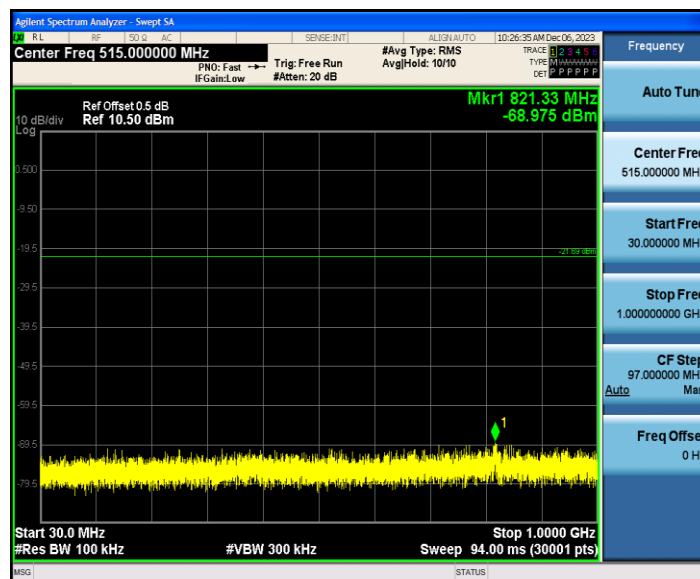


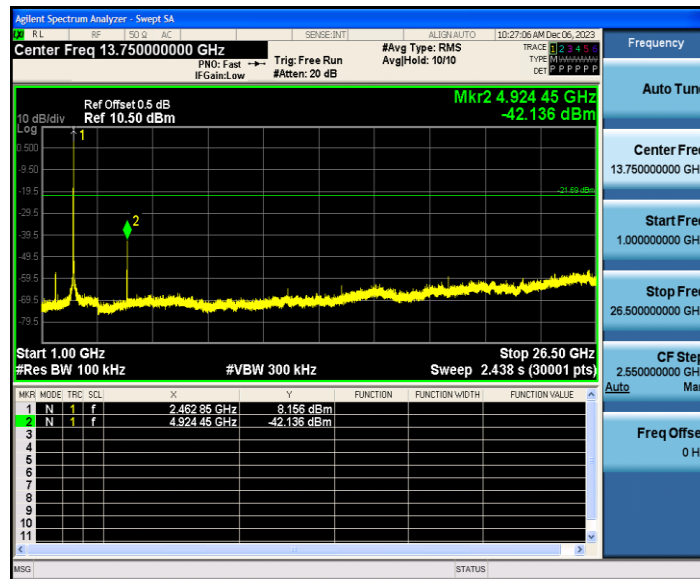
11B_Ant1_2462_0~Reference



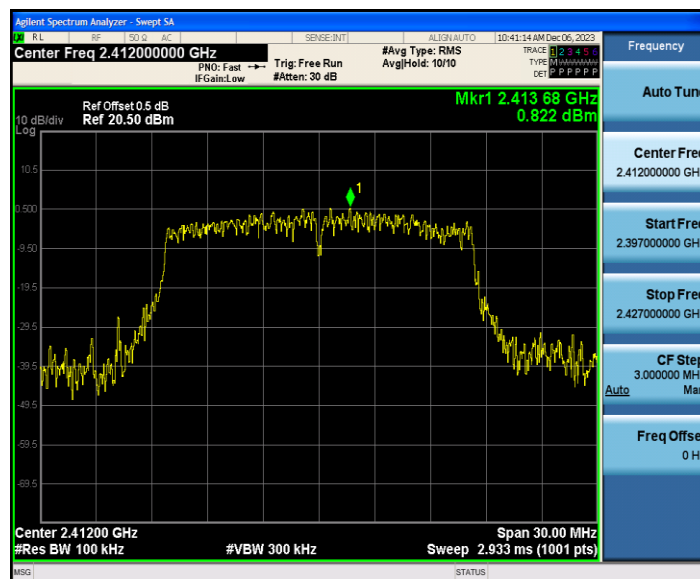
11B_Ant1_2462_30~1000



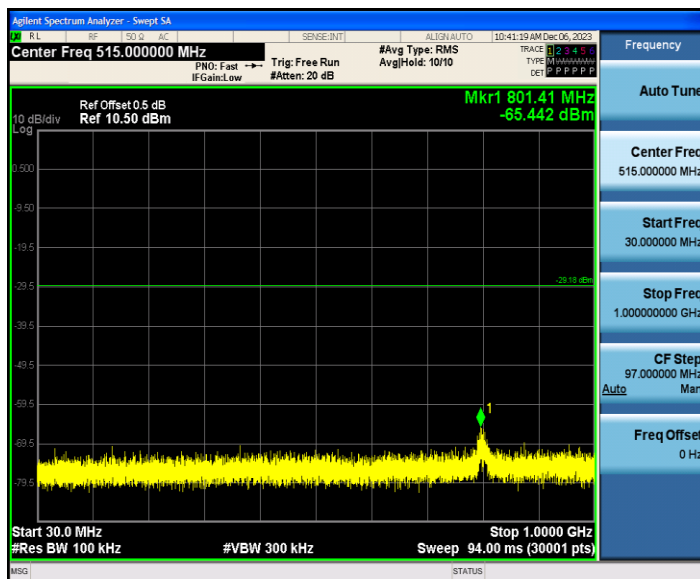
11B_Ant1_2462_1000~26500



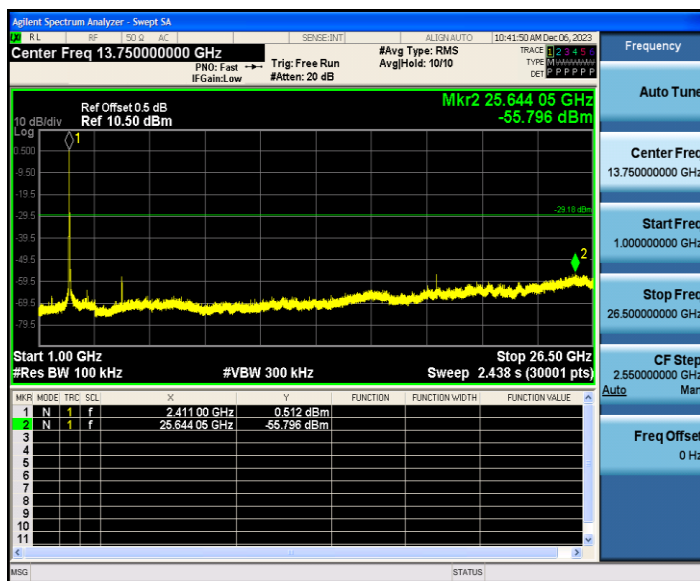
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



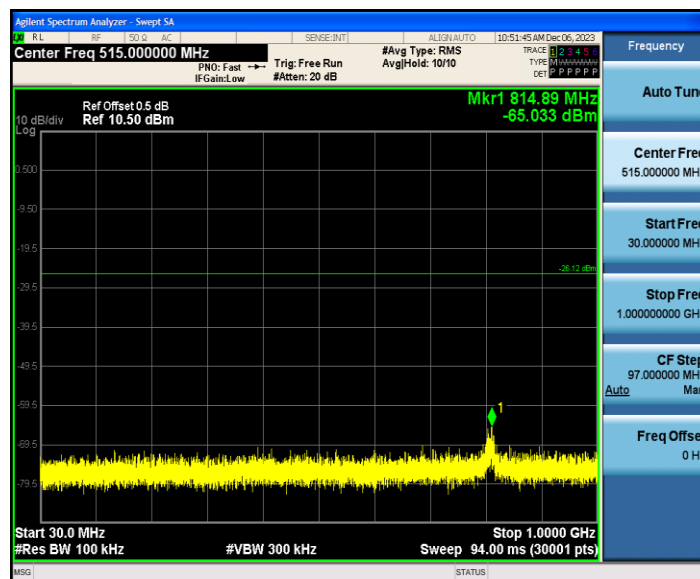
11G_Ant1_2412_1000~26500



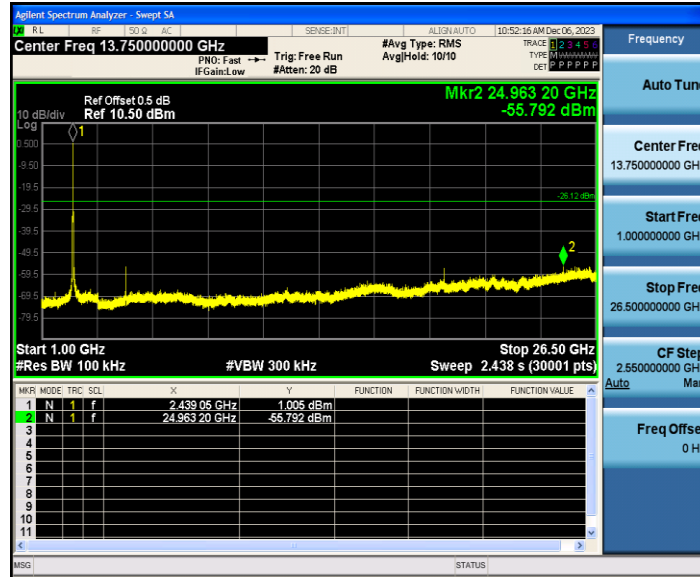
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



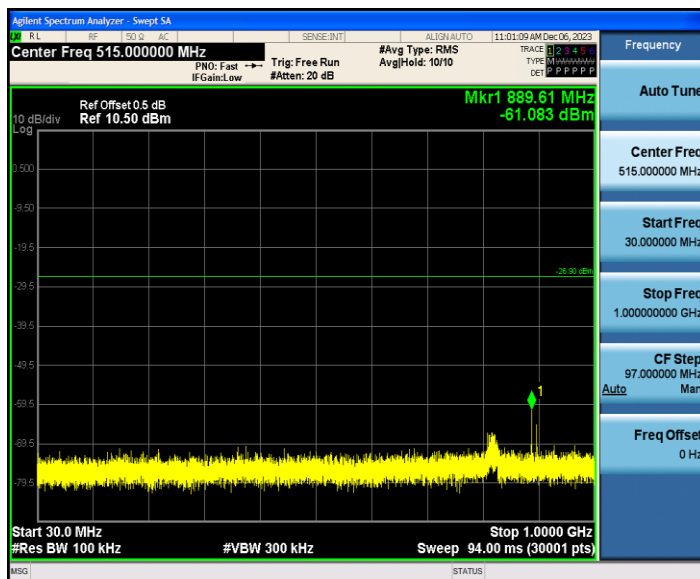
11G_Ant1_2437_1000~26500



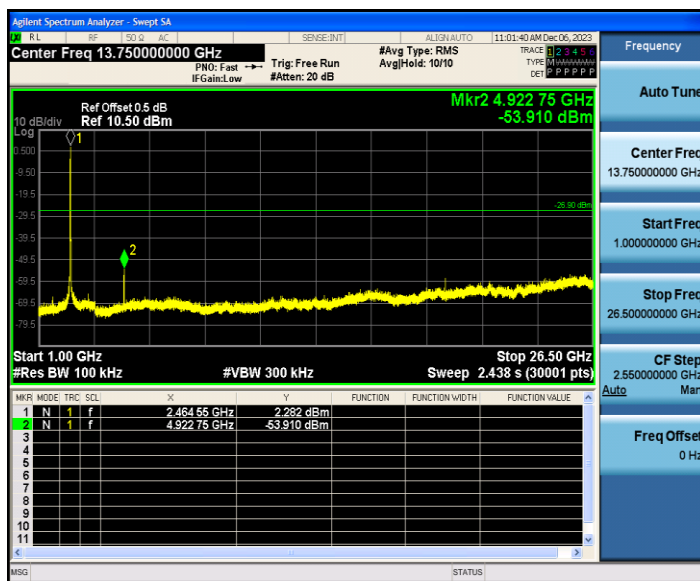
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



