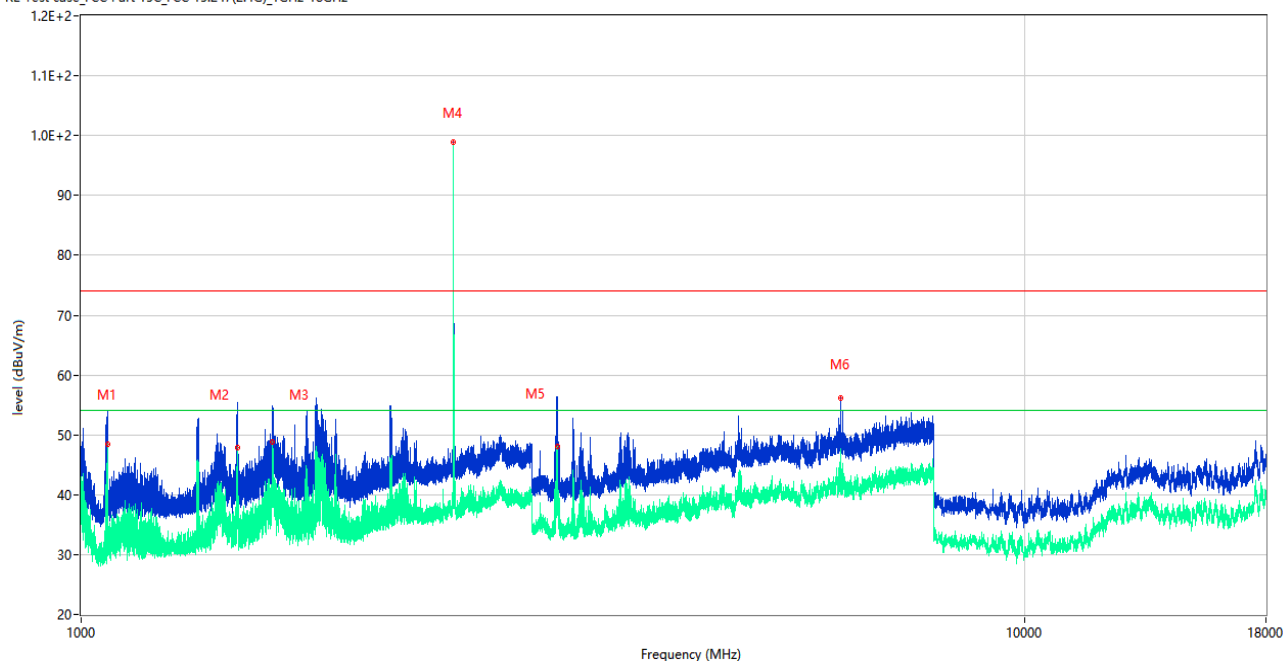


GFSK (BLE 1Mbps) HIGH CHANNEL 1 GHz to 18 GHz, ANT V

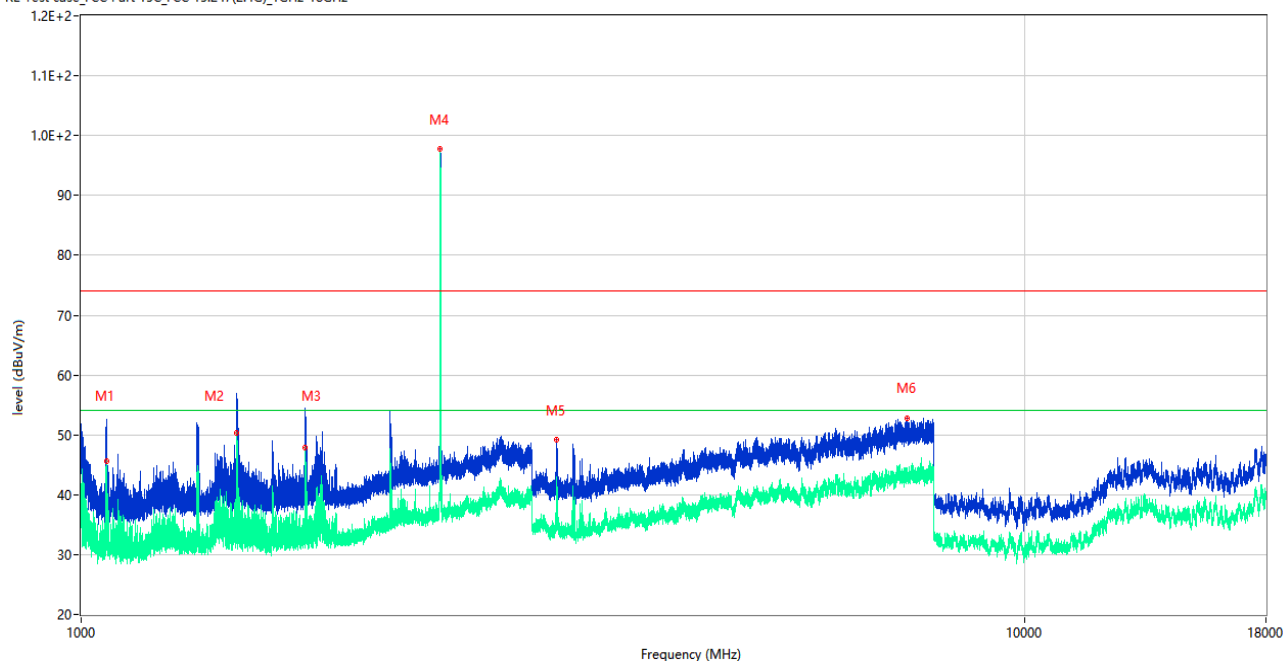
RE Test case FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1066.100	40.04	-20.27	74.0	-33.96	Peak	0.00	400	Vertical	Pass
1**	1066.100	48.42	-20.27	54.0	-5.58	AV	0.00	400	Vertical	Pass
2	1464.200	43.75	-19.57	74.0	-30.25	Peak	111.00	300	Vertical	Pass
2**	1464.200	47.89	-19.57	54.0	-6.11	AV	111.00	300	Vertical	Pass
3	1594.300	52.91	-19.57	74.0	-21.09	Peak	144.00	200	Vertical	Pass
3**	1594.300	48.80	-19.57	54.0	-5.20	AV	144.00	200	Vertical	Pass
4	2479.600	98.82	-14.01	74.0	24.82	Peak	60.00	150	Vertical	N/A
4**	2479.600	97.94	-14.01	54.0	43.94	AV	60.00	150	Vertical	N/A
5	3198.500	49.82	-10.22	74.0	-24.18	Peak	188.00	300	Vertical	Pass
5**	3198.500	48.04	-10.22	54.0	-5.96	AV	188.00	300	Vertical	Pass
6	6374.500	56.18	-4.25	74.0	-17.82	Peak	240.00	150	Vertical	Pass
6**	6374.500	41.96	-4.25	54.0	-12.04	AV	240.00	150	Vertical	Pass

