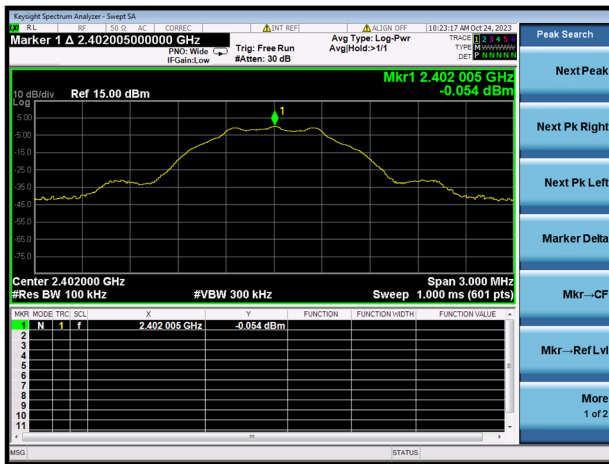
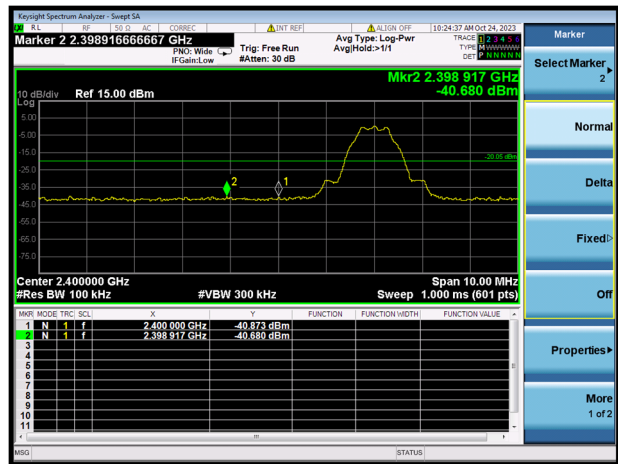


Test Plots

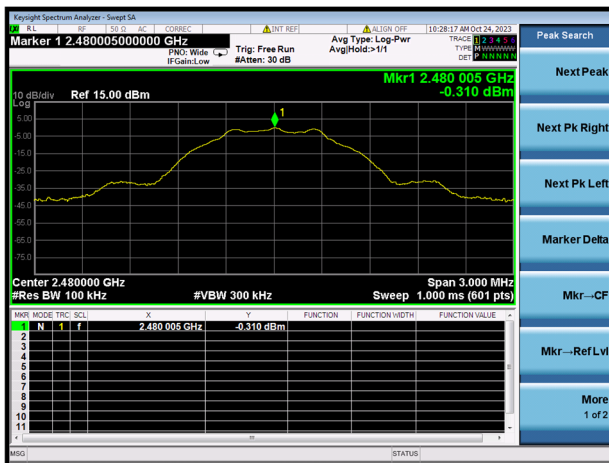
GFSK (BLE 1Mbps) LOW CHANNEL, CARRIER LEVEL



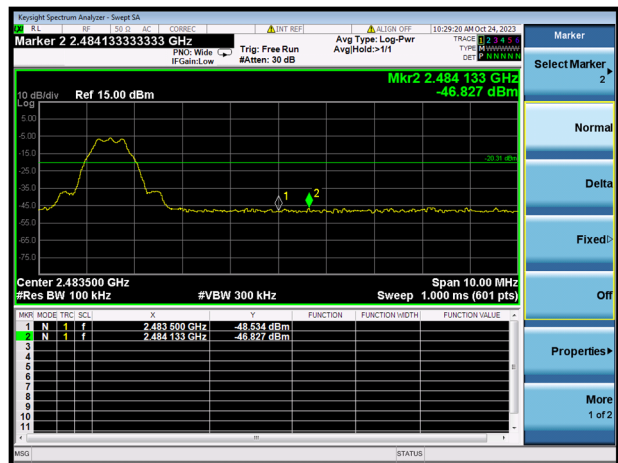
GFSK (BLE 1Mbps) LOW CHANNEL, BAND EDGE



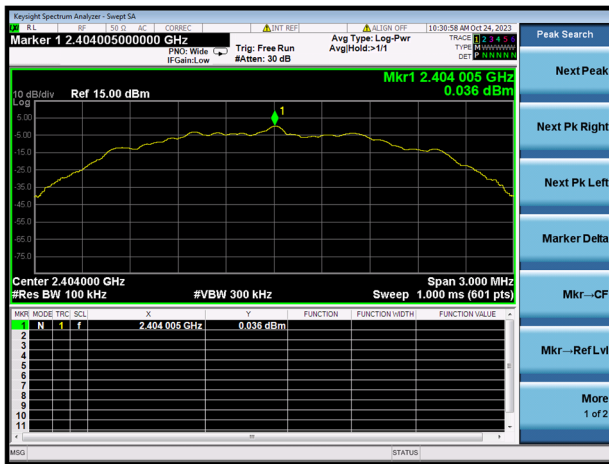
GFSK (BLE 1Mbps) HIGH CHANNEL, CARRIER LEVEL



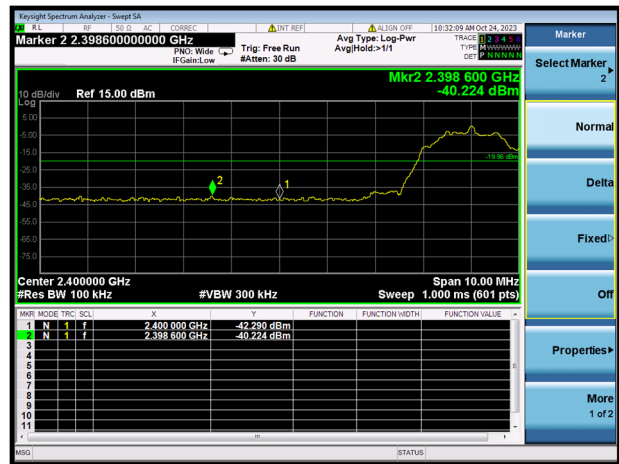
GFSK (BLE 1Mbps) HIGH CHANNEL, BAND EDGE



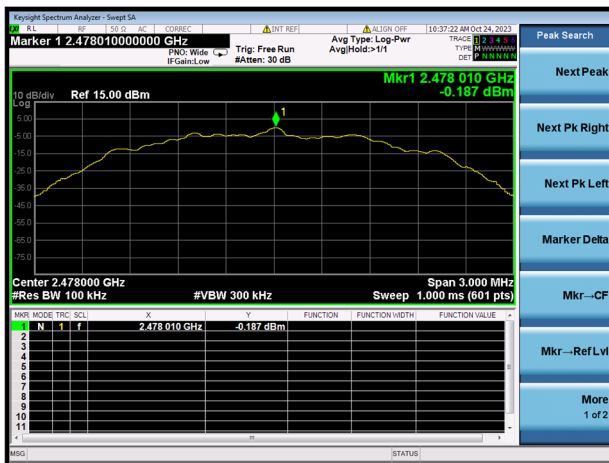
GFSK (BLE 2Mbps) LOW CHANNEL, CARRIER LEVEL



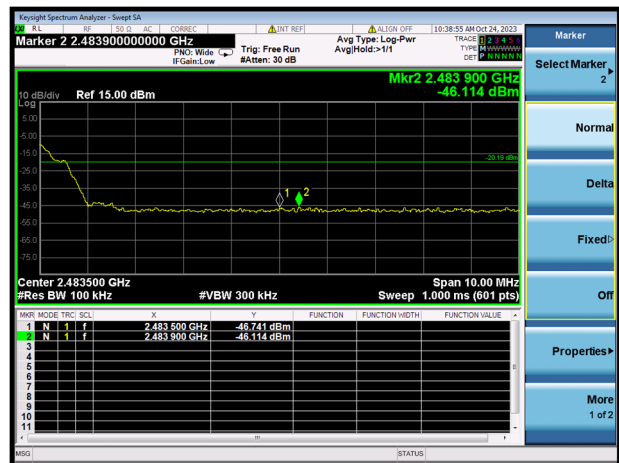
GFSK (BLE 2Mbps) LOW CHANNEL, BAND EDGE



GFSK (BLE 2Mbps) HIGH CHANNEL, CARRIER LEVEL



GFSK (BLE 2Mbps) HIGH CHANNEL, BAND EDGE



A.5 Conducted Emissions

Note ¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

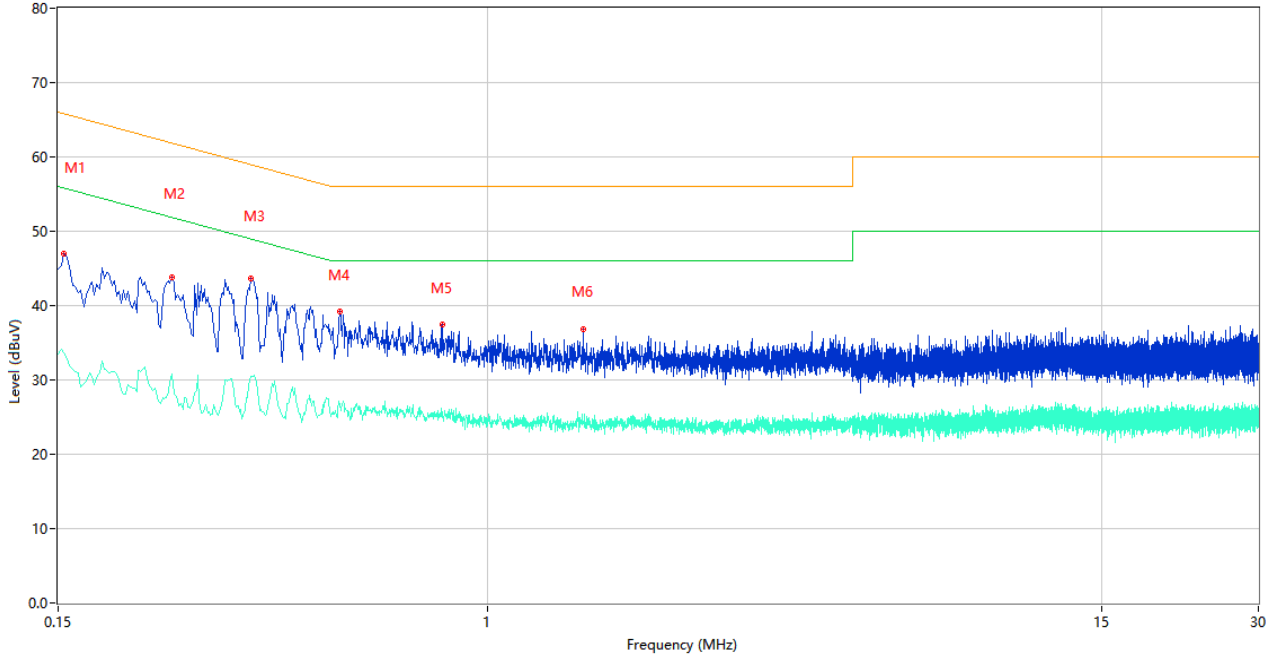
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Note ³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Test Data and Plots

