

Test Mode:	802.11b	Test Date:	2024-07-05
Test Channel:	11-2462MHz	Test Engineer:	Stone Zhang
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
1117.3333	43.96	-19.03	74.00	30.04	Peak	Horizontal
2130.6667	42.56	-12.53	74.00	31.44	Peak	Horizontal
4920.0000	54.98	-1.48	74.00	19.02	Peak	Horizontal
7385.0000	48.98	0.61	74.00	25.02	Peak	Horizontal
1113.3333	47.35	-17.95	74.00	26.65	Peak	Vertical
2137.3333	45.92	-12.14	74.00	28.08	Peak	Vertical
4920.0000	48.05	-2.10	74.00	25.95	Peak	Vertical
7385.0000	48.91	0.56	74.00	25.09	Peak	Vertical

Test Mode:	802.11g	Test Date:	2024-07-05
Test Channel:	01-2412MHz	Test Engineer:	Stone Zhang
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
1114.6667	41.16	-19.05	74.00	32.84	Peak	Horizontal
2125.3333	46.23	-12.56	74.00	27.77	Peak	Horizontal
4825.0000	44.84	-1.99	74.00	29.16	Peak	Horizontal
6005.0000	46.16	0.08	74.00	27.84	Peak	Horizontal
1117.3333	46.97	-17.93	74.00	27.03	Peak	Vertical
2125.3333	51.99	-12.18	74.00	22.01	Peak	Vertical
5300.0000	44.95	-1.22	74.00	29.05	Peak	Vertical
9345.0000	50.29	4.56	74.00	23.71	Peak	Vertical

Test Mode:	802.11g	Test Date:	2024-07-05
Test Channel:	06-2437MHz	Test Engineer:	Stone Zhang
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
1113.3333	43.37	-19.06	74.00	30.63	Peak	Horizontal
2125.3333	42.96	-12.56	74.00	31.04	Peak	Horizontal
4870.0000	47.08	-1.77	74.00	26.92	Peak	Horizontal
7025.0000	47.06	0.12	74.00	26.94	Peak	Horizontal
1118.6667	44.72	-17.92	74.00	29.28	Peak	Vertical
2124.0000	48.92	-12.19	74.00	25.08	Peak	Vertical
4875.0000	44.59	-2.30	74.00	29.41	Peak	Vertical
7025.0000	47.26	0.21	74.00	26.74	Peak	Vertical

Test Mode:	802.11g	Test Date:	2024-07-05
Test Channel:	11-2462MHz	Test Engineer:	Stone Zhang
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
1114.6667	43.33	-19.05	74.00	30.67	Peak	Horizontal
1596.0000	40.92	-16.10	74.00	33.08	Peak	Horizontal
4925.0000	46.14	-1.46	74.00	27.86	Peak	Horizontal
8265.0000	49.21	2.44	74.00	24.79	Peak	Horizontal
1061.3333	46.27	-18.22	74.00	27.73	Peak	Vertical
1725.3333	45.88	-14.42	74.00	28.12	Peak	Vertical
5070.0000	44.81	-1.78	74.00	29.19	Peak	Vertical
7000.0000	48.25	0.24	74.00	25.75	Peak	Vertical

Test Mode:	802.11n-HT20	Test Date:	2024-07-05
Test Channel:	01-2412MHz	Test Engineer:	Stone Zhang
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 (dB μ V/m)	Factor (dB)	Limit (dB μ V/m)	Margin (dB)	Detector	Polarization
1117.3333	41.50	-19.03	74.00	32.50	Peak	Horizontal
1953.3333	40.81	-13.49	74.00	33.19	Peak	Horizontal
4940.0000	45.35	-1.42	74.00	28.65	Peak	Horizontal
7985.0000	49.82	2.38	74.00	24.18	Peak	Horizontal
1064.0000	47.00	-18.20	74.00	27.00	Peak	Vertical
2128.0000	45.34	-12.17	74.00	28.66	Peak	Vertical
5380.0000	45.48	-0.97	74.00	28.52	Peak	Vertical
7430.0000	48.82	0.55	74.00	25.18	Peak	Vertical

Test Mode:	802.11n-HT20	Test Date:	2024-07-05
Test Channel:	06-2437MHz	Test Engineer:	Stone Zhang
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
1117.3333	41.28	-19.03	74.00	32.72	Peak	Horizontal
1594.6667	38.50	-16.11	74.00	35.50	Peak	Horizontal
4870.0000	48.52	-1.77	74.00	25.48	Peak	Horizontal
8715.0000	50.88	3.08	74.00	23.12	Peak	Horizontal
1152.0000	45.73	-17.74	74.00	28.27	Peak	Vertical
1817.3333	46.96	-13.74	74.00	27.04	Peak	Vertical
4870.0000	44.53	-2.34	74.00	29.47	Peak	Vertical
7405.0000	47.99	0.48	74.00	26.01	Peak	Vertical

Test Mode:	802.11n-HT20	Test Date:	2024-07-05
Test Channel:	11-2462MHz	Test Engineer:	Stone Zhang
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
1117.3333	44.66	-19.03	74.00	29.34	Peak	Horizontal
4080.0000	43.53	-4.42	74.00	30.47	Peak	Horizontal
5955.0000	45.87	-0.04	74.00	28.13	Peak	Horizontal
9045.0000	50.36	3.81	74.00	23.64	Peak	Horizontal
1066.6667	44.63	-18.19	74.00	29.37	Peak	Vertical
1732.0000	44.68	-14.38	74.00	29.32	Peak	Vertical
4775.0000	44.11	-2.69	74.00	29.89	Peak	Vertical
7235.0000	48.15	0.46	74.00	25.85	Peak	Vertical

Test Mode:	802.11ax-HE20	Test Date:	2024-07-05
Test Channel:	01-2412MHz	Test Engineer:	Stone Zhang
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 (dB μ V/m)	Factor (dB)	Limit (dB μ V/m)	Margin (dB)	Detector	Polarization
1117.3333	43.52	-19.03	74.00	30.48	Peak	Horizontal
3625.0000	44.31	-6.17	74.00	29.69	Peak	Horizontal
5210.0000	44.90	-0.83	74.00	29.10	Peak	Horizontal
7235.0000	52.39	0.46	74.00	21.61	Peak	Horizontal
1064.0000	45.58	-18.20	74.00	28.42	Peak	Vertical
2126.6667	47.45	-12.18	74.00	26.55	Peak	Vertical
6045.0000	46.08	0.07	74.00	27.92	Peak	Vertical
8755.0000	49.82	3.17	74.00	24.18	Peak	Vertical

Test Mode:	802.11ax-HE20	Test Date:	2024-07-05
Test Channel:	06-2437MHz	Test Engineer:	Stone Zhang
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
1277.3333	40.78	-18.07	74.00	33.22	Peak	Horizontal
2132.0000	44.15	-12.52	74.00	29.85	Peak	Horizontal
4875.0000	47.18	-1.73	74.00	26.82	Peak	Horizontal
7945.0000	49.06	2.48	74.00	24.94	Peak	Horizontal
1117.3333	45.78	-17.93	74.00	28.22	Peak	Vertical
1852.0000	47.10	-13.58	74.00	26.90	Peak	Vertical
3995.0000	45.64	-4.21	74.00	28.36	Peak	Vertical
7035.0000	47.52	0.19	74.00	26.48	Peak	Vertical

Test Mode:	802.11ax-HE20	Test Date:	2024-07-05
Test Channel:	11-2462MHz	Test Engineer:	Stone Zhang
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.		

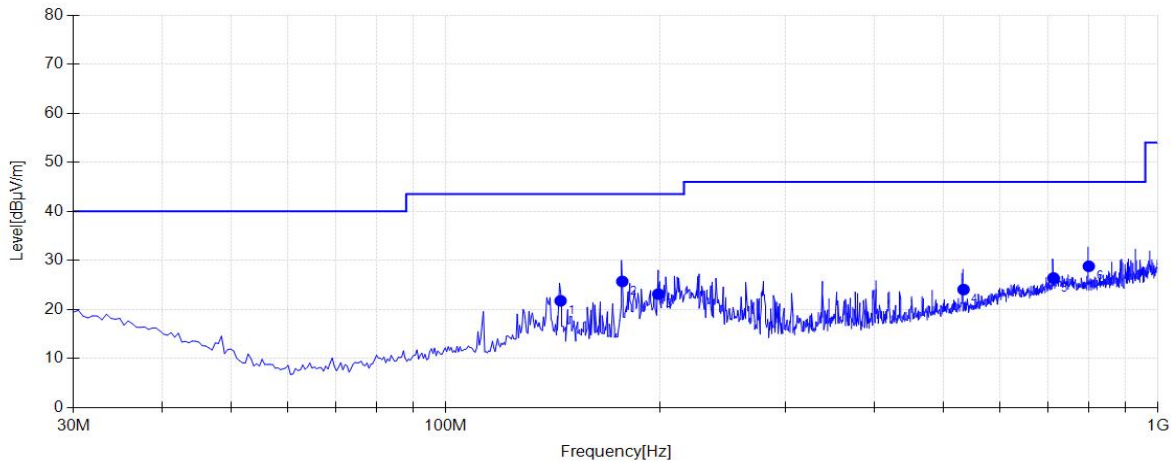
Frequency (MHz)	Level (dB μ V/m)	Factor (dB)	Limit (dB μ V/m)	Margin (dB)	Detector	Polarization
1118.6667	44.82	-19.02	74.00	29.18	Peak	Horizontal
2124.0000	42.63	-12.56	74.00	31.37	Peak	Horizontal
5235.0000	45.46	-0.83	74.00	28.54	Peak	Horizontal
9055.0000	51.11	3.85	74.00	22.89	Peak	Horizontal
1120.0000	47.13	-17.91	74.00	26.87	Peak	Vertical
1952.0000	44.89	-12.88	74.00	29.11	Peak	Vertical
3190.0000	43.53	-7.38	74.00	30.47	Peak	Vertical
6610.0000	48.22	0.46	74.00	25.78	Peak	Vertical

The worst case of Radiated Emission below 1GHz:

30MHz – 1GHz Test Data

EUT:	2.4GHz Wi-Fi/BLE Module	Polarity:	Horizontal
Model:	EMC6083-E	Test Date:	2024-07-05
Mode:	Transmit at 802.11b Channel 2412MHz	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:56%	Engineer:	Stone Zhang

