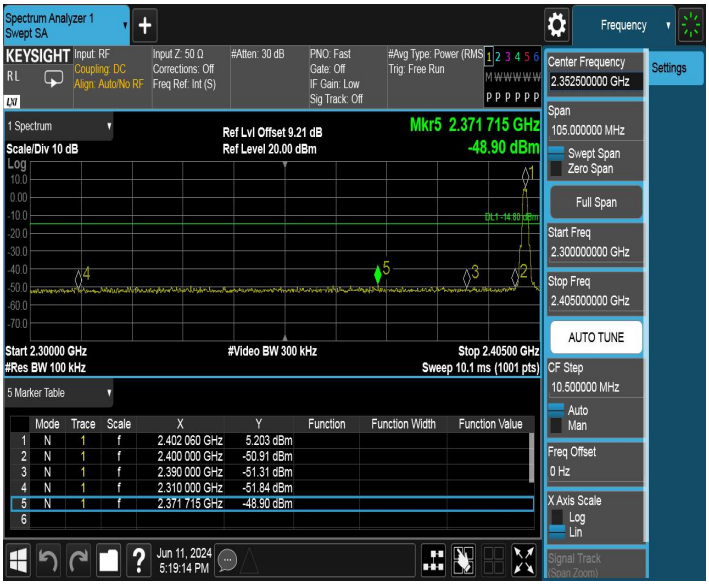
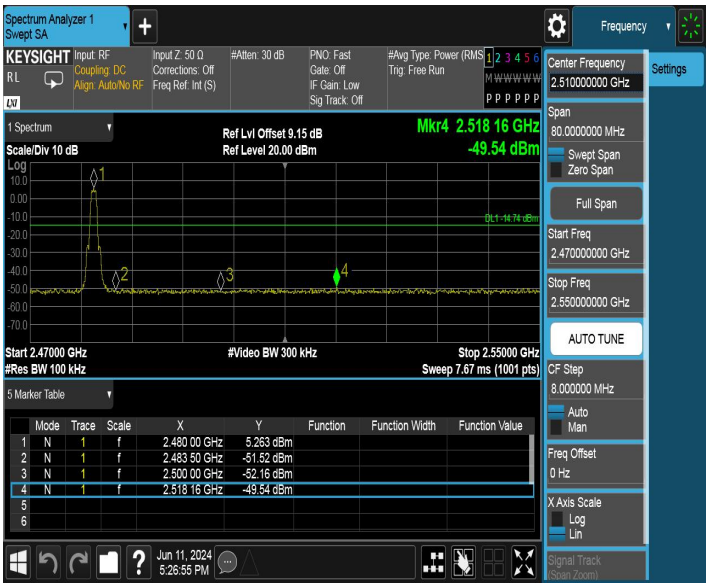
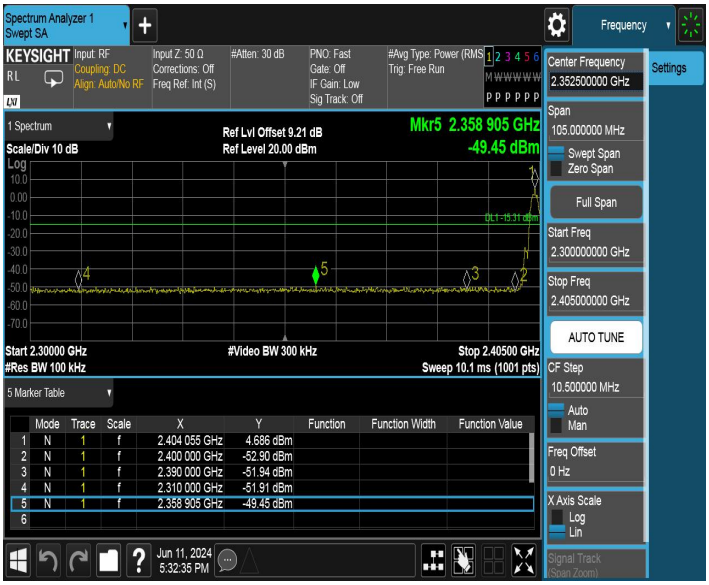
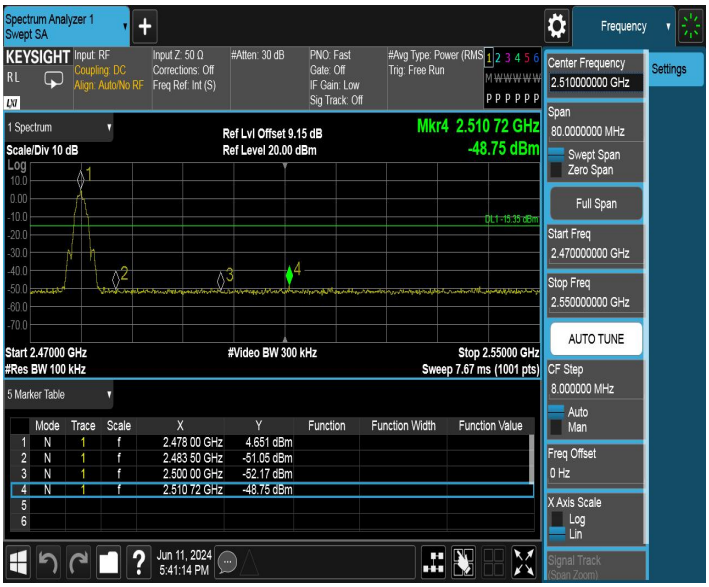
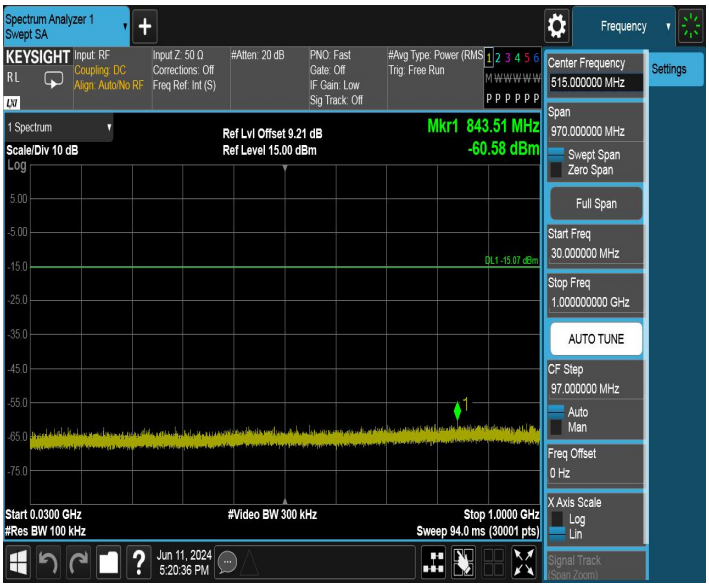
BLE_1M_Low_2402


