2 antenna

Note 2: Directional Gain = $G_{MAX} + \text{Array Gain} = 2.5 \text{ dBi} + 0 \text{ dB} = 2.5 \text{ dBi}$

Array Gain = 0 dBi for Nant <= 4 in CDD mode.

Note 3: Test result of full RU configs are derived from another test report of original granted.

Note 4: The power setting of partial RU increases or decreases in one dB step, whereas the power setting in Full RU are half dB step.

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Peak PSD (dBm/3kHz)					DG (dBi)	Peak PSD Limit (dBm/3kHz)	Pass/Fail
						Ant A	Ant D	Ant B	Ant C	SUM			
HE20	MCS0	4	1	2412	Full	-6.43	-6.75	-6.24	-5.83	0.19	5.51	8.00	Pass
HE20	MCS0	4	1	2412	52*4	-6.02	-5.90	-6.55	-6.07	0.12	5.51	8.00	Pass
HE20	MCS0	4	1	2412	106*2	-6.71	-5.99	-6.58	-6.61	0.03	5.51	8.00	Pass
HE20	MCS0	4	6	2437	Full	-4.77	-4.10	-4.19	-4.62	1.92	5.51	8.00	Pass
HE20	MCS0	4	6	2437	52*4	-4.26	-4.13	-4.62	-4.26	1.89	5.51	8.00	Pass
HE20	MCS0	4	6	2437	106*2	-4.79	-4.66	-4.85	-4.22	1.80	5.51	8.00	Pass
HE20	MCS0	4	11	2462	Full	-6.19	-6.03	-6.49	-6.27	-0.01	5.51	8.00	Pass
HE20	MCS0	4	11	2462	52*4	-6.76	-6.59	-6.28	-6.47	-0.26	5.51	8.00	Pass
HE20	MCS0	4	11	2462	106*2	-6.16	-6.56	-6.56	-6.70	-0.14	5.51	8.00	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.

Each polarization has 2 antenna

Note 2: Directional Gain = $G_{MAX} + \text{Array Gain} = 2.5\text{dBi} + 3.01\text{ dB} = 5.51\text{dBi}$

Array Gain = $10 \cdot \log(\text{Nant}/\text{Nss}) = 10 \cdot \log(2/1) = 3.01\text{ dB}$; Nant=2 and Nss=1

Note 3: Sum of PSD = $\text{Max}(\text{Ant A, Ant B, Ant C, Ant D}) + 10 \cdot \log(4)$

<TXBF Mode>

TEST RESULTS DATA
Average Output Power

2.4GHz Band Beamforming mode												
Mod.	Data Rate	N	TX CH.	Freq. (MHz)	Average Conducted Power (dBm)					Conducted Power Limit (dBm)	DG (dBi)	Pass /Fail
					Ant A	Ant D	Ant B	Ant C	SUM			
HT20	MCS0	4	1	2412	19.70	19.43	19.67	19.66	25.64	30.00	5.51	Pass
HT20	MCS0	4	6	2437	21.52	21.27	21.43	21.20	27.38	30.00	5.51	Pass
HT20	MCS0	4	11	2462	19.11	18.67	18.81	18.75	24.86	30.00	5.51	Pass
HT40	MCS0	4	3	2422	18.84	18.99	18.76	18.98	24.91	30.00	5.51	Pass
HT40	MCS0	4	6	2437	19.08	18.75	19.02	19.00	24.98	30.00	5.51	Pass
HT40	MCS0	4	9	2452	16.68	16.89	16.90	16.96	22.88	30.00	5.51	Pass
VHT20	MCS0	4	1	2412	19.58	19.47	19.72	19.68	25.63	30.00	5.51	Pass
VHT20	MCS0	4	6	2437	21.40	21.25	21.41	21.20	27.34	30.00	5.51	Pass
VHT20	MCS0	4	11	2462	19.03	18.72	18.85	18.67	24.84	30.00	5.51	Pass
VHT40	MCS0	4	3	2422	18.88	18.96	18.78	18.95	24.91	30.00	5.51	Pass
VHT40	MCS0	4	6	2437	19.09	18.76	18.97	19.02	24.98	30.00	5.51	Pass
VHT40	MCS0	4	9	2452	16.64	16.88	16.97	16.93	22.88	30.00	5.51	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.5 dBi + 3.01 dB = 5.51 dBi

Array Gain = $10 \cdot \log(N_{ant}/N_{ss}) = 10 \cdot \log(2/1) = 3.01 \text{ dB}$; $N_{ant}=2$ and $N_{ss}=1$

TEST RESULTS DATA
Average Output Power

2.4GHz Band Beamforming mode													
Mod.	Data Rate	N _{TX}	CH	Freq. (MHz)	RU Config	Average Conducted Power (dBm)					Conducted Power Limit (dBm)	DG (dBi)	Pass /Fail
						Ant A	Ant D	Ant B	Ant C	SUM			
HE20	MCS0	4	1	2412	Full	19.51	19.67	19.68	19.64	25.65	30.00	5.51	Pass
HE20	MCS0	4	6	2437	Full	21.48	21.37	21.43	21.29	27.41	30.00	5.51	Pass
HE20	MCS0	4	11	2462	Full	19.02	18.89	18.91	18.95	24.96	30.00	5.51	Pass
HE40	MCS0	4	3	2422	Full	18.84	19.11	18.81	18.82	24.92	30.00	5.51	Pass
HE40	MCS0	4	6	2437	Full	19.05	18.73	19.07	19.02	24.99	30.00	5.51	Pass
HE40	MCS0	4	9	2452	Full	16.80	16.91	16.88	16.89	22.89	30.00	5.51	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.5 dBi + 3.01 dB = 5.51 dBi
Array Gain = $10 \cdot \log(N_{ant}/N_{ss}) = 10 \cdot \log(2/1) = 3.01 \text{ dB}$; $N_{ant}=2$ and $N_{ss}=1$

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band Beamforming mode													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Peak PSD (dBm/3kHz)					DG (dBi)	Peak PSD Limit (dBm/3kHz)	Pass/Fail
						Ant A	Ant D	Ant B	Ant C	SUM			
HE20	MCS0	4	1	2412	Full	-6.43	-6.75	-6.24	-5.83	0.19	5.51	8.00	Pass
HE20	MCS0	4	6	2437	Full	-4.77	-4.10	-4.19	-4.62	1.92	5.51	8.00	Pass
HE20	MCS0	4	11	2462	Full	-6.19	-6.03	-6.49	-6.27	-0.01	5.51	8.00	Pass
HE40	MCS0	4	3	2422	Full	-8.25	-9.26	-9.68	-8.94	-2.23	5.51	8.00	Pass
HE40	MCS0	4	6	2437	Full	-9.41	-8.88	-9.79	-9.83	-2.86	5.51	8.00	Pass
HE40	MCS0	4	9	2452	Full	-11.00	-9.69	-10.96	-11.68	-3.67	5.51	8.00	Pass

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.

Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.5dBi + 3.01 dB= 5.51dBi

Array Gain = $10 \cdot \log(\text{Nant}/\text{Nss}) = 10 \cdot \log(2/1) = 3.01 \text{ dB}$; Nant=2 and Nss=1

Note 3: Sum of PSD = Max(Ant A, Ant B, Ant C, Ant D) + $10 \cdot \log(4)$



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Horn Antenna	SCHWARZBECK	BBHA 9120D	02113	1GHz~18GHz	Jun. 22, 2022	Jan. 13, 2023	Jun. 21, 2023	Radiation (03CH02-CA)
Preamplifier	Keysight	83017A	MY53270323	1GHz~26.5GHz	May 11, 2022	Jan. 13, 2023	May 10, 2023	Radiation (03CH02-CA)
RF Cable	HUBER+SUHNER	SUCOFLEX 102	8024032/2, 802406/2, 802875/2	N/A	Jun. 22, 2022	Jan. 13, 2023	Jun. 21, 2023	Radiation (03CH02-CA)
Hygrometer	TESEO	608-H1	45142602	N/A	Sep. 12, 2022	Jan. 13, 2023	Sep. 11, 2023	Radiation (03CH02-CA)
Controller	ChainTek	EM-1000	060876	NA	N/A	Jan. 13, 2023	N/A	Radiation (03CH02-CA)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jan. 13, 2023	N/A	Radiation (03CH02-CA)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jan. 13, 2023	N/A	Radiation (03CH02-CA)
Software	Audix	E3	N/A	N/A	N/A	Jan. 13, 2023	N/A	Radiation (03CH02-CA)
Hygrometer	Testo	608-H1	45141354	N/A	Jul. 27, 2022	Dec. 01, 2022~ Dec. 14, 2022	Jul. 26, 2023	Conducted (TH01-CA)
USB Power Meter	EM Electronics Corporation	RPR3006W #010	RPR6W-2101003	10MHz-8GHz	May 04, 2022	Dec. 01, 2022~ Dec. 14, 2022	May 03, 2023	Conducted (TH01-CA)
Switch Box & RF Cable	EM Electronics	EMSW26	1090304	N/A	Mar. 30, 2022	Dec. 01, 2022~ Dec. 04, 2022	Mar. 29, 2023	Conducted (TH01-CA)
Switch Box & RF Cable	EM Electronics	EMSW26	1090304	N/A	Dec. 05, 2022	Dec. 05, 2022~ Dec. 14, 2022	Dec. 04, 2023	Conducted (TH01-CA)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101089	10Hz-40GHz	Jun. 01, 2022	Dec. 01, 2022~ Dec. 14, 2022	May 31, 2023	Conducted (TH01-CA)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.0 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.2 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.5 dB
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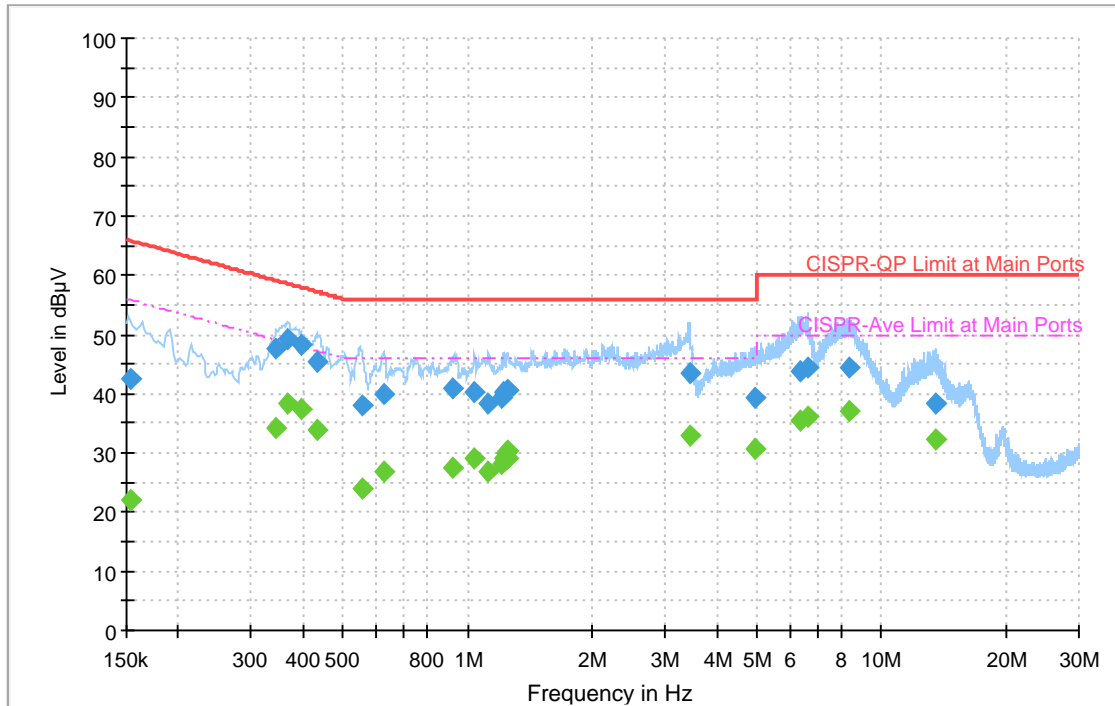
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Paul Lin	Temperature :	18~21°C
		Relative Humidity :	42~45%

