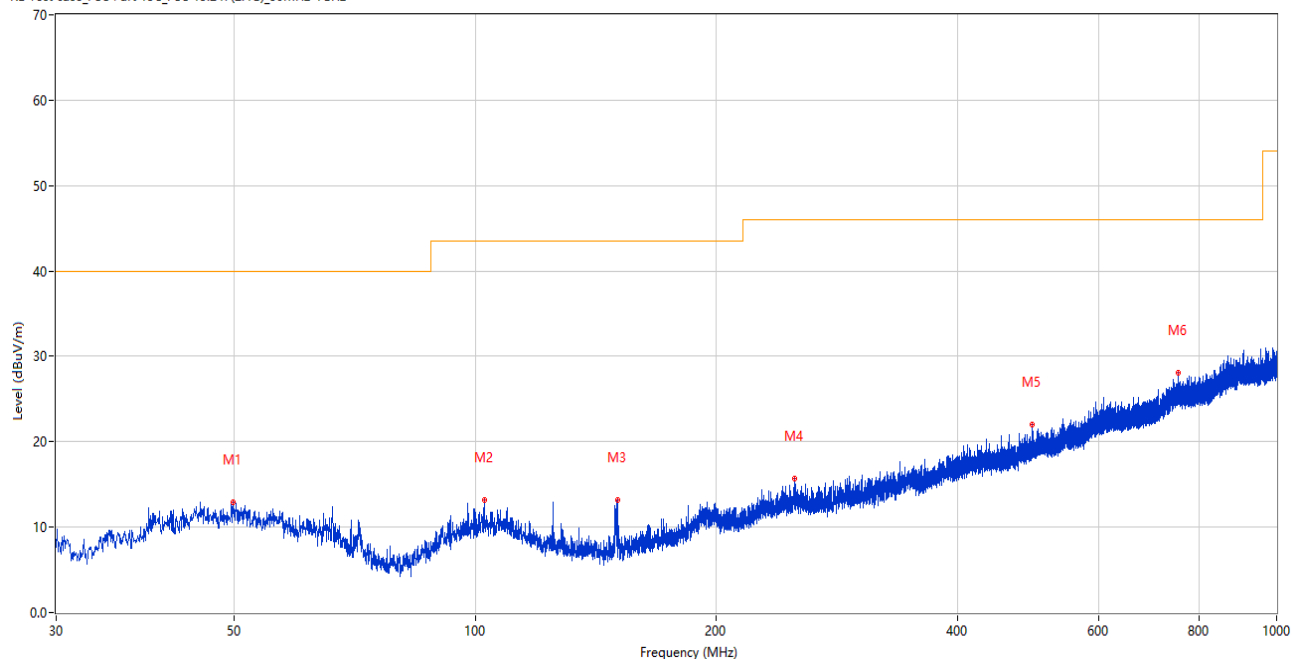


Antenna type: PCB, Gain: 2.2 dBi

30 MHz to 1 GHz, ANT H

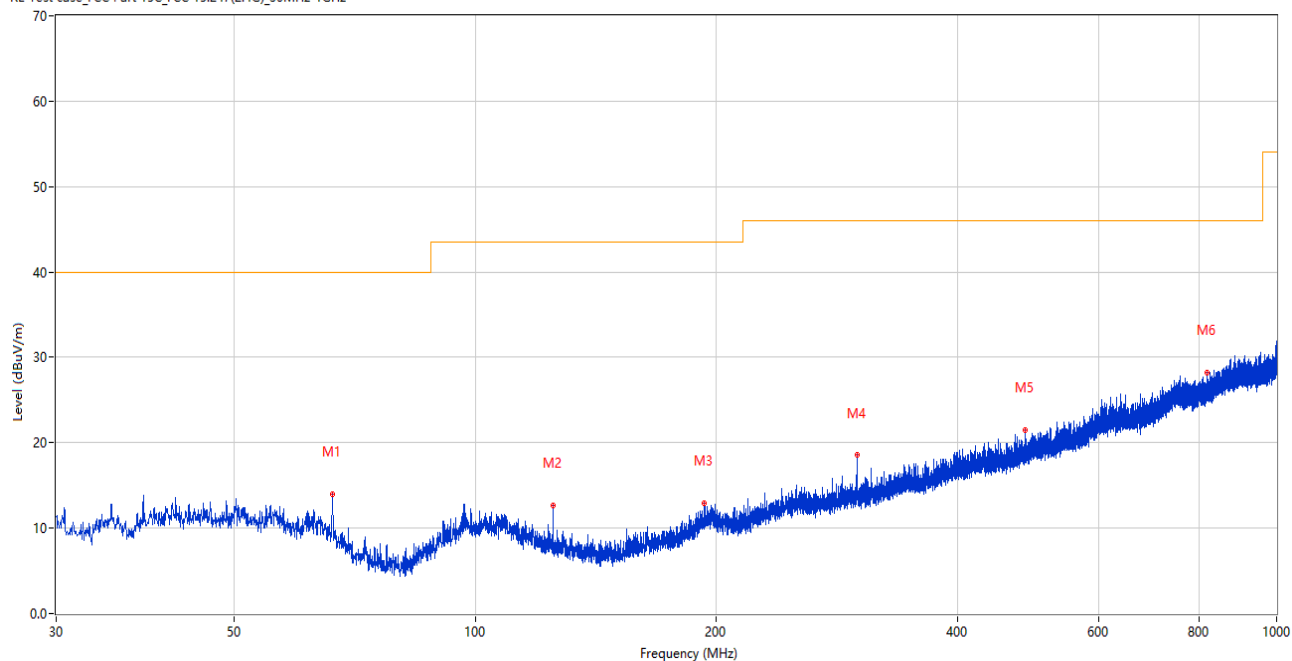
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	49.837	12.95	-24.52	40.0	27.05	Peak	90.00	200	Horizontal	Pass
2	102.604	13.19	-26.11	43.5	30.31	Peak	56.00	100	Horizontal	Pass
3	150.474	13.14	-29.52	43.5	30.36	Peak	175.00	100	Horizontal	Pass
4	250.675	15.72	-24.05	46.0	30.28	Peak	359.00	200	Horizontal	Pass
5	495.018	21.99	-18.19	46.0	24.01	Peak	332.00	200	Horizontal	Pass
6	753.426	28.03	-12.00	46.0	17.97	Peak	350.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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

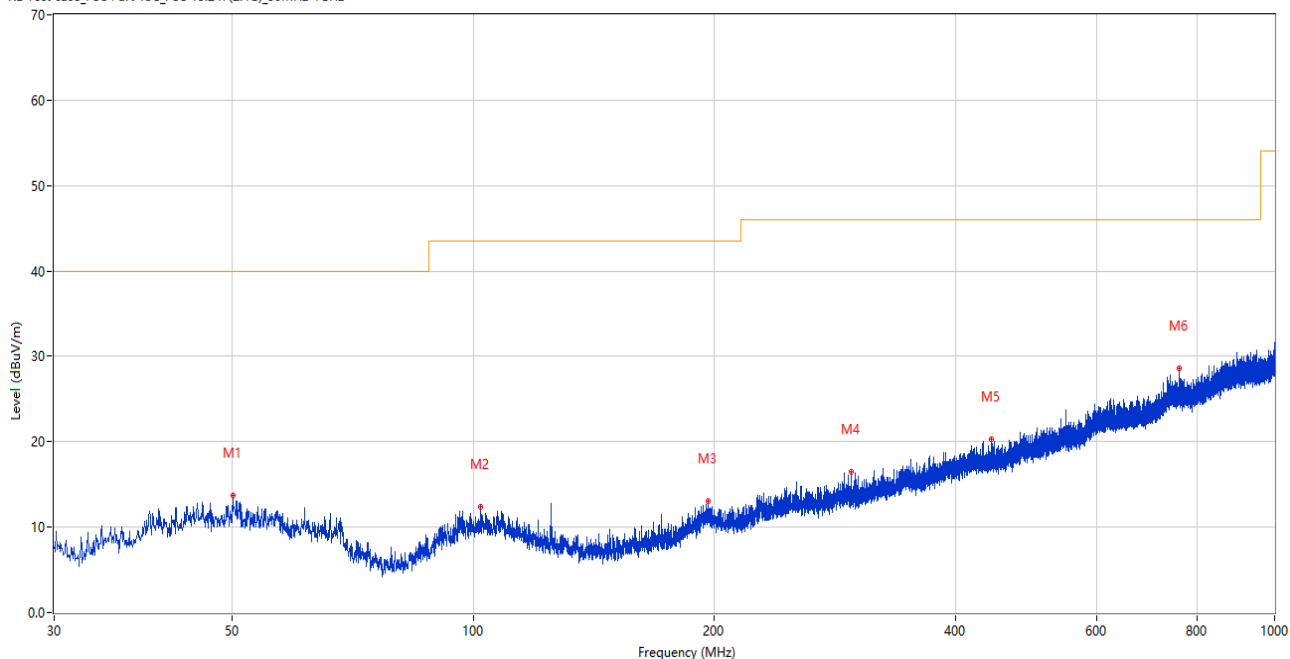


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	66.326	13.93	-27.78	40.0	26.07	Peak	349.00	200	Vertical	Pass
2	125.011	12.65	-28.74	43.5	30.85	Peak	29.00	100	Vertical	Pass
3	192.960	12.89	-25.87	43.5	30.61	Peak	84.00	100	Vertical	Pass
4	299.709	18.53	-23.23	46.0	27.47	Peak	246.00	200	Vertical	Pass
5	486.191	21.46	-18.48	46.0	24.54	Peak	36.00	100	Vertical	Pass
6	818.756	28.25	-11.35	46.0	17.75	Peak	349.00	200	Vertical	Pass

Antenna type: Dipole, Gain: 2.29 dBi

30 MHz to 1 GHz, ANT H

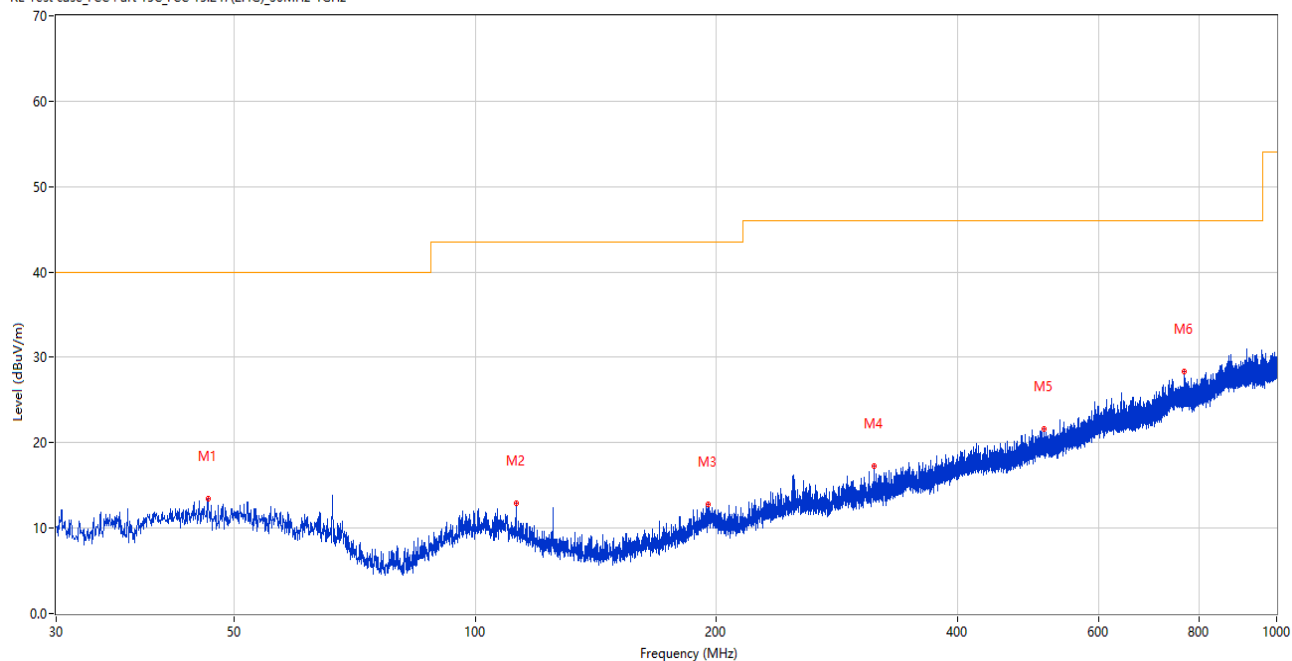
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	50.127	13.66	-24.51	40.0	26.34	Peak	99.00	200	Horizontal	Pass
2	102.168	12.41	-26.09	43.5	31.09	Peak	267.00	100	Horizontal	Pass
3	196.306	13.10	-25.51	43.5	30.40	Peak	360.00	200	Horizontal	Pass
4	295.974	16.42	-23.25	46.0	29.58	Peak	214.00	200	Horizontal	Pass
5	442.590	20.25	-19.57	46.0	25.75	Peak	0.00	100	Horizontal	Pass
6	760.750	28.63	-11.97	46.0	17.37	Peak	360.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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



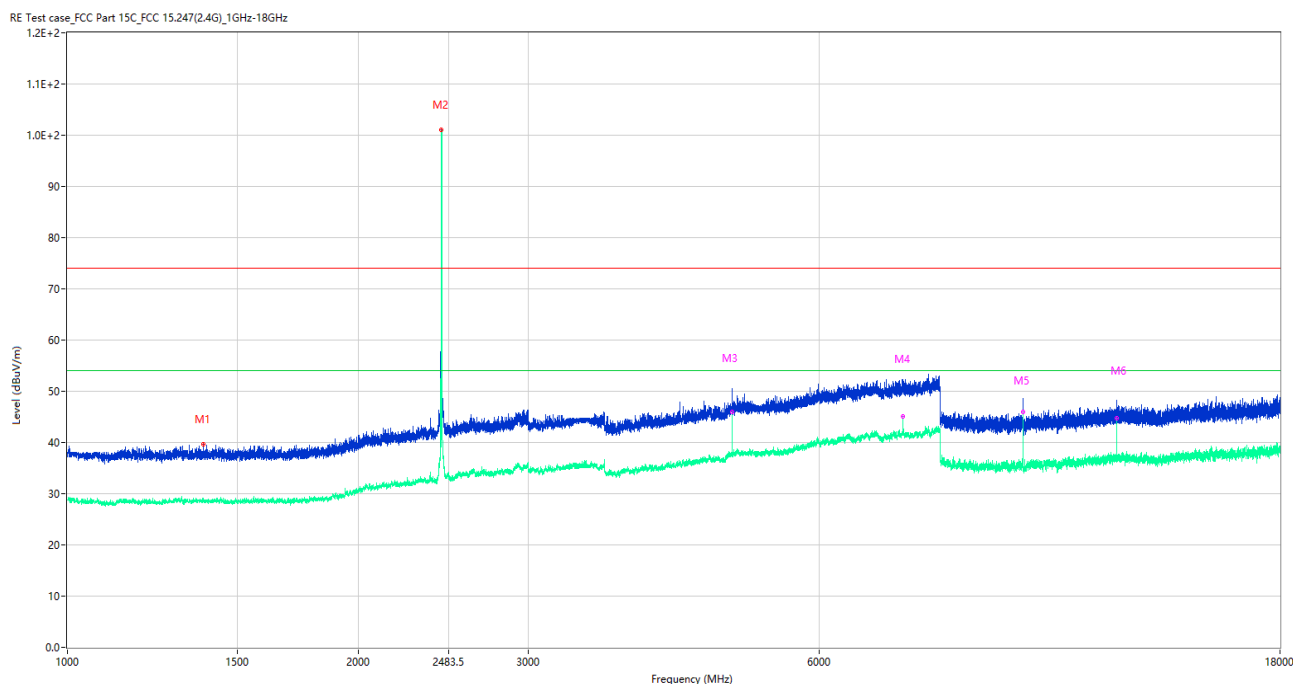
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	46.393	13.48	-24.57	40.0	26.52	Peak	215.00	200	Vertical	Pass
2	112.401	12.88	-26.89	43.5	30.62	Peak	17.00	200	Vertical	Pass
3	195.094	12.78	-25.59	43.5	30.72	Peak	1.00	200	Vertical	Pass
4	314.453	17.25	-23.01	46.0	28.75	Peak	1.00	100	Vertical	Pass
5	512.575	21.67	-17.73	46.0	24.33	Peak	321.00	100	Vertical	Pass
6	766.424	28.39	-11.95	46.0	17.61	Peak	121.00	100	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: Ceramics, Gain: 1.05 dBi

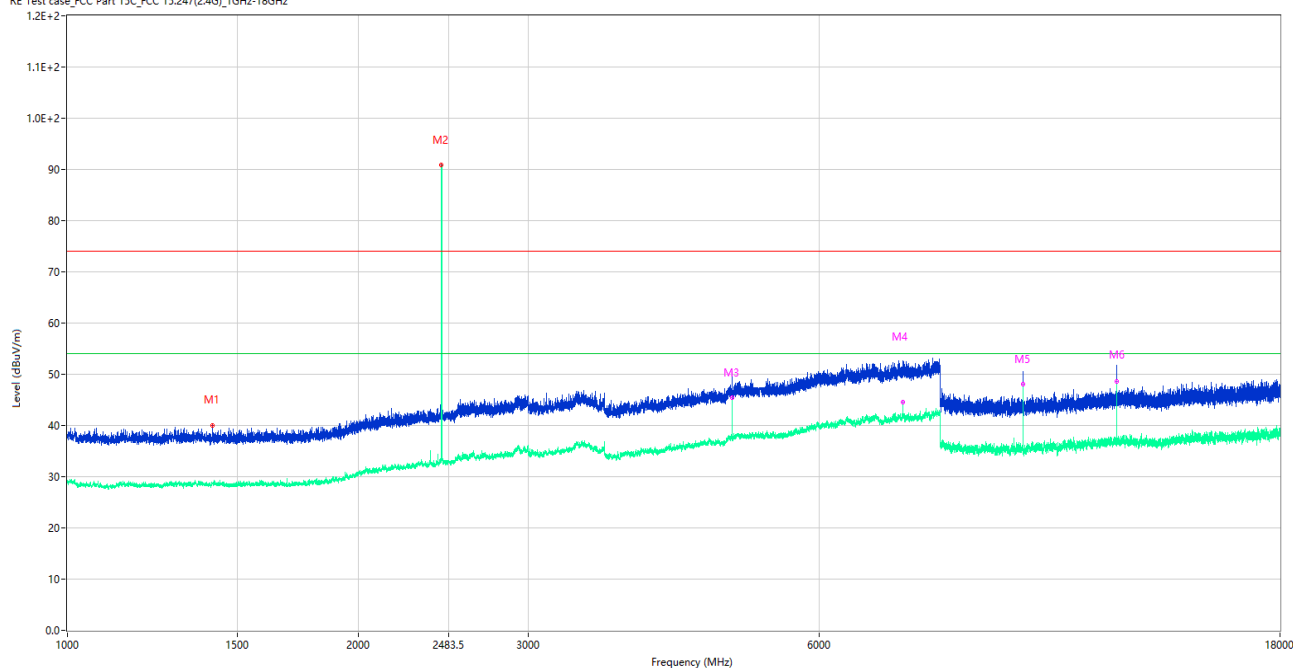
GFSK (BLE 1Mbps) MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1383.500	39.57	-15.97	74.0	34.43	Peak	249.00	150	Horizontal	Pass
1**	1383.500	28.94	-15.97	54.0	25.06	AV	249.00	150	Horizontal	Pass
2	2440.000	101.04	-12.37	74.0	-27.04	Peak	152.00	150	Horizontal	N/A
2**	2440.000	100.34	-12.37	54.0	-46.34	AV	152.00	150	Horizontal	N/A
3	4880.500	48.71	-2.29	74.0	25.29	Peak	169.00	150	Horizontal	Pass
3**	4880.500	45.93	-2.29	54.0	8.07	AV	169.00	150	Horizontal	Pass
4	7320.500	50.92	0.72	74.0	23.08	Peak	229.00	150	Horizontal	Pass
4**	7320.500	45.13	0.72	54.0	8.87	AV	229.00	150	Horizontal	Pass
5	9760.500	47.72	-3.63	74.0	26.28	Peak	235.00	150	Horizontal	Pass
5**	9760.500	45.98	-3.63	54.0	8.02	AV	235.00	150	Horizontal	Pass
6	12200.500	48.06	-2.77	74.0	25.94	Peak	1.00	150	Horizontal	Pass
6**	12200.500	44.73	-2.77	54.0	9.27	AV	1.00	150	Horizontal	Pass

