

A.3 Conducted Spurious Emissions

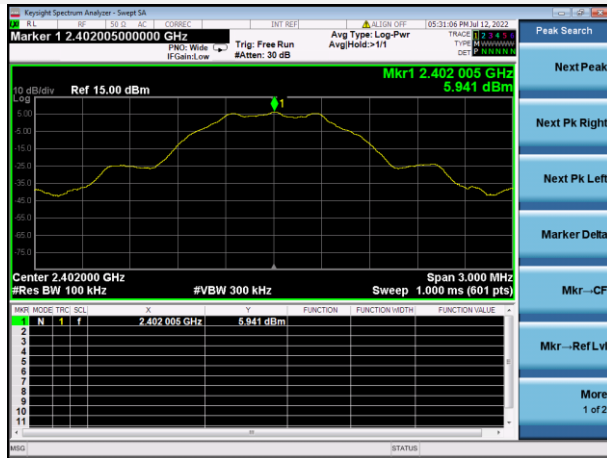
Test Data

GFSK (BLE 1Mbps)				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-41.33	5.94	-14.06	Pass
Middle Channel	-44.08	6.21	-13.79	Pass
High Channel	-45.42	6.15	-13.85	Pass

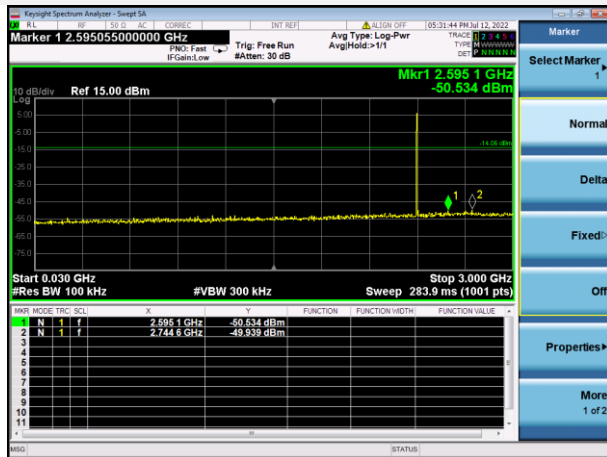
GFSK (BLE 2Mbps)				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-46.43	5.87	-14.13	Pass
Middle Channel	-45.52	6.21	-13.79	Pass
High Channel	-44.62	6.18	-13.82	Pass

Test Plots

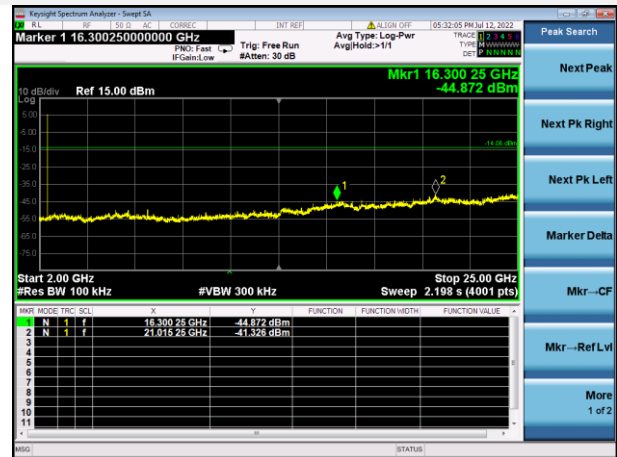
GFSK (BLE 1Mbps) LOW CHANNEL, CARRIER LEVEL



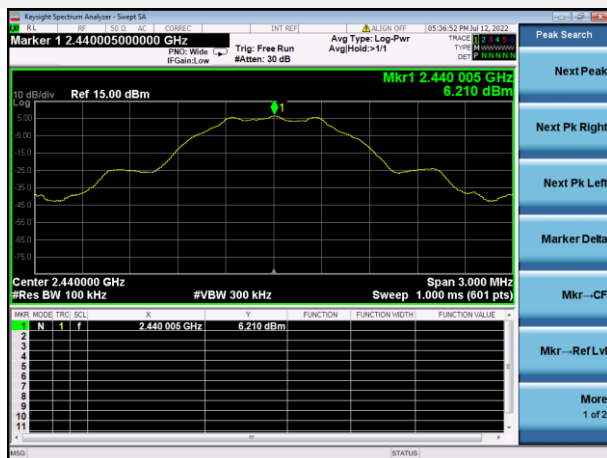
GFSK (BLE 1Mbps) LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



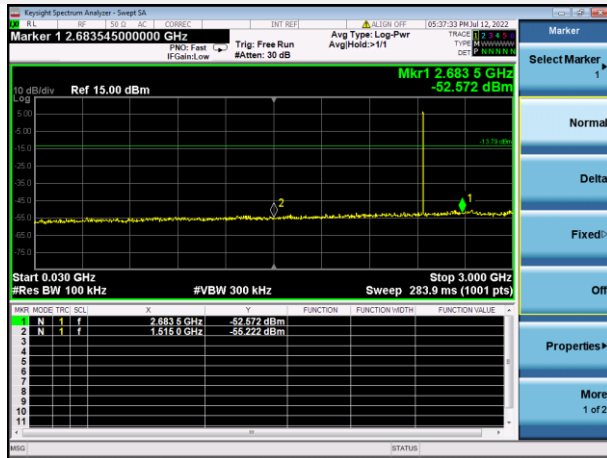
GFSK (BLE 1Mbps) LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



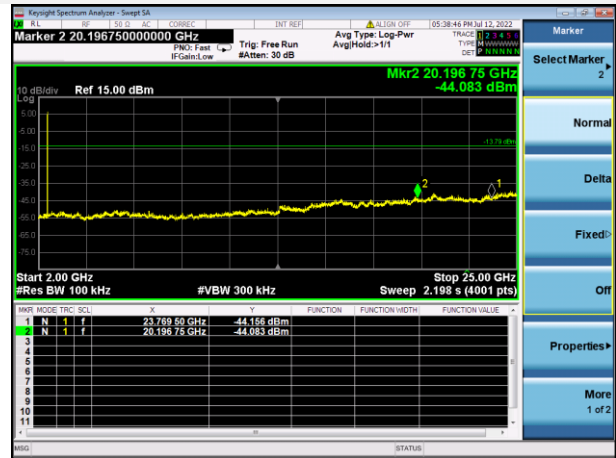
GFSK (BLE 1Mbps) MIDDLE CHANNEL, CARRIER LEVEL



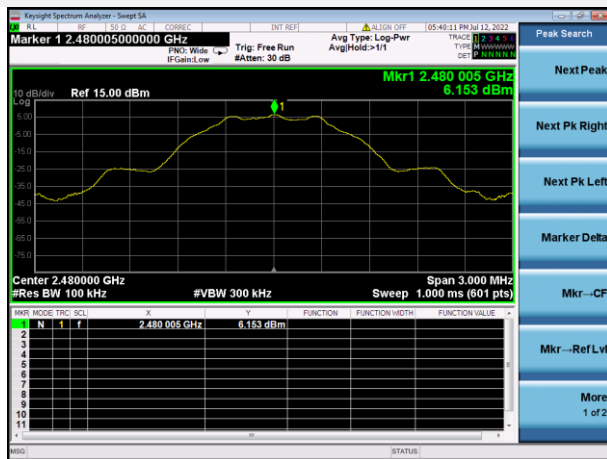
GFSK (BLE 1Mbps) MIDDLE CHANNEL,
SPURIOUS 30 MHz ~ 3 GHz



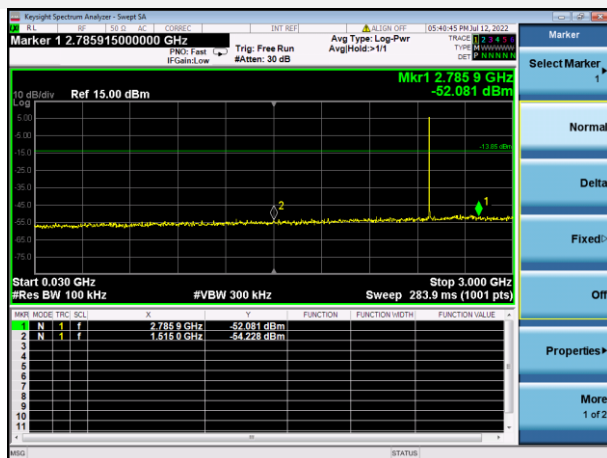
GFSK (BLE 1Mbps) MIDDLE CHANNEL,
SPURIOUS 2 GHz ~ 25 GHz



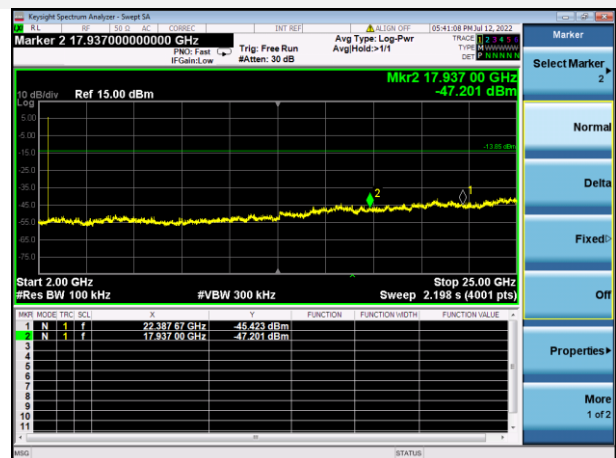
GFSK (BLE 1Mbps) HIGH CHANNEL,
CARRIER LEVEL



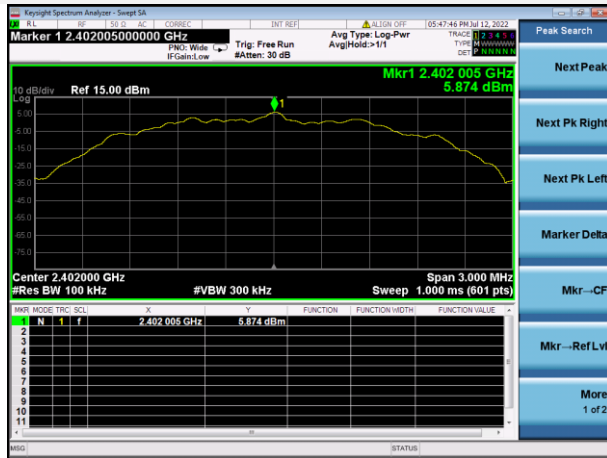
GFSK (BLE 1Mbps) HIGH CHANNEL,
SPURIOUS 30 MHz ~ 3 GHz