EUT Information

Test Site Location : CO01-CA
 Power: 120Vac/60Hz
 Mode: 1
 Type: Line

Full Spectrum



Final Result

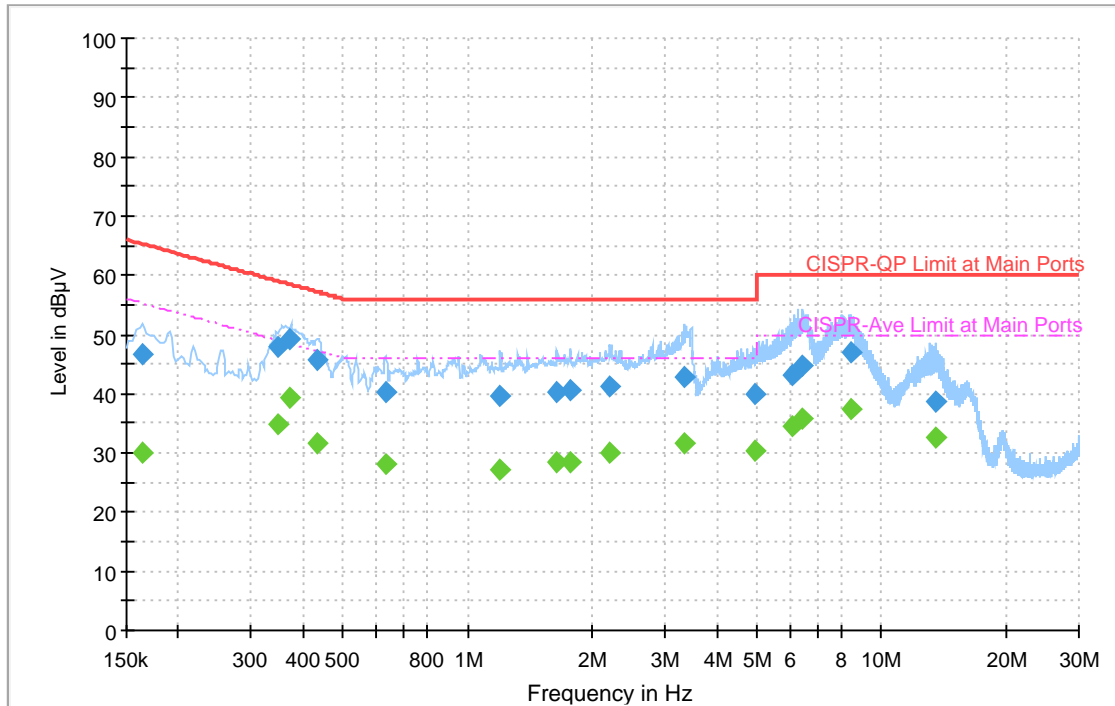
Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152842	---	22.07	55.84	33.77	L1	OFF	20.3
0.152842	42.47	---	65.84	23.37	L1	OFF	20.3
0.344679	---	34.08	49.09	15.01	L1	OFF	20.3
0.344679	47.68	---	59.09	11.41	L1	OFF	20.3
0.368988	---	38.28	48.52	10.24	L1	OFF	20.3
0.368988	49.25	---	58.52	9.27	L1	OFF	20.3
0.395673	---	37.35	47.94	10.59	L1	OFF	20.3
0.395673	48.33	---	57.94	9.61	L1	OFF	20.3
0.431682	---	33.88	47.22	13.34	L1	OFF	20.3
0.431682	45.30	---	57.22	11.92	L1	OFF	20.3
0.554001	---	24.08	46.00	21.92	L1	OFF	20.3
0.554001	37.99	---	56.00	18.01	L1	OFF	20.3
0.624975	---	26.87	46.00	19.13	L1	OFF	20.3
0.624975	39.81	---	56.00	16.19	L1	OFF	20.3
0.921750	---	27.42	46.00	18.58	L1	OFF	20.3
0.921750	40.99	---	56.00	15.01	L1	OFF	20.3
1.037688	---	29.05	46.00	16.95	L1	OFF	20.3
1.037688	40.23	---	56.00	15.77	L1	OFF	20.3
1.120443	---	26.86	46.00	19.14	L1	OFF	20.3
1.120443	38.19	---	56.00	17.81	L1	OFF	20.3
1.212459	---	28.21	46.00	17.79	L1	OFF	20.3

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
1.212459	39.44	---	56.00	16.56	L1	OFF	20.3
1.226589	---	28.92	46.00	17.08	L1	OFF	20.3
1.226589	40.12	---	56.00	15.88	L1	OFF	20.3
1.236498	---	29.92	46.00	16.08	L1	OFF	20.3
1.236498	40.32	---	56.00	15.68	L1	OFF	20.3
1.244814	---	30.43	46.00	15.57	L1	OFF	20.3
1.244814	40.65	---	56.00	15.35	L1	OFF	20.3
1.244904	---	29.20	46.00	16.80	L1	OFF	20.3
1.244904	40.50	---	56.00	15.50	L1	OFF	20.3
3.431787	---	32.95	46.00	13.05	L1	OFF	20.4
3.431787	43.40	---	56.00	12.60	L1	OFF	20.4
4.930359	---	30.75	46.00	15.25	L1	OFF	20.4
4.930359	39.17	---	56.00	16.83	L1	OFF	20.4
6.328041	---	35.54	50.00	14.46	L1	OFF	20.4
6.328041	43.91	---	60.00	16.09	L1	OFF	20.4
6.612828	---	36.14	50.00	13.86	L1	OFF	20.4
6.612828	44.35	---	60.00	15.65	L1	OFF	20.4
8.328966	---	36.93	50.00	13.07	L1	OFF	20.5
8.328966	44.33	---	60.00	15.67	L1	OFF	20.5
13.504650	---	32.27	50.00	17.73	L1	OFF	20.5
13.504650	38.47	---	60.00	21.53	L1	OFF	20.5

EUT Information

Test Site Location : CO01-CA
 Power: 120Vac/60Hz
 Mode: 1
 Type: Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.164013	---	30.02	55.26	25.24	N	OFF	20.2
0.164013	46.57	---	65.26	18.69	N	OFF	20.2
0.346686	---	34.68	49.04	14.36	N	OFF	20.3
0.346686	47.93	---	59.04	11.11	N	OFF	20.3
0.371220	---	39.19	48.47	9.28	N	OFF	20.3
0.371220	49.18	---	58.47	9.29	N	OFF	20.3
0.431466	---	31.61	47.22	15.61	N	OFF	20.3
0.431466	45.58	---	57.22	11.64	N	OFF	20.3
0.634965	---	28.24	46.00	17.76	N	OFF	20.3
0.634965	40.28	---	56.00	15.72	N	OFF	20.3
1.201767	---	27.19	46.00	18.81	N	OFF	20.3
1.201767	39.64	---	56.00	16.36	N	OFF	20.3
1.643937	---	28.28	46.00	17.72	N	OFF	20.3
1.643937	40.41	---	56.00	15.59	N	OFF	20.3
1.769316	---	28.56	46.00	17.44	N	OFF	20.3
1.769316	40.70	---	56.00	15.30	N	OFF	20.3
2.210307	---	29.92	46.00	16.08	N	OFF	20.3
2.210307	41.21	---	56.00	14.79	N	OFF	20.3
3.341571	---	31.60	46.00	14.40	N	OFF	20.3
3.341571	42.83	---	56.00	13.17	N	OFF	20.3
4.944102	---	30.33	46.00	15.67	N	OFF	20.4