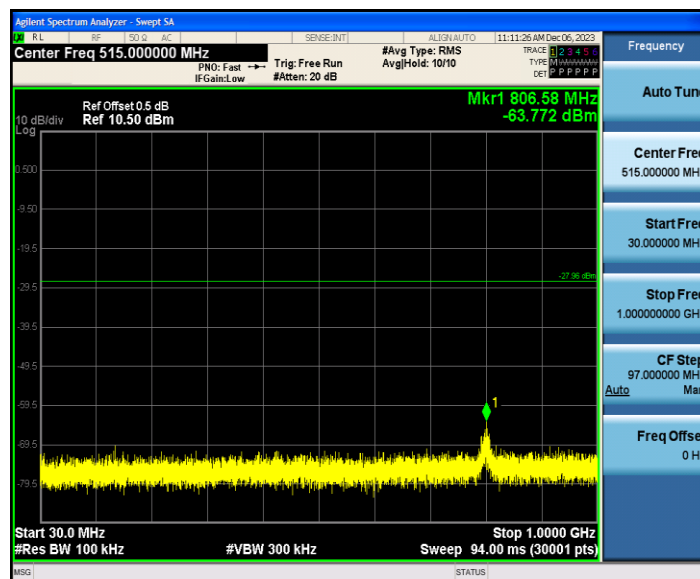
11G_Ant1_2462_1000~26500



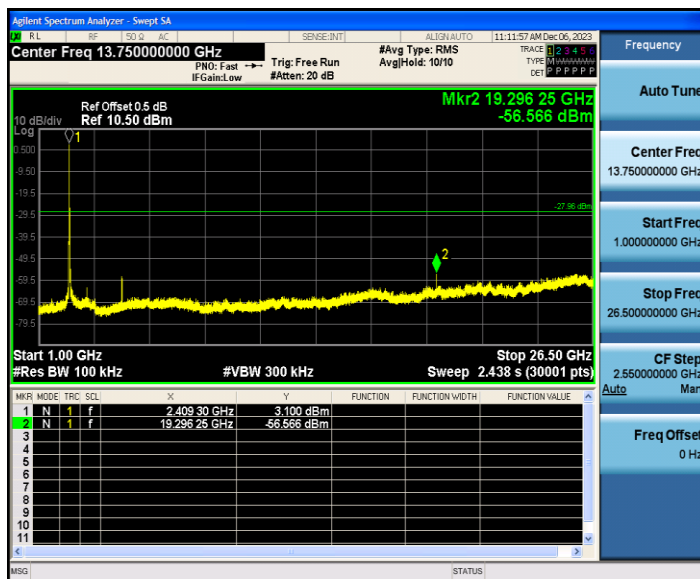
11N20SISO_Ant1_2412_0~Reference



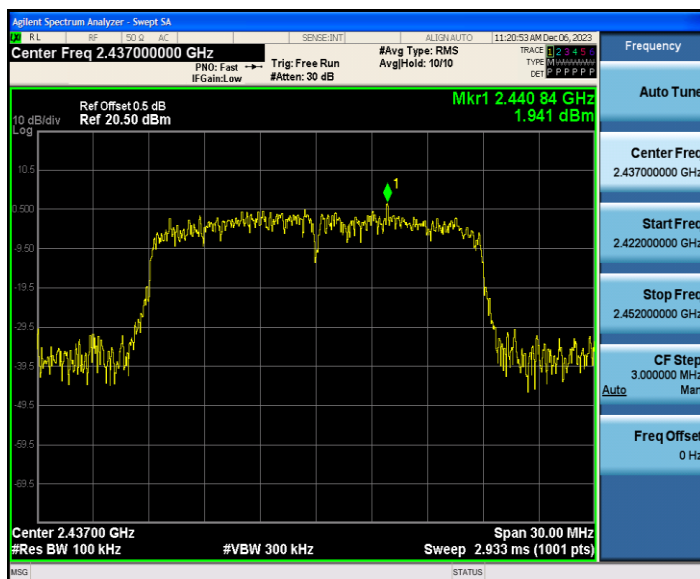
11N20SISO_Ant1_2412_30~1000



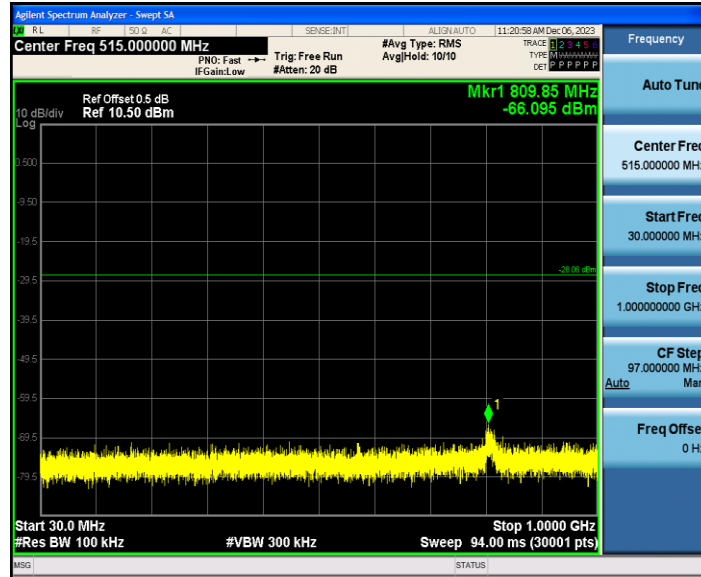
11N20SISO_Ant1_2412_1000~26500



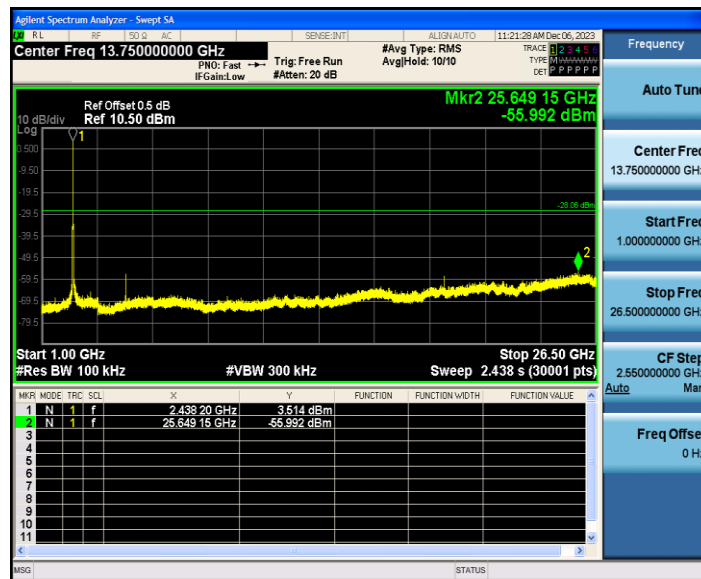
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



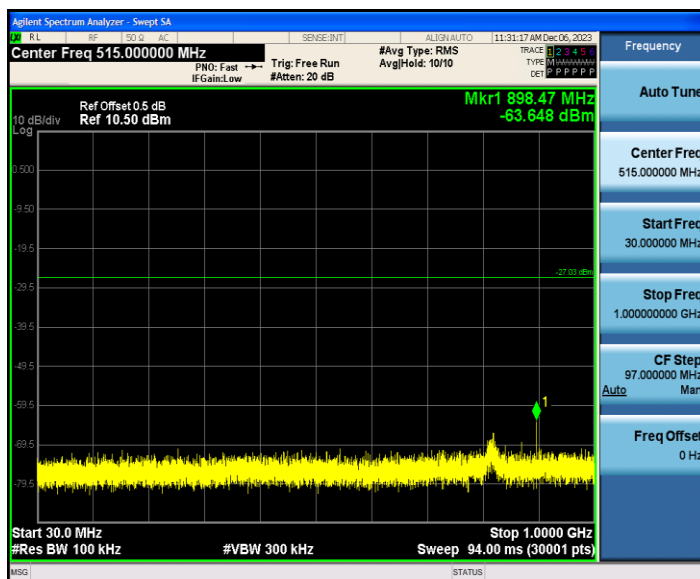
11N20SISO_Ant1_2437_1000~26500



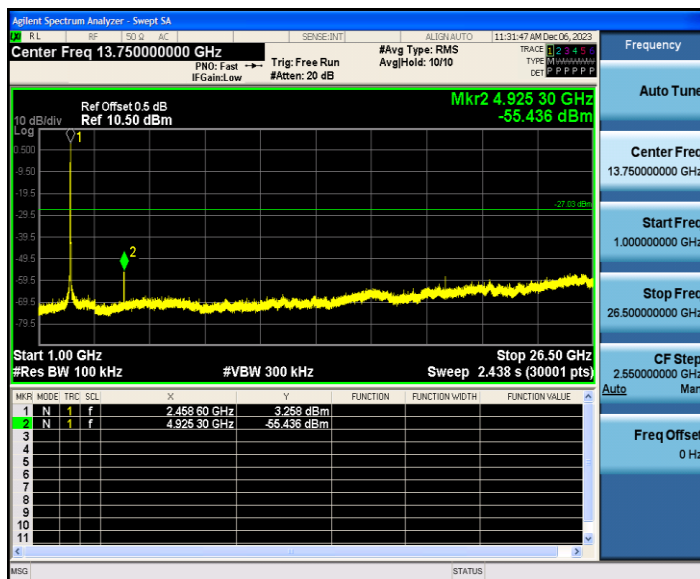
11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



7.6. Radiated Spurious Emission Measurement

7.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 – 0.490	2400/F (kHz)	300
0.490 – 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.6.2. Test Procedure Used

ANSI C63.10-2013 – Section 6.6.4.3

7.6.3. Test Setting

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold

- Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

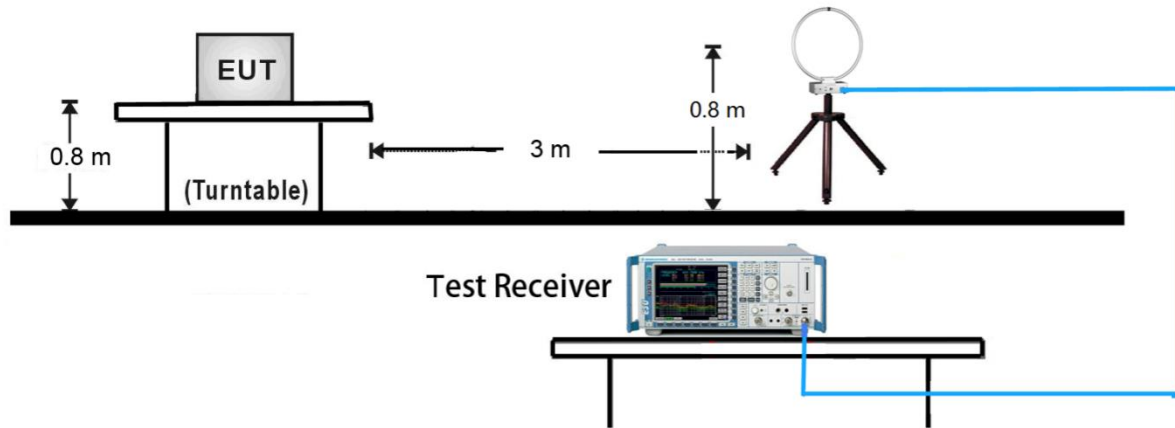
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

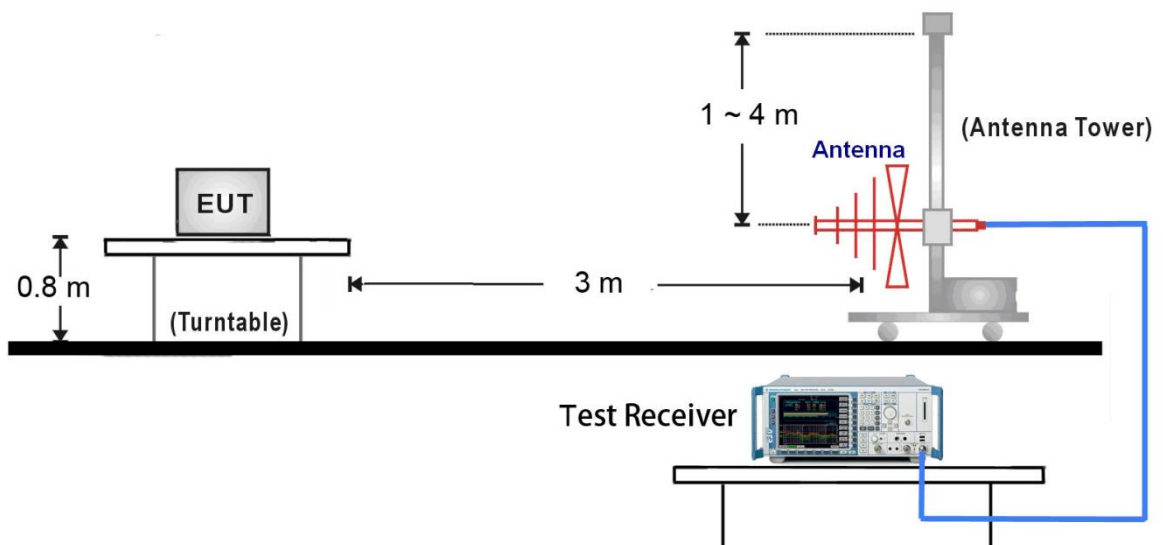
- Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- RBW = 1MHz
- VBW = 3MHz
- Detector = Power Average (RMS)
- Number of sweep point = 2001 (Number of sweep points must be $\geq 2 \times \text{span} / \text{RBW}$)
- Sweep time = auto
- Trace (RMS) averaging was performed over at least 100 traces.

7.6.4. Test Setup

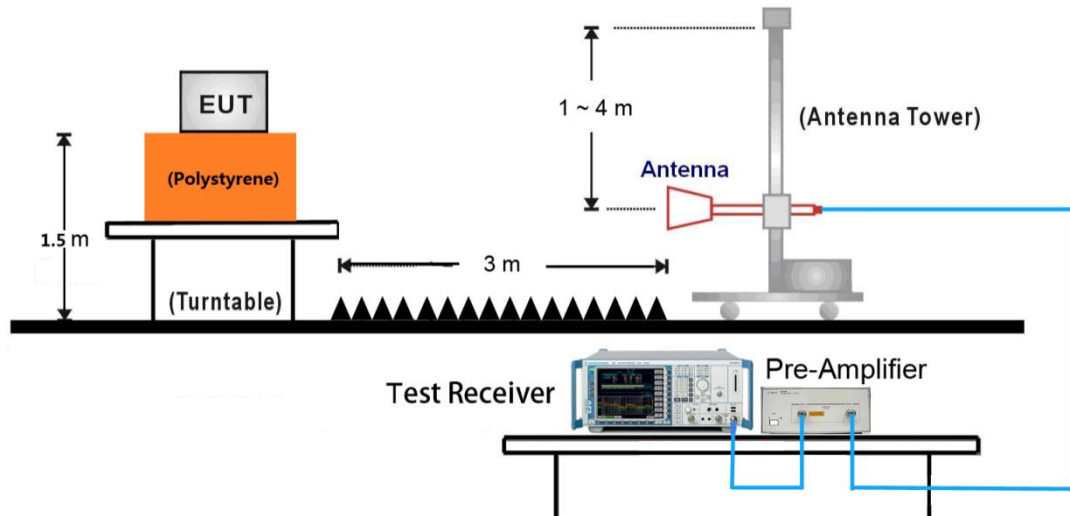
9kHz ~ 30MHz Test Setup:



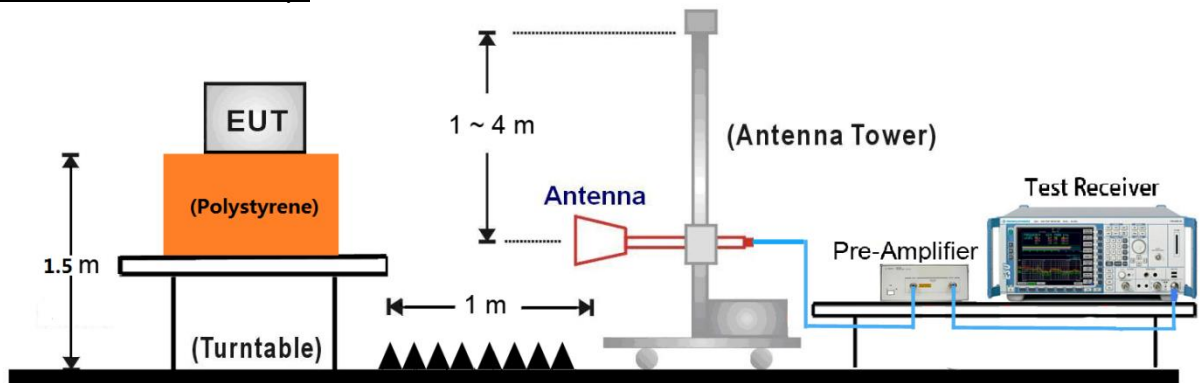
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:



18GHz ~ 25GHz Test Setup:



7.6.5. Test Result

Test Mode:	802.11b	Test Date:	2023-12-01
Test Channel:	2412	Test Engineer:	Chuang Li
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. 3. This is the worst case of Radiated Emission for 1-18GHz.		

