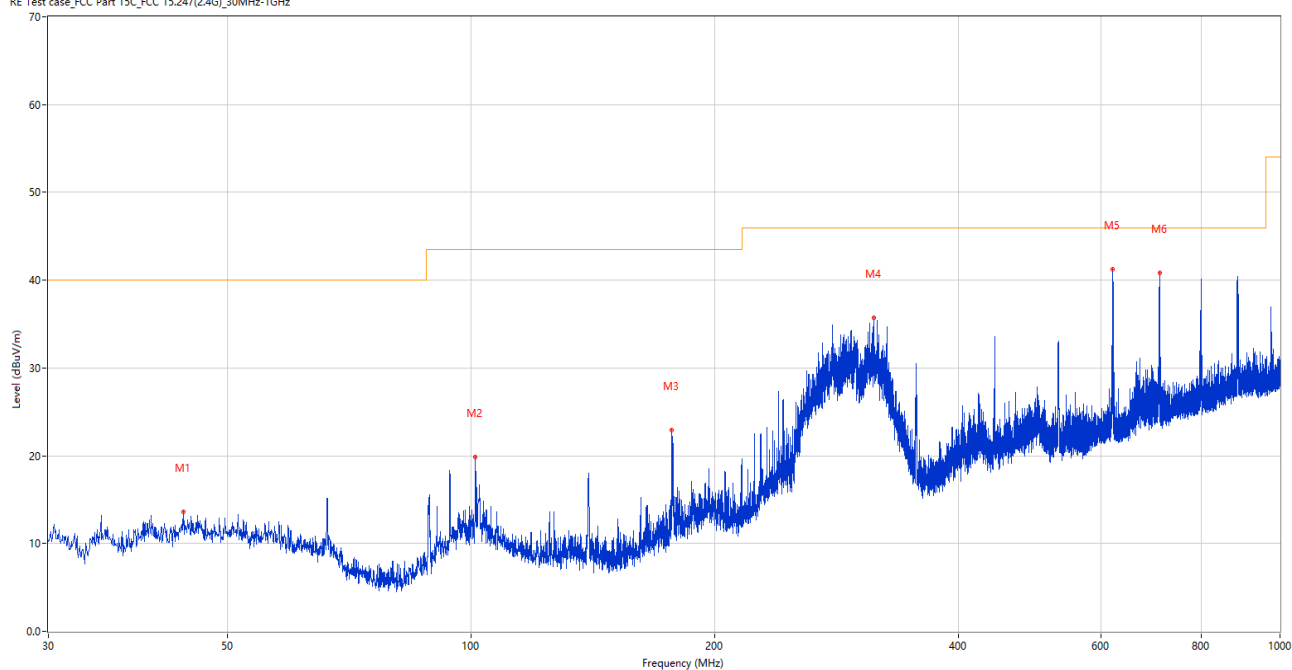


30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz

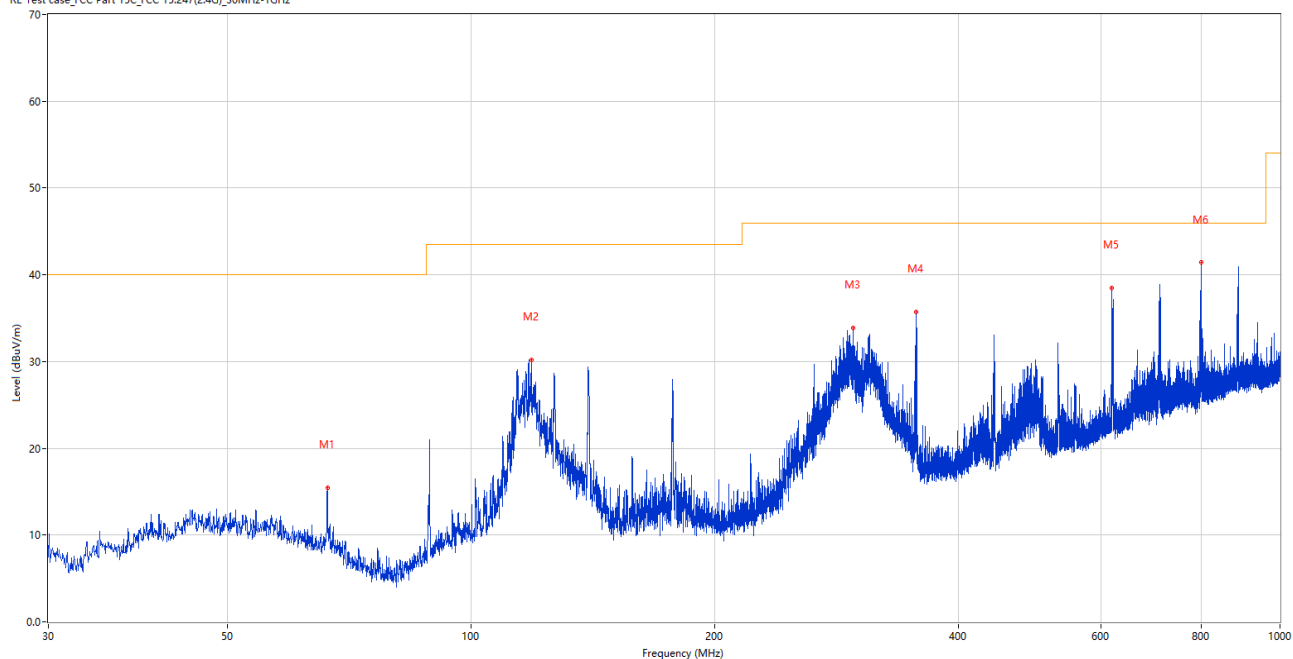


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	44.114	13.59	-24.88	40.0	26.41	Peak	359.00	100	Vertical	Pass
2	101.198	19.84	-26.10	43.5	23.66	Peak	309.00	100	Vertical	Pass
3	177.100	22.97	-28.10	43.5	20.53	Peak	0.00	100	Vertical	Pass
4	314.355	35.77	-23.01	46.0	10.23	Peak	117.00	200	Vertical	Pass
5	621.263	41.25	-14.50	46.0	4.75	Peak	252.00	200	Vertical	Pass
6	710.891	40.86	-13.56	46.0	5.14	Peak	15.00	200	Vertical	Pass

Antenna type: PCB, Gain: 0.8 dBi

30 MHz to 1 GHz, ANT H

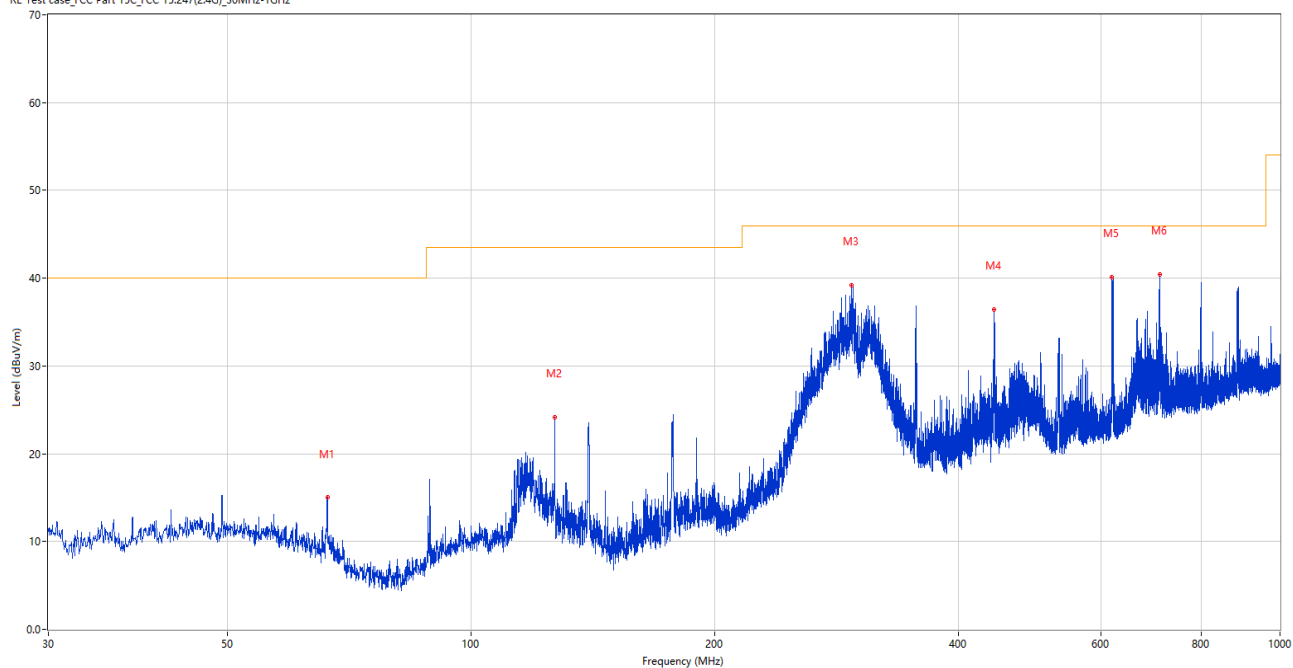
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	66.375	15.46	-27.80	40.0	24.54	Peak	114.00	200	Horizontal	Pass
2	118.609	30.23	-28.00	43.5	13.27	Peak	29.00	100	Horizontal	Pass
3	296.847	33.93	-23.20	46.0	12.07	Peak	174.00	200	Horizontal	Pass
4	354.805	35.76	-21.67	46.0	10.24	Peak	126.00	200	Horizontal	Pass
5	619.518	38.50	-14.53	46.0	7.50	Peak	212.00	100	Horizontal	Pass
6	799.889	41.40	-11.67	46.0	4.60	Peak	127.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz

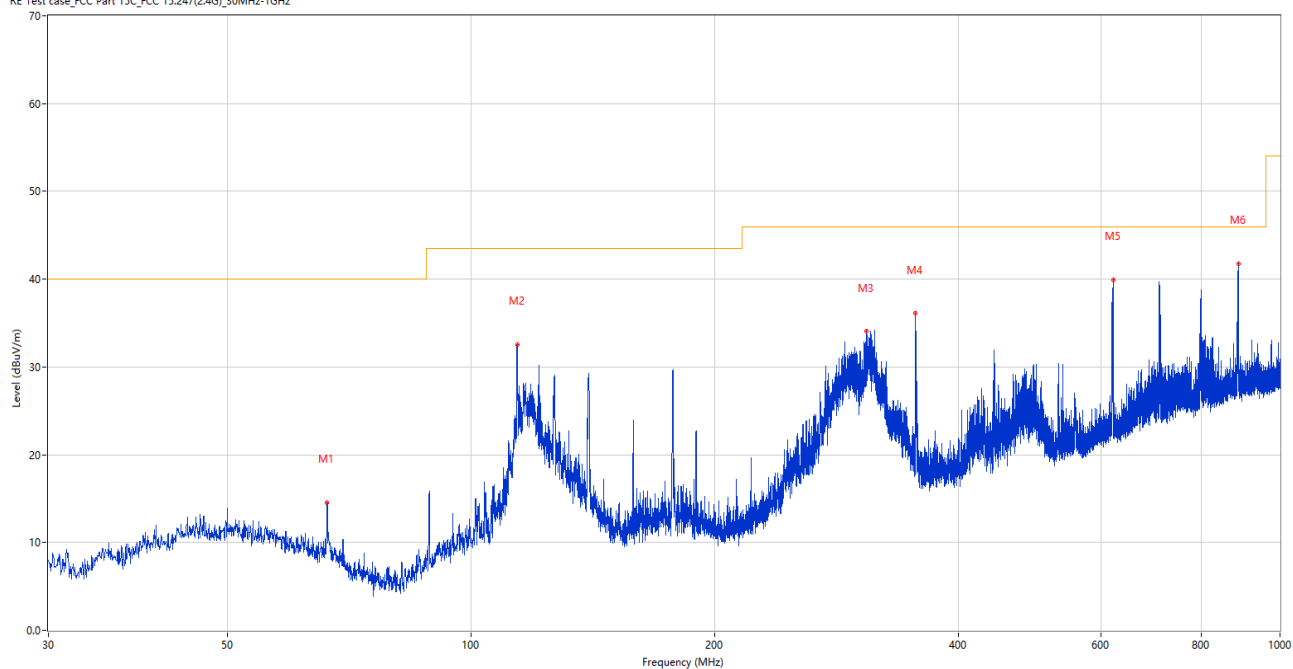


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	66.375	15.00	-27.80	40.0	25.00	Peak	58.00	200	Vertical	Pass
2	126.806	24.19	-28.85	43.5	19.31	Peak	360.00	200	Vertical	Pass
3	294.956	39.19	-23.23	46.0	6.81	Peak	112.00	200	Vertical	Pass
4	443.317	36.47	-19.59	46.0	9.53	Peak	119.00	200	Vertical	Pass
5	619.615	40.16	-14.51	46.0	5.84	Peak	258.00	200	Vertical	Pass
6	710.989	40.44	-13.57	46.0	5.56	Peak	119.00	200	Vertical	Pass

Antenna type: Ceramics, Gain: 1.05 dBi

30 MHz to 1 GHz, ANT H

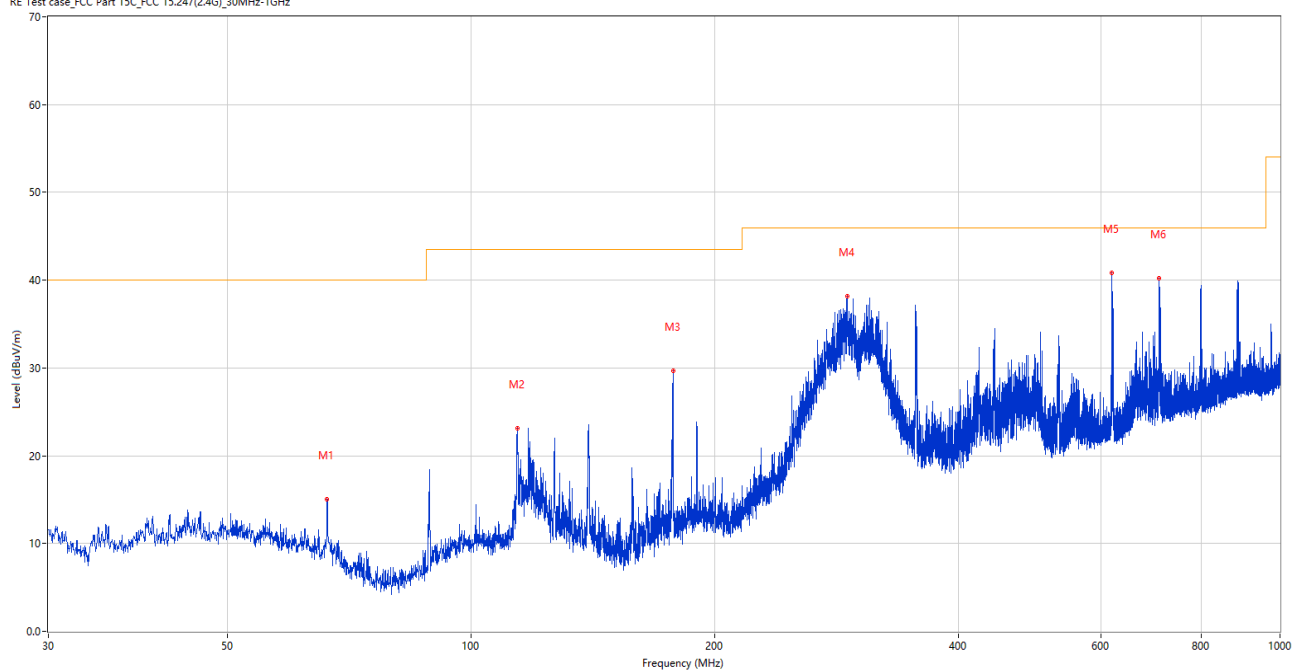
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	66.326	14.55	-27.78	40.0	25.45	Peak	358.00	100	Horizontal	Pass
2	113.953	32.51	-27.13	43.5	10.99	Peak	32.00	200	Horizontal	Pass
3	308.390	34.07	-23.22	46.0	11.93	Peak	360.00	200	Horizontal	Pass
4	354.029	36.08	-21.65	46.0	9.92	Peak	45.00	100	Horizontal	Pass
5	621.991	39.92	-14.46	46.0	6.08	Peak	247.00	100	Horizontal	Pass
6	888.547	41.75	-9.71	46.0	4.25	Peak	123.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



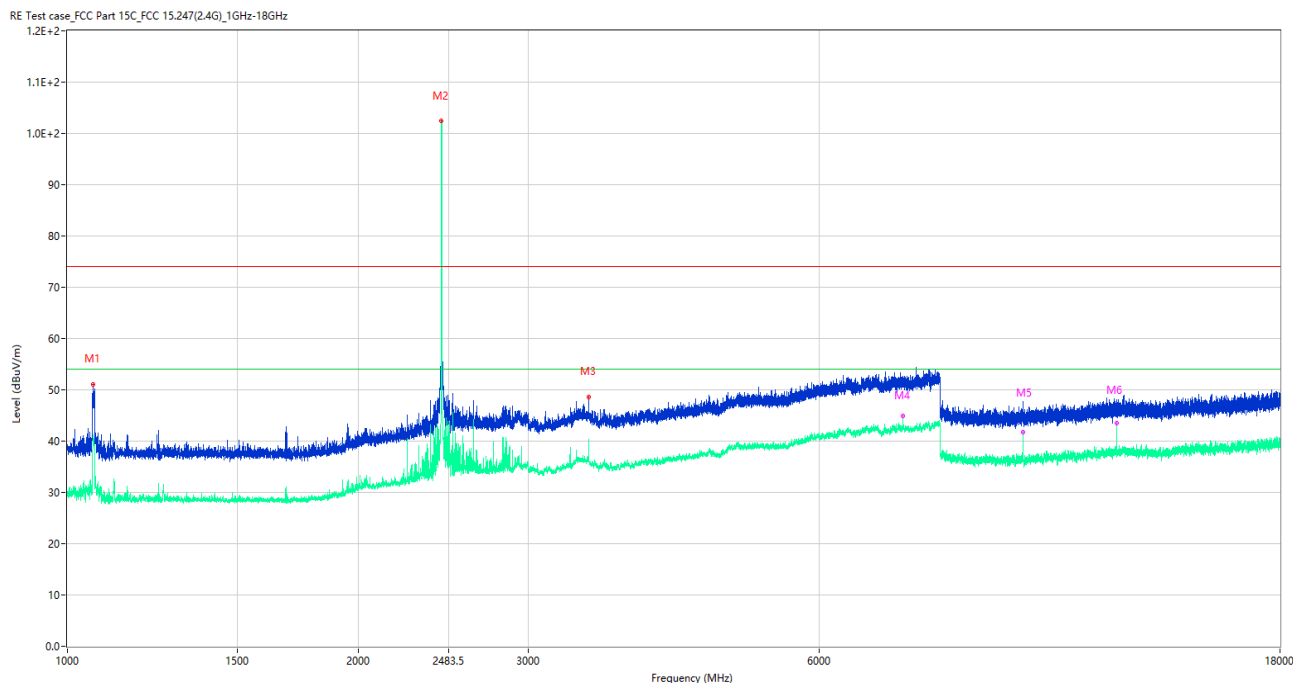
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	66.326	15.08	-27.78	40.0	24.92	Peak	360.00	200	Vertical	Pass
2	114.099	23.16	-27.14	43.5	20.34	Peak	113.00	200	Vertical	Pass
3	177.585	29.68	-28.05	43.5	13.82	Peak	253.00	200	Vertical	Pass
4	291.512	38.18	-23.20	46.0	7.82	Peak	101.00	200	Vertical	Pass
5	619.518	40.87	-14.53	46.0	5.13	Peak	132.00	100	Vertical	Pass
6	708.466	40.22	-13.64	46.0	5.78	Peak	46.00	200	Vertical	Pass

Note 1: The marked 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.