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

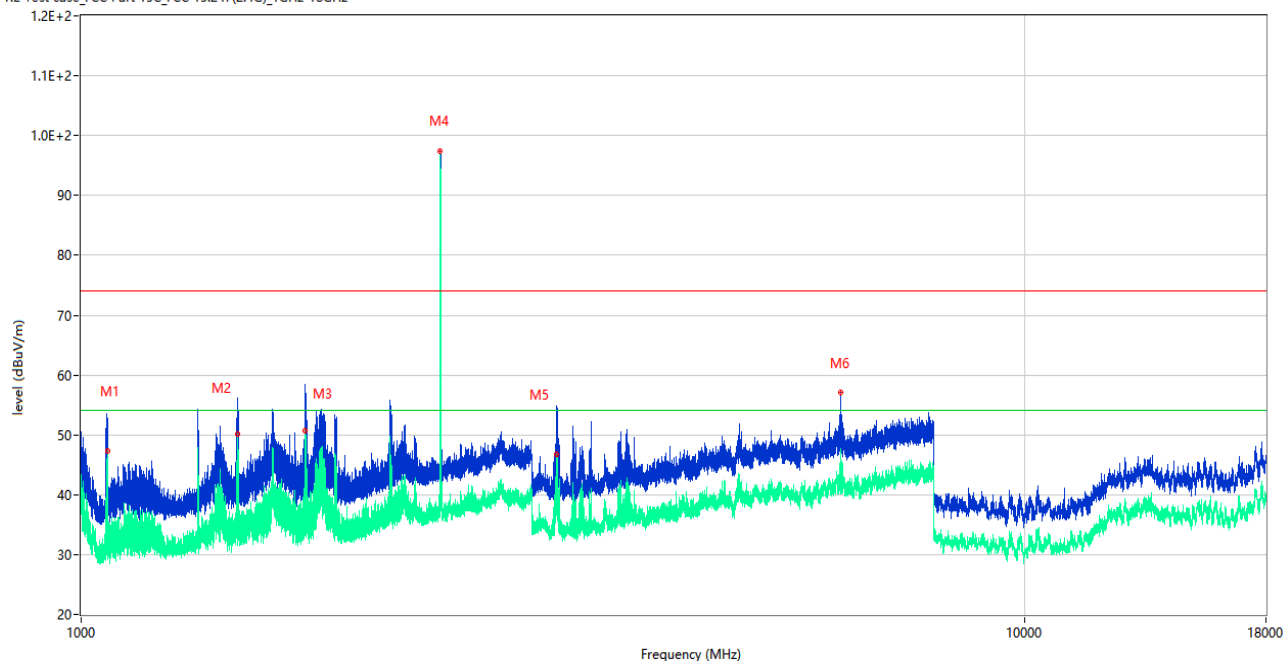
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1063.200	51.49	-20.45	74.0	-22.51	Peak	131.00	300	Horizontal	Pass
1**	1063.200	45.53	-20.45	54.0	-8.47	AV	131.00	300	Horizontal	Pass
2	1462.300	45.53	-19.43	74.0	-28.47	Peak	345.00	200	Horizontal	Pass
2**	1462.300	50.31	-19.43	54.0	-3.69	AV	345.00	200	Horizontal	Pass
3	1727.300	46.87	-19.15	74.0	-27.13	Peak	73.00	150	Horizontal	Pass
3**	1727.300	47.78	-19.15	54.0	-6.22	AV	73.00	150	Horizontal	Pass
4	2401.500	97.69	-14.92	74.0	23.69	Peak	73.00	200	Horizontal	N/A
4**	2401.500	95.40	-14.92	54.0	41.40	AV	73.00	200	Horizontal	N/A
5	3185.500	49.16	-10.04	74.0	-24.84	Peak	143.00	150	Horizontal	Pass
5**	3185.500	36.90	-10.04	54.0	-17.10	AV	143.00	150	Horizontal	Pass
6	7498.250	52.79	-0.03	74.0	-21.21	Peak	181.00	150	Horizontal	Pass
6**	7498.250	43.92	-0.03	54.0	-10.08	AV	181.00	150	Horizontal	Pass