PHASE L

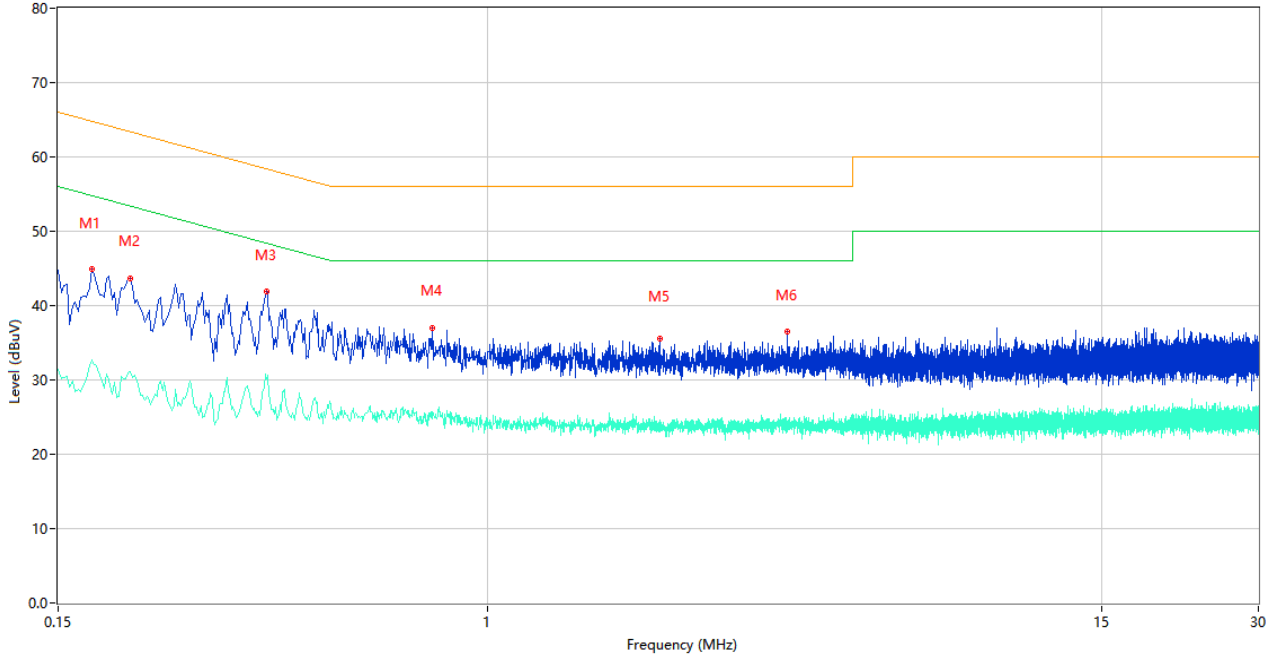
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.154	47.01	9.78	65.78	18.77	Peak	L	Pass
1**	0.154	33.60	9.78	55.78	22.18	AV	L	Pass
2	0.248	43.81	9.77	61.82	18.01	Peak	L	Pass
2**	0.248	30.80	9.77	51.82	21.02	AV	L	Pass
3	0.352	43.66	10.75	58.92	15.26	Peak	L	Pass
3**	0.352	30.46	10.75	48.92	18.46	AV	L	Pass
4	0.520	39.19	10.00	56.00	16.81	Peak	L	Pass
4**	0.520	26.86	10.00	46.00	19.14	AV	L	Pass
5	0.818	37.44	10.56	56.00	18.56	Peak	L	Pass
5**	0.818	25.69	10.56	46.00	20.31	AV	L	Pass
6	1.522	36.88	10.21	56.00	19.12	Peak	L	Pass
6**	1.522	24.06	10.21	46.00	21.94	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.174	44.87	9.78	64.77	19.90	Peak	N	Pass
1**	0.174	32.67	9.78	54.77	22.10	AV	N	Pass
2	0.206	43.60	9.77	63.37	19.77	Peak	N	Pass
2**	0.206	31.19	9.77	53.37	22.18	AV	N	Pass
3	0.376	41.85	10.65	58.37	16.52	Peak	N	Pass
3**	0.376	30.16	10.65	48.37	18.21	AV	N	Pass
4	0.782	37.02	10.41	56.00	18.98	Peak	N	Pass
4**	0.782	25.72	10.41	46.00	20.28	AV	N	Pass
5	2.140	35.56	10.15	56.00	20.44	Peak	N	Pass
5**	2.140	24.64	10.15	46.00	21.36	AV	N	Pass
6	3.750	36.46	10.45	56.00	19.54	Peak	N	Pass
6**	3.750	24.52	10.45	46.00	21.48	AV	N	Pass

A.6 Radiated Spurious Emission

Note ¹: The symbol of "--" in the table which means not application.

Note ²: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

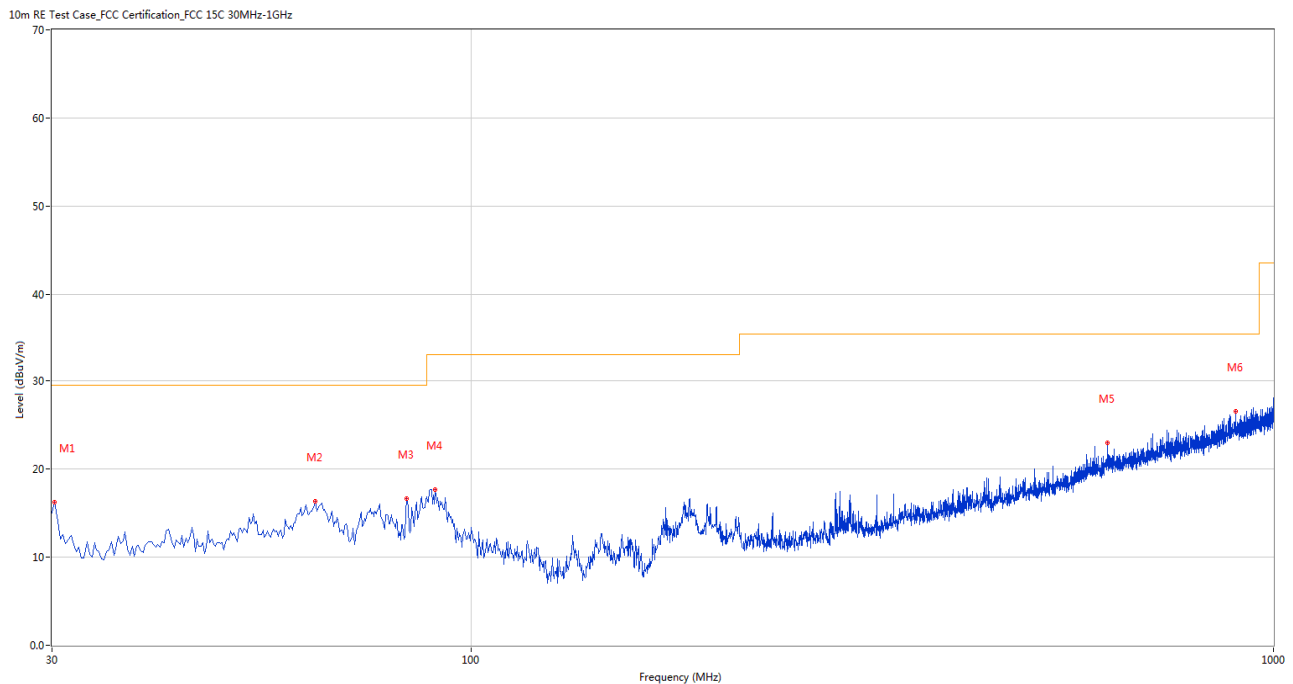
Note ³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note ⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and BLE 2M-Low channel mode is the worst.

Note ⁵: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

Test Data and Plots

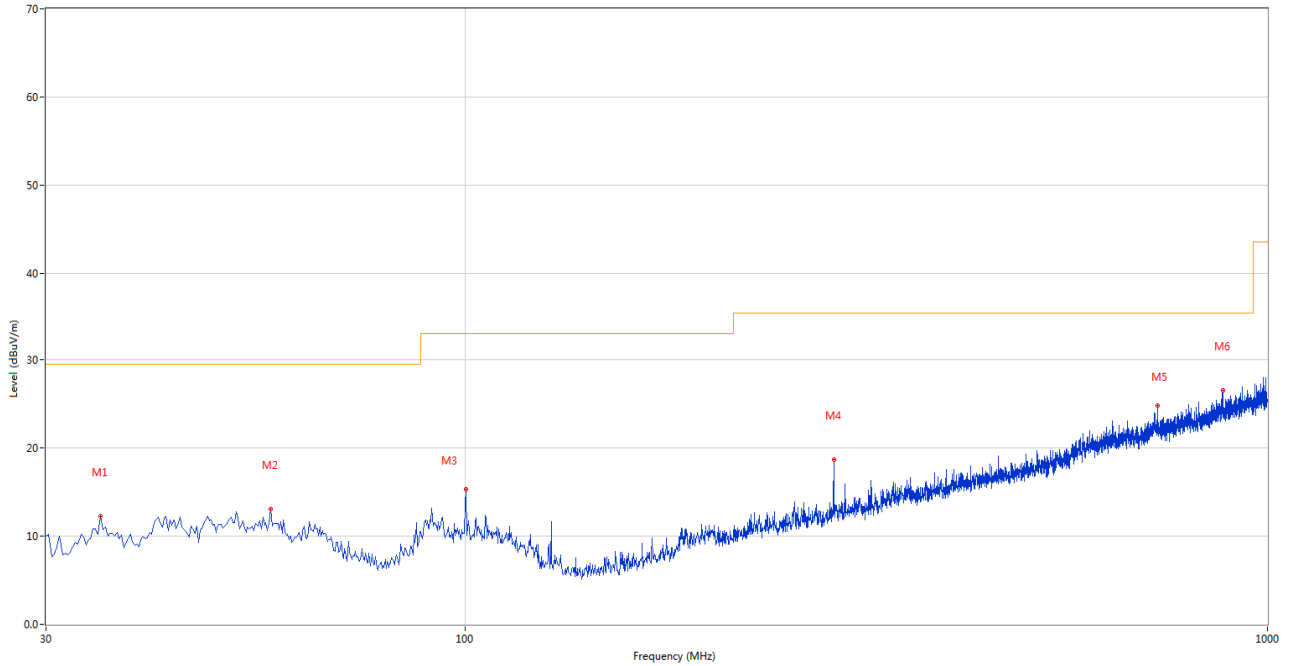
30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.242	16.26	-29.40	29.5	13.24	Peak	360.00	200	Vertical	Pass
2	63.942	16.34	-28.13	29.5	13.16	Peak	307.00	100	Vertical	Pass
3	83.094	16.65	-31.28	29.5	12.85	Peak	214.00	100	Vertical	Pass
4	90.125	17.66	-29.55	33.0	15.34	Peak	106.00	100	Vertical	Pass
5	621.552	23.03	-17.40	35.5	12.47	Peak	96.00	200	Vertical	Pass
6	896.963	26.56	-12.43	35.5	8.94	Peak	358.00	100	Vertical	Pass