Test Graph



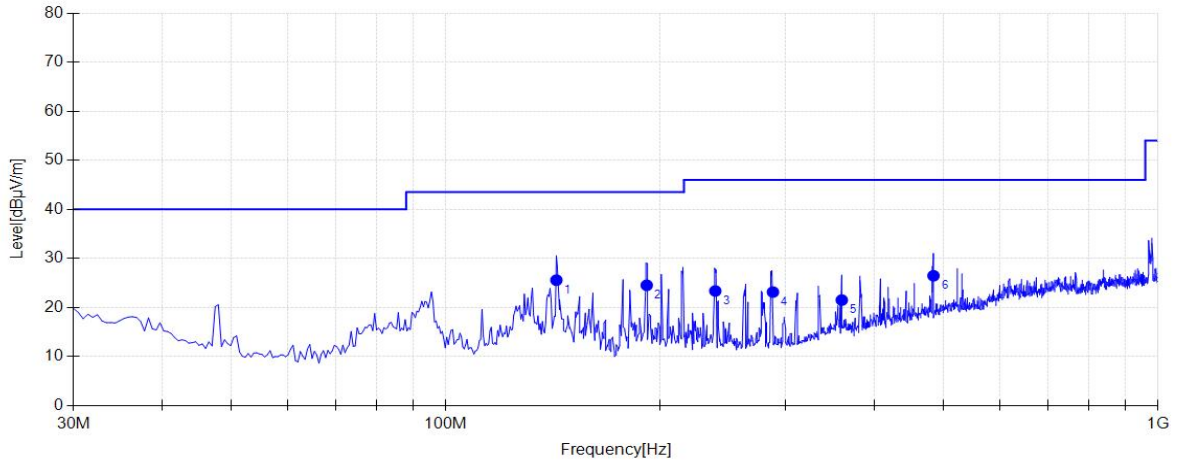
Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	144.945	10.53	21.78	43.50	21.72	200	292	Horizontal
2	176.955	10.35	25.72	43.50	17.78	200	279	Horizontal
3	198.780	10.25	23.14	43.50	20.36	100	59	Horizontal
4	533.430	18.66	24.07	46.00	21.93	200	131	Horizontal
5	713.365	21.75	26.43	46.00	19.57	100	119	Horizontal
6	799.695	22.88	28.81	46.00	17.19	100	280	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:	2.4GHz Wi-Fi/BLE Module	Polarity:	Vertical
Model:	EMC6083-E	Test Date:	2024-07-05
Mode:	Transmit at 802.11b Channel 2412MHz	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:56%	Engineer:	Stone Zhang

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	143.005	10.41	25.58	43.50	17.92	100	352	Vertical
2	191.505	10.28	24.54	43.50	18.96	100	333	Vertical
3	239.035	10.64	23.37	46.00	22.63	100	356	Vertical
4	288.020	11.69	23.15	46.00	22.85	100	333	Vertical
5	359.800	13.93	21.52	46.00	24.48	100	277	Vertical
6	483.960	17.33	26.48	46.00	19.52	200	4	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. Radiated 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	--	--	--

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510MHz.

² Above 38.6

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

For RSS-Gen Section 8.10 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 8.10 of RSS-Gen, must also comply with the radiated emission limits specified in Section 8.9.

Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.009 - 0.110	240 - 285	9.0 - 9.2
2.1735 - 2.1905	322 - 335.4	9.3 - 9.5
3.020 - 3.026	399.9 - 410	10.6 - 12.7
4.125 - 4.128	608 - 614	13.25 - 13.4
4.17725 - 4.17775	960 - 1427	14.47 - 14.5
4.20725 - 4.20775	1435 - 1626.5	15.35 - 16.2
5.677 - 5.683	1645.5 - 1646.5	17.7 - 21.4
6.215 - 6.218	1660 - 1710	22.01 - 23.12
6.26775 - 6.26825	1718.8 -1722.2	23.6 - 24.0
6.31175 - 6.31225	2200 - 2300	31.2 - 31.8
8.291 - 8.294	2310 -2390	36.43 - 36.5
8.362 - 8.366	2655 - 2900	Above 38.6
8.37625 - 8.38675	3260 - 3267	--
8.41425 - 8.41475	3332 -3339	
12.29 - 12.293	334.5 - 3358	
12.51975 - 12.52025	3500 - 4400	
12.57675 - 12.57725	4500 - 5150	
13.36 -13.41	5350 - 5460	
16.42 - 16.423	7250 - 7750	
16.69475 - 16.69525	8025 - 8500	
16.80425 - 16.80475	--	
25.5 - 25.67		
37.5 - 38.25		
73 - 74.6		
74.8 - 75.2		
108 - 138		
156.52475 - 156.525225		
156.7 - 156.9		

All out of band emissions appearing in a restricted band as specified in Section 8.10 of the RSS-Gen

must not exceed the limits shown in Table per Section 8.9.

RSS-Gen Section 8.9		
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

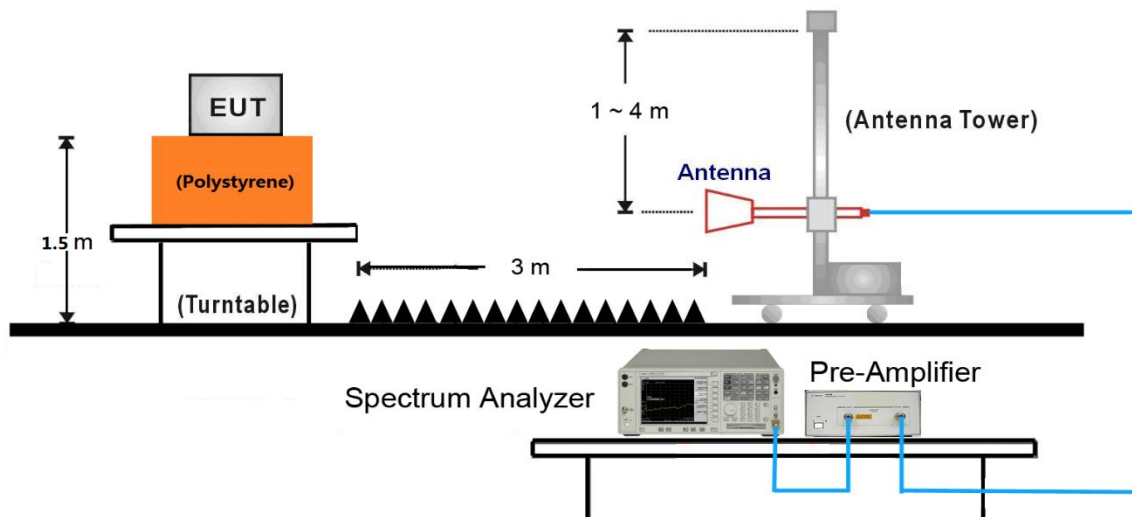
Peak Field Strength Measurements

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

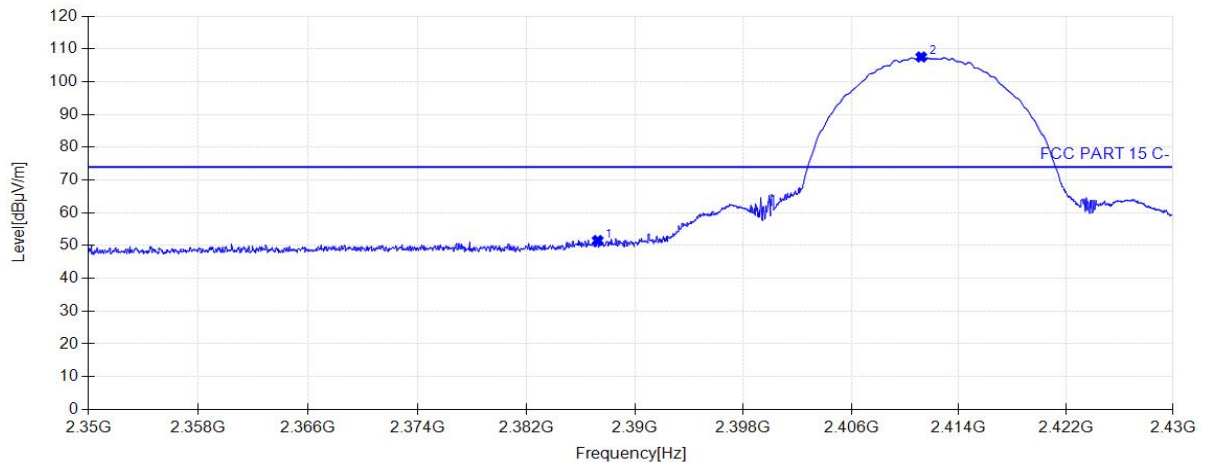


Note: This item was performed with the WIFI antenna connected.

7.7.5. Test Result

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11b Channel 2412MHz		

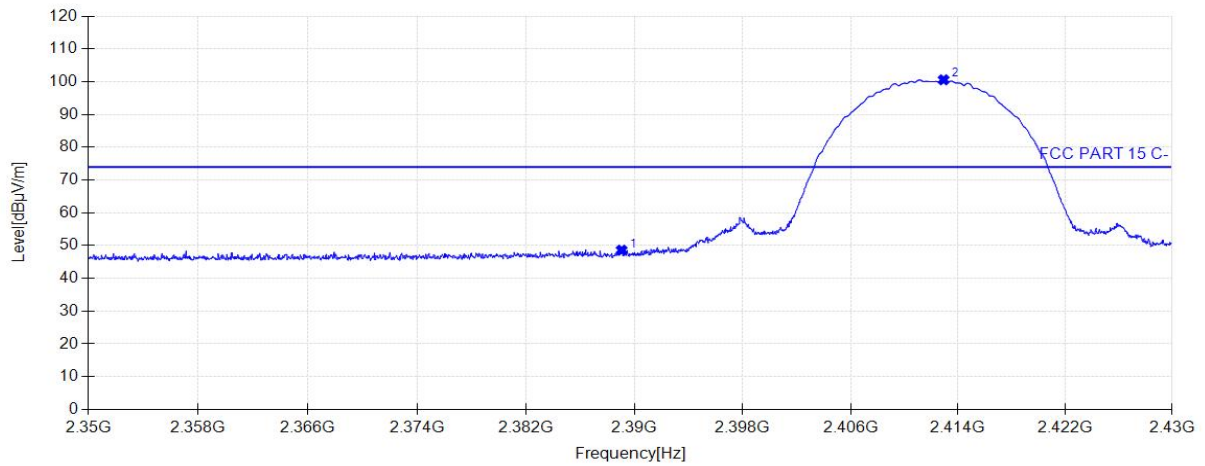
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.2400	51.54	33.20	74.00	22.46	160	4	Horizontal
2	2411.2000	107.54	33.27	/	/	160	4	Horizontal