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

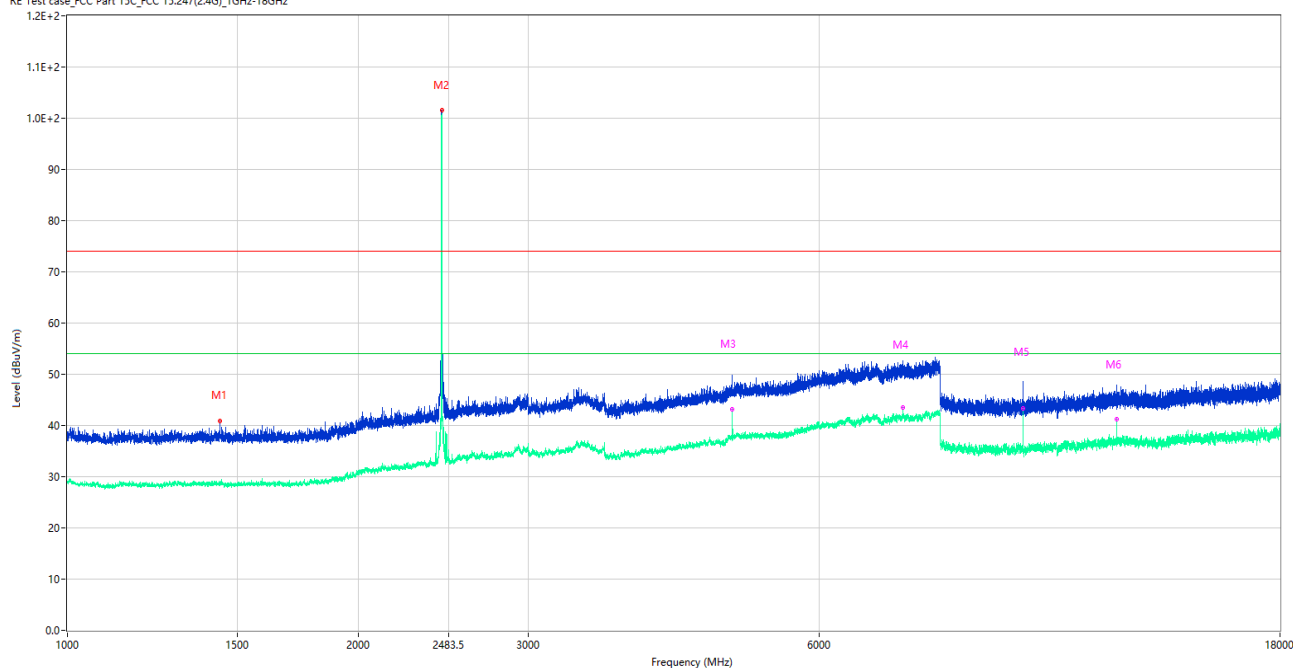
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1413.250	40.05	-15.94	74.0	33.95	Peak	359.00	150	Vertical	Pass
1**	1413.250	28.64	-15.94	54.0	25.36	AV	359.00	150	Vertical	Pass
2	2440.000	90.85	-12.37	74.0	-16.85	Peak	119.00	150	Vertical	N/A
2**	2440.000	90.12	-12.37	54.0	-36.12	AV	119.00	150	Vertical	N/A
3	4880.500	49.40	-2.29	74.0	24.60	Peak	280.00	150	Vertical	Pass
3**	4880.500	45.49	-2.29	54.0	8.51	AV	280.00	150	Vertical	Pass
4	7320.500	51.39	0.72	74.0	22.61	Peak	240.00	150	Vertical	Pass
4**	7320.500	44.60	0.72	54.0	9.40	AV	240.00	150	Vertical	Pass
5	9760.500	49.31	-3.63	74.0	24.69	Peak	69.00	150	Vertical	Pass
5**	9760.500	48.00	-3.63	54.0	6.00	AV	69.00	150	Vertical	Pass
6	12200.500	50.65	-2.77	74.0	23.35	Peak	360.00	150	Vertical	Pass
6**	12200.500	48.51	-2.77	54.0	5.49	AV	360.00	150	Vertical	Pass

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

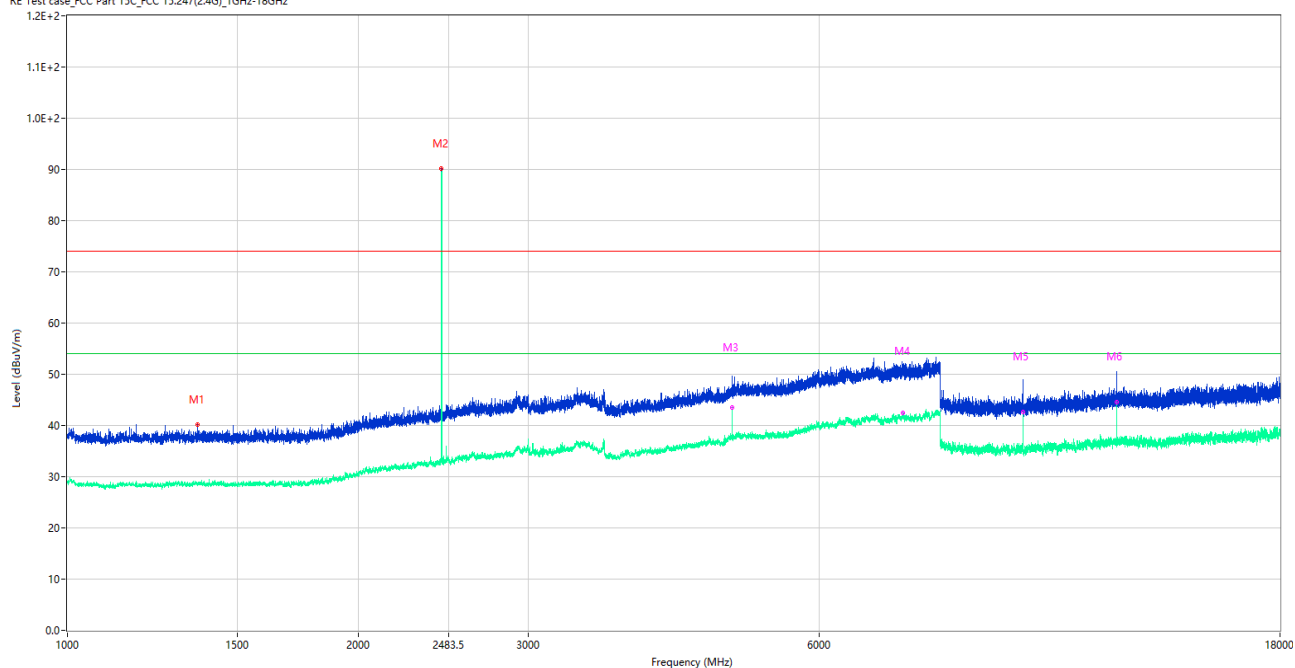
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1439.250	40.93	-15.97	74.0	33.07	Peak	210.00	150	Horizontal	Pass
1**	1439.250	28.66	-15.97	54.0	25.34	AV	210.00	150	Horizontal	Pass
2	2440.250	101.49	-12.37	74.0	-27.49	Peak	149.00	150	Horizontal	N/A
2**	2440.250	100.90	-12.37	54.0	-46.90	AV	149.00	150	Horizontal	N/A
3	4880.500	48.93	-2.29	74.0	25.07	Peak	139.00	150	Horizontal	Pass
3**	4880.500	43.20	-2.29	54.0	10.80	AV	139.00	150	Horizontal	Pass
4	7320.000	49.97	0.73	74.0	24.03	Peak	2.00	150	Horizontal	Pass
4**	7320.000	43.51	0.73	54.0	10.49	AV	2.00	150	Horizontal	Pass
5	9761.500	46.06	-3.56	74.0	27.94	Peak	359.00	150	Horizontal	Pass
5**	9761.500	43.37	-3.56	54.0	10.63	AV	359.00	150	Horizontal	Pass
6	12199.500	45.48	-2.81	74.0	28.52	Peak	359.00	150	Horizontal	Pass
6**	12199.500	41.24	-2.81	54.0	12.76	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

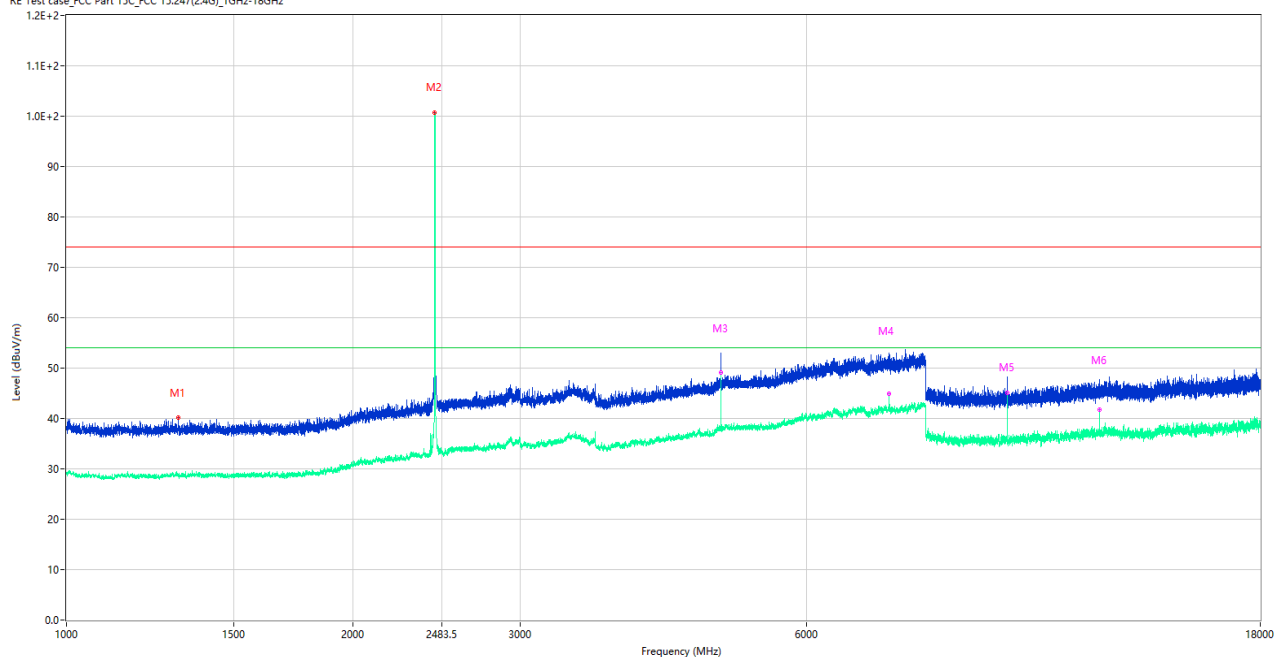


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1365.000	40.13	-15.85	74.0	33.87	Peak	113.00	150	Vertical	Pass
1**	1365.000	28.71	-15.85	54.0	25.29	AV	113.00	150	Vertical	Pass
2	2439.750	90.13	-12.37	74.0	-16.13	Peak	118.00	150	Vertical	N/A
2**	2439.750	86.25	-12.37	54.0	-32.25	AV	118.00	150	Vertical	N/A
3	4880.500	48.70	-2.29	74.0	25.30	Peak	141.00	150	Vertical	Pass
3**	4880.500	43.43	-2.29	54.0	10.57	AV	141.00	150	Vertical	Pass
4	7320.000	50.94	0.73	74.0	23.06	Peak	309.00	150	Vertical	Pass
4**	7320.000	42.53	0.73	54.0	11.47	AV	309.00	150	Vertical	Pass
5	9761.500	45.54	-3.56	74.0	28.46	Peak	235.00	150	Vertical	Pass
5**	9761.500	42.49	-3.56	54.0	11.51	AV	235.00	150	Vertical	Pass
6	12199.500	48.72	-2.81	74.0	25.28	Peak	0.00	150	Vertical	Pass
6**	12199.500	44.56	-2.81	54.0	9.44	AV	0.00	150	Vertical	Pass

Antenna type: PCB, Gain: 0.8 dBi

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

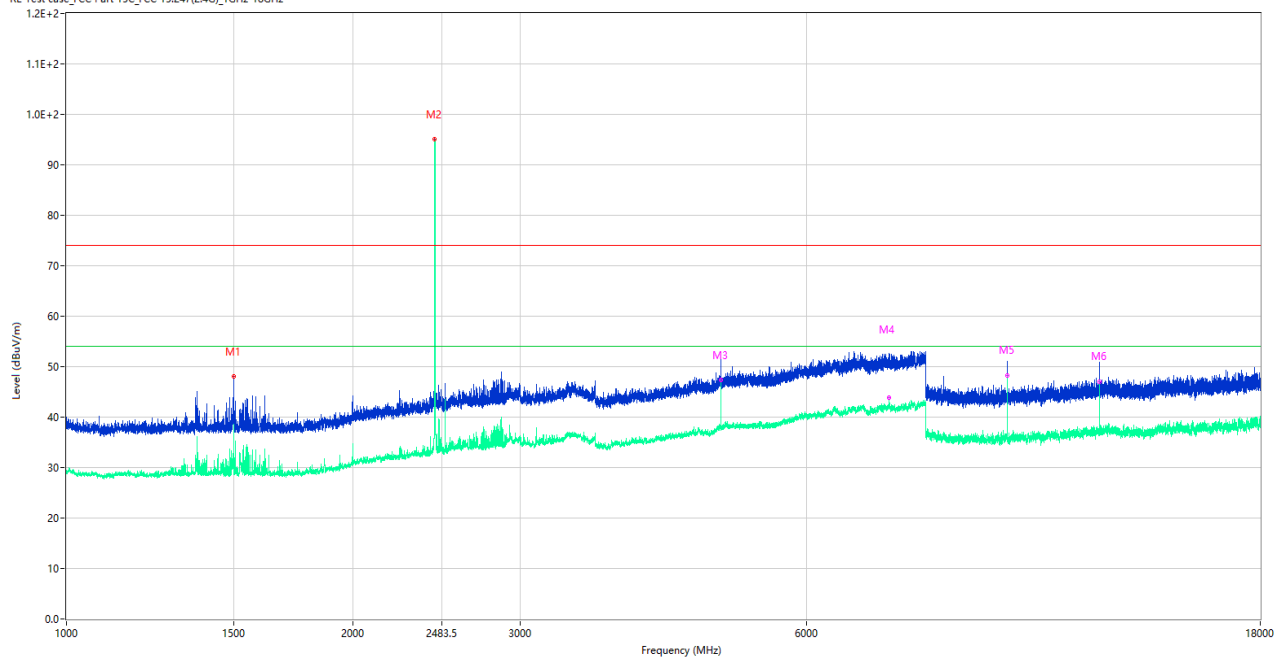
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1311.750	40.15	-15.80	74.0	33.85	Peak	23.00	150	Horizontal	Pass
1**	1311.750	28.77	-15.80	54.0	25.23	AV	23.00	150	Horizontal	Pass
2	2440.000	100.74	-12.37	74.0	-26.74	Peak	51.00	150	Horizontal	N/A
2**	2440.000	100.02	-12.37	54.0	-46.02	AV	51.00	150	Horizontal	N/A
3	4880.500	51.64	-2.29	74.0	22.36	Peak	149.00	150	Horizontal	Pass
3**	4880.500	49.08	-2.29	54.0	4.92	AV	149.00	150	Horizontal	Pass
4	7320.500	51.24	0.72	74.0	22.76	Peak	317.00	150	Horizontal	Pass
4**	7320.500	44.98	0.72	54.0	9.02	AV	317.00	150	Horizontal	Pass
5	9760.500	47.90	-3.63	74.0	26.10	Peak	234.00	150	Horizontal	Pass
5**	9760.500	45.01	-3.63	54.0	8.99	AV	234.00	150	Horizontal	Pass
6	12200.500	46.90	-2.77	74.0	27.10	Peak	205.00	150	Horizontal	Pass
6**	12200.500	41.83	-2.77	54.0	12.17	AV	205.00	150	Horizontal	Pass