Antenna type: PCB, Gain: 2.2 dBi

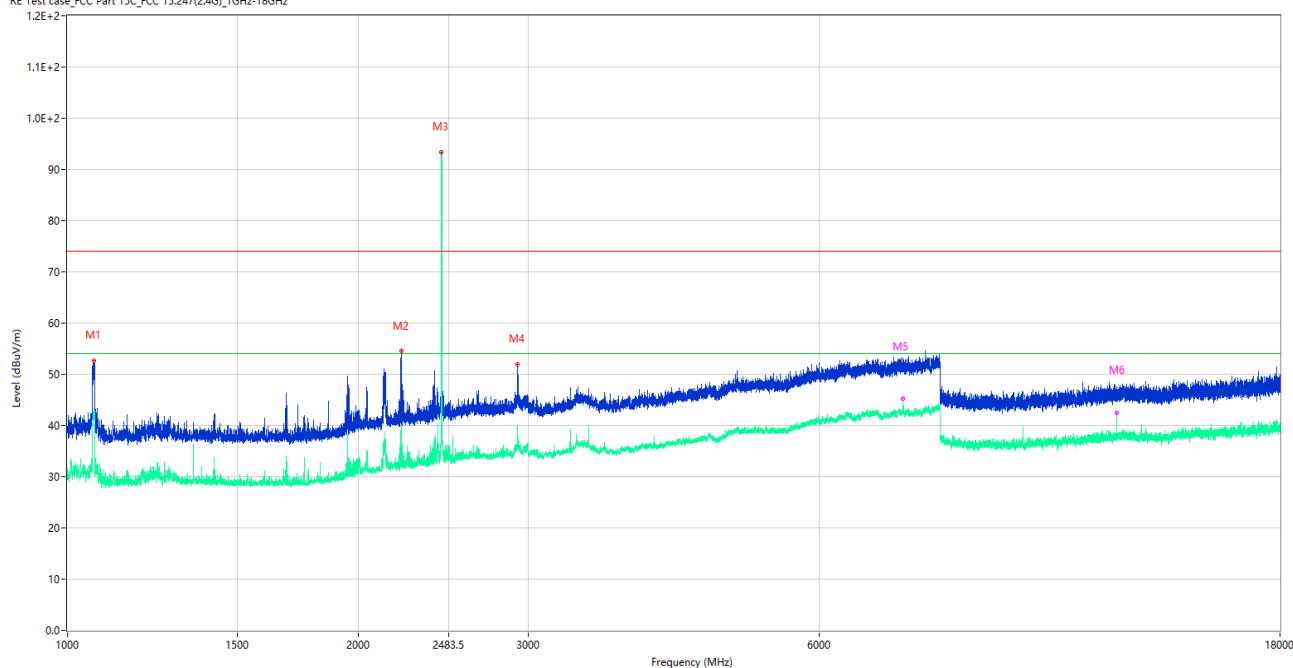
GFSK (BLE 1Mbps) MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1063.250	51.10	-15.23	74.0	22.90	Peak	117.00	150	Horizontal	Pass
1**	1063.250	39.96	-15.23	54.0	14.04	AV	117.00	150	Horizontal	Pass
2	2440.000	102.43	-12.37	74.0	-28.43	Peak	5.00	150	Horizontal	N/A
2**	2440.000	101.64	-12.37	54.0	-47.64	AV	5.00	150	Horizontal	N/A
3	3465.000	48.64	-5.10	74.0	25.36	Peak	357.00	150	Horizontal	Pass
3**	3465.000	39.34	-5.10	54.0	14.66	AV	357.00	150	Horizontal	Pass
4	7320.500	51.35	0.72	74.0	22.65	Peak	138.00	150	Horizontal	Pass
4**	7320.500	44.98	0.72	54.0	9.02	AV	138.00	150	Horizontal	Pass
5	9760.500	47.67	-3.63	74.0	26.33	Peak	204.00	150	Horizontal	Pass
5**	9760.500	41.83	-3.63	54.0	12.17	AV	204.00	150	Horizontal	Pass
6	12200.500	48.01	-2.77	74.0	25.99	Peak	9.00	150	Horizontal	Pass
6**	12200.500	43.56	-2.77	54.0	10.44	AV	9.00	150	Horizontal	Pass

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

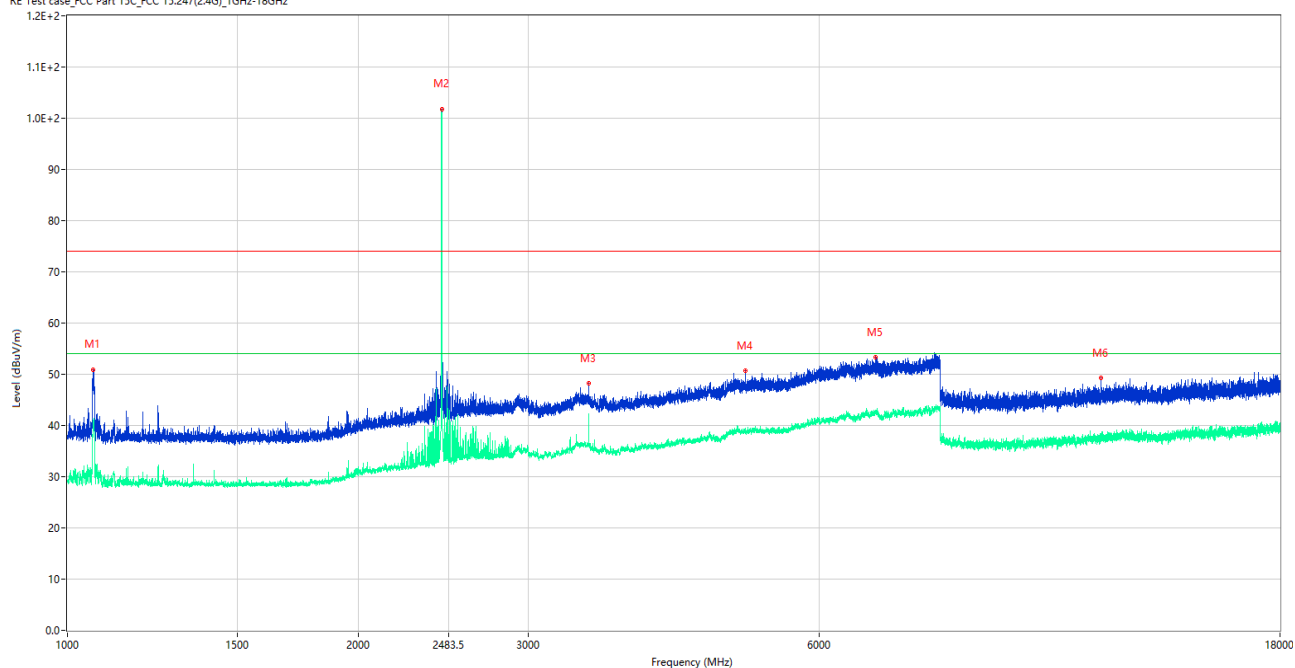
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1066.250	52.65	-15.14	74.0	21.35	Peak	141.00	150	Vertical	Pass
1**	1066.250	42.35	-15.14	54.0	11.65	AV	141.00	150	Vertical	Pass
2	2218.750	54.53	-13.08	74.0	19.47	Peak	114.00	150	Vertical	Pass
2**	2218.750	39.21	-13.08	54.0	14.79	AV	114.00	150	Vertical	Pass
3	2440.000	93.42	-12.37	74.0	-19.42	Peak	136.00	150	Vertical	N/A
3**	2440.000	92.61	-12.37	54.0	-38.61	AV	136.00	150	Vertical	N/A
4	2925.750	51.95	-8.16	74.0	22.05	Peak	77.00	150	Vertical	Pass
4**	2925.750	36.21	-8.16	54.0	17.79	AV	77.00	150	Vertical	Pass
5	7320.500	52.42	0.72	74.0	21.58	Peak	290.00	150	Vertical	Pass
5**	7320.500	45.26	0.72	54.0	8.74	AV	290.00	150	Vertical	Pass
6	12200.500	46.73	-2.77	74.0	27.27	Peak	0.00	150	Vertical	Pass
6**	12200.500	42.44	-2.77	54.0	11.56	AV	0.00	150	Vertical	Pass

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

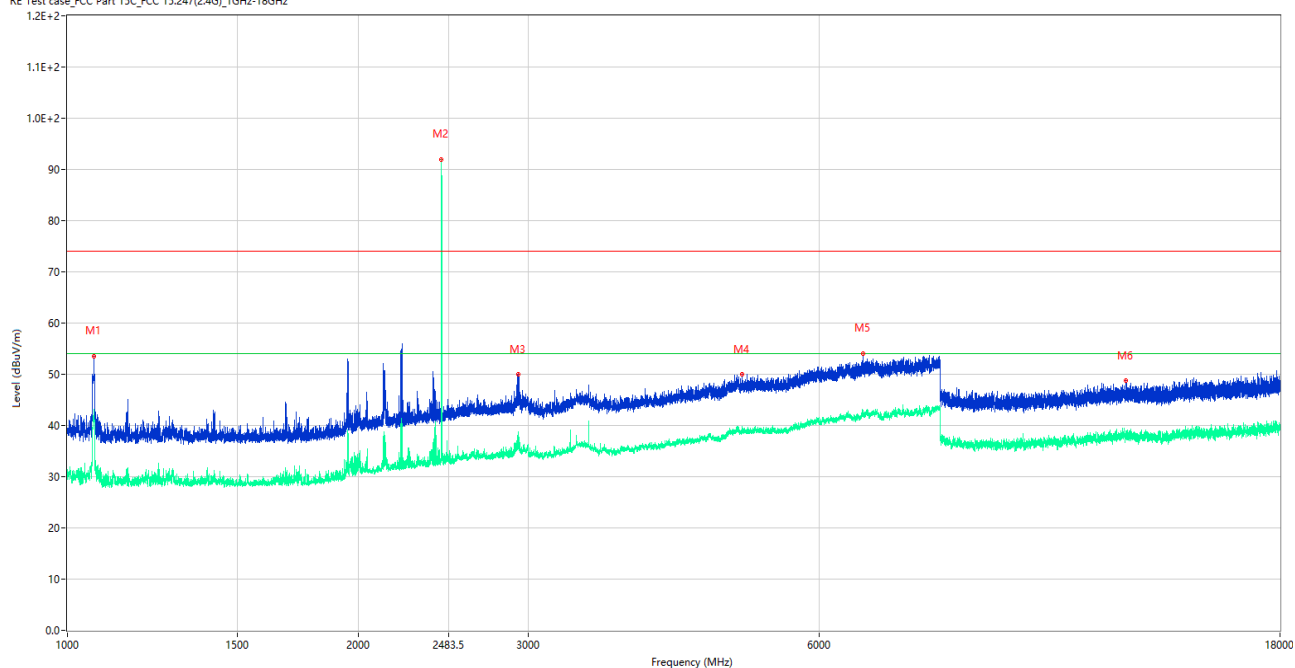
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1064.000	50.89	-15.22	74.0	23.11	Peak	158.00	150	Horizontal	Pass
1**	1064.000	40.90	-15.22	54.0	13.10	AV	158.00	150	Horizontal	Pass
2	2440.250	101.76	-12.37	74.0	-27.76	Peak	0.00	150	Horizontal	N/A
2**	2440.250	100.66	-12.37	54.0	-46.66	AV	0.00	150	Horizontal	N/A
3	3465.000	48.23	-5.10	74.0	25.77	Peak	292.00	150	Horizontal	Pass
3**	3465.000	40.84	-5.10	54.0	13.16	AV	292.00	150	Horizontal	Pass
4	5036.500	50.62	-2.28	74.0	23.38	Peak	33.00	150	Horizontal	Pass
4**	5036.500	38.75	-2.28	54.0	15.25	AV	33.00	150	Horizontal	Pass
5	6868.500	53.31	0.90	74.0	20.69	Peak	43.00	150	Horizontal	Pass
5**	6868.500	42.97	0.90	54.0	11.03	AV	43.00	150	Horizontal	Pass
6	11751.500	49.26	-3.09	74.0	24.74	Peak	242.00	150	Horizontal	Pass
6**	11751.500	37.50	-3.09	54.0	16.50	AV	242.00	150	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

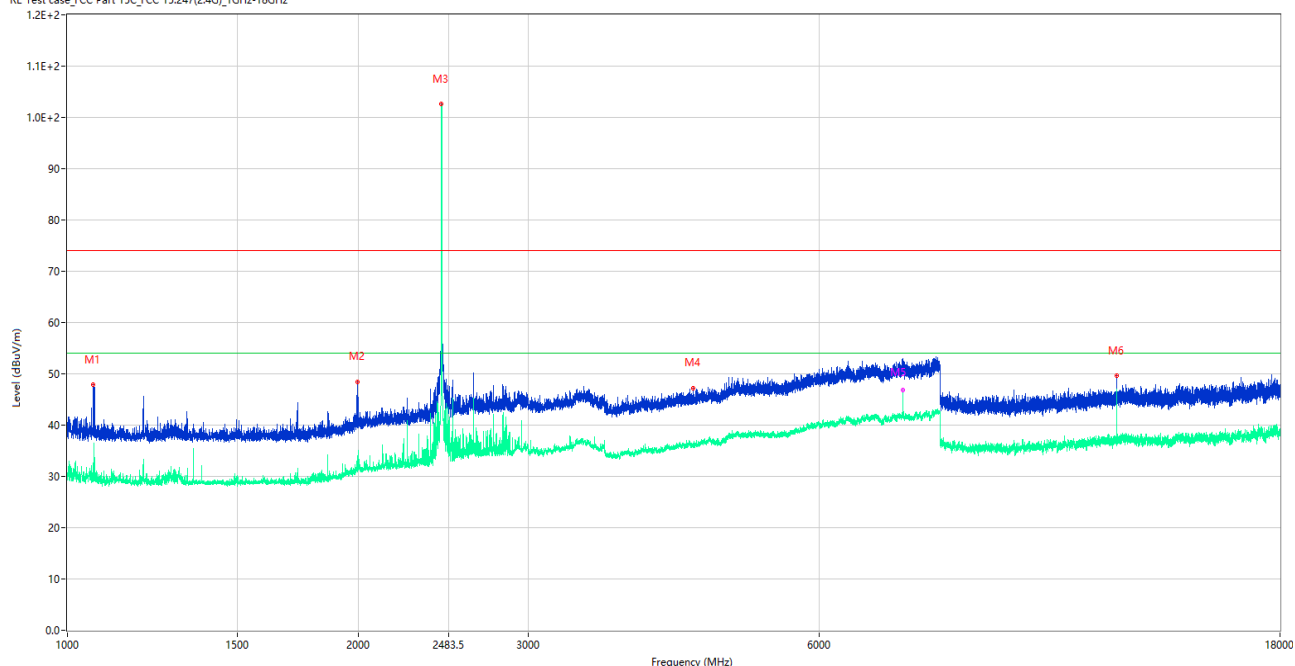


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1065.250	53.54	-15.17	74.0	20.46	Peak	127.00	150	Vertical	Pass
1**	1065.250	42.47	-15.17	54.0	11.53	AV	127.00	150	Vertical	Pass
2	2439.750	92.02	-12.37	74.0	-18.02	Peak	103.00	150	Vertical	N/A
2**	2439.750	91.21	-12.37	54.0	-37.21	AV	103.00	150	Vertical	N/A
3	2927.000	49.98	-8.10	74.0	24.02	Peak	84.00	150	Vertical	Pass
3**	2927.000	36.33	-8.10	54.0	17.67	AV	84.00	150	Vertical	Pass
4	4994.000	49.99	-2.25	74.0	24.01	Peak	326.00	150	Vertical	Pass
4**	4994.000	39.15	-2.25	54.0	14.85	AV	326.00	150	Vertical	Pass
5	6669.500	54.08	-0.05	74.0	19.92	Peak	119.00	150	Vertical	Pass
5**	6669.500	42.33	-0.05	54.0	11.67	AV	119.00	150	Vertical	Pass
6	12457.000	48.76	-2.33	74.0	25.24	Peak	0.00	150	Vertical	Pass
6**	12457.000	38.40	-2.33	54.0	15.60	AV	0.00	150	Vertical	Pass