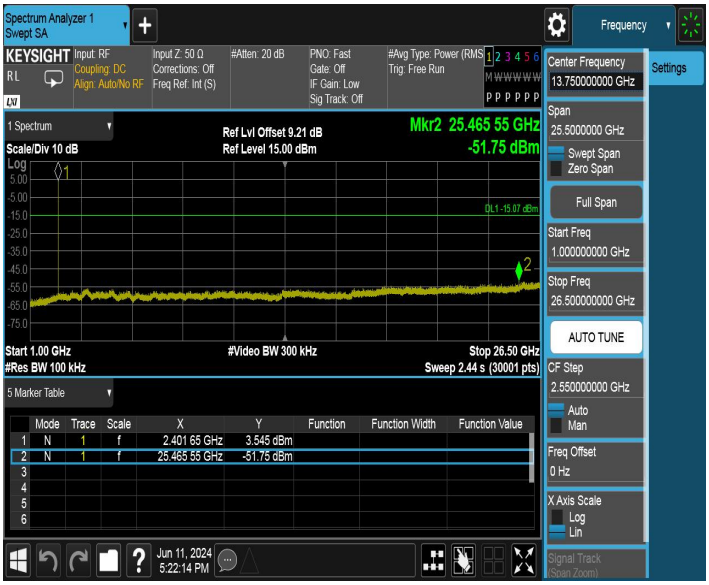
BLE_1M_High_2480


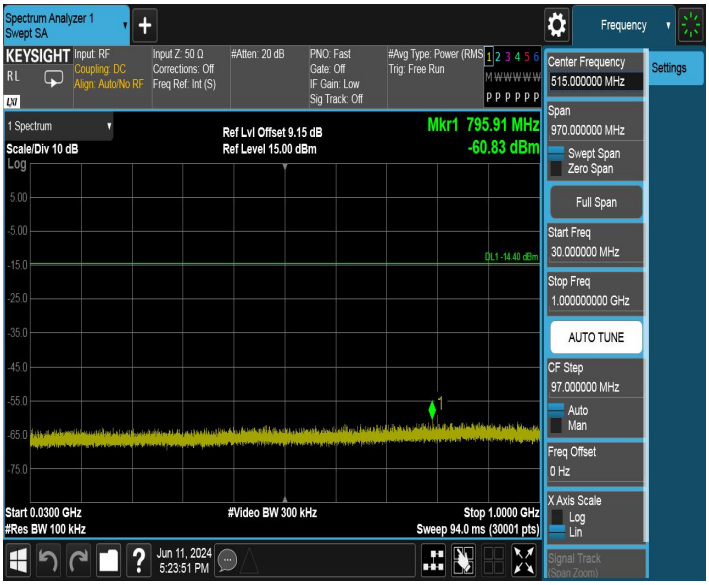
BLE_2M_Low_2404


BLE_2M_High_2478


BLE_1M_2402_0~Reference

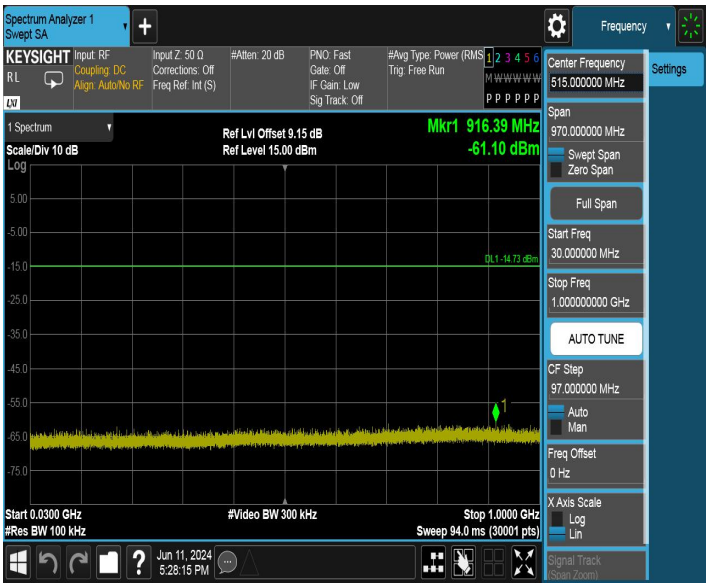
BLE_1M_2402_30~1000


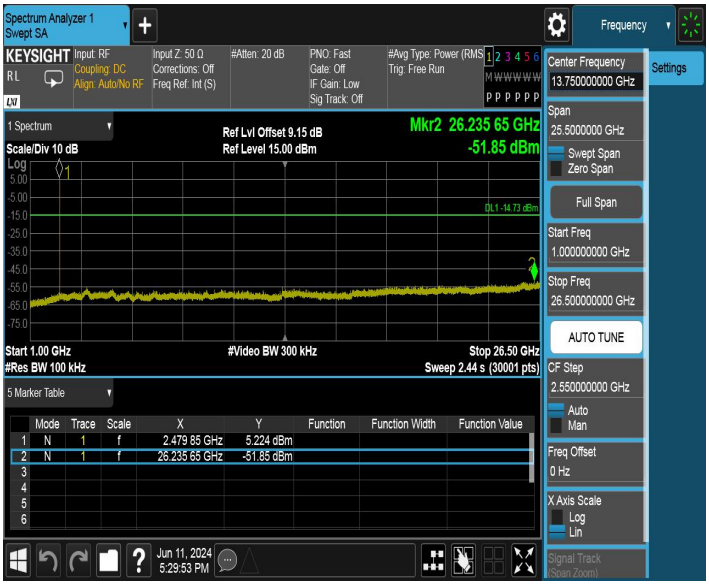
BLE_1M_2402_1000~26500

BLE_1M_2440_0~Reference

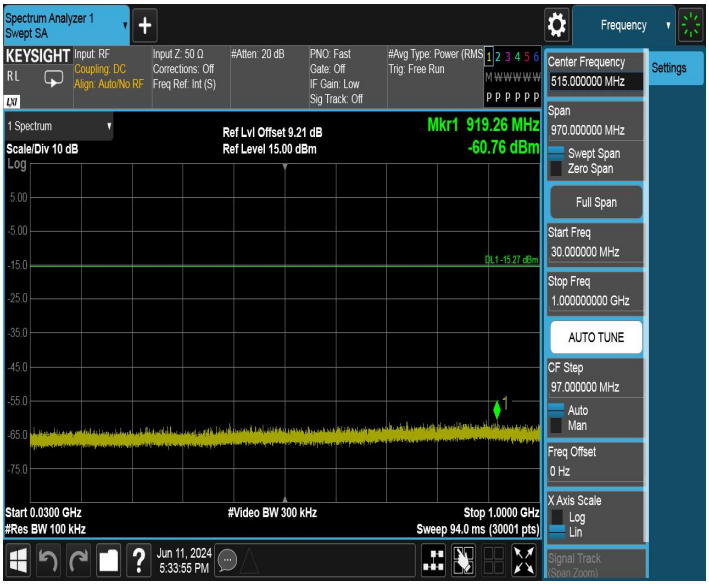

BLE_1M_2440_30~1000


BLE_1M_2440_1000~26500

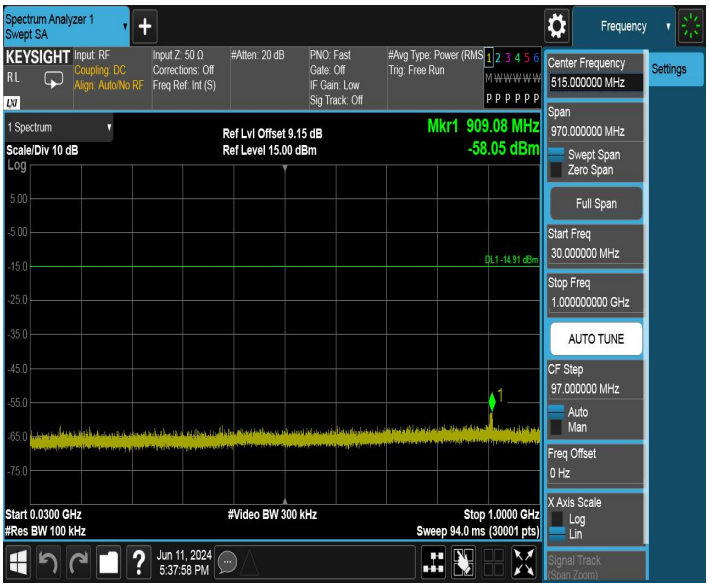

BLE_1M_2480_0~Reference

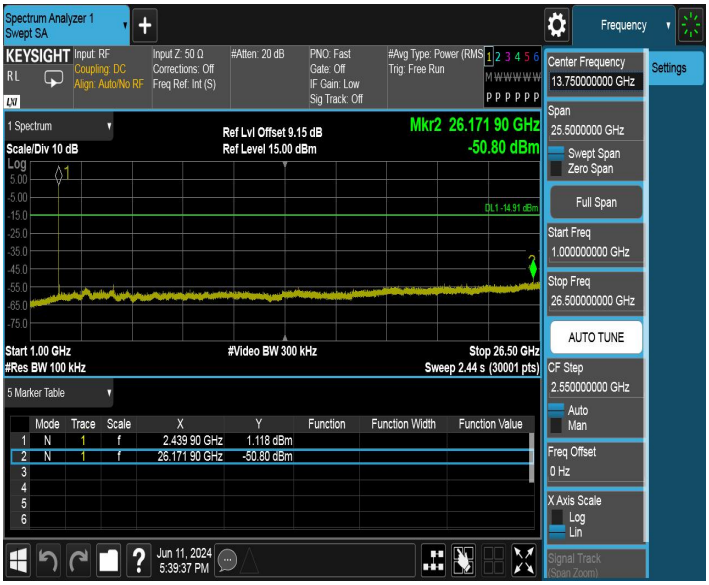
BLE_1M_2480_30~1000


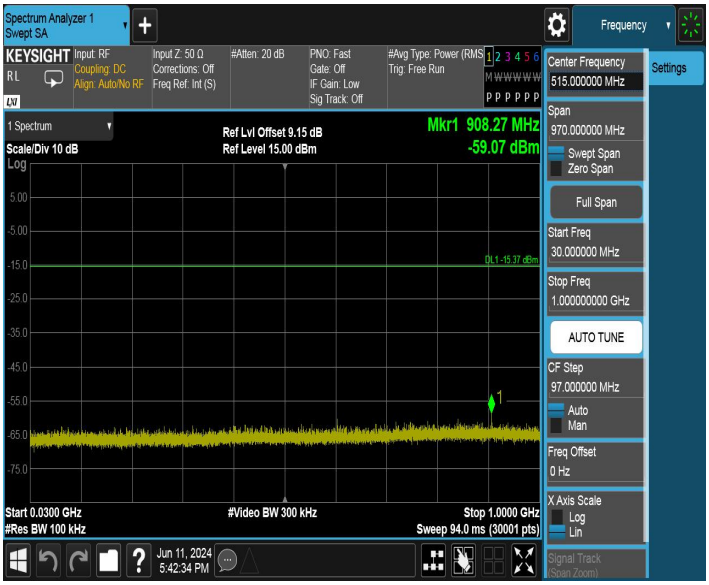
BLE_1M_2480_1000~26500

BLE_2M_2404_0~Reference


BLE_2M_2404_30~1000

BLE_2M_2404_1000~26500


BLE_2M_2440_0~Reference

BLE_2M_2440_30~1000


BLE_2M_2440_1000~26500

BLE_2M_2478_0~Reference


BLE_2M_2478_30~1000

BLE_2M_2478_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

7. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

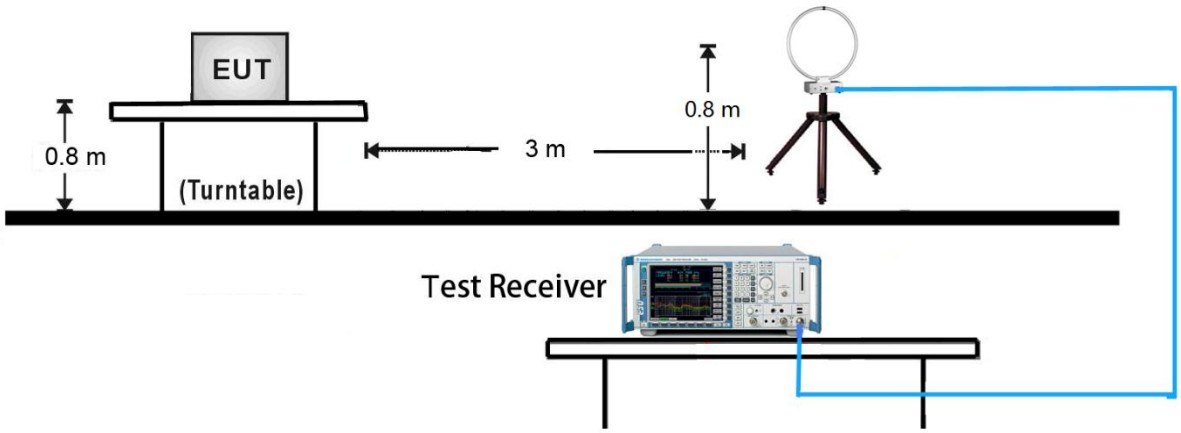
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