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11b Channel 2412MHz		

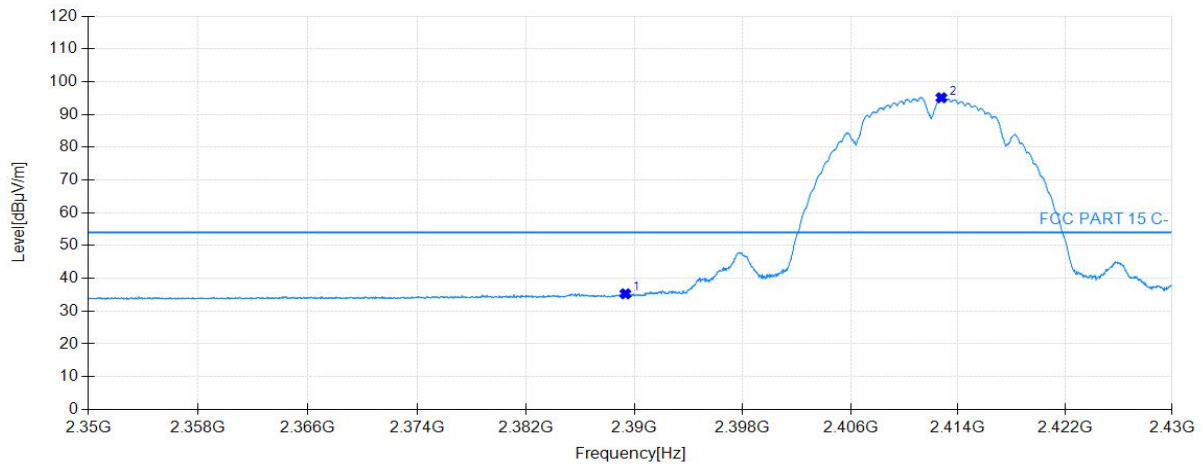
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2381.4000	47.98	33.09	74.00	26.02	160	224	Vertical
2	2410.6000	97.94	33.13	/	/	160	137	Vertical

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11b Channel 2412MHz		

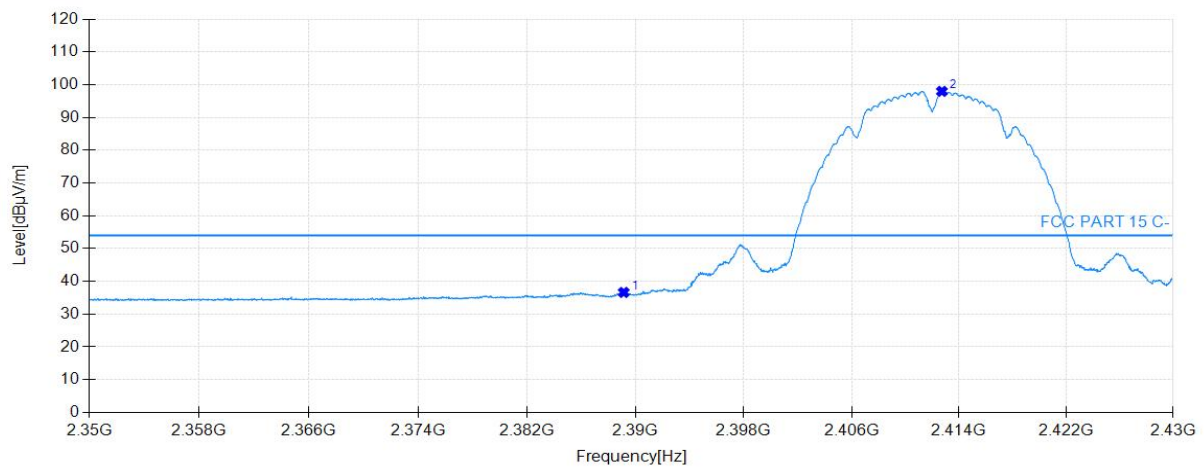
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.3200	39.34	33.20	54.00	14.66	160	9	Horizontal
2	2411.2400	104.81	33.27	/	/	160	360	Horizontal

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11b Channel 2412MHz		

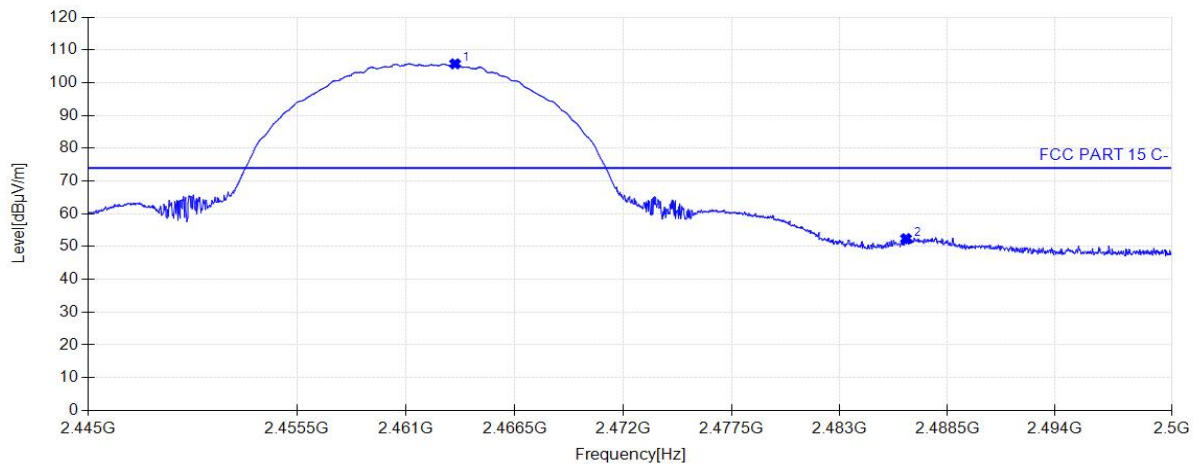
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.7200	35.46	33.10	54.00	18.54	160	16	Vertical
2	2411.3200	95.08	33.13	/	/	160	58	Vertical

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11b Channel 2462MHz		

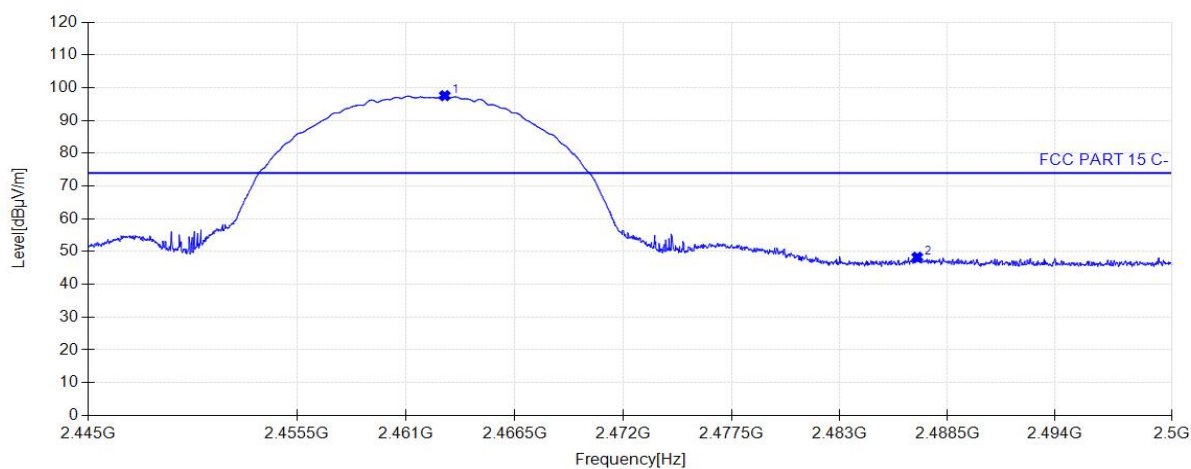
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2463.4800	105.75	33.42	/	/	160	359	Horizontal
2	2486.3875	52.42	33.48	74.00	21.58	160	360	Horizontal

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11b Channel 2462MHz		

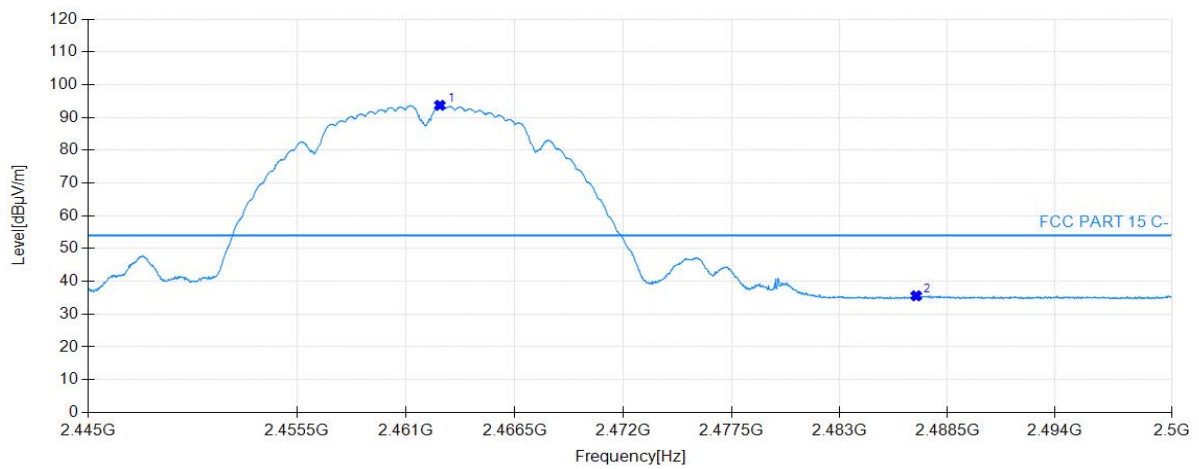
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.9575	97.56	33.18	/	/	160	347	Vertical
2	2486.9650	48.29	33.21	74.00	25.71	160	59	Vertical