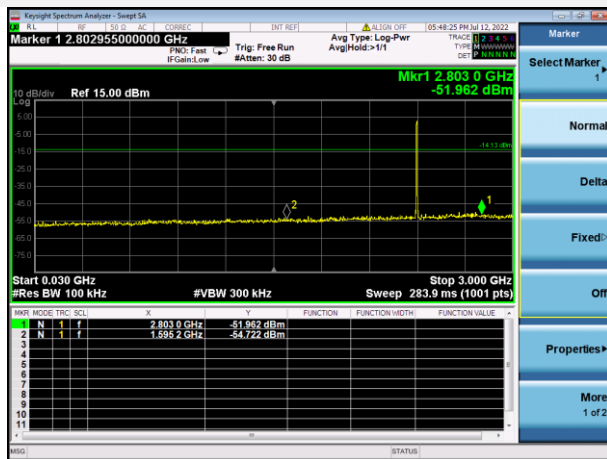
GFSK (BLE 1Mbps) HIGH CHANNEL,
SPURIOUS 2 GHz ~ 25 GHz



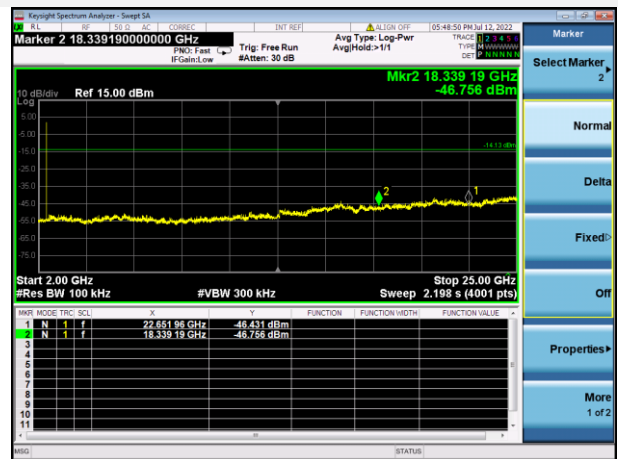
GFSK (BLE 2Mbps) LOW CHANNEL, CARRIER LEVEL



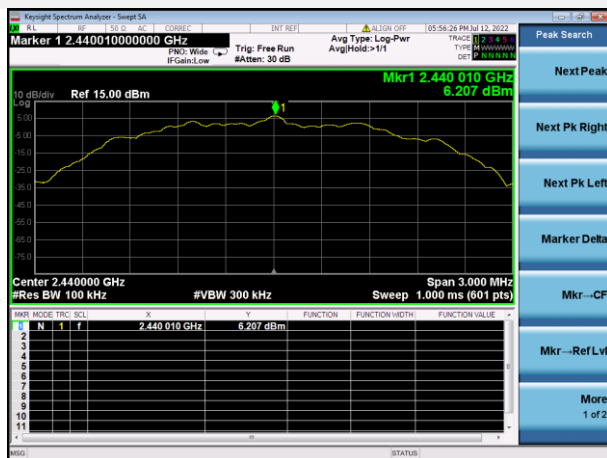
GFSK (BLE 2Mbps) LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



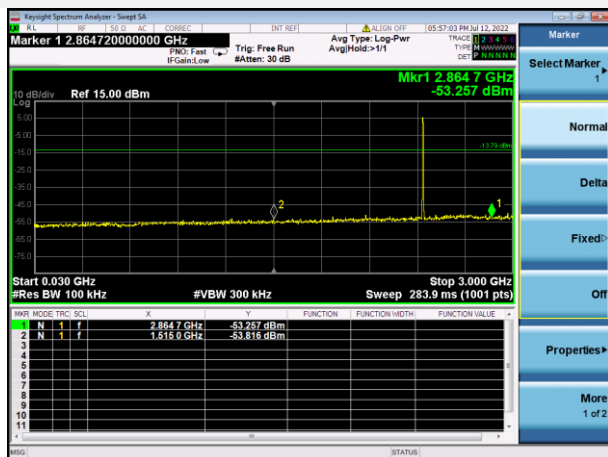
GFSK (BLE 2Mbps) LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



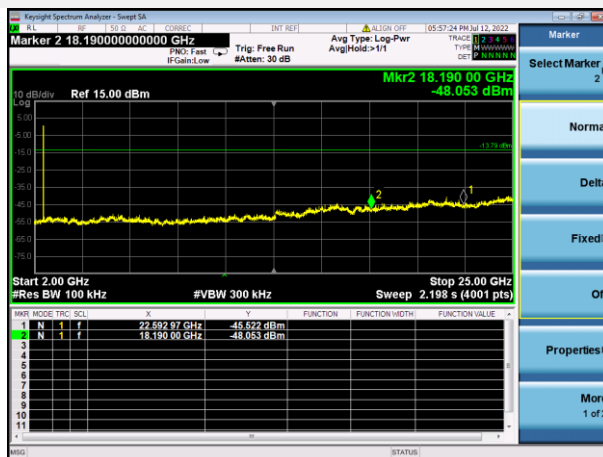
GFSK (BLE 2Mbps) MIDDLE CHANNEL, CARRIER LEVEL



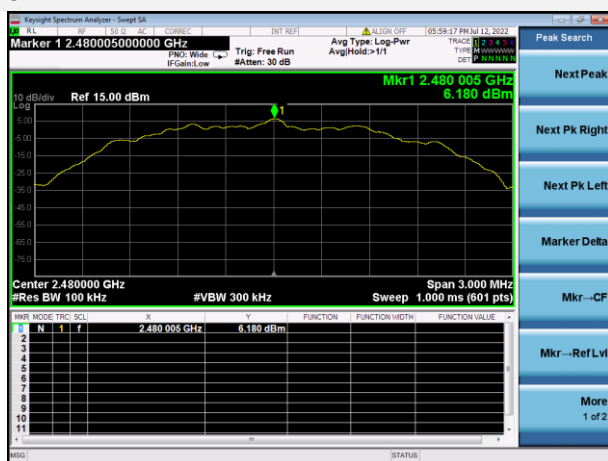
GFSK (BLE 2Mbps) MIDDLE CHANNEL,
SPURIOUS 30 MHz ~ 3 GHz



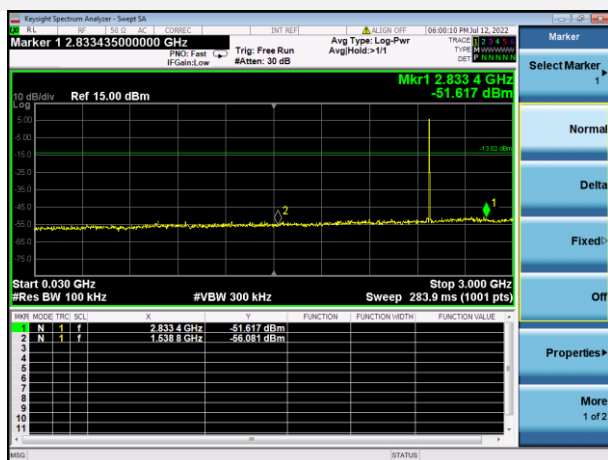
GFSK (BLE 2Mbps) MIDDLE CHANNEL,
SPURIOUS 2 GHz ~ 25 GHz



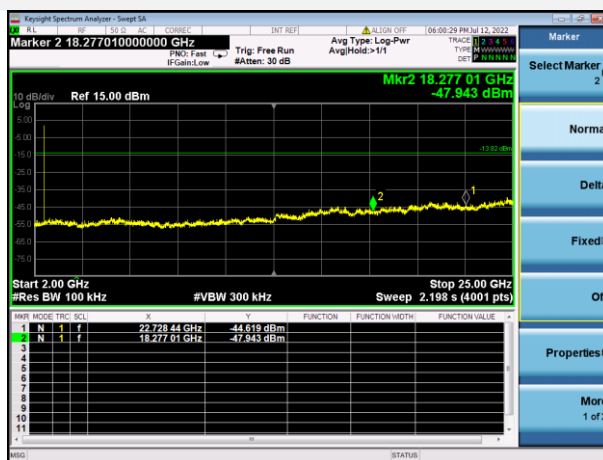
GFSK (BLE 2Mbps) HIGH CHANNEL,
CARRIER LEVEL



GFSK (BLE 2Mbps) HIGH CHANNEL,
SPURIOUS 30 MHz ~ 3 GHz



GFSK (BLE 2Mbps) HIGH CHANNEL,
SPURIOUS 2 GHz ~ 25 GHz



A.4 Band Edge (Authorized-band band-edge)

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

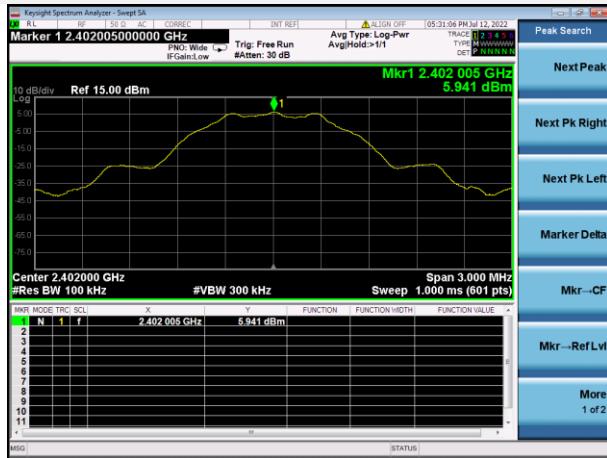
Test Data

GFSK (BLE 1Mbps)				
Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-51.77	5.94	-14.06	Pass
High Channel	-53.13	6.15	-13.85	Pass

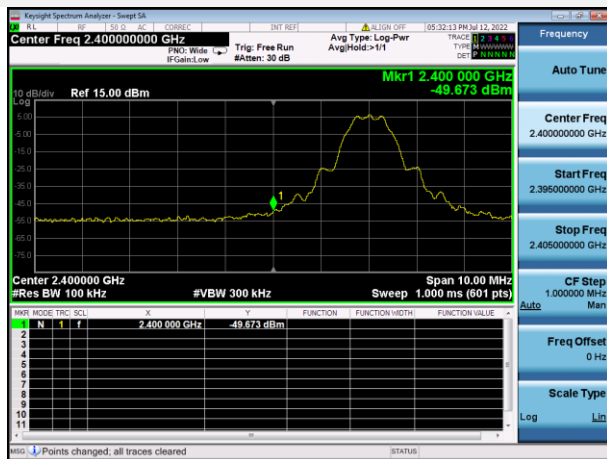
GFSK (BLE 2Mbps)				
Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-38.41	5.87	-14.13	Pass
High Channel	-52.48	6.18	-13.82	Pass

Test Plots

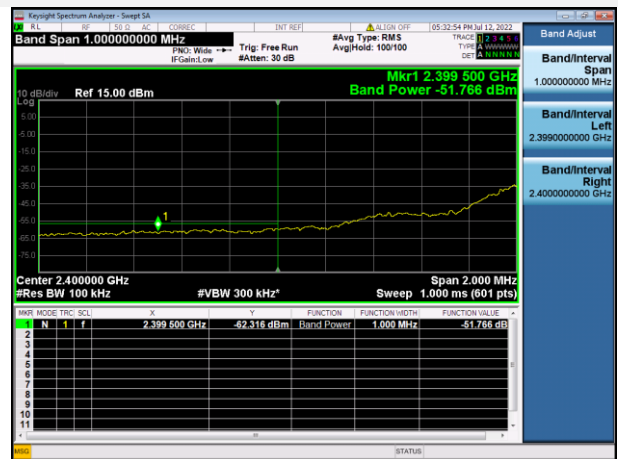
GFSK (BLE 1Mbps) LOW CHANNEL, CARRIER LEVEL