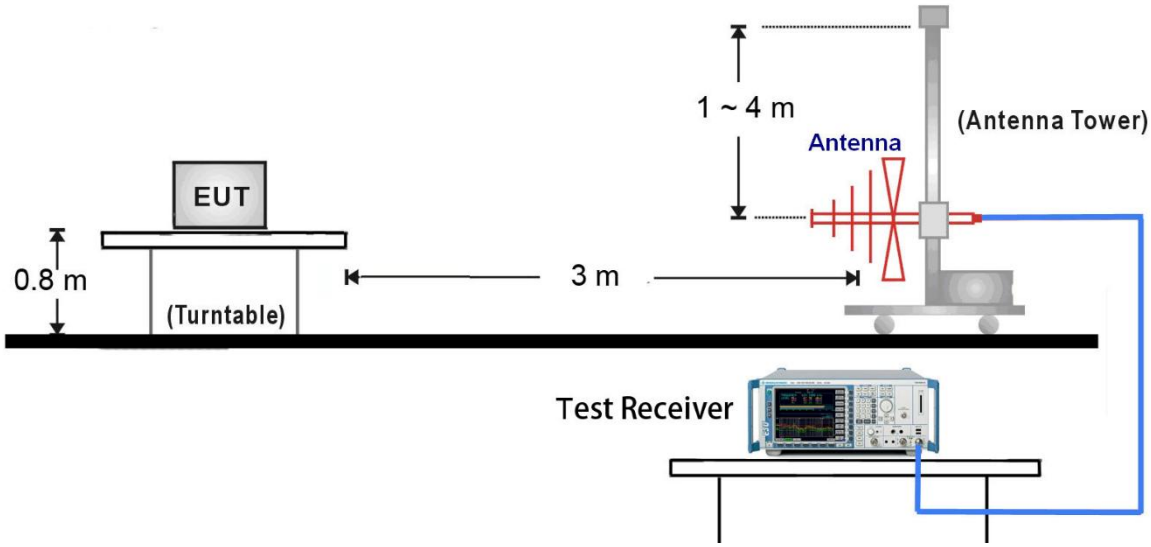
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Power Average (RMS)
5. Number of sweep point = 2001 (Number of sweep points must be ≥ 2 x span / RBW)
6. Sweep time = auto
7. Trace (RMS) averaging was performed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

7.6.4. Test Setup

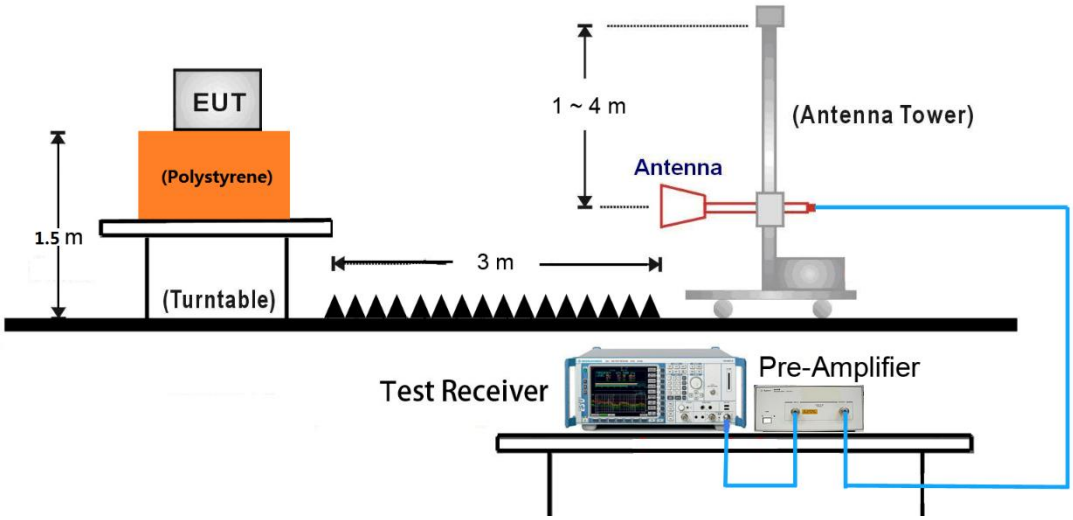
9kHz ~ 30MHz Test Setup:



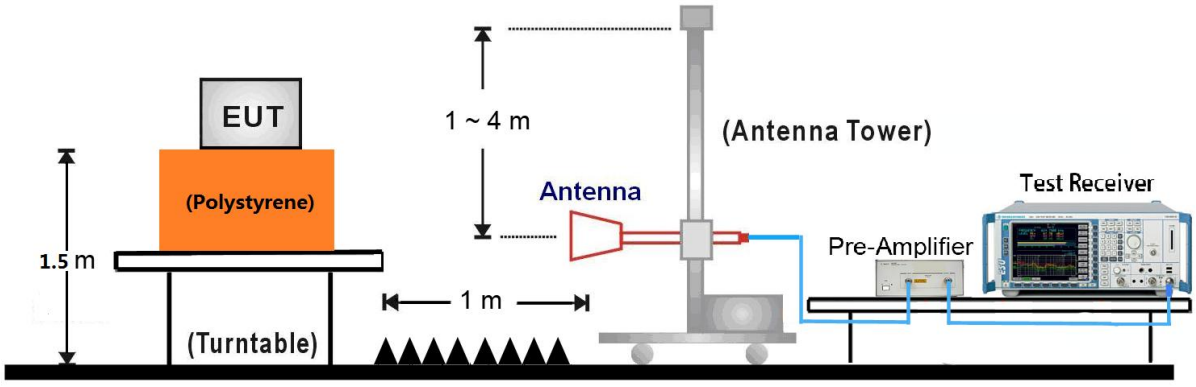
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:



18GHz ~25GHz Test Setup:



7.6.5. Test Result

Test Mode:	BLE_1M	Test Date:	2024-06-19
Test Channel:	00	Test Engineer:	Stone Zhang
Remark:	Average measurement was not performed if peak level lower than average limit. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Frequency (MHz)	Level (dBμV/m)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
1062.6667	39.44	-19.36	74.00	34.56	Peak	Horizontal
2125.3333	40.97	-12.56	74.00	33.03	Peak	Horizontal
4805.0000	47.51	-2.04	74.00	26.49	Peak	Horizontal
7525.0000	47.68	0.59	74.00	26.32	Peak	Horizontal
1065.3333	45.51	-18.20	74.00	28.49	Peak	Vertical
2132.0000	44.47	-12.16	74.00	29.53	Peak	Vertical
4800.0000	47.59	-2.56	74.00	26.41	Peak	Vertical
8325.0000	49.29	2.24	74.00	24.71	Peak	Vertical

Test Mode:	BLE_1M	Test Date:	2024-06-19
Test Channel:	19	Test Engineer:	Stone Zhang
Remark:	Average measurement was not performed if peak level lower than average limit. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Frequency (MHz)	Level (dBμV/m)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
1118.6667	42.87	-19.02	74.00	31.13	Peak	Horizontal
2213.3333	42.73	-12.08	74.00	31.27	Peak	Horizontal
4880.0000	48.36	-1.69	74.00	25.64	Peak	Horizontal
8000.0000	49.52	2.30	74.00	24.48	Peak	Horizontal
1114.6667	47.86	-17.94	74.00	26.14	Peak	Vertical
2129.3333	47.53	-12.17	74.00	26.47	Peak	Vertical
4880.0000	47.07	-2.27	74.00	26.93	Peak	Vertical
9305.0000	50.61	4.71	74.00	23.39	Peak	Vertical

Test Mode:	BLE_1M	Test Date:	2024-06-19
Test Channel:	39	Test Engineer:	Stone Zhang
Remark:	Average measurement was not performed if peak level lower than average limit. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Frequency (MHz)	Level (dBμV/m)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
1116.0000	42.39	-19.04	74.00	31.61	Peak	Horizontal
1329.3333	37.70	-17.77	74.00	36.30	Peak	Horizontal
4960.0000	48.71	-1.29	74.00	25.29	Peak	Horizontal
7020.0000	47.60	0.12	74.00	26.40	Peak	Horizontal
1112.0000	45.26	-17.96	74.00	28.74	Peak	Vertical
2132.0000	47.29	-12.16	74.00	26.71	Peak	Vertical
4960.0000	45.30	-1.95	74.00	28.70	Peak	Vertical
8985.0000	49.85	3.60	74.00	24.15	Peak	Vertical

Test Mode:	BLE_2M	Test Date:	2024-06-19
Test Channel:	01	Test Engineer:	Stone Zhang
Remark:	Average measurement was not performed if peak level lower than average limit. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Frequency (MHz)	Level (dBμV/m)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
1112.0000	42.19	-19.07	74.00	31.81	Peak	Horizontal
2129.3333	41.08	-12.53	74.00	32.92	Peak	Horizontal
4805.0000	47.06	-2.04	74.00	26.94	Peak	Horizontal
8300.0000	49.60	2.50	74.00	24.40	Peak	Horizontal
1118.6667	43.52	-17.92	74.00	30.48	Peak	Vertical
2132.0000	44.25	-12.16	74.00	29.75	Peak	Vertical
4805.0000	47.21	-2.55	74.00	26.79	Peak	Vertical
7025.0000	47.82	0.21	74.00	26.18	Peak	Vertical