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11b Channel 2462MHz		

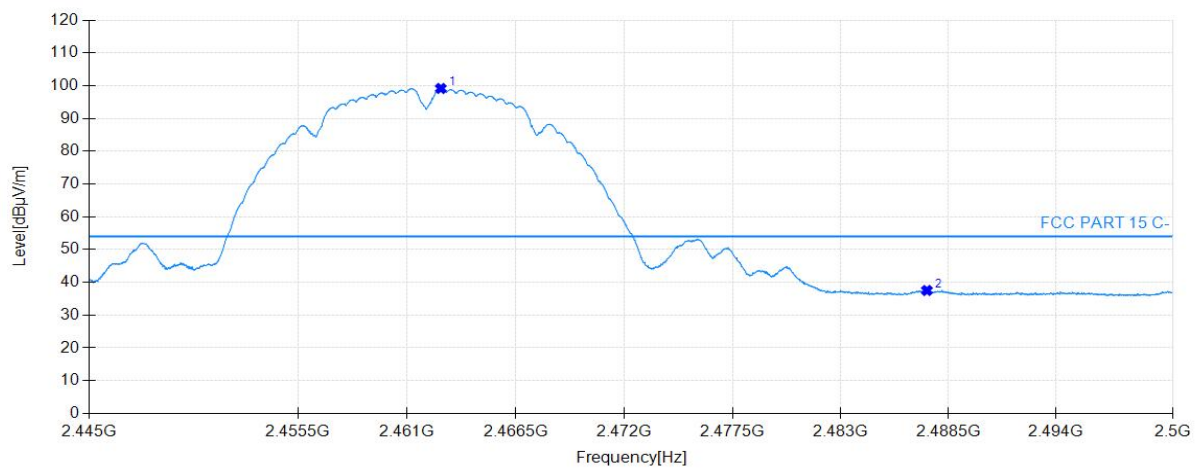
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.7100	103.19	33.41	/	/	160	359	Horizontal
2	2487.7350	43.25	33.48	54.00	10.75	160	360	Horizontal

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11b Channel 2462MHz		

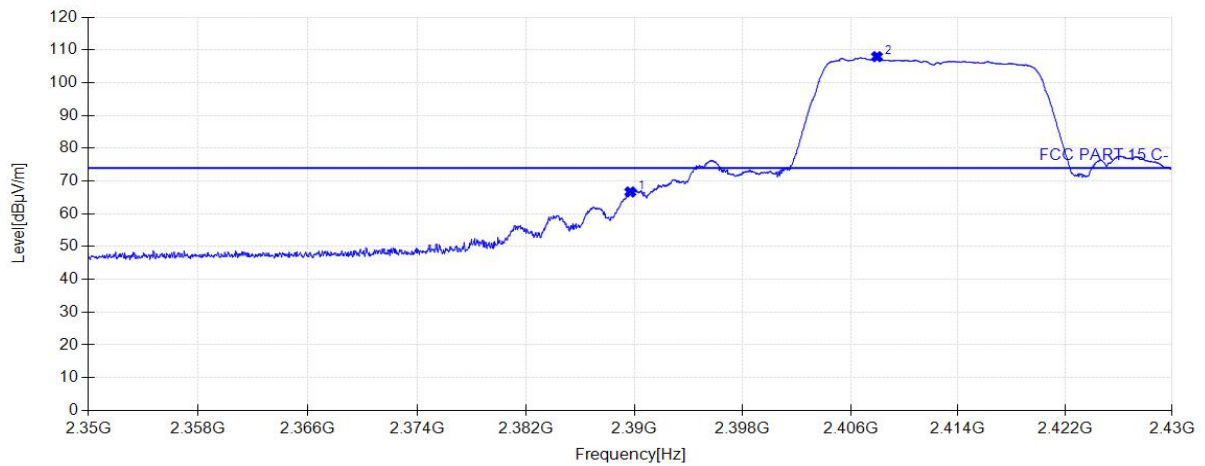
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.7650	95.05	33.18	/	/	160	131	Vertical
2	2487.5425	37.11	33.21	54.00	16.89	160	131	Vertical

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11g Channel 2412MHz		

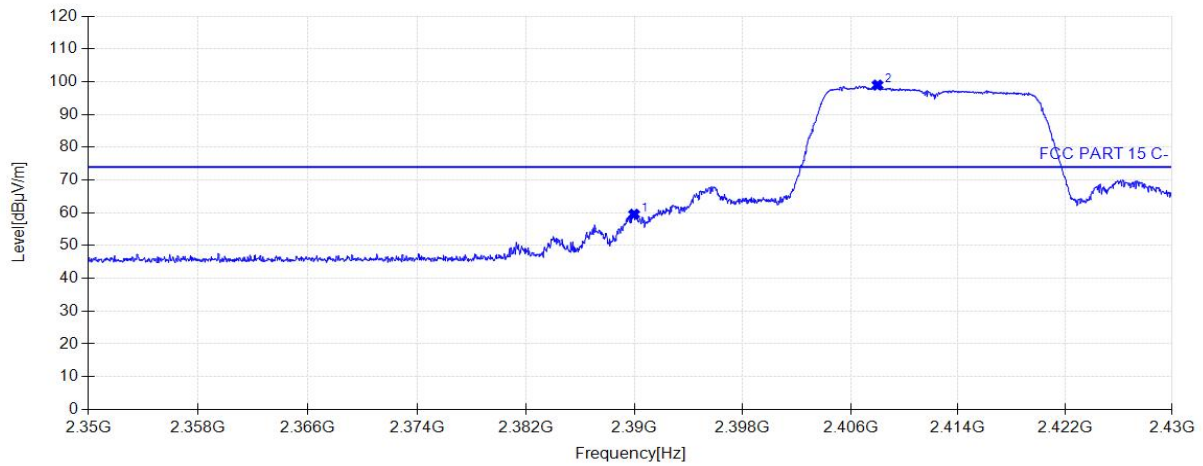
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.6800	66.66	33.20	74.00	7.34	160	355	Horizontal
2	2407.9600	107.94	33.26	/	/	160	359	Horizontal

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11g Channel 2412MHz		

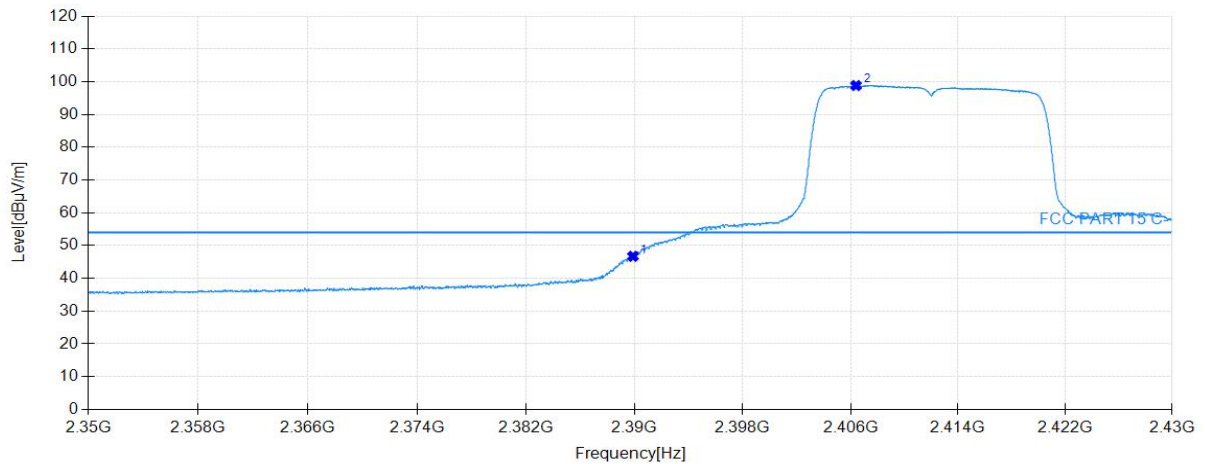
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.9600	59.56	33.10	74.00	14.44	160	136	Vertical
2	2408.0000	98.96	33.12	/	/	160	59	Vertical

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11g Channel 2412MHz		

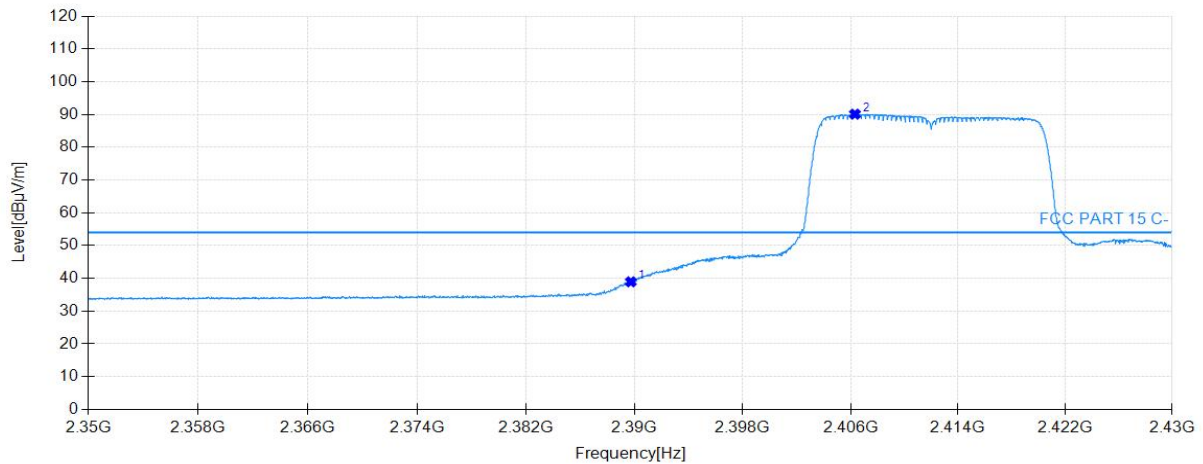
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.8800	46.72	33.21	54.00	7.28	160	359	Horizontal
2	2406.4000	98.82	33.25	/	/	160	359	Horizontal

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11g Channel 2412MHz		

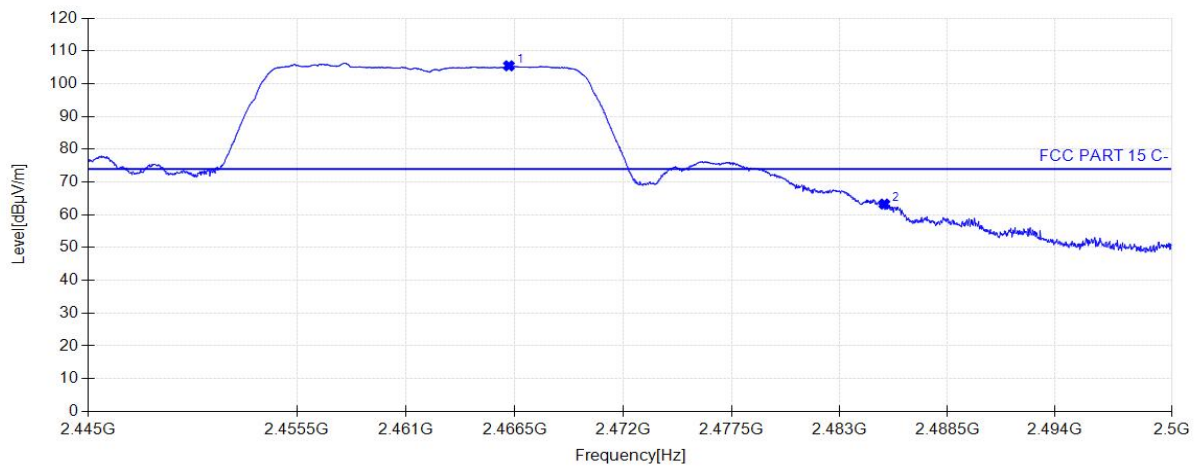
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.7200	38.94	33.10	54.00	15.06	160	37	Vertical
2	2406.3200	90.09	33.12	/	/	160	55	Vertical