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
4.944102	39.82	---	56.00	16.18	N	OFF	20.4
6.084978	---	34.41	50.00	15.59	N	OFF	20.4
6.084978	43.29	---	60.00	16.71	N	OFF	20.4
6.428850	---	35.93	50.00	14.07	N	OFF	20.4
6.428850	44.78	---	60.00	15.22	N	OFF	20.4
8.447487	---	37.29	50.00	12.71	N	OFF	20.4
8.447487	46.85	---	60.00	13.15	N	OFF	20.4
13.513740	---	32.58	50.00	17.42	N	OFF	20.5
13.513740	38.75	---	60.00	21.25	N	OFF	20.5



Appendix C. Radiated Spurious Emission

Test Engineer :	Michael Bui and Daniel Lee	Temperature :	20~24°C
		Relative Humidity :	41.1~48%

<CDD Mode>

MIMO <Ant. A+D+B+C>

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

WIFI	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11b CH 01 2412MHz		2388.645	57.1	-16.9	74	43.13	27.7	17.55	31.28	100	298	P	H	
		2388.855	48.92	-5.08	54	34.95	27.7	17.55	31.28	100	298	A	H	
	*	2412	121.21	-	-	107.31	27.58	17.59	31.27	100	298	P	H	
	*	2412	118.09	-	-	104.19	27.58	17.59	31.27	100	298	A	H	
			2352.84	56.62	-17.38	74	42.48	27.96	17.48	31.3	100	323	P	V
			2389.8	47.57	-6.43	54	33.25	28.05	17.55	31.28	100	323	A	V
	*		2412	121.03	-	-	106.85	27.86	17.59	31.27	100	323	P	V
	*		2412	118.16	-	-	103.98	27.86	17.59	31.27	100	323	A	V
802.11b CH 06 2437MHz		2388.6	56.23	-17.77	74	42.26	27.7	17.55	31.28	100	285	P	H	
		2337.75	46.79	-7.21	54	32.64	28.01	17.45	31.31	100	285	A	H	
	*	2437	121.03	-	-	107.14	27.51	17.64	31.26	100	285	P	H	
	*	2437	118.07	-	-	104.18	27.51	17.64	31.26	100	285	A	H	
			2483.68	56.21	-17.79	74	42.22	27.48	17.75	31.24	100	285	P	H
			2483.92	47.46	-6.54	54	33.47	27.48	17.75	31.24	100	285	A	H
			2356.95	55.7	-18.3	74	41.53	27.98	17.49	31.3	136	309	P	V
			2389.05	46.84	-7.16	54	32.52	28.05	17.55	31.28	136	309	A	V
	*		2437	121.54	-	-	107.45	27.71	17.64	31.26	136	309	P	V
	*		2437	118.33	-	-	104.24	27.71	17.64	31.26	136	309	A	V
			2484.56	56.13	-17.87	74	42.1	27.52	17.75	31.24	136	309	P	V
			2484	47	-7	54	32.97	27.52	17.75	31.24	136	309	A	V



WIFI	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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 11 2462MHz	*	2462	121	-	-	107.08	27.47	17.7	31.25	100	301	P	H
	*	2462	118.15	-	-	104.23	27.47	17.7	31.25	100	301	A	H
		2485	59.1	-14.9	74	45.11	27.48	17.75	31.24	100	301	P	H
		2484.8	52.42	-1.58	54	38.43	27.48	17.75	31.24	100	301	A	H
	*	2462	120.8	-	-	106.8	27.55	17.7	31.25	189	327	P	V
	*	2462	117.99	-	-	103.99	27.55	17.7	31.25	189	327	A	V
		2489.52	59.49	-14.51	74	45.45	27.52	17.76	31.24	189	327	P	V
		2484.88	51.42	-2.58	54	37.39	27.52	17.75	31.24	189	327	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11b CH 01 2412MHz		4824	40.02	-33.98	74	65.24	31.45	11.52	68.19	-	-	P	H	
		11355	50.78	-23.22	74	61.22	39.94	17.33	67.71	-	-	P	H	
		11355	42.1	-11.9	54	52.54	39.94	17.33	67.71	-	-	A	H	
		14490	51.87	-22.13	74	57.95	41.76	19.9	67.74	-	-	P	H	
		14490	43.96	-10.04	54	50.04	41.76	19.9	67.74	-	-	A	H	
		17940	60.61	-13.39	74	60.21	46.92	22.9	69.42	-	-	P	H	
		17940	50.01	-3.99	54	49.61	46.92	22.9	69.42	-	-	A	H	
			4824	40.61	-33.39	74	65.81	31.47	11.52	68.19	-	-	P	V
			10890	50.48	-23.52	74	61.42	40.27	16.95	68.16	-	-	P	V
		10890	41.55	-12.45	54	52.49	40.27	16.95	68.16	-	-	A	V	
		14670	51.35	-22.65	74	57.61	41.67	20.02	67.95	-	-	P	V	
		14670	43.97	-10.03	54	50.23	41.67	20.02	67.95	-	-	A	V	
		17940	60.74	-13.26	74	60.61	46.65	22.9	69.42	-	-	P	V	
		17940	50.09	-3.91	54	49.96	46.65	22.9	69.42	-	-	A	V	



WIFI	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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	41.59	-32.41	74	66.69	31.45	11.61	68.16	-	-	P	H	
		7311	43.51	-30.49	74	60.12	36.4	13.81	66.82	-	-	P	H	
		11370	49.76	-24.24	74	60.13	39.99	17.34	67.7	-	-	P	H	
		11370	42.73	-11.27	54	53.1	39.99	17.34	67.7	-	-	A	H	
		14595	51.65	-22.35	74	57.8	41.72	19.98	67.85	-	-	P	H	
		14595	43.55	-10.45	54	49.7	41.72	19.98	67.85	-	-	A	H	
		17985	59.98	-14.02	74	58.4	48.05	22.95	69.42	-	-	P	H	
		17985	50.08	-3.92	54	48.5	48.05	22.95	69.42	-	-	A	H	
			4874	40.6	-33.4	74	65.62	31.53	11.61	68.16	-	-	P	V
			7311	44.07	-29.93	74	60.73	36.35	13.81	66.82	-	-	P	V
			11370	50.19	-23.81	74	60.56	39.99	17.34	67.7	-	-	P	V
			11370	41.53	-12.47	54	51.9	39.99	17.34	67.7	-	-	A	V
			14475	51.71	-22.29	74	58	41.58	19.89	67.76	-	-	P	V
			14475	43.4	-10.6	54	49.69	41.58	19.89	67.76	-	-	A	V
		17970	59.43	-14.57	74	58.59	47.32	22.94	69.42	-	-	P	V	
		17970	49.53	-4.47	54	48.69	47.32	22.94	69.42	-	-	A	V	



WIFI	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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 11 2462MHz		4924	39.09	-34.91	74	64.18	31.46	11.57	68.12	-	-	P	H	
		7386	44.49	-29.51	74	60.96	36.52	13.84	66.83	-	-	P	H	
		11190	50.73	-23.27	74	61.54	39.87	17.18	67.86	-	-	P	H	
		11190	42.31	-11.69	54	53.12	39.87	17.18	67.86	-	-	A	H	
		14520	51.3	-22.7	74	57.37	41.77	19.92	67.76	-	-	P	H	
		14520	42.93	-11.07	54	49	41.77	19.92	67.76	-	-	A	H	
		18000	60.48	-13.52	74	58.5	48.43	22.97	69.42	-	-	P	H	
		18000	50.28	-3.72	54	48.3	48.43	22.97	69.42	-	-	A	H	
			4924	40.05	-33.95	74	65.12	31.48	11.57	68.12	-	-	P	V
			7386	45.14	-28.86	74	61.77	36.36	13.84	66.83	-	-	P	V
			11550	50.5	-23.5	74	60.44	40.18	17.49	67.61	-	-	P	V
			11550	42.17	-11.83	54	52.11	40.18	17.49	67.61	-	-	A	V
			14595	51.6	-22.4	74	57.82	41.65	19.98	67.85	-	-	P	V
			14595	43.21	-10.79	54	49.43	41.65	19.98	67.85	-	-	A	V
		17985	59.9	-14.1	74	58.71	47.66	22.95	69.42	-	-	P	V	
		17985	49.8	-4.2	54	48.61	47.66	22.95	69.42	-	-	A	V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only. The emission level close to 18GHz is checked that the average emission level is noise floor only. 													



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

WIFI	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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		2390	62.16	-11.84	74	48.2	27.69	17.55	31.28	100	300	P	H	
		2390	51.95	-2.05	54	37.99	27.69	17.55	31.28	100	300	A	H	
	*	2412	118.69	-	-	104.79	27.58	17.59	31.27	100	300	P	H	
	*	2412	111.47	-	-	97.57	27.58	17.59	31.27	100	300	A	H	
			2389.695	60.29	-13.71	74	45.97	28.05	17.55	31.28	111	54	P	V
			2390	50.96	-3.04	54	36.65	28.04	17.55	31.28	111	54	A	V
	*		2412	121.53	-	-	107.35	27.86	17.59	31.27	111	54	P	V
	*		2412	113.75	-	-	99.57	27.86	17.59	31.27	111	54	A	V
	802.11g CH 06 2437MHz		2317.84	56.36	-17.64	74	42.15	28.11	17.42	31.32	129	305	P	H
		2389.84	46.28	-7.72	54	32.32	27.69	17.55	31.28	129	305	A	H	
*		2437	122.32	-	-	108.43	27.51	17.64	31.26	129	305	P	H	
*		2437	115.05	-	-	101.16	27.51	17.64	31.26	129	305	A	H	
			2488.32	61.44	-12.56	74	47.44	27.48	17.76	31.24	129	305	P	H
			2483.52	50.7	-3.3	54	36.71	27.48	17.75	31.24	129	305	A	H
			2334.96	56.2	-17.8	74	42.19	27.87	17.45	31.31	100	57	P	V
			2389.68	46.18	-7.82	54	31.86	28.05	17.55	31.28	100	57	A	V
*			2437	124.15	-	-	110.06	27.71	17.64	31.26	100	57	P	V
*			2437	116.51	-	-	102.42	27.71	17.64	31.26	100	57	A	V
			2489.84	58.79	-15.21	74	44.75	27.52	17.76	31.24	100	57	P	V
			2490.72	48.1	-5.9	54	34.06	27.51	17.76	31.23	100	57	A	V