Test Mode:	BLE_2M	Test Date:	2024-06-19
Test Channel:	19	Test Engineer:	Stone Zhang
Remark:	Average measurement was not performed if peak level lower than average limit. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Frequency (MHz)	Level (dBμV/m)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
1120.0000	40.75	-19.02	74.00	33.25	Peak	Horizontal
1597.3333	38.87	-16.09	74.00	35.13	Peak	Horizontal
4880.0000	48.26	-1.69	74.00	25.74	Peak	Horizontal
8340.0000	50.02	2.76	74.00	23.98	Peak	Horizontal
1114.6667	44.55	-17.94	74.00	29.45	Peak	Vertical
1462.6667	39.23	-16.13	74.00	34.77	Peak	Vertical
4880.0000	45.42	-2.27	74.00	28.58	Peak	Vertical
7980.0000	48.54	1.25	74.00	25.46	Peak	Vertical

Test Mode:	BLE_2M	Test Date:	2024-06-19
Test Channel:	38	Test Engineer:	Stone Zhang
Remark:	Average measurement was not performed if peak level lower than average limit. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

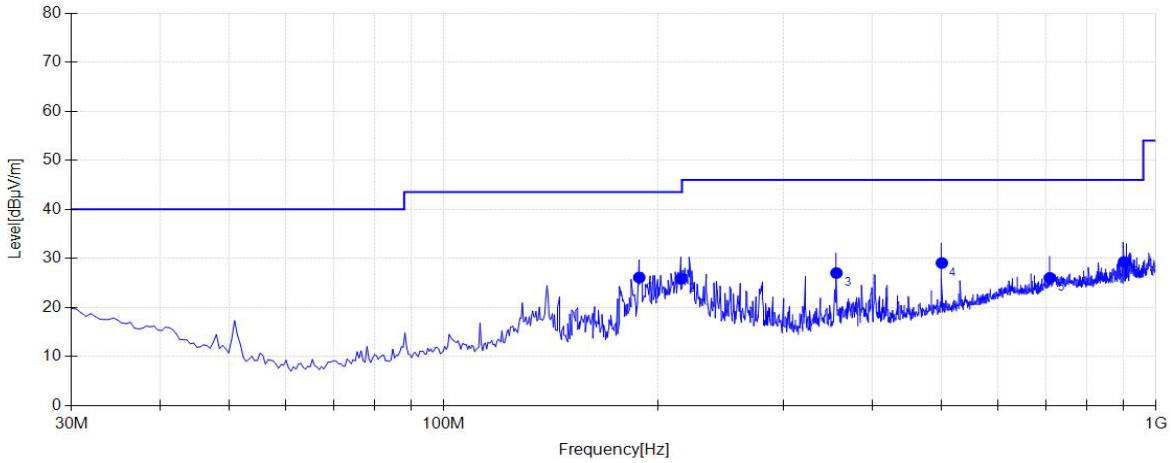
Frequency (MHz)	Level (dBμV/m)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
1120.0000	41.07	-19.02	74.00	32.93	Peak	Horizontal
1534.6667	40.03	-16.50	74.00	33.97	Peak	Horizontal
4955.0000	48.64	-1.34	74.00	25.36	Peak	Horizontal
7920.0000	49.43	2.05	74.00	24.57	Peak	Horizontal
1146.6667	46.19	-17.76	74.00	27.81	Peak	Vertical
2130.6667	46.63	-12.16	74.00	27.37	Peak	Vertical
4955.0000	46.41	-2.00	74.00	27.59	Peak	Vertical
7435.0000	48.68	0.57	74.00	25.32	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:	2024-06-19
Mode:	Transmit at BLE_1M Channel 00	Voltage:	DC 3.3V
Environment:	Temp: 22℃; Humi:55%	Engineer:	Stone Zhang

Test Graph

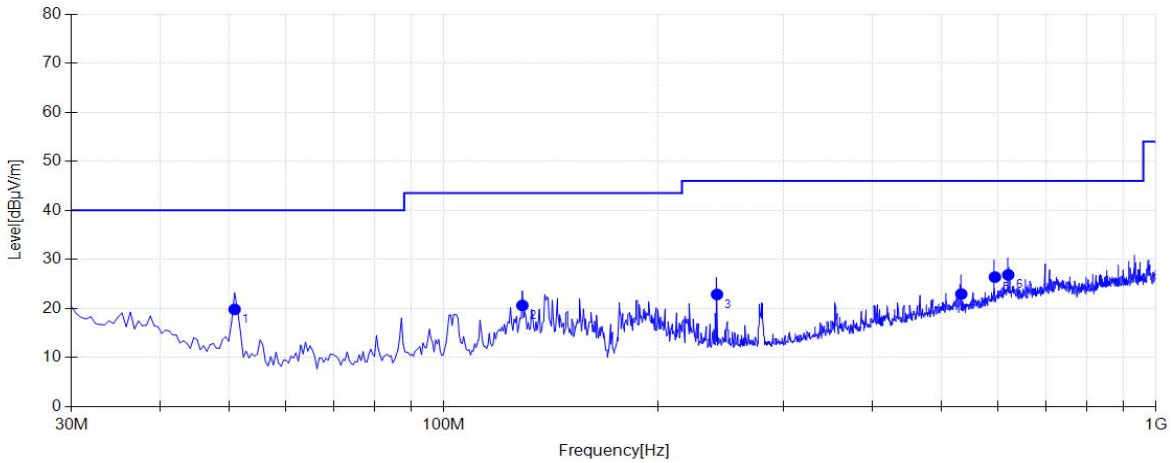


Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	188.110	10.64	26.12	43.50	17.38	200	4	Horizontal
2	215.270	10.62	25.85	43.50	17.65	200	343	Horizontal
3	355.920	14.36	27.03	46.00	18.97	100	351	Horizontal
4	500.450	18.13	29.08	46.00	16.92	200	204	Horizontal
5	709.485	21.69	26.05	46.00	19.95	100	115	Horizontal
6	902.030	23.52	29.31	46.00	16.69	100	314	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:	2024-06-19
Mode:	Transmit at BLE_1M Channel 00	Voltage:	DC 3.3V
Environment:	Temp: 22℃; Humi:55%	Engineer:	Stone Zhang

Test Graph

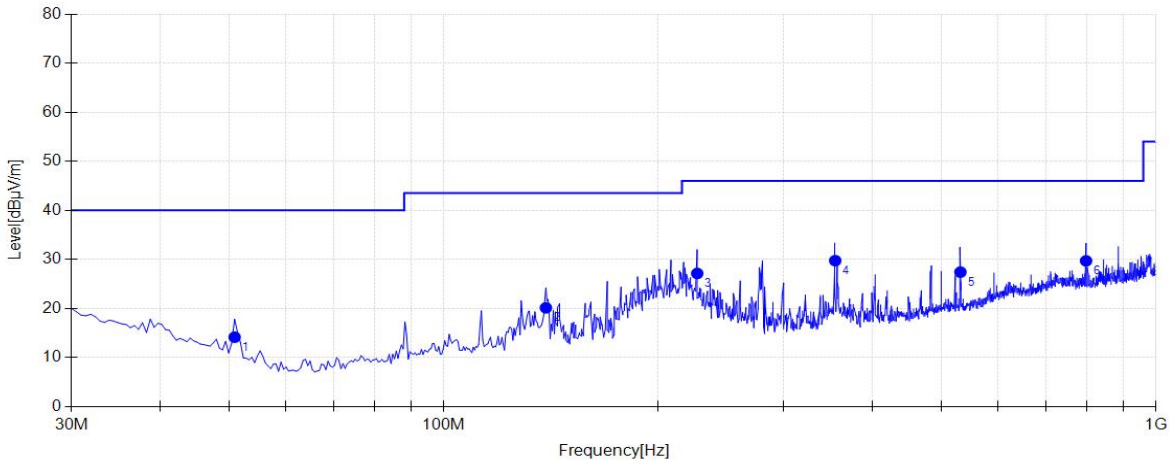


Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	50.8550	9.24	19.83	40.00	20.17	100	127	Vertical
2	128.940	11.87	20.63	43.50	22.87	100	210	Vertical
3	241.945	10.70	22.87	46.00	23.13	100	76	Vertical
4	532.945	18.22	22.95	46.00	23.05	100	233	Vertical
5	594.055	19.16	26.41	46.00	19.59	100	20	Vertical
6	620.245	19.58	26.86	46.00	19.14	200	202	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.