Frequency (MHz)	Level (dBμV/m)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
1702.0000	42.18	-0.39	74.00	31.82	Peak	Horizontal
4815.0000	51.44	9.28	74.00	22.56	Peak	Horizontal
7470.0000	52.12	17.07	74.00	21.88	Peak	Horizontal
1420.0000	42.11	-1.32	74.00	31.89	Peak	Vertical
4822.5000	49.41	9.28	74.00	24.59	Peak	Vertical
7020.0000	51.29	16.45	74.00	22.71	Peak	Vertical

Test Mode:	802.11b	Test Date:	2023-12-01
Test Channel:	2437	Test Engineer:	Chuang Li
Remark:	4. Average measurement was not performed if peak level lower than average limit. 5. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. 6. This is the worst case of Radiated Emission for 1-18GHz.		

Frequency (MHz)	Level (dBμV/m)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
1152.0000	46.73	-1.69	74.00	27.27	Peak	Horizontal
3277.5000	43.95	5.71	74.00	30.05	Peak	Horizontal
4875.0000	50.76	9.39	74.00	23.24	Peak	Horizontal
1150.0000	45.41	-1.70	74.00	28.59	Peak	Vertical
4050.0000	46.00	7.29	74.00	28.00	Peak	Vertical
4875.0000	51.40	9.39	74.00	22.60	Peak	Vertical

Test Mode:	802.11b	Test Date:	2023-12-01
Test Channel:	2462	Test Engineer:	Chuang Li
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. 3. This is the worst case of Radiated Emission for 1-18GHz.		

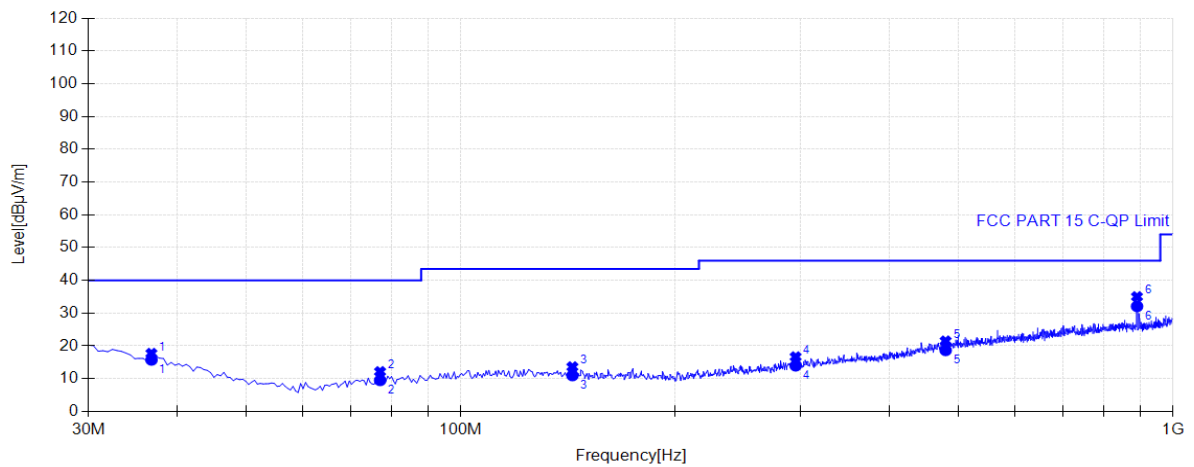
Frequency (MHz)	Level (dBμV/m)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
1152.0000	44.47	-1.69	74.00	29.53	Peak	Horizontal
1708.0000	41.45	-0.38	74.00	32.55	Peak	Horizontal
4920.0000	50.72	9.50	74.00	23.28	Peak	Horizontal
1154.0000	47.92	-1.69	74.00	26.08	Peak	Vertical
1742.0000	41.32	-0.27	74.00	32.68	Peak	Vertical
4920.0000	48.37	9.50	74.00	25.63	Peak	Vertical

The worst case of Radiated Emission below 1GHz:

30MHz – 1GHz Test Data

EUT:	Smart Bridge MZ1	Polarity:	Horizontal
Model:	3RMB01033WBZ	S/N:	/
Mode:	Transmit by 802.11b at Channel 2412MHz	Voltage:	DC5V
Environment:	Temp: 24°C ; Humi:52%	Engineer:	Chuang Li

Test Graph



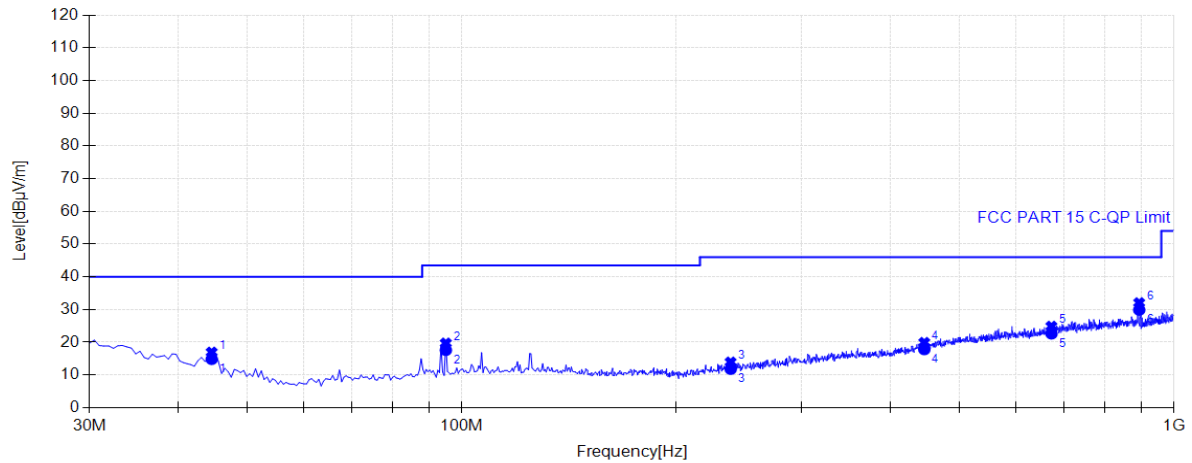
Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.7900	16.04	15.74	40.00	24.26	155	4	Horizontal
2	77.0450	9.29	9.50	40.00	30.50	155	343	Horizontal
3	143.4900	11.13	10.99	43.50	32.51	155	127	Horizontal
4	295.2950	13.54	13.95	46.00	32.05	155	133	Horizontal
5	479.5950	18.39	18.64	46.00	27.36	155	353	Horizontal
6	890.3900	23.96	32.08	46.00	13.92	155	24	Horizontal

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

EUT:	Smart Bridge MZ1	Polarity:	Vertical
Model:	3RMB01033WBZ	S/N:	/
Mode:	Transmit by 802.11b at Channel 2412MHz	Voltage:	DC5V
Environment:	Temp: 24℃; Humi:52%	Engineer:	Chuang Li

Test Graph

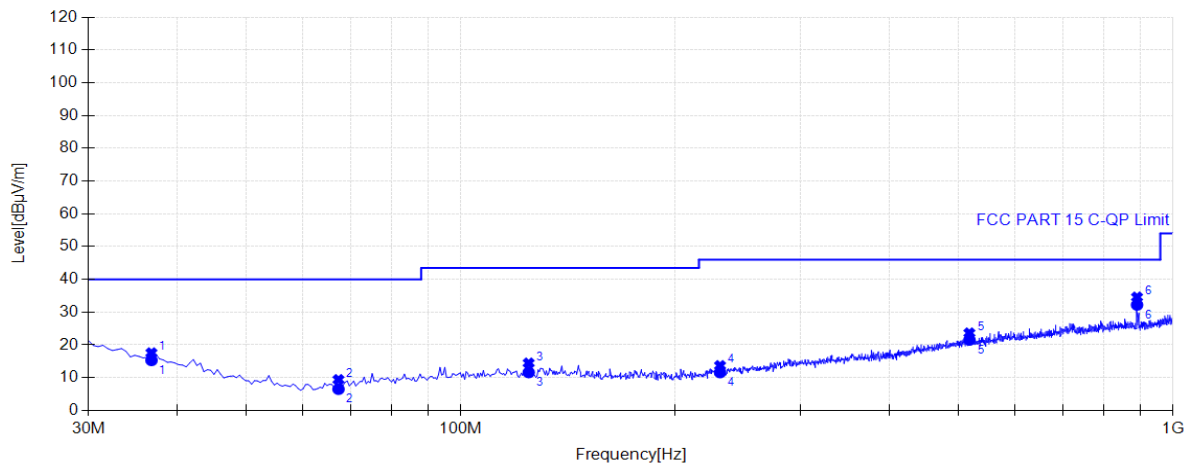


Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.5500	12.09	14.80	40.00	25.20	155	323	Vertical
2	94.9900	10.58	17.57	43.50	25.93	155	7	Vertical
3	238.5500	11.14	11.79	46.00	34.21	155	111	Vertical
4	446.1300	17.47	17.79	46.00	28.21	155	22	Vertical
5	673.1100	21.42	22.59	46.00	23.41	155	77	Vertical
6	893.7850	23.97	29.86	46.00	16.14	155	1	Vertical

30MHz – 1GHz Test Data

EUT:	Smart Bridge MZ1	Polarity:	Horizontal
Model:	3RMB01033WBZ	S/N:	/
Mode:	Transmit by 802.11b at Channel 2437MHz	Voltage:	DC5V
Environment:	Temp: 24°C ; Humi:52%	Engineer:	Chuang Li

Test Graph

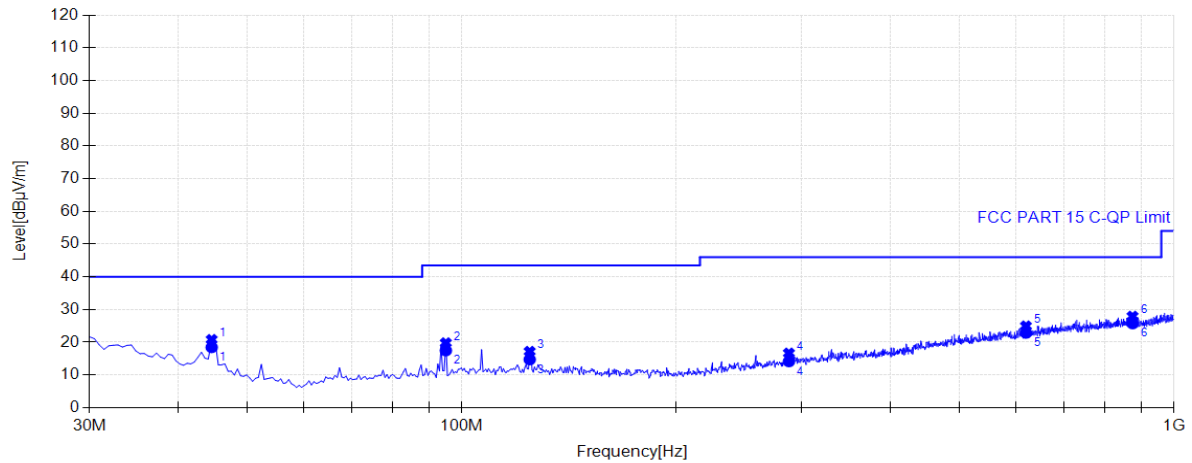


Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.7900	16.04	15.29	40.00	24.71	155	249	Horizontal
2	67.3450	7.95	6.50	40.00	33.50	155	195	Horizontal
3	124.5750	11.54	11.60	43.50	31.90	155	276	Horizontal
4	231.2750	10.87	11.59	46.00	34.41	155	331	Horizontal
5	517.9100	19.19	21.52	46.00	24.48	155	360	Horizontal
6	890.3900	23.96	32.20	46.00	13.80	155	331	Horizontal

EUT:	Smart Bridge MZ1	Polarity:	Vertical
Model:	3RMB01033WBZ	S/N:	/
Mode:	Transmit by 802.11b at Channel 2437MHz	Voltage:	DC5V
Environment:	Temp: 24℃; Humi:52%	Engineer:	Chuang Li