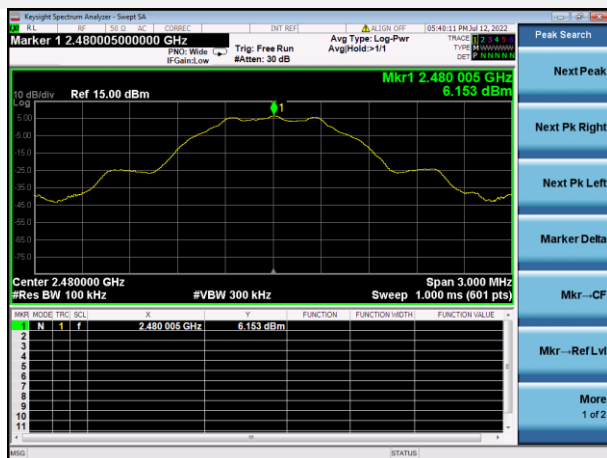
GFSK (BLE 1Mbps) LOW CHANNEL, REFERENCE LEVEL



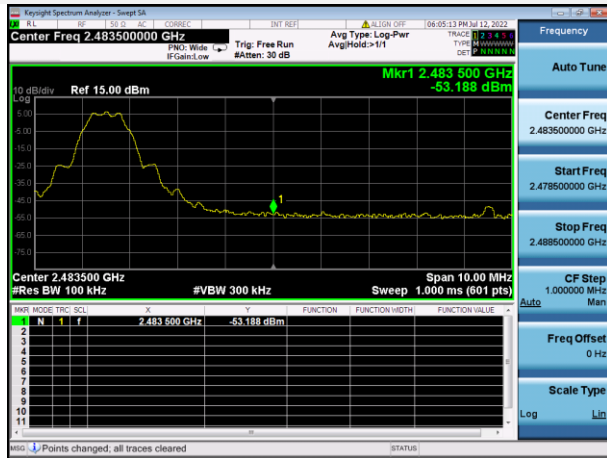
GFSK (BLE 1Mbps) LOW CHANNEL, BAND EDGE



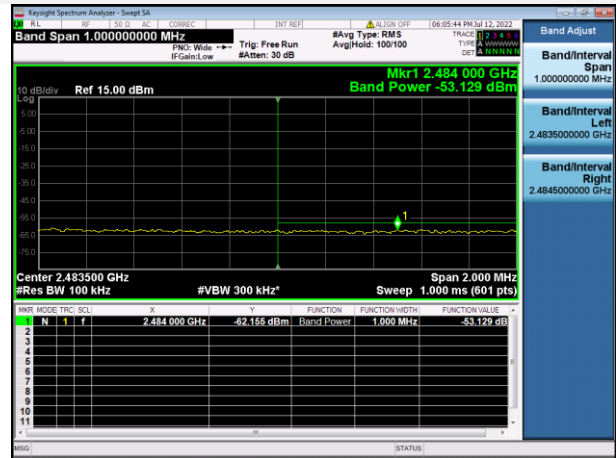
GFSK (BLE 1Mbps) HIGH CHANNEL, CARRIER LEVEL



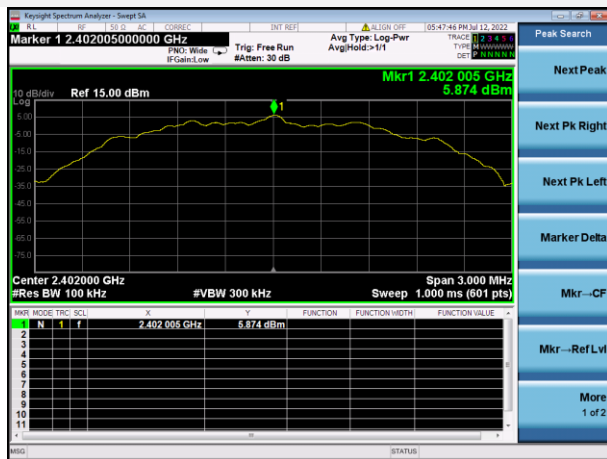
GFSK (BLE 1Mbps) HIGH CHANNEL, REFERENCE LEVEL



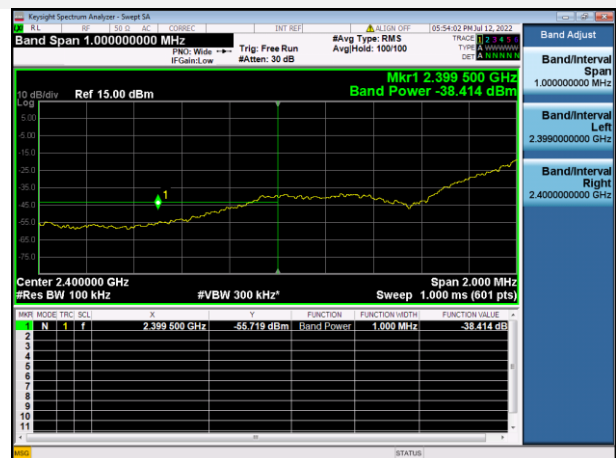
GFSK (BLE 1Mbps) HIGH CHANNEL, BAND EDGE



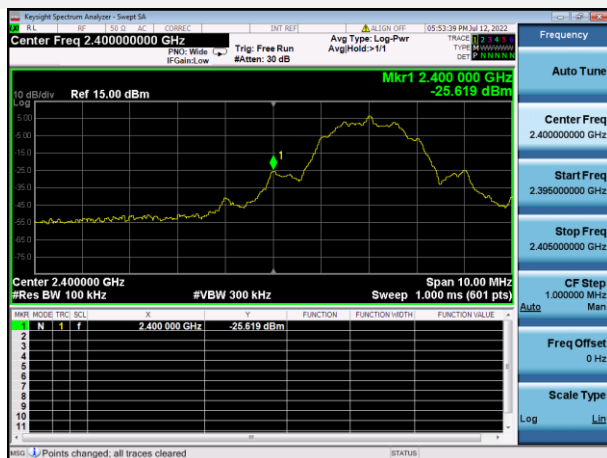
GFSK (BLE 2Mbps) LOW CHANNEL, CARRIER LEVEL



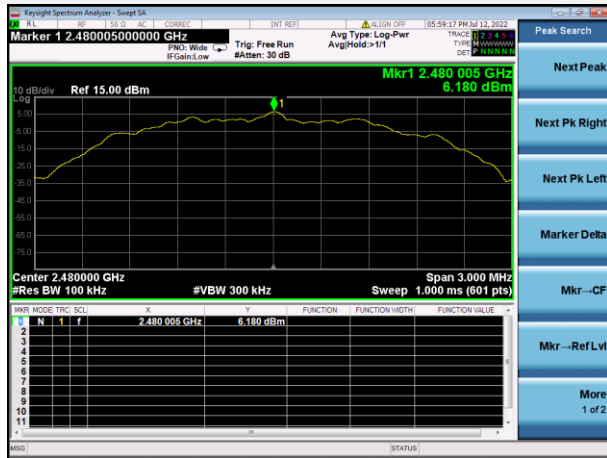
GFSK (BLE 2Mbps) LOW CHANNEL, BAND EDGE



GFSK (BLE 2Mbps) LOW CHANNEL, REFERENCE LEVEL



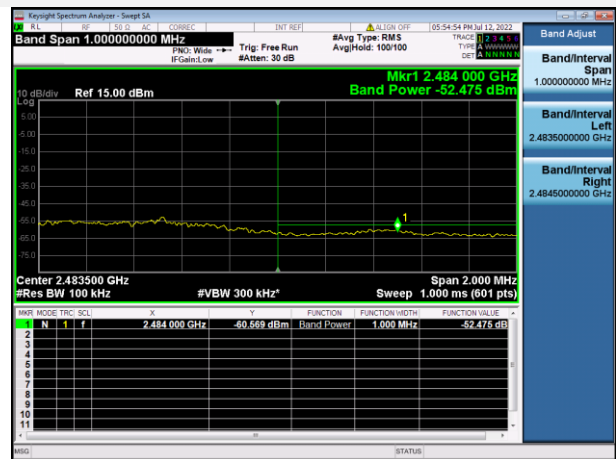
GFSK (BLE 2Mbps) HIGH CHANNEL, CARRIER LEVEL



GFSK (BLE 2Mbps) HIGH CHANNEL, REFERENCE LEVEL



GFSK (BLE 2Mbps) HIGH CHANNEL, BAND EDGE



A.5 Conducted Emissions

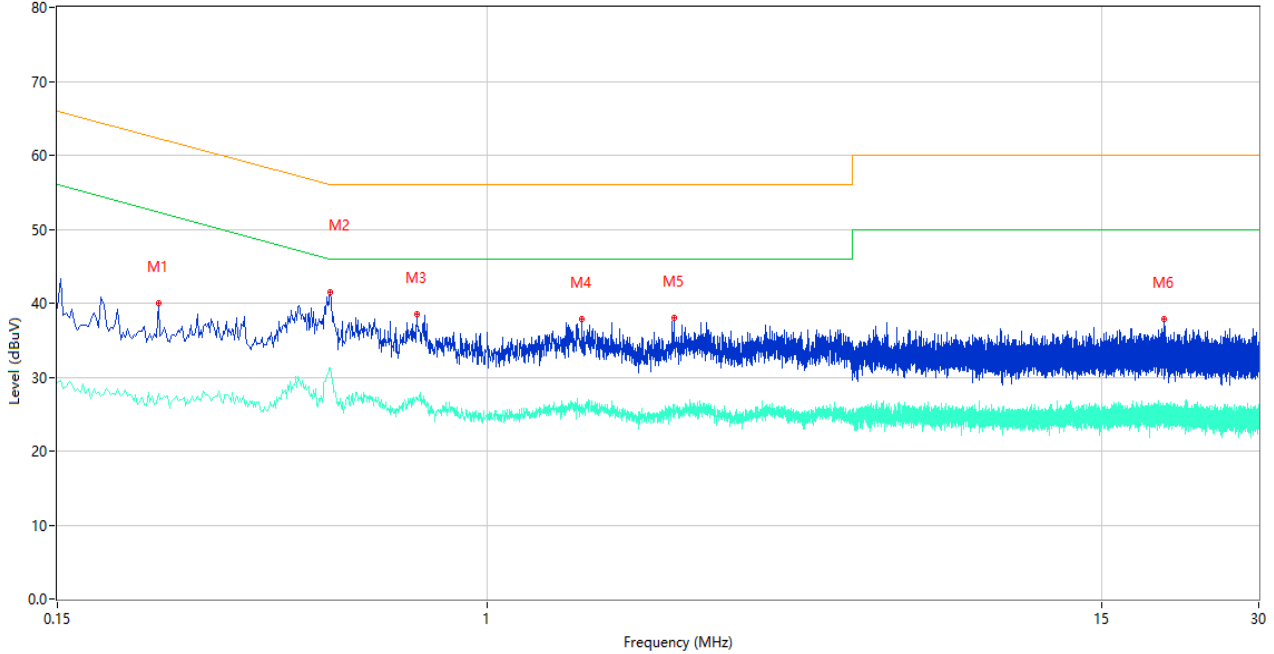
Note 1: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Note 2: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Test Data and Plots