Antenna type: PCB, Gain: 3.3 dBi

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

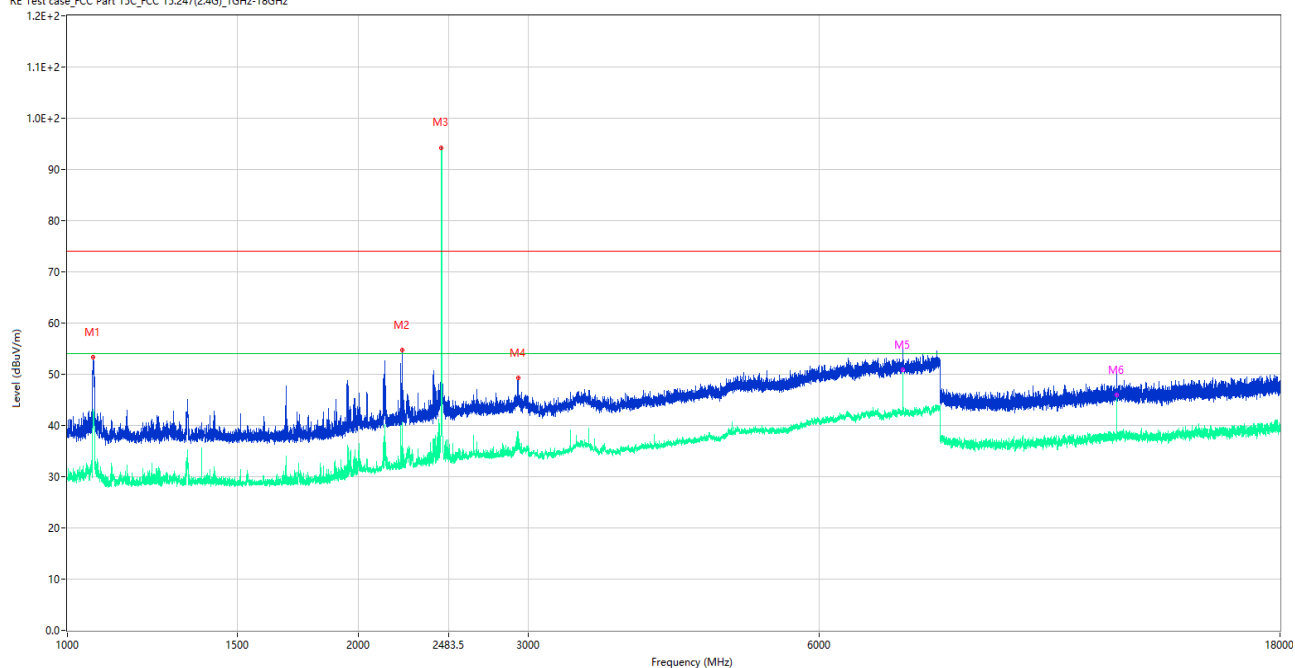
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1064.000	47.82	-15.22	74.0	26.18	Peak	144.00	150	Horizontal	Pass
1**	1064.000	28.88	-15.22	54.0	25.12	AV	144.00	150	Horizontal	Pass
2	1998.500	48.43	-14.36	74.0	25.57	Peak	80.00	150	Horizontal	Pass
2**	1998.500	31.67	-14.36	54.0	22.33	AV	80.00	150	Horizontal	Pass
3	2440.000	102.63	-12.37	74.0	-28.63	Peak	221.00	150	Horizontal	N/A
3**	2440.000	101.84	-12.37	54.0	-47.84	AV	221.00	150	Horizontal	N/A
4	4448.000	47.19	-3.69	74.0	26.81	Peak	62.00	150	Horizontal	Pass
4**	4448.000	35.84	-3.69	54.0	18.16	AV	62.00	150	Horizontal	Pass
5	7320.500	52.48	0.72	74.0	21.52	Peak	0.00	150	Horizontal	Pass
5**	7320.500	46.87	0.72	54.0	7.13	AV	0.00	150	Horizontal	Pass
6	12199.999	49.64	-2.81	74.0	24.36	Peak	178.00	150	Horizontal	Pass
6**	12199.999	44.06	-2.81	54.0	9.94	AV	178.00	150	Horizontal	Pass

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

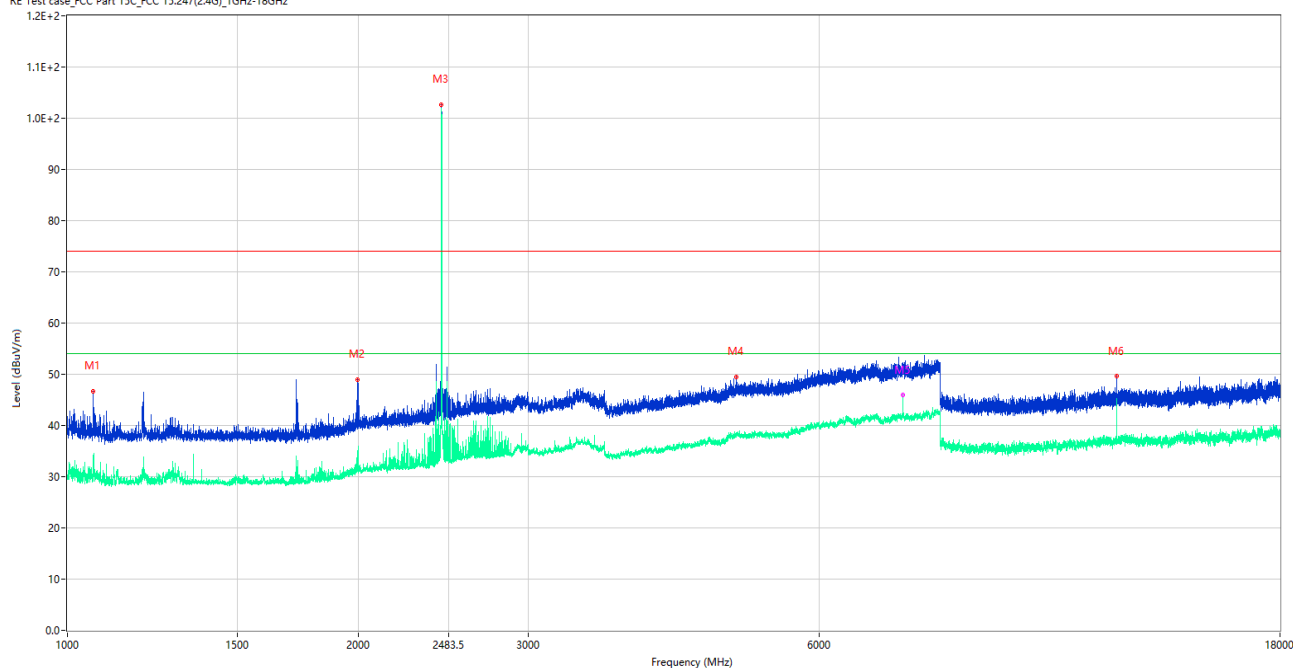
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1062.250	53.25	-15.25	74.0	20.75	Peak	129.00	150	Vertical	Pass
1**	1062.250	39.36	-15.25	54.0	14.64	AV	129.00	150	Vertical	Pass
2	2222.000	54.82	-13.05	74.0	19.18	Peak	101.00	150	Vertical	Pass
2**	2222.000	31.92	-13.05	54.0	22.08	AV	101.00	150	Vertical	Pass
3	2440.000	94.25	-12.37	74.0	-20.25	Peak	2.00	150	Vertical	N/A
3**	2440.000	93.48	-12.37	54.0	-39.48	AV	2.00	150	Vertical	N/A
4	2930.500	49.24	-7.95	74.0	24.76	Peak	75.00	150	Vertical	Pass
4**	2930.500	36.14	-7.95	54.0	17.86	AV	75.00	150	Vertical	Pass
5	7320.500	55.24	0.72	74.0	18.76	Peak	28.00	150	Vertical	Pass
5**	7320.500	50.85	0.72	54.0	3.15	AV	28.00	150	Vertical	Pass
6	12200.500	50.50	-2.77	74.0	23.50	Peak	7.00	150	Vertical	Pass
6**	12200.500	45.90	-2.77	54.0	8.10	AV	7.00	150	Vertical	Pass

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

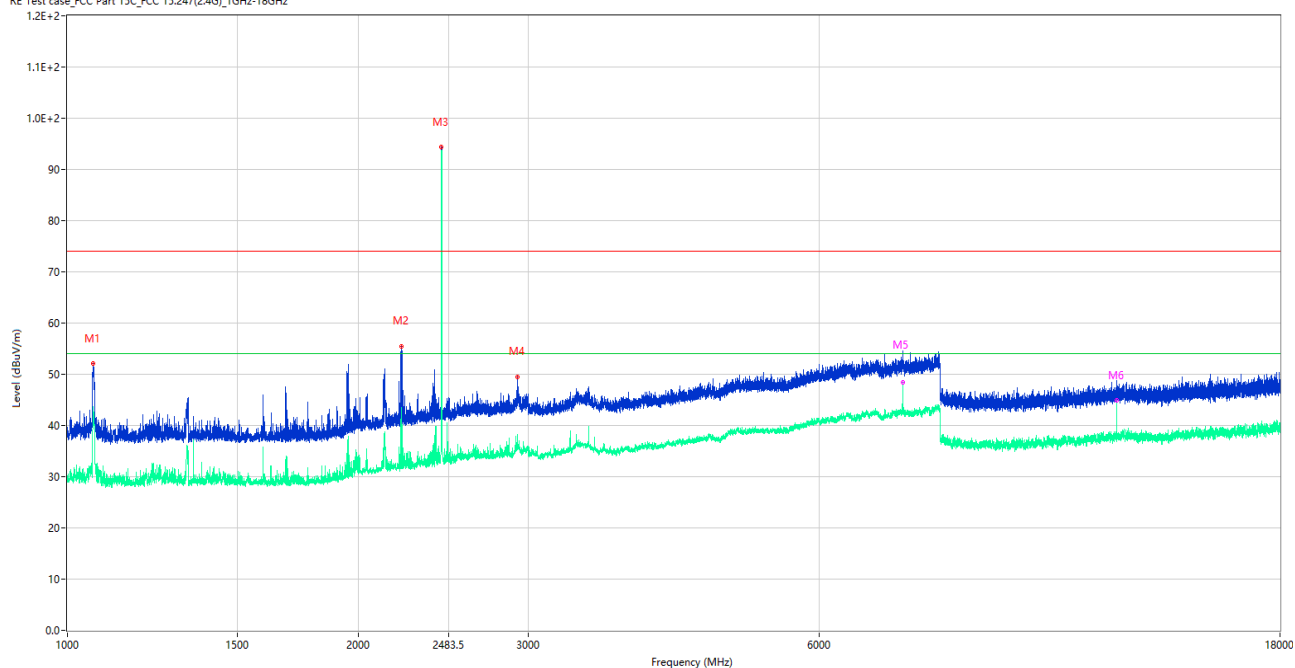
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1064.000	46.70	-15.22	74.0	27.30	Peak	116.00	150	Horizontal	Pass
1**	1064.000	33.00	-15.22	54.0	21.00	AV	116.00	150	Horizontal	Pass
2	1997.000	49.02	-14.44	74.0	24.98	Peak	79.00	150	Horizontal	Pass
2**	1997.000	32.40	-14.44	54.0	21.60	AV	79.00	150	Horizontal	Pass
3	2439.750	102.66	-12.37	74.0	-28.66	Peak	218.00	150	Horizontal	N/A
3**	2439.750	101.93	-12.37	54.0	-47.93	AV	218.00	150	Horizontal	N/A
4	4928.500	49.48	-2.23	74.0	24.52	Peak	360.00	150	Horizontal	Pass
4**	4928.500	38.25	-2.23	54.0	15.75	AV	360.00	150	Horizontal	Pass
5	7319.500	52.21	0.71	74.0	21.79	Peak	360.00	150	Horizontal	Pass
5**	7319.500	45.89	0.71	54.0	8.11	AV	360.00	150	Horizontal	Pass
6	12199.000	49.64	-2.81	74.0	24.36	Peak	359.00	150	Horizontal	Pass
6**	12199.000	45.23	-2.81	54.0	8.77	AV	359.00	150	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

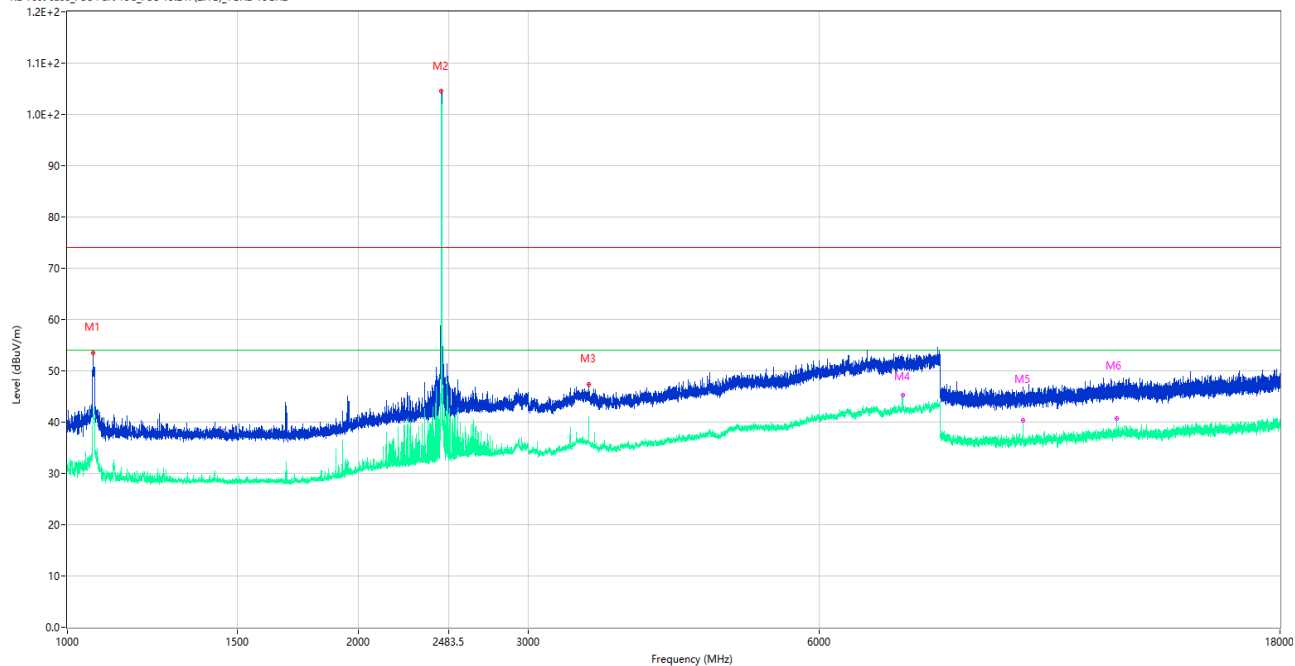


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1063.500	52.02	-15.23	74.0	21.98	Peak	142.00	150	Vertical	Pass
1**	1063.500	43.33	-15.23	54.0	10.67	AV	142.00	150	Vertical	Pass
2	2215.000	55.35	-13.18	74.0	18.65	Peak	119.00	150	Vertical	Pass
2**	2215.000	33.23	-13.18	54.0	20.77	AV	119.00	150	Vertical	Pass
3	2439.750	94.33	-12.37	74.0	-20.33	Peak	1.00	150	Vertical	N/A
3**	2439.750	93.59	-12.37	54.0	-39.59	AV	1.00	150	Vertical	N/A
4	2920.750	49.54	-8.54	74.0	24.46	Peak	75.00	150	Vertical	Pass
4**	2920.750	35.89	-8.54	54.0	18.11	AV	75.00	150	Vertical	Pass
5	7320.500	53.41	0.72	74.0	20.59	Peak	217.00	150	Vertical	Pass
5**	7320.500	48.43	0.72	54.0	5.57	AV	217.00	150	Vertical	Pass
6	12199.500	45.49	-2.81	74.0	28.51	Peak	360.00	150	Vertical	Pass
6**	12199.500	44.99	-2.81	54.0	9.01	AV	360.00	150	Vertical	Pass

Antenna type: Diople, Gain: 2.0 dBi

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

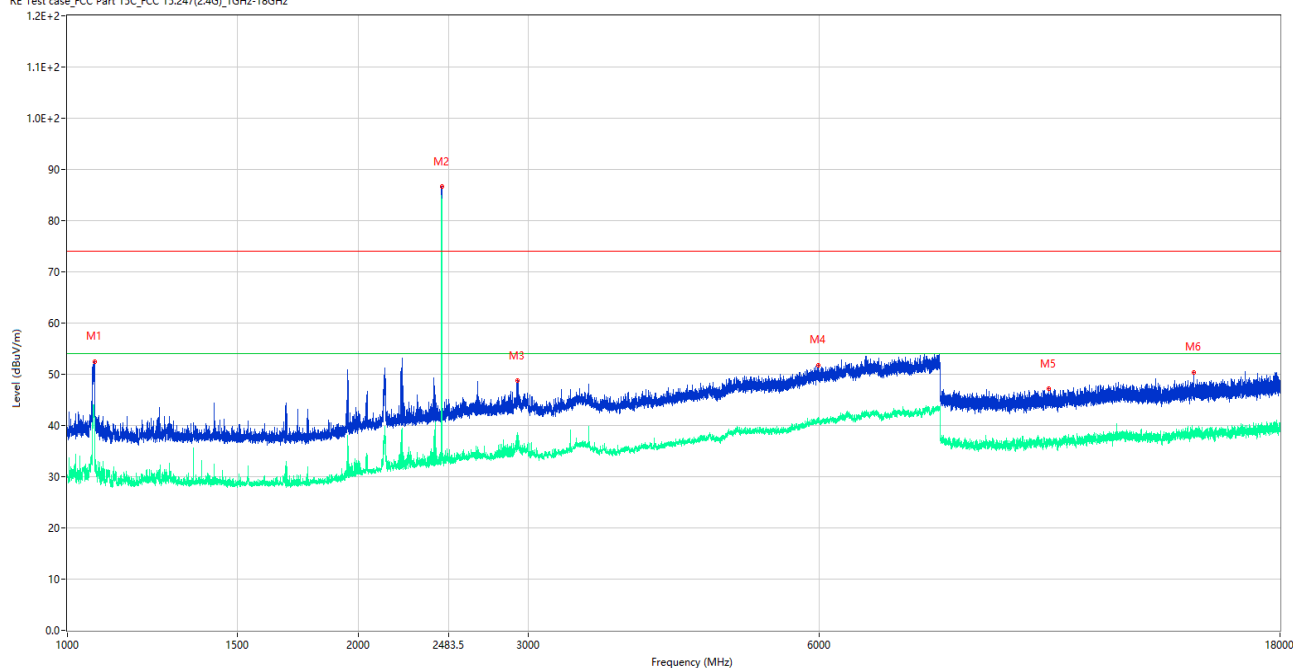
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1063.000	53.55	-15.24	74.0	20.45	Peak	115.00	150	Horizontal	Pass
1**	1063.000	41.36	-15.24	54.0	12.64	AV	115.00	150	Horizontal	Pass
2	2439.500	104.51	-12.37	74.0	-30.51	Peak	336.00	150	Horizontal	N/A
2**	2439.500	101.05	-12.37	54.0	-47.05	AV	336.00	150	Horizontal	N/A
3	3465.000	47.42	-5.10	74.0	26.58	Peak	208.00	150	Horizontal	Pass
3**	3465.000	40.05	-5.10	54.0	13.95	AV	208.00	150	Horizontal	Pass
4	7319.000	51.72	0.70	74.0	22.28	Peak	255.00	150	Horizontal	Pass
4**	7319.000	45.19	0.70	54.0	8.81	AV	255.00	150	Horizontal	Pass
5	9759.000	45.09	-3.79	74.0	28.91	Peak	241.00	150	Horizontal	Pass
5**	9759.000	40.42	-3.79	54.0	13.58	AV	241.00	150	Horizontal	Pass
6	12198.000	45.83	-2.78	74.0	28.17	Peak	95.00	150	Horizontal	Pass
6**	12198.000	40.72	-2.78	54.0	13.28	AV	95.00	150	Horizontal	Pass