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11g Channel 2462MHz		

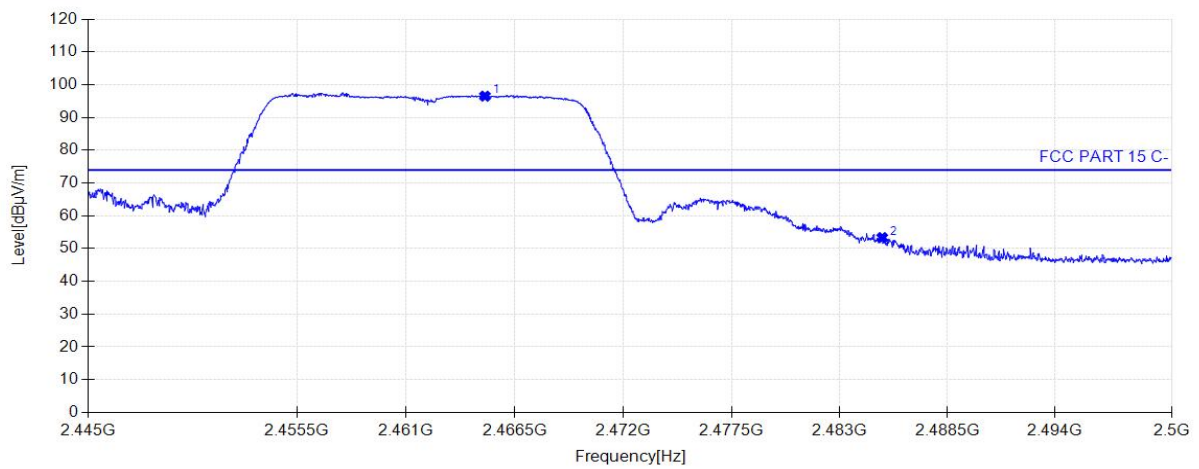
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2466.2025	105.45	33.42	/	/	160	360	Horizontal
2	2485.2875	63.27	33.48	74.00	10.73	160	359	Horizontal

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11g Channel 2462MHz		

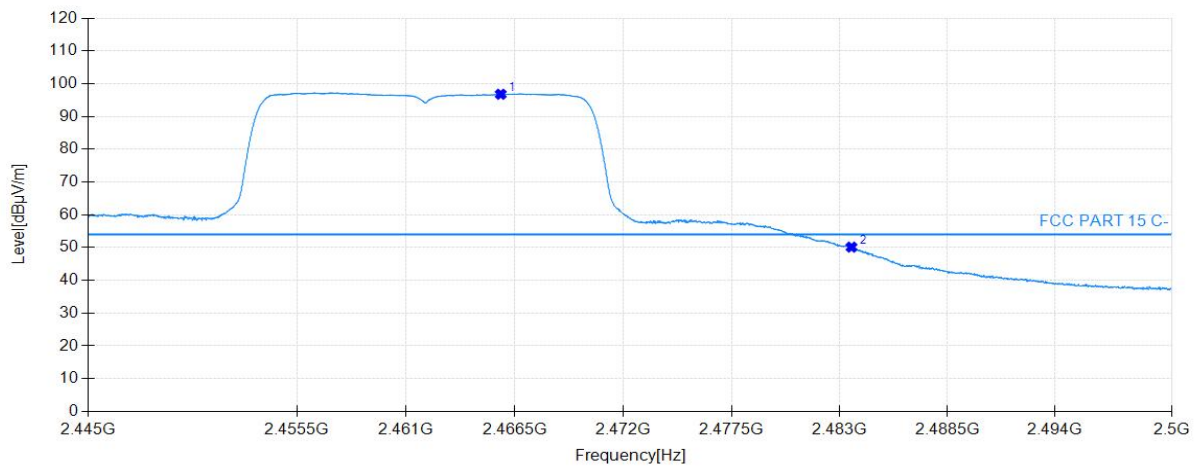
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2464.9925	96.50	33.18	/	/	160	82	Vertical
2	2485.1775	53.34	33.20	74.00	20.66	160	129	Vertical

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11g Channel 2462MHz		

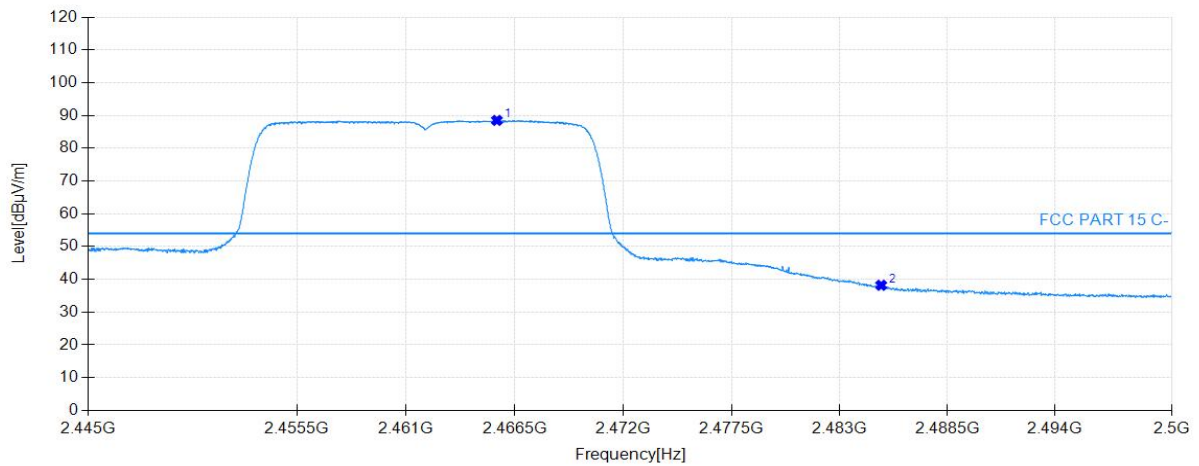
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2465.7900	96.78	33.42	/	/	160	359	Horizontal
2	2483.6100	50.13	33.47	54.00	3.87	160	360	Horizontal

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11n-HT20 Channel 2462MHz		

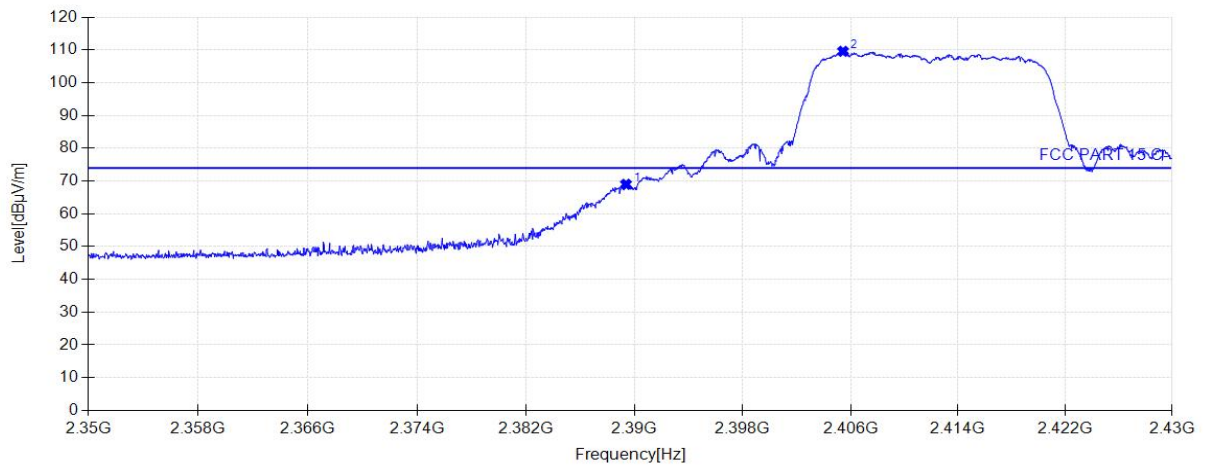
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2465.5975	88.50	33.18	/	/	160	136	Vertical
2	2485.1225	38.19	33.20	54.00	15.81	160	127	Vertical

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11n-HT20 Channel 2412MHz		

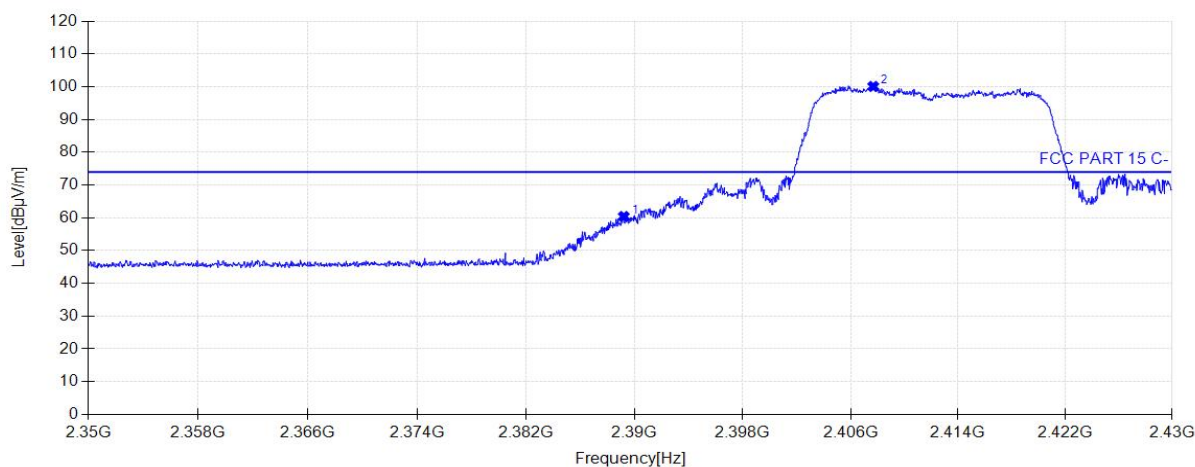
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.3600	69.01	33.20	74.00	4.99	160	342	Horizontal
2	2405.4400	109.57	33.25	/	/	160	358	Horizontal