WIFI	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 11 2462MHz	*	2462	118.79	-	-	104.87	27.47	17.7	31.25	140	303	P	H
	*	2462	111.17	-	-	97.25	27.47	17.7	31.25	140	303	A	H
		2484.88	62.54	-11.46	74	48.55	27.48	17.75	31.24	140	303	P	H
		2485.44	53.37	-0.63	54	39.38	27.48	17.75	31.24	140	303	A	H
	*	2462	119.72	-	-	105.72	27.55	17.7	31.25	100	56	P	V
	*	2462	112.14	-	-	98.14	27.55	17.7	31.25	100	56	A	V
		2488.16	60.09	-13.91	74	46.05	27.52	17.76	31.24	100	56	P	V
		2489.16	51.79	-2.21	54	37.75	27.52	17.76	31.24	100	56	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11g CH 01 2412MHz		4824	40.22	-33.78	74	65.44	31.45	11.52	68.19	-	-	P	H	
		11370	50.15	-23.85	74	60.52	39.99	17.34	67.7	-	-	P	H	
		11370	41.81	-12.19	54	52.18	39.99	17.34	67.7	-	-	A	H	
		14580	51.67	-22.33	74	57.81	41.73	19.96	67.83	-	-	P	H	
		14580	41.3	-12.7	54	47.44	41.73	19.96	67.83	-	-	A	H	
		17985	59.88	-14.12	74	58.3	48.05	22.95	69.42	-	-	P	H	
		17985	49.98	-4.02	54	48.4	48.05	22.95	69.42	-	-	A	H	
			4824	39.68	-34.32	74	64.88	31.47	11.52	68.19	-	-	P	V
			10365	50.17	-23.83	74	62.9	39.48	16.54	68.75	-	-	P	V
			10365	39.17	-14.83	54	51.9	39.48	16.54	68.75	-	-	A	V
			14535	51.7	-22.3	74	57.9	41.64	19.93	67.77	-	-	P	V
			14535	42	-12	54	48.2	41.64	19.93	67.77	-	-	A	V
			17970	59.43	-14.57	74	58.59	47.32	22.94	69.42	-	-	P	V
		17970	49.23	-4.77	54	48.39	47.32	22.94	69.42	-	-	A	V	



WIFI	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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 06 2437MHz		4874	39.7	-34.3	74	64.8	31.45	11.61	68.16	-	-	P	H	
		7311	43.76	-30.24	74	60.37	36.4	13.81	66.82	-	-	P	H	
		11910	50.55	-23.45	74	61.42	39.1	17.79	67.76	-	-	P	H	
		11910	40.29	-13.71	54	51.16	39.1	17.79	67.76	-	-	A	H	
		14370	51.64	-22.36	74	58	41.68	19.82	67.86	-	-	P	H	
		14370	41.94	-12.06	54	48.3	41.68	19.82	67.86	-	-	A	H	
		17955	59.58	-14.42	74	58.8	47.28	22.92	69.42	-	-	P	H	
		17955	49.38	-4.62	54	48.6	47.28	22.92	69.42	-	-	A	H	
			4874	38.96	-35.04	74	63.98	31.53	11.61	68.16	-	-	P	V
			7311	44.63	-29.37	74	61.29	36.35	13.81	66.82	-	-	P	V
			11355	50.18	-23.82	74	60.6	39.96	17.33	67.71	-	-	P	V
			11355	41.3	-12.7	54	51.72	39.96	17.33	67.71	-	-	A	V
			14475	51.53	-22.47	74	57.82	41.58	19.89	67.76	-	-	P	V
			14475	42.94	-11.06	54	49.23	41.58	19.89	67.76	-	-	A	V
		17985	59.5	-14.5	74	58.31	47.66	22.95	69.42	-	-	P	V	
		17985	49.9	-4.1	54	48.71	47.66	22.95	69.42	-	-	A	V	



WIFI	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11g CH 11 2462MHz		4924	39.8	-34.2	74	64.89	31.46	11.57	68.12	-	-	P	H	
		7386	44.91	-29.09	74	61.38	36.52	13.84	66.83	-	-	P	H	
		10875	50.14	-23.86	74	61.12	40.26	16.94	68.18	-	-	P	H	
		10875	40.66	-13.34	54	51.64	40.26	16.94	68.18	-	-	A	H	
		14505	52.06	-21.94	74	58.11	41.78	19.91	67.74	-	-	P	H	
		14505	43.61	-10.39	54	49.66	41.78	19.91	67.74	-	-	A	H	
		18000	60.18	-13.82	74	58.2	48.43	22.97	69.42	-	-	P	H	
		18000	50.38	-3.62	54	48.4	48.43	22.97	69.42	-	-	A	H	
			4924	38.95	-35.05	74	64.02	31.48	11.57	68.12	-	-	P	V
			7386	44.12	-29.88	74	60.75	36.36	13.84	66.83	-	-	P	V
			11010	50.08	-23.92	74	60.79	40.26	17.04	68.01	-	-	P	V
			11010	40.97	-13.03	54	51.68	40.26	17.04	68.01	-	-	A	V
			14505	52.13	-21.87	74	58.31	41.65	19.91	67.74	-	-	P	V
			14505	43.47	-10.53	54	49.65	41.65	19.91	67.74	-	-	A	V
		17985	59.8	-14.2	74	58.61	47.66	22.95	69.42	-	-	P	V	
		17985	49.6	-4.4	54	48.41	47.66	22.95	69.42	-	-	A	V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only. The emission level close to 18GHz is checked that the average emission level is noise floor only. 													



2.4GHz 2400~2483.5MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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		2389.485	62.87	-11.13	74	48.91	27.69	17.55	31.28	158	307	P	H	
		2389.905	52.93	-1.07	54	38.97	27.69	17.55	31.28	158	307	A	H	
	*	2412	121.06	-	-	107.16	27.58	17.59	31.27	158	307	P	H	
	*	2412	113.38	-	-	99.48	27.58	17.59	31.27	158	307	A	H	
			2390	56.68	-17.32	74	42.37	28.04	17.55	31.28	135	51	P	V
			2390	47.12	-6.88	54	32.81	28.04	17.55	31.28	135	51	A	V
	*		2412	121.41	-	-	107.23	27.86	17.59	31.27	135	51	P	V
	*		2412	113.31	-	-	99.13	27.86	17.59	31.27	135	51	A	V
	802.11ax HE20 Full CH 06 2437MHz		2373.84	56.04	-17.96	74	42.01	27.79	17.53	31.29	180	306	P	H
		2389.94	45.93	-8.07	54	31.97	27.69	17.55	31.28	180	306	A	H	
*		2437	123.89	-	-	110	27.51	17.64	31.26	180	306	P	H	
*		2437	115.01	-	-	101.12	27.51	17.64	31.26	180	306	A	H	
			2485.6	57.77	-16.23	74	43.78	27.48	17.75	31.24	180	306	P	H
			2485.28	47.82	-6.18	54	33.83	27.48	17.75	31.24	180	306	A	H
			2335.48	55.74	-18.26	74	41.73	27.87	17.45	31.31	100	55	P	V
			2389.8	45.83	-8.17	54	31.51	28.05	17.55	31.28	100	55	A	V
*			2437	121.65	-	-	107.56	27.71	17.64	31.26	100	55	P	V
*			2437	113.63	-	-	99.54	27.71	17.64	31.26	100	55	A	V
			2484.24	58.43	-15.57	74	44.4	27.52	17.75	31.24	100	55	P	V
			2484.08	48.19	-5.81	54	34.16	27.52	17.75	31.24	100	55	A	V



WIFI	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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	120.62	-	-	106.7	27.47	17.7	31.25	175	307	P	H
	*	2462	111.85	-	-	97.93	27.47	17.7	31.25	175	307	A	H
		2487.4	65.2	-8.8	74	51.21	27.48	17.75	31.24	175	307	P	H
		2486.6	53.79	-0.21	54	39.8	27.48	17.75	31.24	175	307	A	H
	*	2462	120.12	-	-	106.12	27.55	17.7	31.25	141	50	P	V
	*	2462	111.82	-	-	97.82	27.55	17.7	31.25	141	50	A	V
		2485.04	61.62	-12.38	74	47.59	27.52	17.75	31.24	141	50	P	V
		2488.24	50.8	-3.2	54	36.76	27.52	17.76	31.24	141	50	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Full (Harmonic @ 3m)

WIFI	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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		4824	40.34	-33.66	74	65.56	31.45	11.52	68.19	-	-	P	H	
		10860	50.22	-23.78	74	61.28	40.21	16.93	68.2	-	-	P	H	
		10860	40.71	-13.29	54	51.77	40.21	16.93	68.2	-	-	A	H	
		14580	52.16	-21.84	74	58.3	41.73	19.96	67.83	-	-	P	H	
		14580	43.71	-10.29	54	49.85	41.73	19.96	67.83	-	-	A	H	
		18000	59.78	-14.22	74	57.8	48.43	22.97	69.42	-	-	P	H	
		18000	50.18	-3.82	54	48.2	48.43	22.97	69.42	-	-	A	H	
			4824	40.91	-33.09	74	66.11	31.47	11.52	68.19	-	-	P	V
			11475	50.46	-23.54	74	60.42	40.23	17.42	67.61	-	-	P	V
		11475	41.69	-12.31	54	51.65	40.23	17.42	67.61	-	-	A	V	
		14505	51.94	-22.06	74	58.12	41.65	19.91	67.74	-	-	P	V	
		14505	43.73	-10.27	54	49.91	41.65	19.91	67.74	-	-	A	V	
		17940	58.64	-15.36	74	58.51	46.65	22.9	69.42	-	-	P	V	
		17940	49.54	-4.46	54	49.41	46.65	22.9	69.42	-	-	A	V	