PHASE L

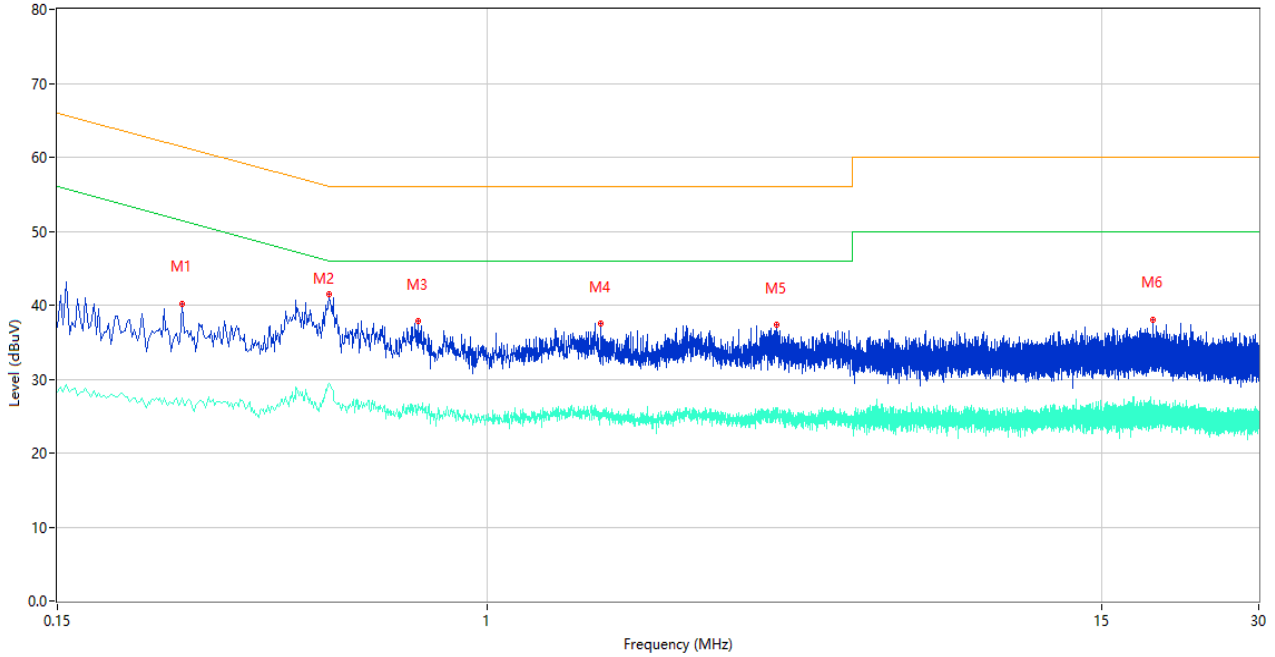
CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.234	40.02	10.93	62.31	-22.29	Peak	L	Pass
1**	0.234	27.70	10.93	52.31	-24.61	AV	L	Pass
2	0.500	41.41	10.92	56.00	-14.59	Peak	L	Pass
2**	0.500	31.19	10.92	46.00	-14.81	AV	L	Pass
3	0.732	38.56	10.82	56.00	-17.44	Peak	L	Pass
3**	0.732	27.01	10.82	46.00	-18.99	AV	L	Pass
4	1.518	37.82	10.73	56.00	-18.18	Peak	L	Pass
4**	1.518	25.87	10.73	46.00	-20.13	AV	L	Pass
5	2.274	37.94	10.74	56.00	-18.06	Peak	L	Pass
5**	2.274	24.46	10.74	46.00	-21.54	AV	L	Pass
6	19.762	37.80	10.71	60.00	-22.20	Peak	L	Pass
6**	19.762	24.86	10.71	50.00	-25.14	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.260	40.21	10.91	61.43	-21.22	Peak	N	Pass
1**	0.260	27.46	10.91	51.43	-23.97	AV	N	Pass
2	0.496	41.41	10.92	56.07	-14.66	Peak	N	Pass
2**	0.496	29.50	10.92	46.07	-16.57	AV	N	Pass
3	0.738	37.80	10.82	56.00	-18.20	Peak	N	Pass
3**	0.738	26.59	10.82	46.00	-19.41	AV	N	Pass
4	1.650	37.51	10.73	56.00	-18.49	Peak	N	Pass
4**	1.650	25.43	10.73	46.00	-20.57	AV	N	Pass
5	3.582	37.36	10.71	56.00	-18.64	Peak	N	Pass
5**	3.582	25.73	10.71	46.00	-20.27	AV	N	Pass
6	18.806	38.05	10.69	60.00	-21.95	Peak	N	Pass
6**	18.806	25.92	10.69	50.00	-24.08	AV	N	Pass

A.6 Radiated Spurious Emission

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

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

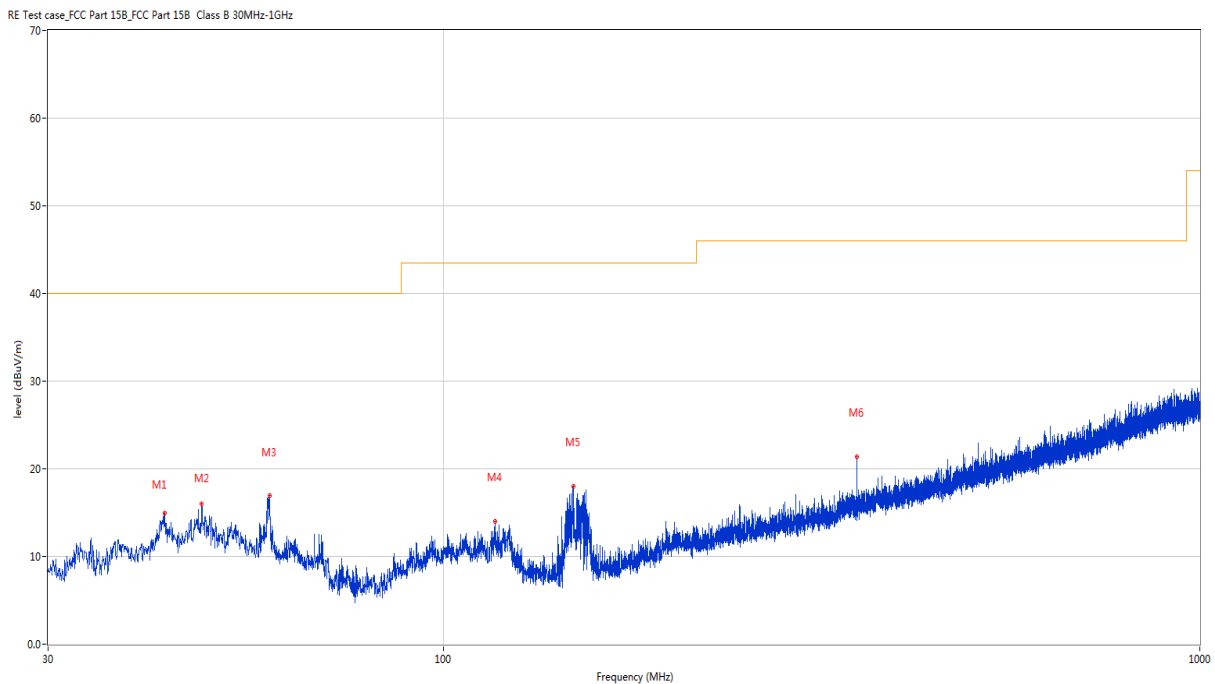
Note ³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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

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

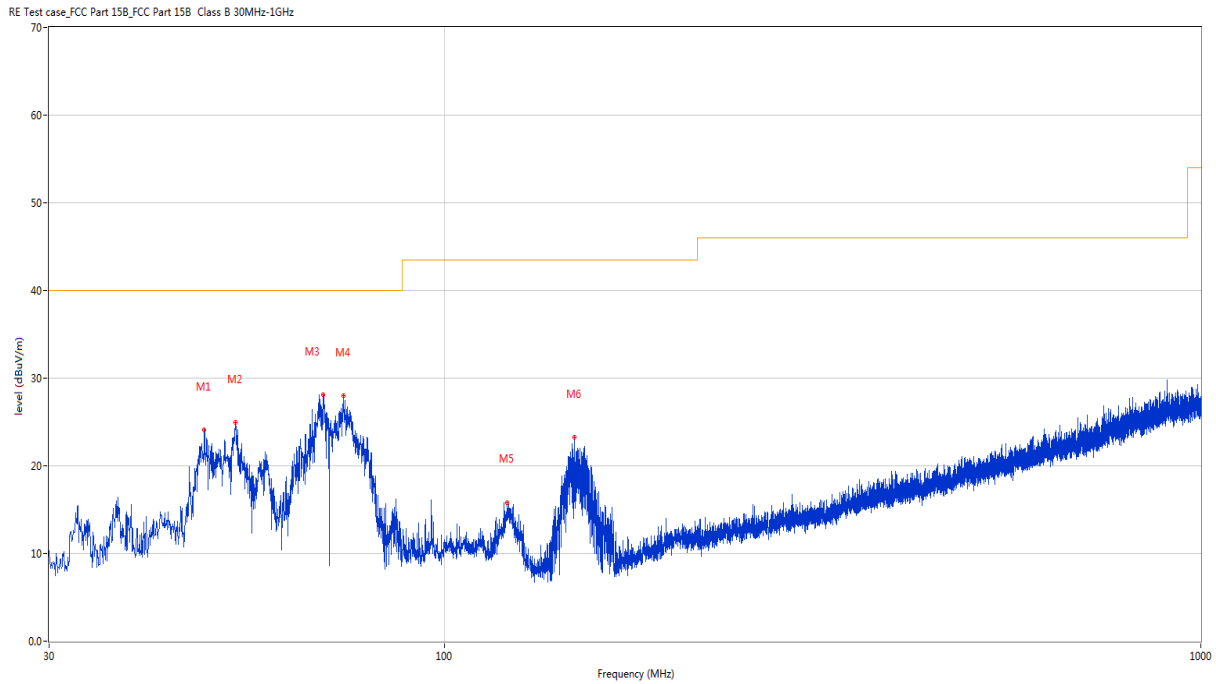
Test Data and Plots

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	42.755	14.96	-23.40	40.0	-25.04	Peak	241.00	100	Horizontal	Pass
2	47.897	16.05	-22.66	40.0	-23.95	Peak	0.00	200	Horizontal	Pass
3	58.858	16.91	-24.04	40.0	-23.09	Peak	71.10	100	Horizontal	Pass
4	116.912	14.02	-25.81	43.5	-29.48	Peak	101.70	200	Horizontal	Pass
5	148.534	18.03	-28.05	43.5	-25.47	Peak	186.70	200	Horizontal	Pass
6	351.991	21.41	-20.23	46.0	-24.59	Peak	161.60	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V