Test Graph



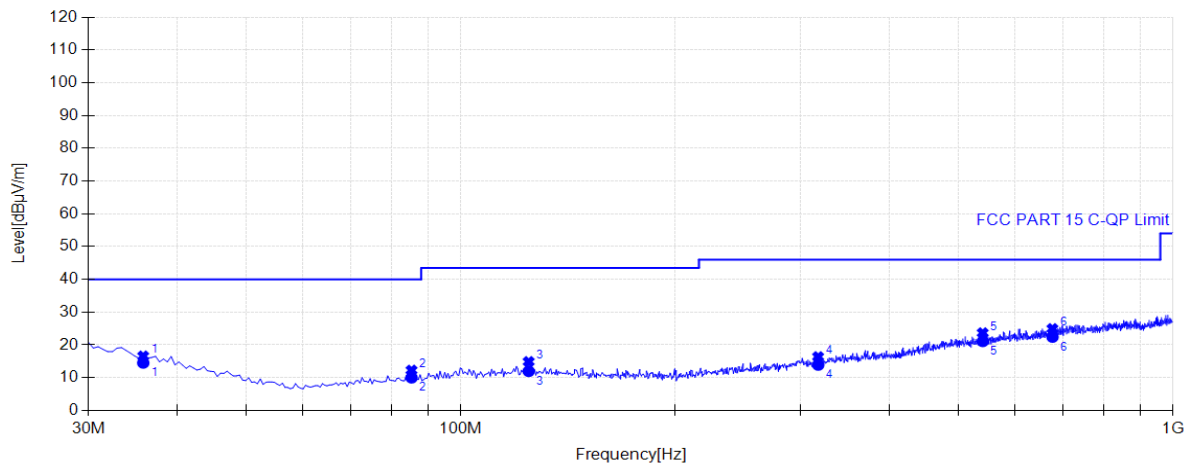
Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.5500	12.09	18.44	40.00	21.56	155	131	Vertical
2	94.9900	10.58	17.46	43.50	26.04	155	16	Vertical
3	124.5750	11.54	14.71	43.50	28.79	155	21	Vertical
4	288.0200	13.23	14.12	46.00	31.88	155	172	Vertical
5	619.7600	20.66	22.83	46.00	23.17	155	329	Vertical
6	874.8700	23.90	25.72	46.00	20.28	155	28	Vertical

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

30MHz – 1GHz Test Data

EUT:	Smart Bridge MZ1	Polarity:	Horizontal
Model:	3RMB01033WBZ	S/N:	/
Mode:	Transmit by 802.11b at Channel 2462MHz	Voltage:	DC5V
Environment:	Temp: 24°C ; Humi:52%	Engineer:	Chuang Li

Test Graph

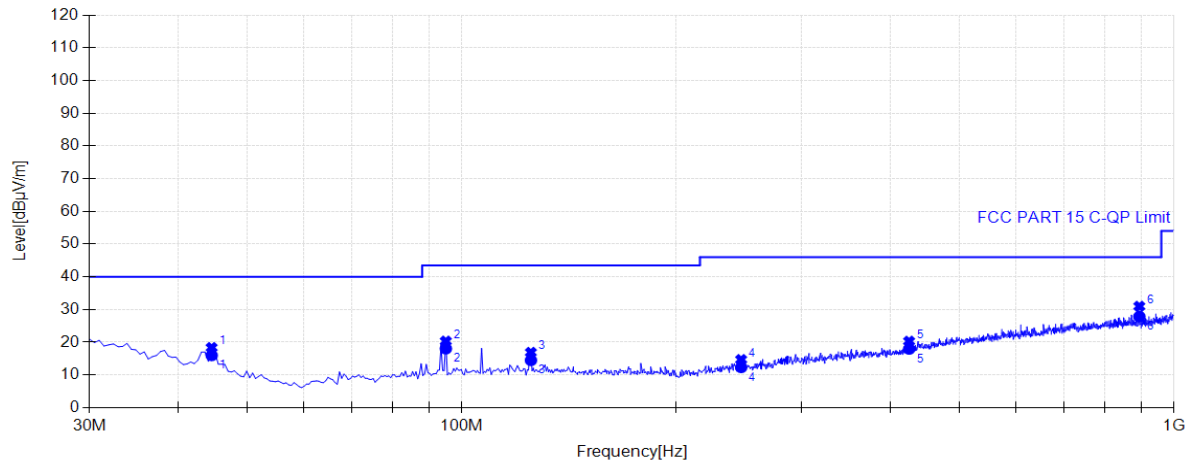


Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.8200	16.53	14.51	40.00	25.49	155	152	Horizontal
2	85.2900	9.81	9.99	40.00	30.01	155	139	Horizontal
3	124.5750	11.54	11.97	43.50	31.53	155	166	Horizontal
4	317.6050	14.16	13.88	46.00	32.12	155	359	Horizontal
5	540.7050	19.51	21.10	46.00	24.90	155	105	Horizontal
6	677.4750	21.48	22.42	46.00	23.58	155	359	Horizontal

EUT:	Smart Bridge MZ1	Polarity:	Vertical
Model:	3RMB01033WBZ	S/N:	/
Mode:	Transmit by 802.11b at Channel 2462MHz	Voltage:	DC5V
Environment:	Temp: 24℃; Humi:52%	Engineer:	Chuang Li

Test Graph



Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.5500	12.09	15.98	40.00	24.02	155	146	Vertical
2	94.9900	10.58	18.04	43.50	25.46	155	12	Vertical
3	125.0600	11.53	14.48	43.50	29.02	155	159	Vertical
4	246.7950	11.46	12.33	46.00	33.67	155	256	Vertical
5	424.7900	16.68	17.94	46.00	28.06	155	229	Vertical
6	894.2700	23.97	27.85	46.00	18.15	155	125	Vertical

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

7.7. Restricted Band Edge Measurement

7.7.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.25 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.7.2. Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.7.3. Test Setting

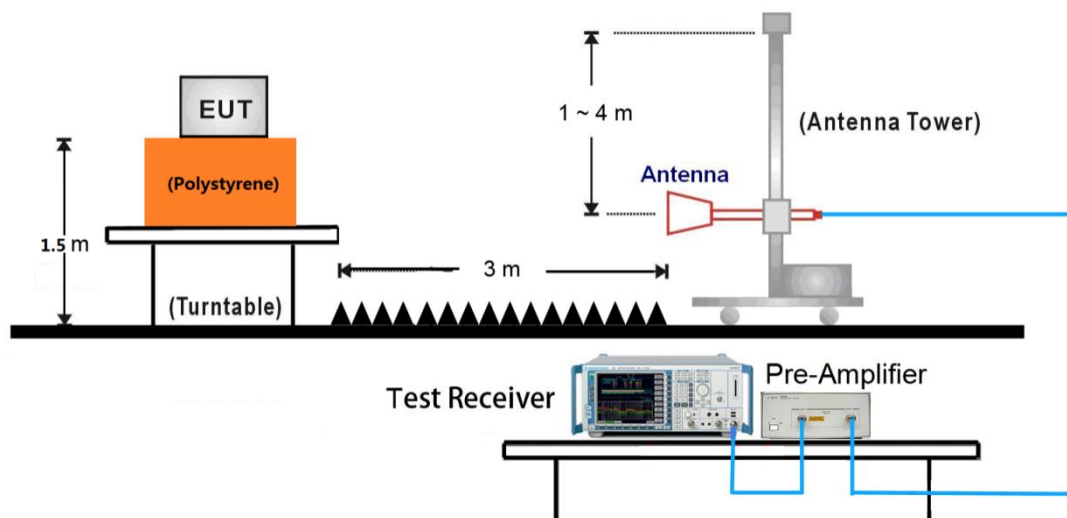
Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Power Average (RMS)
5. Number of sweep point = 2001 (Number of sweep points must be $\geq 2 \times \text{span} / \text{RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

7.7.4. Test Setup

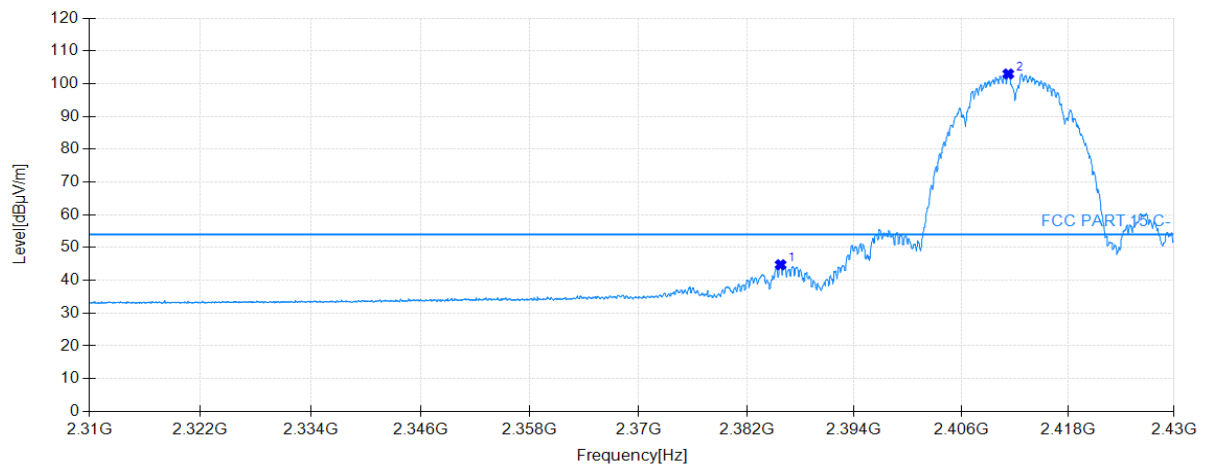


7.7.5. Test Result

802.11b

Test Mode:	802.11b	Test Date:	2023-12-01
Test Channel:	2412	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

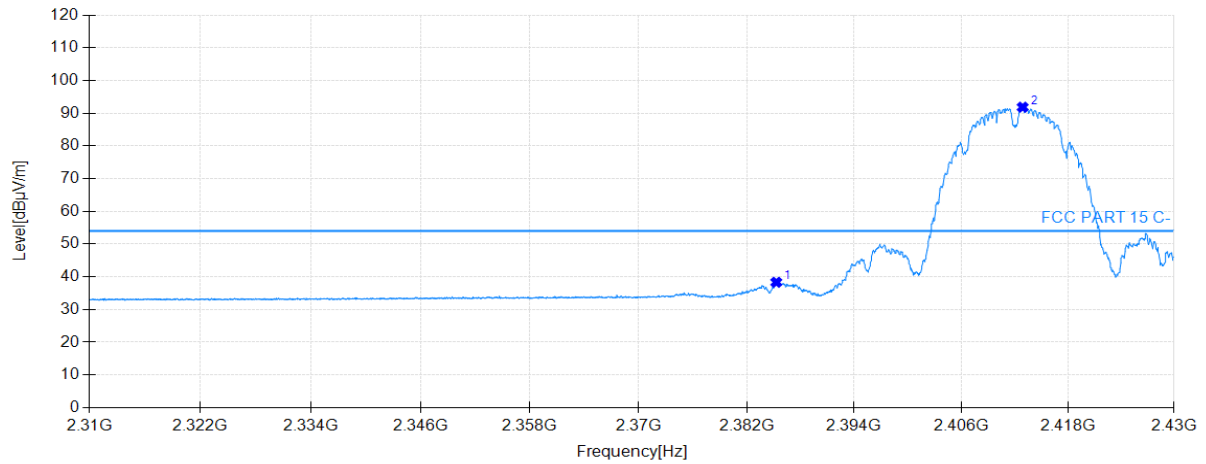
Test Graph



Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2385.78	44.76	32.72	54.00	9.24	155	84	Average	Horizontal
2411.28	102.97	32.85	54.00	-48.97	155	152	Average	Horizontal

Test Mode:	802.11b	Test Date:	2023-12-01
Test Channel:	2412	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

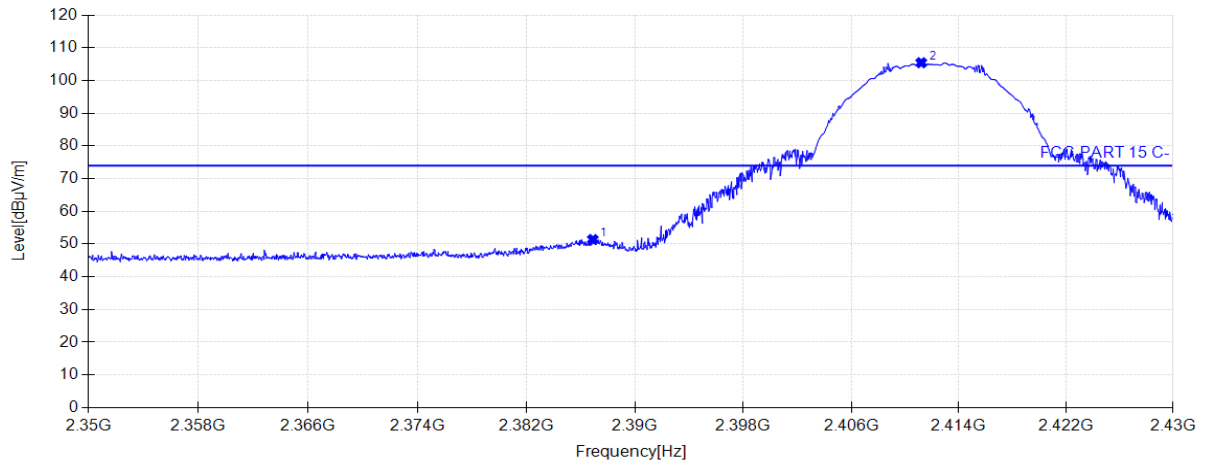
Test Graph



Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2385.30	38.33	32.72	54.00	15.67	155	214	Average	Vertical
2412.90	91.84	32.86	54.00	-37.84	155	207	Average	Vertical