WIFI	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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 06 2437MHz		4874	39.38	-34.62	74	64.48	31.45	11.61	68.16	-	-	P	H	
		7311	43.8	-30.2	74	60.41	36.4	13.81	66.82	-	-	P	H	
		11655	50.71	-23.29	74	61.13	39.67	17.57	67.66	-	-	P	H	
		11655	41.3	-12.7	54	51.72	39.67	17.57	67.66	-	-	A	H	
		14535	52.47	-21.53	74	58.56	41.75	19.93	67.77	-	-	P	H	
		14535	43.95	-10.05	54	50.04	41.75	19.93	67.77	-	-	A	H	
		18000	60.18	-13.82	74	58.2	48.43	22.97	69.42	-	-	P	H	
		18000	50.38	-3.62	54	48.4	48.43	22.97	69.42	-	-	A	H	



WIFI	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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	39.63	-34.37	74	64.72	31.46	11.57	68.12	-	-	P	H	
		7386	44.1	-29.9	74	60.57	36.52	13.84	66.83	-	-	P	H	
		11220	50.98	-23.02	74	61.76	39.84	17.21	67.83	-	-	P	H	
		11220	40.69	-13.31	54	51.47	39.84	17.21	67.83	-	-	A	H	
		14655	52.06	-21.94	74	58.28	41.7	20.01	67.93	-	-	P	H	
		14655	43.47	-10.53	54	49.69	41.7	20.01	67.93	-	-	A	H	
		17970	59.68	-14.32	74	58.5	47.66	22.94	69.42	-	-	P	H	
		17970	49.38	-4.62	54	48.2	47.66	22.94	69.42	-	-	A	H	
			4924	39.33	-34.67	74	64.4	31.48	11.57	68.12	-	-	P	V
			7386	44.14	-29.86	74	60.77	36.36	13.84	66.83	-	-	P	V
			11370	50.29	-23.71	74	60.66	39.99	17.34	67.7	-	-	P	V
			11370	41.39	-12.61	54	51.76	39.99	17.34	67.7	-	-	A	V
			14520	52.16	-21.84	74	58.35	41.65	19.92	67.76	-	-	P	V
			14520	43.7	-10.3	54	49.89	41.65	19.92	67.76	-	-	A	V
		17970	59.63	-14.37	74	58.79	47.32	22.94	69.42	-	-	P	V	
		17970	49.93	-4.07	54	49.09	47.32	22.94	69.42	-	-	A	V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only. The emission level close to 18GHz is checked that the average emission level is noise floor only. 													



2.4GHz 2400~2483.5MHz

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

WIFI	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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		2389.24	63.55	-10.45	74	49.59	27.69	17.55	31.28	158	307	P	H
		2388.68	52.74	-1.26	54	38.77	27.7	17.55	31.28	158	307	A	H
	*	2422	118.22	-	-	104.33	27.55	17.61	31.27	158	307	P	H
	*	2422	110.3	-	-	96.41	27.55	17.61	31.27	158	307	A	H
		2484.96	59.32	-14.68	74	45.33	27.48	17.75	31.24	158	307	P	H
		2486.56	47.52	-6.48	54	33.53	27.48	17.75	31.24	158	307	A	H
		2389.94	63.65	-10.35	74	49.34	28.04	17.55	31.28	110	51	P	V
		2390	53.81	-0.19	54	39.5	28.04	17.55	31.28	110	51	A	V
	*	2422	119.33	-	-	105.22	27.77	17.61	31.27	110	51	P	V
	*	2422	110.45	-	-	96.34	27.77	17.61	31.27	110	51	A	V
		2485.2	56.2	-17.8	74	42.17	27.52	17.75	31.24	110	51	P	V
		2489.76	46.14	-7.86	54	32.1	27.52	17.76	31.24	110	51	A	V
802.11ax HE40 Full CH 06 2437MHz		2389.94	59.35	-14.65	74	45.39	27.69	17.55	31.28	160	307	P	H
		2389.94	48.1	-5.9	54	34.14	27.69	17.55	31.28	160	307	A	H
	*	2437	118.32	-	-	104.43	27.51	17.64	31.26	160	307	P	H
	*	2437	109.91	-	-	96.02	27.51	17.64	31.26	160	307	A	H
		2488.16	58.82	-15.18	74	44.82	27.48	17.76	31.24	160	307	P	H
		2483.52	49.87	-4.13	54	35.88	27.48	17.75	31.24	160	307	A	H
		2389.94	56.7	-17.3	74	42.39	28.04	17.55	31.28	158	43	P	V
		2389.94	46.43	-7.57	54	32.12	28.04	17.55	31.28	158	43	A	V
	*	2437	119.82	-	-	105.73	27.71	17.64	31.26	158	43	P	V
	*	2437	110.3	-	-	96.21	27.71	17.64	31.26	158	43	A	V
		2485.2	62.79	-11.21	74	48.76	27.52	17.75	31.24	158	43	P	V
		2484.24	52.13	-1.87	54	38.1	27.52	17.75	31.24	158	43	A	V



WIFI	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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		2363.9	56.06	-17.94	74	41.99	27.86	17.51	31.3	155	305	P	H
		2389.94	45.18	-8.82	54	31.22	27.69	17.55	31.28	155	305	A	H
	*	2452	115.48	-	-	101.58	27.47	17.68	31.25	155	305	P	H
	*	2452	107.42	-	-	93.52	27.47	17.68	31.25	155	305	A	H
		2484.32	63.88	-10.12	74	49.89	27.48	17.75	31.24	155	305	P	H
		2484.56	52.91	-1.09	54	38.92	27.48	17.75	31.24	155	305	A	H
		2387.42	55.53	-18.47	74	41.2	28.06	17.55	31.28	135	46	P	V
		2389.66	45.38	-8.62	54	31.06	28.05	17.55	31.28	135	46	A	V
	*	2452	116.83	-	-	102.79	27.61	17.68	31.25	135	46	P	V
	*	2452	108.6	-	-	94.56	27.61	17.68	31.25	135	46	A	V
		2483.68	64.35	-9.65	74	50.32	27.52	17.75	31.24	135	46	P	V
		2483.6	53.78	-0.22	54	39.75	27.52	17.75	31.24	135	46	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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 06 2437MHz		4844	40.89	-33.11	74	66.06	31.46	11.55	68.18	-	-	P	H	
		7266	44.03	-29.97	74	60.71	36.38	13.76	66.82	-	-	P	H	
		11370	50.1	-23.9	74	60.47	39.99	17.34	67.7	-	-	P	H	
		11370	40.92	-13.08	54	51.29	39.99	17.34	67.7	-	-	A	H	
		14595	52.04	-21.96	74	58.19	41.72	19.98	67.85	-	-	P	H	
		14595	43.04	-10.96	54	49.19	41.72	19.98	67.85	-	-	A	H	
		17955	60.28	-13.72	74	59.5	47.28	22.92	69.42	-	-	P	H	
		17955	50.18	-3.82	54	49.4	47.28	22.92	69.42	-	-	A	H	
			4844	40.55	-33.45	74	65.65	31.53	11.55	68.18	-	-	P	V
			7266	44.02	-29.98	74	60.76	36.32	13.76	66.82	-	-	P	V
			10950	50.45	-23.55	74	61.2	40.34	16.99	68.08	-	-	P	V
			10950	40.69	-13.31	54	51.44	40.34	16.99	68.08	-	-	A	V
			14565	52.33	-21.67	74	58.55	41.64	19.95	67.81	-	-	P	V
			14565	43.38	-10.62	54	49.6	41.64	19.95	67.81	-	-	A	V
		17940	58.74	-15.26	74	58.61	46.65	22.9	69.42	-	-	P	V	
		17940	49.54	-4.46	54	49.41	46.65	22.9	69.42	-	-	A	V	



WIFI	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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		4904	39.02	-34.98	74	64.09	31.43	11.64	68.14	-	-	P	H	
		7356	44.13	-29.87	74	60.68	36.45	13.83	66.83	-	-	P	H	
		11370	50.2	-23.8	74	60.57	39.99	17.34	67.7	-	-	P	H	
		11370	41.18	-12.82	54	51.55	39.99	17.34	67.7	-	-	A	H	
		14565	52.06	-21.94	74	58.19	41.73	19.95	67.81	-	-	P	H	
		14565	43.54	-10.46	54	49.67	41.73	19.95	67.81	-	-	A	H	
		17970	59.68	-14.32	74	58.5	47.66	22.94	69.42	-	-	P	H	
		17970	49.58	-4.42	54	48.4	47.66	22.94	69.42	-	-	A	H	
			4904	39.76	-34.24	74	64.75	31.51	11.64	68.14	-	-	P	V
			7356	44.3	-29.7	74	60.96	36.34	13.83	66.83	-	-	P	V
			11010	50.27	-23.73	74	60.98	40.26	17.04	68.01	-	-	P	V
			11010	40.43	-13.57	54	51.14	40.26	17.04	68.01	-	-	A	V
			14580	52.32	-21.68	74	58.55	41.64	19.96	67.83	-	-	P	V
			14580	43.58	-10.42	54	49.81	41.64	19.96	67.83	-	-	A	V
		18000	60.26	-13.74	74	58.7	48.01	22.97	69.42	-	-	P	V	
		18000	50.16	-3.84	54	48.6	48.01	22.97	69.42	-	-	A	V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only. The emission level close to 18GHz is checked that the average emission level is noise floor only. 													