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

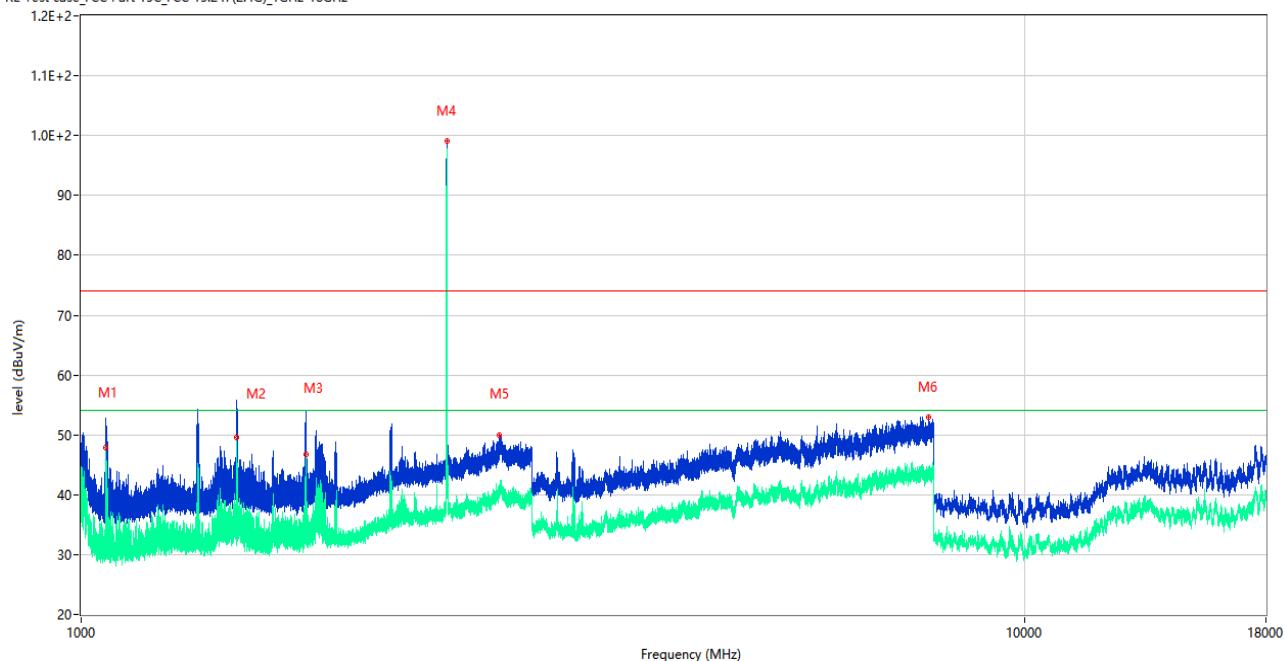
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1065.900	52.01	-20.35	74.0	-21.99	Peak	5.00	150	Vertical	Pass
1**	1065.900	47.33	-20.35	54.0	-6.67	AV	5.00	150	Vertical	Pass
2	1466.200	42.74	-19.49	74.0	-31.26	Peak	5.00	300	Vertical	Pass
2**	1466.200	50.11	-19.49	54.0	-3.89	AV	5.00	300	Vertical	Pass
3	1728.600	49.93	-19.32	74.0	-24.07	Peak	157.00	150	Vertical	Pass
3**	1728.600	50.77	-19.32	54.0	-3.23	AV	157.00	150	Vertical	Pass
4	2401.500	97.41	-14.92	74.0	23.41	Peak	64.00	200	Vertical	N/A
4**	2401.500	93.64	-14.92	54.0	39.64	AV	64.00	200	Vertical	N/A
5	3186.250	46.24	-9.92	74.0	-27.76	Peak	206.00	150	Vertical	Pass
5**	3186.250	46.82	-9.92	54.0	-7.18	AV	206.00	150	Vertical	Pass
6	6380.250	57.13	-4.31	74.0	-16.87	Peak	223.00	200	Vertical	Pass
6**	6380.250	41.60	-4.31	54.0	-12.40	AV	223.00	200	Vertical	Pass

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

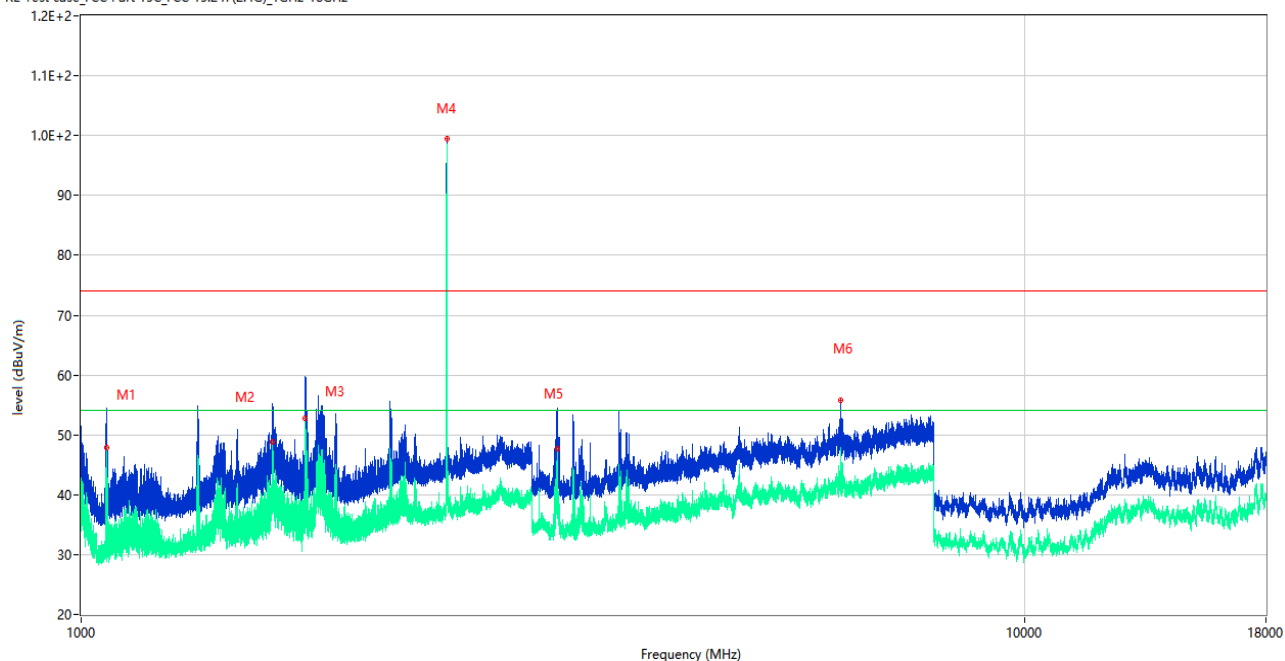
RE Test case FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1062.500	49.23	-20.57	74.0	-24.77	Peak	57.00	300	Horizontal	Pass
1**	1062.500	47.82	-20.57	54.0	-6.18	AV	57.00	300	Horizontal	Pass
2	1462.600	43.05	-19.42	74.0	-30.95	Peak	252.00	150	Horizontal	Pass
2**	1462.600	49.62	-19.42	54.0	-4.38	AV	252.00	150	Horizontal	Pass
3	1731.000	52.59	-19.31	74.0	-21.41	Peak	184.00	200	Horizontal	Pass
3**	1731.000	46.70	-19.31	54.0	-7.30	AV	184.00	200	Horizontal	Pass
4	2440.400	99.10	-14.64	74.0	25.10	Peak	82.00	150	Horizontal	N/A
4**	2440.400	96.73	-14.64	54.0	42.73	AV	82.00	150	Horizontal	N/A
5	2775.700	49.98	-11.09	74.0	-24.02	Peak	133.00	150	Horizontal	Pass
5**	2775.700	40.08	-11.09	54.0	-13.92	AV	133.00	150	Horizontal	Pass
6	7911.750	53.02	-0.48	74.0	-20.98	Peak	206.00	200	Horizontal	Pass
6**	7911.750	44.40	-0.48	54.0	-9.60	AV	206.00	200	Horizontal	Pass