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

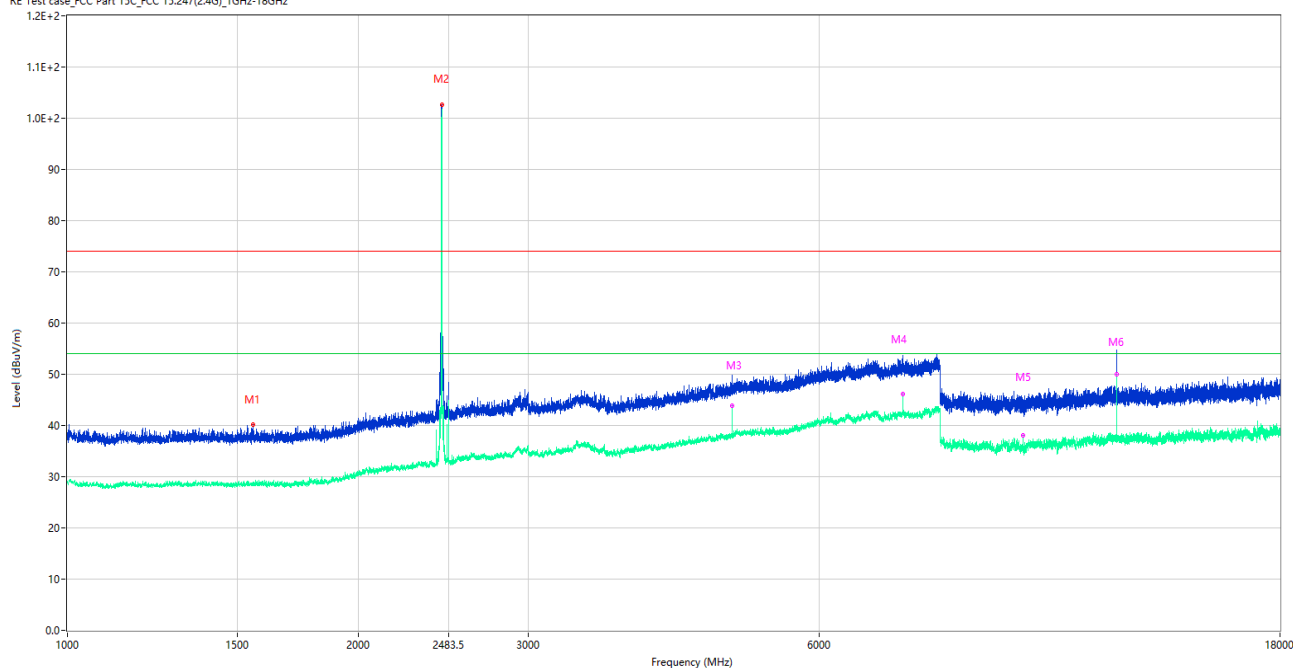
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1499.750	48.15	-16.14	74.0	25.85	Peak	281.00	150	Vertical	Pass
1**	1499.750	38.58	-16.14	54.0	15.42	AV	281.00	150	Vertical	Pass
2	2440.000	95.02	-12.37	74.0	-21.02	Peak	138.00	150	Vertical	N/A
2**	2440.000	94.28	-12.37	54.0	-40.28	AV	138.00	150	Vertical	N/A
3	4880.500	51.21	-2.29	74.0	22.79	Peak	263.00	150	Vertical	Pass
3**	4880.500	47.40	-2.29	54.0	6.60	AV	263.00	150	Vertical	Pass
4	7320.500	51.44	0.72	74.0	22.56	Peak	75.00	150	Vertical	Pass
4**	7320.500	43.94	0.72	54.0	10.06	AV	75.00	150	Vertical	Pass
5	9760.500	50.43	-3.63	74.0	23.57	Peak	38.00	150	Vertical	Pass
5**	9760.500	48.19	-3.63	54.0	5.81	AV	38.00	150	Vertical	Pass
6	12200.500	50.81	-2.77	74.0	23.19	Peak	184.00	150	Vertical	Pass
6**	12200.500	47.08	-2.77	54.0	6.92	AV	184.00	150	Vertical	Pass

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

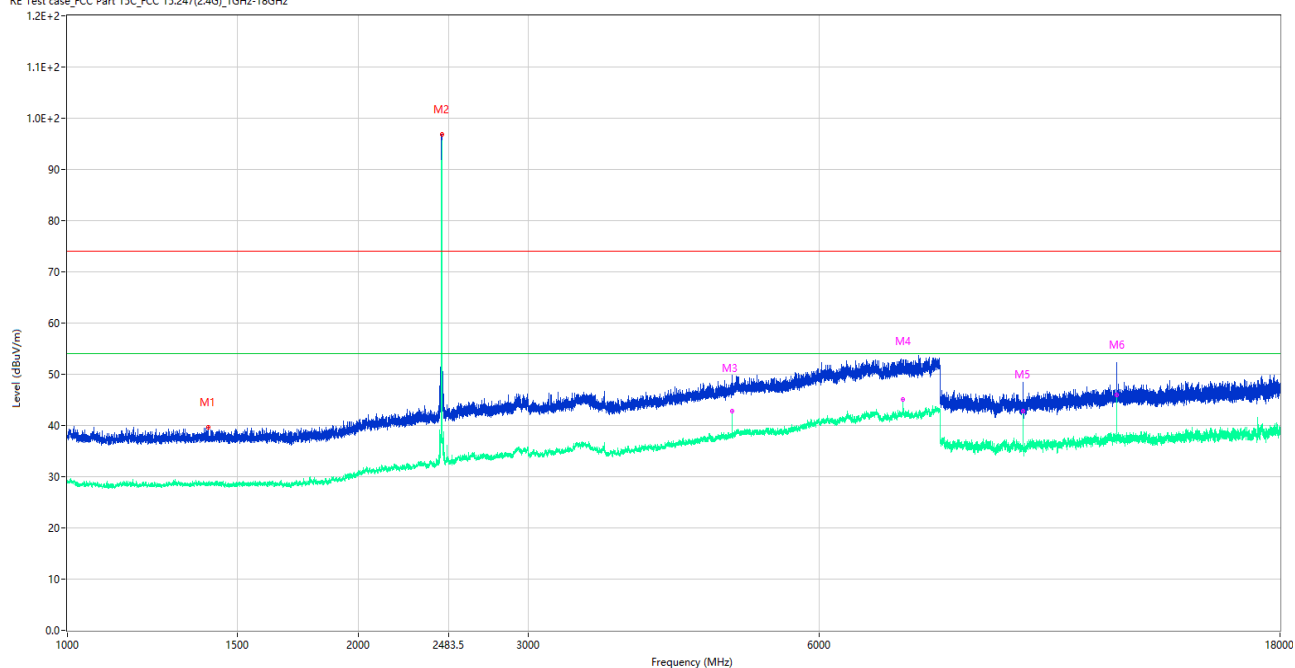
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1556.250	40.10	-16.00	74.0	33.90	Peak	360.00	150	Horizontal	Pass
1**	1556.250	28.45	-16.00	54.0	25.55	AV	360.00	150	Horizontal	Pass
2	2440.250	102.65	-12.37	74.0	-28.65	Peak	334.00	150	Horizontal	N/A
2**	2440.250	101.79	-12.37	54.0	-47.79	AV	334.00	150	Horizontal	N/A
3	4880.500	49.15	-2.29	74.0	24.85	Peak	121.00	150	Horizontal	Pass
3**	4880.500	43.81	-2.29	54.0	10.19	AV	121.00	150	Horizontal	Pass
4	7320.500	53.04	0.72	74.0	20.96	Peak	181.00	150	Horizontal	Pass
4**	7320.500	46.15	0.72	54.0	7.85	AV	181.00	150	Horizontal	Pass
5	9761.000	44.06	-3.58	74.0	29.94	Peak	294.00	150	Horizontal	Pass
5**	9761.000	38.07	-3.58	54.0	15.93	AV	294.00	150	Horizontal	Pass
6	12201.000	54.13	-2.75	74.0	19.87	Peak	207.00	150	Horizontal	Pass
6**	12201.000	50.09	-2.75	54.0	3.91	AV	207.00	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

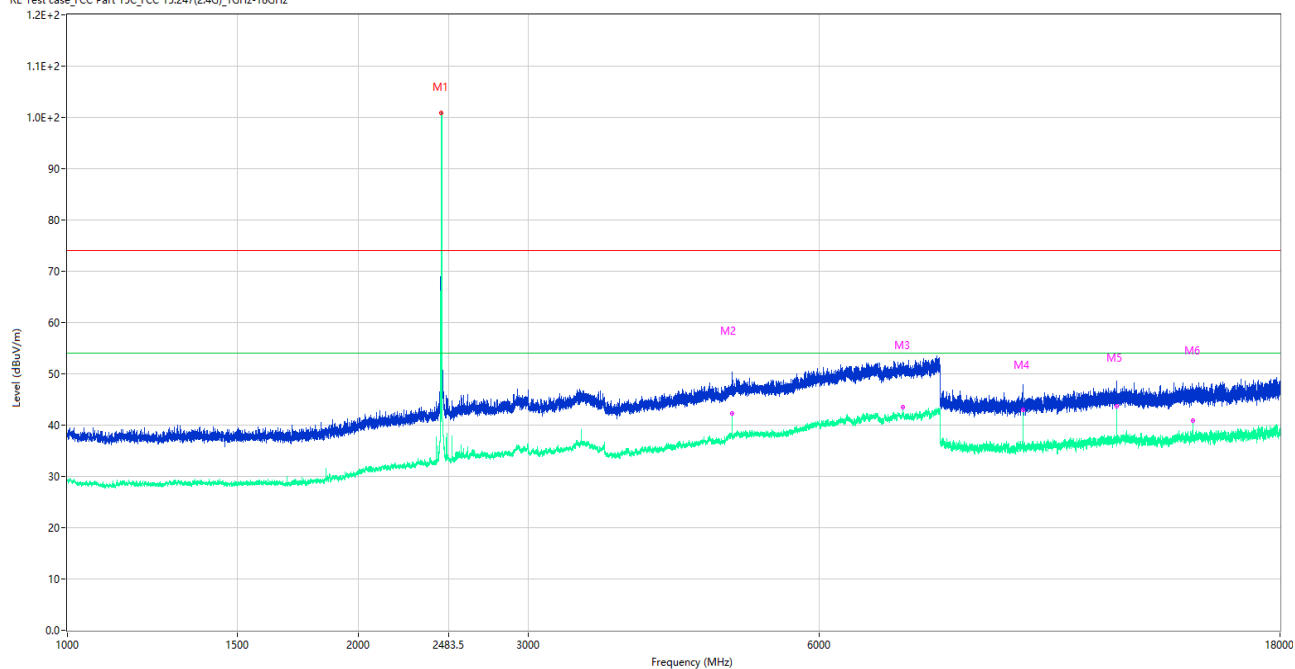


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1399.250	39.58	-15.99	74.0	34.42	Peak	0.00	150	Vertical	Pass
1**	1399.250	28.46	-15.99	54.0	25.54	AV	0.00	150	Vertical	Pass
2	2440.250	96.81	-12.37	74.0	-22.81	Peak	170.00	150	Vertical	N/A
2**	2440.250	92.22	-12.37	54.0	-38.22	AV	170.00	150	Vertical	N/A
3	4880.500	49.86	-2.29	74.0	24.14	Peak	172.00	150	Vertical	Pass
3**	4880.500	42.82	-2.29	54.0	11.18	AV	172.00	150	Vertical	Pass
4	7320.500	51.57	0.72	74.0	22.43	Peak	27.00	150	Vertical	Pass
4**	7320.500	45.07	0.72	54.0	8.93	AV	27.00	150	Vertical	Pass
5	9761.000	46.83	-3.58	74.0	27.17	Peak	182.00	150	Vertical	Pass
5**	9761.000	42.79	-3.58	54.0	11.21	AV	182.00	150	Vertical	Pass
6	12199.999	51.29	-2.81	74.0	22.71	Peak	39.00	150	Vertical	Pass
6**	12199.999	45.99	-2.81	54.0	8.01	AV	39.00	150	Vertical	Pass

Antenna type: PCB, Gain: 3.3 dBi

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

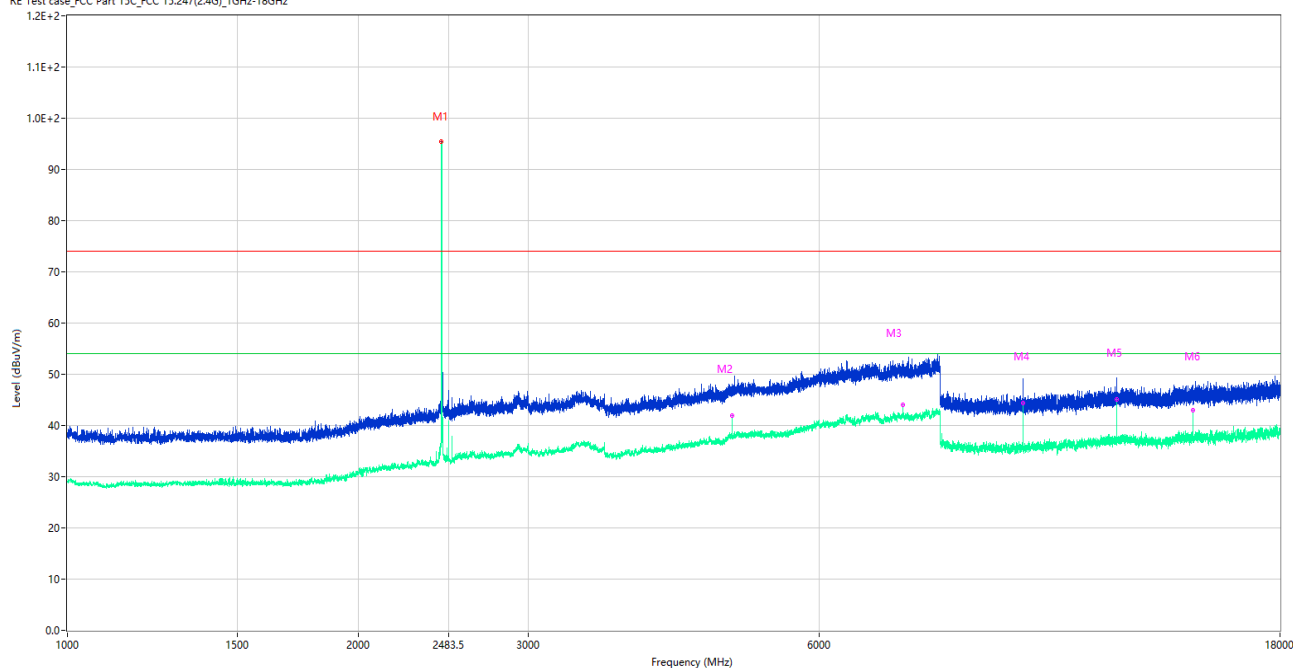
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2440.000	100.95	-12.37	74.0	-26.95	Peak	36.00	150	Horizontal	N/A
1**	2440.000	100.20	-12.37	54.0	-46.20	AV	36.00	150	Horizontal	N/A
2	4880.500	48.05	-2.29	74.0	25.95	Peak	192.00	150	Horizontal	Pass
2**	4880.500	42.21	-2.29	54.0	11.79	AV	192.00	150	Horizontal	Pass
3	7320.500	50.70	0.72	74.0	23.30	Peak	173.00	150	Horizontal	Pass
3**	7320.500	43.57	0.72	54.0	10.43	AV	173.00	150	Horizontal	Pass
4	9760.500	46.91	-3.63	74.0	27.09	Peak	0.00	150	Horizontal	Pass
4**	9760.500	42.96	-3.63	54.0	11.04	AV	0.00	150	Horizontal	Pass
5	12200.500	47.68	-2.77	74.0	26.32	Peak	0.00	150	Horizontal	Pass
5**	12200.500	43.66	-2.77	54.0	10.34	AV	0.00	150	Horizontal	Pass
6	14640.500	47.33	-2.37	74.0	26.67	Peak	182.00	150	Horizontal	Pass
6**	14640.500	40.96	-2.37	54.0	13.04	AV	182.00	150	Horizontal	Pass

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

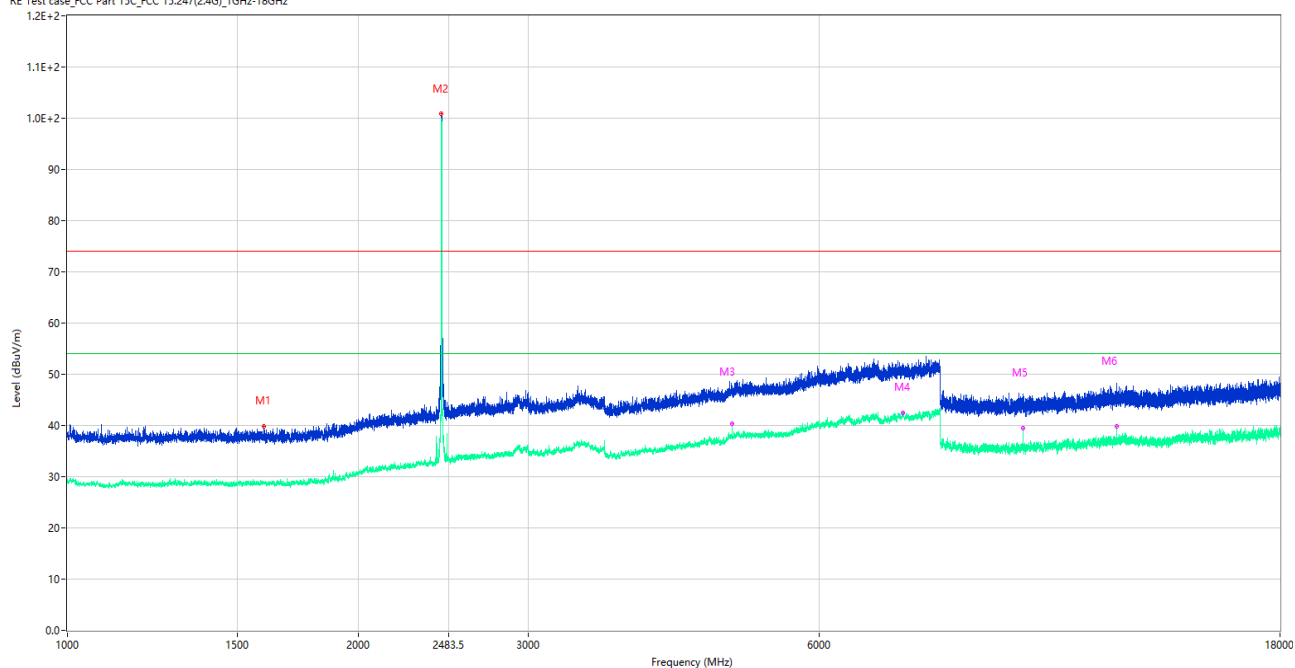
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2440.000	95.40	-12.37	74.0	-21.40	Peak	123.00	150	Vertical	N/A
1**	2440.000	94.64	-12.37	54.0	-40.64	AV	123.00	150	Vertical	N/A
2	4880.500	47.60	-2.29	74.0	26.40	Peak	265.00	150	Vertical	Pass
2**	4880.500	41.95	-2.29	54.0	12.05	AV	265.00	150	Vertical	Pass
3	7320.500	50.68	0.72	74.0	23.32	Peak	217.00	150	Vertical	Pass
3**	7320.500	44.07	0.72	54.0	9.93	AV	217.00	150	Vertical	Pass
4	9760.500	48.13	-3.63	74.0	25.87	Peak	1.00	150	Vertical	Pass
4**	9760.500	44.40	-3.63	54.0	9.60	AV	1.00	150	Vertical	Pass
5	12200.500	48.14	-2.77	74.0	25.86	Peak	9.00	150	Vertical	Pass
5**	12200.500	45.03	-2.77	54.0	8.97	AV	9.00	150	Vertical	Pass
6	14640.500	46.86	-2.37	74.0	27.14	Peak	88.00	150	Vertical	Pass
6**	14640.500	43.04	-2.37	54.0	10.96	AV	88.00	150	Vertical	Pass