2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 Partial RU 52 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ax HE20 Partial RU CH 01 2412MHz		2390	58.29	-15.71	74	44.54	27.29	17.96	31.5	338	116	P	H	
		2389.905	48.07	-5.93	54	34.32	27.29	17.96	31.5	338	116	A	H	
	*	2412	116.1	-	-	102.15	27.44	18	31.49	338	116	P	H	
	*	2412	106.52	-	-	92.57	27.44	18	31.49	338	116	A	H	
													H	
													H	
			2389.8	60.39	-13.61	74	46.64	27.29	17.96	31.5	197	222	P	V
			2390	50.23	-3.77	54	36.48	27.29	17.96	31.5	197	222	A	V
	*		2412	117.54	-	-	103.59	27.44	18	31.49	197	222	P	V
	*		2412	107.47	-	-	93.52	27.44	18	31.49	197	222	A	V
													V	
													V	
802.11ax HE20 Partial RU CH 11 2462MHz	*	2462	112.72	-	-	98.52	27.57	18.1	31.47	251	244	P	H	
	*	2462	102.74	-	-	88.54	27.57	18.1	31.47	251	244	A	H	
		2485.84	61.08	-12.92	74	46.69	27.71	18.14	31.46	251	244	P	H	
		2485.84	50.98	-3.02	54	36.59	27.71	18.14	31.46	251	244	A	H	
													H	
													H	
	*	2462	111.81	-	-	97.61	27.57	18.1	31.47	125	144	P	V	
	*	2462	104.29	-	-	90.09	27.57	18.1	31.47	125	144	A	V	
		2485.08	62.18	-11.82	74	47.8	27.71	18.13	31.46	125	144	P	V	
		2485.44	51.66	-2.34	54	37.27	27.71	18.14	31.46	125	144	A	V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



**Emission above 18GHz
2.4GHz WIFI 802.11ax HE40 (SHF)**

WIFI	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
2.4GHz 802.11ax HE40 SHF		23771.5	44.08	-29.92	74	41.22	38.72	15.52	51.38	-	-	P	H
		25403.5	44.91	-29.09	74	40.26	39.09	17.1	51.54	-	-	P	H
	Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.											



Emission below 1GHz
2.4GHz WIFI 802.11ax HE40 (LF)

WIFI	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)	
2.4GHz 802.11ax HE40 LF		63.95	31.59	-8.41	40	50.72	11.89	1.41	32.43	-	-	P	H	
		144.46	28.45	-15.05	43.5	41.51	17.35	2	32.41	-	-	P	H	
		321	31.19	-14.81	46	41.26	19.42	2.95	32.44	-	-	P	H	
		500.45	33.89	-12.11	46	39.02	23.81	3.64	32.58	-	-	P	H	
		749.74	34.58	-11.42	46	34.31	27.99	4.66	32.38	-	-	P	H	
		874.87	39.81	-6.19	46	37.55	29.1	4.94	31.78	-	-	P	H	
			39.7	33.1	-6.9	40	44.58	19.88	1.08	32.44	-	-	P	V
			62.98	32.95	-7.05	40	52.19	11.8	1.39	32.43	-	-	P	V
		105.66	32.33	-11.17	43.5	46.44	16.57	1.73	32.41	-	-	P	V	
		499.48	31.94	-14.06	46	37.08	23.8	3.64	32.58	-	-	P	V	
		753.62	36.07	-9.93	46	35.78	28	4.66	32.37	-	-	P	V	
		874.87	39.68	-6.32	46	37.42	29.1	4.94	31.78	-	-	P	V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against limit line. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only. 													



Note symbol

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



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

WIFI 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 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		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

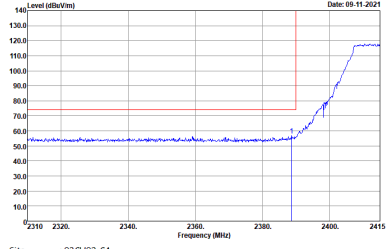
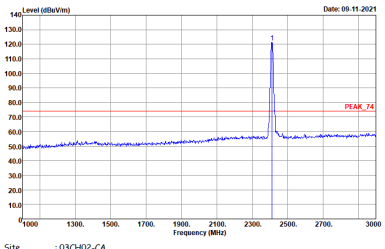
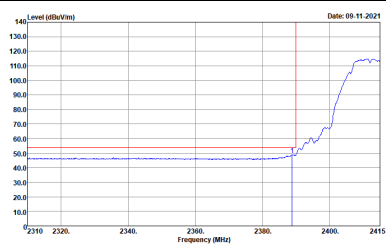
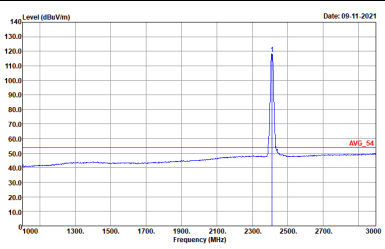
Test Engineer :	Michael Bui and Daniel Lee	Temperature :	20~24°C
		Relative Humidity :	41.1~48%



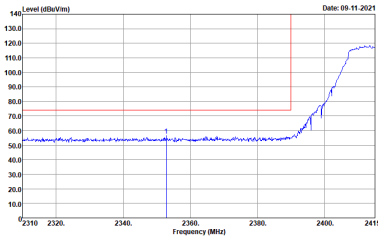
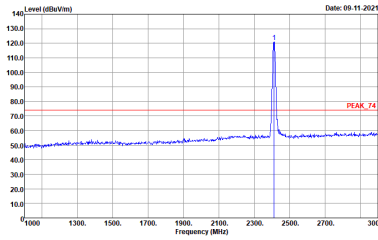
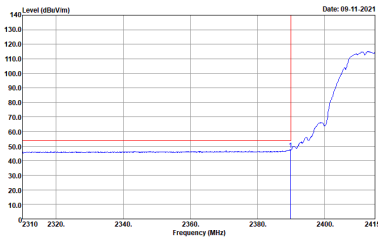
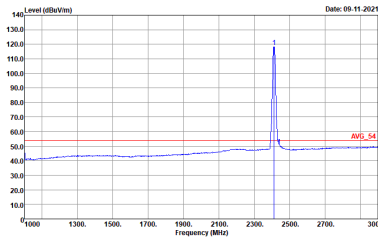
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MIMO <Ant. A+D+B+C>

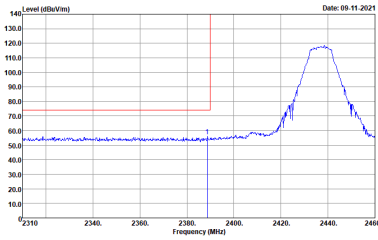
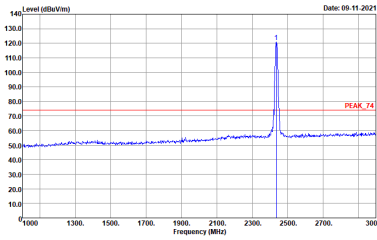
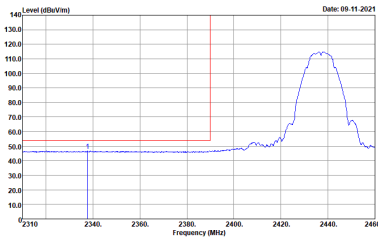
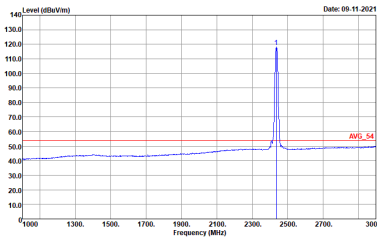
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11b CH01 2412MHz	
	Horizontal	Fundamental
Peak	 <p>Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_02113 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH02-CA Condition : PEAK_74 3m HORN 9120D-HF_02113 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH02-CA Condition : AV6_BE_54 3m HORN 9120D-HF_02113 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	 <p>Site : 03CH02-CA Condition : AV6_54 3m HORN 9120D-HF_02113 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>

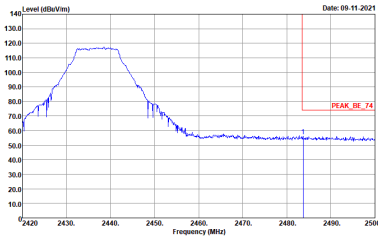
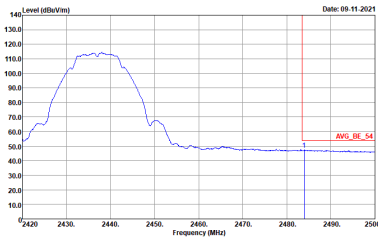


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
802.11b CH01 2412MHz		
Vertical		Fundamental
Peak	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot for Vertical Peak. The plot shows a rising signal level starting around 2380 MHz and reaching approximately 115 dBm/100kHz at 2415 MHz. A red horizontal line is drawn at approximately 75 dBm/100kHz.</p> <p>Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot for Fundamental Peak. The plot shows a sharp peak at approximately 2412 MHz with a level of about 125 dBm/100kHz. A red horizontal line is drawn at approximately 75 dBm/100kHz, labeled 'PEAK_74'.</p> <p>Site : 03CH02-CA Condition : PEAK_74 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot for Vertical Avg. The plot shows a rising signal level starting around 2380 MHz and reaching approximately 115 dBm/100kHz at 2415 MHz. A red horizontal line is drawn at approximately 50 dBm/100kHz.</p> <p>Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot for Fundamental Avg. The plot shows a sharp peak at approximately 2412 MHz with a level of about 125 dBm/100kHz. A red horizontal line is drawn at approximately 50 dBm/100kHz, labeled 'AVG_54'.</p> <p>Site : 03CH02-CA Condition : AVG_54 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>

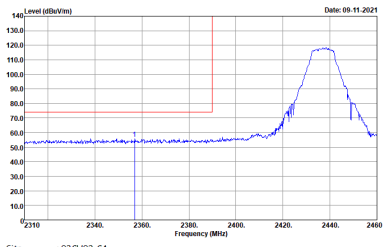
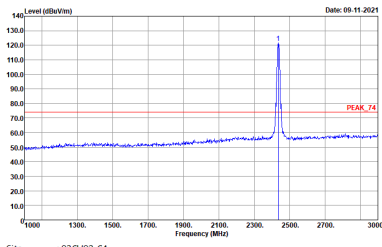
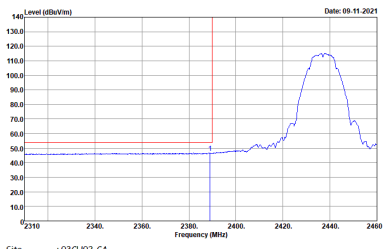
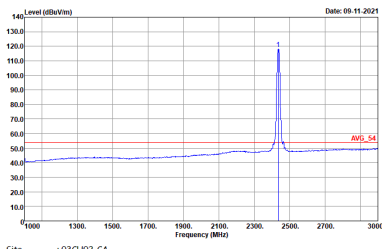