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

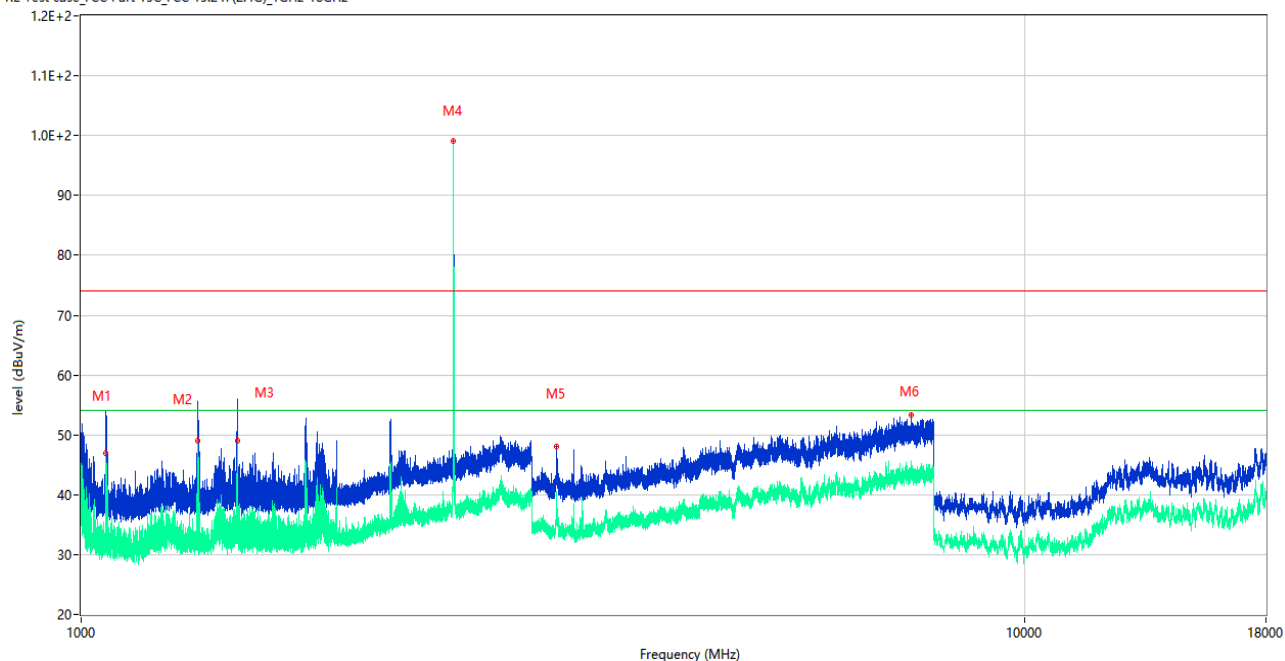
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1063.600	47.08	-20.46	74.0	-26.92	Peak	109.00	200	Vertical	Pass
1**	1063.600	47.86	-20.46	54.0	-6.14	AV	109.00	200	Vertical	Pass
2	1594.600	49.60	-19.75	74.0	-24.40	Peak	259.00	150	Vertical	Pass
2**	1594.600	48.77	-19.75	54.0	-5.23	AV	259.00	150	Vertical	Pass
3	1726.200	43.99	-19.08	74.0	-30.01	Peak	0.00	150	Vertical	Pass
3**	1726.200	52.71	-19.08	54.0	-1.29	AV	0.00	150	Vertical	Pass
4	2440.500	99.49	-14.57	74.0	25.49	Peak	60.00	150	Vertical	N/A
4**	2440.500	97.50	-14.57	54.0	43.50	AV	60.00	150	Vertical	N/A
5	3199.000	48.42	-10.26	74.0	-25.58	Peak	0.00	200	Vertical	Pass
5**	3199.000	47.65	-10.26	54.0	-6.35	AV	0.00	200	Vertical	Pass
6	6371.750	55.73	-4.13	74.0	-18.27	Peak	251.00	300	Vertical	Pass
6**	6371.750	42.07	-4.13	54.0	-11.93	AV	251.00	300	Vertical	Pass