30 MHz to 1 GHz, ANT V

10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



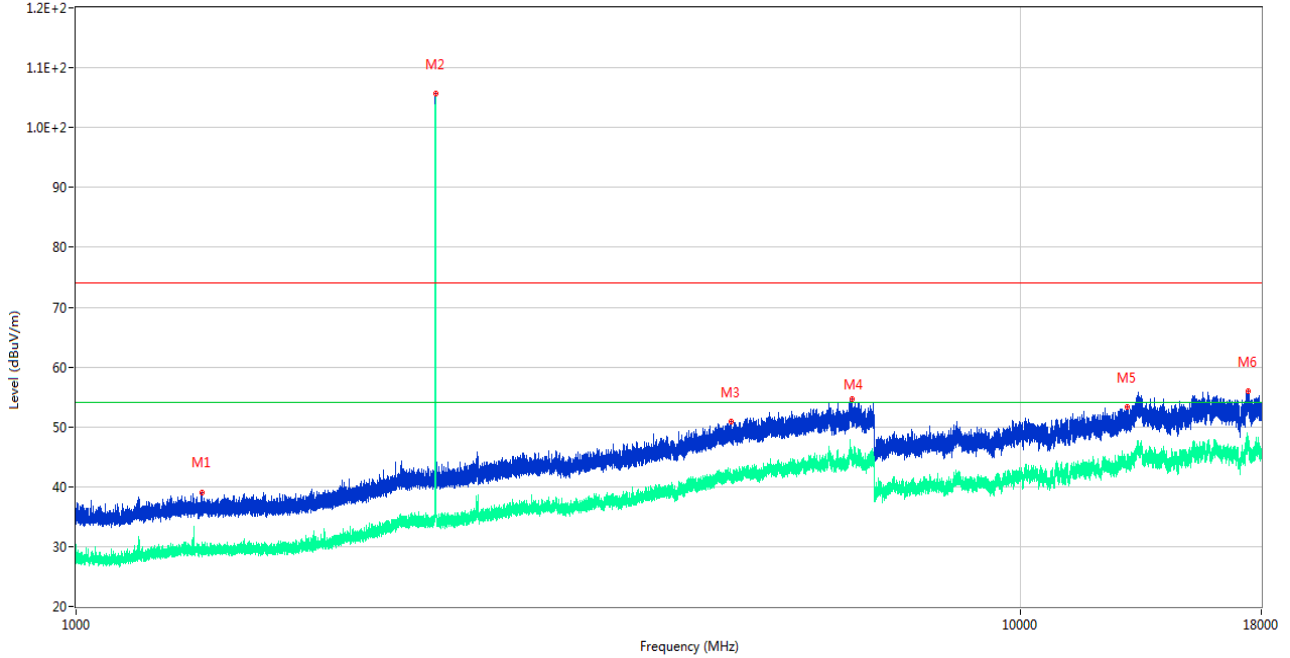
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	35.091	12.25	-28.43	29.5	17.25	Peak	360.00	200	Horizontal	Pass
2	57.153	13.11	-27.13	29.5	16.39	Peak	59.00	200	Horizontal	Pass
3	100.065	15.29	-27.96	33.0	17.71	Peak	226.00	100	Horizontal	Pass
4	287.956	18.67	-25.19	35.5	16.83	Peak	192.00	200	Horizontal	Pass
5	728.953	24.82	-15.50	35.5	10.68	Peak	360.00	200	Horizontal	Pass
6	879.508	26.54	-12.90	35.5	8.96	Peak	10.00	100	Horizontal	Pass

Note 1: The marked “N/A” spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note 2: The spurious from 18GHz-25GHz is noise only, do not show on the report.

GFSK (BLE 1Mbps) LOW CHANNEL 1 GHz to 18 GHz, ANT H

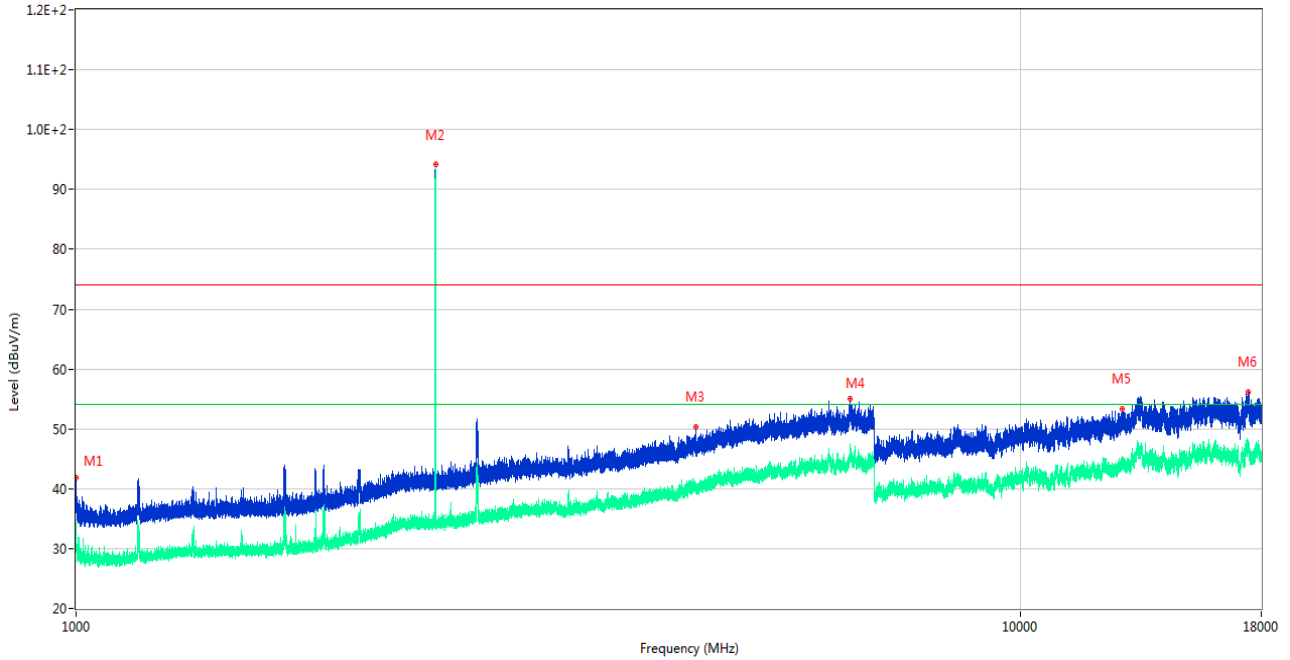
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1359.100	39.05	-17.46	74.0	34.95	Peak	246.00	100	Horizontal	Pass
1**	1359.100	29.14	-17.46	54.0	24.86	AV	246.00	100	Horizontal	Pass
2	2402.100	105.60	-12.44	74.0	-31.60	Peak	225.00	150	Horizontal	N/A
2**	2402.100	105.40	-12.44	54.0	-51.40	AV	225.00	150	Horizontal	N/A
3	4944.600	50.81	-2.92	74.0	23.19	Peak	193.00	100	Horizontal	Pass
3**	4944.600	41.92	-2.92	54.0	12.08	AV	193.00	100	Horizontal	Pass
4	6631.800	54.72	0.82	74.0	19.28	Peak	360.00	300	Horizontal	Pass
4**	6631.800	44.63	0.82	54.0	9.37	AV	360.00	300	Horizontal	Pass
5	12986.512	53.26	1.07	74.0	20.74	Peak	80.00	100	Horizontal	Pass
5**	12986.512	44.01	1.07	54.0	9.99	AV	80.00	100	Horizontal	Pass
6	17419.614	55.88	3.75	74.0	18.12	Peak	14.00	300	Horizontal	Pass
6**	17419.614	47.11	3.75	54.0	6.89	AV	14.00	300	Horizontal	Pass

GFSK (BLE 1Mbps) LOW CHANNEL 1 GHz to 18 GHz, ANT V

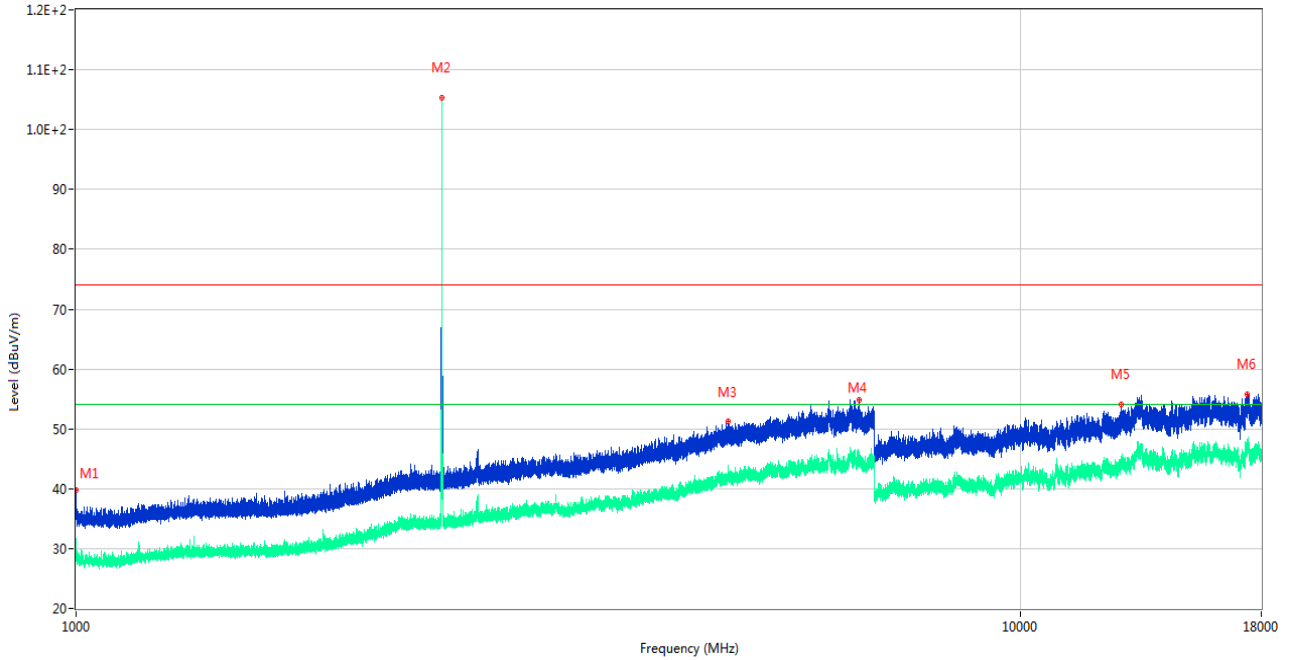
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1000.000	41.82	-18.20	74.0	32.18	Peak	68.00	200	Vertical	Pass
1**	1000.000	30.83	-18.20	54.0	23.17	AV	68.00	200	Vertical	Pass
2	2402.200	94.11	-12.43	74.0	-20.11	Peak	115.00	200	Vertical	N/A
2**	2402.200	93.76	-12.43	54.0	-39.76	AV	115.00	200	Vertical	N/A
3	4531.800	50.31	-4.26	74.0	23.69	Peak	340.00	150	Vertical	Pass
3**	4531.800	40.29	-4.26	54.0	13.71	AV	340.00	150	Vertical	Pass
4	6606.200	55.09	1.38	74.0	18.91	Peak	303.00	300	Vertical	Pass
4**	6606.200	46.01	1.38	54.0	7.99	AV	303.00	300	Vertical	Pass
5	12827.963	53.33	1.09	74.0	20.67	Peak	16.00	300	Vertical	Pass
5**	12827.963	44.69	1.09	54.0	9.31	AV	16.00	300	Vertical	Pass
6	17421.187	56.16	3.72	74.0	17.84	Peak	37.00	300	Vertical	Pass
6**	17421.187	47.79	3.72	54.0	6.21	AV	37.00	300	Vertical	Pass