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
802.11b CH06 2437MHz - L		
Horizontal		Fundamental
Peak	 <p>Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 91200-HF_02113 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH02-CA Condition : PEAK_74 3m HORN 91200-HF_02113 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 91200-HF_02113 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	 <p>Site : 03CH02-CA Condition : AVG_54 3m HORN 91200-HF_02113 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>

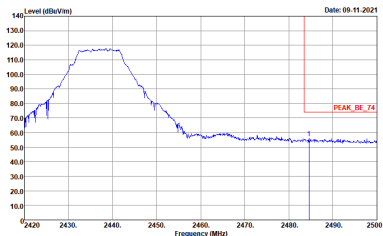
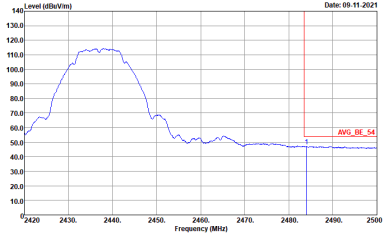


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11b CH06 2437MHz - R	
	Horizontal	Fundamental
Peak	 <p>Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 91200-HF_02113 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 91200-HF_02113 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	Left blank

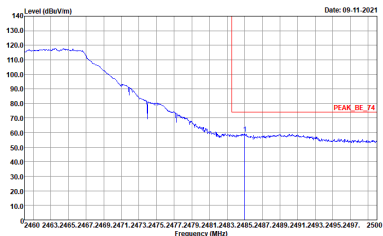
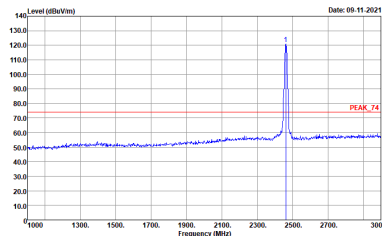
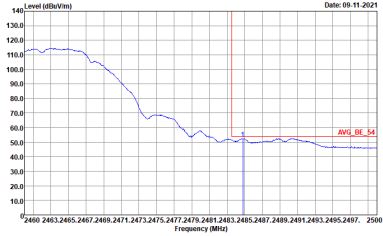
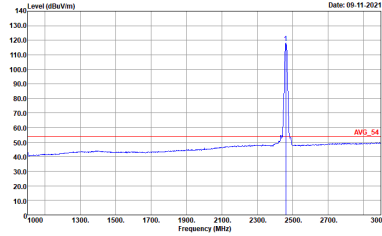


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
802.11b CH06 2437MHz - L		
Vertical		Fundamental
Peak	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot for Vertical Peak. The plot shows a peak at approximately 2437 MHz with a level of about 115 dBm/100kHz. A red vertical line marks the peak. The x-axis ranges from 2310 to 2460 MHz, and the y-axis ranges from 10.0 to 140.0 dBm/100kHz.</p> <p>Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot for Fundamental Peak. The plot shows a sharp peak at approximately 2437 MHz with a level of about 125 dBm/100kHz. A red horizontal line marks the peak level. The x-axis ranges from 1000 to 3000 MHz, and the y-axis ranges from 10.0 to 140.0 dBm/100kHz.</p> <p>Site : 03CH02-CA Condition : PEAK_74 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot for Vertical Avg. The plot shows a peak at approximately 2437 MHz with a level of about 110 dBm/100kHz. A red vertical line marks the peak. The x-axis ranges from 2310 to 2460 MHz, and the y-axis ranges from 10.0 to 140.0 dBm/100kHz.</p> <p>Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot for Fundamental Avg. The plot shows a sharp peak at approximately 2437 MHz with a level of about 120 dBm/100kHz. A red horizontal line marks the peak level. The x-axis ranges from 1000 to 3000 MHz, and the y-axis ranges from 10.0 to 140.0 dBm/100kHz.</p> <p>Site : 03CH02-CA Condition : AVG_54 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>

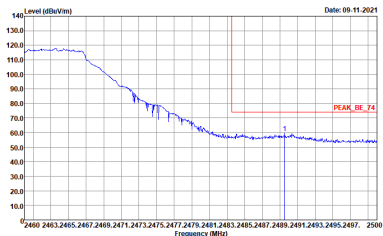
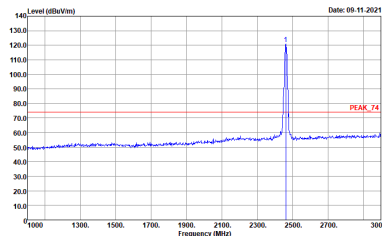
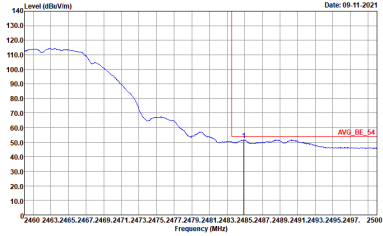
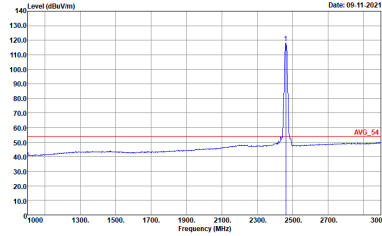


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11b CH06 2437MHz - R	
	Vertical	Fundamental
Peak	 <p>Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	Left blank



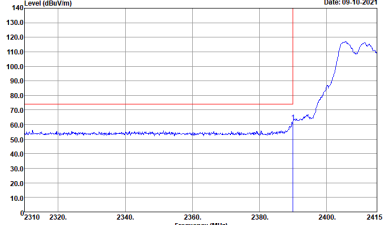
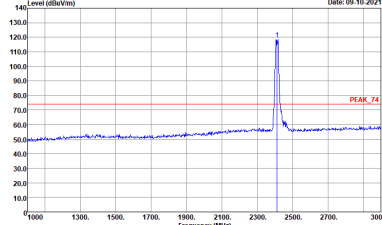
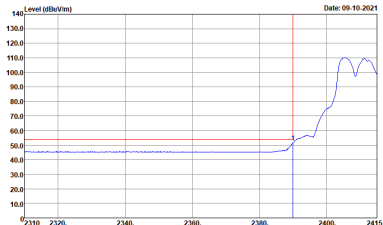
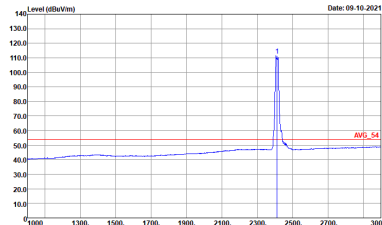
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11b CH11 2462MHz	
	Horizontal	Fundamental
Peak	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing a peak at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 2460 to 2500 MHz. A red line indicates the peak level at approximately 75 dBm/100kHz.</p> <p>Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 91200-HF_02113 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing a sharp peak at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 2450 to 2470 MHz. A red line indicates the peak level at approximately 75 dBm/100kHz.</p> <p>Site : 03CH02-CA Condition : PEAK_74 3m HORN 91200-HF_02113 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing the average spectrum. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 2460 to 2500 MHz. A red line indicates the average level at approximately 55 dBm/100kHz.</p> <p>Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 91200-HF_02113 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing the average spectrum. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 2450 to 2470 MHz. A red line indicates the average level at approximately 55 dBm/100kHz.</p> <p>Site : 03CH02-CA Condition : AVG_54 3m HORN 91200-HF_02113 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>



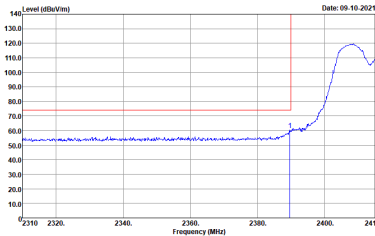
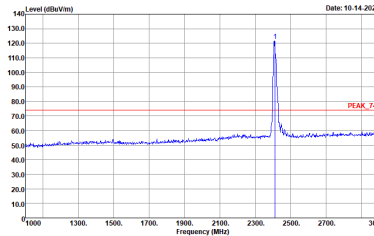
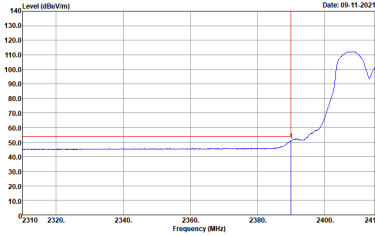
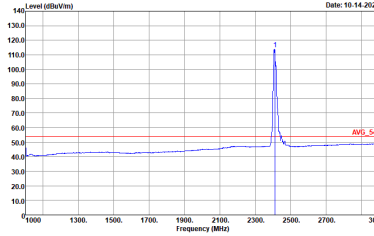
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
802.11b CH11 2462MHz		
Vertical		Fundamental
Peak	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing a peak at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 2400 to 2500 MHz. A red line indicates the peak level at approximately 74 dBm/100kHz.</p> <p>Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing a sharp peak at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 1000 to 3000 MHz. A red line indicates the peak level at approximately 74 dBm/100kHz.</p> <p>Site : 03CH02-CA Condition : PEAK_74 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing the average level across the band. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 2400 to 2500 MHz. A red line indicates the average level at approximately 54 dBm/100kHz.</p> <p>Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing the average level across the band. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 1000 to 3000 MHz. A red line indicates the average level at approximately 54 dBm/100kHz.</p> <p>Site : 03CH02-CA Condition : AVG_54 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>