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11n-HT20 Channel 2412MHz		

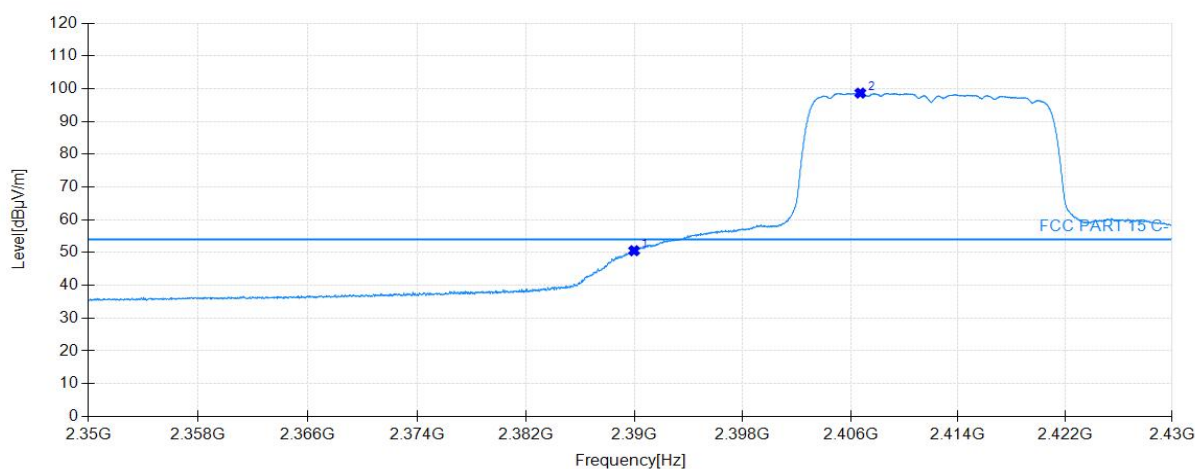
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.2000	60.40	33.10	74.00	13.60	160	36	Vertical
2	2407.6800	100.07	33.12	/	/	160	59	Vertical

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11n-HT20 Channel 2412MHz		

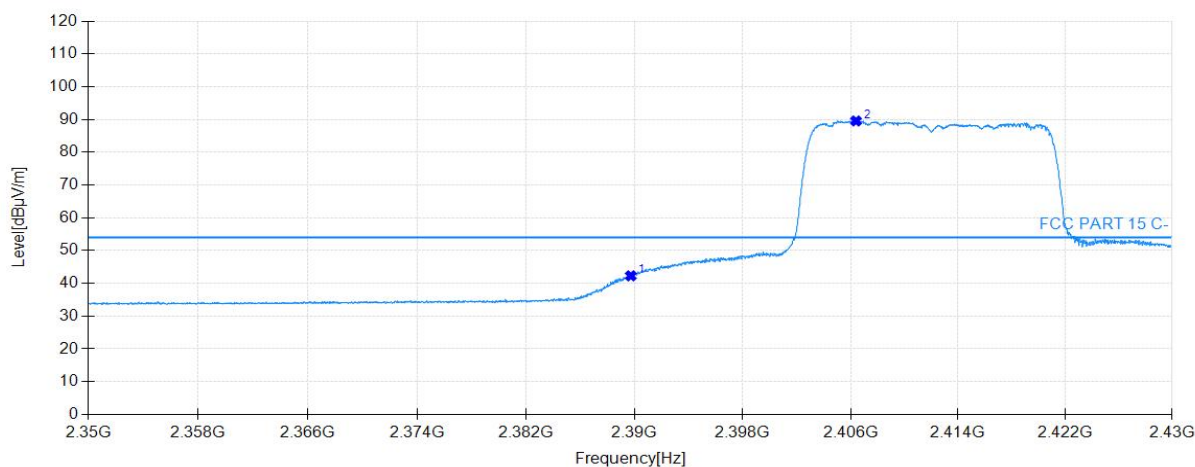
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.9600	50.57	33.21	54.00	3.43	160	354	Horizontal
2	2406.7200	98.66	33.25	/	/	160	81	Horizontal

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11n-HT20 Channel 2412MHz		

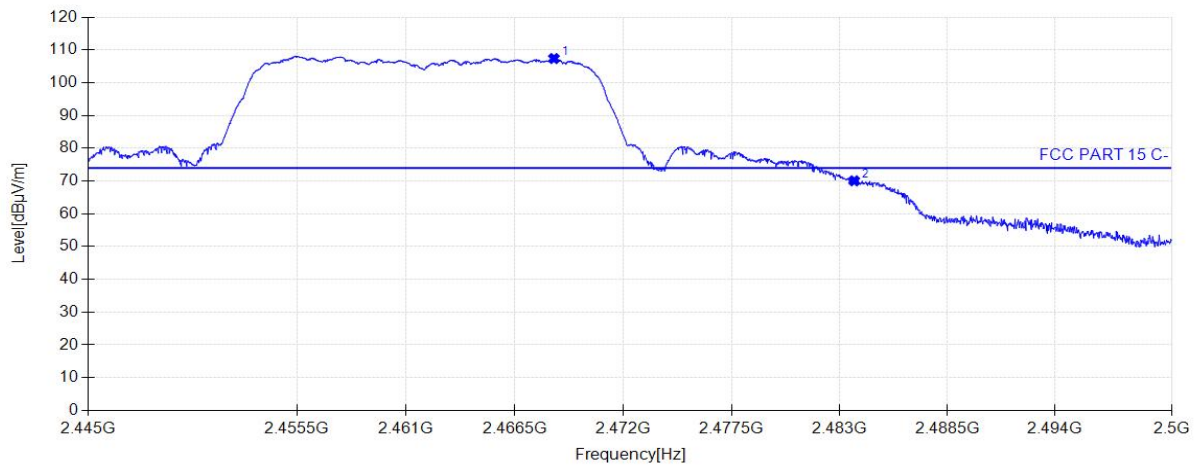
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.7200	42.29	33.10	54.00	11.71	160	31	Vertical
2	2406.4000	89.54	33.12	/	/	160	59	Vertical

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11g Channel 2462MHz		

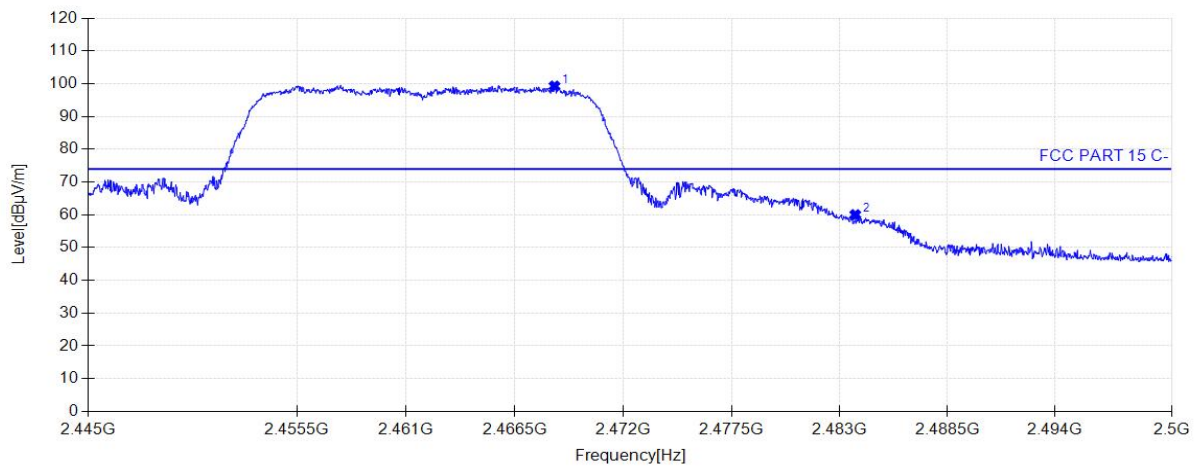
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2468.4850	107.37	33.43	/	/	160	359	Horizontal
2	2483.7475	70.06	33.47	74.00	3.94	160	4	Horizontal

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11n-HT20 Channel 2462MHz		

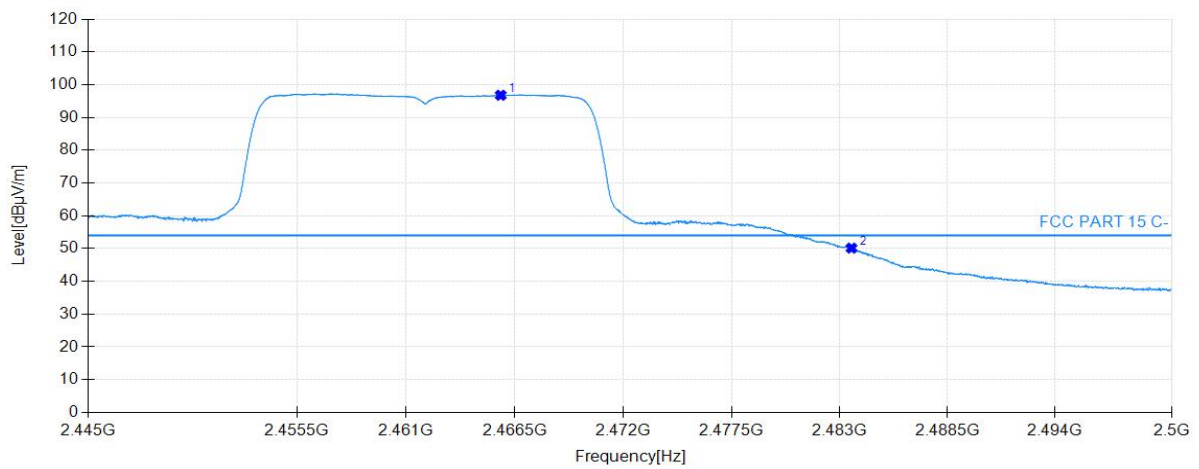
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2468.5125	99.27	33.19	/	/	160	134	Vertical
2	2483.8025	60.04	33.20	74.00	13.96	160	134	Vertical