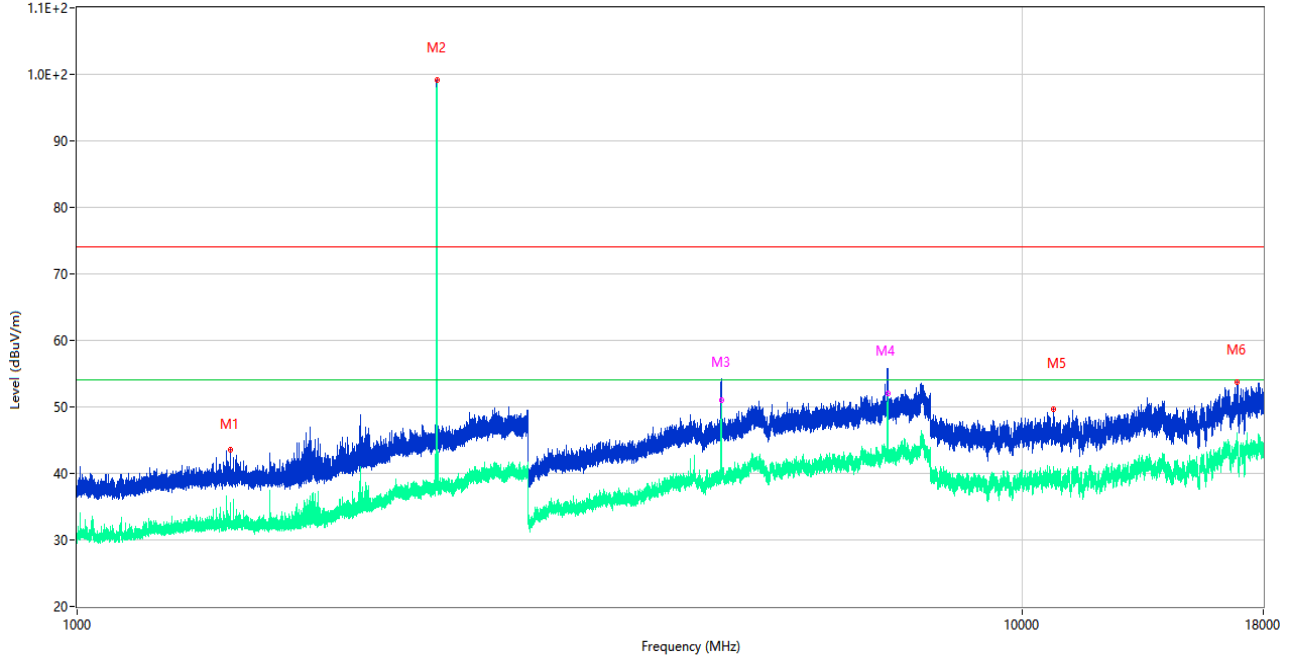
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	48.139	24.07	-22.61	40.0	-15.93	Peak	291.30	100	Vertical	Pass
2	52.941	24.94	-23.01	40.0	-15.06	Peak	249.00	100	Vertical	Pass
3	69.140	28.06	-26.61	40.0	-11.94	Peak	310.20	100	Vertical	Pass
4	73.553	27.98	-28.49	40.0	-12.02	Peak	224.70	100	Vertical	Pass
5	121.132	15.77	-25.80	43.5	-27.73	Peak	243.80	100	Vertical	Pass
6	148.486	23.27	-28.04	43.5	-20.23	Peak	356.20	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.

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

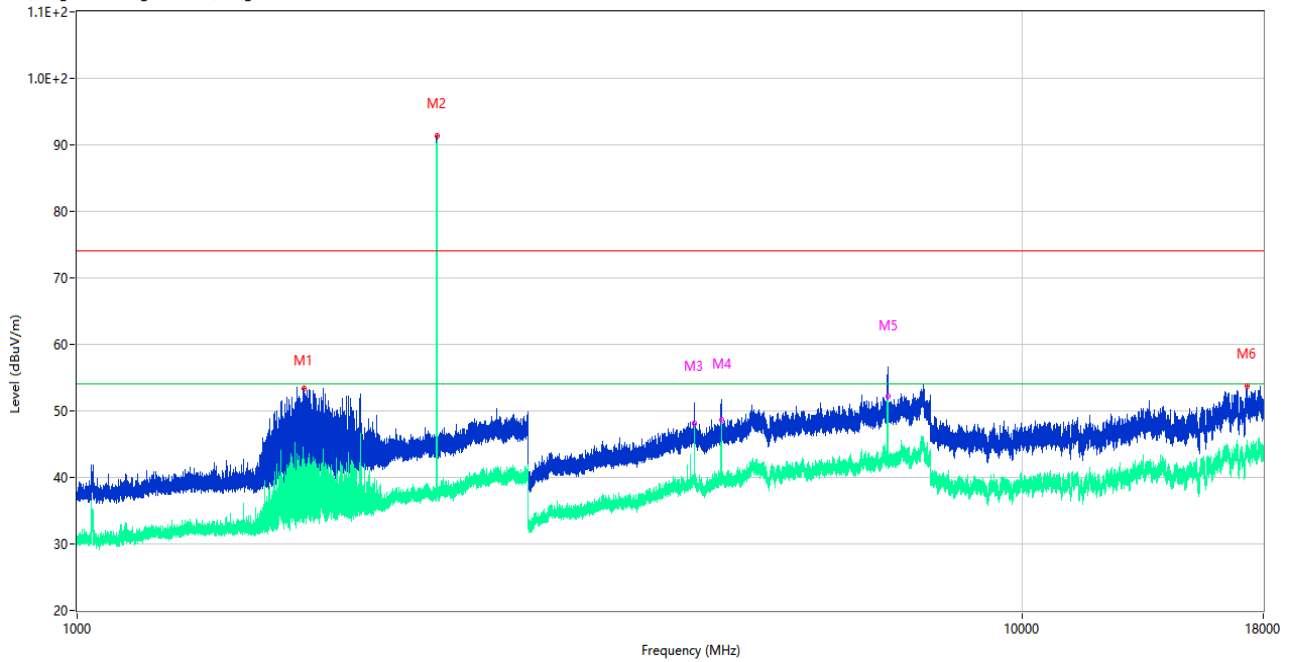
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1452.200	43.48	-17.54	74.0	-30.52	Peak	126.00	400	Horizontal	Pass
1**	1452.200	34.69	-17.54	54.0	-19.31	AV	126.00	400	Horizontal	Pass
2	2402.300	99.13	-13.32	74.0	25.13	Peak	314.00	100	Horizontal	N/A
2**	2402.300	98.45	-13.32	54.0	44.45	AV	314.00	100	Horizontal	N/A
3	4804.250	54.09	-4.10	74.0	-19.91	Peak	159.00	200	Horizontal	Pass
3**	4804.250	51.00	-4.10	54.0	-3.00	AV	159.00	200	Horizontal	Pass
4	7206.500	55.31	-1.10	74.0	-18.69	Peak	41.00	100	Horizontal	Pass
4***	7206.500	50.95	-1.10	54.0	-3.05	AV	41.00	100	Horizontal	Pass
5	10806.537	49.65	-5.28	74.0	-24.35	Peak	0.00	300	Horizontal	Pass
5**	10806.537	38.97	-5.28	54.0	-15.03	AV	0.00	300	Horizontal	Pass
6	16897.500	53.68	1.49	74.0	-20.32	Peak	28.00	100	Horizontal	Pass
6**	16897.500	44.27	1.49	54.0	-9.73	AV	28.00	100	Horizontal	Pass

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

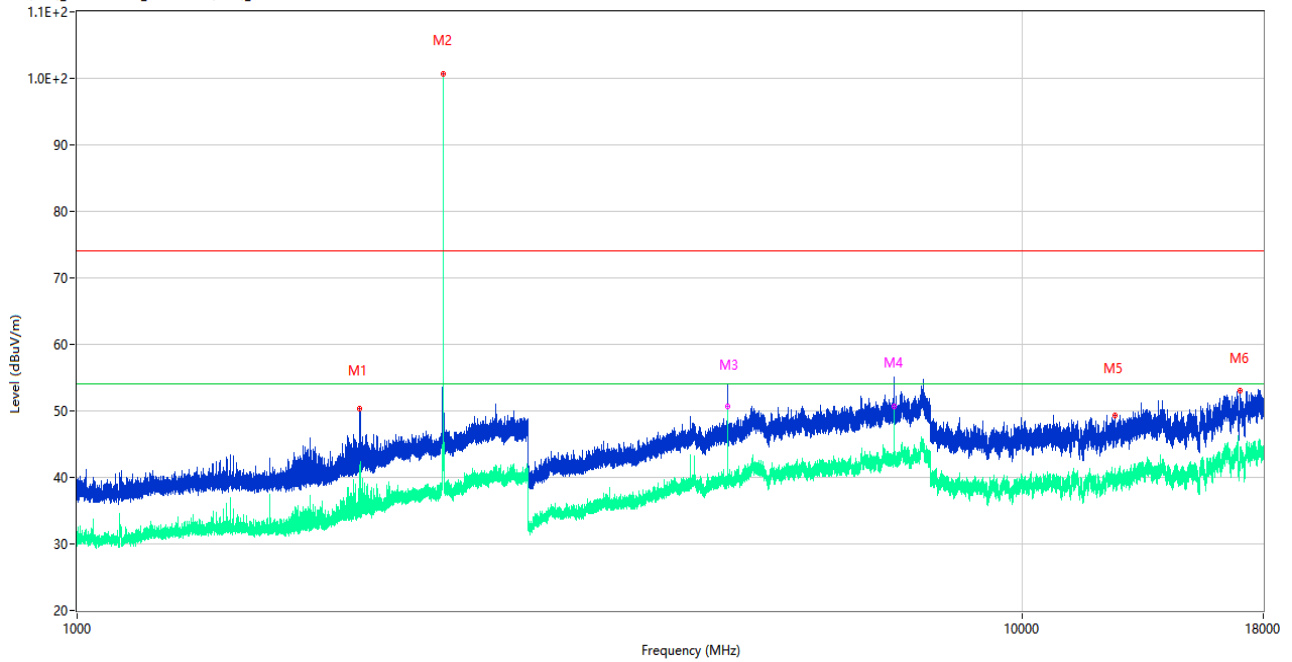
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1739.800	53.45	-17.04	74.0	-20.55	Peak	273.00	100	Vertical	Pass
1**	1739.800	39.75	-17.04	54.0	-14.25	AV	273.00	100	Vertical	Pass
2	2402.300	91.28	-13.32	74.0	17.28	Peak	273.00	200	Vertical	N/A
2**	2402.300	90.09	-13.32	54.0	36.09	AV	273.00	200	Vertical	N/A
3	4500.250	50.56	-4.42	74.0	-23.44	Peak	213.00	300	Vertical	Pass
3**	4500.250	48.18	-4.42	54.0	-5.82	AV	213.00	300	Vertical	Pass
4	4804.250	51.62	-4.10	74.0	-22.38	Peak	114.00	400	Vertical	Pass
4**	4804.250	48.71	-4.10	54.0	-5.29	AV	114.00	400	Vertical	Pass
5	7207.000	56.51	-1.14	74.0	-17.49	Peak	291.00	100	Vertical	Pass
5***	7207.000	50.55	-1.14	54.0	-3.45	AV	291.00	100	Vertical	Pass
6	17306.739	53.68	2.00	74.0	-20.32	Peak	224.00	200	Vertical	Pass
6**	17306.739	43.84	2.00	54.0	-10.16	AV	224.00	200	Vertical	Pass