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

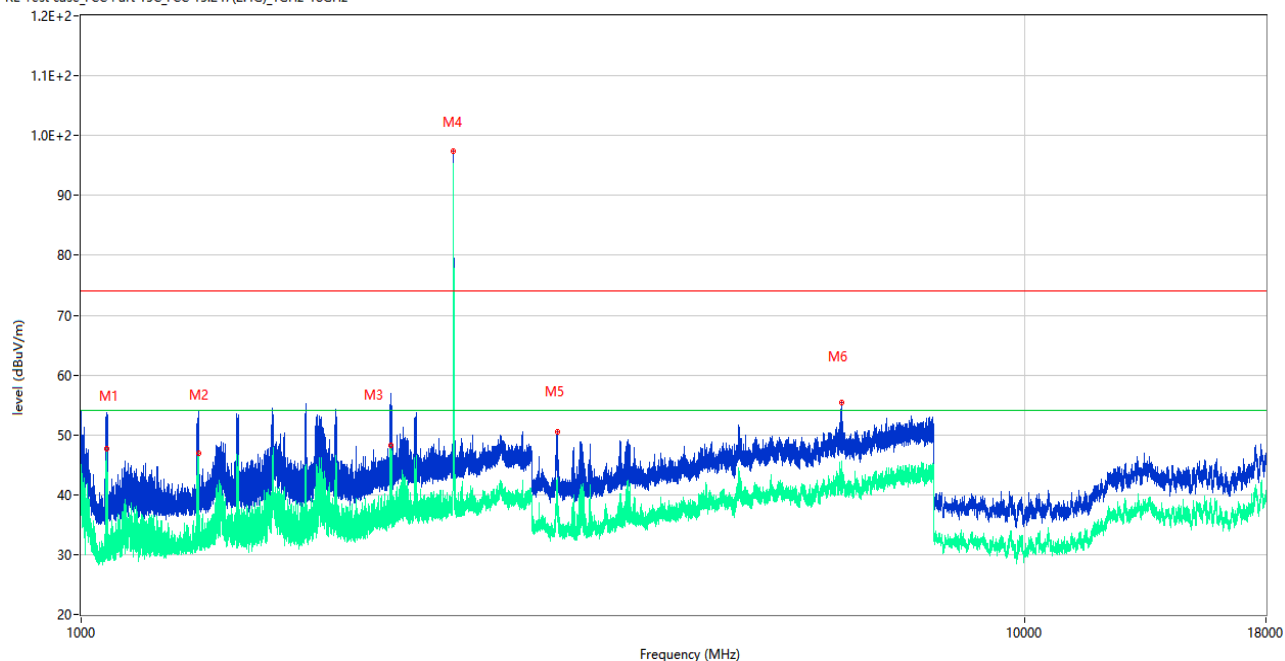
RE Test case FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1063.000	41.65	-20.56	74.0	-32.35	Peak	354.00	200	Horizontal	Pass
1**	1063.000	46.89	-20.56	54.0	-7.11	AV	354.00	200	Horizontal	Pass
2	1329.100	48.46	-19.33	74.0	-25.54	Peak	81.00	100	Horizontal	Pass
2**	1329.100	48.97	-19.33	54.0	-5.03	AV	81.00	100	Horizontal	Pass
3	1463.000	52.47	-19.86	74.0	-21.53	Peak	4.00	150	Horizontal	Pass
3**	1463.000	48.95	-19.86	54.0	-5.05	AV	4.00	150	Horizontal	Pass
4	2479.300	99.00	-13.77	74.0	25.00	Peak	73.00	300	Horizontal	N/A
4**	2479.300	96.31	-13.77	54.0	42.31	AV	73.00	300	Horizontal	N/A
5	3187.000	48.11	-9.60	74.0	-25.89	Peak	318.00	200	Horizontal	Pass
5**	3187.000	37.56	-9.60	54.0	-16.44	AV	318.00	200	Horizontal	Pass
6	7584.500	53.33	-0.43	74.0	-20.67	Peak	355.00	300	Horizontal	Pass
6**	7584.500	44.90	-0.43	54.0	-9.10	AV	355.00	300	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1065.600	40.15	-20.44	74.0	-33.85	Peak	353.00	200	Vertical	Pass
1**	1065.600	47.68	-20.44	54.0	-6.32	AV	353.00	200	Vertical	Pass
2	1330.600	45.51	-19.33	74.0	-28.49	Peak	229.00	150	Vertical	Pass
2**	1330.600	46.95	-19.33	54.0	-7.05	AV	229.00	150	Vertical	Pass
3	2126.900	45.09	-15.61	74.0	-28.91	Peak	360.00	100	Vertical	Pass
3**	2126.900	48.20	-15.61	54.0	-5.80	AV	360.00	100	Vertical	Pass
4	2480.700	97.35	-13.83	74.0	23.35	Peak	73.00	300	Vertical	N/A
4**	2480.700	93.48	-13.83	54.0	39.48	AV	73.00	300	Vertical	N/A
5	3194.250	50.53	-10.20	74.0	-23.47	Peak	100.00	200	Vertical	Pass
5**	3194.250	41.12	-10.20	54.0	-12.88	AV	100.00	200	Vertical	Pass
6	6399.250	55.32	-4.64	74.0	-18.68	Peak	232.00	100	Vertical	Pass
6**	6399.250	41.15	-4.64	54.0	-12.85	AV	232.00	100	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.

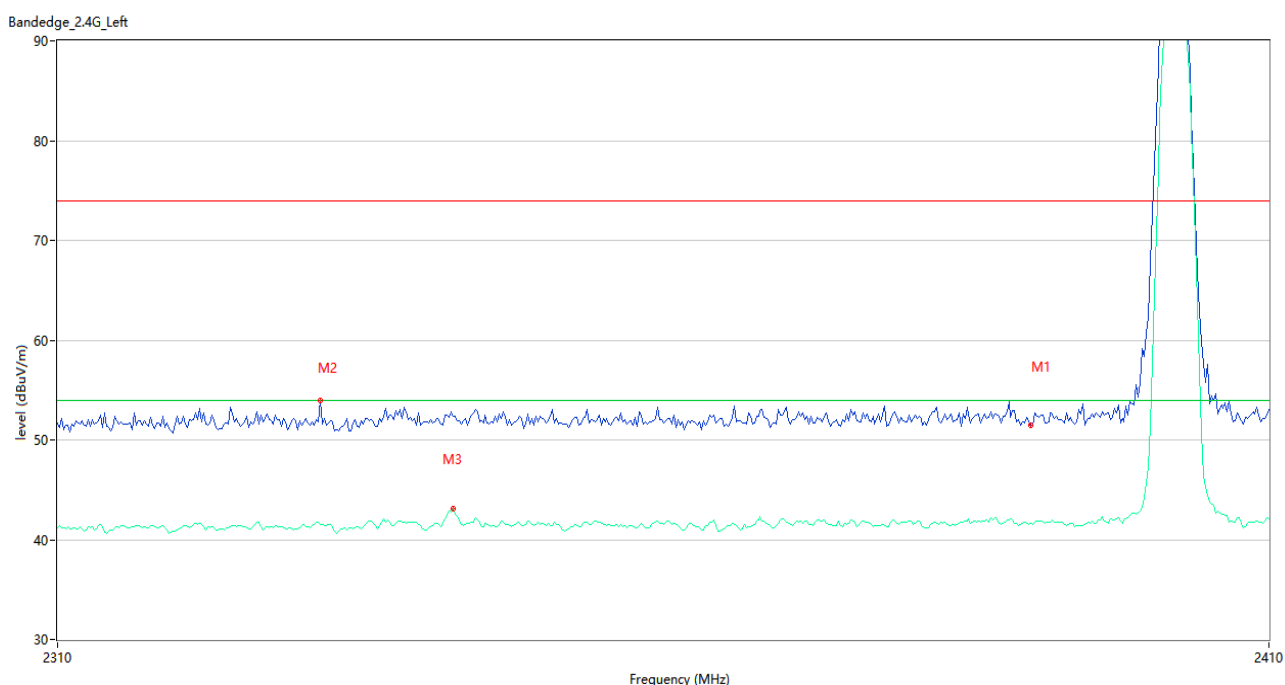
Note ²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

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.