GFSK (BLE 1Mbps) MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

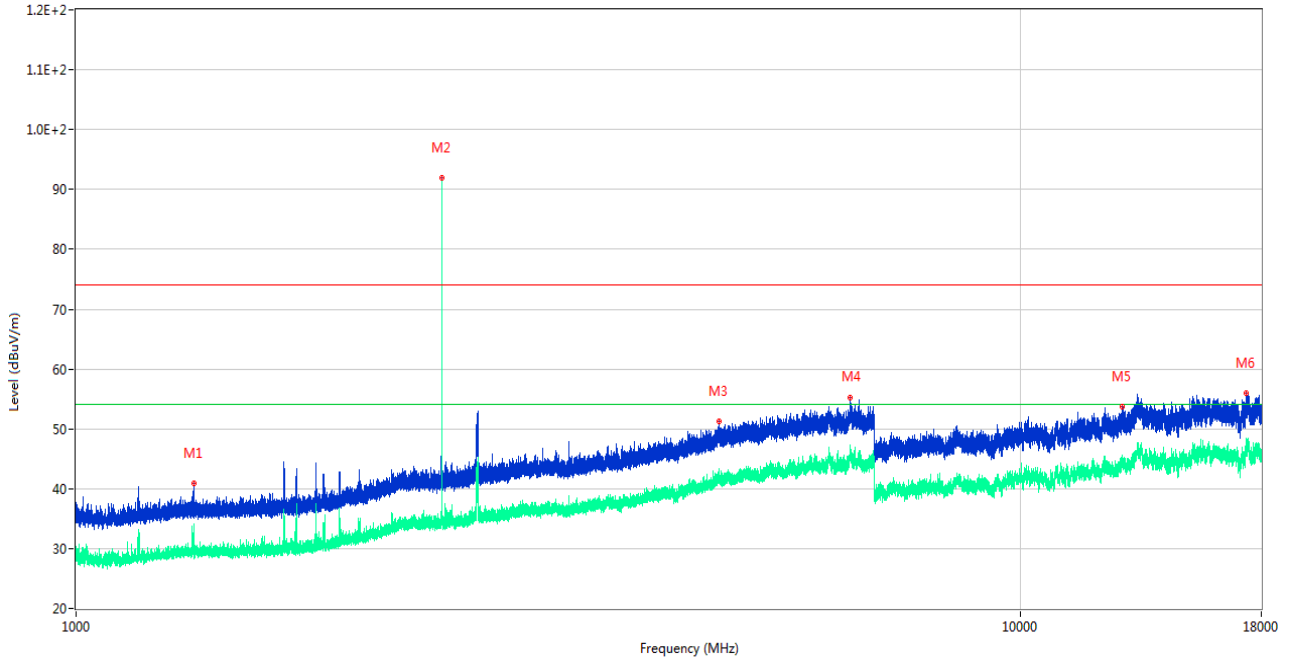
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1000.000	39.73	-18.20	74.0	34.27	Peak	174.00	200	Horizontal	Pass
1**	1000.000	31.58	-18.20	54.0	22.42	AV	174.00	200	Horizontal	Pass
2	2439.900	105.36	-12.40	74.0	-31.36	Peak	307.00	150	Horizontal	N/A
2**	2439.900	104.88	-12.40	54.0	-50.88	AV	307.00	150	Horizontal	N/A
3	4906.400	51.19	-2.27	74.0	22.81	Peak	266.00	100	Horizontal	Pass
3**	4906.400	42.50	-2.27	54.0	11.50	AV	266.00	100	Horizontal	Pass
4	6745.400	54.91	0.86	74.0	19.09	Peak	314.00	100	Horizontal	Pass
4**	6745.400	45.09	0.86	54.0	8.91	AV	314.00	100	Horizontal	Pass
5	12796.463	54.09	1.14	74.0	19.91	Peak	274.00	100	Horizontal	Pass
5**	12796.463	43.64	1.14	54.0	10.36	AV	274.00	100	Horizontal	Pass
6	17395.200	55.86	3.01	74.0	18.14	Peak	100.00	100	Horizontal	Pass
6**	17395.200	46.67	3.01	54.0	7.33	AV	100.00	100	Horizontal	Pass

GFSK (BLE 1Mbps) MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

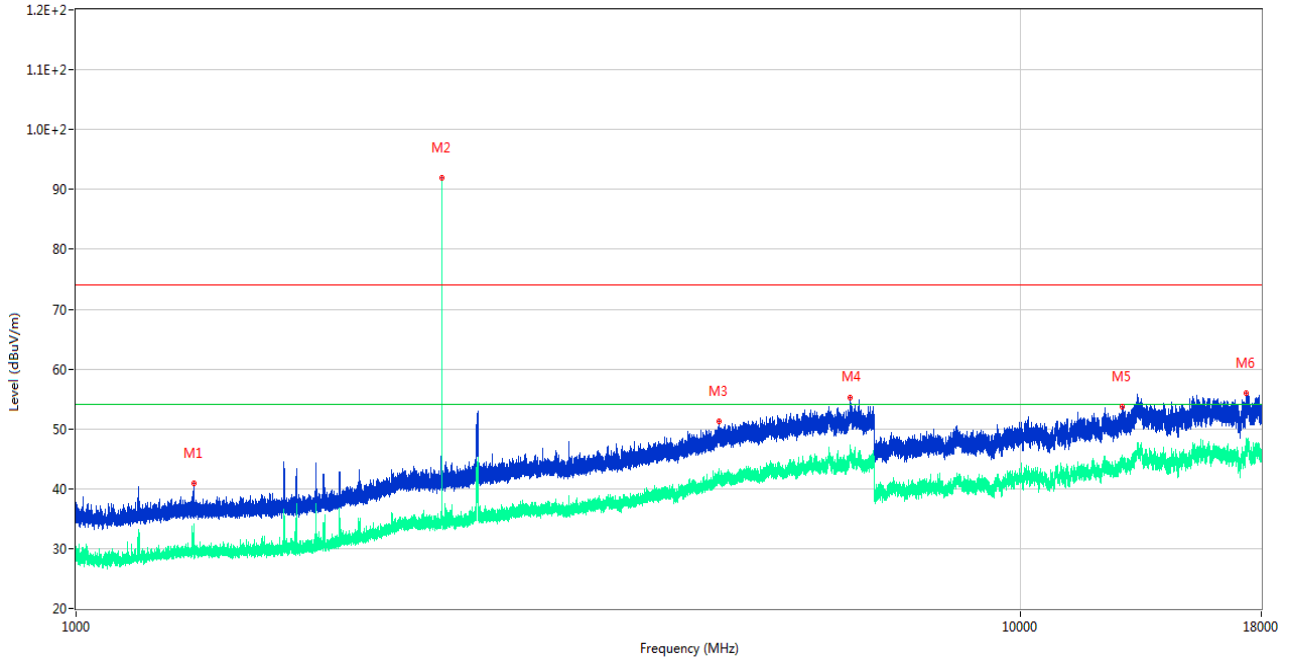
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.700	40.99	-17.50	74.0	33.01	Peak	45.00	100	Vertical	Pass
1**	1333.700	29.10	-17.50	54.0	24.90	AV	45.00	100	Vertical	Pass
2	2440.200	91.97	-12.41	74.0	-17.97	Peak	124.00	200	Vertical	N/A
2**	2440.200	91.80	-12.41	54.0	-37.80	AV	124.00	200	Vertical	N/A
3	4792.600	51.21	-2.44	74.0	22.79	Peak	207.00	150	Vertical	Pass
3**	4792.600	41.80	-2.44	54.0	12.20	AV	207.00	150	Vertical	Pass
4	6603.400	55.19	0.91	74.0	18.81	Peak	50.00	200	Vertical	Pass
4**	6603.400	45.50	0.91	54.0	8.50	AV	50.00	200	Vertical	Pass
5	12822.974	53.79	0.99	74.0	20.21	Peak	167.00	200	Vertical	Pass
5**	12822.974	44.56	0.99	54.0	9.44	AV	167.00	200	Vertical	Pass
6	17360.026	56.00	2.22	74.0	18.00	Peak	54.00	200	Vertical	Pass
6**	17360.026	46.19	2.22	54.0	7.81	AV	54.00	200	Vertical	Pass

GFSK (BLE 1Mbps) HIGH CHANNEL 1 GHz to 18 GHz, ANT H

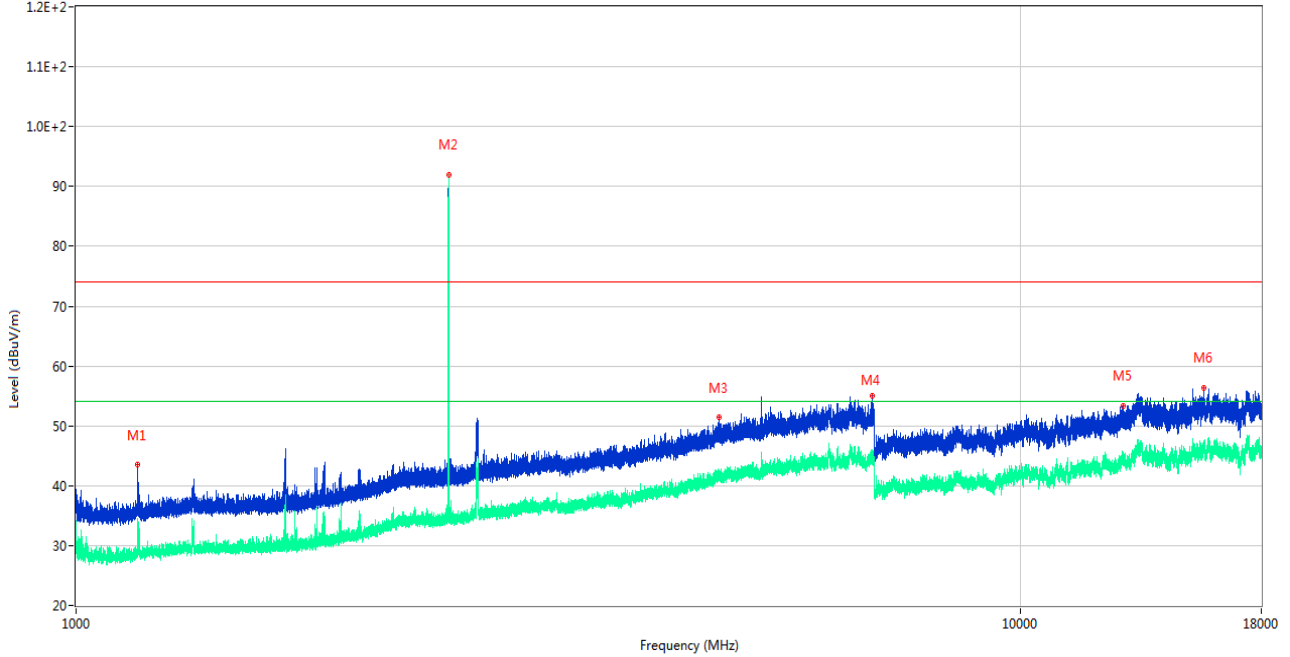
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.700	40.99	-17.50	74.0	33.01	Peak	45.00	100	Vertical	Pass
1**	1333.700	29.10	-17.50	54.0	24.90	AV	45.00	100	Vertical	Pass
2	2440.200	91.97	-12.41	74.0	-17.97	Peak	124.00	200	Vertical	N/A
2**	2440.200	91.80	-12.41	54.0	-37.80	AV	124.00	200	Vertical	N/A
3	4792.600	51.21	-2.44	74.0	22.79	Peak	207.00	150	Vertical	Pass
3**	4792.600	41.80	-2.44	54.0	12.20	AV	207.00	150	Vertical	Pass
4	6603.400	55.19	0.91	74.0	18.81	Peak	50.00	200	Vertical	Pass
4**	6603.400	45.50	0.91	54.0	8.50	AV	50.00	200	Vertical	Pass
5	12822.974	53.79	0.99	74.0	20.21	Peak	167.00	200	Vertical	Pass
5**	12822.974	44.56	0.99	54.0	9.44	AV	167.00	200	Vertical	Pass
6	17360.026	56.00	2.22	74.0	18.00	Peak	54.00	200	Vertical	Pass
6**	17360.026	46.19	2.22	54.0	7.81	AV	54.00	200	Vertical	Pass