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

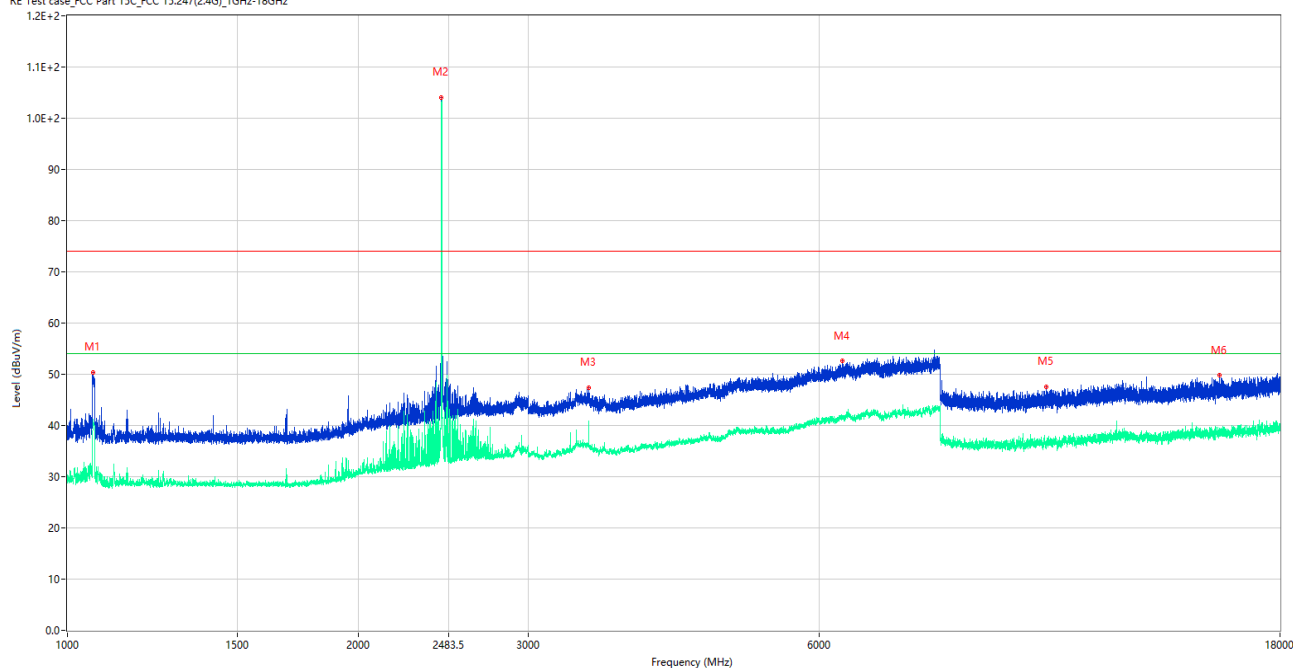
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1066.750	52.46	-15.16	74.0	21.54	Peak	130.00	150	Vertical	Pass
1**	1066.750	40.20	-15.16	54.0	13.80	AV	130.00	150	Vertical	Pass
2	2440.250	86.60	-12.37	74.0	-12.60	Peak	127.00	150	Vertical	N/A
2**	2440.250	83.93	-12.37	54.0	-29.93	AV	127.00	150	Vertical	N/A
3	2925.000	48.72	-8.21	74.0	25.28	Peak	76.00	150	Vertical	Pass
3**	2925.000	35.78	-8.21	54.0	18.22	AV	76.00	150	Vertical	Pass
4	5992.000	51.76	-0.09	74.0	22.24	Peak	246.00	150	Vertical	Pass
4**	5992.000	41.07	-0.09	54.0	12.93	AV	246.00	150	Vertical	Pass
5	10377.500	47.17	-3.42	74.0	26.83	Peak	63.00	150	Vertical	Pass
5**	10377.500	36.81	-3.42	54.0	17.19	AV	63.00	150	Vertical	Pass
6	14663.500	50.38	-2.29	74.0	23.62	Peak	9.00	150	Vertical	Pass
6**	14663.500	38.10	-2.29	54.0	15.90	AV	9.00	150	Vertical	Pass

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

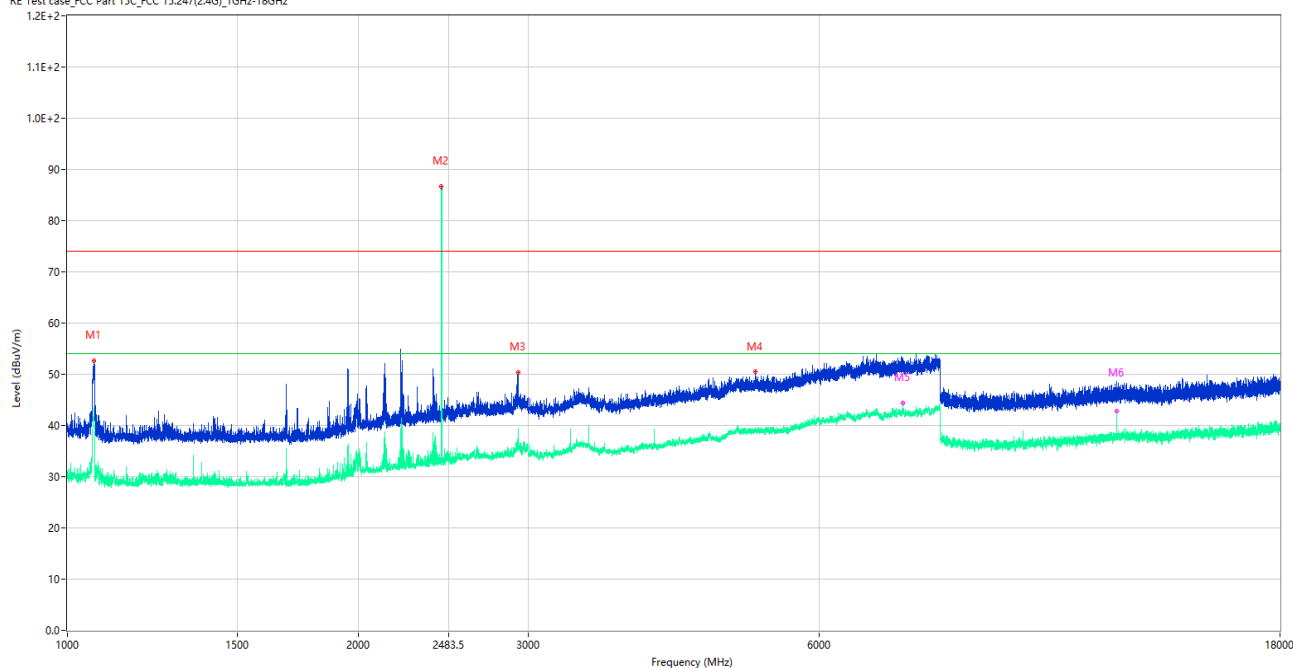
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1063.000	50.44	-15.24	74.0	23.56	Peak	120.00	150	Horizontal	Pass
1**	1063.000	40.63	-15.24	54.0	13.37	AV	120.00	150	Horizontal	Pass
2	2439.750	104.11	-12.37	74.0	-30.11	Peak	332.00	150	Horizontal	N/A
2**	2439.750	101.55	-12.37	54.0	-47.55	AV	332.00	150	Horizontal	N/A
3	3464.500	47.40	-5.08	74.0	26.60	Peak	359.00	150	Horizontal	Pass
3**	3464.500	37.22	-5.08	54.0	16.78	AV	359.00	150	Horizontal	Pass
4	6340.500	52.55	-0.75	74.0	21.45	Peak	355.00	150	Horizontal	Pass
4**	6340.500	41.25	-0.75	54.0	12.75	AV	355.00	150	Horizontal	Pass
5	10318.500	47.49	-3.19	74.0	26.51	Peak	264.00	150	Horizontal	Pass
5**	10318.500	36.66	-3.19	54.0	17.34	AV	264.00	150	Horizontal	Pass
6	15576.500	49.77	-2.44	74.0	24.23	Peak	235.00	150	Horizontal	Pass
6**	15576.500	38.92	-2.44	54.0	15.08	AV	235.00	150	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

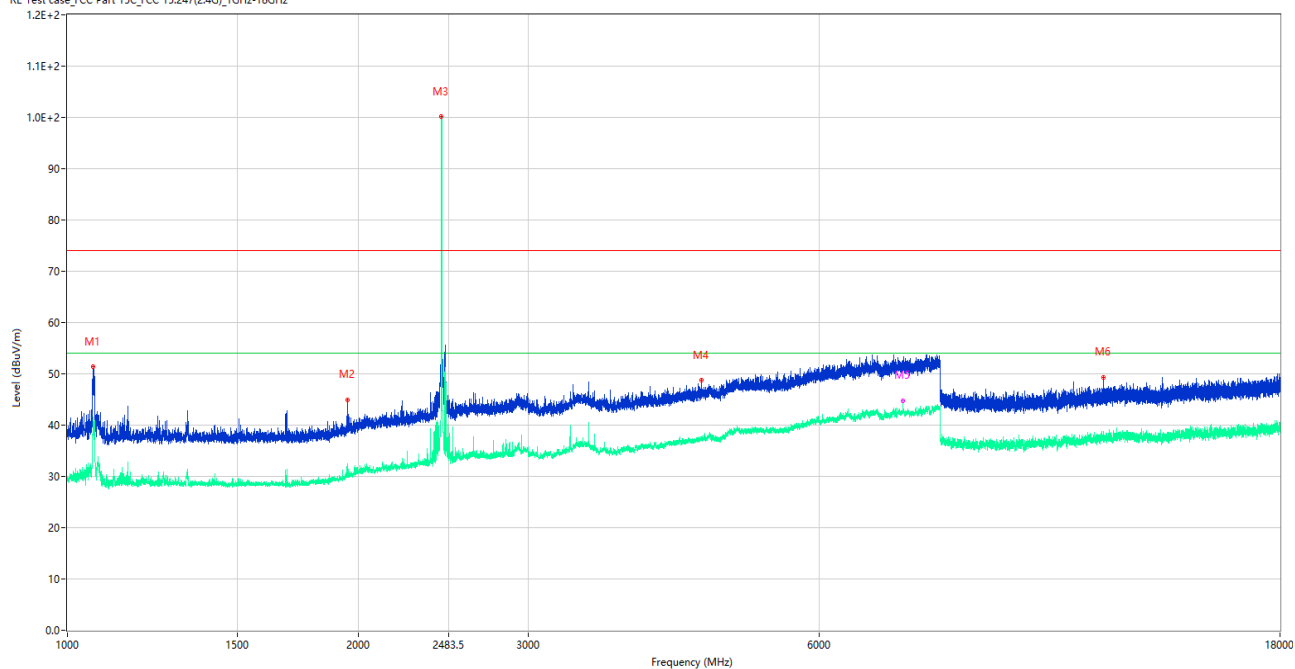


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1065.250	52.71	-15.17	74.0	21.29	Peak	131.00	150	Vertical	Pass
1**	1065.250	41.69	-15.17	54.0	12.31	AV	131.00	150	Vertical	Pass
2	2439.750	86.70	-12.37	74.0	-12.70	Peak	95.00	150	Vertical	N/A
2**	2439.750	84.51	-12.37	54.0	-30.51	AV	95.00	150	Vertical	N/A
3	2930.250	50.36	-7.95	74.0	23.64	Peak	76.00	150	Vertical	Pass
3**	2930.250	37.37	-7.95	54.0	16.63	AV	76.00	150	Vertical	Pass
4	5152.000	50.47	-2.07	74.0	23.53	Peak	46.00	150	Vertical	Pass
4**	5152.000	39.08	-2.07	54.0	14.92	AV	46.00	150	Vertical	Pass
5	7320.000	51.99	0.73	74.0	22.01	Peak	253.00	150	Vertical	Pass
5**	7320.000	44.41	0.73	54.0	9.59	AV	253.00	150	Vertical	Pass
6	12199.000	48.55	-2.81	74.0	25.45	Peak	271.00	150	Vertical	Pass
6**	12199.000	42.84	-2.81	54.0	11.16	AV	271.00	150	Vertical	Pass

Antenna type: PCB, Gain: 0.8 dBi

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

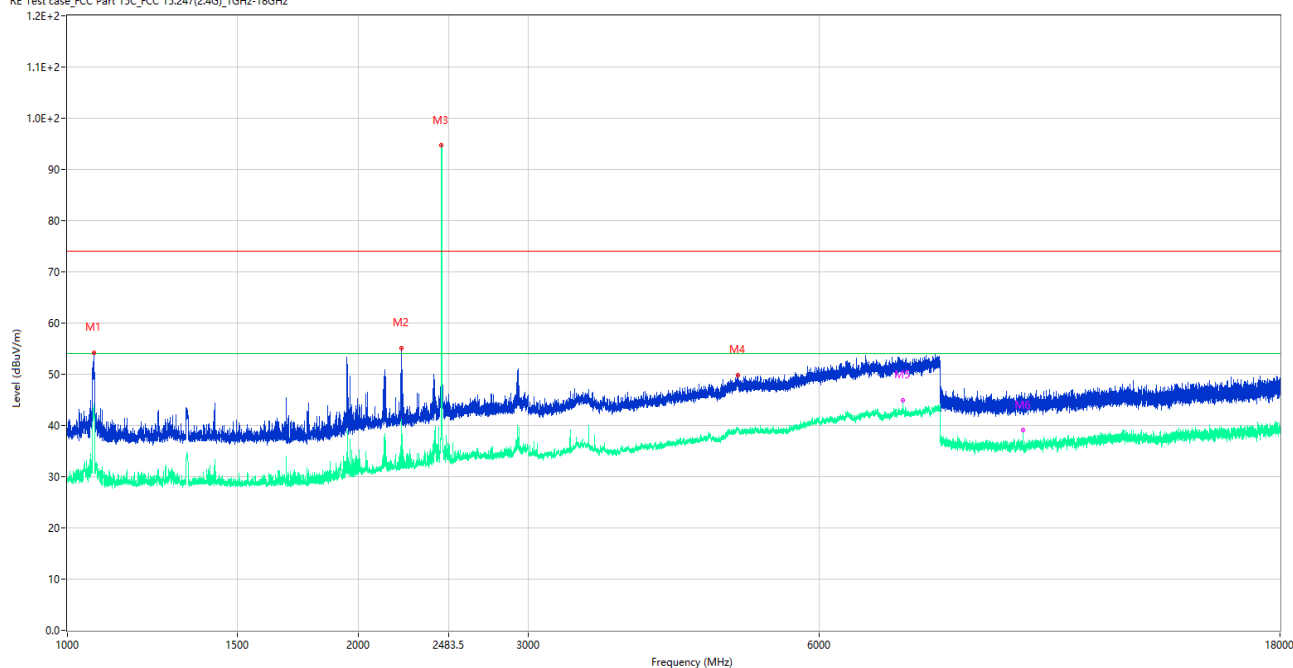
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1064.000	51.34	-15.22	74.0	22.66	Peak	103.00	150	Horizontal	Pass
1**	1064.000	38.65	-15.22	54.0	15.35	AV	103.00	150	Horizontal	Pass
2	1948.750	44.94	-14.85	74.0	29.06	Peak	142.00	150	Horizontal	Pass
2**	1948.750	30.34	-14.85	54.0	23.66	AV	142.00	150	Horizontal	Pass
3	2440.000	100.09	-12.37	74.0	-26.09	Peak	337.00	150	Horizontal	N/A
3**	2440.000	99.29	-12.37	54.0	-45.29	AV	337.00	150	Horizontal	N/A
4	4534.000	48.72	-2.68	74.0	25.28	Peak	20.00	150	Horizontal	Pass
4**	4534.000	37.58	-2.68	54.0	16.42	AV	20.00	150	Horizontal	Pass
5	7320.500	52.70	0.72	74.0	21.30	Peak	92.00	150	Horizontal	Pass
5**	7320.500	44.77	0.72	54.0	9.23	AV	92.00	150	Horizontal	Pass
6	11807.000	49.35	-3.54	74.0	24.65	Peak	360.00	150	Horizontal	Pass
6**	11807.000	37.62	-3.54	54.0	16.38	AV	360.00	150	Horizontal	Pass