Test Mode:	802.11b	Test Date:	2023-12-01
Test Channel:	2412	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

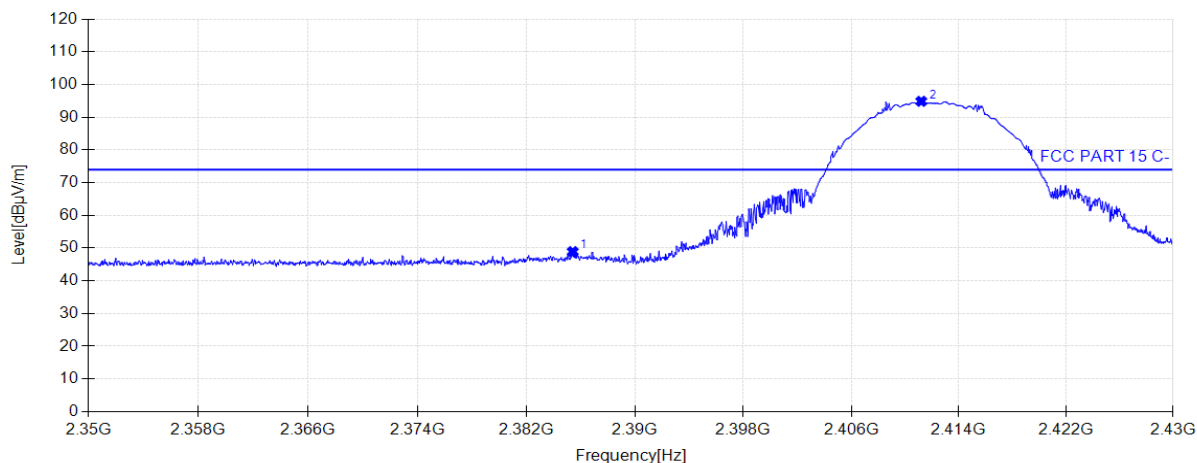
Test Graph



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2386.88	51.40	32.72	74.00	22.60	155	84	Peak	Horizontal
2411.20	105.43	32.85	74.00	-31.43	155	153	Peak	Horizontal

Test Mode:	802.11b	Test Date:	2023-12-01
Test Channel:	2412	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

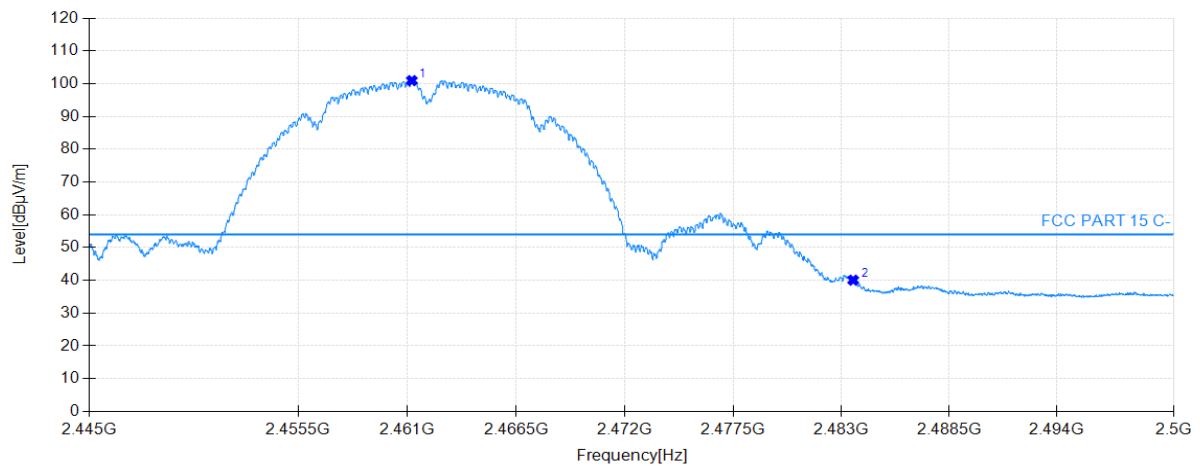
Test Graph



Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2385.40	48.91	32.72	74.00	25.09	155	208	Peak	Vertical
2411.20	94.86	32.85	74.00	-20.86	155	37	Peak	Vertical

Test Mode:	802.11b	Test Date:	2023-12-01
Test Channel:	2462	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

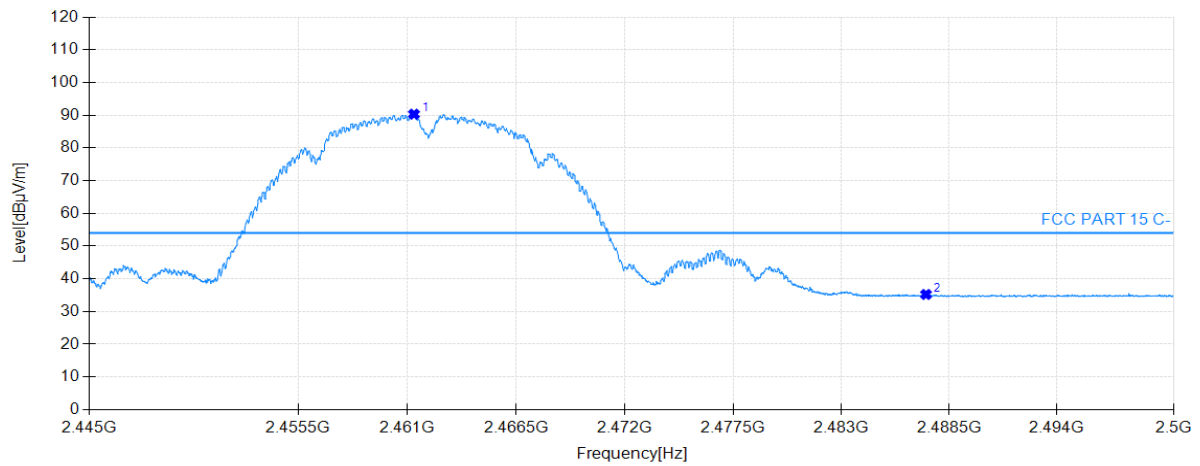
Test Graph



Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2461.22	100.95	33.12	54.00	-46.95	155	152	Average	Horizontal
2483.61	40.06	33.23	54.00	13.94	155	83	Average	Horizontal

Test Mode:	802.11b	Test Date:	2023-12-01
Test Channel:	2462	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

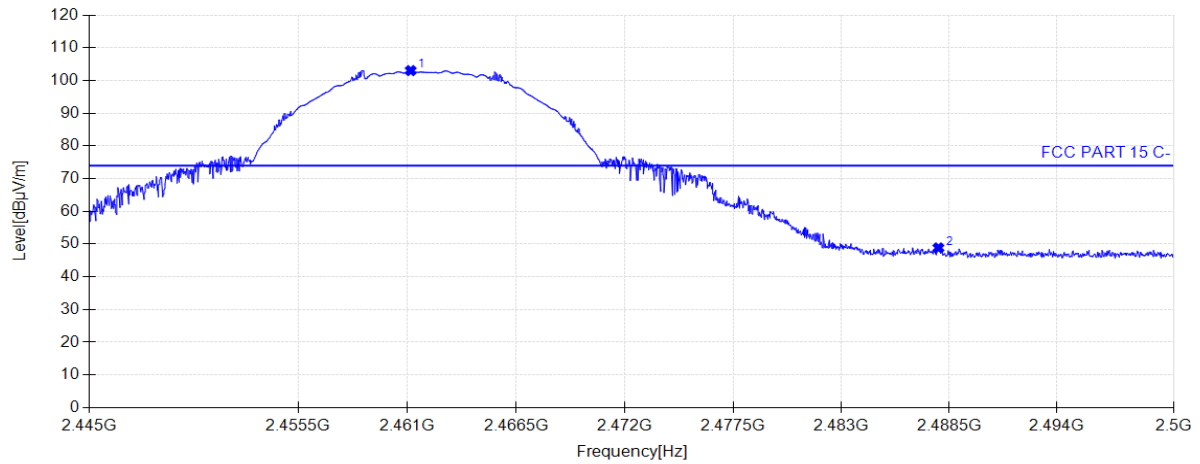
Test Graph



Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2461.33	90.31	33.12	54.00	-36.31	155	145	Average	Vertical
2487.32	35.21	33.25	54.00	18.79	155	201	Average	Vertical

Test Mode:	802.11b	Test Date:	2023-12-01
Test Channel:	2462	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

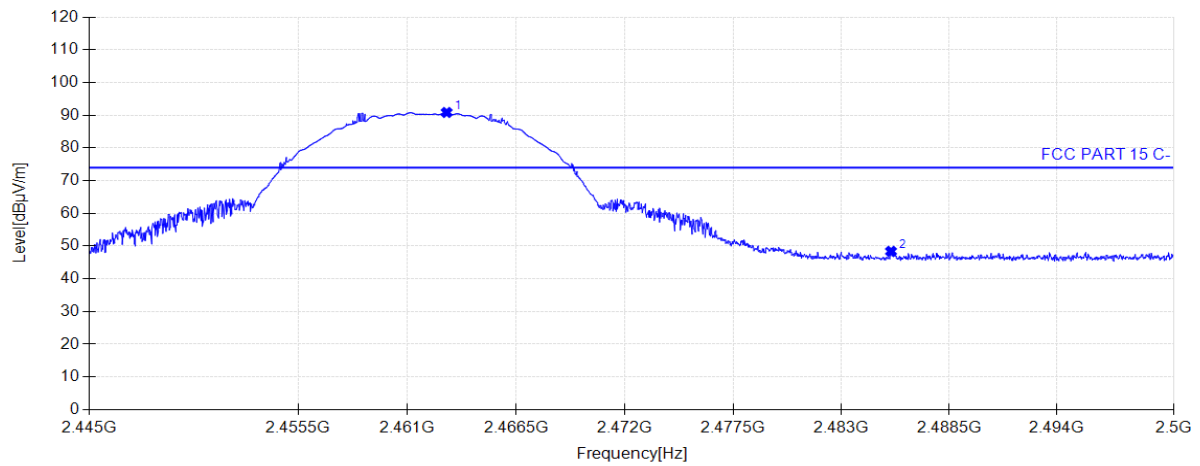
Test Graph



Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2461.17	103.02	33.12	74.00	-29.02	160	146	Peak	Horizontal
2487.95	48.83	33.26	74.00	25.17	160	153	Peak	Horizontal

Test Mode:	802.11b	Test Date:	2023-12-01
Test Channel:	2462	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

Test Graph

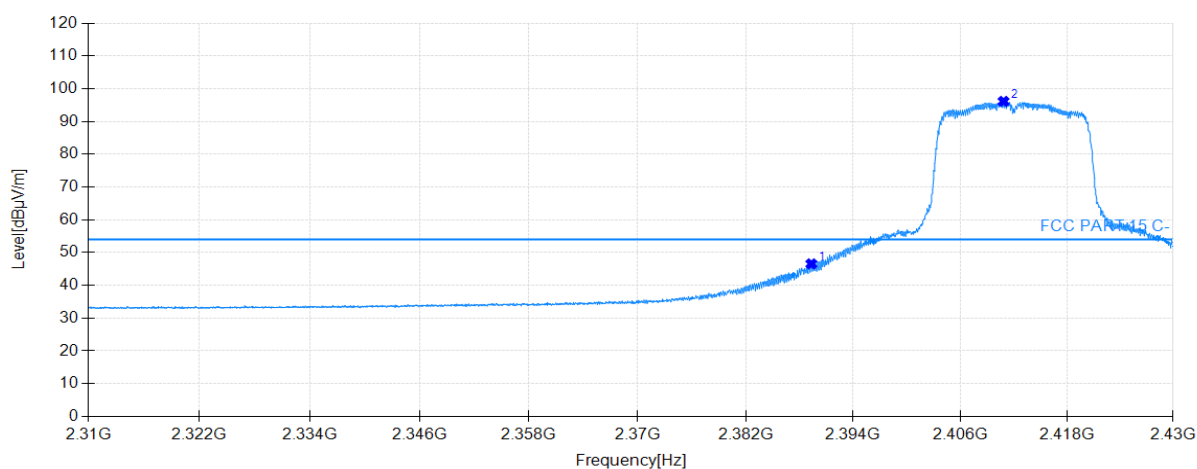


Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2462.98	90.84	33.13	74.00	-16.84	160	193	Peak	Vertical
2485.53	48.39	33.24	74.00	25.61	160	0	Peak	Vertical

802.11g

Test Mode:	802.11g	Test Date:	2023-12-01
Test Channel:	2412	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

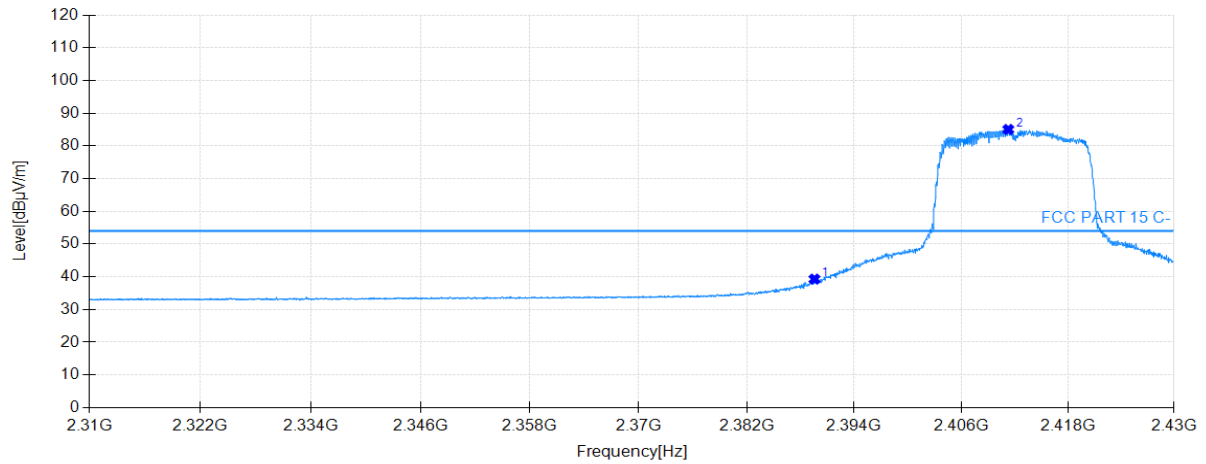
Test Graph



Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2389.32	46.55	32.74	54.00	7.45	155	92	Average	Horizontal
2410.86	96.12	32.85	54.00	-42.12	155	153	Average	Horizontal