GFSK (BLE 1Mbps) HIGH CHANNEL 1 GHz to 18 GHz, ANT V

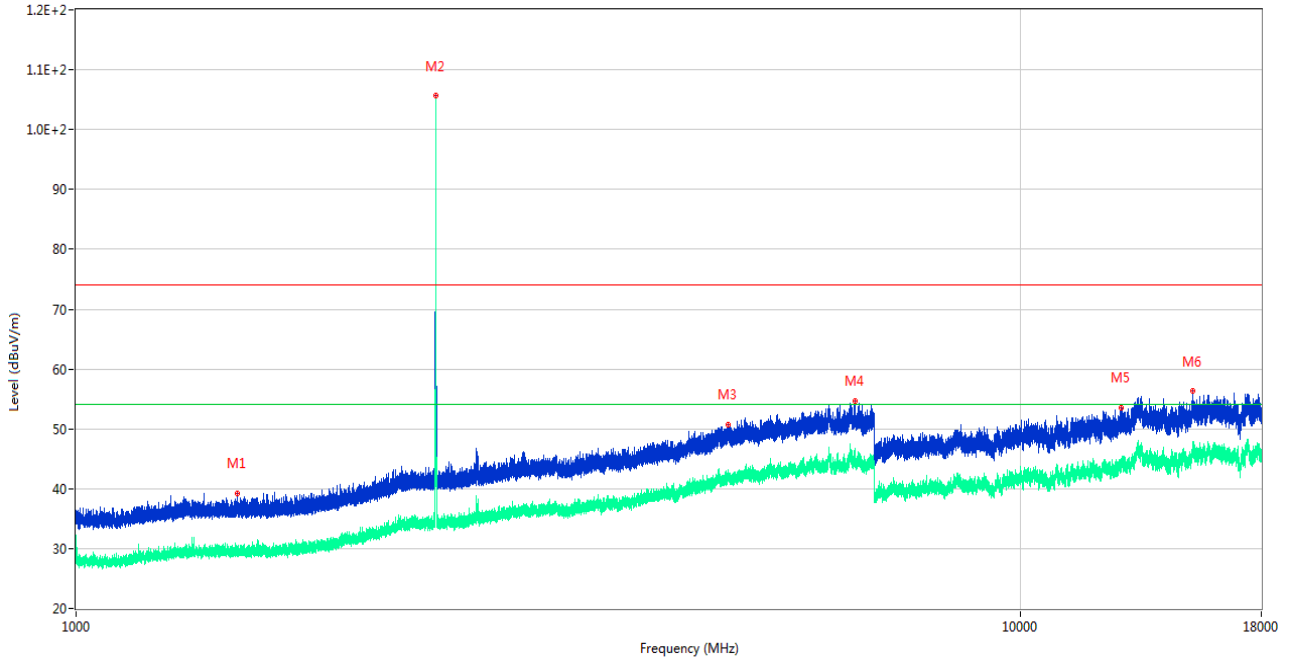
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1161.300	43.51	-17.98	74.0	30.49	Peak	96.00	400	Vertical	Pass
1**	1161.300	28.29	-17.98	54.0	25.71	AV	96.00	400	Vertical	Pass
2	2480.200	92.01	-12.01	74.0	-18.01	Peak	120.00	150	Vertical	N/A
2**	2480.200	91.71	-12.01	54.0	-37.71	AV	120.00	150	Vertical	N/A
3	4791.800	51.42	-2.48	74.0	22.58	Peak	22.00	150	Vertical	Pass
3**	4791.800	41.92	-2.48	54.0	12.08	AV	22.00	150	Vertical	Pass
4	6967.200	54.94	1.66	74.0	19.06	Peak	302.00	400	Vertical	Pass
4**	6967.200	45.02	1.66	54.0	8.98	AV	302.00	400	Vertical	Pass
5	12842.138	53.39	1.33	74.0	20.61	Peak	195.00	400	Vertical	Pass
5**	12842.138	44.21	1.33	54.0	9.79	AV	195.00	400	Vertical	Pass
6	15655.088	56.43	1.19	74.0	17.57	Peak	28.00	300	Vertical	Pass
6**	15655.088	46.01	1.19	54.0	7.99	AV	28.00	300	Vertical	Pass

GFSK (BLE 2Mbps) LOW CHANNEL 1 GHz to 18 GHz, ANT H

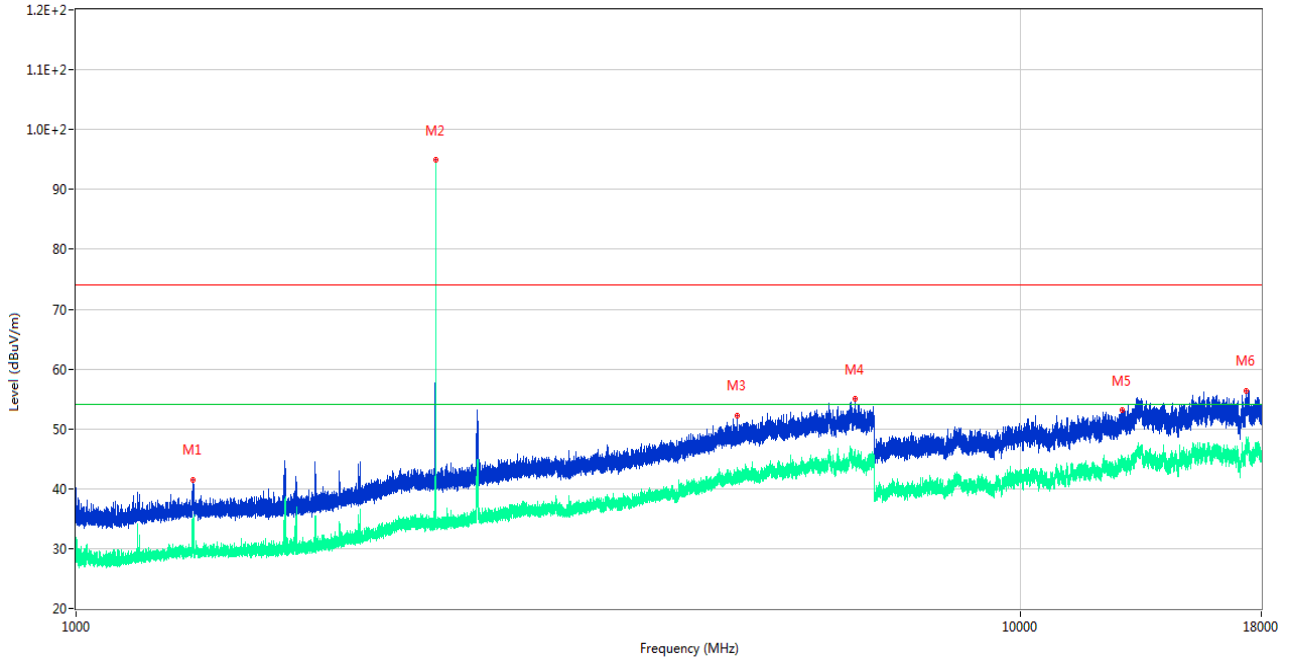
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1481.900	39.29	-17.67	74.0	34.71	Peak	53.00	100	Horizontal	Pass
1**	1481.900	29.19	-17.67	54.0	24.81	AV	53.00	100	Horizontal	Pass
2	2404.100	105.64	-12.24	74.0	-31.64	Peak	0.00	150	Horizontal	N/A
2**	2404.100	105.57	-12.24	54.0	-51.57	AV	0.00	150	Horizontal	N/A
3	4903.600	50.76	-2.39	74.0	23.24	Peak	148.00	200	Horizontal	Pass
3**	4903.600	42.07	-2.39	54.0	11.93	AV	148.00	200	Horizontal	Pass
4	6677.000	54.58	0.32	74.0	19.42	Peak	0.00	300	Horizontal	Pass
4**	6677.000	46.16	0.32	54.0	7.84	AV	0.00	300	Horizontal	Pass
5	12805.387	53.54	0.92	74.0	20.46	Peak	0.00	300	Horizontal	Pass
5**	12805.387	43.93	0.92	54.0	10.07	AV	0.00	300	Horizontal	Pass
6	15244.013	56.29	0.89	74.0	17.71	Peak	217.00	100	Horizontal	Pass
6**	15244.013	46.15	0.89	54.0	7.85	AV	217.00	100	Horizontal	Pass

GFSK (BLE 2Mbps) LOW CHANNEL 1 GHz to 18 GHz, ANT V

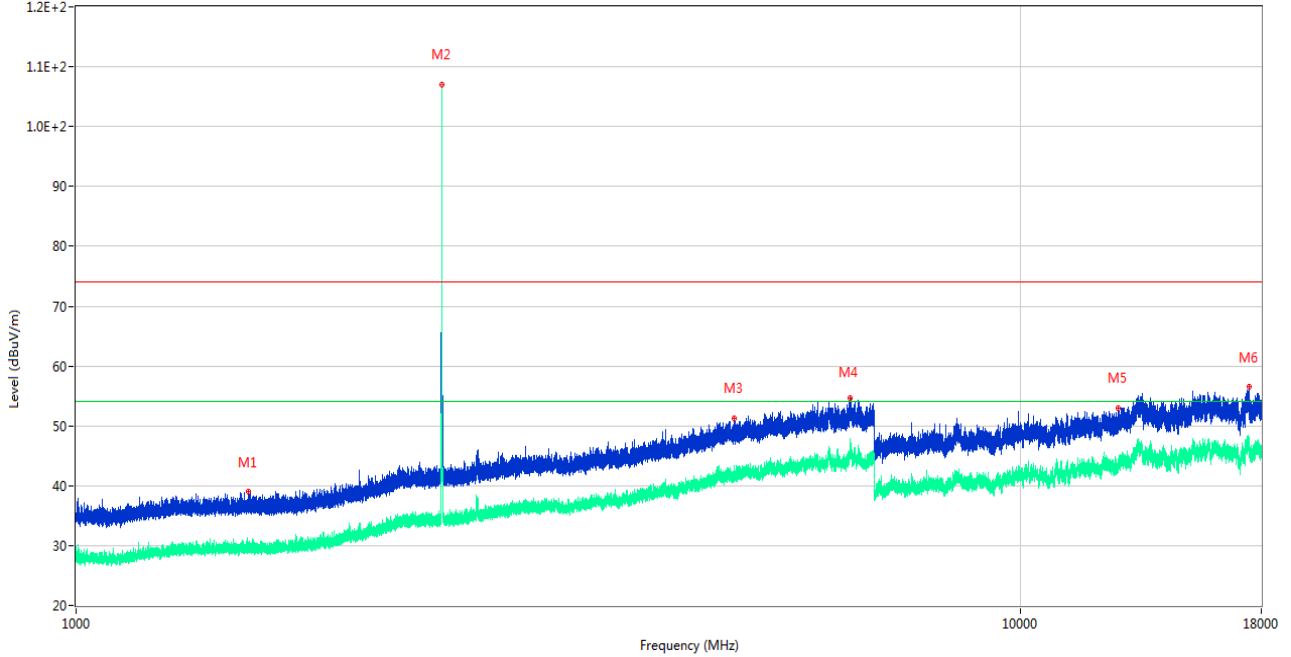
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.400	41.47	-17.70	74.0	32.53	Peak	130.00	400	Vertical	Pass
1**	1328.400	31.11	-17.70	54.0	22.89	AV	130.00	400	Vertical	Pass
2	2403.800	94.94	-12.22	74.0	-20.94	Peak	60.00	150	Vertical	N/A
2**	2403.800	94.15	-12.22	54.0	-40.15	AV	60.00	150	Vertical	N/A
3	5019.200	52.13	-3.03	74.0	21.87	Peak	188.00	150	Vertical	Pass
3**	5019.200	41.66	-3.03	54.0	12.34	AV	188.00	150	Vertical	Pass
4	6683.000	54.96	0.13	74.0	19.04	Peak	157.00	200	Vertical	Pass
4**	6683.000	45.72	0.13	54.0	8.28	AV	157.00	200	Vertical	Pass
5	12832.425	53.10	1.19	74.0	20.90	Peak	235.00	300	Vertical	Pass
5**	12832.425	44.40	1.19	54.0	9.60	AV	235.00	300	Vertical	Pass
6	17337.448	56.38	1.47	74.0	17.62	Peak	34.00	100	Vertical	Pass
6**	17337.448	47.28	1.47	54.0	6.72	AV	34.00	100	Vertical	Pass