EUT:	2.4GHz Wi-Fi/BLE Module	Polarity:	Horizontal
Model:	EMC6083-E	Test Date:	2024-06-19
Mode:	Transmit at BLE_2M Channel 01	Voltage:	DC 3.3V
Environment:	Temp: 22℃; Humi:55%	Engineer:	Stone Zhang

Test Graph

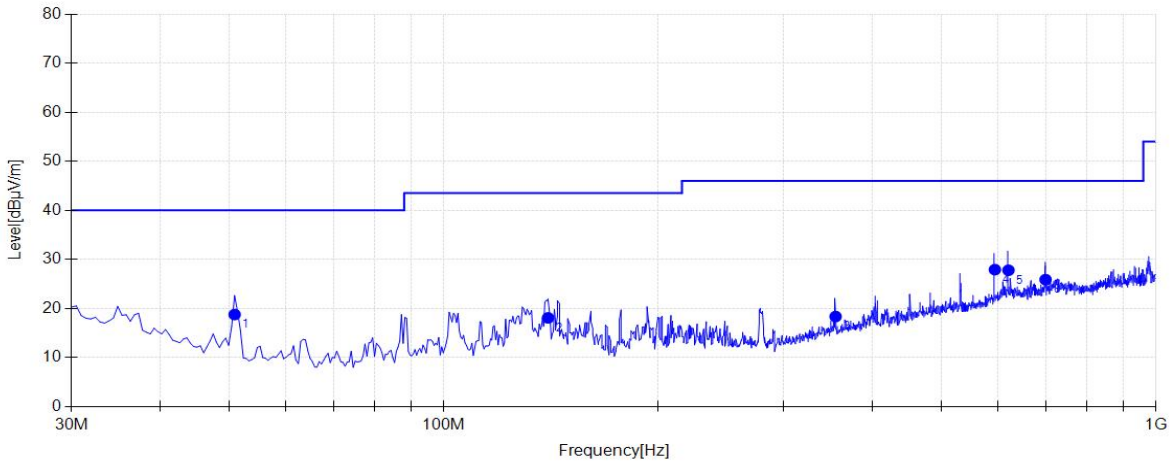


Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	50.8550	9.80	14.16	40.00	25.84	200	65	Horizontal
2	139.125	11.41	20.15	43.50	23.35	200	111	Horizontal
3	226.910	10.93	27.15	46.00	18.85	100	360	Horizontal
4	354.465	14.33	29.76	46.00	16.24	100	67	Horizontal
5	531.490	18.63	27.42	46.00	18.58	200	38	Horizontal
6	797.755	22.85	29.72	46.00	16.28	100	358	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:	2024-06-19
Mode:	Transmit at BLE_2M Channel 01	Voltage:	DC 3.3V
Environment:	Temp: 22℃; Humi:55%	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	50.8550	9.24	18.78	40.00	21.22	100	1	Vertical
2	140.095	10.83	18.10	43.50	25.40	100	147	Vertical
3	354.950	13.78	18.37	46.00	27.63	200	303	Vertical
4	594.055	19.16	27.92	46.00	18.08	200	50	Vertical
5	620.730	19.59	27.80	46.00	18.20	100	6	Vertical
6	699.785	20.98	25.89	46.00	20.11	100	270	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

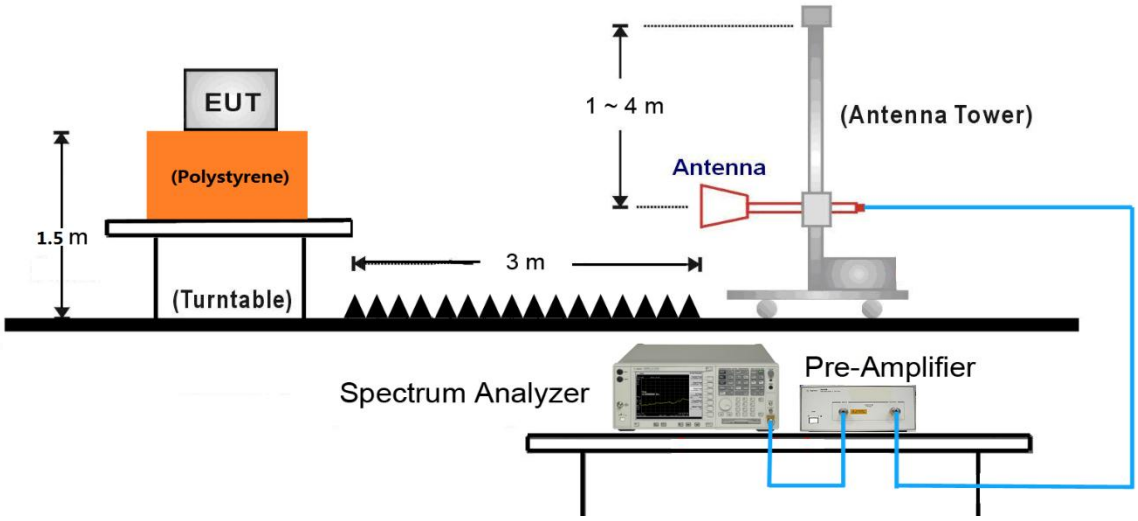
Peak Field Strength Measurements

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 ≥ 2 x span / RBW)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

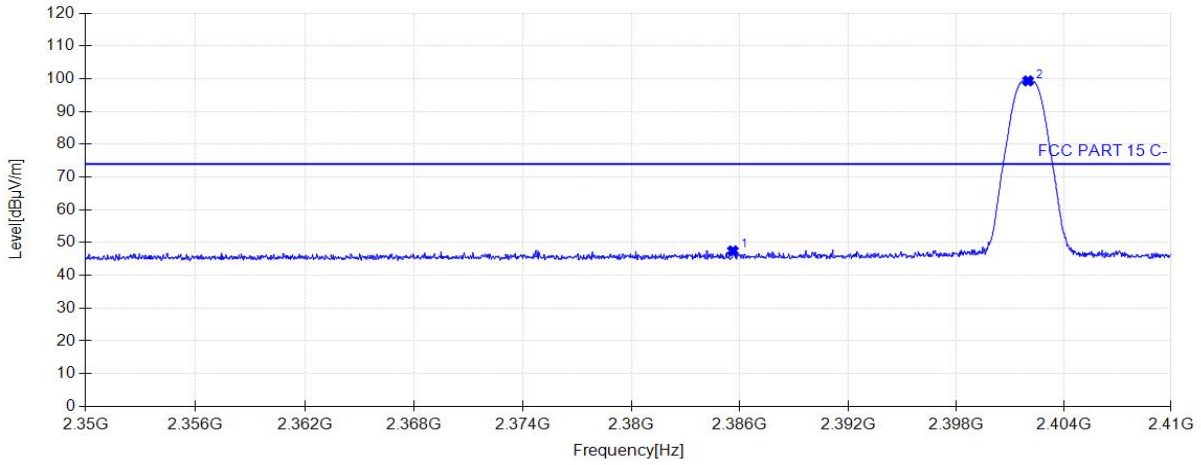
7.7.4. Test Setup



7.7.5. Test Result

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-06-26	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at BLE_1M Channel 00		

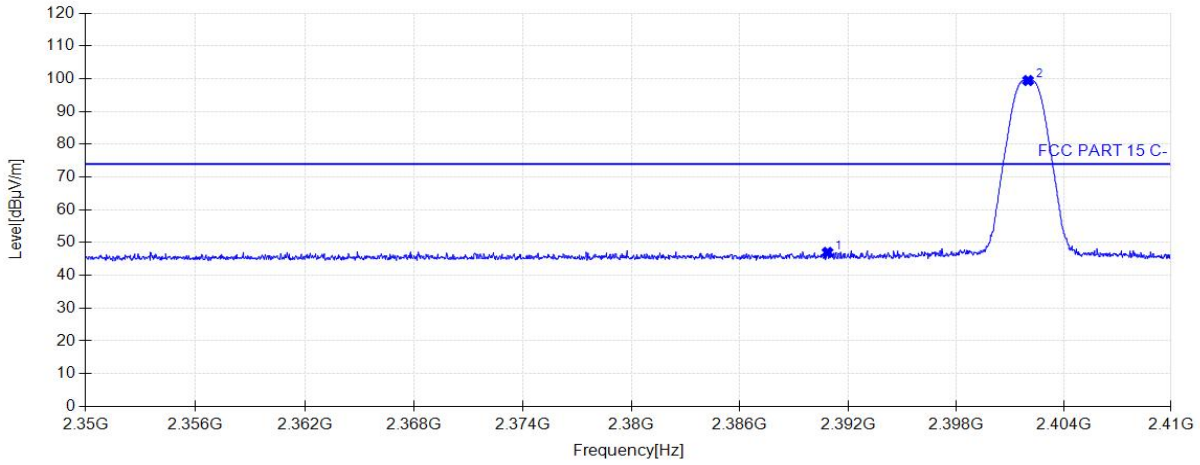
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.6100	47.46	33.19	74.00	26.54	150	331	Horizontal
2	2402.0200	99.32	33.24	/	/	150	143	Horizontal

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-06-26	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at BLE_1M Channel 00		

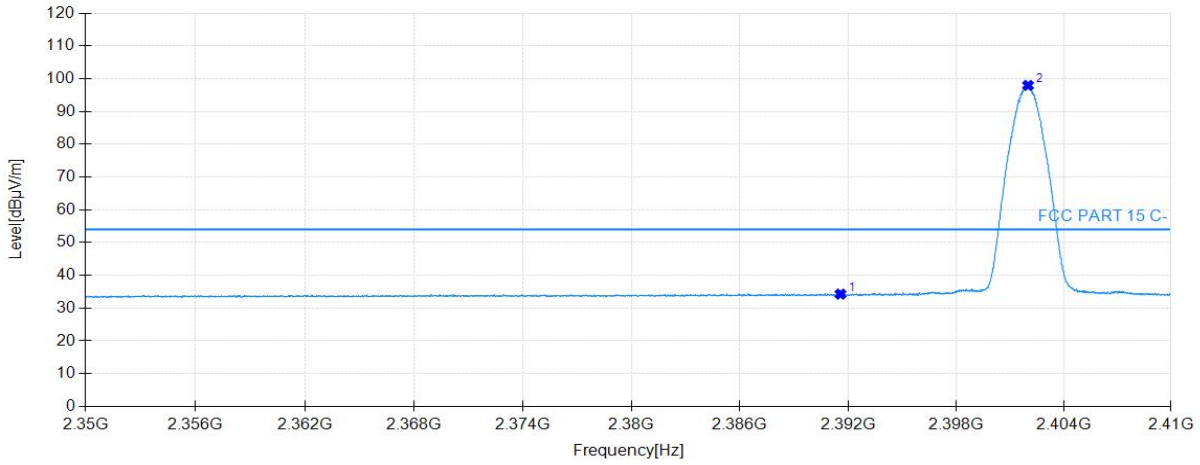
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.8600	47.00	33.10	74.00	27.00	150	209	Vertical
2	2402.0200	99.43	33.12	/	/	150	351	Vertical