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

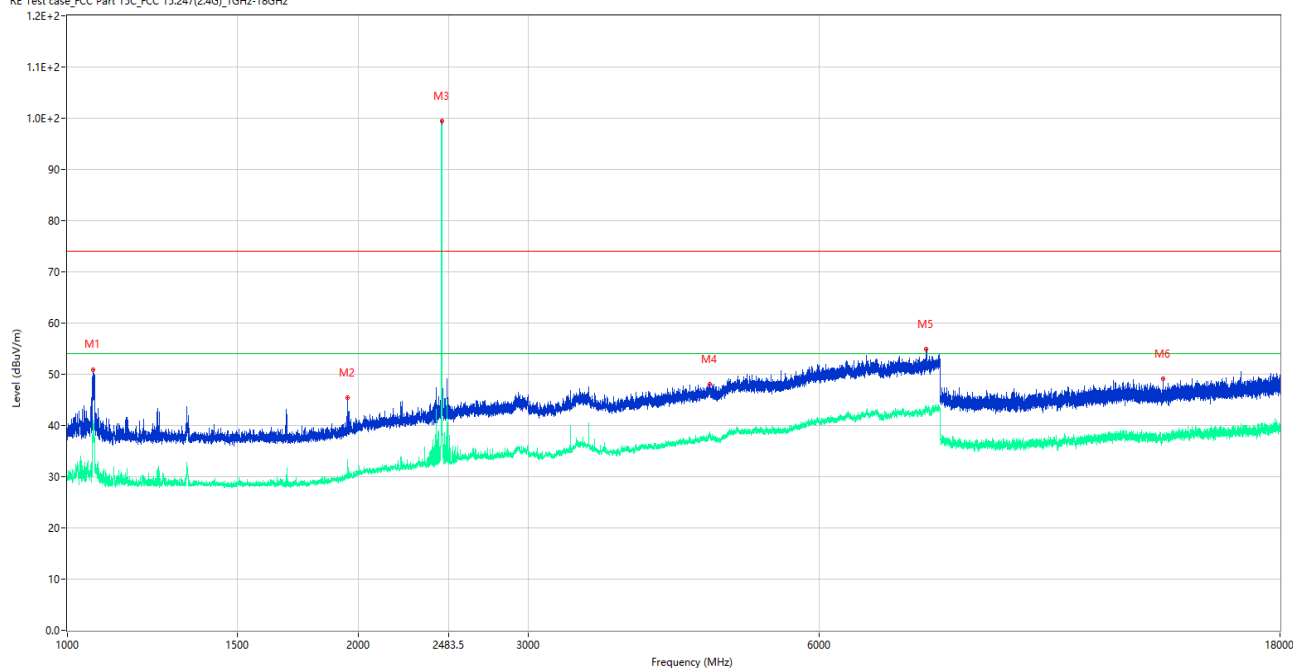
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1064.250	54.25	-15.21	74.0	19.75	Peak	135.00	150	Vertical	Pass
1**	1064.250	42.76	-15.21	54.0	11.24	AV	135.00	150	Vertical	Pass
2	2217.250	55.11	-13.13	74.0	18.89	Peak	113.00	150	Vertical	Pass
2**	2217.250	32.07	-13.13	54.0	21.93	AV	113.00	150	Vertical	Pass
3	2440.000	94.67	-12.37	74.0	-20.67	Peak	131.00	150	Vertical	N/A
3**	2440.000	93.88	-12.37	54.0	-39.88	AV	131.00	150	Vertical	N/A
4	4947.000	49.87	-1.68	74.0	24.13	Peak	290.00	150	Vertical	Pass
4**	4947.000	39.31	-1.68	54.0	14.69	AV	290.00	150	Vertical	Pass
5	7320.500	52.99	0.72	74.0	21.01	Peak	230.00	150	Vertical	Pass
5**	7320.500	44.93	0.72	54.0	9.07	AV	230.00	150	Vertical	Pass
6	9760.500	45.26	-3.63	74.0	28.74	Peak	11.00	150	Vertical	Pass
6**	9760.500	39.11	-3.63	54.0	14.89	AV	11.00	150	Vertical	Pass

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

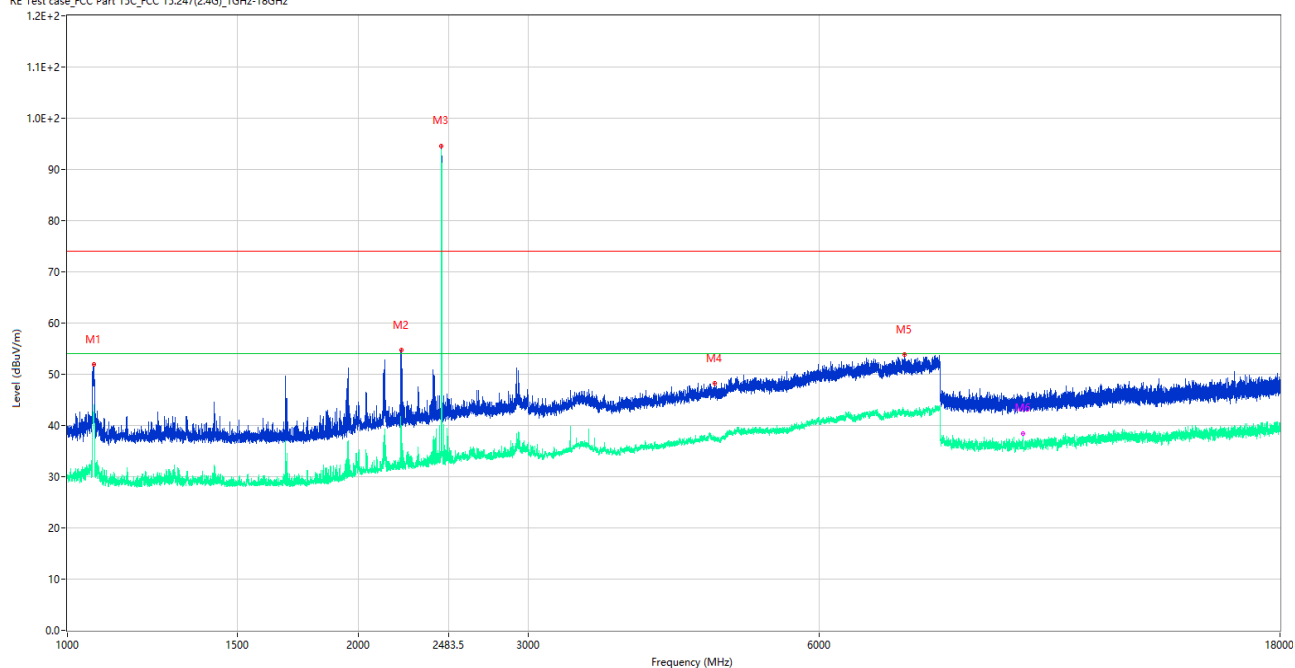
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1063.500	50.91	-15.23	74.0	23.09	Peak	60.00	150	Horizontal	Pass
1**	1063.500	39.74	-15.23	54.0	14.26	AV	60.00	150	Horizontal	Pass
2	1951.000	45.44	-14.84	74.0	28.56	Peak	136.00	150	Horizontal	Pass
2**	1951.000	33.29	-14.84	54.0	20.71	AV	136.00	150	Horizontal	Pass
3	2440.250	99.43	-12.37	74.0	-25.43	Peak	78.00	150	Horizontal	N/A
3**	2440.250	98.46	-12.37	54.0	-44.46	AV	78.00	150	Horizontal	N/A
4	4623.500	47.99	-2.66	74.0	26.01	Peak	310.00	150	Horizontal	Pass
4**	4623.500	38.19	-2.66	54.0	15.81	AV	310.00	150	Horizontal	Pass
5	7742.500	54.91	1.33	74.0	19.09	Peak	242.00	150	Horizontal	Pass
5**	7742.500	43.43	1.33	54.0	10.57	AV	242.00	150	Horizontal	Pass
6	13616.000	49.10	-3.04	74.0	24.90	Peak	245.00	150	Horizontal	Pass
6**	13616.000	37.82	-3.04	54.0	16.18	AV	245.00	150	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

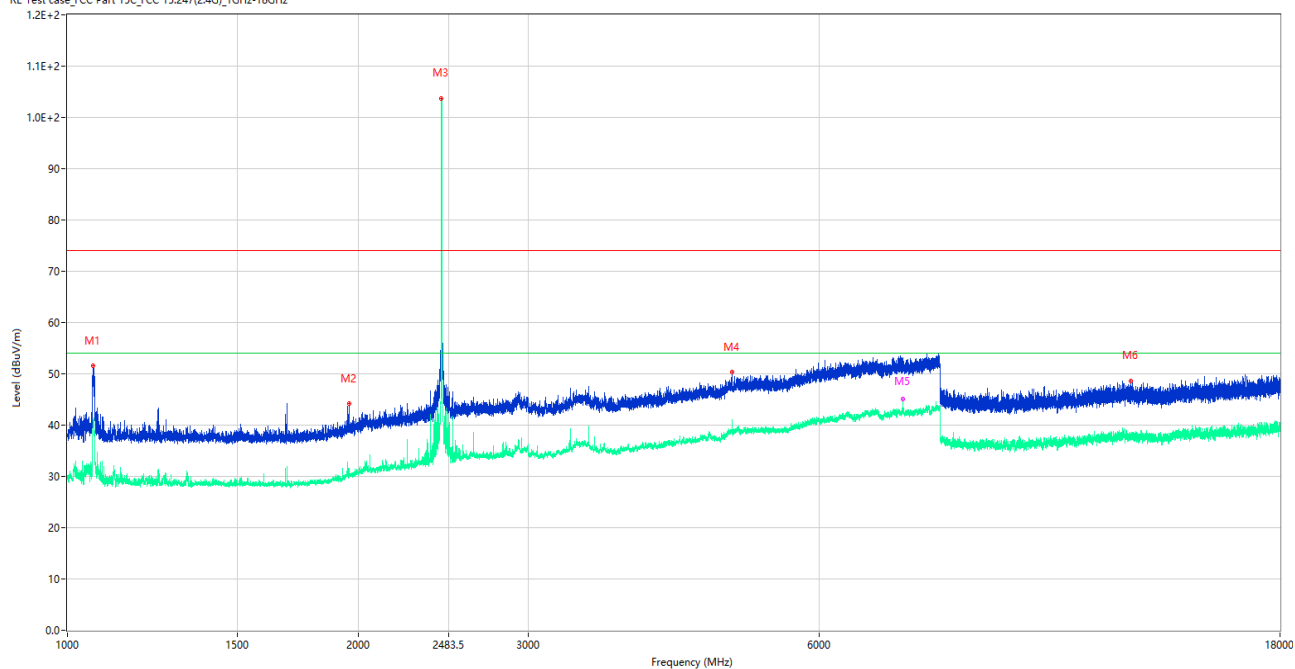


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1064.250	51.85	-15.21	74.0	22.15	Peak	121.00	150	Vertical	Pass
1**	1064.250	41.59	-15.21	54.0	12.41	AV	121.00	150	Vertical	Pass
2	2216.250	54.69	-13.13	74.0	19.31	Peak	112.00	150	Vertical	Pass
2**	2216.250	31.94	-13.13	54.0	22.06	AV	112.00	150	Vertical	Pass
3	2439.750	94.60	-12.37	74.0	-20.60	Peak	138.00	150	Vertical	N/A
3**	2439.750	93.86	-12.37	54.0	-39.86	AV	138.00	150	Vertical	N/A
4	4677.500	48.26	-3.68	74.0	25.74	Peak	327.00	150	Vertical	Pass
4**	4677.500	37.48	-3.68	54.0	16.52	AV	327.00	150	Vertical	Pass
5	7350.500	53.82	0.93	74.0	20.18	Peak	327.00	150	Vertical	Pass
5**	7350.500	42.07	0.93	54.0	11.93	AV	327.00	150	Vertical	Pass
6	9759.500	43.85	-3.74	74.0	30.15	Peak	209.00	150	Vertical	Pass
6**	9759.500	38.49	-3.74	54.0	15.51	AV	209.00	150	Vertical	Pass

Antenna type: Ceramics, Gain: 1.05 dBi

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

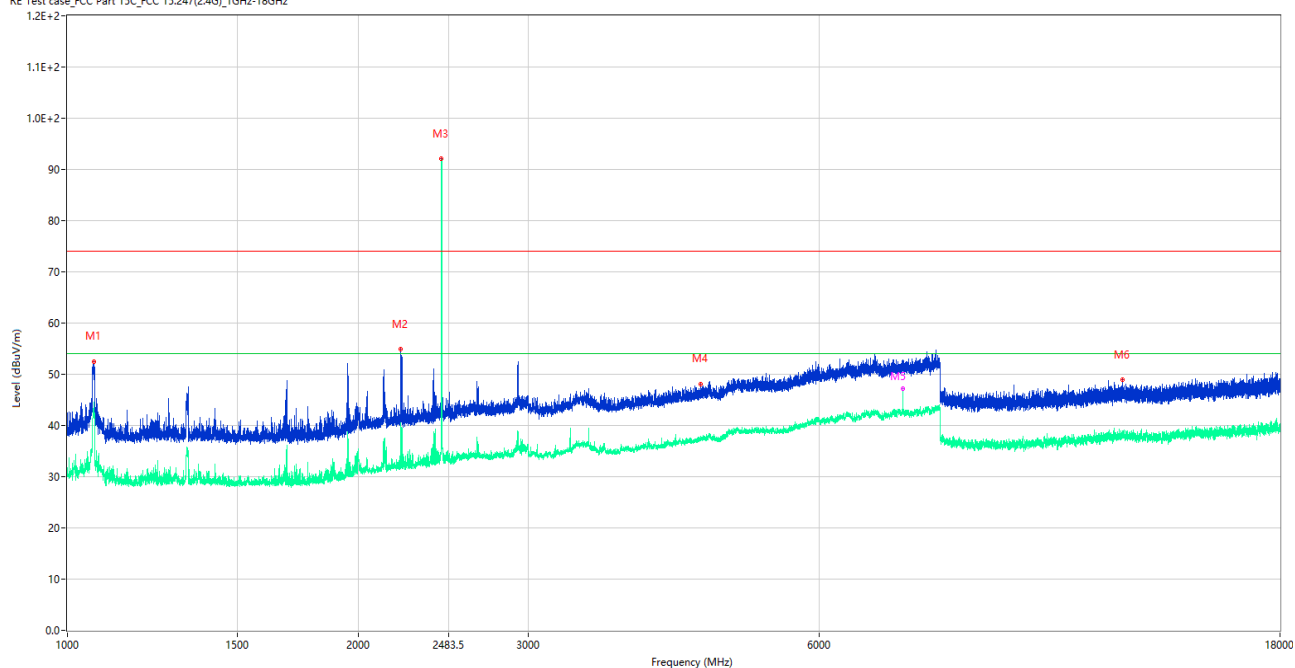
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1063.500	51.51	-15.23	74.0	22.49	Peak	115.00	150	Horizontal	Pass
1**	1063.500	39.97	-15.23	54.0	14.03	AV	115.00	150	Horizontal	Pass
2	1956.000	44.19	-14.93	74.0	29.81	Peak	155.00	150	Horizontal	Pass
2**	1956.000	30.46	-14.93	54.0	23.54	AV	155.00	150	Horizontal	Pass
3	2440.000	103.74	-12.37	74.0	-29.74	Peak	259.00	150	Horizontal	N/A
3**	2440.000	103.00	-12.37	54.0	-49.00	AV	259.00	150	Horizontal	N/A
4	4880.000	50.30	-2.29	74.0	23.70	Peak	58.00	150	Horizontal	Pass
4**	4880.000	40.00	-2.29	54.0	14.00	AV	58.00	150	Horizontal	Pass
5	7320.500	51.88	0.72	74.0	22.12	Peak	0.00	150	Horizontal	Pass
5**	7320.500	45.01	0.72	54.0	8.99	AV	0.00	150	Horizontal	Pass
6	12602.000	48.60	-2.77	74.0	25.40	Peak	360.00	150	Horizontal	Pass
6**	12602.000	37.57	-2.77	54.0	16.43	AV	360.00	150	Horizontal	Pass

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

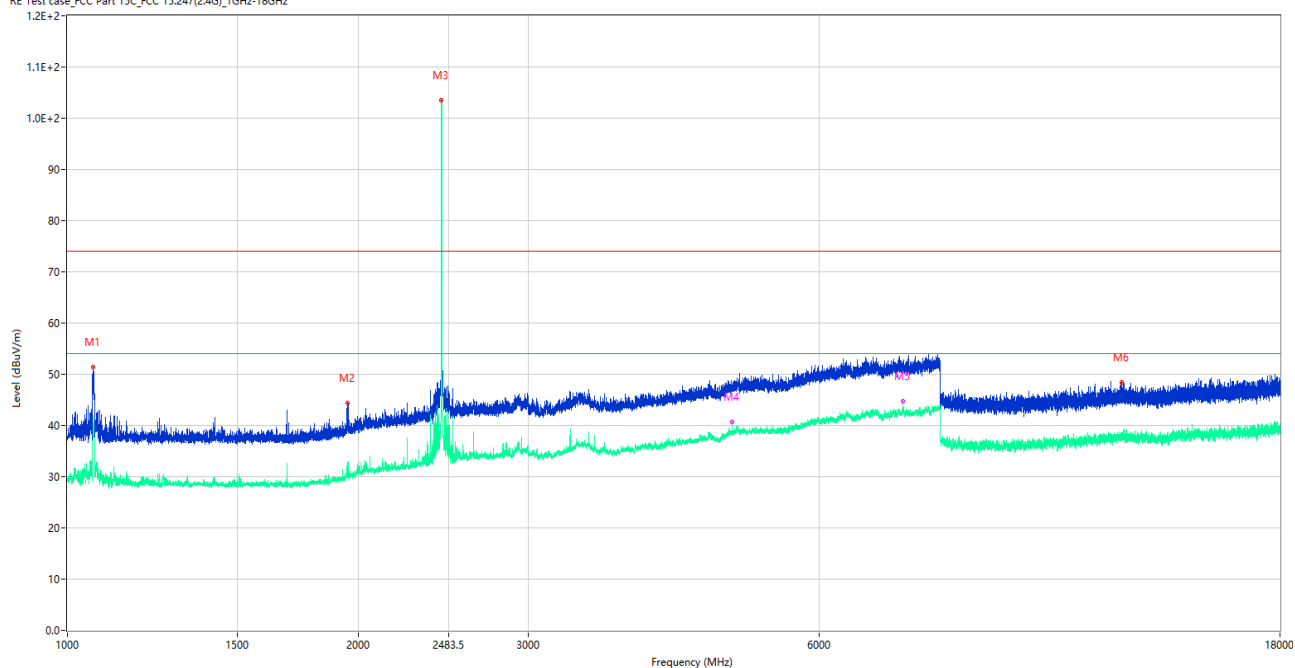
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1065.000	52.53	-15.18	74.0	21.47	Peak	143.00	150	Vertical	Pass
1**	1065.000	42.64	-15.18	54.0	11.36	AV	143.00	150	Vertical	Pass
2	2214.000	54.83	-13.23	74.0	19.17	Peak	120.00	150	Vertical	Pass
2**	2214.000	32.93	-13.23	54.0	21.07	AV	120.00	150	Vertical	Pass
3	2440.000	92.06	-12.37	74.0	-18.06	Peak	160.00	150	Vertical	N/A
3**	2440.000	91.32	-12.37	54.0	-37.32	AV	160.00	150	Vertical	N/A
4	4521.000	48.15	-2.71	74.0	25.85	Peak	7.00	150	Vertical	Pass
4**	4521.000	37.44	-2.71	54.0	16.56	AV	7.00	150	Vertical	Pass
5	7320.500	52.15	0.72	74.0	21.85	Peak	245.00	150	Vertical	Pass
5**	7320.500	47.14	0.72	54.0	6.86	AV	245.00	150	Vertical	Pass
6	12378.000	48.89	-2.32	74.0	25.11	Peak	242.00	150	Vertical	Pass
6**	12378.000	38.13	-2.32	54.0	15.87	AV	242.00	150	Vertical	Pass