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

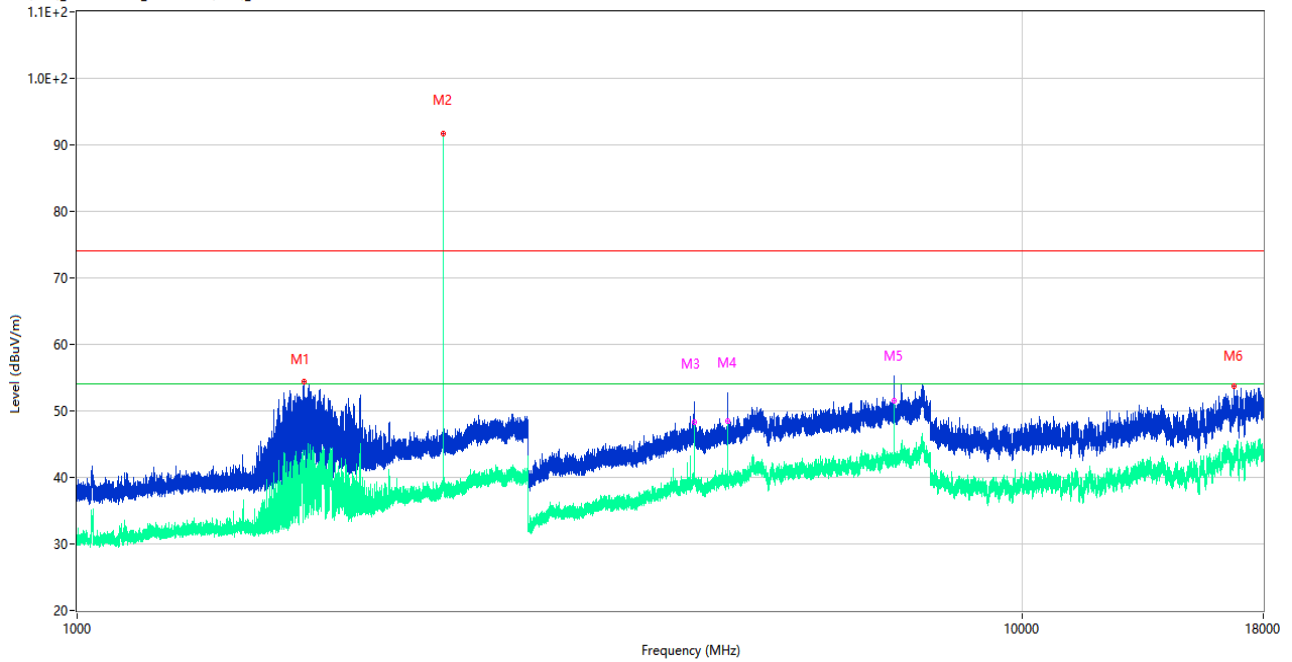
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1992.500	50.26	-15.61	74.0	-23.74	Peak	198.00	100	Horizontal	Pass
1**	1992.500	35.32	-15.61	54.0	-18.68	AV	198.00	100	Horizontal	Pass
2	2440.300	100.70	-12.36	74.0	26.70	Peak	191.00	200	Horizontal	N/A
2**	2440.300	99.86	-12.36	54.0	45.86	AV	191.00	200	Horizontal	N/A
3	4880.500	53.06	-3.66	74.0	-20.94	Peak	158.00	100	Horizontal	Pass
3**	4880.500	50.63	-3.66	54.0	-3.37	AV	158.00	100	Horizontal	Pass
4	7320.500	54.90	-0.70	74.0	-19.10	Peak	41.00	300	Horizontal	Pass
4**	7320.500	50.62	-0.70	54.0	-3.38	AV	41.00	300	Horizontal	Pass
5	12546.938	49.37	-2.15	74.0	-24.63	Peak	304.00	100	Horizontal	Pass
5**	12546.938	39.43	-2.15	54.0	-14.57	AV	304.00	100	Horizontal	Pass
6	17015.625	53.02	0.66	74.0	-20.98	Peak	52.00	200	Horizontal	Pass
6**	17015.625	42.91	0.66	54.0	-11.09	AV	52.00	200	Horizontal	Pass

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

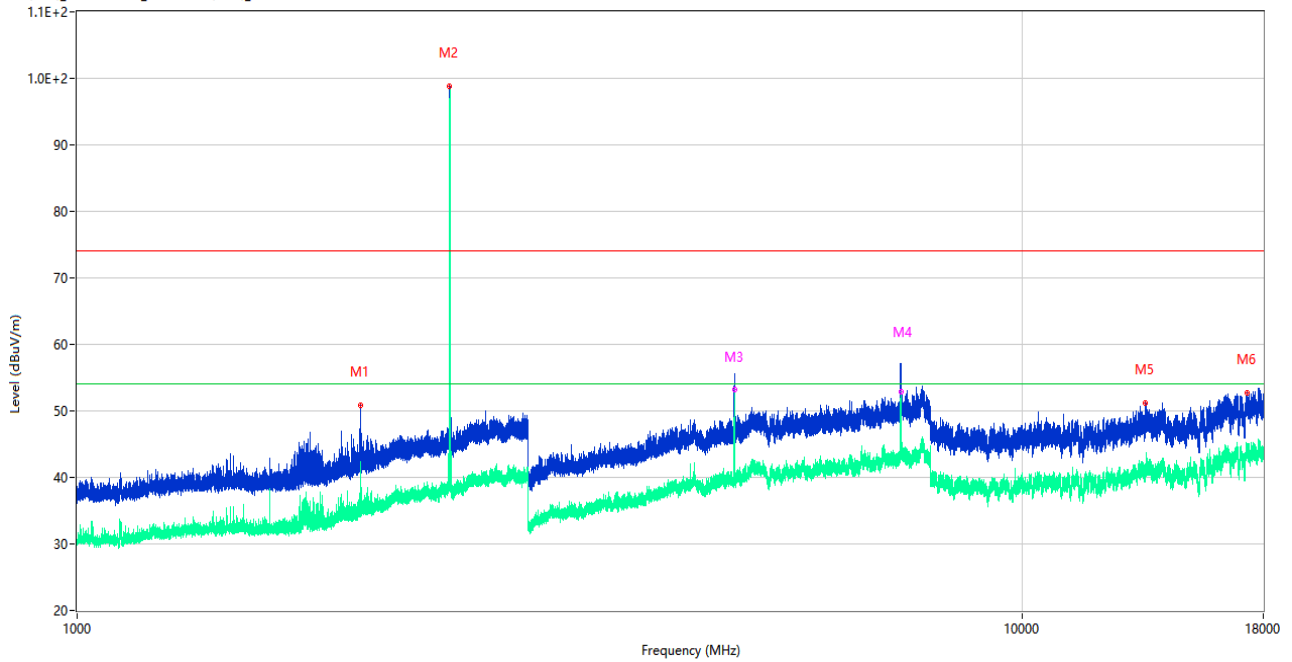
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1740.600	54.42	-16.92	74.0	-19.58	Peak	282.00	400	Vertical	Pass
1**	1740.600	39.56	-16.92	54.0	-14.44	AV	282.00	400	Vertical	Pass
2	2439.800	91.70	-12.40	74.0	17.70	Peak	180.00	100	Vertical	N/A
2**	2439.800	90.47	-12.40	54.0	36.47	AV	180.00	100	Vertical	N/A
3	4500.000	49.80	-4.42	74.0	-24.20	Peak	199.00	200	Vertical	Pass
3**	4500.000	48.31	-4.42	54.0	-5.69	AV	199.00	200	Vertical	Pass
4	4879.750	51.10	-3.70	74.0	-22.90	Peak	124.00	100	Vertical	Pass
4**	4879.750	48.50	-3.70	54.0	-5.50	AV	124.00	100	Vertical	Pass
5	7319.250	55.17	-0.73	74.0	-18.83	Peak	110.00	400	Vertical	Pass
5***	7319.250	49.062	-0.73	54.0	-4.938	AV	110.00	400	Vertical	Pass
6	16776.225	53.80	0.43	74.0	-20.20	Peak	52.00	300	Vertical	Pass
6**	16776.225	43.22	0.43	54.0	-10.78	AV	52.00	300	Vertical	Pass