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11n-HT20 Channel 2462MHz		

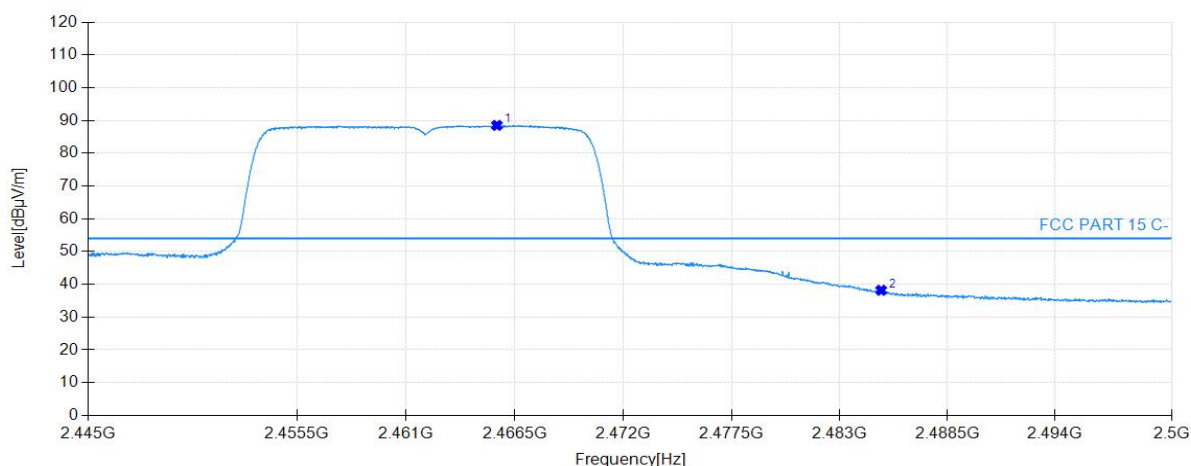
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2463.0675	96.54	33.41	/	/	160	359	Horizontal
2	2483.6100	50.08	33.47	54.00	3.92	160	360	Horizontal

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11n-HT20 Channel 2462MHz		

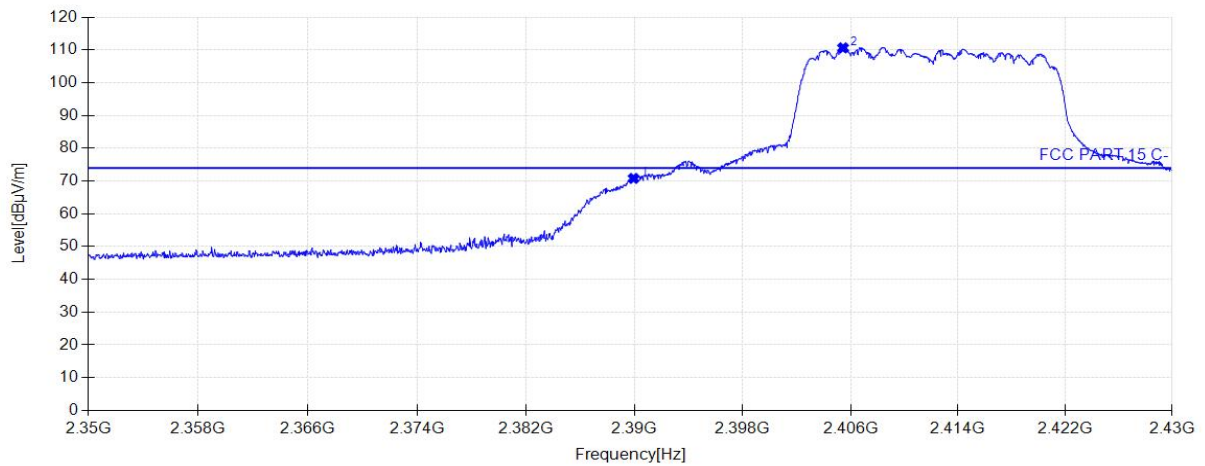
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2463.0125	89.23	33.18	/	/	160	76	Vertical
2	2485.1225	38.69	33.20	54.00	15.31	160	127	Vertical

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11ax-HE20 Channel 2412MHz		

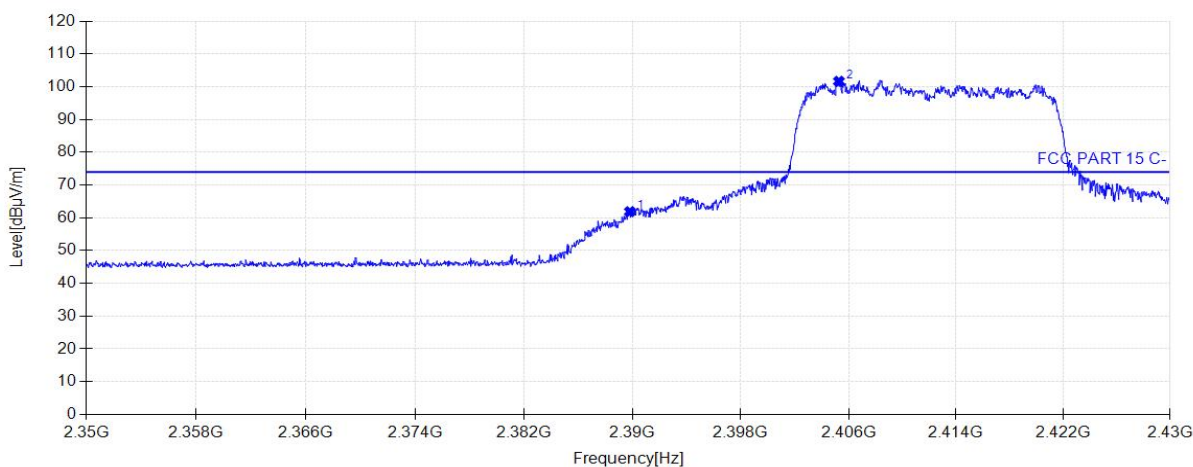
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.9200	70.80	33.21	74.00	3.20	160	351	Horizontal
2	2405.4400	110.62	33.25	/	/	160	357	Horizontal

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11ax-HE20 Channel 2412MHz		

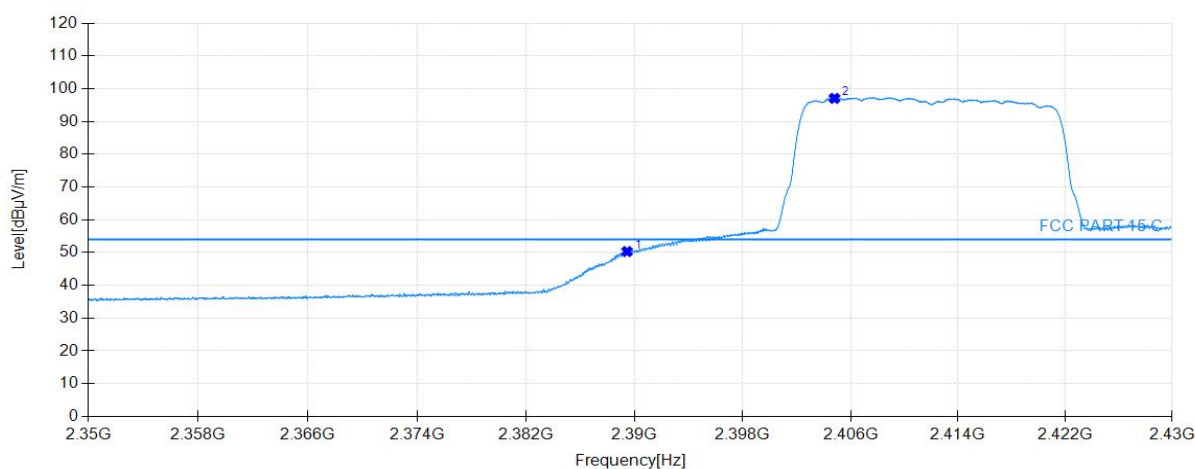
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.8000	61.88	33.10	74.00	12.12	160	138	Vertical
2	2405.2800	101.64	33.12	/	/	160	59	Vertical

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11ax-HE20 Channel 2412MHz		

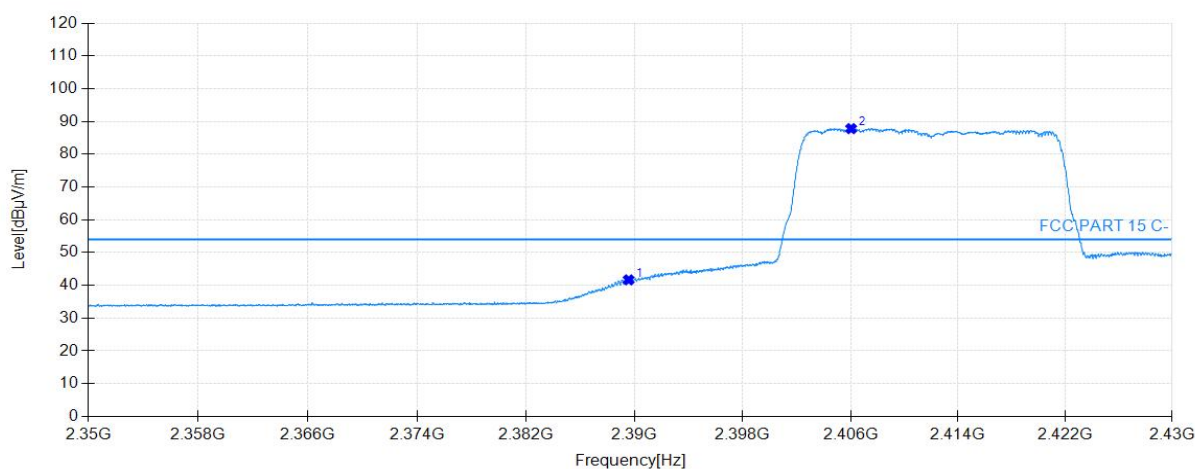
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.4400	50.32	33.20	54.00	3.68	160	359	Horizontal
2	2404.8000	97.04	33.25	/	/	160	360	Horizontal