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

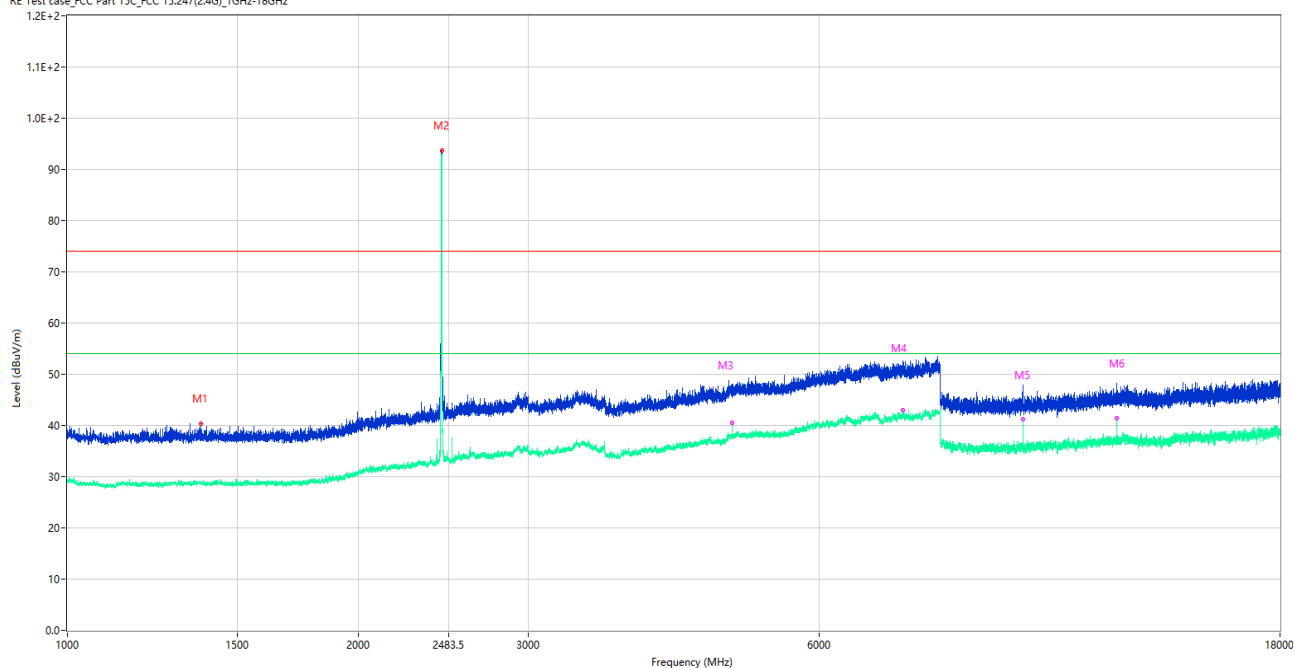
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1598.500	39.86	-16.22	74.0	34.14	Peak	360.00	150	Horizontal	Pass
1**	1598.500	28.70	-16.22	54.0	25.30	AV	360.00	150	Horizontal	Pass
2	2439.750	100.85	-12.37	74.0	-26.85	Peak	36.00	150	Horizontal	N/A
2**	2439.750	97.97	-12.37	54.0	-43.97	AV	36.00	150	Horizontal	N/A
3	4880.500	46.86	-2.29	74.0	27.14	Peak	359.00	150	Horizontal	Pass
3**	4880.500	40.42	-2.29	54.0	13.58	AV	359.00	150	Horizontal	Pass
4	7320.000	50.60	0.73	74.0	23.40	Peak	0.00	150	Horizontal	Pass
4**	7320.000	42.53	0.73	54.0	11.47	AV	0.00	150	Horizontal	Pass
5	9759.500	45.08	-3.74	74.0	28.92	Peak	0.00	150	Horizontal	Pass
5**	9759.500	39.55	-3.74	54.0	14.45	AV	0.00	150	Horizontal	Pass
6	12199.000	48.22	-2.81	74.0	25.78	Peak	0.00	150	Horizontal	Pass
6**	12199.000	39.86	-2.81	54.0	14.14	AV	0.00	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

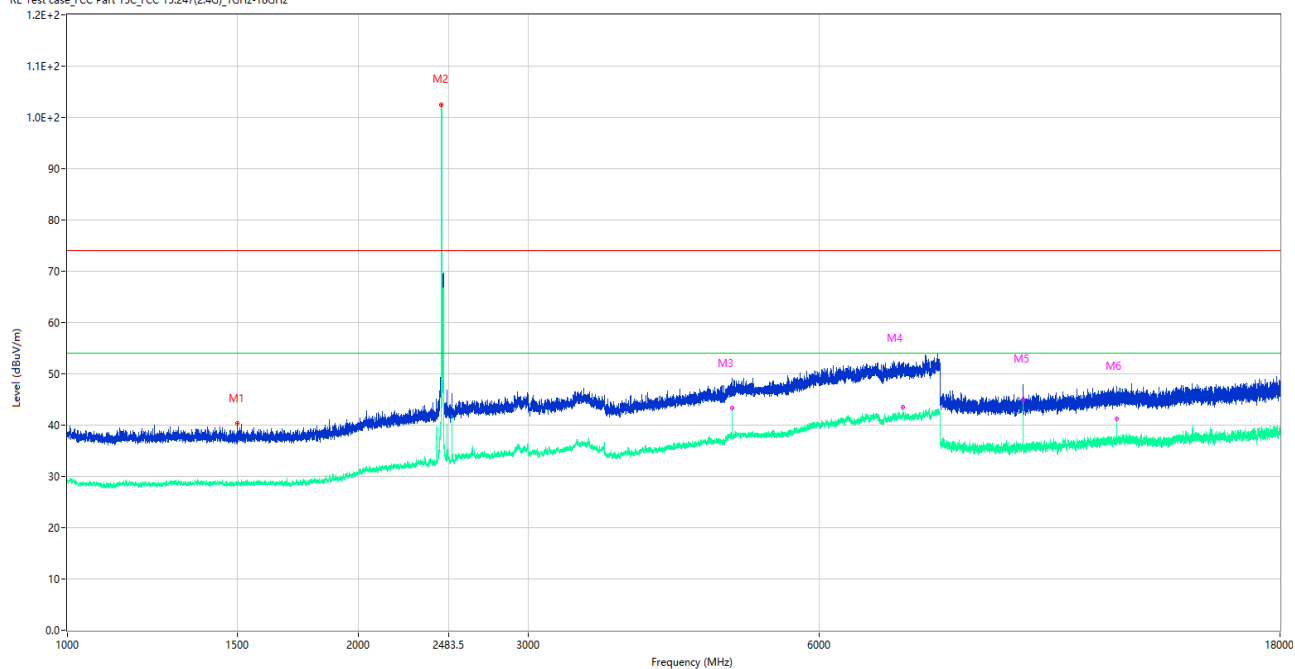


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1373.250	40.38	-15.98	74.0	33.62	Peak	0.00	150	Vertical	Pass
1**	1373.250	28.74	-15.98	54.0	25.26	AV	0.00	150	Vertical	Pass
2	2440.250	93.66	-12.37	74.0	-19.66	Peak	66.00	150	Vertical	N/A
2**	2440.250	93.03	-12.37	54.0	-39.03	AV	66.00	150	Vertical	N/A
3	4880.500	46.73	-2.29	74.0	27.27	Peak	221.00	150	Vertical	Pass
3**	4880.500	40.46	-2.29	54.0	13.54	AV	221.00	150	Vertical	Pass
4	7321.000	50.70	0.70	74.0	23.30	Peak	90.00	150	Vertical	Pass
4**	7321.000	42.90	0.70	54.0	11.10	AV	90.00	150	Vertical	Pass
5	9761.500	45.73	-3.56	74.0	28.27	Peak	37.00	150	Vertical	Pass
5**	9761.500	41.18	-3.56	54.0	12.82	AV	37.00	150	Vertical	Pass
6	12199.000	47.48	-2.81	74.0	26.52	Peak	360.00	150	Vertical	Pass
6**	12199.000	41.33	-2.81	54.0	12.67	AV	360.00	150	Vertical	Pass

Antenna type: PCB, Gain: 2.2 dBi

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

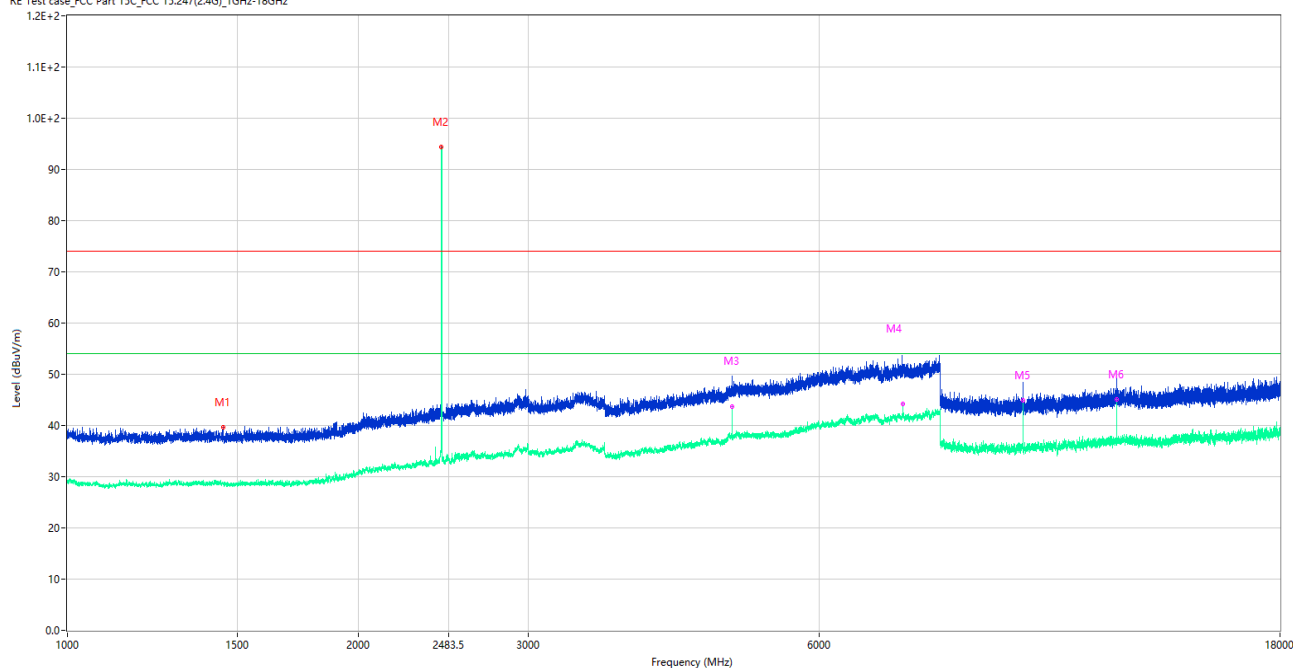
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1500.000	40.28	-16.14	74.0	33.72	Peak	39.00	150	Horizontal	Pass
1**	1500.000	28.46	-16.14	54.0	25.54	AV	39.00	150	Horizontal	Pass
2	2440.000	102.53	-12.37	74.0	-28.53	Peak	138.00	150	Horizontal	N/A
2**	2440.000	101.76	-12.37	54.0	-47.76	AV	138.00	150	Horizontal	N/A
3	4880.500	48.78	-2.29	74.0	25.22	Peak	72.00	150	Horizontal	Pass
3**	4880.500	43.28	-2.29	54.0	10.72	AV	72.00	150	Horizontal	Pass
4	7320.500	50.68	0.72	74.0	23.32	Peak	212.00	150	Horizontal	Pass
4**	7320.500	43.45	0.72	54.0	10.55	AV	212.00	150	Horizontal	Pass
5	9760.500	46.99	-3.63	74.0	27.01	Peak	270.00	150	Horizontal	Pass
5**	9760.500	44.89	-3.63	54.0	9.11	AV	270.00	150	Horizontal	Pass
6	12200.500	46.21	-2.77	74.0	27.79	Peak	359.00	150	Horizontal	Pass
6**	12200.500	41.27	-2.77	54.0	12.73	AV	359.00	150	Horizontal	Pass

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

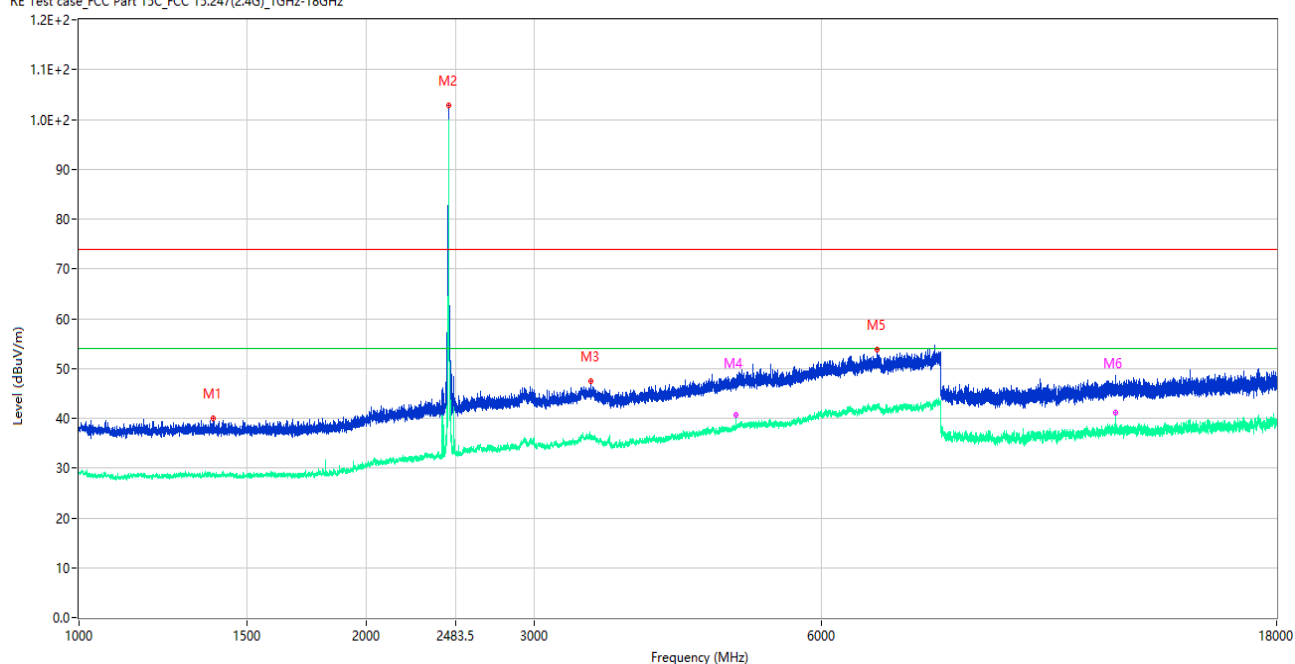
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1449.500	39.58	-15.96	74.0	34.42	Peak	205.00	150	Vertical	Pass
1**	1449.500	28.73	-15.96	54.0	25.27	AV	205.00	150	Vertical	Pass
2	2440.000	94.30	-12.37	74.0	-20.30	Peak	131.00	150	Vertical	N/A
2**	2440.000	93.53	-12.37	54.0	-39.53	AV	131.00	150	Vertical	N/A
3	4880.500	49.67	-2.29	74.0	24.33	Peak	354.00	150	Vertical	Pass
3**	4880.500	43.71	-2.29	54.0	10.29	AV	354.00	150	Vertical	Pass
4	7320.500	52.00	0.72	74.0	22.00	Peak	227.00	150	Vertical	Pass
4**	7320.500	44.16	0.72	54.0	9.84	AV	227.00	150	Vertical	Pass
5	9760.500	48.29	-3.63	74.0	25.71	Peak	360.00	150	Vertical	Pass
5**	9760.500	44.90	-3.63	54.0	9.10	AV	360.00	150	Vertical	Pass
6	12200.500	48.21	-2.77	74.0	25.79	Peak	360.00	150	Vertical	Pass
6**	12200.500	45.09	-2.77	54.0	8.91	AV	360.00	150	Vertical	Pass

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

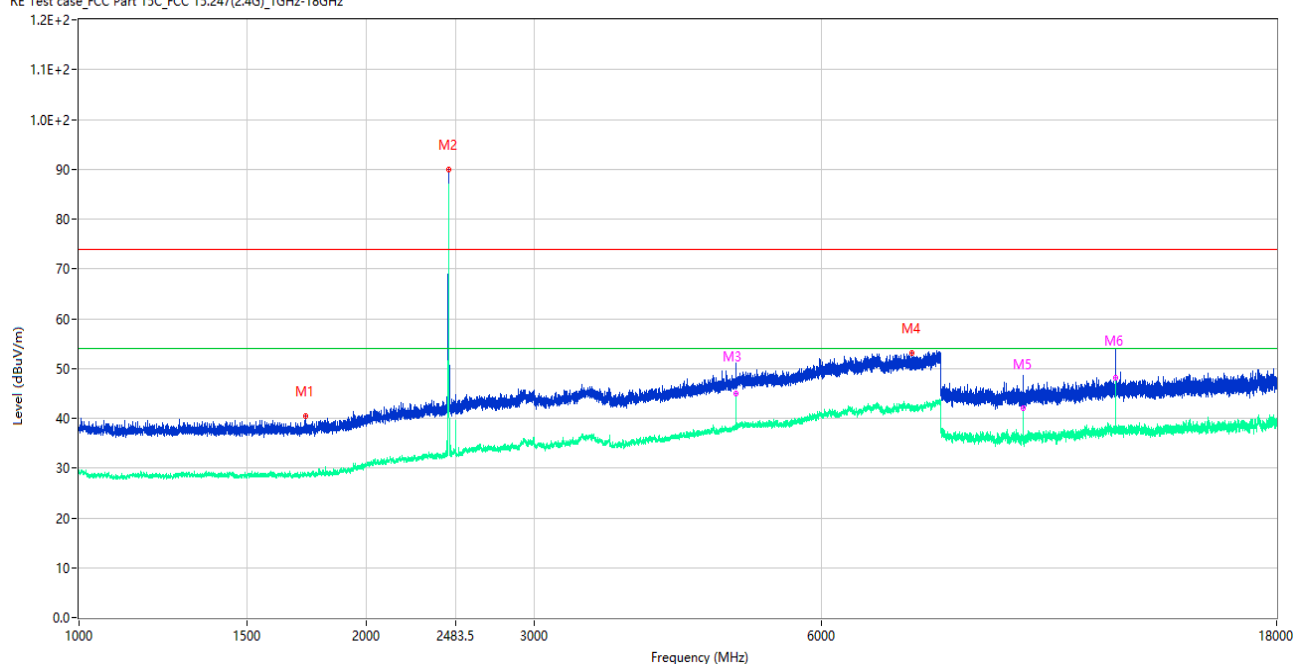
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1382.250	40.03	-15.99	74.0	33.97	Peak	87.00	150	Horizontal	Pass
1**	1382.250	28.63	-15.99	54.0	25.37	AV	87.00	150	Horizontal	Pass
2	2439.500	102.82	-12.37	74.0	-28.82	Peak	2.00	150	Horizontal	N/A
2**	2439.500	97.92	-12.37	54.0	-43.92	AV	2.00	150	Horizontal	N/A
3	3439.500	47.38	-5.28	74.0	26.62	Peak	331.00	150	Horizontal	Pass
3**	3439.500	35.92	-5.28	54.0	18.08	AV	331.00	150	Horizontal	Pass
4	4880.500	47.21	-2.29	74.0	26.79	Peak	15.00	150	Horizontal	Pass
4**	4880.500	40.64	-2.29	54.0	13.36	AV	15.00	150	Horizontal	Pass
5	6865.000	53.78	0.99	74.0	20.22	Peak	300.00	150	Horizontal	Pass
5**	6865.000	42.24	0.99	54.0	11.76	AV	300.00	150	Horizontal	Pass
6	12202.000	48.27	-2.73	74.0	25.73	Peak	66.00	150	Horizontal	Pass
6**	12202.000	41.05	-2.73	54.0	12.95	AV	66.00	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