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

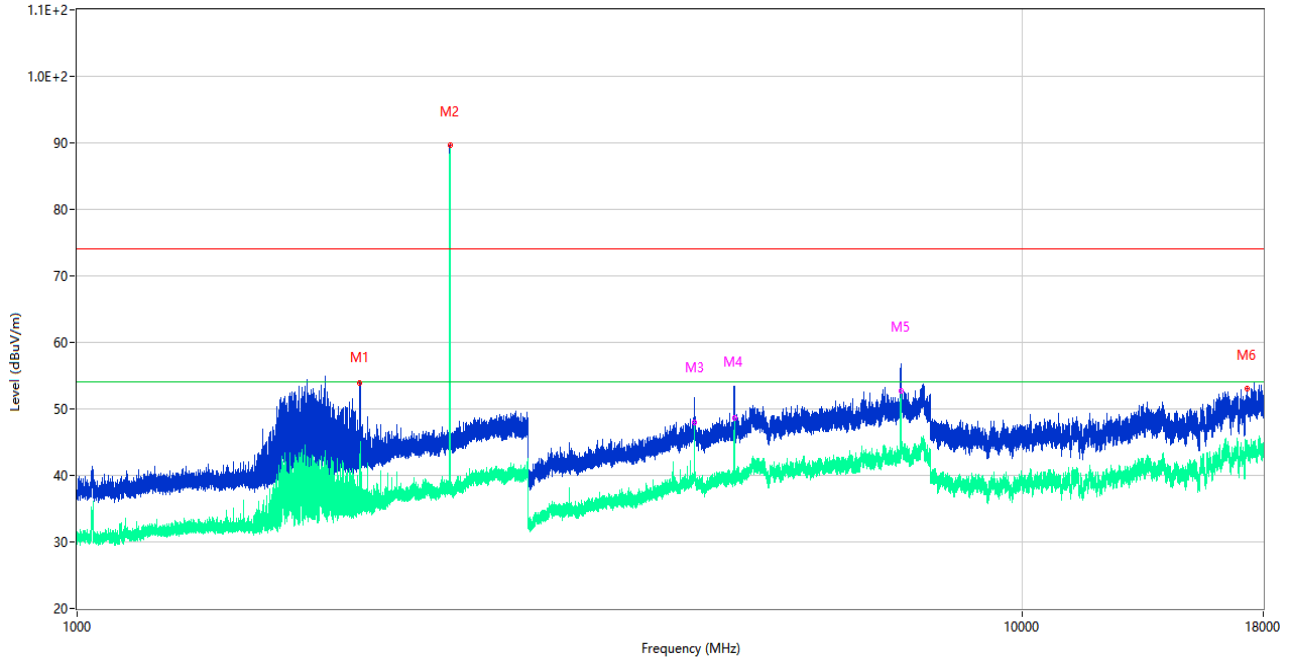
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1994.900	50.82	-15.78	74.0	-23.18	Peak	230.00	200	Horizontal	Pass
1**	1994.900	34.79	-15.78	54.0	-19.21	AV	230.00	200	Horizontal	Pass
2	2479.700	98.86	-13.05	74.0	24.86	Peak	191.00	100	Horizontal	N/A
2**	2479.700	96.59	-13.05	54.0	42.59	AV	191.00	100	Horizontal	N/A
3	4960.000	55.38	-4.17	74.0	-18.62	Peak	158.00	300	Horizontal	Pass
3**	4960.000	50.973	-4.17	54.0	-3.027	AV	158.00	300	Horizontal	Pass
4	7441.000	55.64	0.36	74.0	-18.36	Peak	39.00	200	Horizontal	Pass
4***	7441.000	50.764	0.36	54.0	-3.236	AV	39.00	200	Horizontal	Pass
5	13504.950	51.24	0.30	74.0	-22.76	Peak	132.00	100	Horizontal	Pass
5**	13504.950	41.34	0.30	54.0	-12.66	AV	132.00	100	Horizontal	Pass
6	17297.551	52.72	2.01	74.0	-21.28	Peak	334.00	400	Horizontal	Pass
6**	17297.551	42.99	2.01	54.0	-11.01	AV	334.00	400	Horizontal	Pass

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

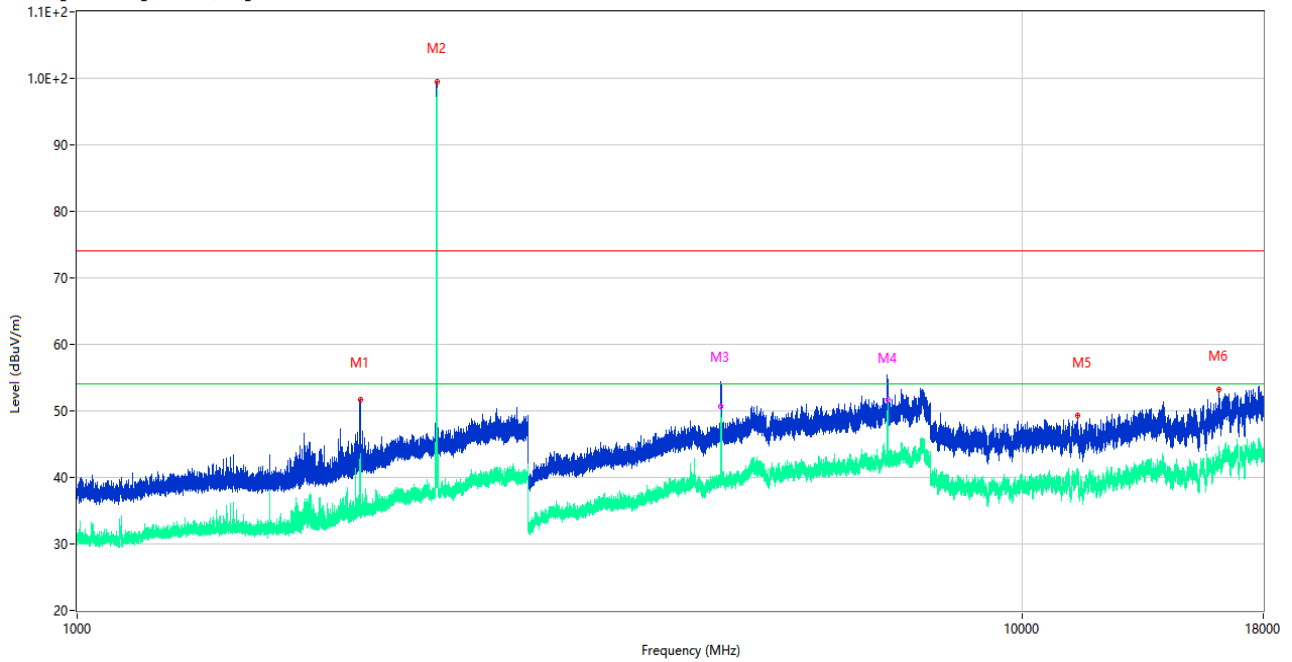
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1991.800	53.88	-15.62	74.0	-20.12	Peak	9.00	200	Vertical	Pass
1**	1991.800	41.96	-15.62	54.0	-12.04	AV	9.00	200	Vertical	Pass
2	2480.400	89.74	-13.10	74.0	15.74	Peak	180.00	100	Vertical	N/A
2**	2480.400	88.14	-13.10	54.0	34.14	AV	180.00	100	Vertical	N/A
3	4500.000	51.67	-4.42	74.0	-22.33	Peak	202.00	400	Vertical	Pass
3**	4500.000	48.05	-4.42	54.0	-5.95	AV	202.00	400	Vertical	Pass
4	4960.250	52.15	-4.16	74.0	-21.85	Peak	83.00	300	Vertical	Pass
4**	4960.250	48.71	-4.16	54.0	-5.29	AV	83.00	300	Vertical	Pass
5	7441.000	55.72	0.36	74.0	-18.28	Peak	319.00	100	Vertical	Pass
5***	7441.000	50.67	0.36	54.0	-3.33	AV	319.00	100	Vertical	Pass
6	17288.364	53.12	1.99	74.0	-20.88	Peak	264.00	200	Vertical	Pass
6**	17288.364	43.76	1.99	54.0	-10.24	AV	264.00	200	Vertical	Pass

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

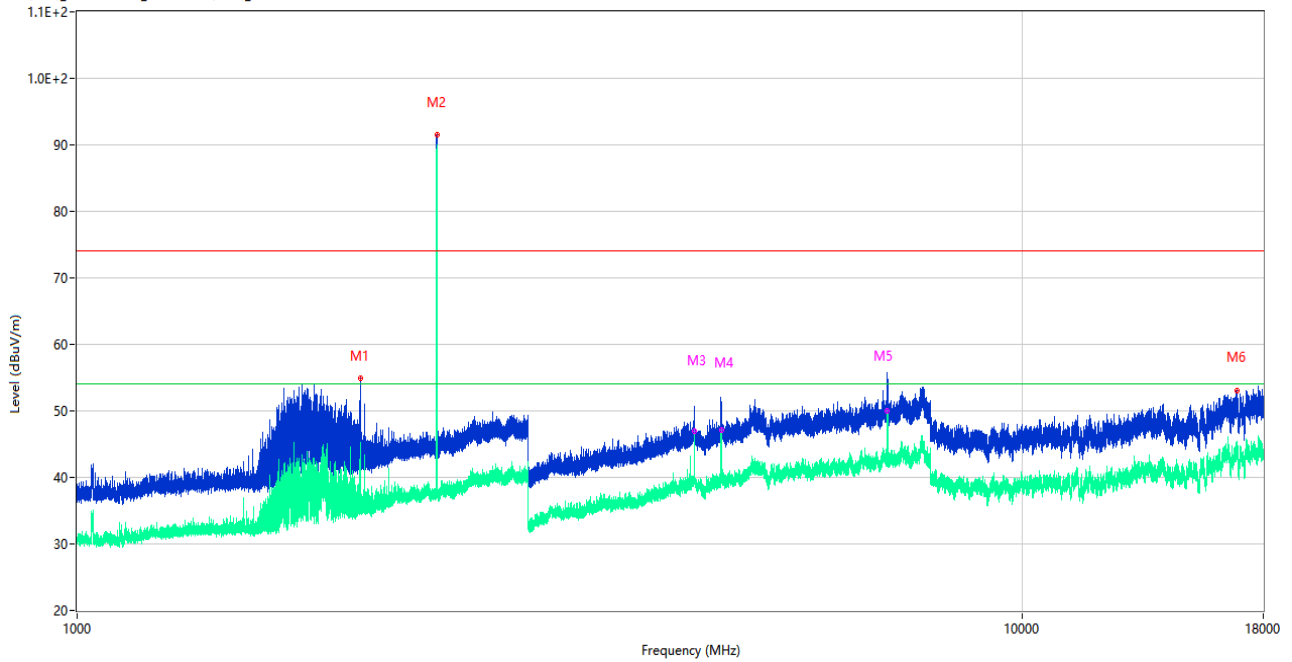
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1995.000	51.70	-15.80	74.0	-22.30	Peak	222.00	200	Horizontal	Pass
1**	1995.000	37.91	-15.80	54.0	-16.09	AV	222.00	200	Horizontal	Pass
2	2402.500	99.50	-13.31	74.0	25.50	Peak	315.00	100	Horizontal	N/A
2**	2402.500	97.29	-13.31	54.0	43.29	AV	315.00	100	Horizontal	N/A
3	4803.000	54.33	-4.22	74.0	-19.67	Peak	146.00	200	Horizontal	Pass
3**	4803.000	50.63	-4.22	54.0	-3.37	AV	146.00	200	Horizontal	Pass
4	7206.250	53.64	-1.07	74.0	-20.36	Peak	71.00	400	Horizontal	Pass
4***	7206.250	47.684	-1.07	54.0	-6.316	AV	71.00	400	Horizontal	Pass
5	11457.762	49.31	-3.94	74.0	-24.69	Peak	334.00	300	Horizontal	Pass
5**	11457.762	39.87	-3.94	54.0	-14.13	AV	334.00	300	Horizontal	Pass
6	16150.425	53.23	-0.47	74.0	-20.77	Peak	363.00	200	Horizontal	Pass
6**	16150.425	42.75	-0.47	54.0	-11.25	AV	363.00	200	Horizontal	Pass