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-06-26	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at BLE_1M Channel 00		

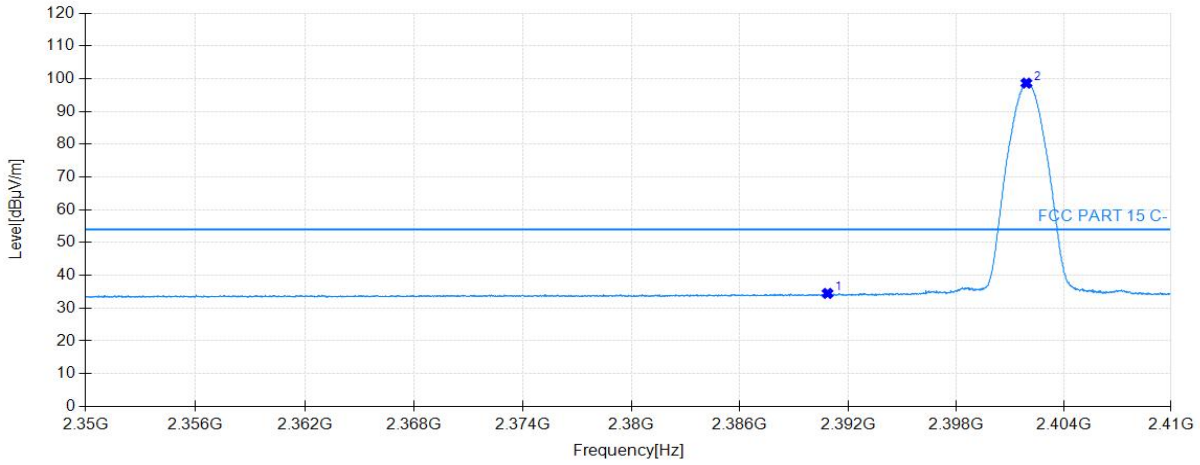
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.5800	34.27	33.10	54.00	19.73	160	348	Horizontal
2	2402.0200	97.94	33.24	/	/	160	181	Horizontal

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-06-26	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at BLE_1M Channel 00		

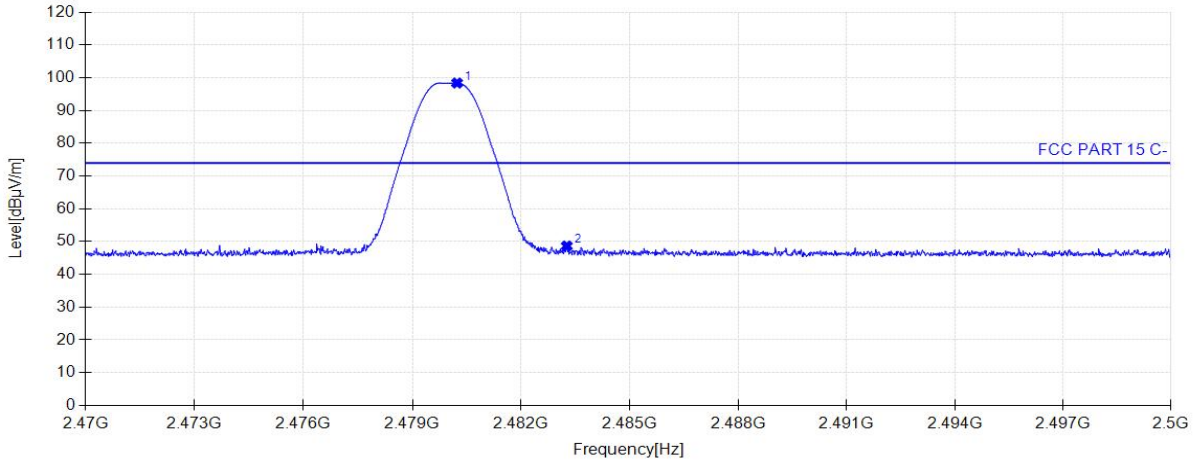
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.8600	34.49	33.10	54.00	19.51	160	2	Vertical
2	2401.9300	98.64	33.12	/	/	160	356	Vertical

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-06-26	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at BLE_1M Channel 39		

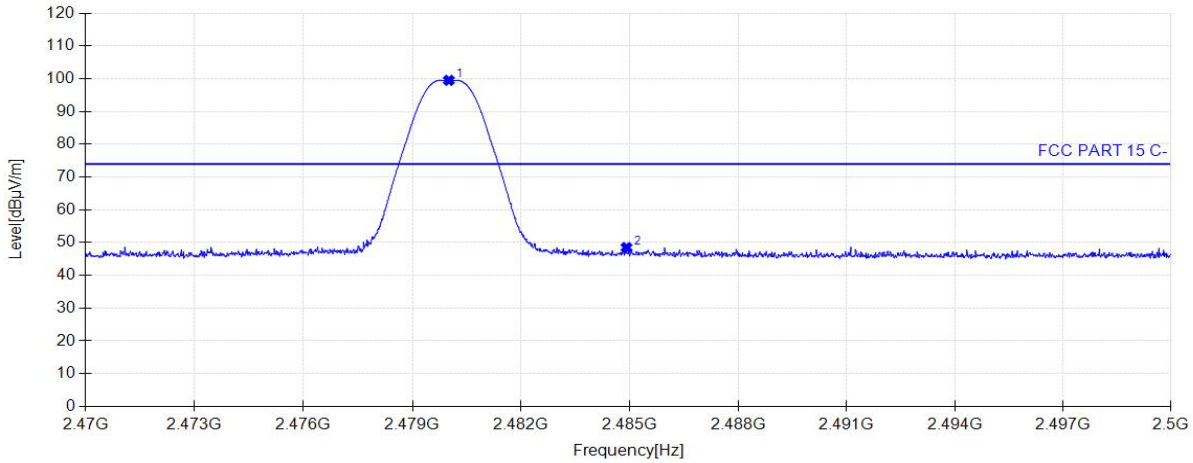
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.2300	98.37	33.46	/	/	160	82	Horizontal
2	2483.5600	48.65	33.47	74.00	25.35	160	102	Horizontal

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-06-26	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at BLE_1M Channel 39		

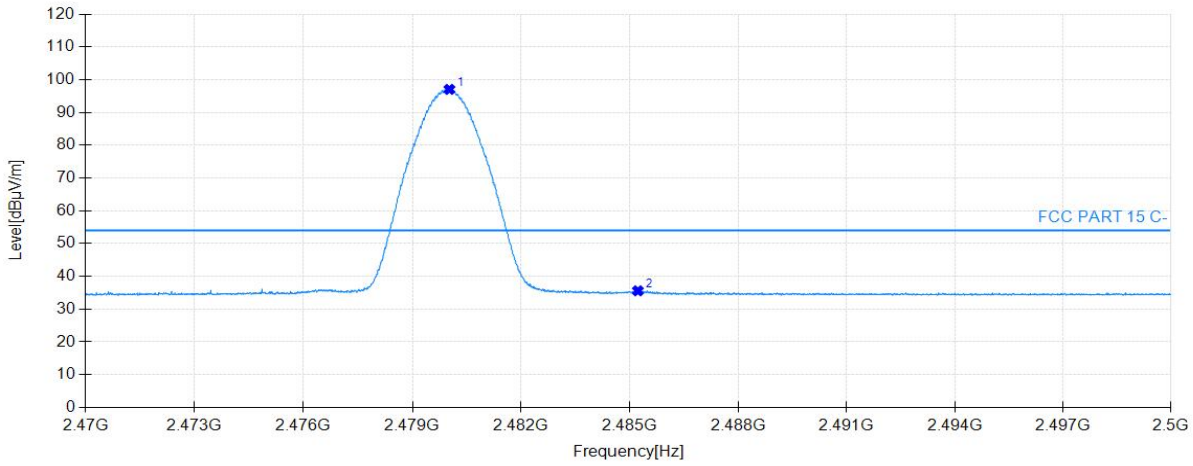
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.0050	99.49	33.20	/	/	160	18	Vertical
2	2484.9100	48.49	33.20	74.00	25.51	160	119	Vertical

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-06-26	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at BLE_1M Channel 39		

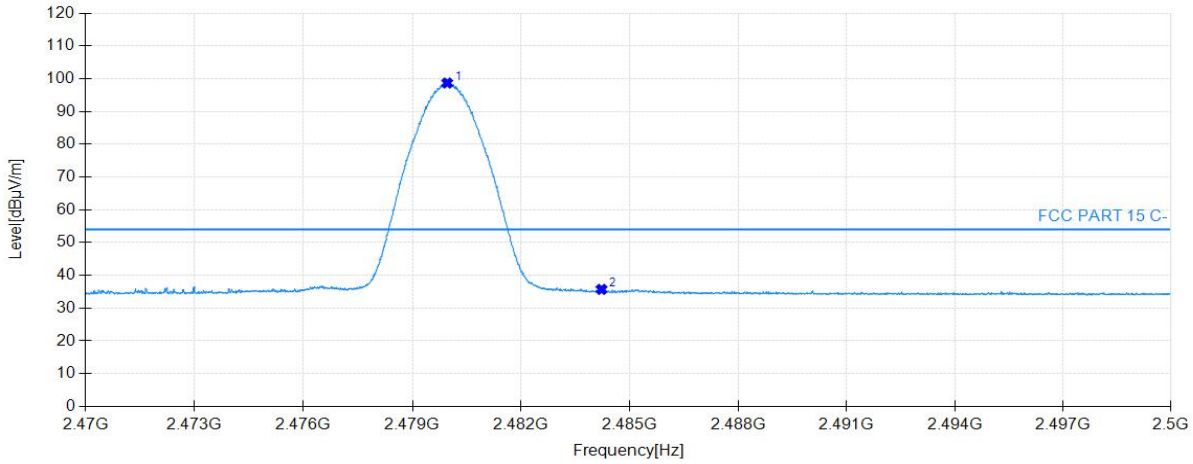
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.0200	97.04	33.46	/	/	160	337	Horizontal
2	2485.2250	35.58	33.48	54.00	18.42	160	203	Horizontal