Test Mode:	802.11g	Test Date:	2023-12-01
Test Channel:	2412	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

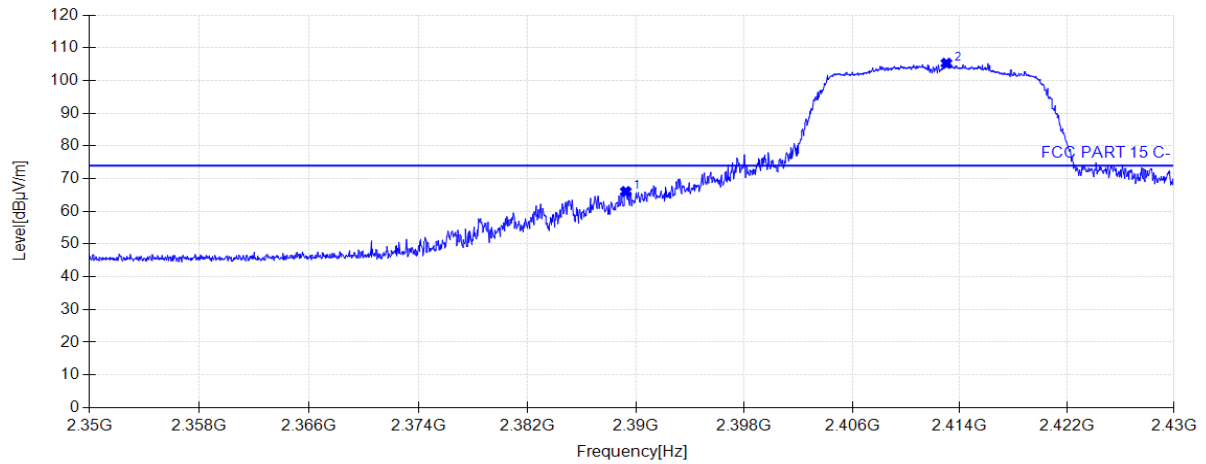
Test Graph



Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2389.56	39.29	32.74	54.00	14.71	155	111	Average	Vertical
2411.28	85.03	32.85	54.00	-31.03	155	111	Average	Vertical

Test Mode:	802.11g	Test Date:	2023-12-01
Test Channel:	2412	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

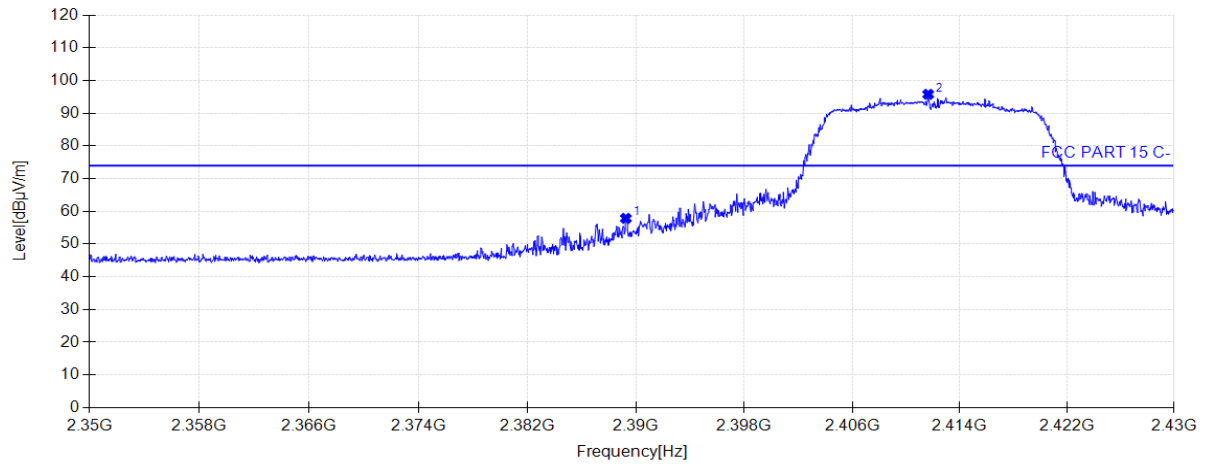
Test Graph



Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2389.24	66.05	32.74	74.00	7.95	155	146	Peak	Horizontal
2413.00	105.27	32.86	74.00	-31.27	155	154	Peak	Horizontal

Test Mode:	802.11g	Test Date:	2023-12-01
Test Channel:	2412	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

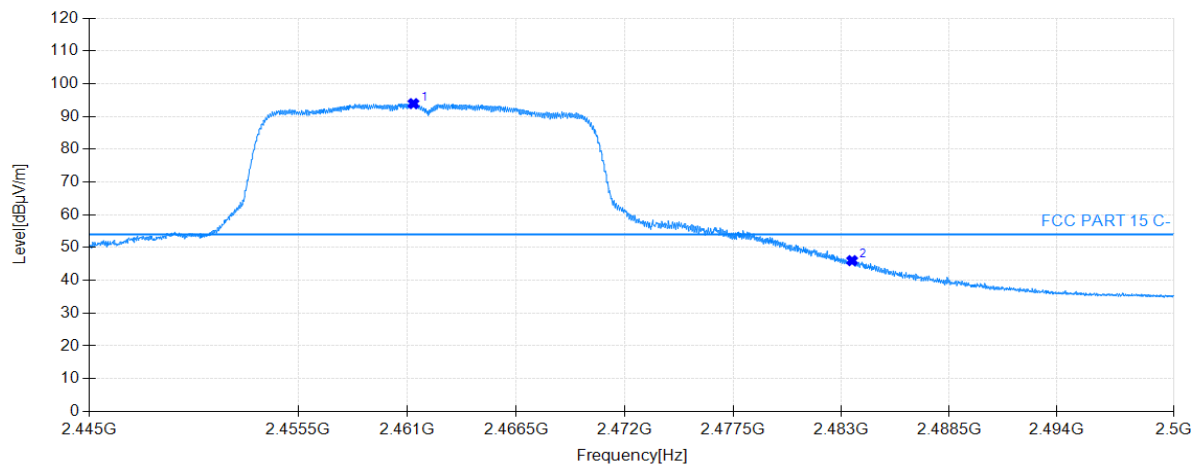
Test Graph



Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2389.24	57.85	32.74	74.00	16.15	155	111	Peak	Vertical
2411.64	95.78	32.86	74.00	-21.78	155	111	Peak	Vertical

Test Mode:	802.11g	Test Date:	2023-12-01
Test Channel:	2462	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

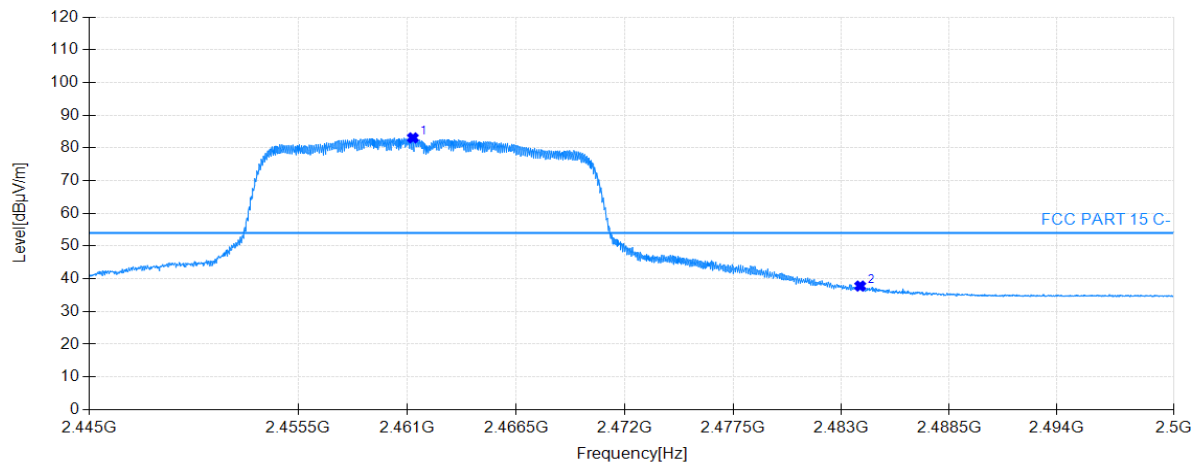
Test Graph



Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2461.30	93.92	33.12	54.00	-39.92	155	147	Average	Horizontal
2483.55	46.01	33.23	54.00	7.99	155	147	Average	Horizontal

Test Mode:	802.11g	Test Date:	2023-12-01
Test Channel:	2462	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

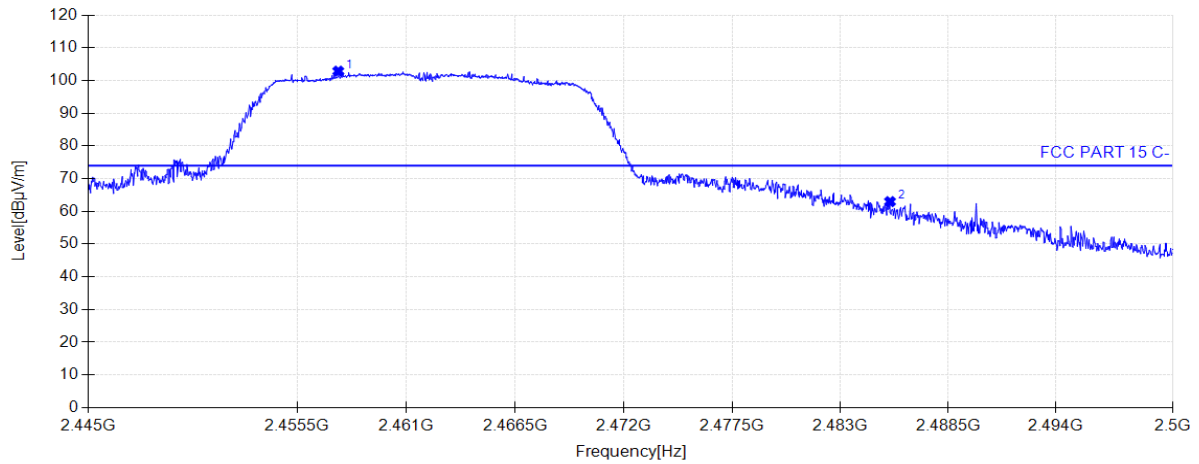
Test Graph



Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2461.28	83.07	33.12	54.00	-29.07	155	144	Average	Vertical
2483.96	37.78	33.24	54.00	16.22	155	144	Average	Vertical

Test Mode:	802.11g	Test Date:	2023-12-01
Test Channel:	2462	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

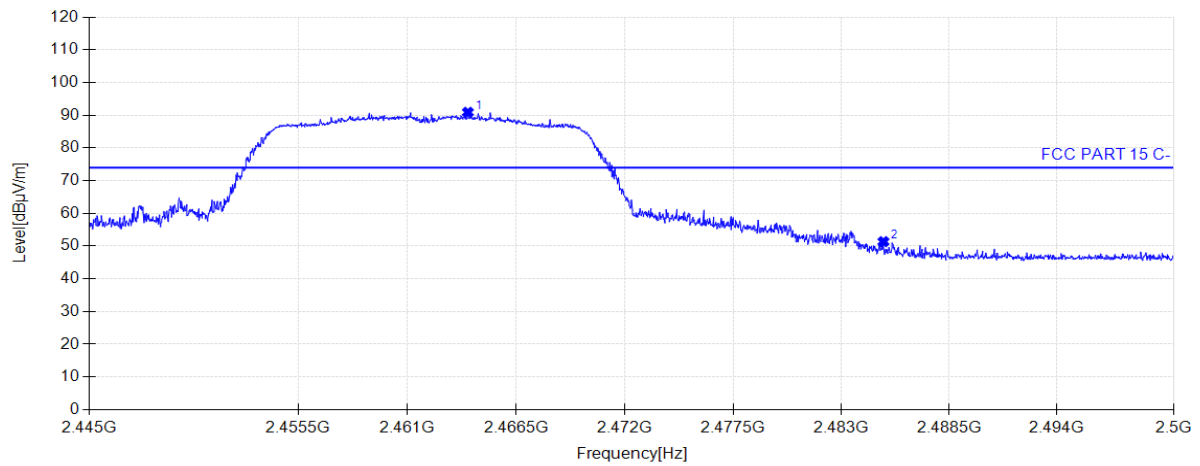
Test Graph



Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2385.78	2457.5675	102.85	33.10	74.00	-28.85	160	146	Horizontal
2411.28	2485.5350	62.98	33.24	74.00	11.02	160	180	Horizontal

Test Mode:	802.11g	Test Date:	2023-12-01
Test Channel:	2462	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