GFSK (BLE 2Mbps) MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

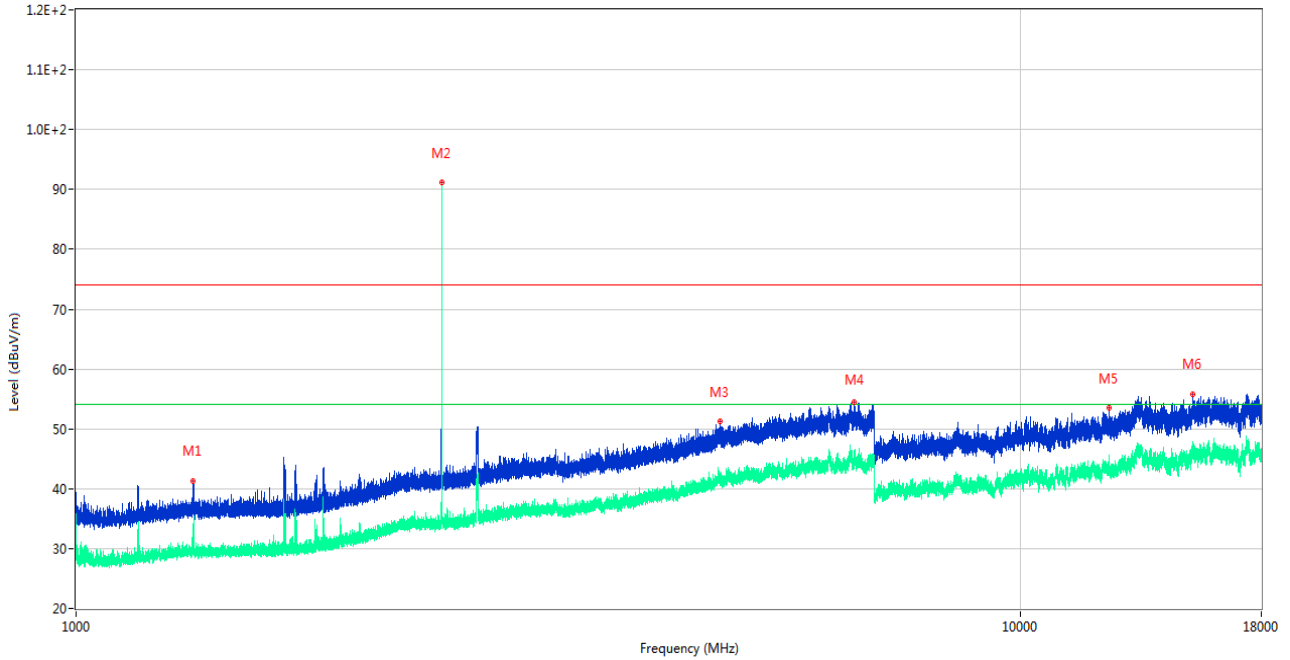
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1522.600	38.99	-17.38	74.0	35.01	Peak	100.00	100	Horizontal	Pass
1**	1522.600	29.49	-17.38	54.0	24.51	AV	100.00	100	Horizontal	Pass
2	2440.200	107.07	-12.41	74.0	-33.07	Peak	216.00	200	Horizontal	N/A
2**	2440.200	106.80	-12.41	54.0	-52.80	AV	216.00	200	Horizontal	N/A
3	4978.200	51.30	-2.78	74.0	22.70	Peak	266.00	200	Horizontal	Pass
3**	4978.200	42.31	-2.78	54.0	11.69	AV	266.00	200	Horizontal	Pass
4	6608.200	54.70	1.56	74.0	19.30	Peak	184.00	200	Horizontal	Pass
4**	6608.200	45.90	1.56	54.0	8.10	AV	184.00	200	Horizontal	Pass
5	12698.250	53.04	0.84	74.0	20.96	Peak	91.00	200	Horizontal	Pass
5**	12698.250	42.88	0.84	54.0	11.12	AV	91.00	200	Horizontal	Pass
6	17461.613	56.48	2.85	74.0	17.52	Peak	106.00	300	Horizontal	Pass
6**	17461.613	46.84	2.85	54.0	7.16	AV	106.00	300	Horizontal	Pass

GFSK (BLE 2Mbps) MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

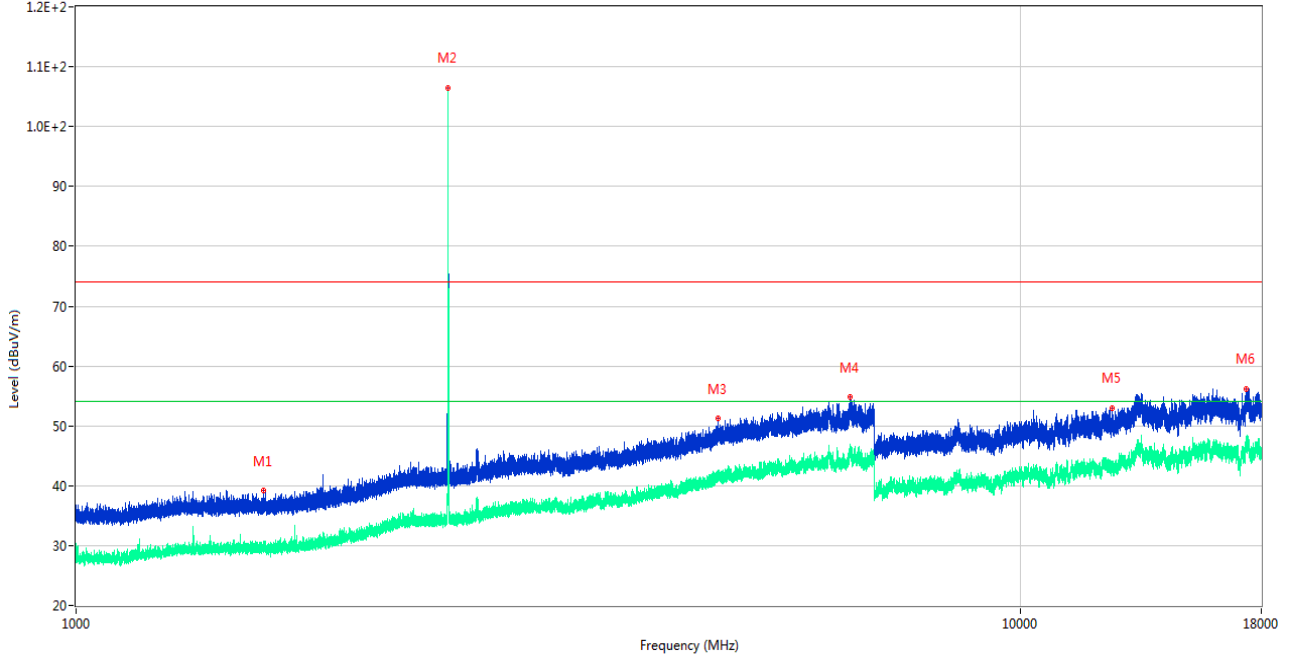
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.500	41.37	-17.58	74.0	32.63	Peak	83.00	300	Vertical	Pass
1**	1329.500	29.44	-17.58	54.0	24.56	AV	83.00	300	Vertical	Pass
2	2439.900	91.15	-12.40	74.0	-17.15	Peak	113.00	200	Vertical	N/A
2**	2439.900	90.97	-12.40	54.0	-36.97	AV	113.00	200	Vertical	N/A
3	4805.200	51.24	-3.19	74.0	22.76	Peak	141.00	200	Vertical	Pass
3**	4805.200	41.45	-3.19	54.0	12.55	AV	141.00	200	Vertical	Pass
4	6672.600	54.47	0.17	74.0	19.53	Peak	334.00	400	Vertical	Pass
4**	6672.600	45.15	0.17	54.0	8.85	AV	334.00	400	Vertical	Pass
5	12416.787	53.45	1.41	74.0	20.55	Peak	335.00	100	Vertical	Pass
5**	12416.787	43.20	1.41	54.0	10.80	AV	335.00	100	Vertical	Pass
6	15240.863	55.82	0.94	74.0	18.18	Peak	308.00	400	Vertical	Pass
6**	15240.863	46.53	0.94	54.0	7.47	AV	308.00	400	Vertical	Pass

GFSK (BLE 2Mbps) HIGH CHANNEL 1 GHz to 18 GHz, ANT H

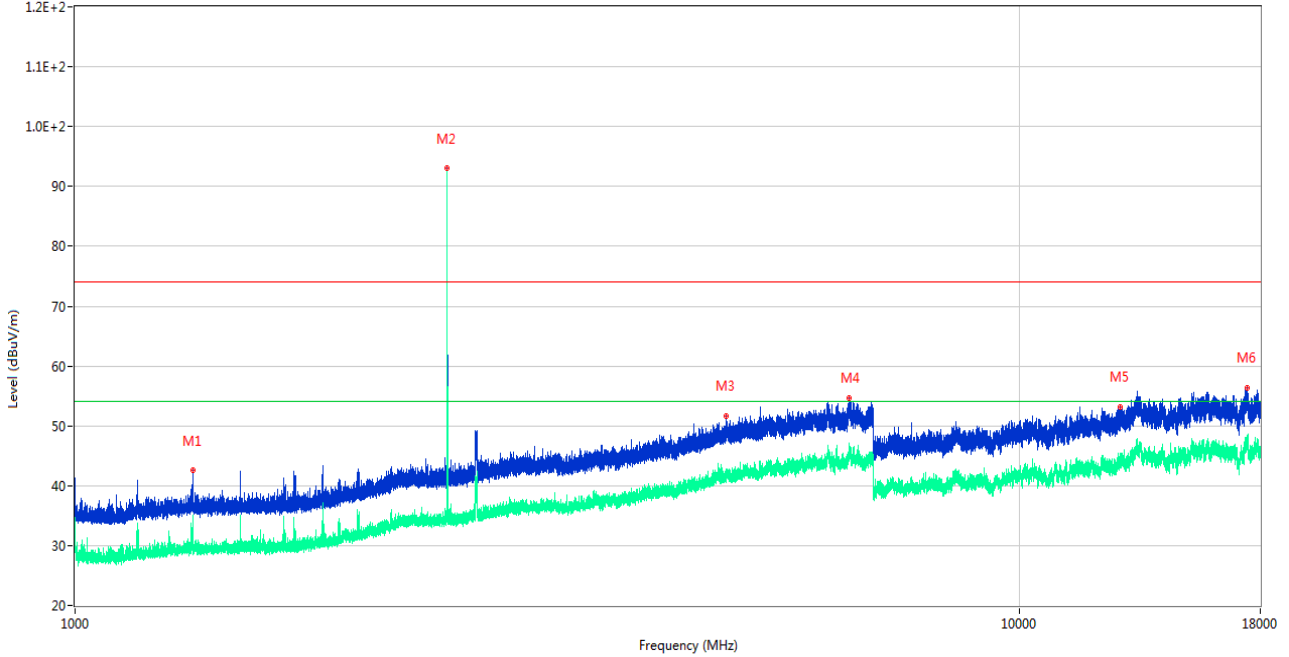
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1578.200	39.19	-17.46	74.0	34.81	Peak	260.00	100	Horizontal	Pass
1**	1578.200	29.29	-17.46	54.0	24.71	AV	260.00	100	Horizontal	Pass
2	2477.800	106.44	-12.09	74.0	-32.44	Peak	215.00	150	Horizontal	N/A
2**	2477.800	105.27	-12.09	54.0	-51.27	AV	215.00	150	Horizontal	N/A
3	4789.800	51.18	-2.36	74.0	22.82	Peak	78.00	100	Horizontal	Pass
3**	4789.800	41.79	-2.36	54.0	12.21	AV	78.00	100	Horizontal	Pass
4	6609.200	54.77	1.58	74.0	19.23	Peak	360.00	200	Horizontal	Pass
4**	6609.200	45.82	1.58	54.0	8.18	AV	360.00	200	Horizontal	Pass
5	12516.838	52.97	1.51	74.0	21.03	Peak	108.00	300	Horizontal	Pass
5**	12516.838	42.53	1.51	54.0	11.47	AV	108.00	300	Horizontal	Pass
6	17356.614	56.17	2.13	74.0	17.83	Peak	125.00	400	Horizontal	Pass
6**	17356.614	46.48	2.13	54.0	7.52	AV	125.00	400	Horizontal	Pass