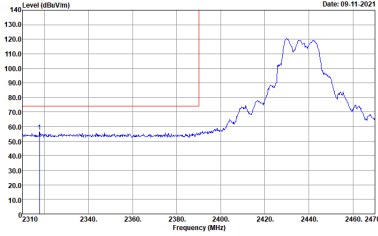
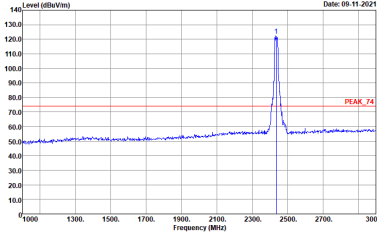
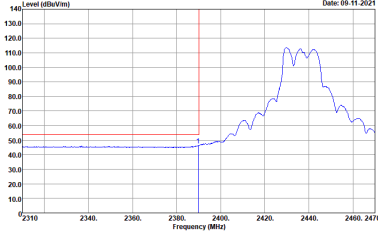
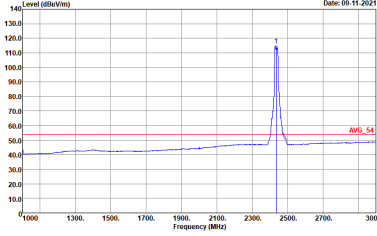
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11g CH01 2412MHz	
	Horizontal	Fundamental
Peak	 <p>Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 91200-HF_02113 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH02-CA Condition : PEAK_74 3m HORN 91200-HF_02113 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 91200-HF_02113 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	 <p>Site : 03CH02-CA Condition : AVG_54 3m HORN 91200-HF_02113 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>

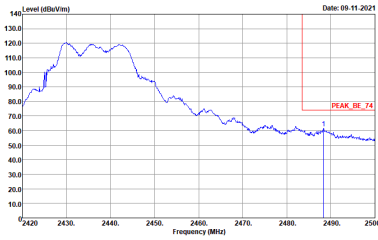
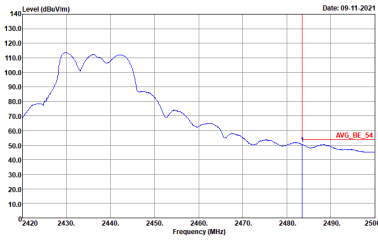


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
802.11g CH01 2412MHz		
	Vertical	Fundamental
Peak	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot for Vertical. Date: 09-10-2021. The plot shows a rising signal edge starting around 2380 MHz and peaking at approximately 115 dBm/100kHz at 2412 MHz. A red vertical line marks the peak at 2412 MHz.</p> <p>Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot for Fundamental. Date: 10-14-2021. The plot shows a sharp peak at 2412 MHz with a level of approximately 125 dBm/100kHz. A red horizontal line is drawn at this level, labeled 'PEAK_74'.</p> <p>Site : 03CH02-CA Condition : PEAK_74 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot for Vertical. Date: 09-11-2021. The plot shows a rising signal edge starting around 2380 MHz and peaking at approximately 115 dBm/100kHz at 2412 MHz. A red vertical line marks the peak at 2412 MHz.</p> <p>Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot for Fundamental. Date: 10-14-2021. The plot shows a sharp peak at 2412 MHz with a level of approximately 115 dBm/100kHz. A red horizontal line is drawn at this level, labeled 'AVG_54'.</p> <p>Site : 03CH02-CA Condition : AVG_54 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>

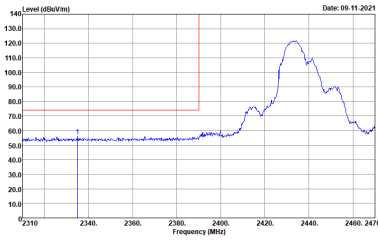
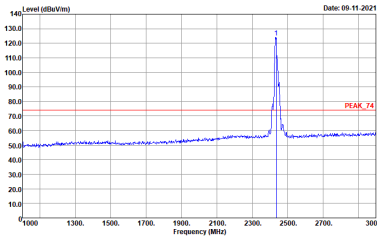
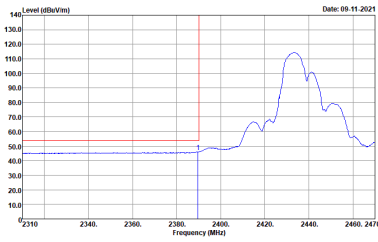
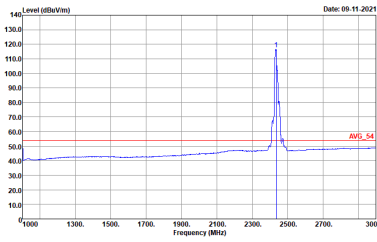


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
802.11g CH06 2437MHz - L		
Horizontal		Fundamental
Peak	 <p>Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 91200-HF_02113 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH02-CA Condition : PEAK_74 3m HORN 91200-HF_02113 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 91200-HF_02113 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	 <p>Site : 03CH02-CA Condition : AVG_54 3m HORN 91200-HF_02113 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>

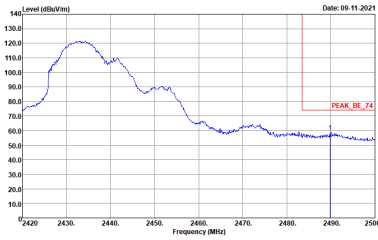
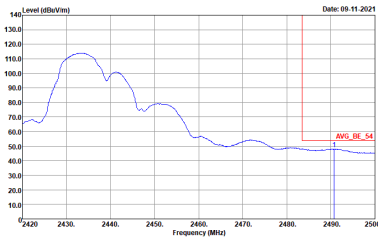


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11g CH06 2437MHz - R	
	Horizontal	Fundamental
<p>Peak</p>	 <p>Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 91200-HF_02113 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 91200-HF_02113 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p>Left blank</p>

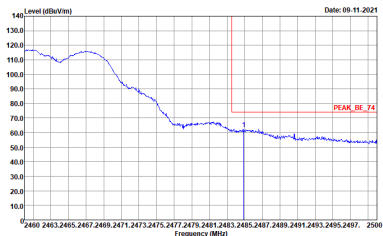
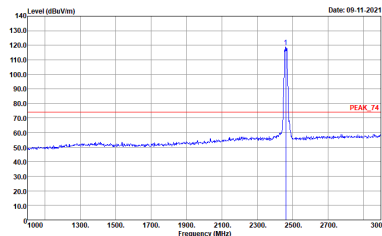
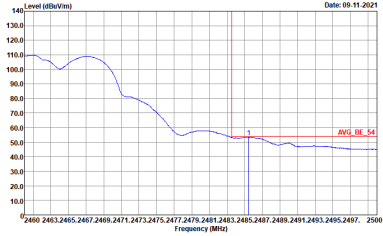
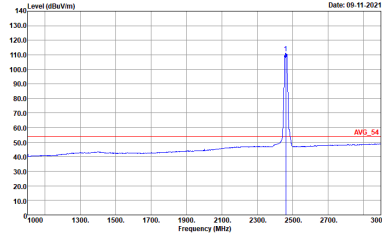


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
802.11g CH06 2437MHz - L		
Vertical		Fundamental
Peak	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing a peak at approximately 2437 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 2310 to 2470 MHz. A red vertical line marks the peak frequency.</p> <p>Date: 09-11-2021</p> <p>Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing a sharp peak at approximately 2437 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 1000 to 3000 MHz. A red horizontal line indicates the peak level, labeled 'PEAK_74'.</p> <p>Date: 09-11-2021</p> <p>Site : 03CH02-CA Condition : PEAK_74 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing the average spectrum. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 2310 to 2470 MHz. A red vertical line marks the peak frequency.</p> <p>Date: 09-11-2021</p> <p>Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing the average spectrum. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 1000 to 3000 MHz. A red horizontal line indicates the average level, labeled 'AVG_54'.</p> <p>Date: 09-11-2021</p> <p>Site : 03CH02-CA Condition : AVG_54 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>

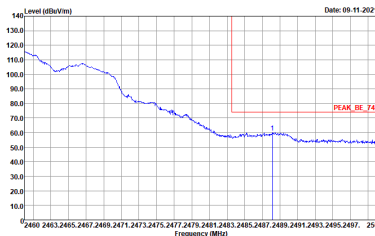
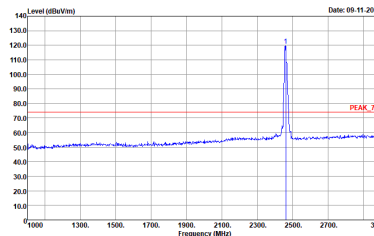
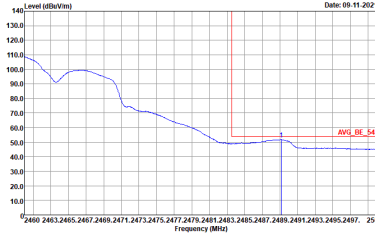
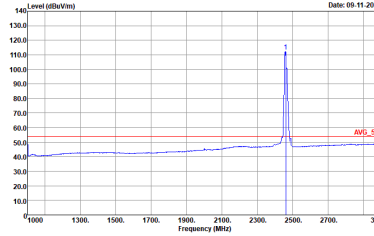


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	802.11g CH06 2437MHz - R	
	Vertical	Fundamental
Peak	 <p>Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left Blank
Avg.	 <p>Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left Blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
802.11g CH11 2462MHz		
Horizontal		Fundamental
Peak	 <p>Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 91200-HF_02113 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH02-CA Condition : PEAK_74 3m HORN 91200-HF_02113 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 91200-HF_02113 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>	 <p>Site : 03CH02-CA Condition : AVG_54 3m HORN 91200-HF_02113 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
802.11g CH11 2462MHz		
Vertical		Fundamental
Peak	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing a peak at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 2400 to 2500 MHz. A red line indicates the peak level at approximately 65 dBm/100kHz.</p> <p>Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing a sharp peak at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 1000 to 3000 MHz. A red line indicates the peak level at approximately 75 dBm/100kHz.</p> <p>Site : 03CH02-CA Condition : PEAK_74 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing the average level. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 2400 to 2500 MHz. A red line indicates the average level at approximately 55 dBm/100kHz.</p> <p>Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing the average level. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 1000 to 3000 MHz. A red line indicates the average level at approximately 55 dBm/100kHz.</p> <p>Site : 03CH02-CA Condition : AVG_54 3m HORN 91200-HF_02113 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>