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

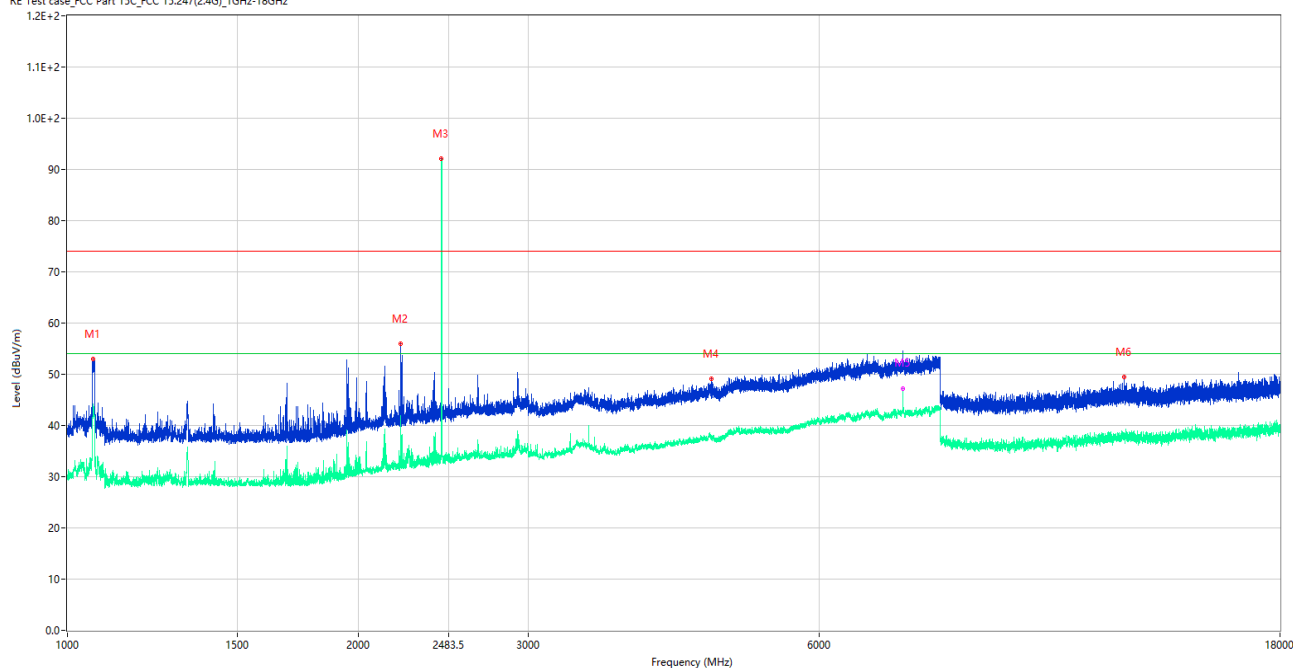
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1063.750	51.38	-15.22	74.0	22.62	Peak	59.00	150	Horizontal	Pass
1**	1063.750	39.90	-15.22	54.0	14.10	AV	59.00	150	Horizontal	Pass
2	1949.500	44.30	-14.84	74.0	29.70	Peak	188.00	150	Horizontal	Pass
2**	1949.500	30.25	-14.84	54.0	23.75	AV	188.00	150	Horizontal	Pass
3	2440.000	103.48	-12.37	74.0	-29.48	Peak	256.00	150	Horizontal	N/A
3**	2440.000	102.74	-12.37	54.0	-48.74	AV	256.00	150	Horizontal	N/A
4	4880.500	47.50	-2.29	74.0	26.50	Peak	357.00	150	Horizontal	Pass
4**	4880.500	40.73	-2.29	54.0	13.27	AV	357.00	150	Horizontal	Pass
5	7320.500	52.35	0.72	74.0	21.65	Peak	192.00	150	Horizontal	Pass
5**	7320.500	44.67	0.72	54.0	9.33	AV	192.00	150	Horizontal	Pass
6	12348.500	48.36	-2.28	74.0	25.64	Peak	38.00	150	Horizontal	Pass
6**	12348.500	36.68	-2.28	54.0	17.32	AV	38.00	150	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	1063.500	52.94	-15.23	74.0	21.06	Peak	139.00	150	Vertical	Pass
1**	1063.500	43.41	-15.23	54.0	10.59	AV	139.00	150	Vertical	Pass
2	2212.250	55.89	-13.24	74.0	18.11	Peak	111.00	150	Vertical	Pass
2**	2212.250	39.32	-13.24	54.0	14.68	AV	111.00	150	Vertical	Pass
3	2440.000	92.08	-12.37	74.0	-18.08	Peak	152.00	150	Vertical	N/A
3**	2440.000	91.34	-12.37	54.0	-37.34	AV	152.00	150	Vertical	N/A
4	4640.500	49.07	-3.11	74.0	24.93	Peak	20.00	150	Vertical	Pass
4**	4640.500	37.28	-3.11	54.0	16.72	AV	20.00	150	Vertical	Pass
5	7320.500	53.02	0.72	74.0	20.98	Peak	225.00	150	Vertical	Pass
5**	7320.500	47.24	0.72	54.0	6.76	AV	225.00	150	Vertical	Pass
6	12426.000	49.39	-2.11	74.0	24.61	Peak	322.00	150	Vertical	Pass
6**	12426.000	37.39	-2.11	54.0	16.61	AV	322.00	150	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.

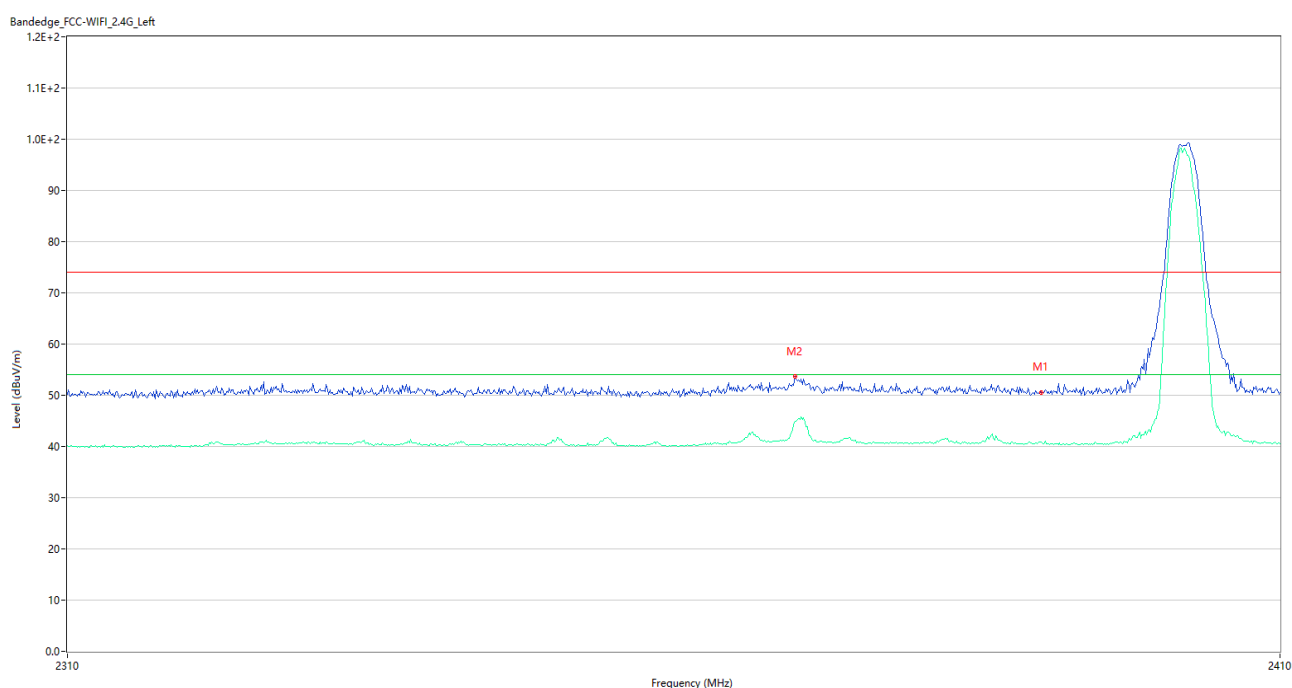
Note 3: According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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

Test Data and Plots

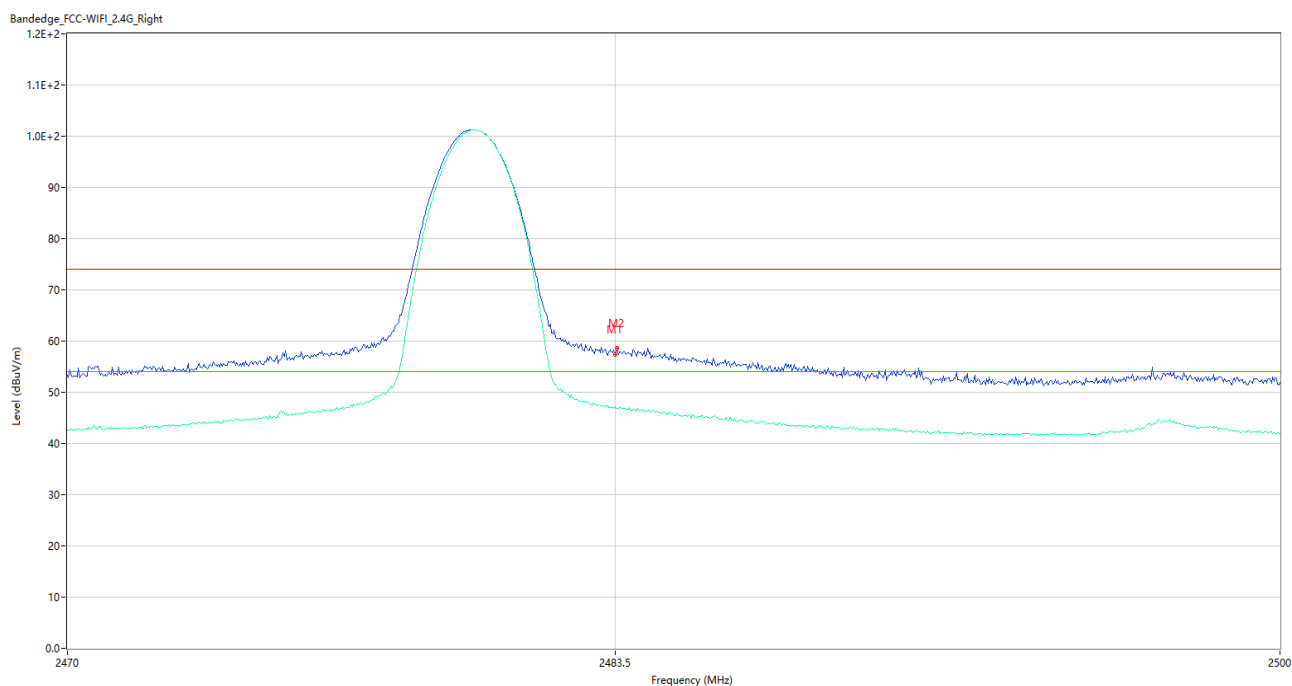
Antenna type: PCB, Gain: 2.2 dBi

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	2390.000	50.55	-4.87	74.0	23.45	Peak	220.09	150	Horizontal	Pass
1**	2390.000	40.83	-4.87	54.0	13.17	AV	220.09	150	Horizontal	Pass
2	2369.500	53.69	-4.06	74.0	20.31	Peak	354.00	150	Horizontal	Pass
2**	2369.500	44.89	-4.06	54.0	9.11	AV	354.00	150	Horizontal	Pass

GFSK (BLE 1Mbps) HIGH CHANNEL



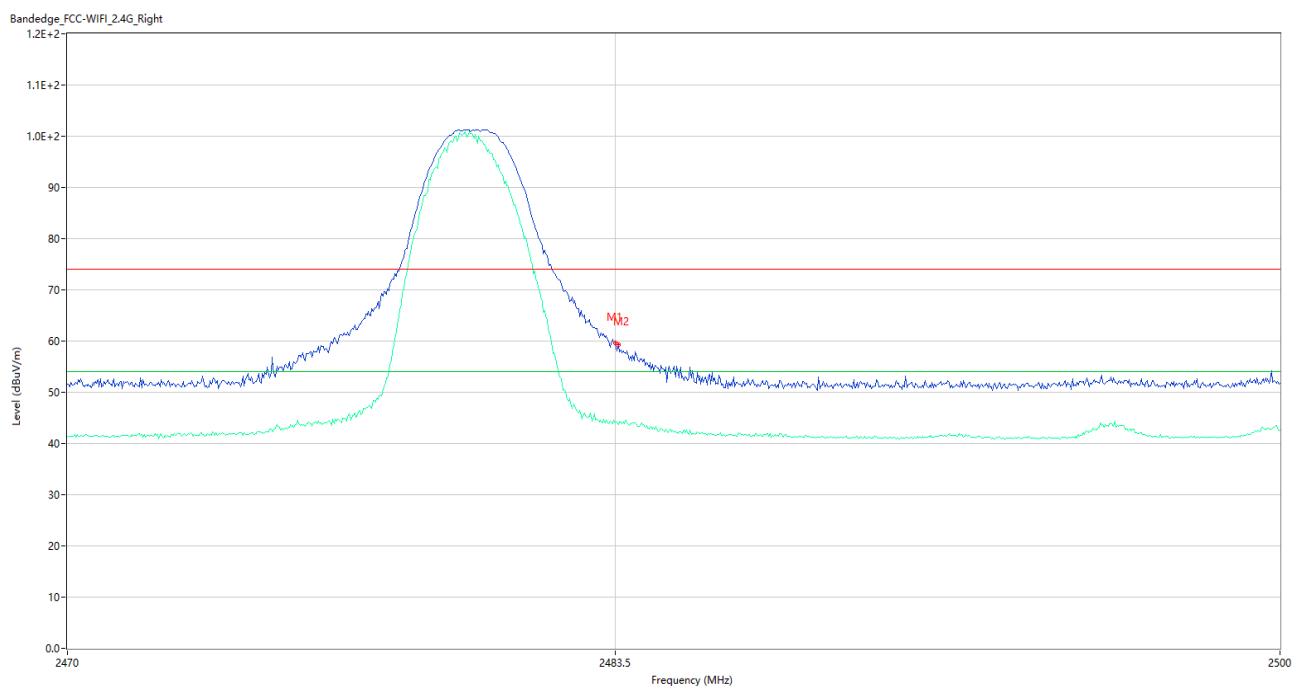
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	57.31	-3.78	74.0	16.69	Peak	0.00	150	Horizontal	Pass
1**	2483.500	47.28	-3.78	54.0	6.72	AV	0.00	150	Horizontal	Pass
2	2483.560	58.64	-3.78	74.0	15.36	Peak	11.00	150	Horizontal	Pass
2**	2483.560	46.87	-3.78	54.0	7.13	AV	11.00	150	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	2390.000	51.43	-4.87	74.0	22.57	Peak	48.22	150	Horizontal	Pass
1**	2390.000	40.61	-4.87	54.0	13.39	AV	48.22	150	Horizontal	Pass
2	2369.600	53.19	-4.05	74.0	20.81	Peak	213.00	150	Horizontal	Pass
2**	2369.600	43.74	-4.05	54.0	10.26	AV	213.00	150	Horizontal	Pass

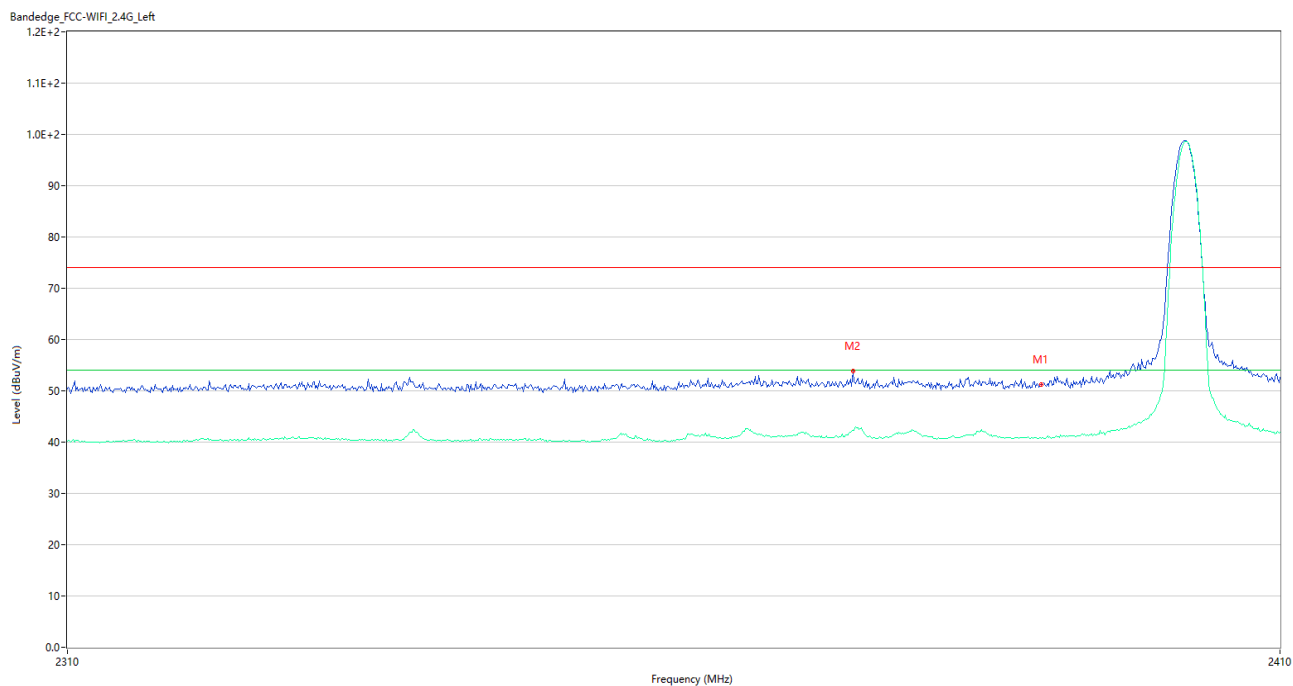
GFSK (BLE 2Mbps) HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	59.71	-3.78	74.0	14.29	Peak	7.00	150	Horizontal	Pass
1**	2483.500	43.95	-3.78	54.0	10.05	AV	7.00	150	Horizontal	Pass
2	2483.590	59.23	-3.78	74.0	14.77	Peak	10.00	150	Horizontal	Pass
2**	2483.590	43.74	-3.78	54.0	10.26	AV	10.00	150	Horizontal	Pass