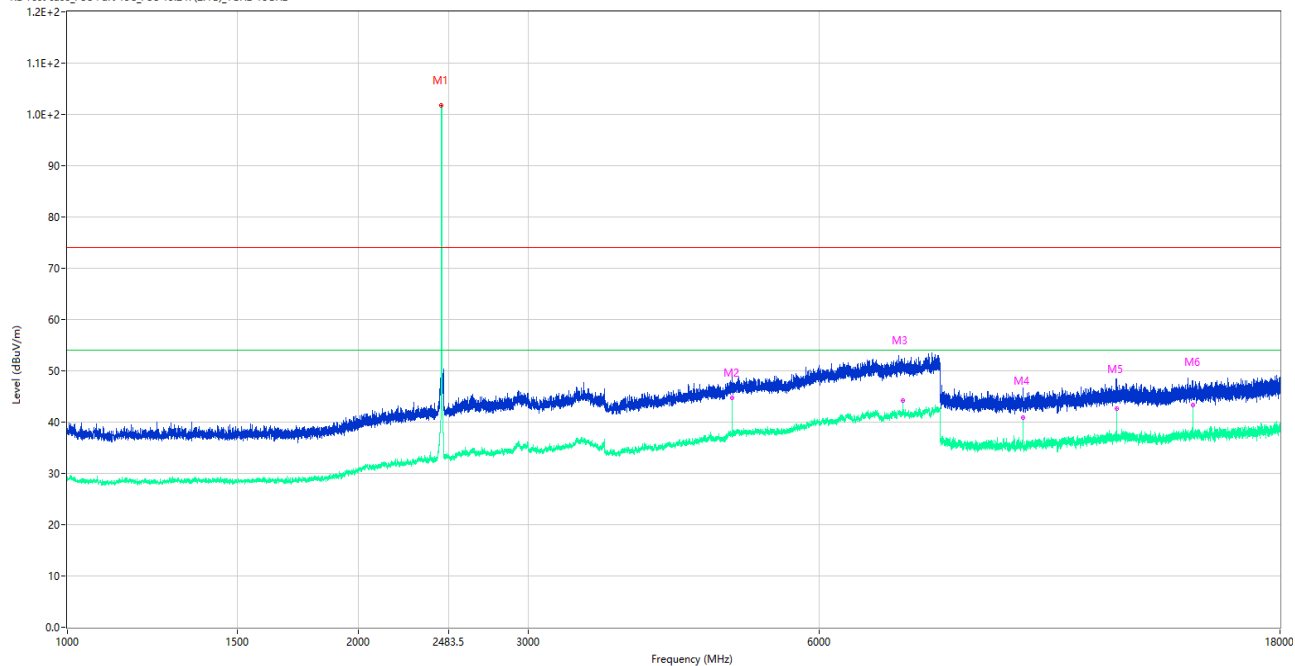


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1727.000	40.40	-16.19	74.0	33.60	Peak	199.00	150	Vertical	Pass
1**	1727.000	28.86	-16.19	54.0	25.14	AV	199.00	150	Vertical	Pass
2	2439.500	89.90	-12.37	74.0	-15.90	Peak	2.00	150	Vertical	N/A
2**	2439.500	83.92	-12.37	54.0	-29.92	AV	2.00	150	Vertical	N/A
3	4880.000	50.04	-2.29	74.0	23.96	Peak	162.00	150	Vertical	Pass
3**	4880.000	45.01	-2.29	54.0	8.99	AV	162.00	150	Vertical	Pass
4	7455.000	53.09	0.92	74.0	20.91	Peak	1.00	150	Vertical	Pass
4**	7455.000	41.69	0.92	54.0	12.31	AV	1.00	150	Vertical	Pass
5	9759.000	47.30	-3.79	74.0	26.70	Peak	125.00	150	Vertical	Pass
5**	9759.000	41.94	-3.79	54.0	12.06	AV	125.00	150	Vertical	Pass
6	12200.500	50.62	-2.77	74.0	23.38	Peak	182.00	150	Vertical	Pass
6**	12200.500	48.16	-2.77	54.0	5.84	AV	182.00	150	Vertical	Pass

Antenna type: Dipole, Gain: 2.29 dBi

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

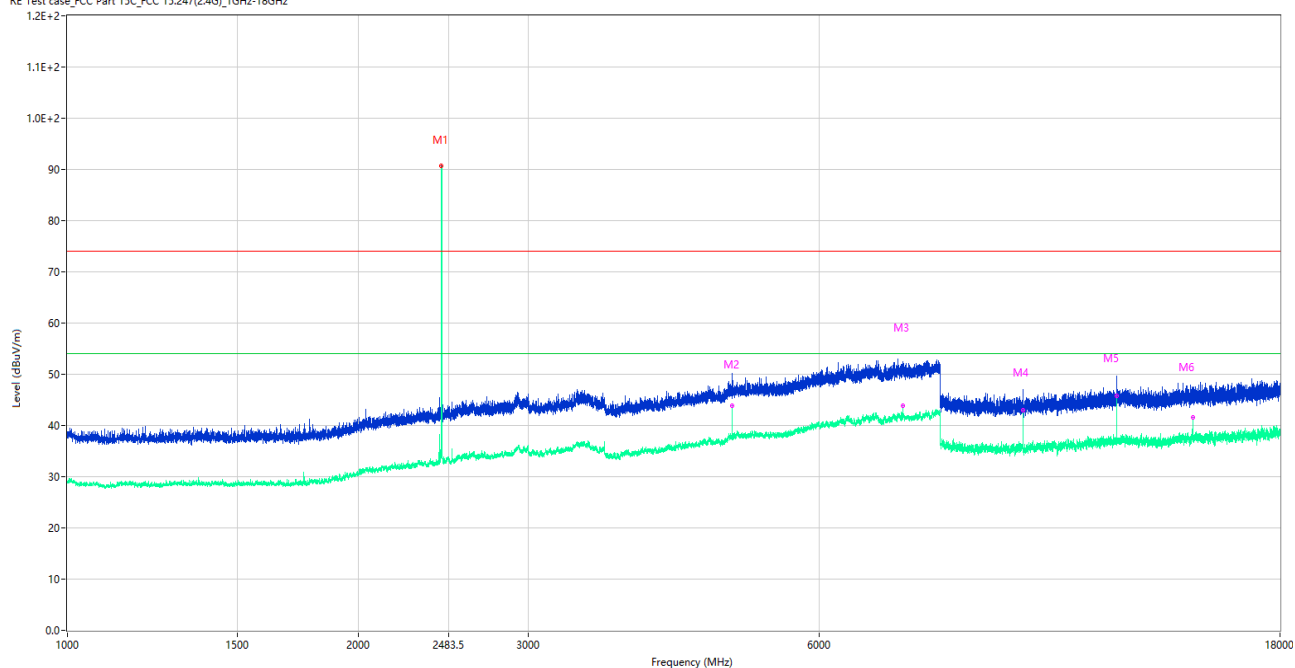
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2440.000	101.68	-12.37	74.0	-27.68	Peak	95.00	150	Horizontal	N/A
1**	2440.000	100.91	-12.37	54.0	-46.91	AV	95.00	150	Horizontal	N/A
2	4880.500	49.73	-2.29	74.0	24.27	Peak	29.00	150	Horizontal	Pass
2**	4880.500	44.66	-2.29	54.0	9.34	AV	29.00	150	Horizontal	Pass
3	7320.500	51.35	0.72	74.0	22.65	Peak	279.00	150	Horizontal	Pass
3**	7320.500	44.28	0.72	54.0	9.72	AV	279.00	150	Horizontal	Pass
4	9760.500	46.63	-3.63	74.0	27.37	Peak	360.00	150	Horizontal	Pass
4**	9760.500	40.84	-3.63	54.0	13.16	AV	360.00	150	Horizontal	Pass
5	12200.500	46.87	-2.77	74.0	27.13	Peak	360.00	150	Horizontal	Pass
5**	12200.500	42.67	-2.77	54.0	11.33	AV	360.00	150	Horizontal	Pass
6	14640.500	47.57	-2.37	74.0	26.43	Peak	175.00	150	Horizontal	Pass
6**	14640.500	43.40	-2.37	54.0	10.60	AV	175.00	150	Horizontal	Pass

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

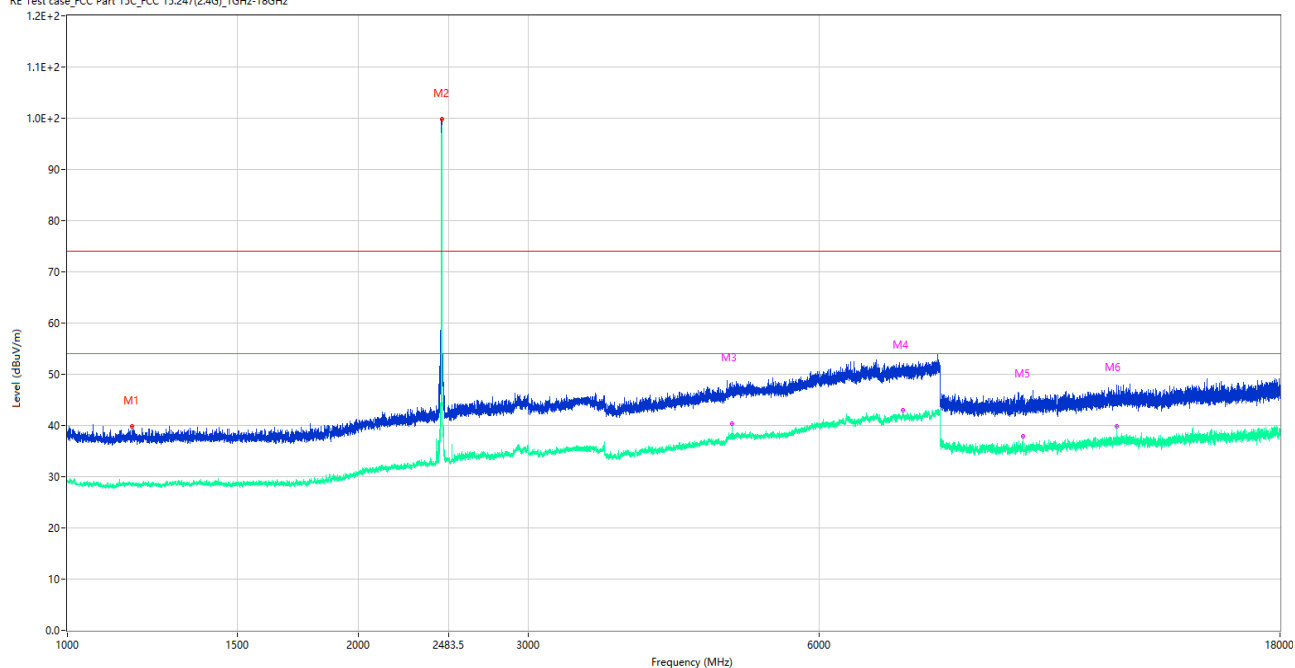
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2440.000	90.79	-12.37	74.0	-16.79	Peak	132.00	150	Vertical	N/A
1**	2440.000	90.01	-12.37	54.0	-36.01	AV	132.00	150	Vertical	N/A
2	4880.500	48.52	-2.29	74.0	25.48	Peak	139.00	150	Vertical	Pass
2**	4880.500	43.92	-2.29	54.0	10.08	AV	139.00	150	Vertical	Pass
3	7320.500	51.17	0.72	74.0	22.83	Peak	149.00	150	Vertical	Pass
3**	7320.500	43.83	0.72	54.0	10.17	AV	149.00	150	Vertical	Pass
4	9760.500	46.26	-3.63	74.0	27.74	Peak	39.00	150	Vertical	Pass
4**	9760.500	43.05	-3.63	54.0	10.95	AV	39.00	150	Vertical	Pass
5	12200.500	49.37	-2.77	74.0	24.63	Peak	351.00	150	Vertical	Pass
5**	12200.500	45.85	-2.77	54.0	8.15	AV	351.00	150	Vertical	Pass
6	14640.500	46.22	-2.37	74.0	27.78	Peak	68.00	150	Vertical	Pass
6**	14640.500	41.66	-2.37	54.0	12.34	AV	68.00	150	Vertical	Pass

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

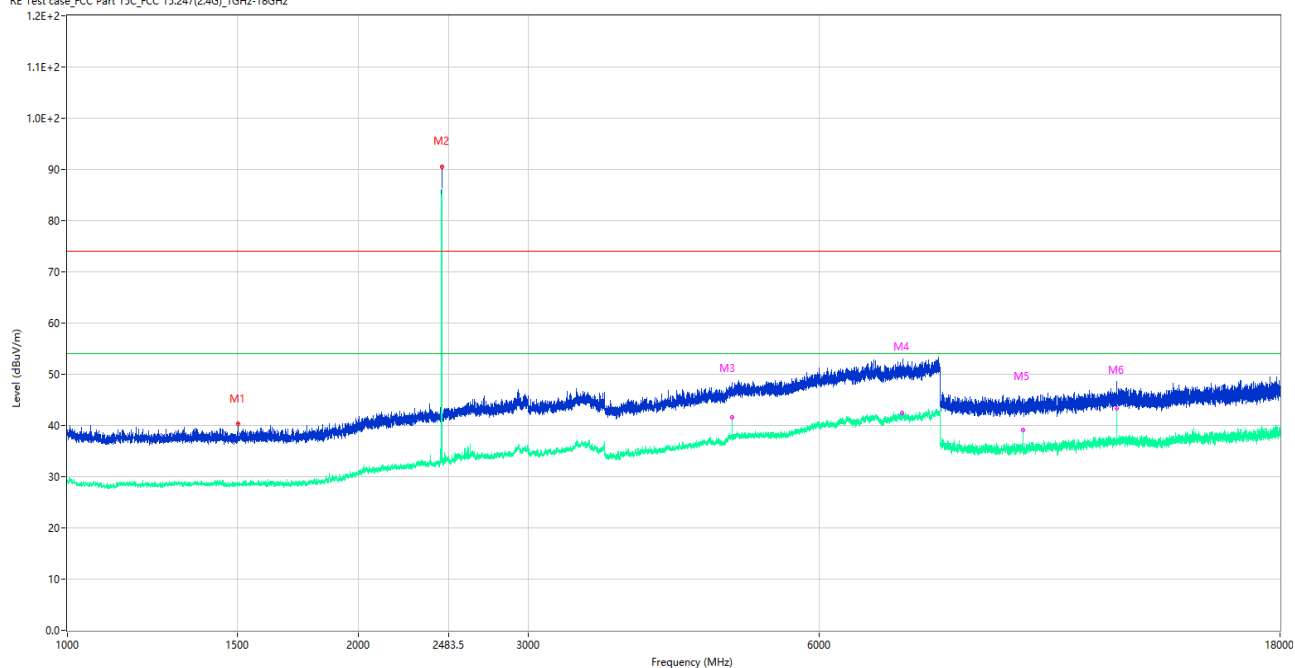
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1167.750	39.85	-15.47	74.0	34.15	Peak	19.00	150	Horizontal	Pass
1**	1167.750	28.55	-15.47	54.0	25.45	AV	19.00	150	Horizontal	Pass
2	2440.250	99.85	-12.37	74.0	-25.85	Peak	222.00	150	Horizontal	N/A
2**	2440.250	97.89	-12.37	54.0	-43.89	AV	222.00	150	Horizontal	N/A
3	4880.500	47.27	-2.29	74.0	26.73	Peak	142.00	150	Horizontal	Pass
3**	4880.500	40.41	-2.29	54.0	13.59	AV	142.00	150	Horizontal	Pass
4	7320.500	51.30	0.72	74.0	22.70	Peak	172.00	150	Horizontal	Pass
4**	7320.500	43.04	0.72	54.0	10.96	AV	172.00	150	Horizontal	Pass
5	9759.500	45.95	-3.74	74.0	28.05	Peak	328.00	150	Horizontal	Pass
5**	9759.500	37.98	-3.74	54.0	16.02	AV	328.00	150	Horizontal	Pass
6	12199.500	46.21	-2.81	74.0	27.79	Peak	351.00	150	Horizontal	Pass
6**	12199.500	39.83	-2.81	54.0	14.17	AV	351.00	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	1501.000	40.31	-16.12	74.0	33.69	Peak	117.00	150	Vertical	Pass
1**	1501.000	28.57	-16.12	54.0	25.43	AV	117.00	150	Vertical	Pass
2	2440.500	90.53	-12.38	74.0	-16.53	Peak	131.00	150	Vertical	N/A
2**	2440.500	84.84	-12.38	54.0	-30.84	AV	131.00	150	Vertical	N/A
3	4880.500	48.39	-2.29	74.0	25.61	Peak	100.00	150	Vertical	Pass
3**	4880.500	41.61	-2.29	54.0	12.39	AV	100.00	150	Vertical	Pass
4	7314.500	51.15	0.67	74.0	22.85	Peak	100.00	150	Vertical	Pass
4**	7314.500	42.48	0.67	54.0	11.52	AV	100.00	150	Vertical	Pass
5	9759.500	44.94	-3.74	74.0	29.06	Peak	9.00	150	Vertical	Pass
5**	9759.500	39.10	-3.74	54.0	14.90	AV	9.00	150	Vertical	Pass
6	12199.500	46.52	-2.81	74.0	27.48	Peak	321.00	150	Vertical	Pass
6**	12199.500	43.34	-2.81	54.0	10.66	AV	321.00	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.