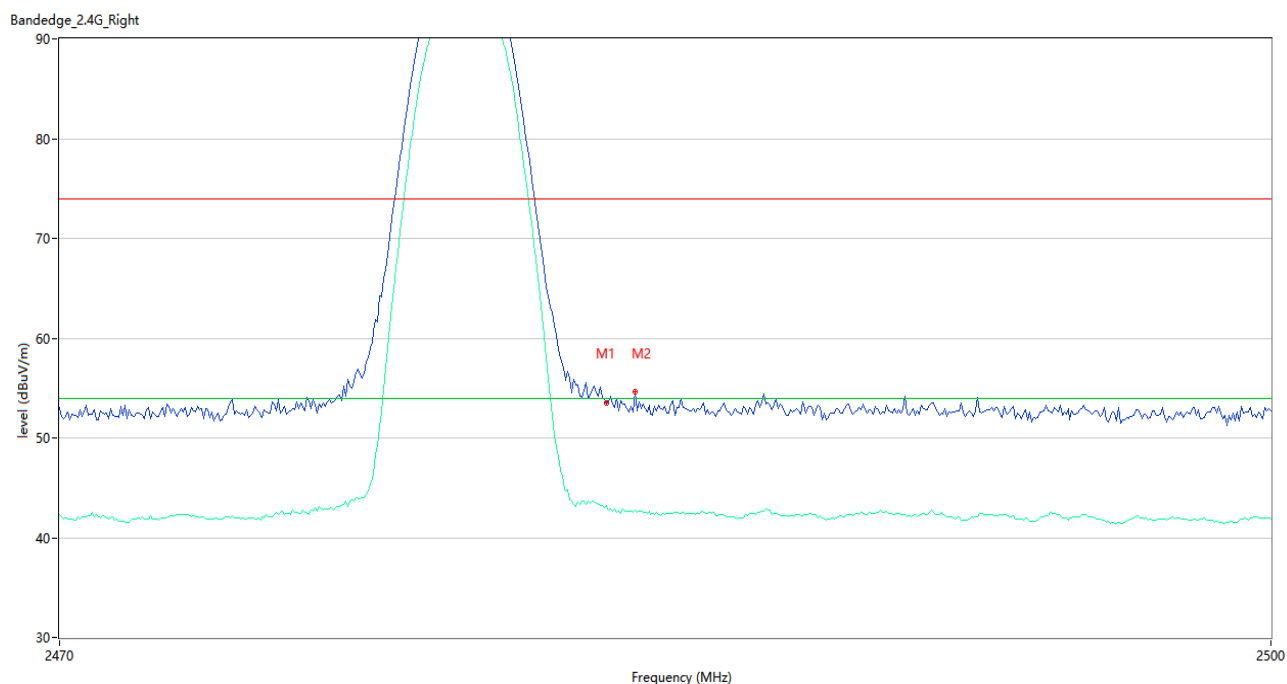
Test Data and Plots

GFSK (BLE 1Mbps) LOW CHANNEL



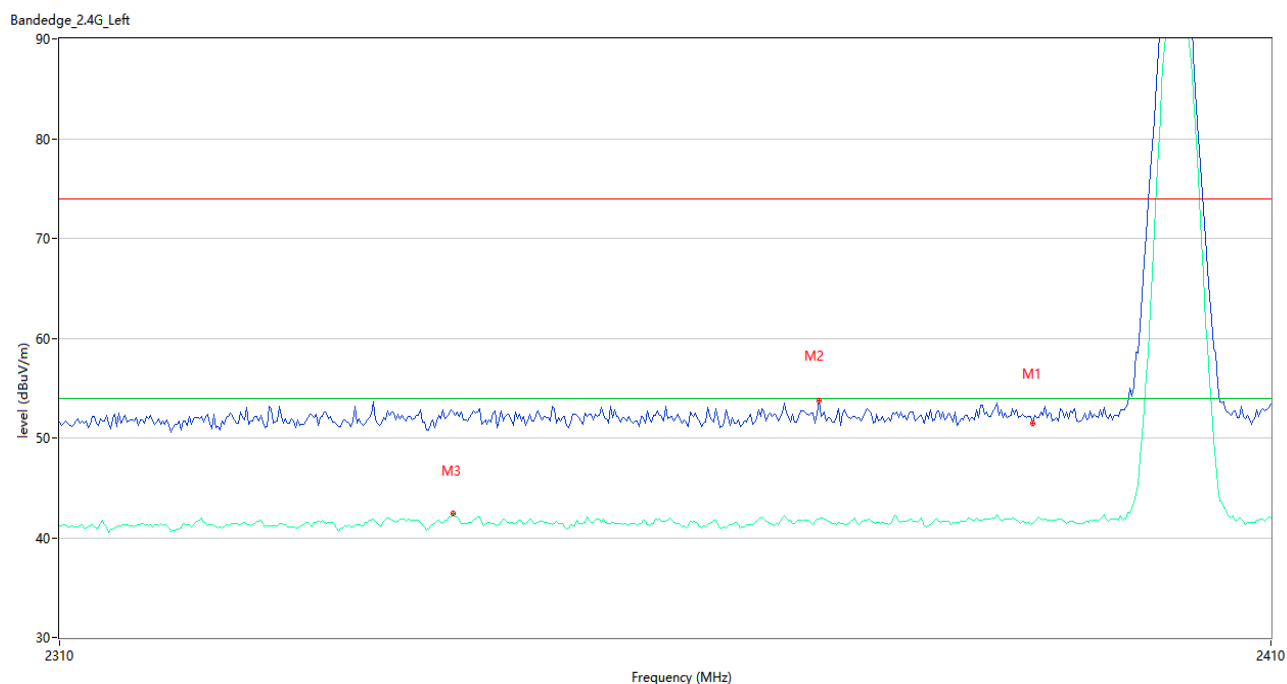
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	51.49	-3.52	74.0	-22.51	Peak	78.00	150	Horizontal	Pass
1**	2390.000	41.60	-3.52	54.0	-12.40	AV	78.00	150	Horizontal	Pass
2	2331.333	53.94	-3.10	74.0	-20.06	Peak	48.00	150	Horizontal	Pass
2**	2331.333	41.53	-3.10	54.0	-12.47	AV	48.00	150	Horizontal	Pass
3	2342.167	52.32	-2.95	74.0	-21.68	Peak	328.00	150	Horizontal	Pass
3**	2342.167	43.06	-2.95	54.0	-10.94	AV	328.00	150	Horizontal	Pass