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11ax-HE20 Channel 2412MHz		

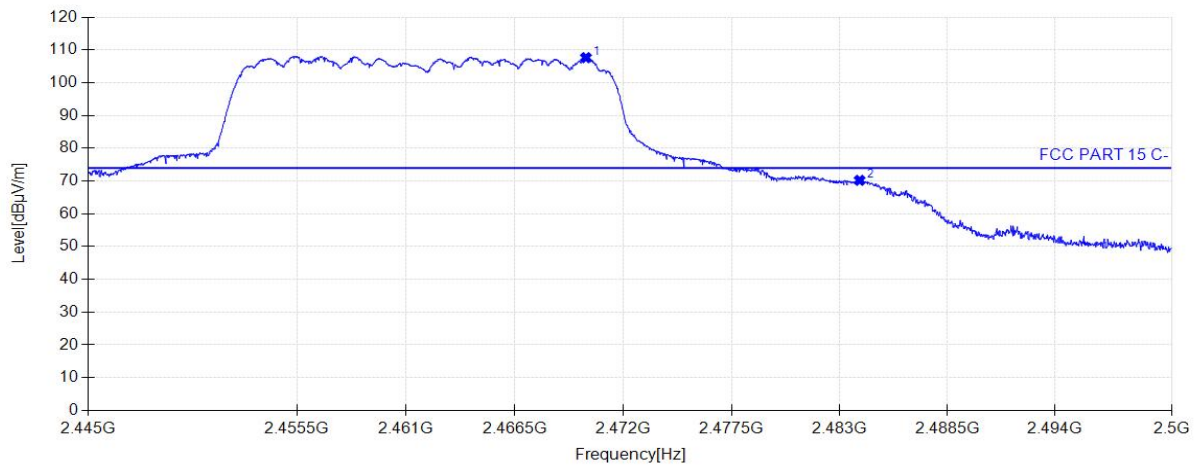
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.5600	41.67	33.10	54.00	12.33	160	36	Vertical
2	2406.0400	87.81	33.12	/	/	160	58	Vertical

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11ax-HE20 Channel 2462MHz		

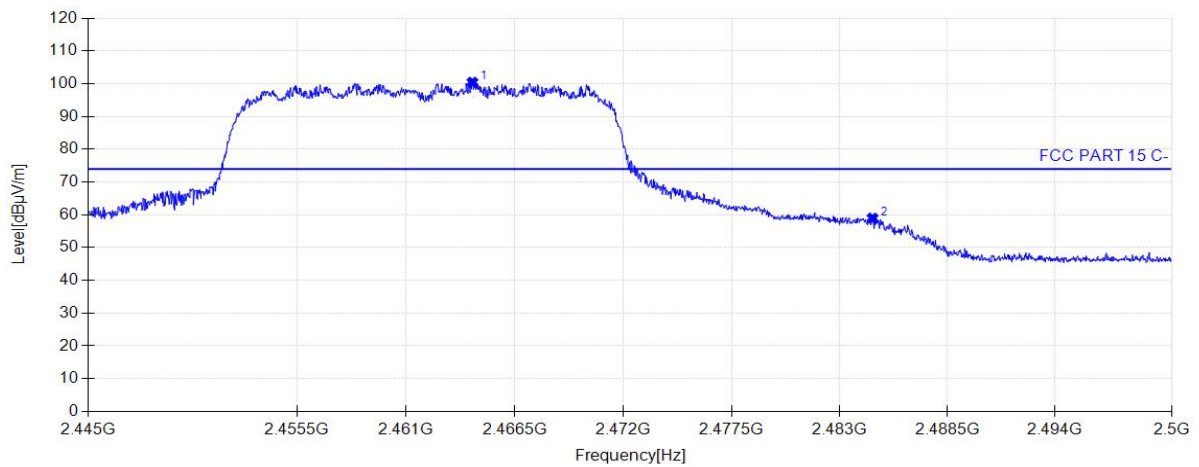
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2470.1075	107.63	33.43	/	/	160	4	Horizontal
2	2484.0225	70.21	33.47	74.00	3.79	160	360	Horizontal

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11ax-HE20 Channel 2462MHz		

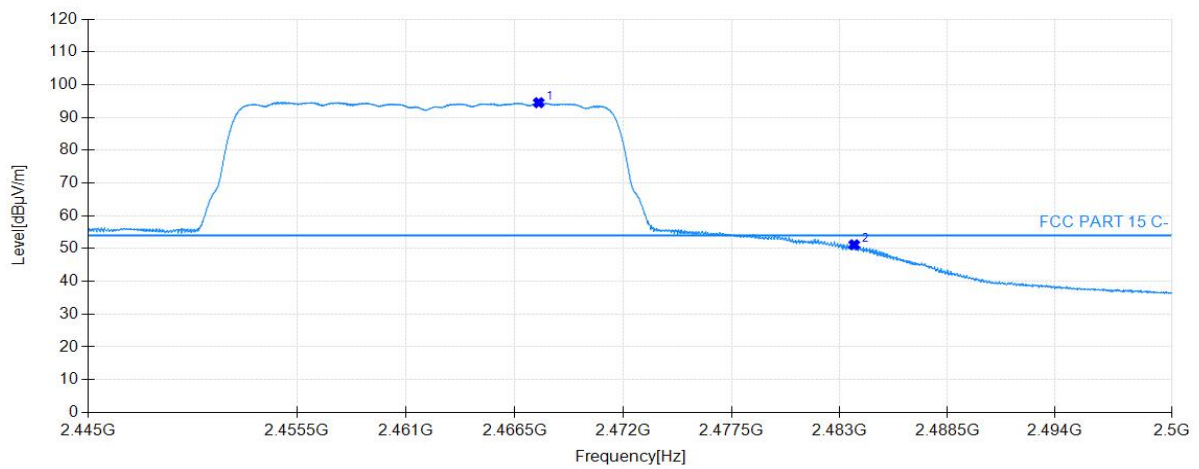
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2464.3600	100.42	33.18	/	/	160	133	Vertical
2	2484.6825	58.97	33.20	74.00	15.03	160	59	Vertical

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11ax-HE20 Channel 2462MHz		

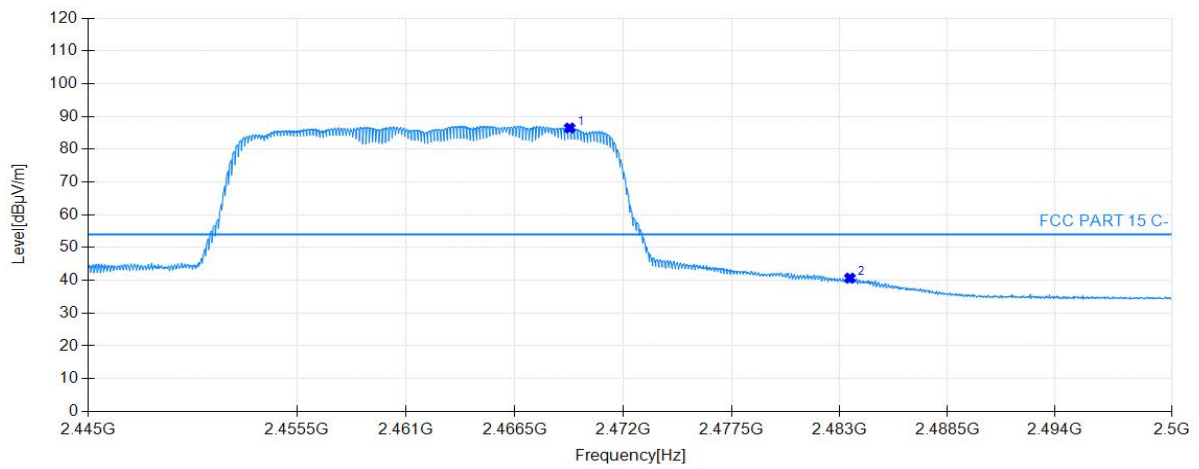
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2467.7150	94.51	33.43	/	/	160	3	Horizontal
2	2483.7475	51.16	33.47	54.00	2.84	160	3	Horizontal

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-07-05	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at 802.11ax-HE20 Channel 2462MHz		

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2469.2825	86.47	33.19	/	/	160	138	Vertical
2	2483.5275	40.68	33.20	54.00	13.32	160	55	Vertical

7.8. AC Conducted Emissions Measurement

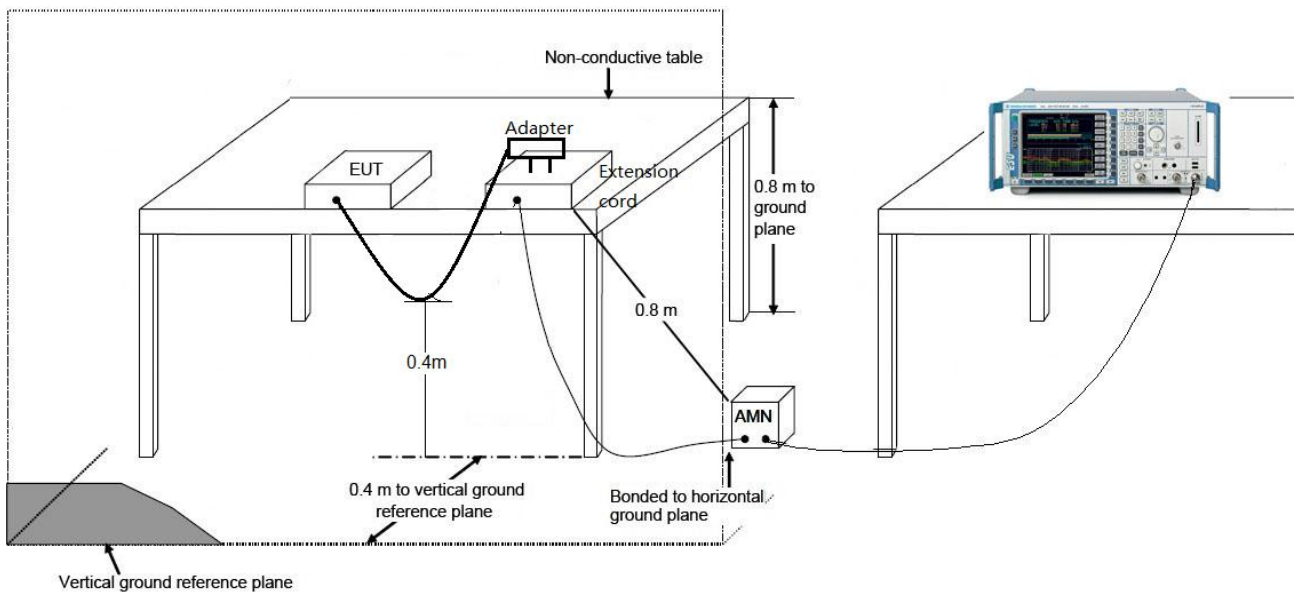
7.8.1. Test Limit

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 EUT is DC supply, this item only for the EUT is designed to be connected to the public utility (AC) power line. Not applicable.

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **2.4GHz Wi-Fi/BLE Module** is compliance with Part 15C of the FCC Rules.

_____ The End _____