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-06-26	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at BLE_1M Channel 39		

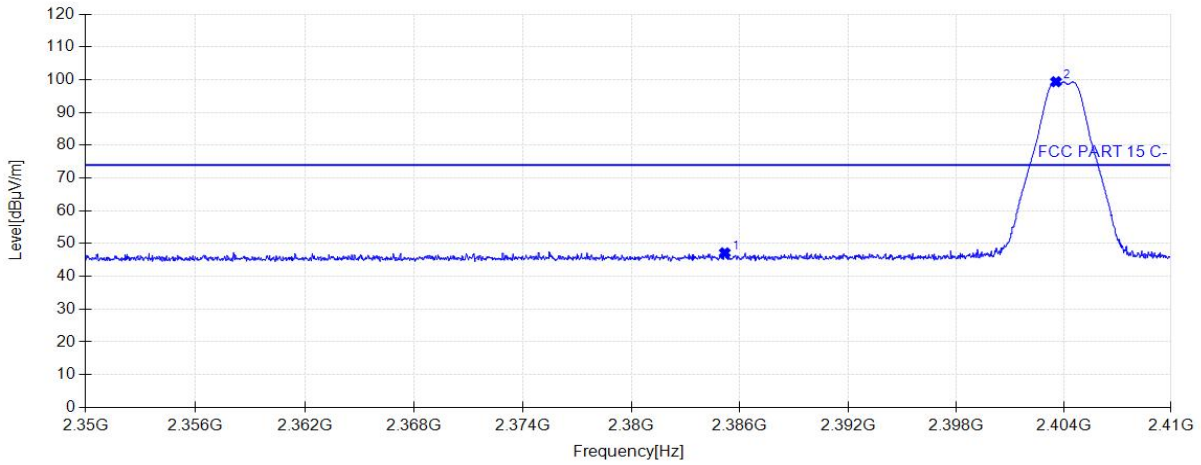
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2479.9600	98.67	33.20	/	/	160	19	Vertical
2	2484.2200	35.72	33.20	54.00	18.28	160	93	Vertical

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-06-26	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at BLE_2M Channel 01		

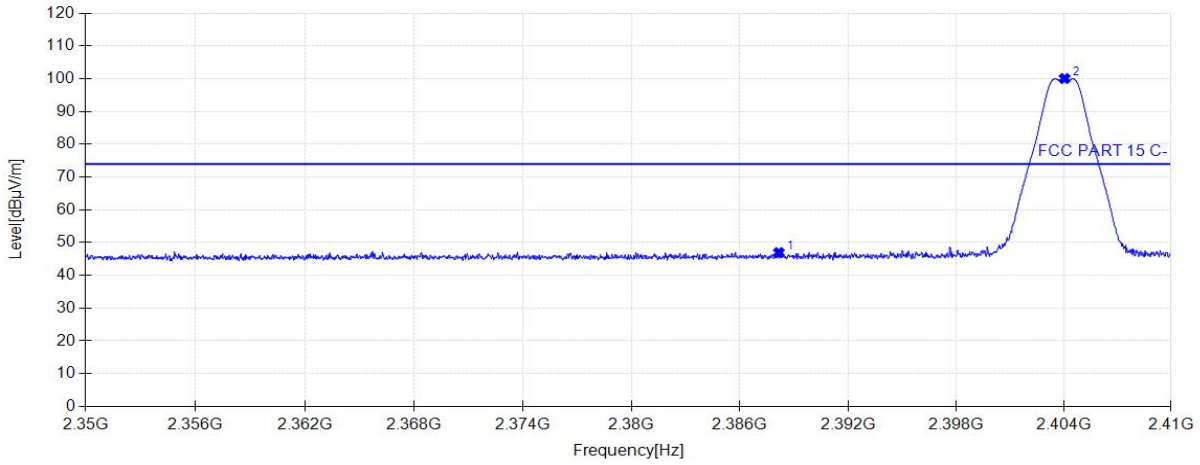
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.1600	47.16	33.19	74.00	26.84	150	229	Horizontal
2	2403.5800	99.37	33.24	/	/	150	147	Horizontal

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-06-26	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at BLE_2M Channel 01		

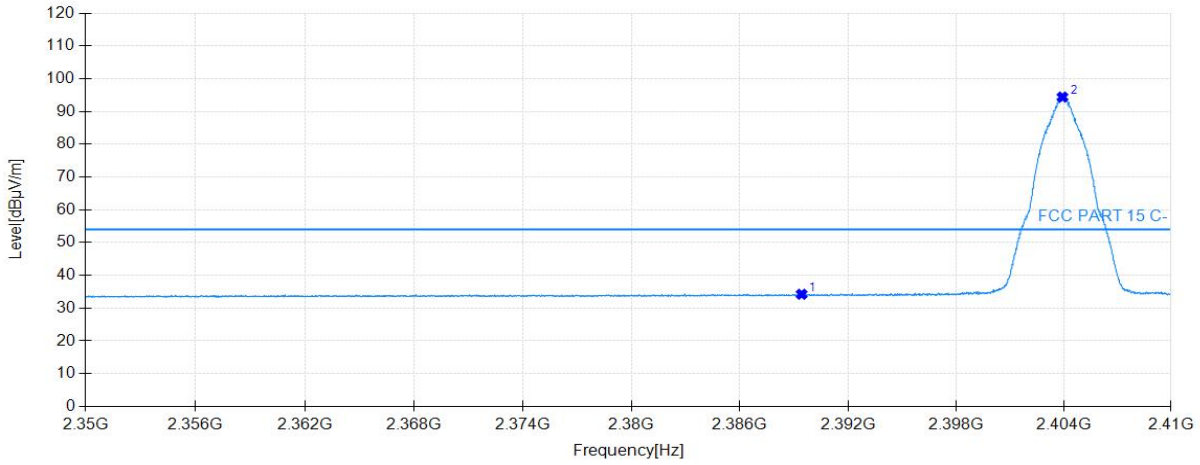
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.1600	46.93	33.10	74.00	27.07	150	170	Vertical
2	2404.0600	100.05	33.12	/	/	150	352	Vertical

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-06-26	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at BLE_2M Channel 01		

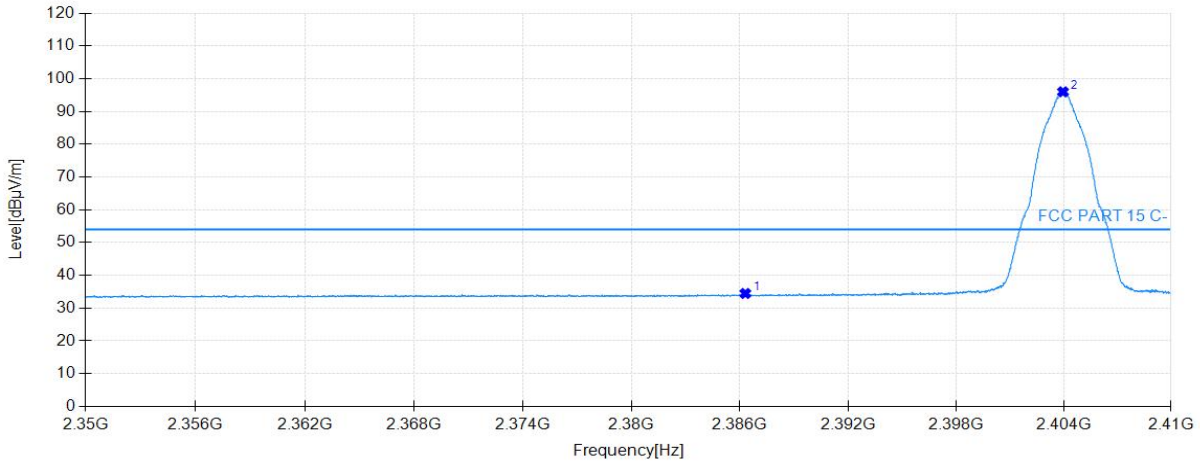
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.4200	34.23	33.20	54.00	19.77	160	317	Horizontal
2	2403.9400	94.40	33.25	/	/	160	178	Horizontal

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-06-26	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at BLE_2M Channel 01		

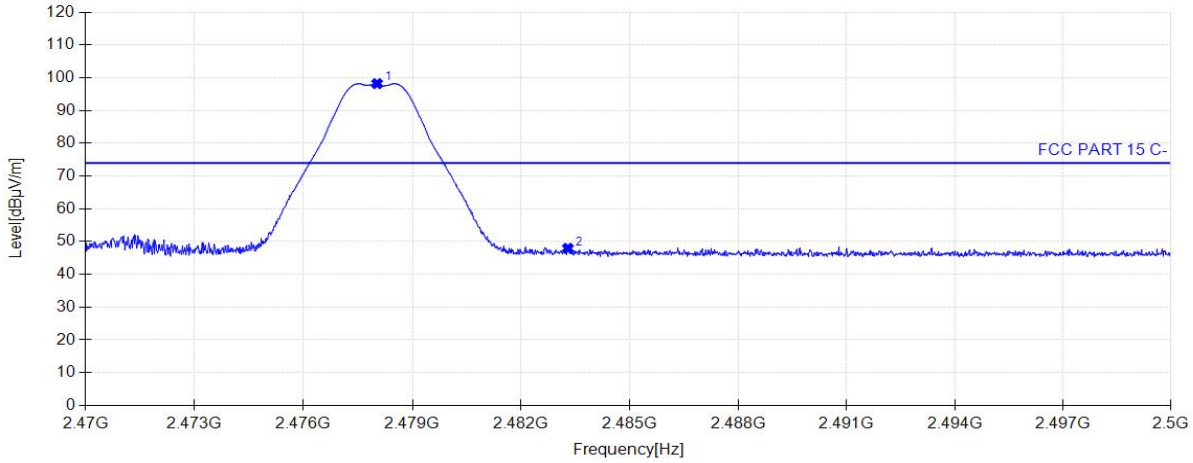
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2386.3000	34.47	33.10	54.00	19.53	160	351	Vertical
2	2403.9700	95.99	33.12	/	/	160	0	Vertical