Test Graph

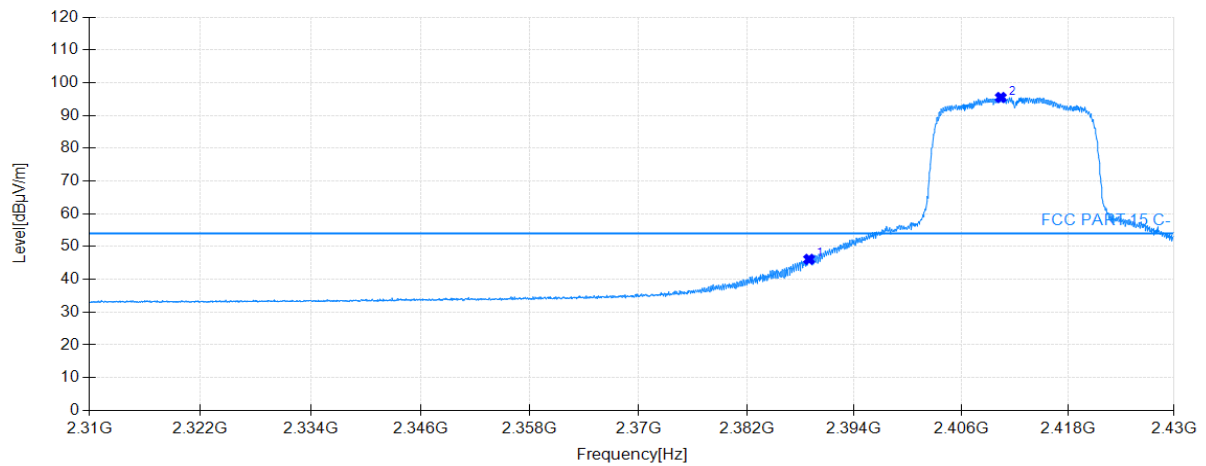


Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2464.05	90.89	33.13	74.00	-16.89	160	192	Peak	Vertical
2485.15	51.35	33.24	74.00	22.65	160	70	Peak	Vertical

802.11n20SISO

Test Mode:	802.11n20SISO	Test Date:	2023-12-01
Test Channel:	2412	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

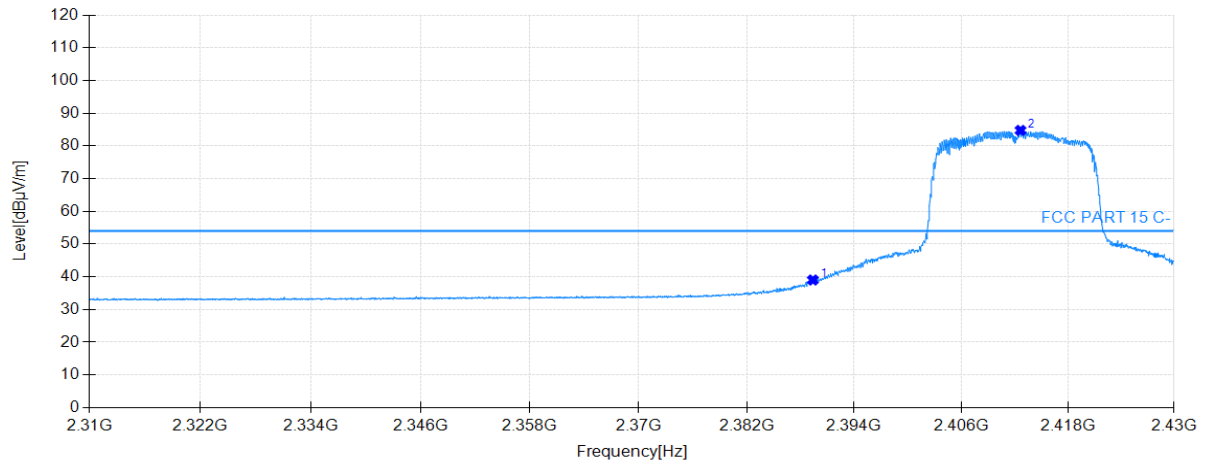
Test Graph



Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2388.96	46.12	32.74	54.00	7.88	155	92	Average	Horizontal
2410.44	95.48	32.85	54.00	-41.48	155	153	Average	Horizontal

Test Mode:	802.11n20SISO	Test Date:	2023-12-01
Test Channel:	2412	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

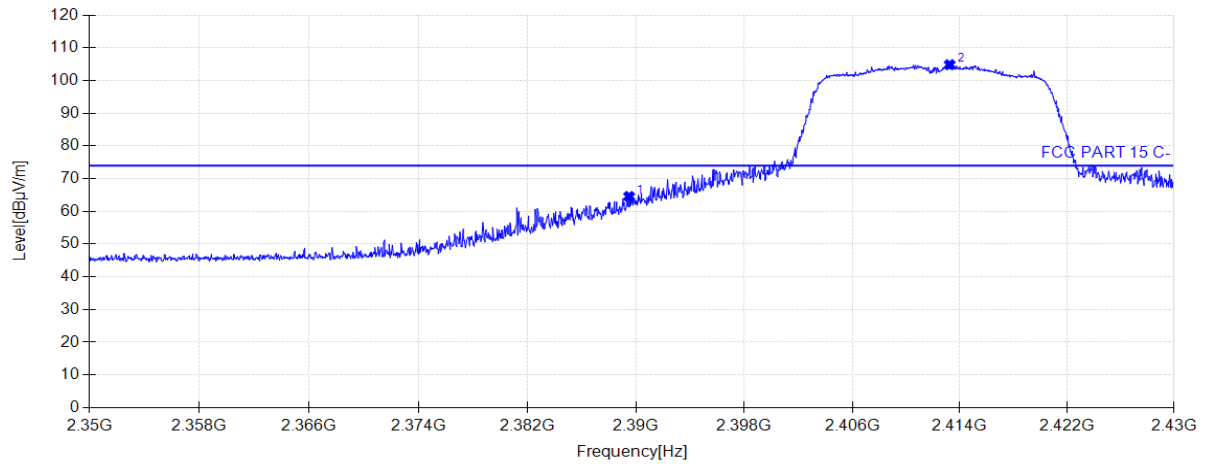
Test Graph



Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2389.38	39.02	32.74	54.00	14.98	155	118	Average	Vertical
2412.66	84.75	32.86	54.00	-30.75	155	111	Average	Vertical

Test Mode:	802.11n20SISO	Test Date:	2023-12-01
Test Channel:	2412	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

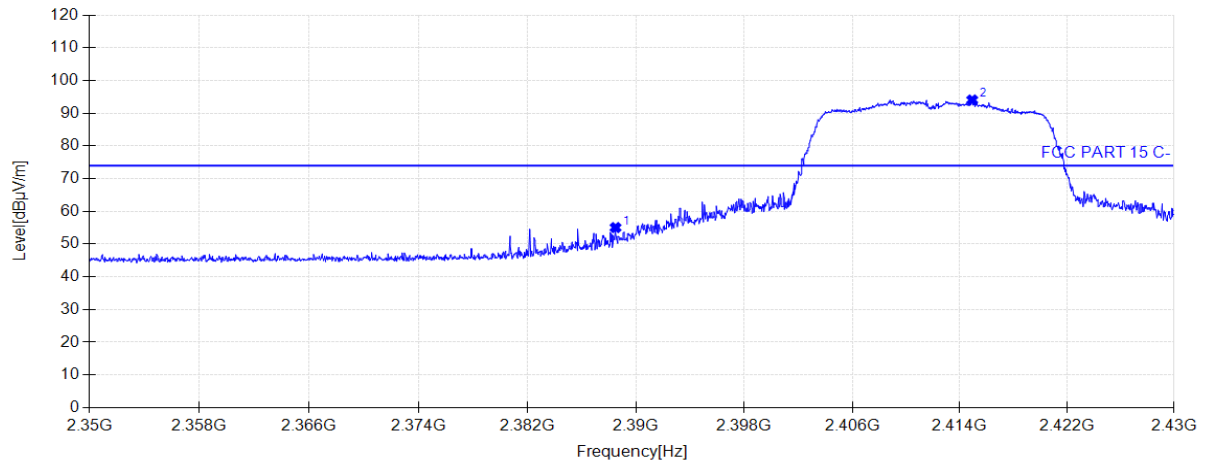
Test Graph



Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2389.48	64.55	32.74	74.00	9.45	155	153	Peak	Horizontal
2413.24	104.82	32.86	74.00	-30.82	155	153	Peak	Horizontal

Test Mode:	802.11n20SISO	Test Date:	2023-12-01
Test Channel:	2412	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

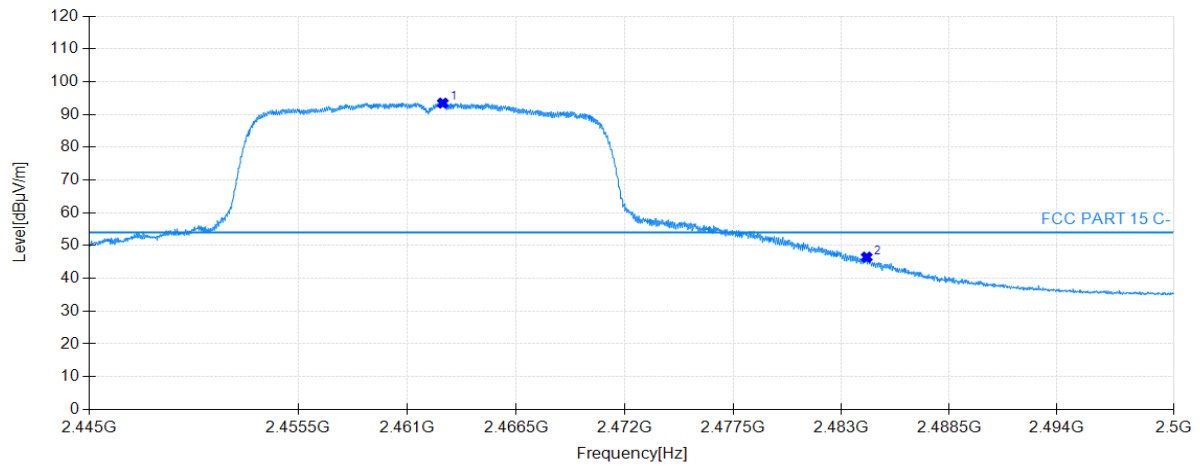
Test Graph



Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2388.48	55.05	32.73	74.00	18.95	155	117	Peak	Vertical
2414.92	94.05	32.87	74.00	-20.05	155	110	Peak	Vertical

Test Mode:	802.11n20SISO	Test Date:	2023-12-01
Test Channel:	2462	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

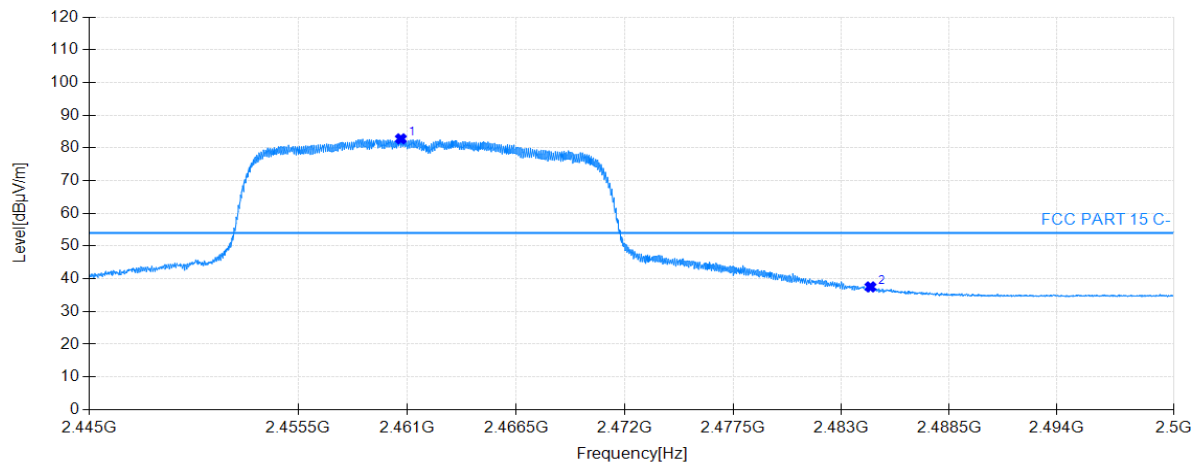
Test Graph



Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2462.79	93.46	33.12	54.00	-39.46	155	153	Average	Horizontal
2484.29	46.47	33.24	54.00	7.53	155	147	Average	Horizontal

Test Mode:	802.11n20SISO	Test Date:	2023-12-01
Test Channel:	2462	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

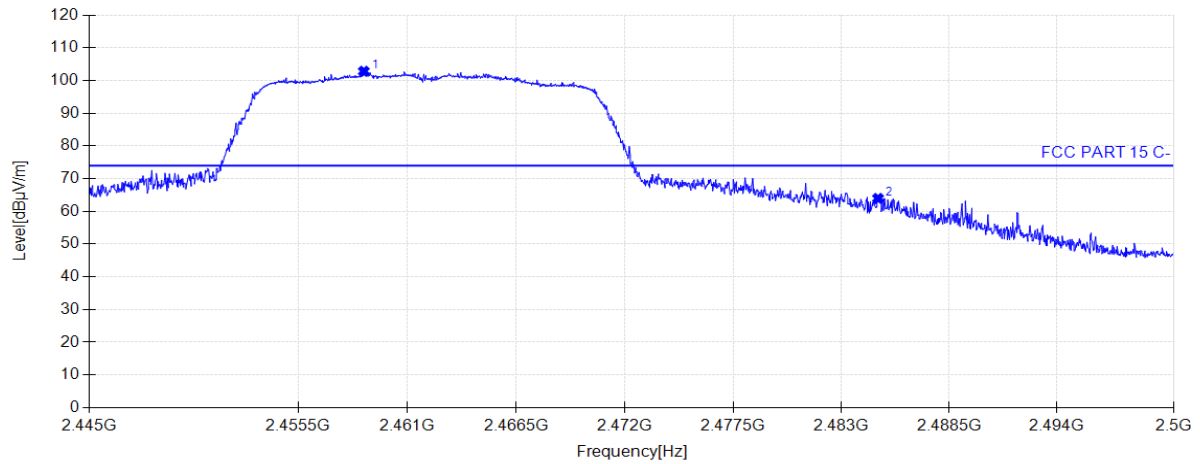
Test Graph



Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2460.67	82.78	33.11	54.00	-28.78	155	144	Average	Vertical
2484.49	37.52	33.24	54.00	16.48	155	144	Average	Vertical