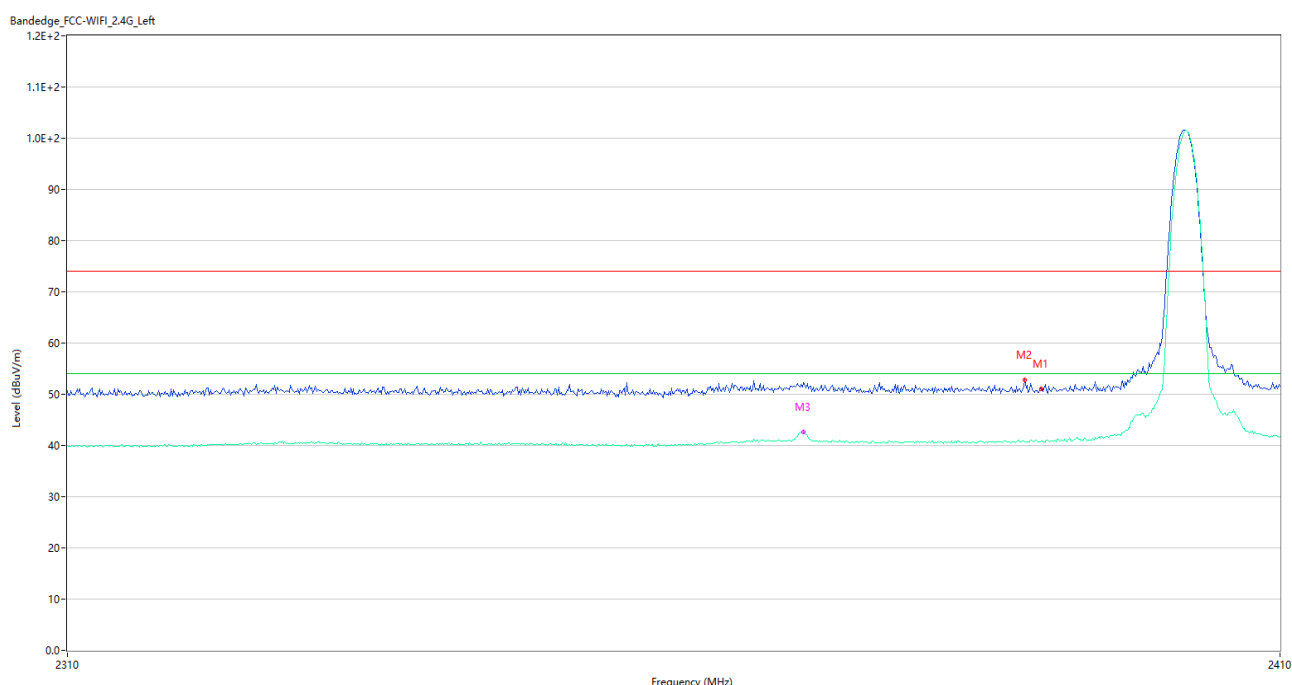
Note 3: According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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

Test Data and Plots

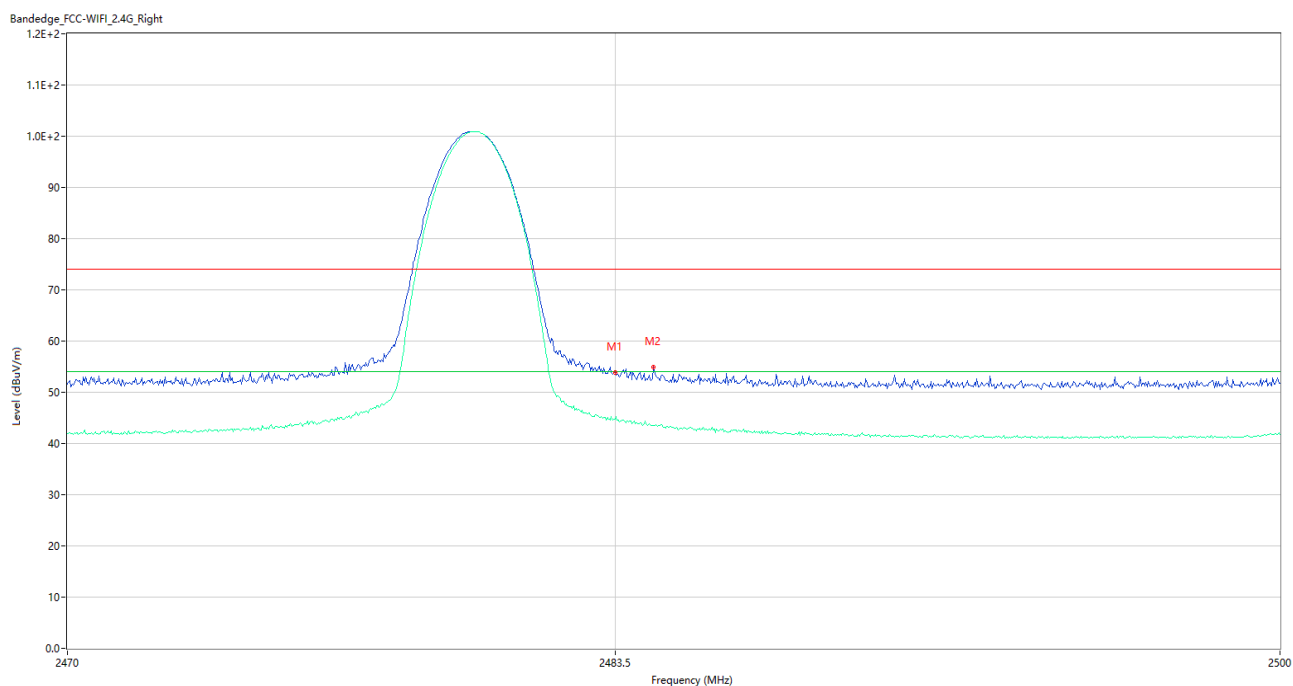
Antenna type: Ceramics, Gain: 1.05 dBi

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	50.97	-4.87	74.0	23.03	Peak	65.18	150	Horizontal	Pass
1**	2390.000	40.84	-4.87	54.0	13.16	AV	65.18	150	Horizontal	Pass
2	2388.600	52.79	-4.80	74.0	21.21	Peak	97.00	150	Horizontal	Pass
2**	2388.600	40.62	-4.80	54.0	13.38	AV	97.00	150	Horizontal	Pass
3	2370.200	52.24	-4.01	74.0	21.76	Peak	150.00	150	Horizontal	Pass
3**	2370.200	42.66	-4.01	54.0	11.34	AV	150.00	150	Horizontal	Pass

GFSK (BLE 1Mbps) HIGH CHANNEL



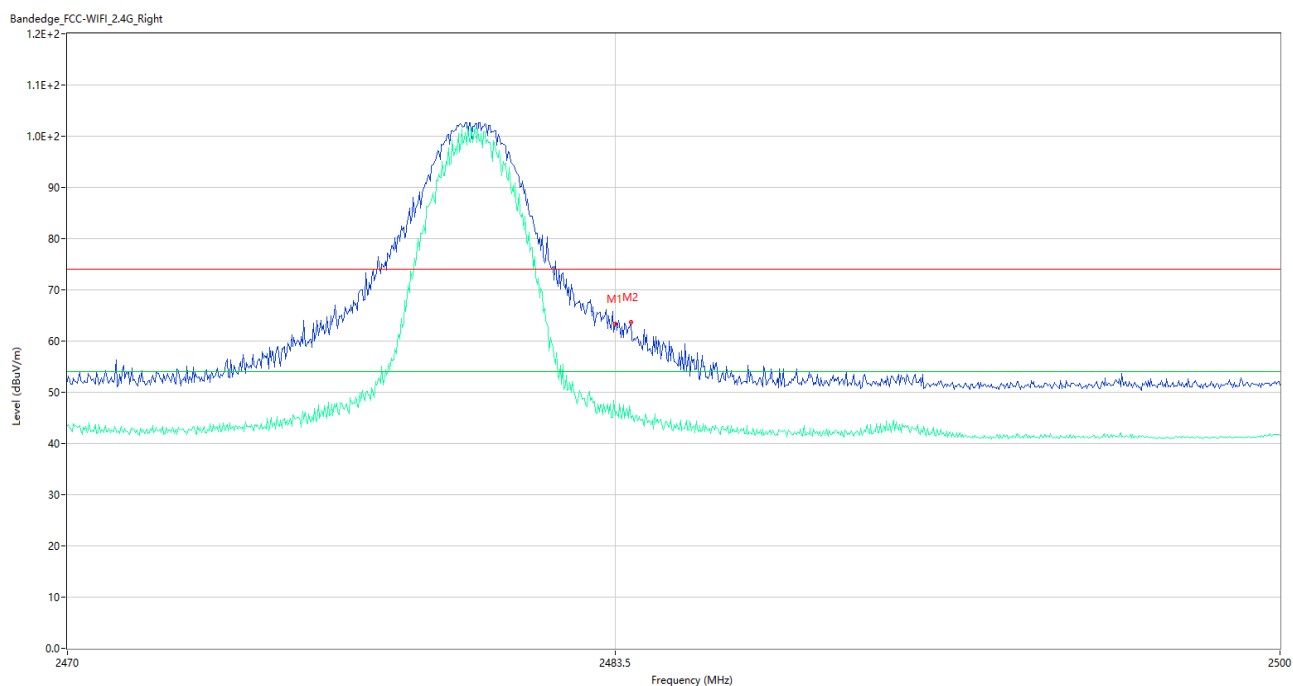
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	53.78	-3.78	74.0	20.22	Peak	164.00	150	Horizontal	Pass
1**	2483.500	44.82	-3.78	54.0	9.18	AV	164.00	150	Horizontal	Pass
2	2484.460	54.83	-3.78	74.0	19.17	Peak	164.00	150	Horizontal	Pass
2**	2484.460	43.54	-3.78	54.0	10.46	AV	164.00	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	51.24	-4.87	74.0	22.76	Peak	75.36	150	Horizontal	Pass
1**	2390.000	41.11	-4.87	54.0	12.89	AV	75.36	150	Horizontal	Pass
2	2382.500	52.63	-4.44	74.0	21.37	Peak	172.00	150	Horizontal	Pass
2**	2382.500	40.50	-4.44	54.0	13.50	AV	172.00	150	Horizontal	Pass
3	2370.000	51.54	-4.00	74.0	22.46	Peak	209.00	150	Horizontal	Pass
3**	2370.000	42.63	-4.00	54.0	11.37	AV	209.00	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	63.38	-3.78	74.0	10.62	Peak	163.00	150	Horizontal	Pass
1**	2483.500	45.39	-3.78	54.0	8.61	AV	163.00	150	Horizontal	Pass
2	2483.890	63.62	-3.78	74.0	10.38	Peak	160.00	150	Horizontal	Pass
2**	2483.890	44.84	-3.78	54.0	9.16	AV	160.00	150	Horizontal	Pass

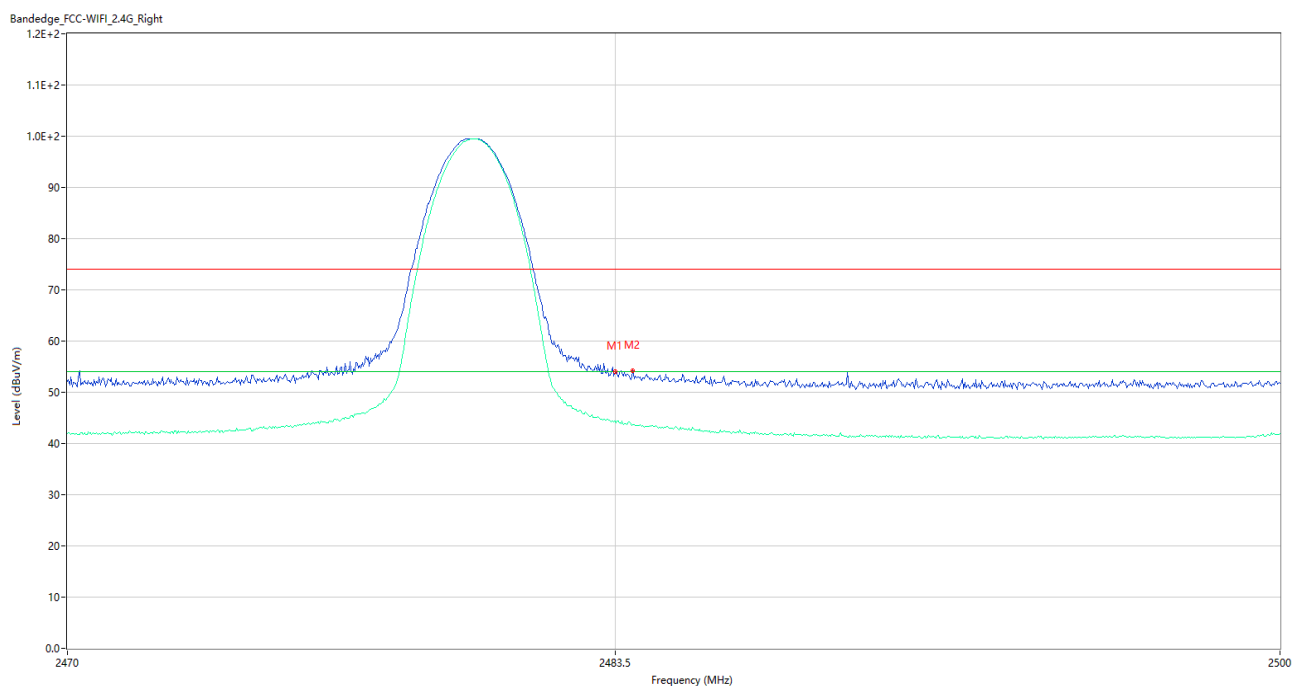
Antenna type: PCB, Gain: 0.8 dBi

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	51.88	-4.87	74.0	22.12	Peak	163.20	150	Horizontal	Pass
1**	2390.000	40.70	-4.87	54.0	13.30	AV	163.20	150	Horizontal	Pass
2	2373.300	52.39	-4.10	74.0	21.61	Peak	250.00	150	Horizontal	Pass
2**	2373.300	40.55	-4.10	54.0	13.45	AV	250.00	150	Horizontal	Pass
3	2370.300	51.40	-4.01	74.0	22.60	Peak	319.00	150	Horizontal	Pass
3**	2370.300	42.10	-4.01	54.0	11.90	AV	319.00	150	Horizontal	Pass

GFSK (BLE 1Mbps) HIGH CHANNEL



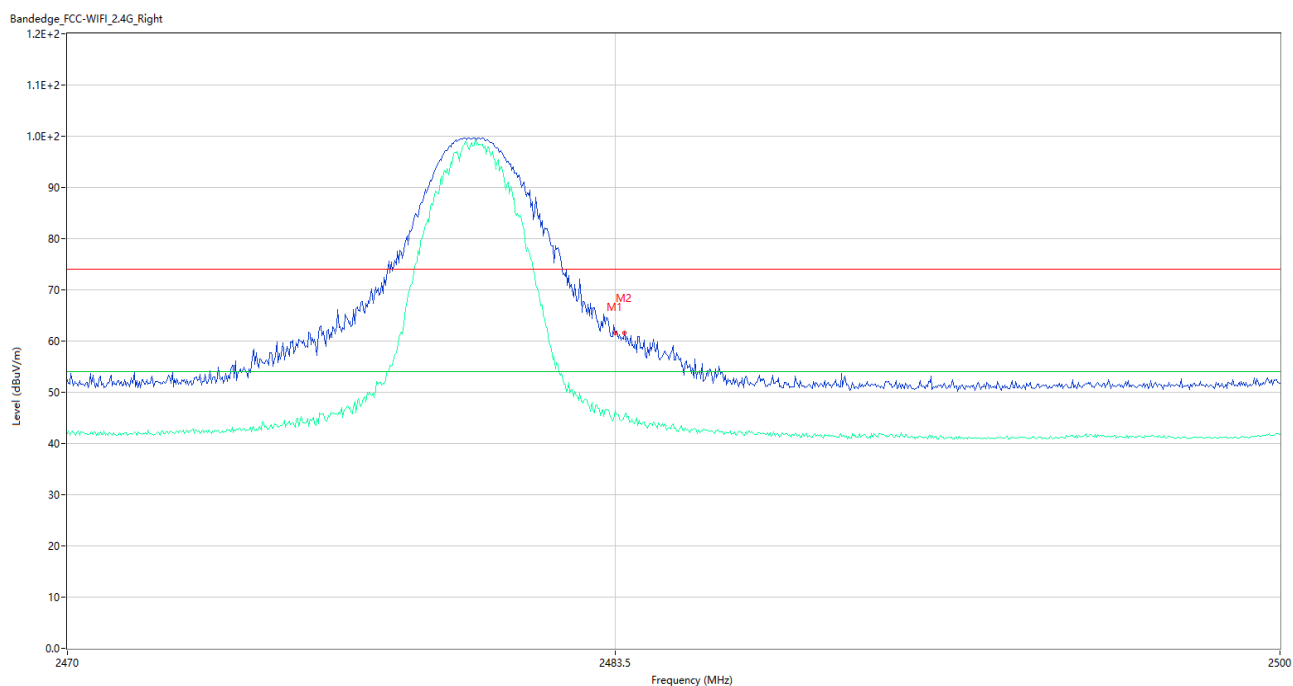
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	54.00	-3.78	74.0	20.00	Peak	351.00	150	Horizontal	Pass
1**	2483.500	44.34	-3.78	54.0	9.66	AV	351.00	150	Horizontal	Pass
2	2483.950	54.30	-3.78	74.0	19.70	Peak	181.00	150	Horizontal	Pass
2**	2483.950	43.74	-3.78	54.0	10.26	AV	181.00	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	51.30	-4.87	74.0	22.70	Peak	20.14	150	Vertical	Pass
1**	2390.000	40.21	-4.87	54.0	13.79	AV	20.14	150	Vertical	Pass
2	2369.400	52.59	-4.07	74.0	21.41	Peak	32.00	150	Vertical	Pass
2**	2369.400	41.00	-4.07	54.0	13.00	AV	32.00	150	Vertical	Pass