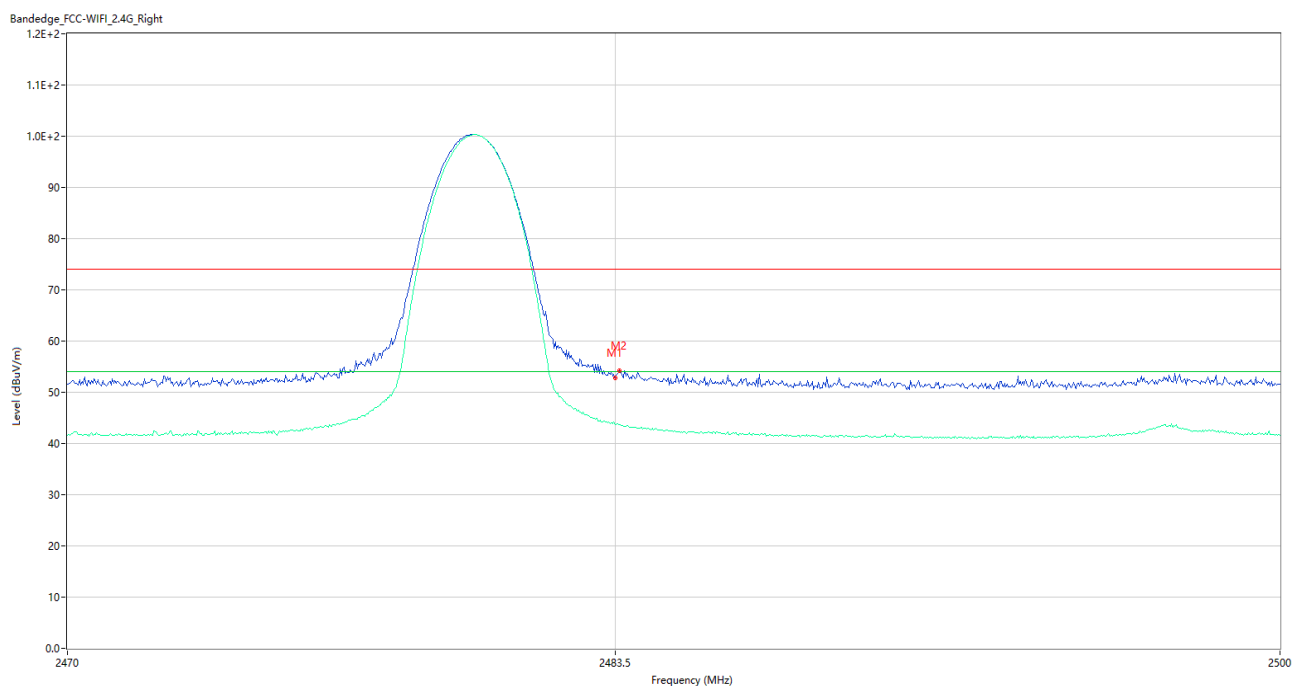
Antenna type: PCB, Gain: 3.3 dBi

GFSK (BLE 1Mbps) LOW CHANNEL



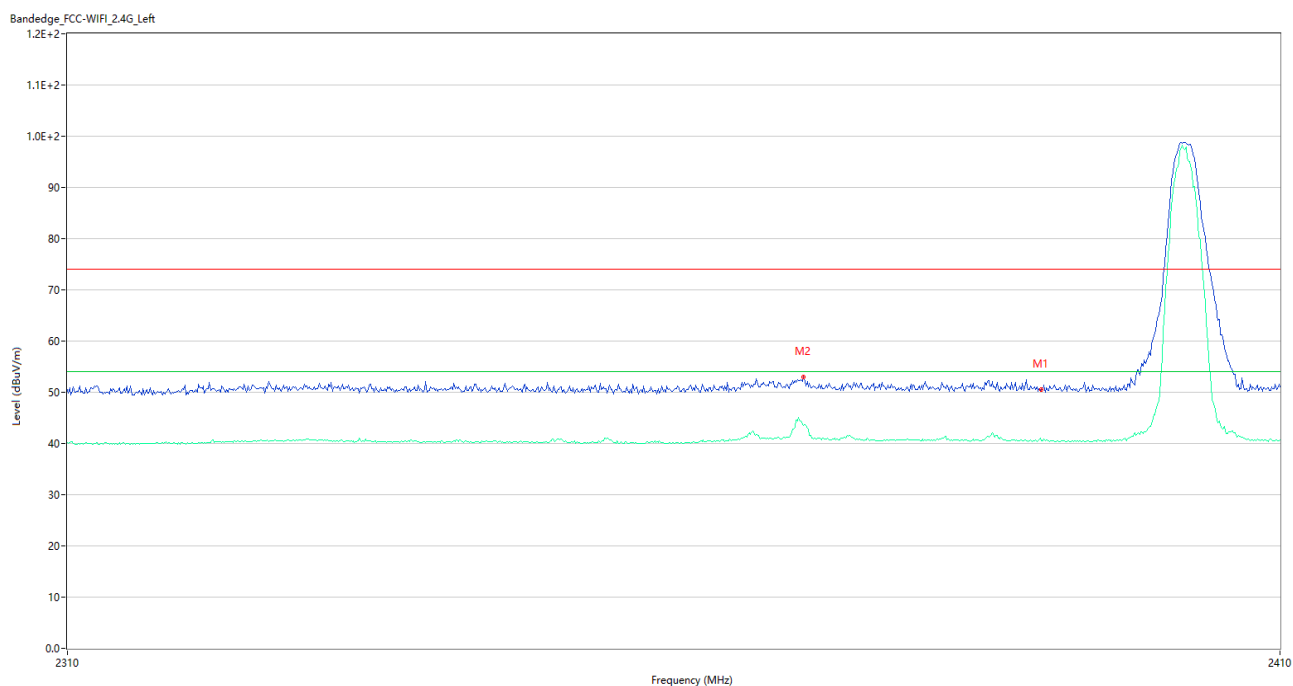
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	51.21	-4.87	74.0	22.79	Peak	356.79	150	Horizontal	Pass
1**	2390.000	40.73	-4.87	54.0	13.27	AV	356.79	150	Horizontal	Pass
2	2374.300	53.91	-4.13	74.0	20.09	Peak	4.00	150	Horizontal	Pass
2**	2374.300	42.30	-4.13	54.0	11.70	AV	4.00	150	Horizontal	Pass

GFSK (BLE 1Mbps) HIGH CHANNEL



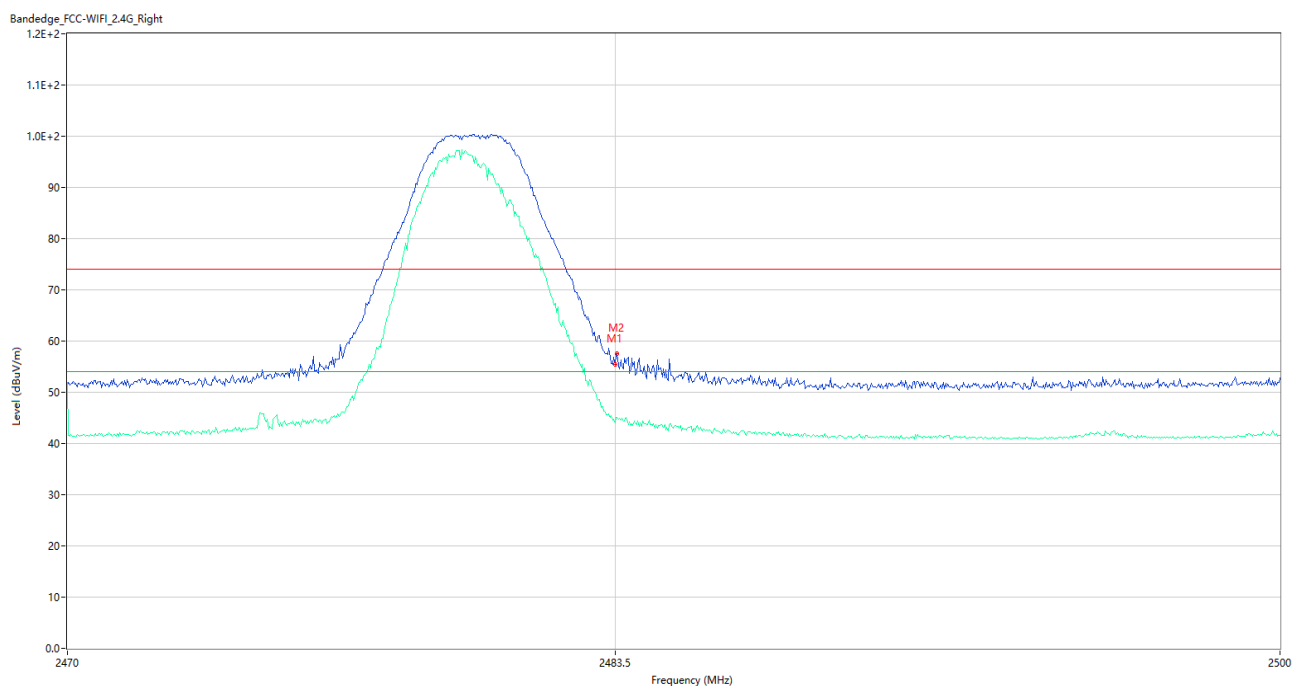
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	52.77	-3.78	74.0	21.23	Peak	6.00	150	Horizontal	Pass
1**	2483.500	43.74	-3.78	54.0	10.26	AV	6.00	150	Horizontal	Pass
2	2483.620	54.19	-3.78	74.0	19.81	Peak	340.00	150	Horizontal	Pass
2**	2483.620	43.70	-3.78	54.0	10.30	AV	340.00	150	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	2390.000	50.57	-4.87	74.0	23.43	Peak	2.27	150	Horizontal	Pass
1**	2390.000	40.59	-4.87	54.0	13.41	AV	2.27	150	Horizontal	Pass
2	2370.200	53.00	-4.01	74.0	21.00	Peak	272.00	150	Horizontal	Pass
2**	2370.200	43.46	-4.01	54.0	10.54	AV	272.00	150	Horizontal	Pass

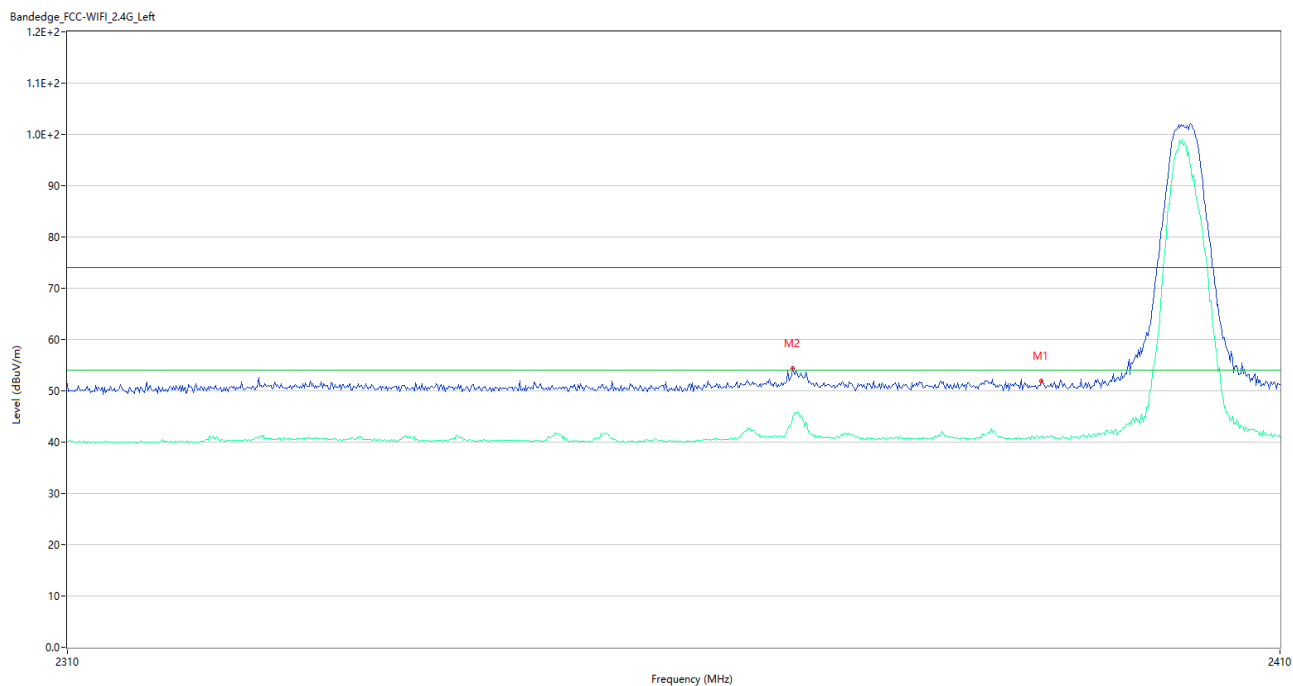
GFSK (BLE 2Mbps) HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	55.39	-3.78	74.0	18.61	Peak	280.00	150	Horizontal	Pass
1**	2483.500	44.09	-3.78	54.0	9.91	AV	280.00	150	Horizontal	Pass
2	2483.560	57.46	-3.78	74.0	16.54	Peak	320.00	150	Horizontal	Pass
2**	2483.560	45.04	-3.78	54.0	8.96	AV	320.00	150	Horizontal	Pass

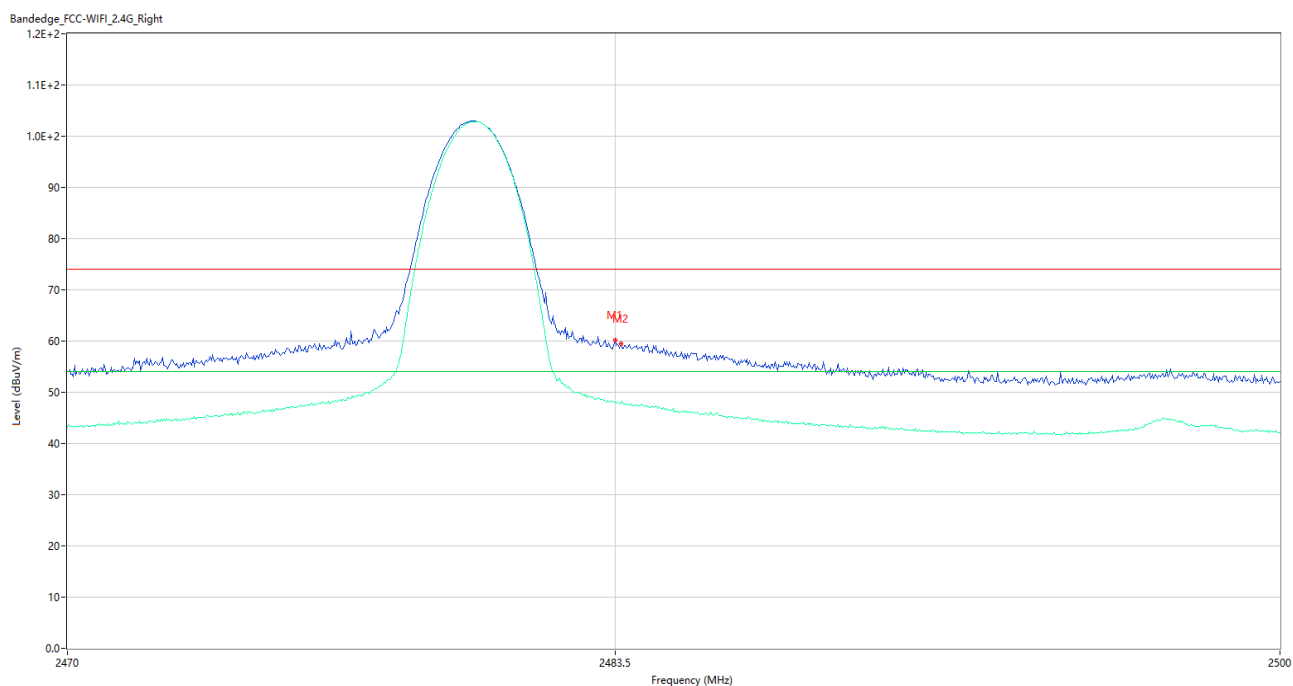
Antenna type: Diople, Gain: 2.0 dBi

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	2390.000	51.92	-4.87	74.0	22.08	Peak	174.24	150	Horizontal	Pass
1**	2390.000	40.92	-4.87	54.0	13.08	AV	174.24	150	Horizontal	Pass
2	2369.300	54.35	-4.08	74.0	19.65	Peak	360.00	150	Horizontal	Pass
2**	2369.300	44.83	-4.08	54.0	9.17	AV	360.00	150	Horizontal	Pass