Test Mode:	802.11n20SISO	Test Date:	2023-12-01
Test Channel:	2462	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

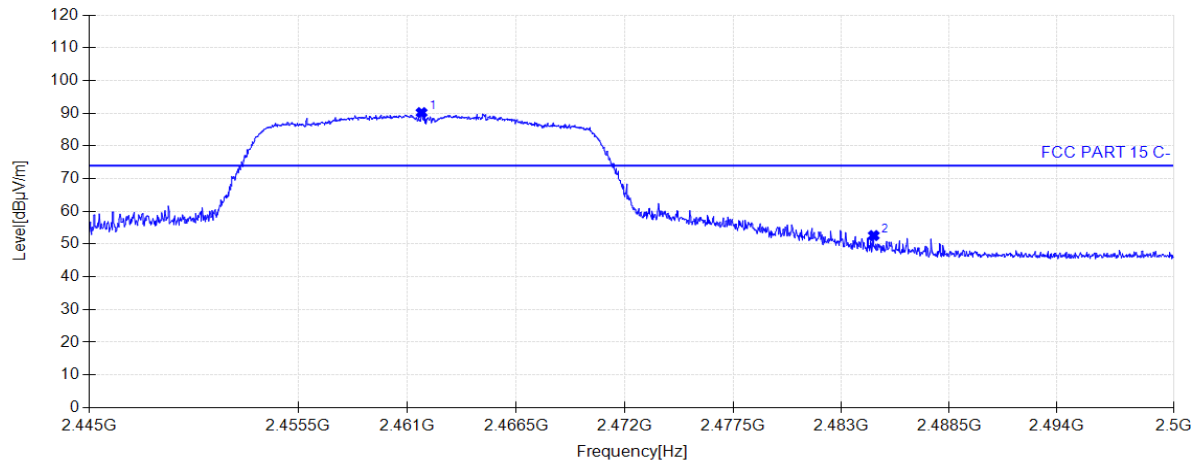
Test Graph



Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2458.80	102.82	33.10	74.00	-28.82	160	85	Peak	Horizontal
2484.87	63.95	33.24	74.00	10.05	160	154	Peak	Horizontal

Test Mode:	802.11n20SISO	Test Date:	2023-12-01
Test Channel:	2462	Test Engineer:	Chuang Li
Remark:	The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.		

Test Graph



Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2461.72	90.17	33.12	74.00	-16.17	160	146	Peak	Vertical
2484.65	52.60	33.24	74.00	21.40	160	153	Peak	Vertical

7.8. AC Conducted Emissions Measurement

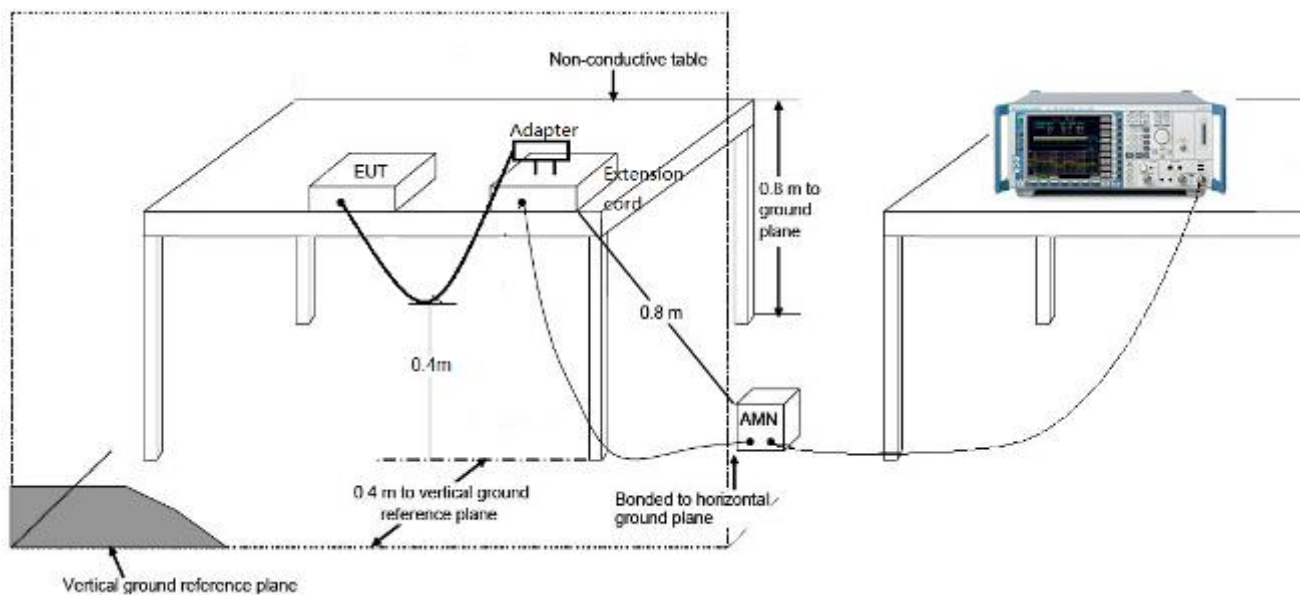
7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

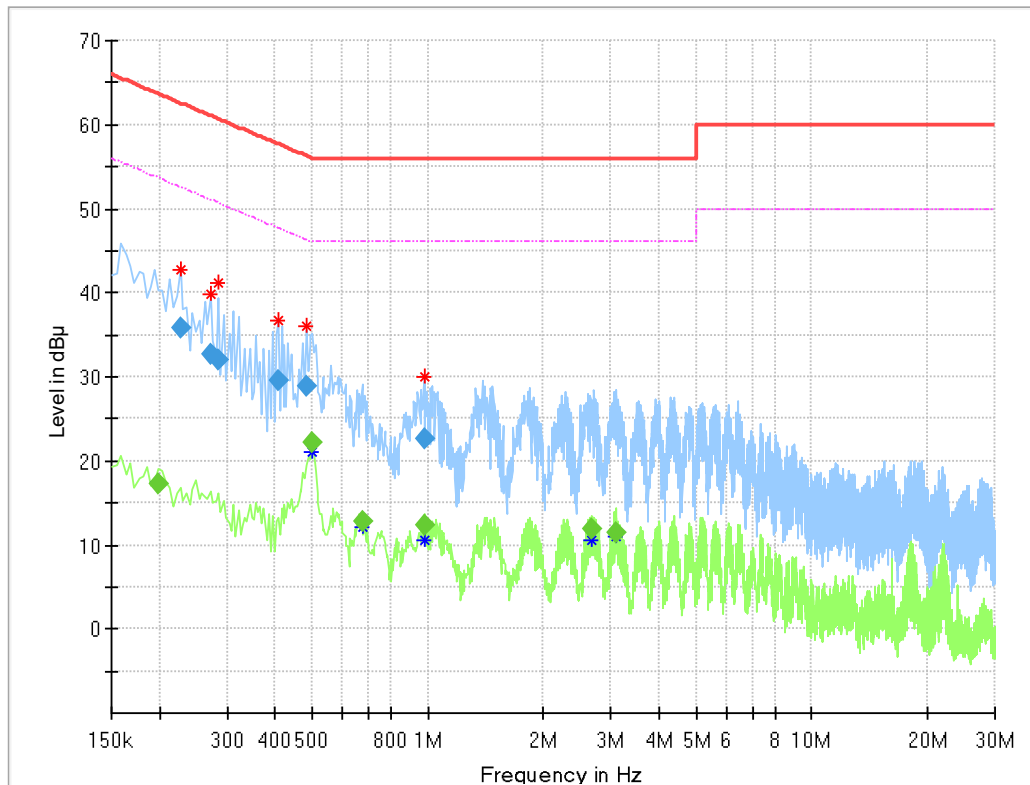
7.8.2. Test Setup



7.8.3. Test Result

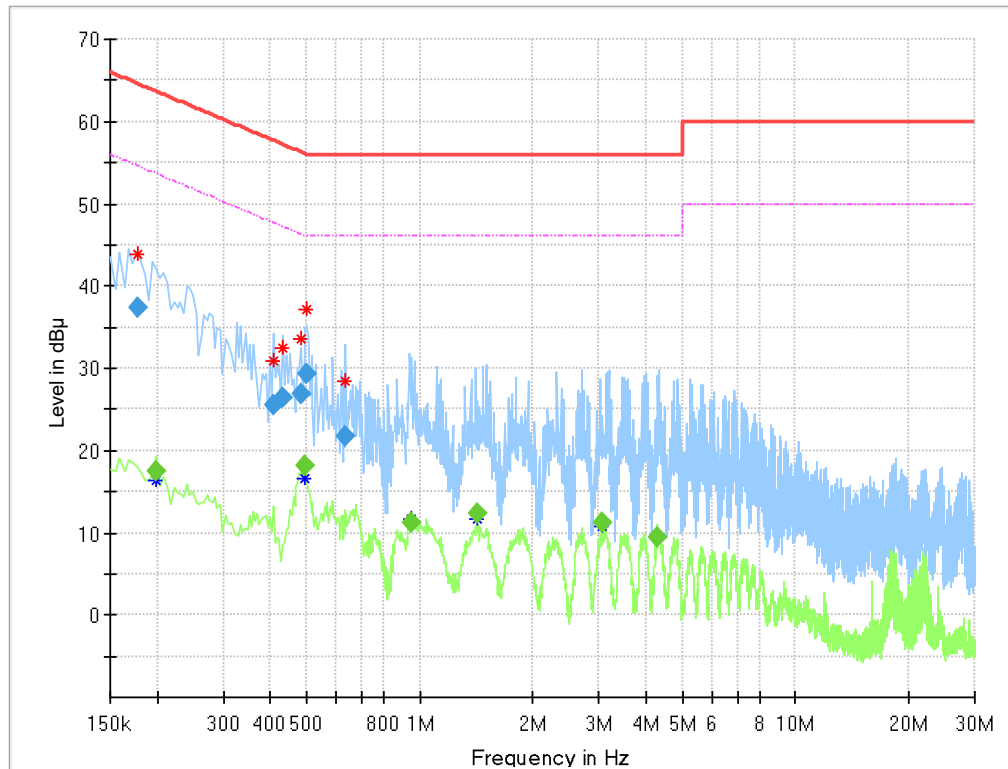
The worst case of Conducted Emissions:

EUT:	Smart Bridge MZ1	Polarity:	LINE
Model:	3RMB01033WBZ	Power Supply:	ADS-36MG-12
Voltage:	120V/60Hz	Engineer:	Amos Xia
Environment:	Temp: 24°C ; Humi:52%		



Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.199500	---	17.23	53.63	36.40	100.0	9.000	L1	ON	9.6
0.226500	35.71	---	62.58	26.87	100.0	9.000	L1	ON	9.6
0.271500	32.77	---	61.07	28.30	100.0	9.000	L1	ON	9.6
0.285000	32.08	---	60.67	28.58	100.0	9.000	L1	ON	9.6
0.406500	29.59	---	57.72	28.13	100.0	9.000	L1	ON	9.6
0.483000	28.90	---	56.29	27.38	100.0	9.000	L1	ON	9.6
0.501000	---	22.11	46.00	23.89	100.0	9.000	L1	ON	9.6
0.676500	---	12.81	46.00	33.19	100.0	9.000	L1	ON	9.6
0.978000	---	12.46	46.00	33.54	100.0	9.000	L1	ON	9.6
0.978000	22.71	---	56.00	33.29	100.0	9.000	L1	ON	9.6
2.683500	---	11.89	46.00	34.11	100.0	9.000	L1	ON	9.6
3.084000	---	11.38	46.00	34.62	100.0	9.000	L1	ON	9.6

EUT:	Smart Bridge MZ1	Polarity:	NEUTRAL
Model:	3RMB01033WBZ	Power Supply:	ADS-36MG-12
Voltage:	120V/60Hz	Engineer:	Amos Xia
Environment:	Temp: 24°C; Humi:52%		



Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.177000	37.33	---	64.63	27.30	100.0	9.000	N	ON	9.6
0.199500	---	17.56	53.63	36.07	100.0	9.000	N	ON	9.6
0.406500	25.59	---	57.72	32.13	100.0	9.000	N	ON	9.6
0.433500	26.53	---	57.19	30.66	100.0	9.000	N	ON	9.6
0.483000	26.90	---	56.29	29.39	100.0	9.000	N	ON	9.6
0.496500	---	18.11	46.06	27.95	100.0	9.000	N	ON	9.6
0.501000	29.39	---	56.00	26.61	100.0	9.000	N	ON	9.6
0.636000	21.65	---	56.00	34.35	100.0	9.000	N	ON	9.6
0.951000	---	11.27	46.00	34.73	100.0	9.000	N	ON	9.6
1.423500	---	12.29	46.00	33.71	100.0	9.000	N	ON	9.6
3.052500	---	11.17	46.00	34.83	100.0	9.000	N	ON	9.6
4.303500	---	9.42	46.00	36.58	100.0	9.000	N	ON	9.7

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **Smart Bridge MZ1** is in compliance with Part 15C of the FCC Rules.

_____ The End _____