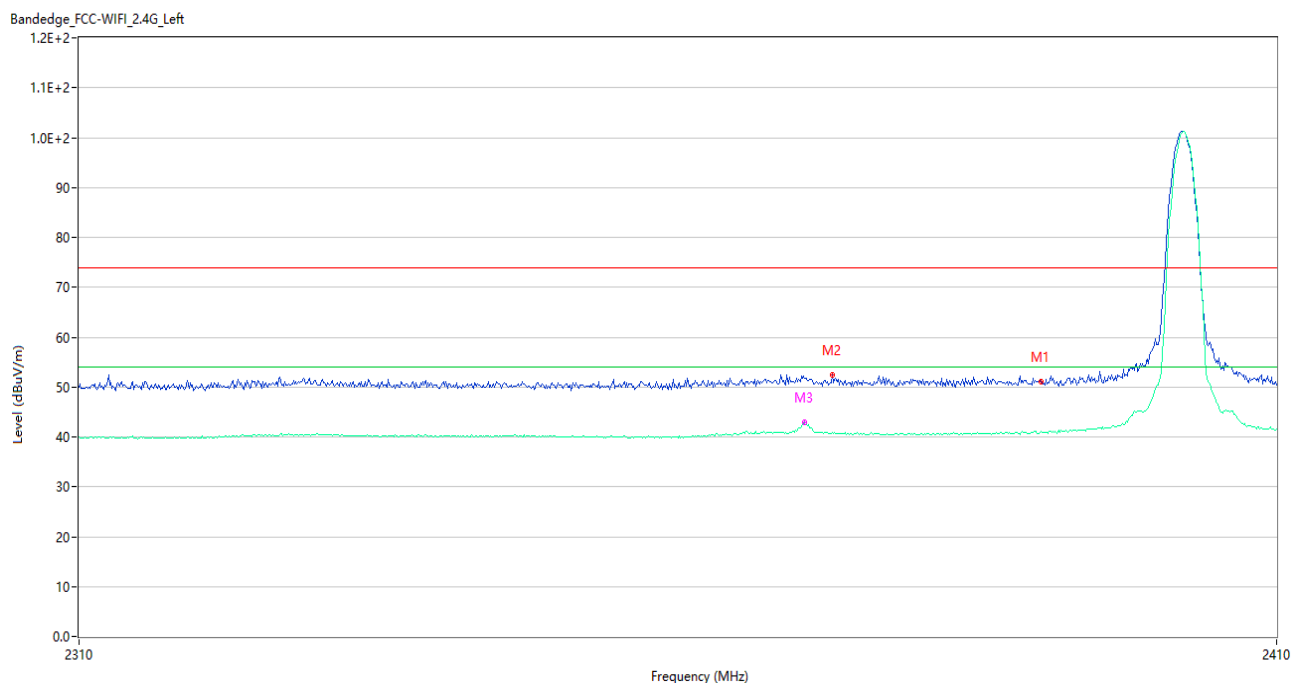
GFSK (BLE 2Mbps) HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	61.59	-3.78	74.0	12.41	Peak	345.00	150	Horizontal	Pass
1**	2483.500	46.43	-3.78	54.0	7.57	AV	345.00	150	Horizontal	Pass
2	2483.740	61.65	-3.78	74.0	12.35	Peak	345.00	150	Horizontal	Pass
2**	2483.740	45.39	-3.78	54.0	8.61	AV	345.00	150	Horizontal	Pass

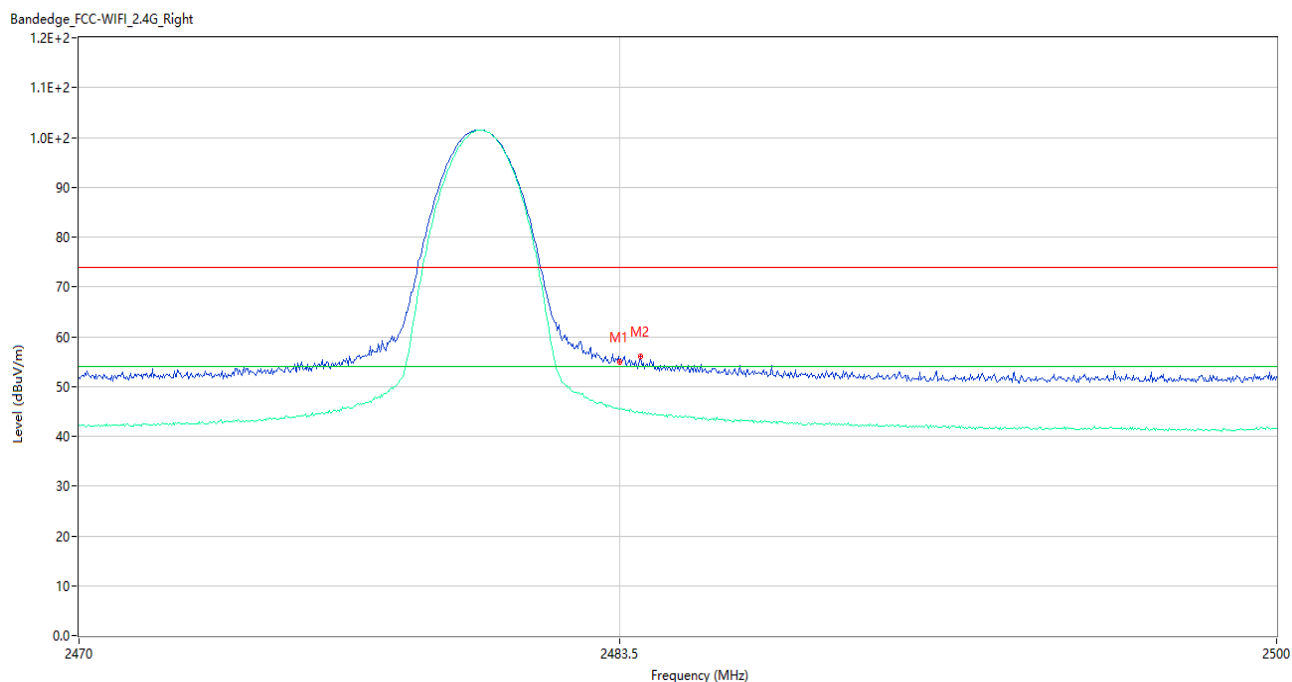
Antenna type: PCB, Gain: 3.3 dBi

GFSK (BLE 1Mbps) LOW CHANNEL



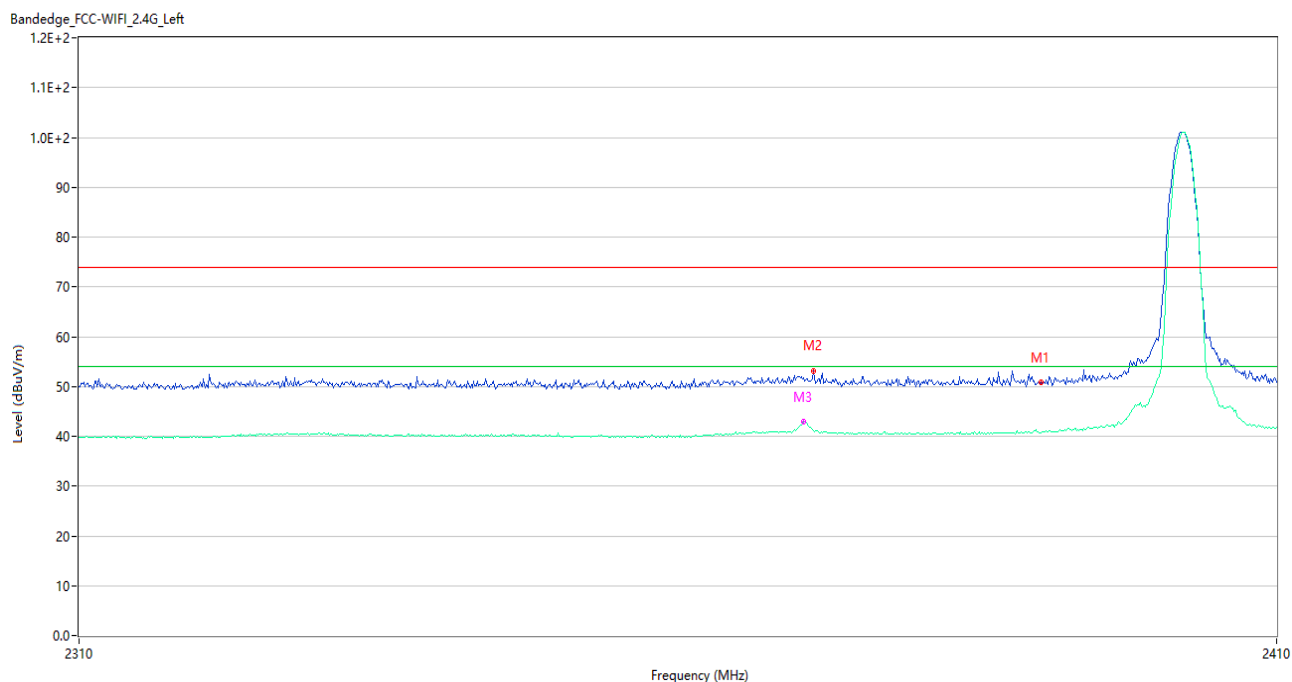
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	51.03	-4.87	74.0	22.97	Peak	269.79	150	Horizontal	Pass
1**	2390.000	41.05	-4.87	54.0	12.95	AV	269.79	150	Horizontal	Pass
2	2372.400	52.47	-4.08	74.0	21.53	Peak	106.00	150	Horizontal	Pass
2**	2372.400	40.92	-4.08	54.0	13.08	AV	106.00	150	Horizontal	Pass
3	2370.100	51.70	-4.01	74.0	22.30	Peak	286.00	150	Horizontal	Pass
3**	2370.100	42.90	-4.01	54.0	11.10	AV	286.00	150	Horizontal	Pass

GFSK (BLE 1Mbps) HIGH CHANNEL



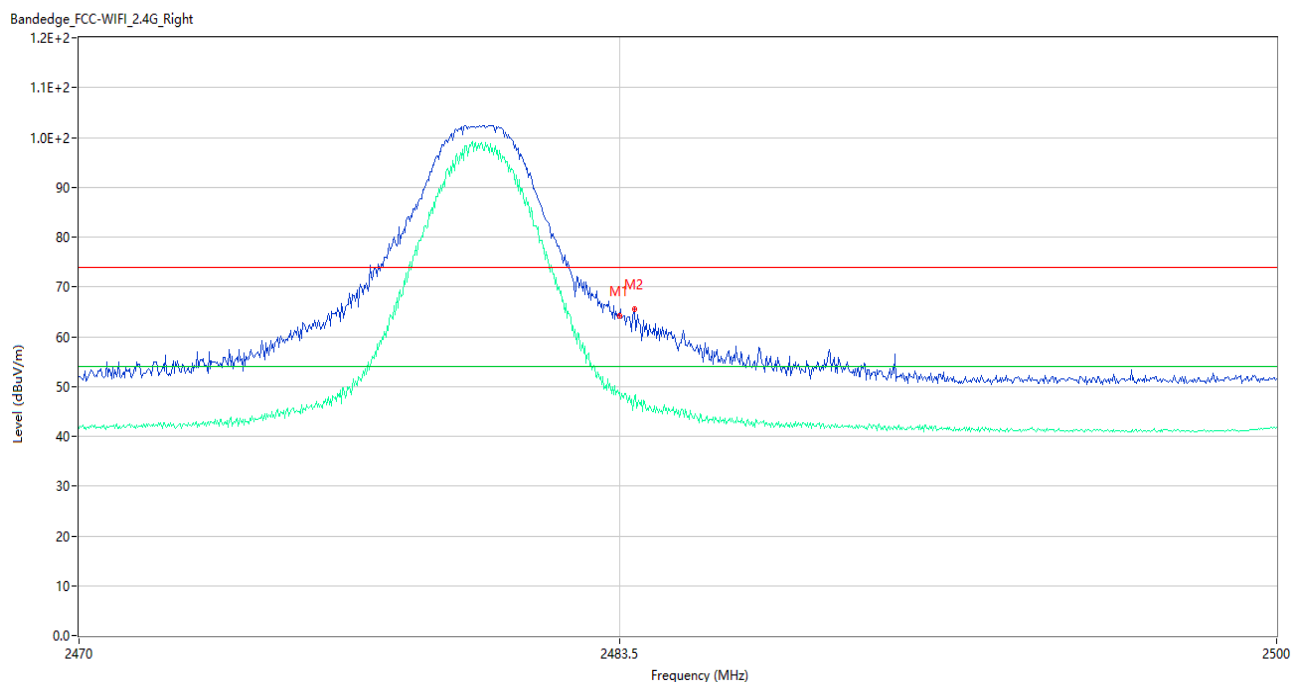
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	55.02	-3.78	74.0	18.98	Peak	41.00	150	Horizontal	Pass
1**	2483.500	45.39	-3.78	54.0	8.61	AV	41.00	150	Horizontal	Pass
2	2484.010	56.16	-3.78	74.0	17.84	Peak	76.00	150	Horizontal	Pass
2**	2484.010	44.64	-3.78	54.0	9.36	AV	76.00	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	50.81	-4.87	74.0	23.19	Peak	152.00	150	Horizontal	Pass
1**	2390.000	40.76	-4.87	54.0	13.24	AV	152.00	150	Horizontal	Pass
2	2370.800	53.15	-4.03	74.0	20.85	Peak	360.00	150	Horizontal	Pass
2**	2370.800	41.23	-4.03	54.0	12.77	AV	360.00	150	Horizontal	Pass
3	2370.000	51.65	-4.00	74.0	22.35	Peak	11.00	150	Horizontal	Pass
3**	2370.000	42.85	-4.00	54.0	11.15	AV	11.00	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	64.25	-3.78	74.0	9.75	Peak	180.00	150	Vertical	Pass
1**	2483.500	48.88	-3.78	54.0	5.12	AV	180.00	150	Vertical	Pass
2	2483.860	65.46	-3.78	74.0	8.54	Peak	34.00	150	Vertical	Pass
2**	2483.860	47.81	-3.78	54.0	6.19	AV	34.00	150	Vertical	Pass

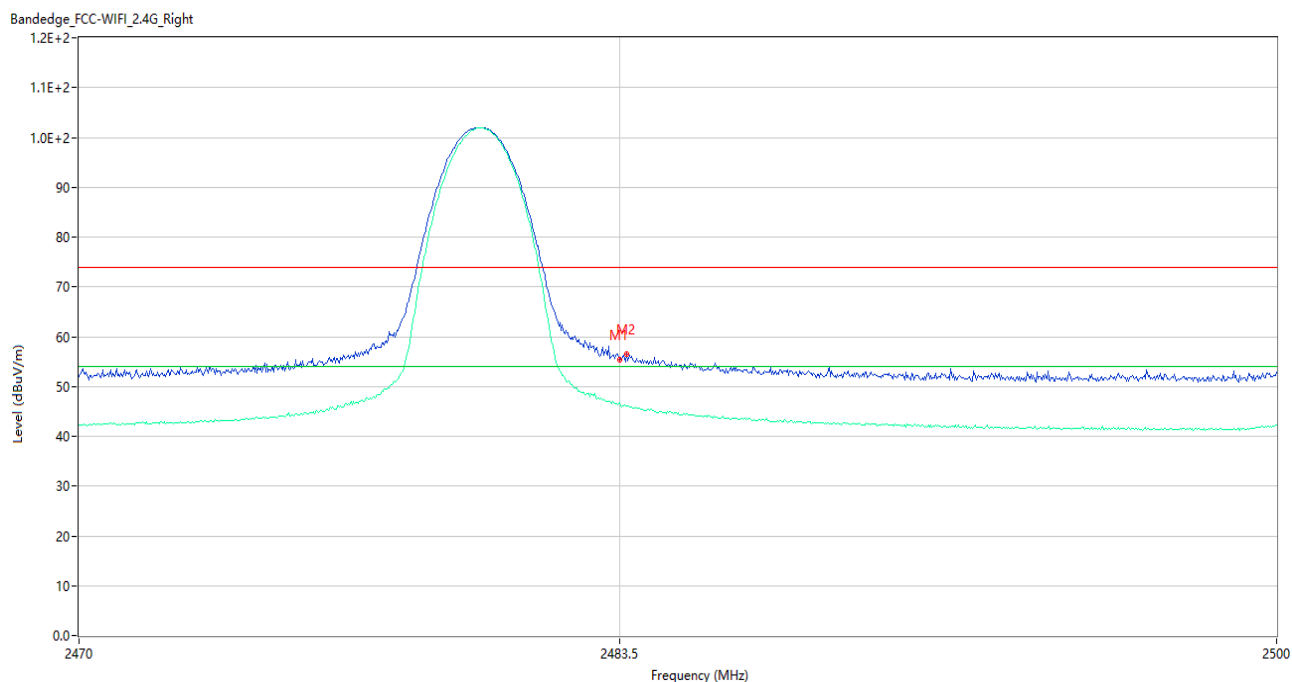
Antenna type: PCB, Gain: 2.2 dBi

GFSK (BLE 1Mbps) LOW CHANNEL



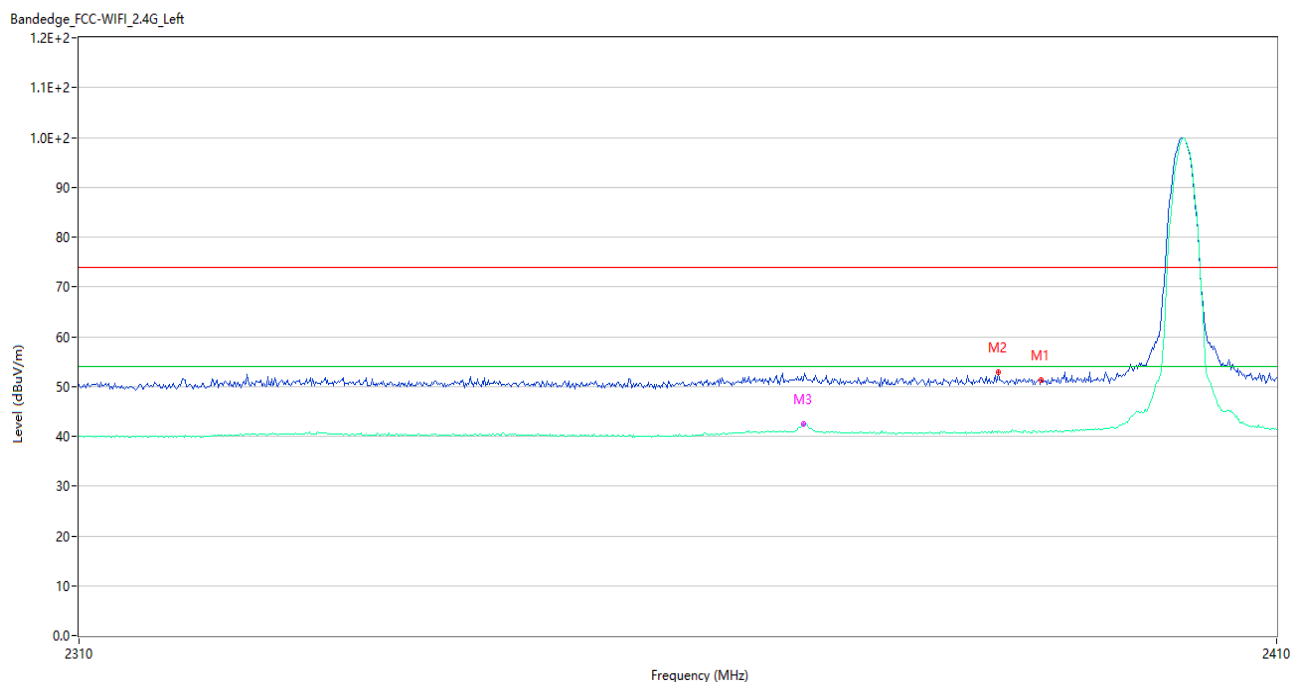
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	50.65	-4.87	74.0	23.35	Peak	0.45	150	Horizontal	Pass
1**	2390.000	40.88	-4.87	54.0	13.12	AV	0.45	150	Horizontal	Pass
2	2370.100	53.17	-4.01	74.0	20.83	Peak	0.00	150	Horizontal	Pass
2**	2370.100	42.39	-4.01	54.0	11.61	AV	0.00	150	Horizontal	Pass
3	2370.100	53.17	-4.01	74.0	20.83	Peak	0.00	150	Horizontal	Pass
3**	2370.100	42.39	-4.01	54.0	11.61	AV	0.00	150	Horizontal	Pass