GFSK (BLE 1Mbps) HIGH CHANNEL



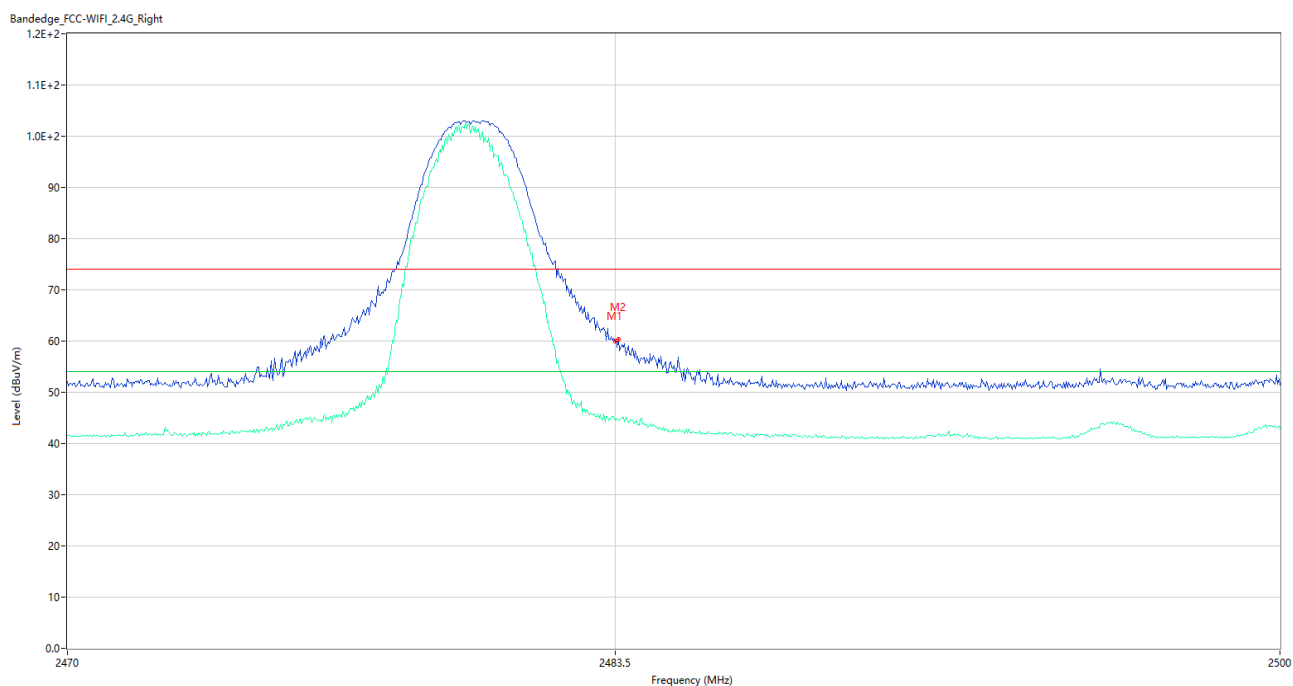
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	60.22	-3.78	74.0	13.78	Peak	340.00	150	Horizontal	Pass
1**	2483.500	48.16	-3.78	54.0	5.84	AV	340.00	150	Horizontal	Pass
2	2483.650	59.56	-3.78	74.0	14.44	Peak	340.00	150	Horizontal	Pass
2**	2483.650	47.86	-3.78	54.0	6.14	AV	340.00	150	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	2390.000	51.08	-4.87	74.0	22.92	Peak	0.08	150	Horizontal	Pass
1**	2390.000	40.68	-4.87	54.0	13.32	AV	0.08	150	Horizontal	Pass
2	2378.200	54.08	-4.25	74.0	19.92	Peak	347.00	150	Horizontal	Pass
2**	2378.200	43.43	-4.25	54.0	10.57	AV	347.00	150	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	2483.500	60.03	-3.78	74.0	13.97	Peak	6.00	150	Horizontal	Pass
1**	2483.500	44.48	-3.78	54.0	9.52	AV	6.00	150	Horizontal	Pass
2	2483.590	60.29	-3.78	74.0	13.71	Peak	338.00	150	Horizontal	Pass
2**	2483.590	44.52	-3.78	54.0	9.48	AV	338.00	150	Horizontal	Pass

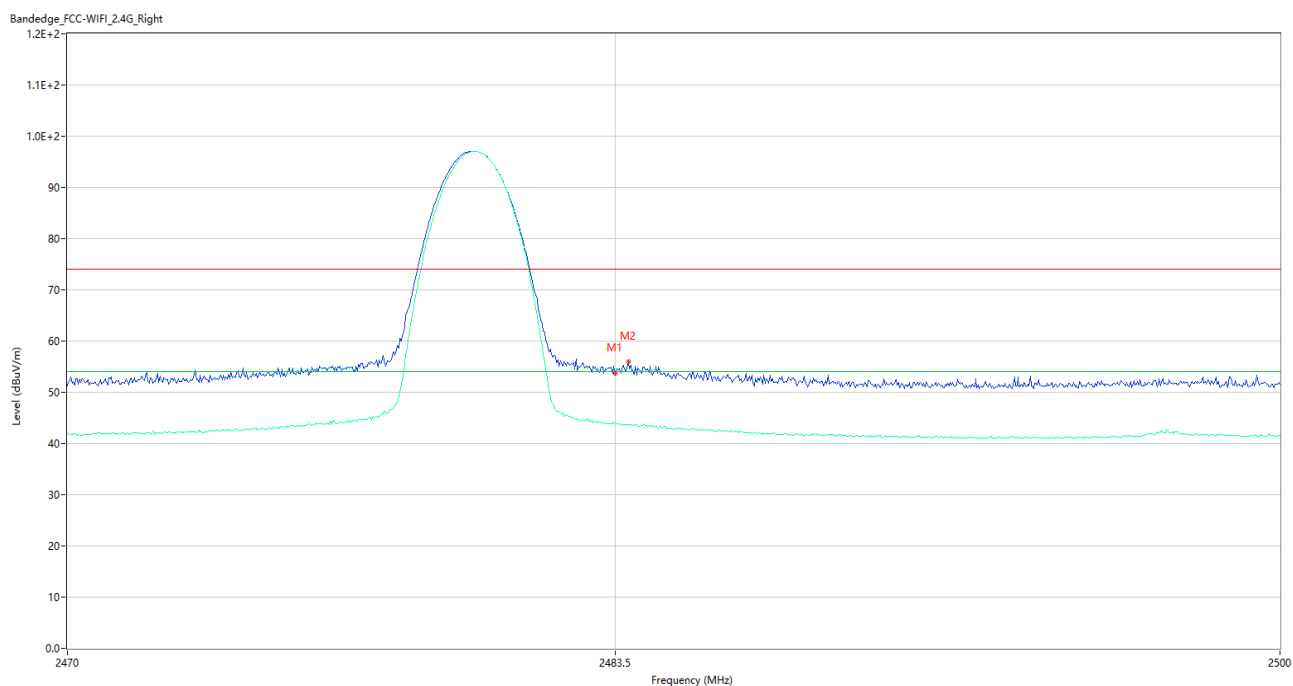
Antenna type: PCB, Gain: 0.8 dBi

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	2390.000	50.88	-4.87	74.0	23.12	Peak	264.05	150	Horizontal	Pass
1**	2390.000	40.54	-4.87	54.0	13.46	AV	264.05	150	Horizontal	Pass
2	2368.700	53.32	-4.15	74.0	20.68	Peak	63.00	150	Horizontal	Pass
2**	2368.700	41.07	-4.15	54.0	12.93	AV	63.00	150	Horizontal	Pass

GFSK (BLE 1Mbps) HIGH CHANNEL



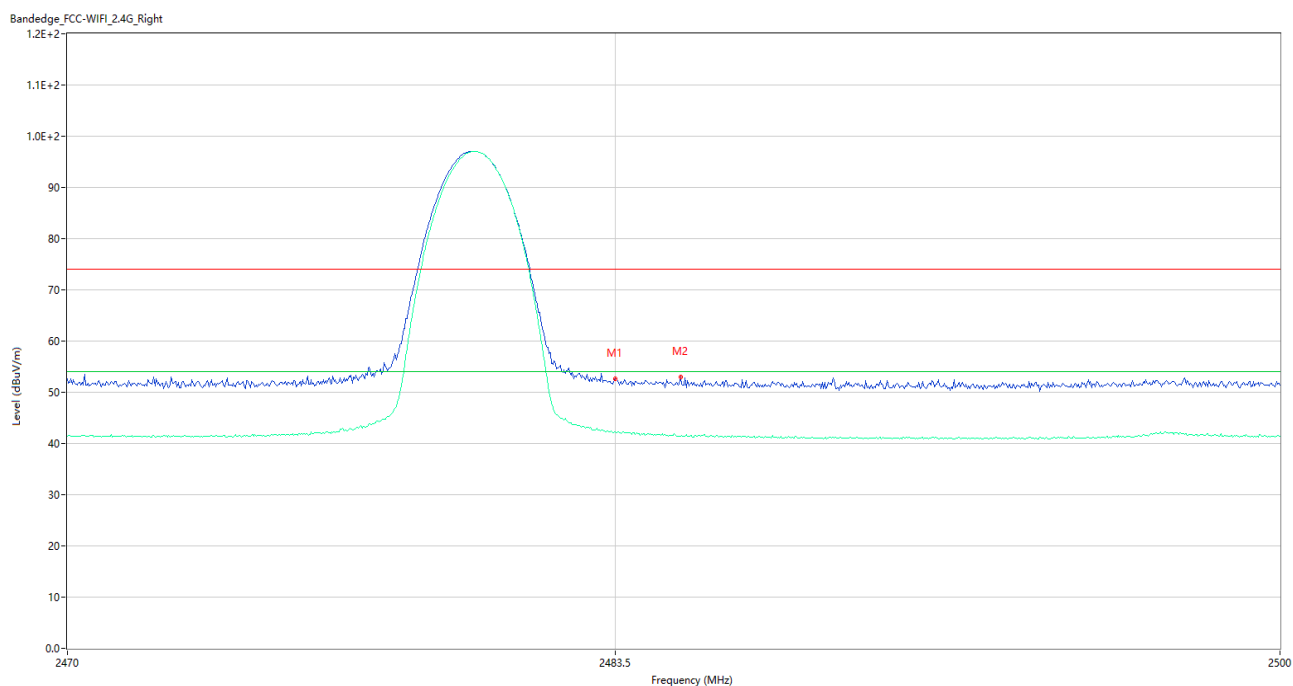
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	53.75	-3.78	74.0	20.25	Peak	74.00	150	Horizontal	Pass
1**	2483.500	43.91	-3.78	54.0	10.09	AV	74.00	150	Horizontal	Pass
2	2483.830	56.01	-3.78	74.0	17.99	Peak	345.00	150	Horizontal	Pass
2**	2483.830	43.63	-3.78	54.0	10.37	AV	345.00	150	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	2390.000	50.61	-4.87	74.0	23.39	Peak	301.89	150	Vertical	Pass
1**	2390.000	40.51	-4.87	54.0	13.49	AV	301.89	150	Vertical	Pass
2	2366.300	52.77	-4.40	74.0	21.23	Peak	357.00	150	Vertical	Pass
2**	2366.300	41.11	-4.40	54.0	12.89	AV	357.00	150	Vertical	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	2483.500	52.59	-3.78	74.0	21.41	Peak	286.00	150	Horizontal	Pass
1**	2483.500	42.26	-3.78	54.0	11.74	AV	286.00	150	Horizontal	Pass
2	2485.120	52.90	-3.78	74.0	21.10	Peak	360.00	150	Horizontal	Pass
2**	2485.120	41.46	-3.78	54.0	12.54	AV	360.00	150	Horizontal	Pass

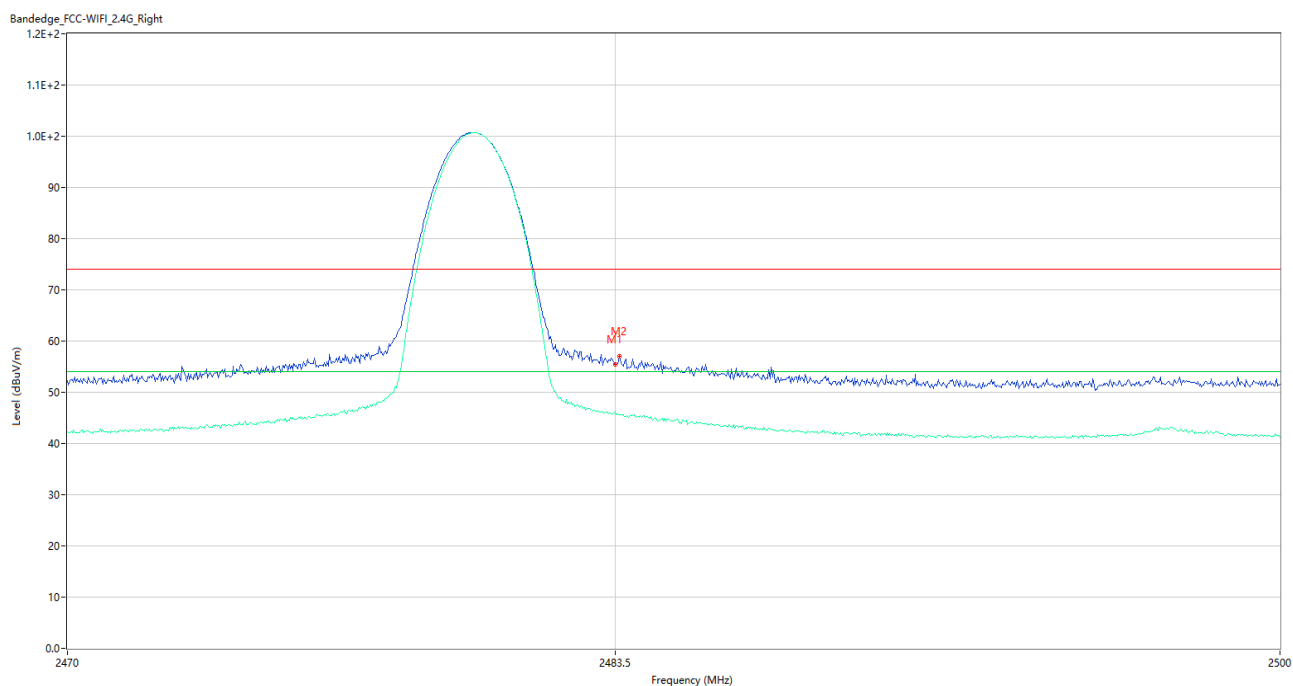
Antenna type: Ceramics, Gain: 1.05 dBi

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	2390.000	51.93	-4.87	74.0	22.07	Peak	360.00	150	Horizontal	Pass
1**	2390.000	40.64	-4.87	54.0	13.36	AV	360.00	150	Horizontal	Pass
2	2369.500	53.03	-4.06	74.0	20.97	Peak	360.00	150	Horizontal	Pass
2**	2369.500	41.21	-4.06	54.0	12.79	AV	360.00	150	Horizontal	Pass

GFSK (BLE 1Mbps) HIGH CHANNEL



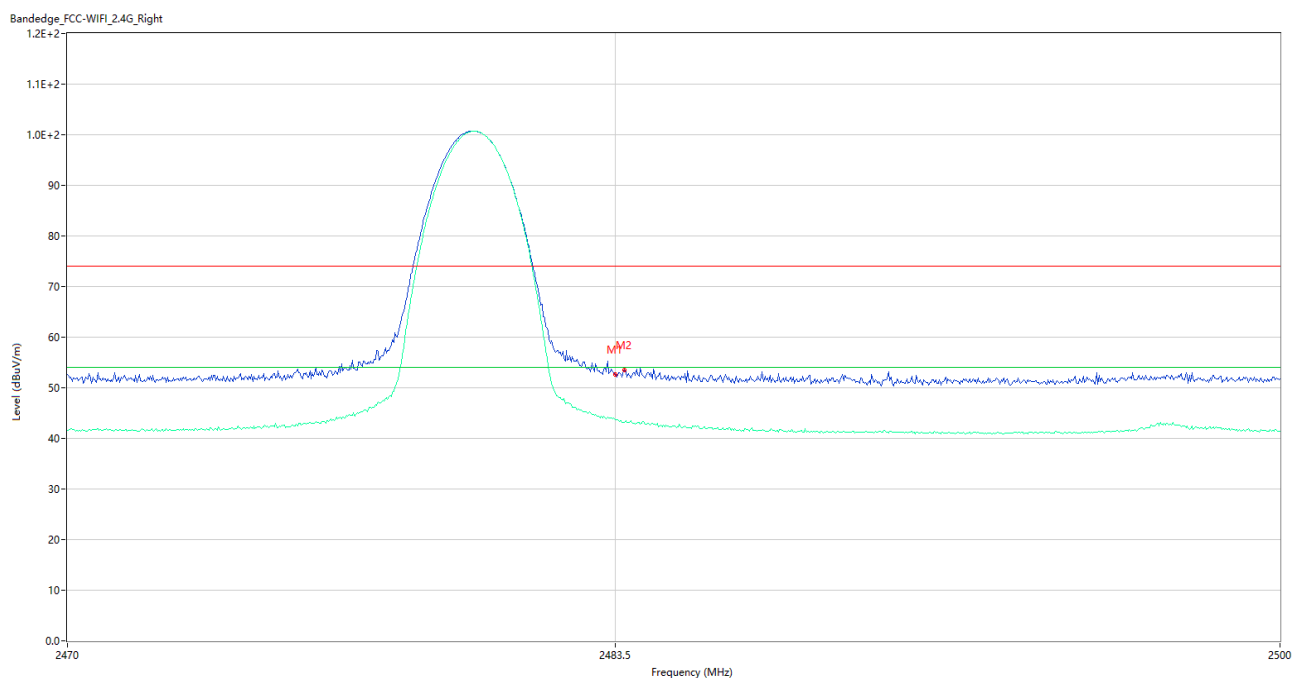
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	55.39	-3.78	74.0	18.61	Peak	250.00	150	Horizontal	Pass
1**	2483.500	46.18	-3.78	54.0	7.82	AV	250.00	150	Horizontal	Pass
2	2483.620	57.00	-3.78	74.0	17.00	Peak	264.00	150	Horizontal	Pass
2**	2483.620	45.63	-3.78	54.0	8.37	AV	264.00	150	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	2390.000	51.19	-4.87	74.0	22.81	Peak	269.88	150	Horizontal	Pass
1**	2390.000	40.67	-4.87	54.0	13.33	AV	269.88	150	Horizontal	Pass
2	2378.300	52.78	-4.25	74.0	21.22	Peak	354.00	150	Horizontal	Pass
2**	2378.300	41.70	-4.25	54.0	12.30	AV	354.00	150	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	2483.500	52.71	-3.78	74.0	21.29	Peak	272.00	150	Horizontal	Pass
1**	2483.500	43.68	-3.78	54.0	10.32	AV	272.00	150	Horizontal	Pass
2	2483.740	53.47	-3.78	74.0	20.53	Peak	253.00	150	Horizontal	Pass
2**	2483.740	43.22	-3.78	54.0	10.78	AV	253.00	150	Horizontal	Pass

A.8 Power Spectral Density (PSD)

Test Data

GFSK (BLE 1Mbps)			
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	2.14	8	Pass
Middle	2.49	8	Pass
High	2.46	8	Pass

GFSK (BLE 2Mbps)			
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	2.36	8	Pass
Middle	2.22	8	Pass
High	2.50	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-SH2530192-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH2530192-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH2530192-AI.PDF”.

Statement

1. The Testing Center guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
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6. Any objection shall be raised to the Testing Center within 30 days after receiving the report.

--END OF REPORT--