GFSK (BLE 2Mbps) HIGH CHANNEL 1 GHz to 18 GHz, ANT V

RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.100	42.56	-17.51	74.0	31.44	Peak	27.00	400	Vertical	Pass
1**	1332.100	35.08	-17.51	54.0	18.92	AV	27.00	400	Vertical	Pass
2	2477.800	92.98	-12.09	74.0	-18.98	Peak	126.00	200	Vertical	N/A
2**	2477.800	92.33	-12.09	54.0	-38.33	AV	126.00	200	Vertical	N/A
3	4892.200	51.63	-3.02	74.0	22.37	Peak	27.00	200	Vertical	Pass
3**	4892.200	41.81	-3.02	54.0	12.19	AV	27.00	200	Vertical	Pass
4	6609.400	54.63	1.57	74.0	19.37	Peak	201.00	100	Vertical	Pass
4**	6609.400	46.68	1.57	54.0	7.32	AV	201.00	100	Vertical	Pass
5	12787.013	53.17	1.22	74.0	20.83	Peak	326.00	400	Vertical	Pass
5**	12787.013	43.72	1.22	54.0	10.28	AV	326.00	400	Vertical	Pass
6	17423.813	56.44	3.65	74.0	17.56	Peak	49.00	400	Vertical	Pass
6**	17423.813	47.03	3.65	54.0	6.97	AV	49.00	400	Vertical	Pass

A.7 Band Edge (Restricted-band band-edge)

Note ¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

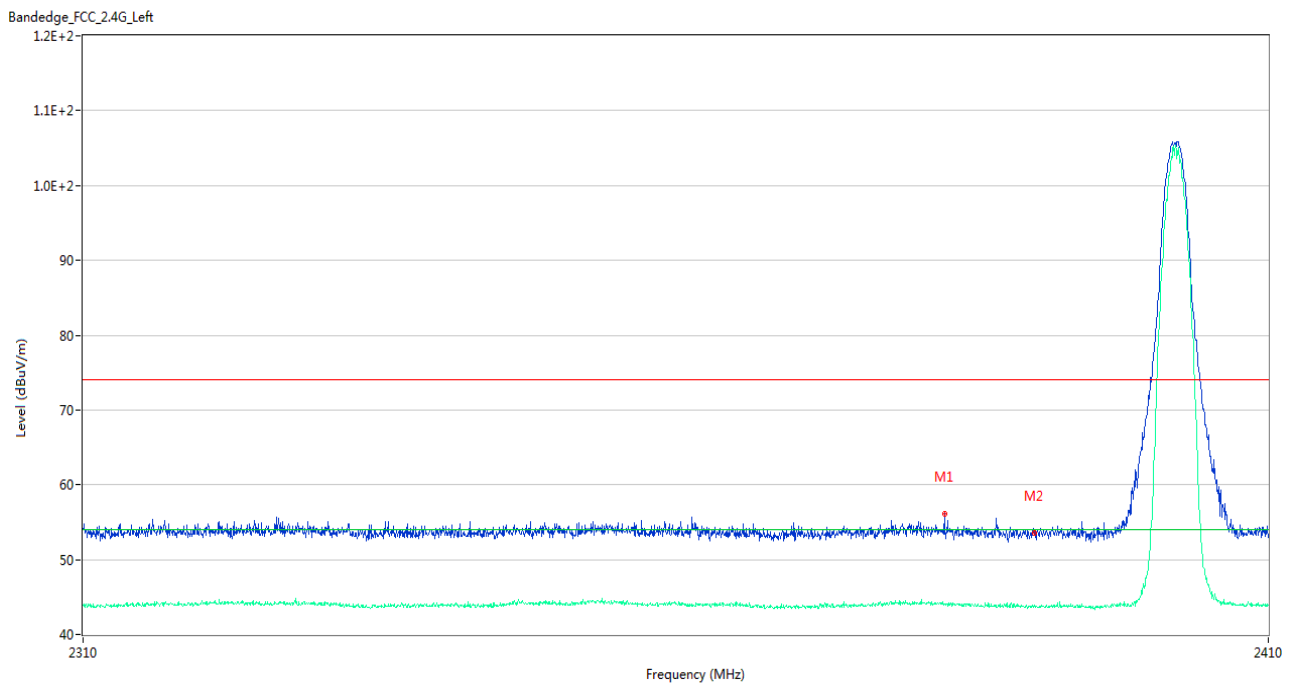
Note ²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note ³: According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note ⁴: The Level (dBuV/m) has been corrected by factor.

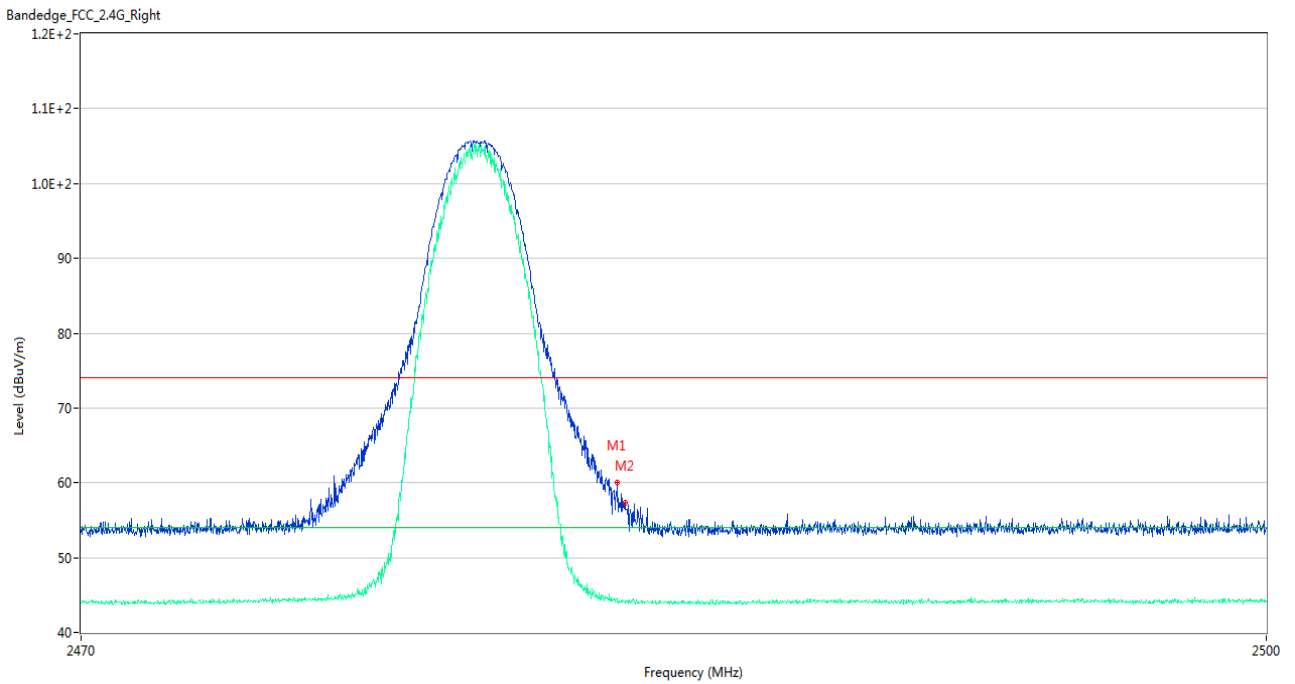
Test Data and Plots

GFSK (BLE 1Mbps) LOW CHANNEL



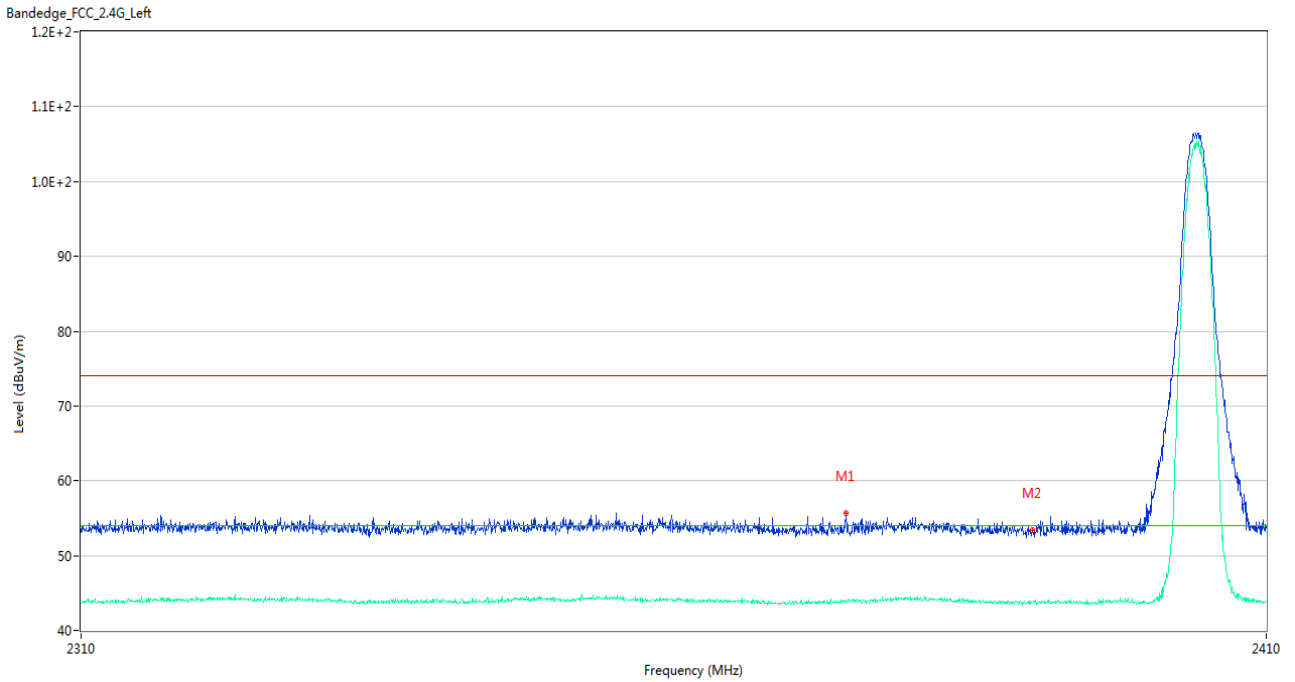
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2382.250	56.09	-0.61	74.0	17.91	Peak	357.00	100	Horizontal	Pass
1**	2382.250	44.10	-0.61	54.0	9.90	AV	357.00	100	Horizontal	Pass
2	2389.950	53.56	-0.59	74.0	20.44	Peak	52.00	200	Horizontal	Pass
2**	2389.950	43.72	-0.59	54.0	10.28	AV	52.00	200	Horizontal	Pass