GFSK (BLE 1Mbps) HIGH CHANNEL



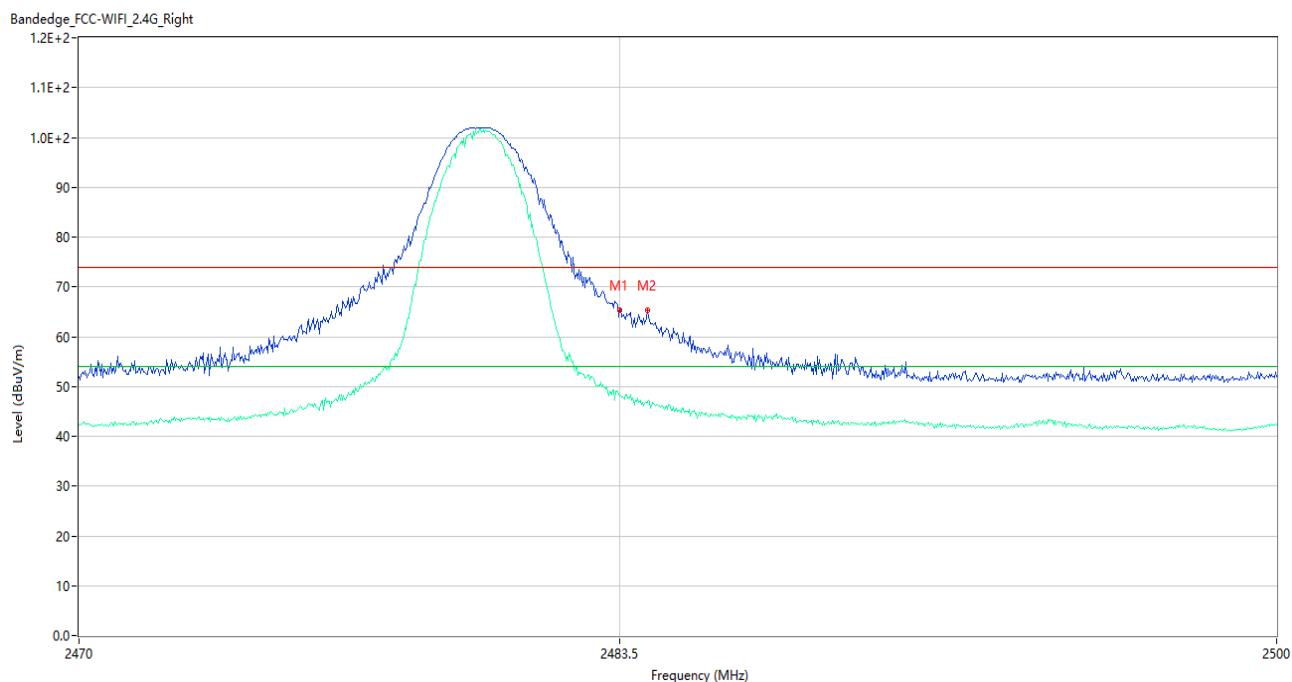
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	55.32	-3.78	74.0	18.68	Peak	0.00	150	Horizontal	Pass
1**	2483.500	46.87	-3.78	54.0	7.13	AV	0.00	150	Horizontal	Pass
2	2483.680	56.40	-3.78	74.0	17.60	Peak	0.00	150	Horizontal	Pass
2**	2483.680	46.07	-3.78	54.0	7.93	AV	0.00	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	139.02	150	Horizontal	Pass
1**	2390.000	40.90	-4.87	54.0	13.10	AV	139.02	150	Horizontal	Pass
2	2386.400	52.81	-4.66	74.0	21.19	Peak	270.00	150	Horizontal	Pass
2**	2386.400	41.07	-4.66	54.0	12.93	AV	270.00	150	Horizontal	Pass
3	2370.000	51.30	-4.00	74.0	22.70	Peak	195.00	150	Horizontal	Pass
3**	2370.000	42.59	-4.00	54.0	11.41	AV	195.00	150	Horizontal	Pass

GFSK (BLE 2Mbps) HIGH CHANNEL

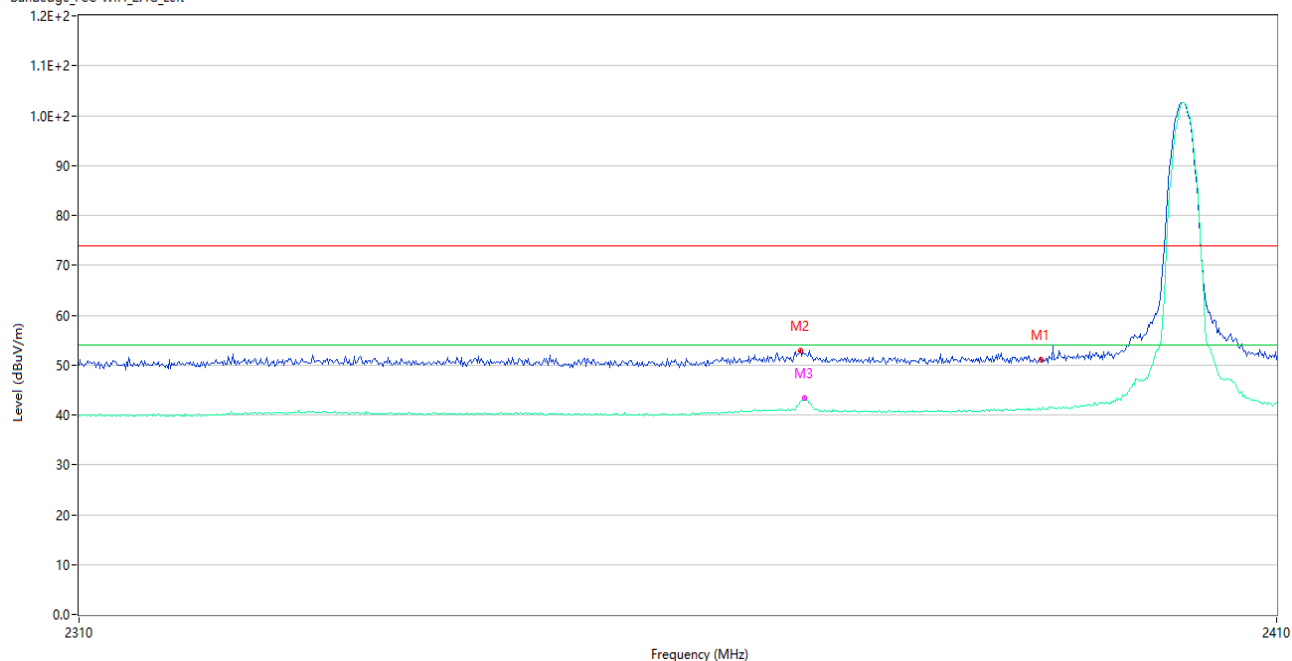


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	65.31	-3.78	74.0	8.69	Peak	360.00	150	Horizontal	Pass
1**	2483.500	48.23	-3.78	54.0	5.77	AV	360.00	150	Horizontal	Pass
2	2484.190	65.34	-3.78	74.0	8.66	Peak	360.00	150	Horizontal	Pass
2**	2484.190	46.84	-3.78	54.0	7.16	AV	360.00	150	Horizontal	Pass

Antenna type: Dipole, Gain: 2.29 dBi

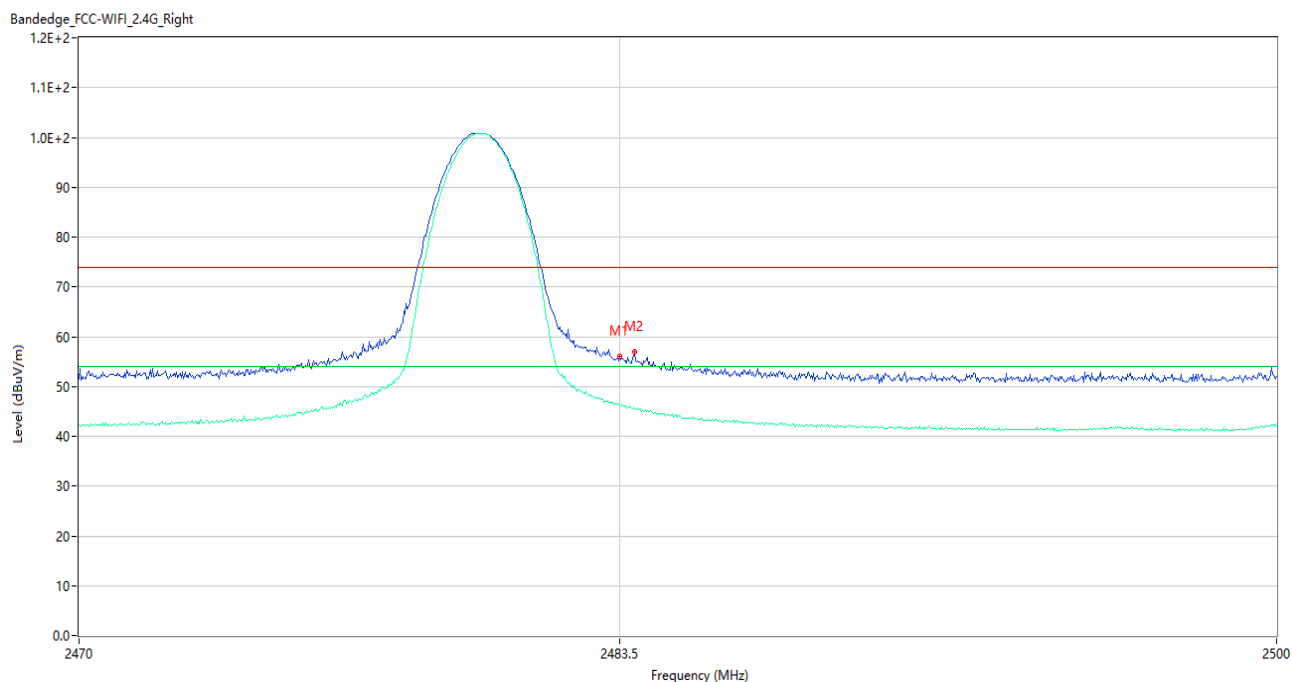
GFSK (BLE 1Mbps) LOW CHANNEL

Bandedge_FCC-WIFI_2.4G_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	51.09	-4.87	74.0	22.91	Peak	176.78	150	Horizontal	Pass
1**	2390.000	41.10	-4.87	54.0	12.90	AV	176.78	150	Horizontal	Pass
2	2369.700	52.90	-4.04	74.0	21.10	Peak	203.00	150	Horizontal	Pass
2**	2369.700	42.66	-4.04	54.0	11.34	AV	203.00	150	Horizontal	Pass
3	2370.100	52.14	-4.01	74.0	21.86	Peak	196.00	150	Horizontal	Pass
3**	2370.100	43.42	-4.01	54.0	10.58	AV	196.00	150	Horizontal	Pass

GFSK (BLE 1Mbps) HIGH CHANNEL



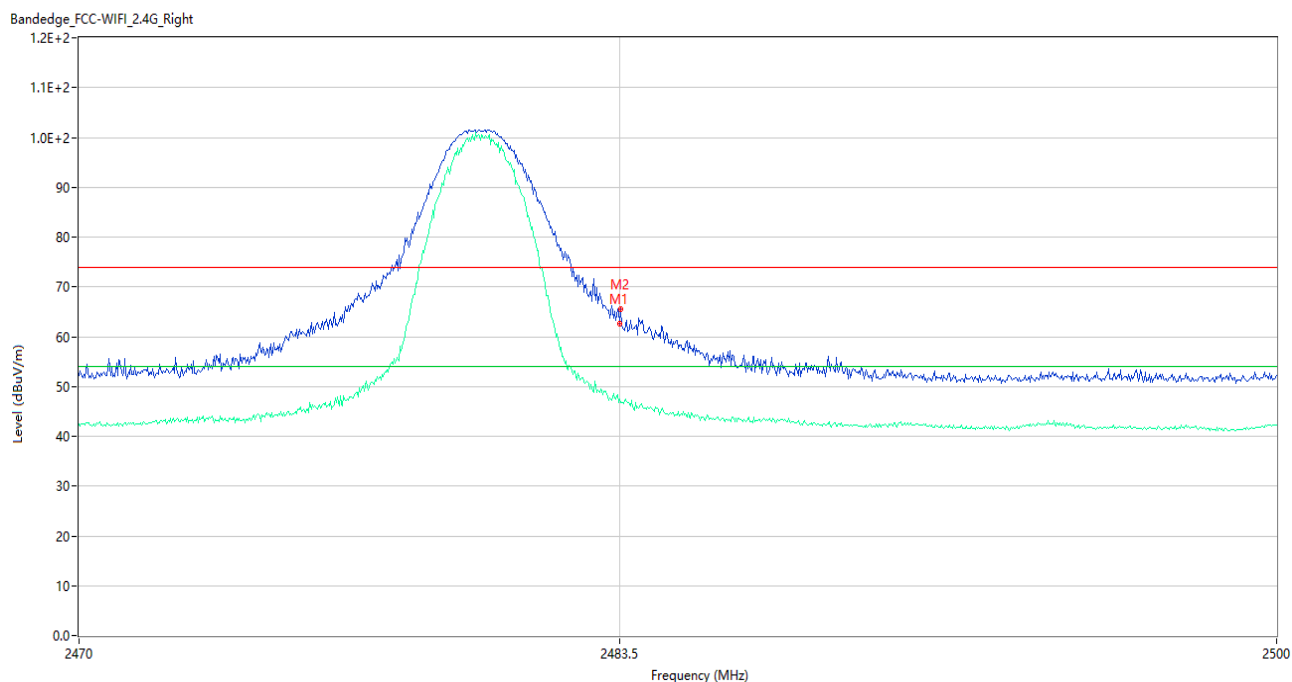
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	56.07	-3.78	74.0	17.93	Peak	190.00	150	Horizontal	Pass
1**	2483.500	46.25	-3.78	54.0	7.75	AV	190.00	150	Horizontal	Pass
2	2483.860	56.88	-3.78	74.0	17.12	Peak	176.00	150	Horizontal	Pass
2**	2483.860	45.62	-3.78	54.0	8.38	AV	176.00	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	50.59	-4.87	74.0	23.41	Peak	215.74	150	Horizontal	Pass
1**	2390.000	41.20	-4.87	54.0	12.80	AV	215.74	150	Horizontal	Pass
2	2369.700	52.59	-4.04	74.0	21.41	Peak	46.00	150	Horizontal	Pass
2**	2369.700	42.65	-4.04	54.0	11.35	AV	46.00	150	Horizontal	Pass
3	2370.300	52.04	-4.01	74.0	21.96	Peak	190.00	150	Horizontal	Pass
3**	2370.300	43.43	-4.01	54.0	10.57	AV	190.00	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	62.63	-3.78	74.0	11.37	Peak	8.00	150	Horizontal	Pass
1**	2483.500	47.35	-3.78	54.0	6.65	AV	8.00	150	Horizontal	Pass
2	2483.530	65.46	-3.78	74.0	8.54	Peak	38.00	150	Horizontal	Pass
2**	2483.530	46.82	-3.78	54.0	7.18	AV	38.00	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	-4.30	8	Pass
Middle	-3.03	8	Pass
High	-4.26	8	Pass

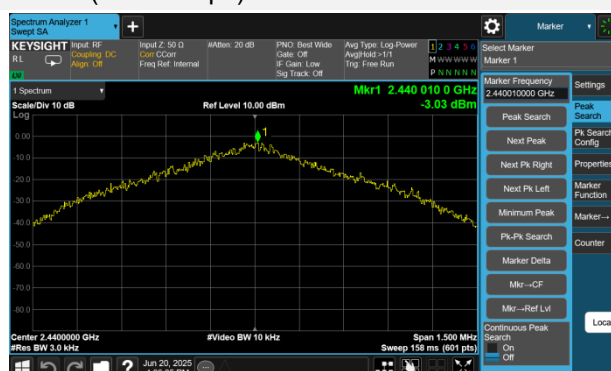
GFSK (BLE 2Mbps)			
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-2.98	8	Pass
Middle	-2.62	8	Pass
High	-3.31	8	Pass

Test Plots

GFSK (BLE 1Mbps) LOW CHANNEL



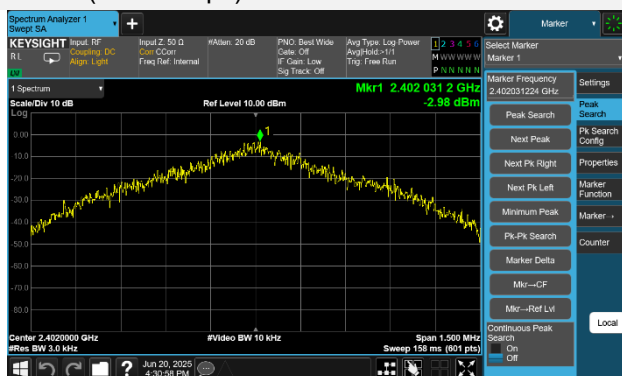
GFSK (BLE 1Mbps) MIDDLE CHANNEL



GFSK (BLE 1Mbps) HIGH CHANNEL



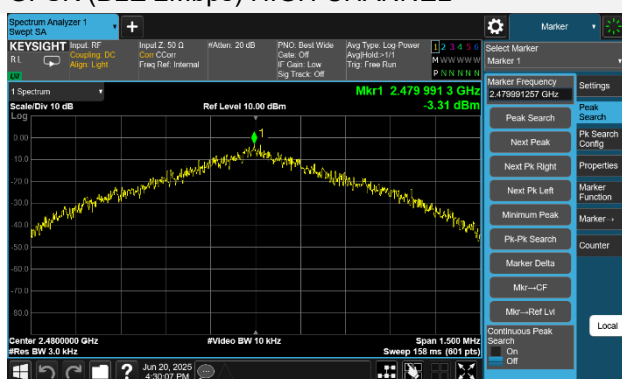
GFSK (BLE 2Mbps) LOW CHANNEL



GFSK (BLE 2Mbps) MIDDLE CHANNEL



GFSK (BLE 2Mbps) HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH2560626-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH2560626-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH2560626-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.
2. For the report with Accreditation Symbol, the items marked with "☆" are not within the accredited scope.
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--END OF REPORT--