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-06-26	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at BLE_2M Channel 38		

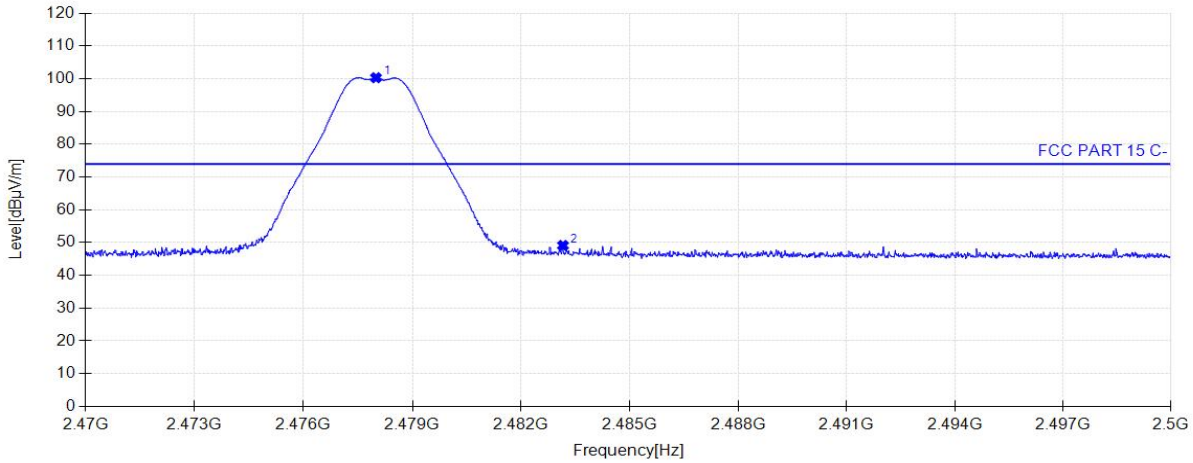
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2478.0250	98.18	33.46	/	/	160	175	Horizontal
2	2483.2900	47.94	33.47	74.00	26.06	160	197	Horizontal

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-06-26	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at BLE_2M Channel 38		

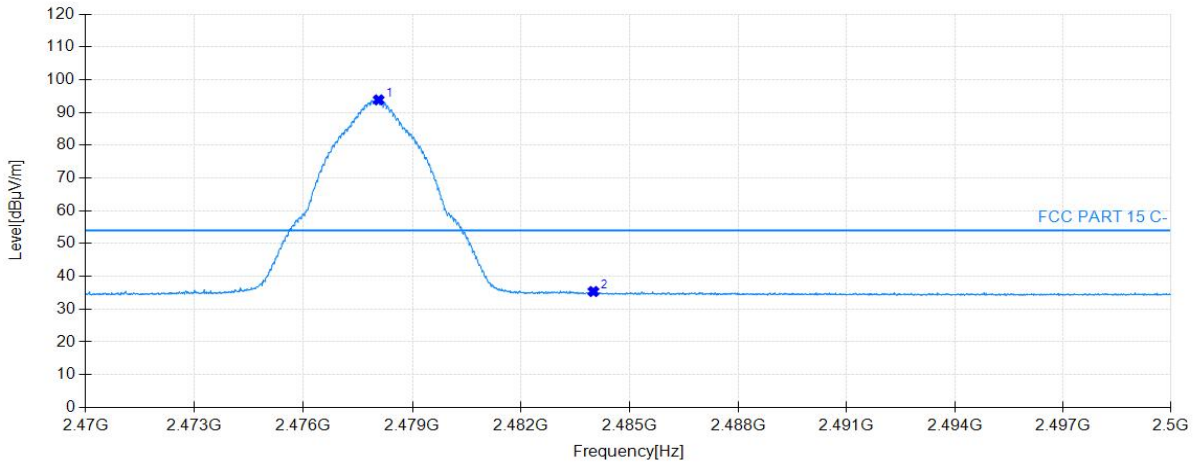
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2477.9950	100.29	33.20	/	/	160	18	Vertical
2	2483.1550	49.11	33.20	74.00	24.89	160	0	Vertical

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-06-26	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at BLE_2M Channel 38		

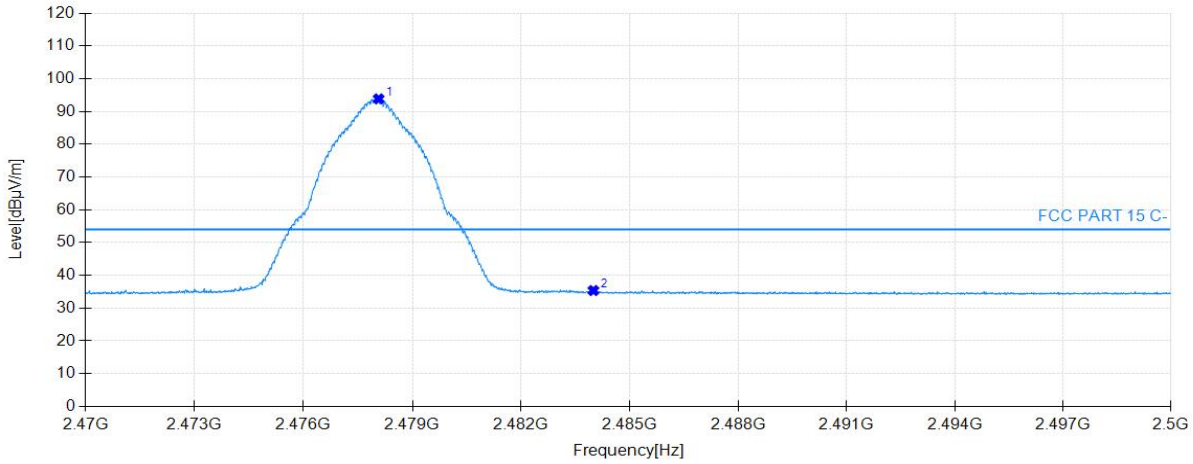
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2478.0700	93.84	33.46	/	/	160	337	Horizontal
2	2483.9950	35.37	33.47	54.00	18.63	160	197	Horizontal

Project Information			
EUT:	2.4GHz Wi-Fi/BLE Module	Model:	EMC6083-E
Test Date:	2024-06-26	Voltage:	DC 3.3V
Environment:	Temp: 23℃; Humi:56%	Engineer:	Stone Zhang
Remark:	Transmit at BLE_2M Channel 38		

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2478.0600	91.67	33.46	/	/	160	19	Vertical
2	2484.2200	35.72	33.20	54.00	18.28	160	93	Vertical

7.8. AC Conducted Emissions Measurement

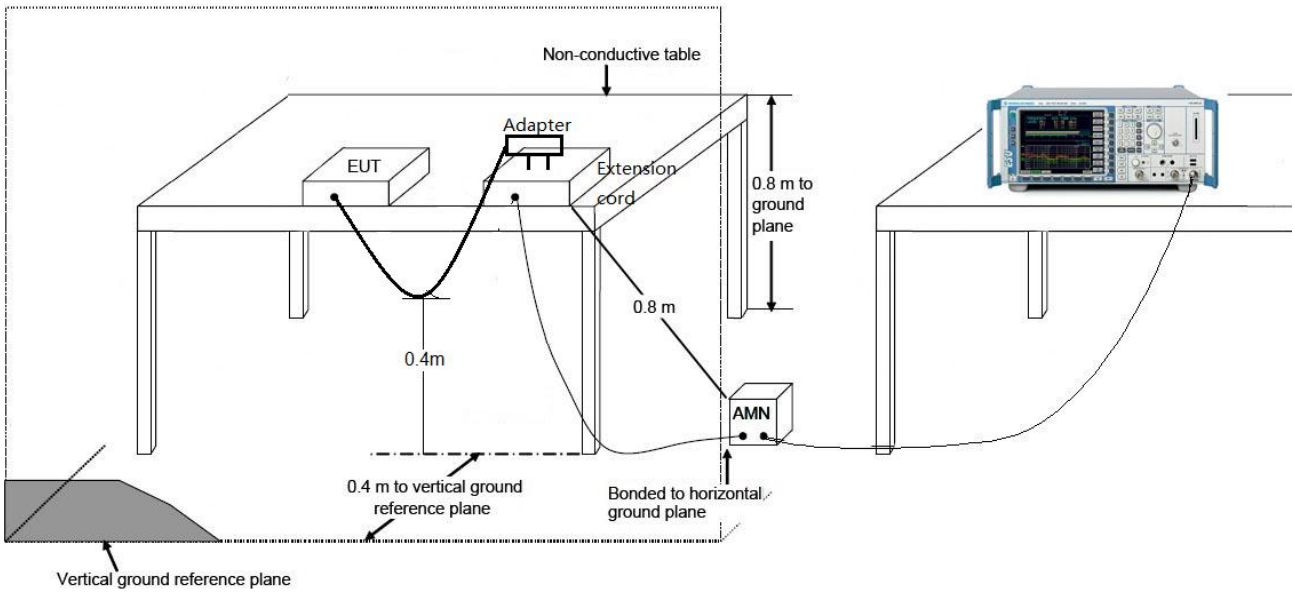
7.8.1. Test Limit

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