GFSK (BLE 1Mbps) HIGH CHANNEL



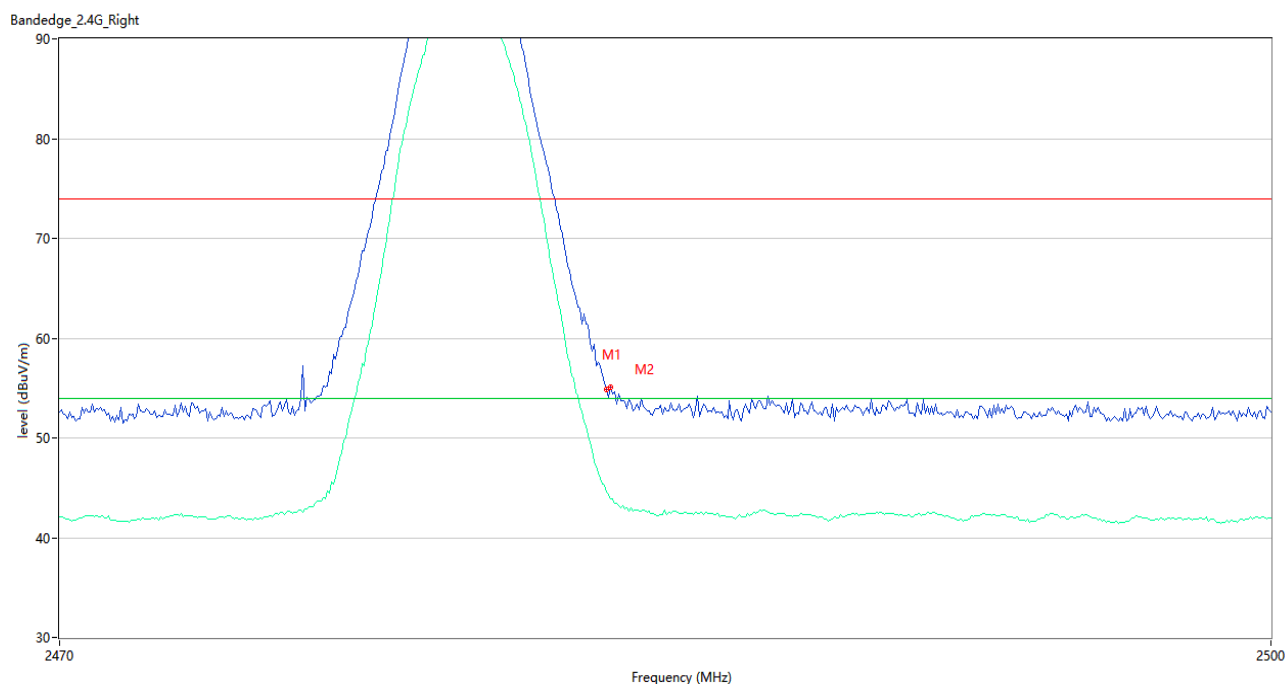
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	53.47	-2.54	74.0	-20.53	Peak	279.00	150	Horizontal	Pass
1**	2483.500	43.19	-2.54	54.0	-10.81	AV	279.00	150	Horizontal	Pass
2	2484.200	54.62	-2.51	74.0	-19.38	Peak	265.00	150	Horizontal	Pass
2**	2484.200	42.75	-2.51	54.0	-11.25	AV	265.00	150	Horizontal	Pass

GFSK (BLE 2Mbps) LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	51.50	-3.52	74.0	-22.50	Peak	315.00	150	Horizontal	Pass
1**	2390.000	41.37	-3.52	54.0	-12.63	AV	315.00	150	Horizontal	Pass
2	2372.167	53.76	-2.82	74.0	-20.24	Peak	110.00	150	Horizontal	Pass
2**	2372.167	41.85	-2.82	54.0	-12.15	AV	110.00	150	Horizontal	Pass
3	2342.000	52.63	-2.85	74.0	-21.37	Peak	291.00	150	Horizontal	Pass
3**	2342.000	42.48	-2.85	54.0	-11.52	AV	291.00	150	Horizontal	Pass

GFSK (BLE 2Mbps) HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	54.88	-2.54	74.0	-19.12	Peak	122.00	150	Horizontal	Pass
1**	2483.500	44.57	-2.54	54.0	-9.43	AV	122.00	150	Horizontal	Pass
2	2483.600	55.10	-2.59	74.0	-18.90	Peak	316.00	150	Horizontal	Pass
2**	2483.600	43.91	-2.59	54.0	-10.09	AV	316.00	150	Horizontal	Pass

A.8 Power Spectral Density (PSD)