GFSK (BLE 1Mbps) HIGH CHANNEL



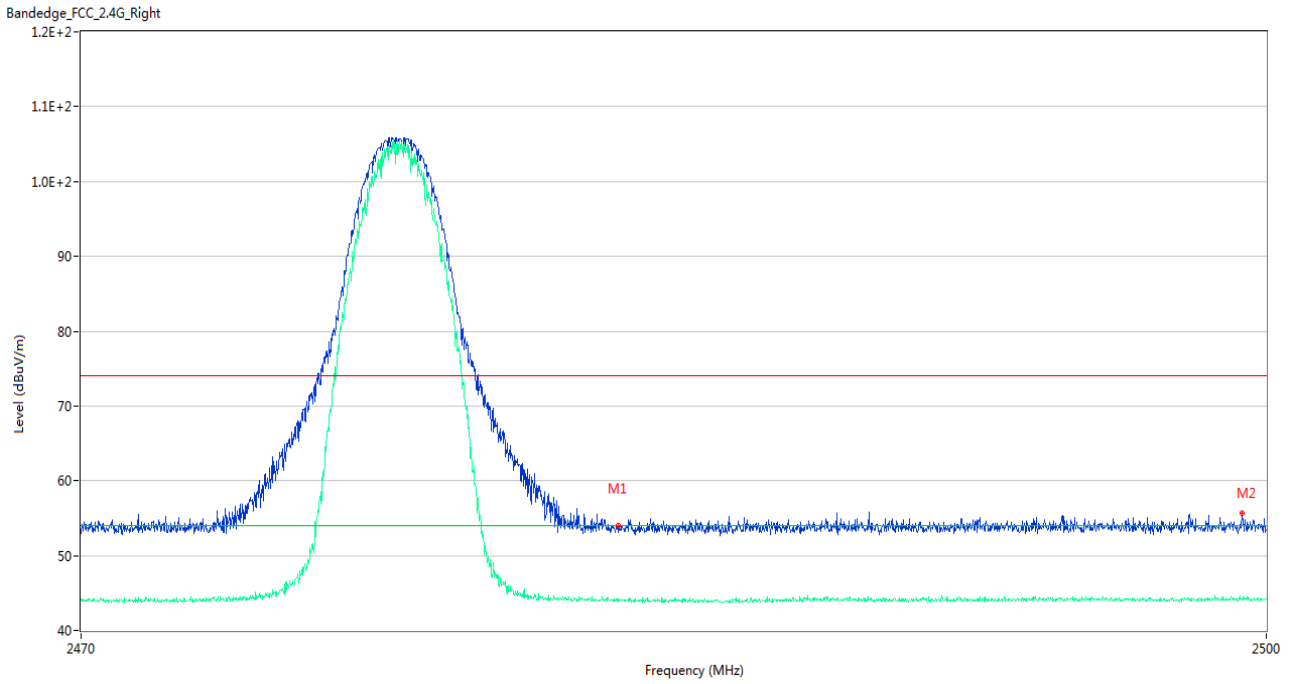
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.530	59.97	-0.05	74.0	14.03	Peak	214.00	150	Horizontal	Pass
1**	2483.530	44.00	-0.05	54.0	10.00	AV	214.00	150	Horizontal	Pass
2	2483.725	57.26	-0.07	74.0	16.74	Peak	223.00	200	Horizontal	Pass
2**	2483.725	43.94	-0.07	54.0	10.06	AV	223.00	200	Horizontal	Pass

GFSK (BLE 2Mbps) LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2374.050	55.66	-0.62	74.0	18.34	Peak	331.00	200	Horizontal	Pass
1**	2374.050	43.90	-0.62	54.0	10.10	AV	331.00	200	Horizontal	Pass
2	2389.950	53.38	-0.59	74.0	20.62	Peak	74.00	100	Horizontal	Pass
2**	2389.950	43.73	-0.59	54.0	10.27	AV	74.00	100	Horizontal	Pass

GFSK (BLE 2Mbps) HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.560	53.99	-0.06	74.0	20.01	Peak	173.00	200	Horizontal	Pass
1**	2483.560	44.23	-0.06	54.0	9.77	AV	173.00	200	Horizontal	Pass
2	2499.385	55.68	-0.15	74.0	18.32	Peak	220.00	200	Horizontal	Pass
2**	2499.385	44.04	-0.15	54.0	9.96	AV	220.00	200	Horizontal	Pass

A.8 Power Spectral Density (PSD)

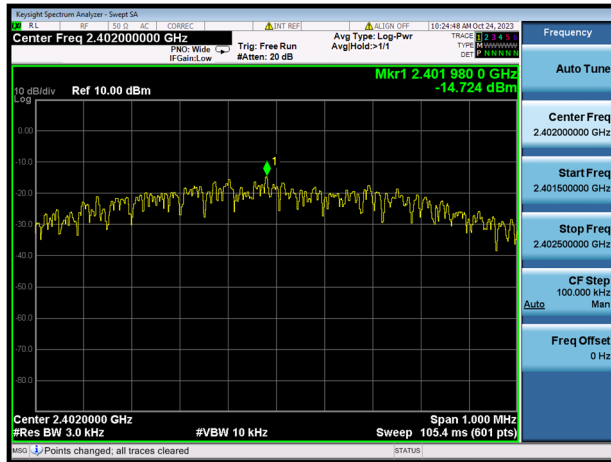
Test Data

GFSK (BLE 1Mbps)			
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low Channel	-14.72	8	Pass
Middle Channel	-14.82	8	Pass
High Channel	-14.98	8	Pass

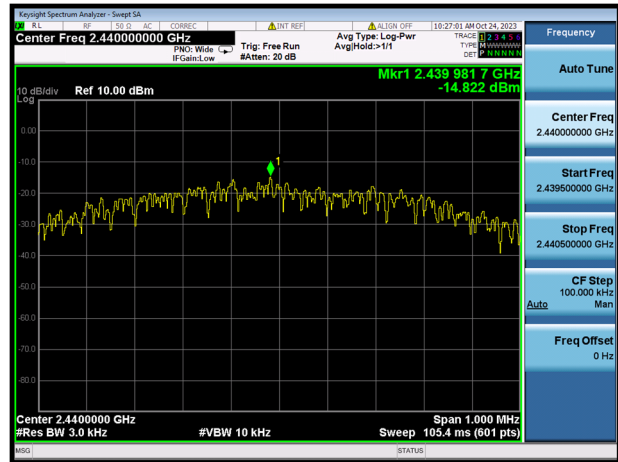
GFSK (BLE 2Mbps)			
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low Channel	-18.19	8	Pass
Middle Channel	-18.37	8	Pass
High Channel	-18.38	8	Pass

Test Plots

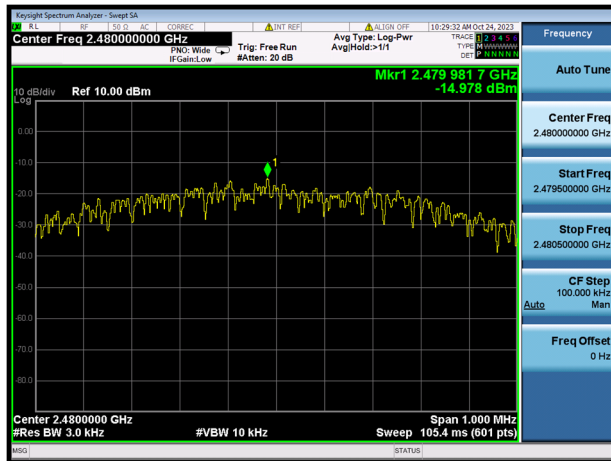
GFSK (BLE 1Mbps) LOW CHANNEL



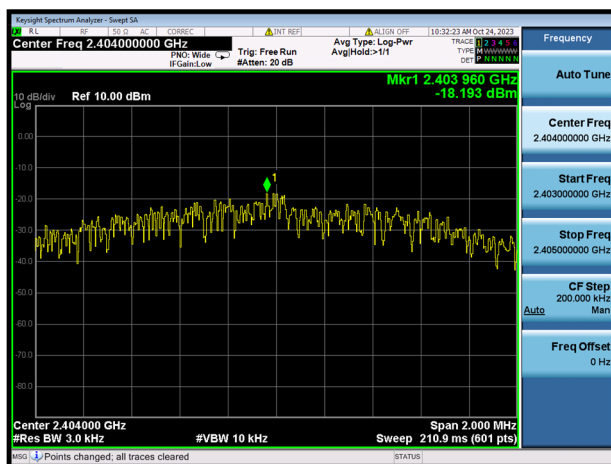
GFSK (BLE 1Mbps) MIDDLE CHANNEL



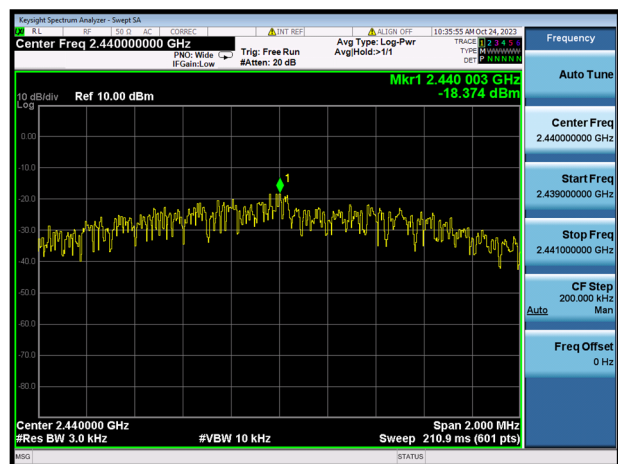
GFSK (BLE 1Mbps) HIGH CHANNEL



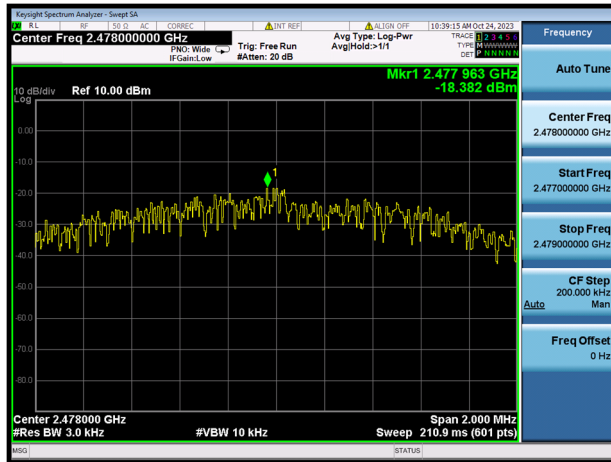
GFSK (BLE 2Mbps) LOW CHANNEL



GFSK (BLE 2Mbps) MIDDLE CHANNEL



GFSK (BLE 2Mbps) HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ23A0975-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ23A0975-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ23A0975-AI.PDF”.

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--END OF REPORT--