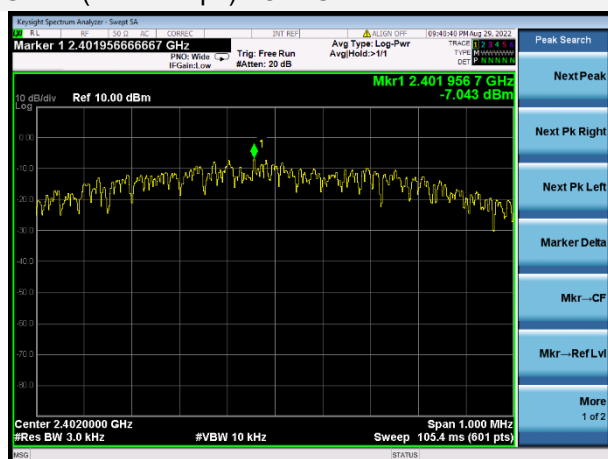
Test Data

GFSK (BLE 1Mbps)			
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low Channel	-7.04	8	Pass
Middle Channel	-7.13	8	Pass
High Channel	-7.19	8	Pass

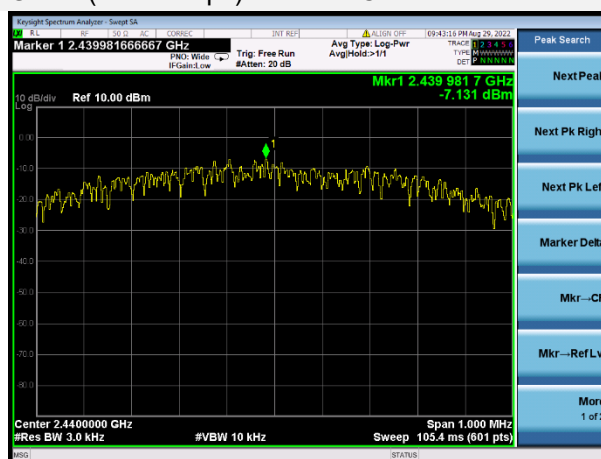
GFSK (BLE 2Mbps)			
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low Channel	-9.93	8	Pass
Middle Channel	-9.26	8	Pass
High Channel	-9.15	8	Pass

Test Plots

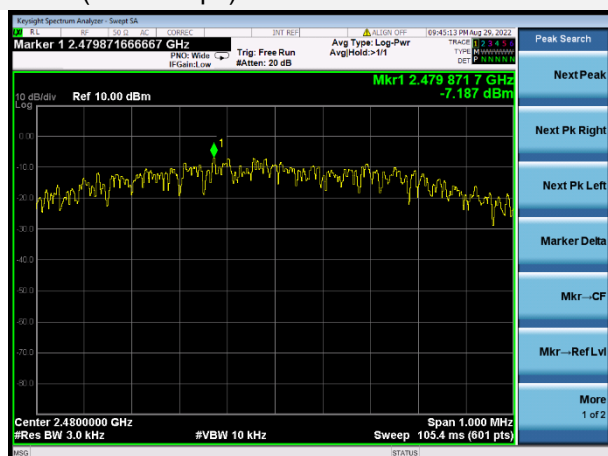
GFSK (BLE 1Mbps) LOW CHANNEL



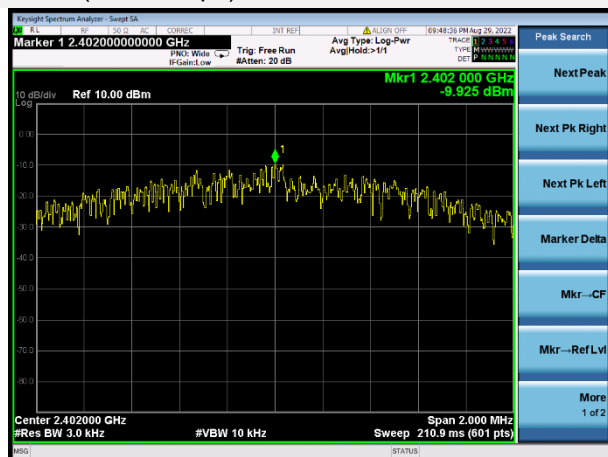
GFSK (BLE 1Mbps) MIDDLE CHANNEL



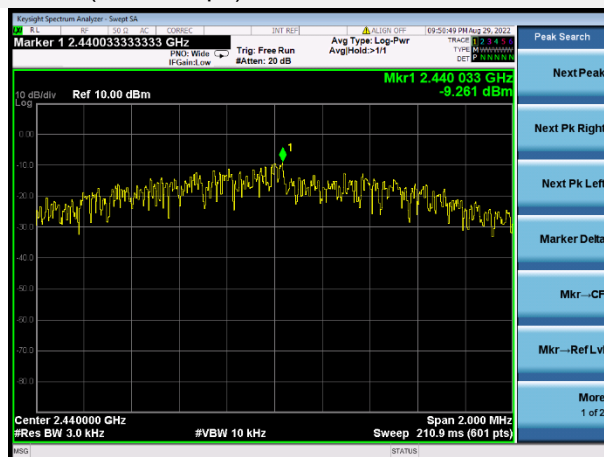
GFSK (BLE 1Mbps) HIGH CHANNEL



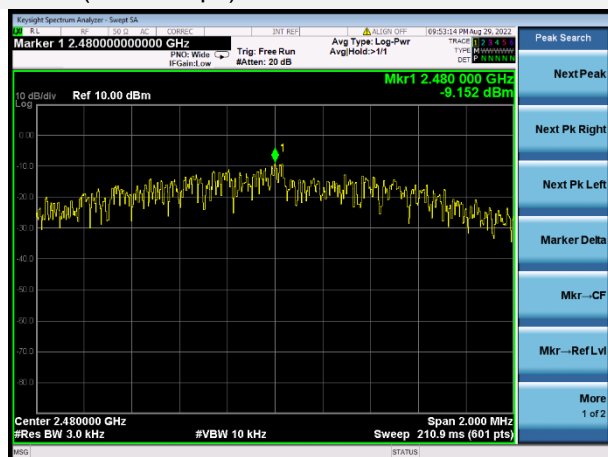
GFSK (BLE 2Mbps) LOW CHANNEL



GFSK (BLE 2Mbps) MIDDLE CHANNEL



GFSK (BLE 2Mbps) HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2280937-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2280937-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2280937-AI.PDF”.

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--END OF REPORT--