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

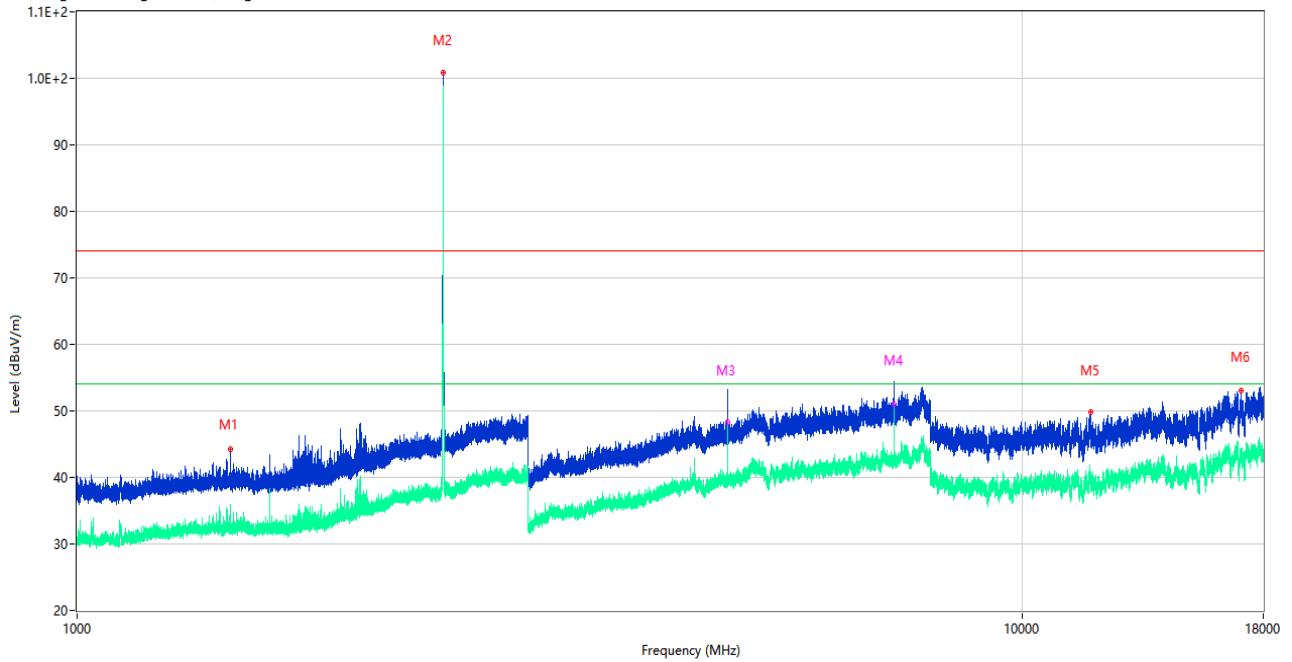
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1996.100	54.99	-15.82	74.0	-19.01	Peak	19.00	100	Vertical	Pass
1**	1996.100	36.03	-15.82	54.0	-17.97	AV	19.00	100	Vertical	Pass
2	2402.600	91.46	-13.31	74.0	17.46	Peak	274.00	200	Vertical	N/A
2**	2402.600	89.14	-13.31	54.0	35.14	AV	274.00	200	Vertical	N/A
3	4500.000	50.21	-4.42	74.0	-23.79	Peak	218.00	300	Vertical	Pass
3**	4500.000	46.89	-4.42	54.0	-7.11	AV	218.00	300	Vertical	Pass
4	4803.500	50.08	-4.17	74.0	-23.92	Peak	114.00	100	Vertical	Pass
4**	4803.500	47.19	-4.17	54.0	-6.81	AV	114.00	100	Vertical	Pass
5	7204.750	54.55	-1.00	74.0	-19.45	Peak	279.00	400	Vertical	Pass
5**	7204.750	49.97	-1.00	54.0	-4.03	AV	279.00	400	Vertical	Pass
6	16871.775	53.13	1.27	74.0	-20.87	Peak	64.00	100	Vertical	Pass
6**	16871.775	43.49	1.27	54.0	-10.51	AV	64.00	100	Vertical	Pass

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

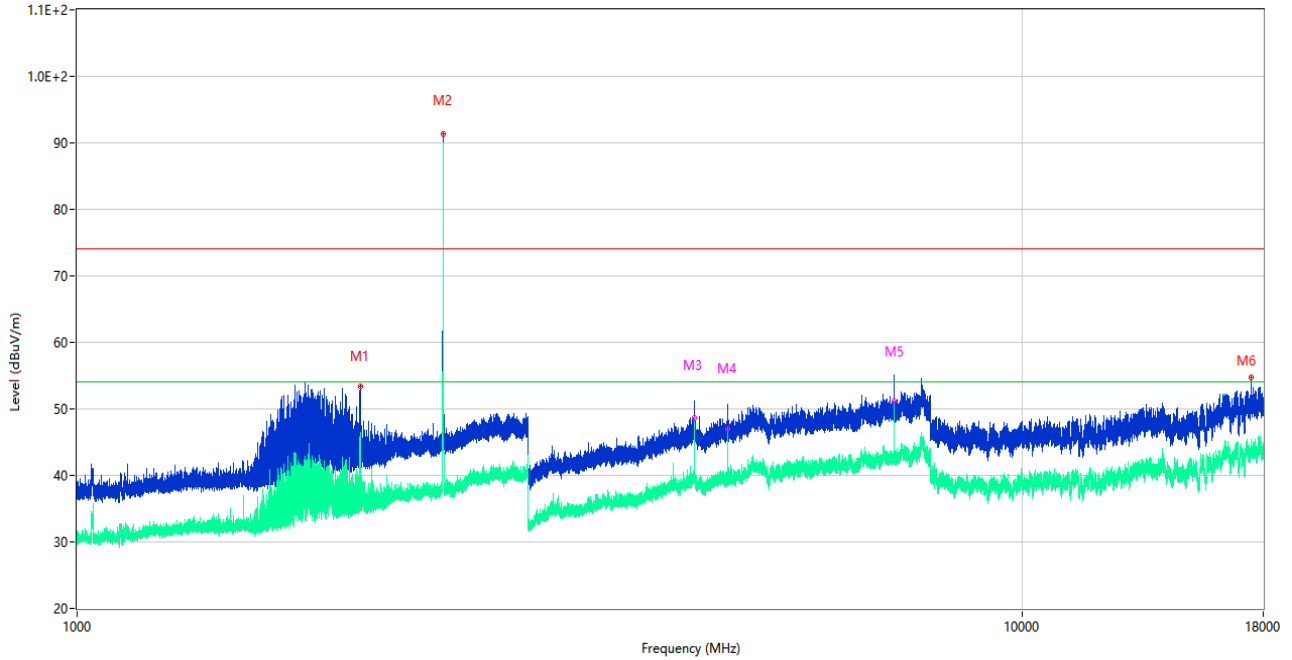
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1451.600	44.27	-17.55	74.0	-29.73	Peak	166.00	300	Horizontal	Pass
1**	1451.600	33.90	-17.55	54.0	-20.10	AV	166.00	300	Horizontal	Pass
2	2439.400	100.84	-12.42	74.0	26.84	Peak	193.00	100	Horizontal	N/A
2**	2439.400	96.82	-12.42	54.0	42.82	AV	193.00	100	Horizontal	N/A
3	4880.000	52.84	-3.68	74.0	-21.16	Peak	153.00	200	Horizontal	Pass
3**	4880.000	48.28	-3.68	54.0	-5.72	AV	153.00	200	Horizontal	Pass
4	7320.250	53.61	-0.71	74.0	-20.39	Peak	109.00	100	Horizontal	Pass
4**	7320.250	51.08	-0.71	54.0	-2.92	AV	109.00	100	Horizontal	Pass
5	11815.200	49.79	-3.43	74.0	-24.21	Peak	292.00	300	Horizontal	Pass
5**	11815.200	39.36	-3.43	54.0	-14.64	AV	292.00	300	Horizontal	Pass
6	17065.500	53.08	1.04	74.0	-20.92	Peak	296.00	400	Horizontal	Pass
6**	17065.500	43.78	1.04	54.0	-10.22	AV	296.00	400	Horizontal	Pass

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

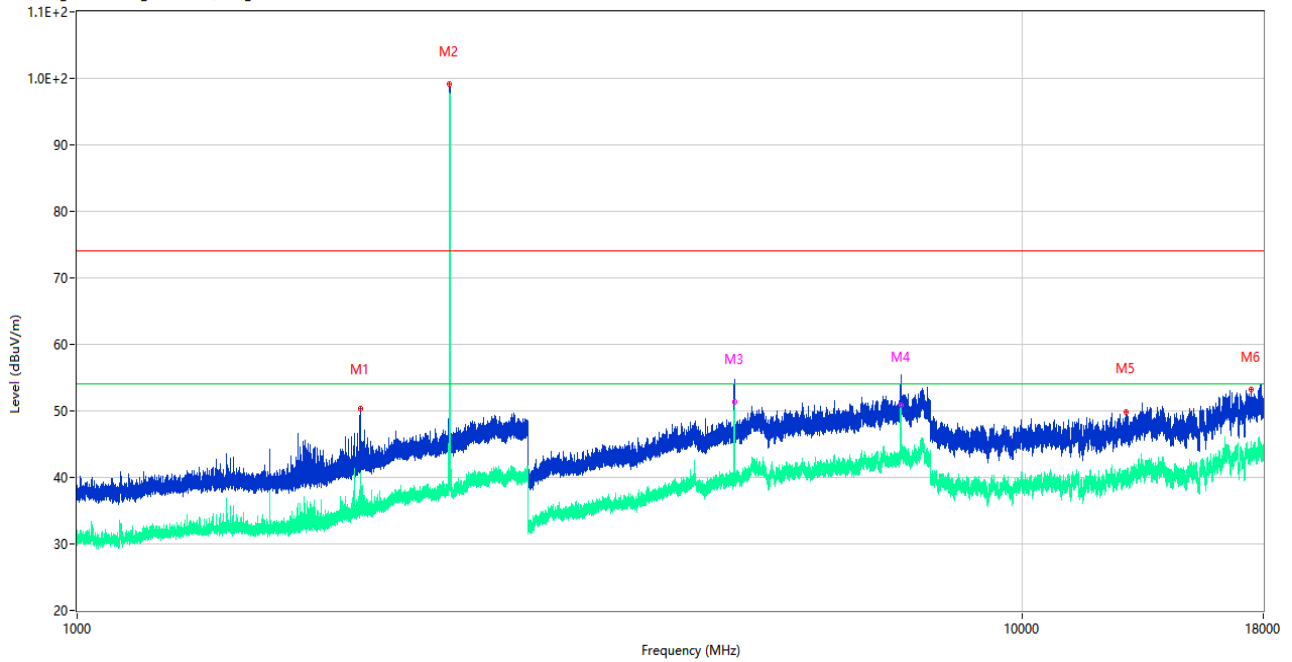
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1992.700	53.34	-15.60	74.0	-20.66	Peak	-1.00	400	Vertical	Pass
1**	1992.700	37.60	-15.60	54.0	-16.40	AV	-1.00	400	Vertical	Pass
2	2440.500	91.37	-12.34	74.0	17.37	Peak	231.00	100	Vertical	N/A
2**	2440.500	88.53	-12.34	54.0	34.53	AV	231.00	100	Vertical	N/A
3	4500.000	50.60	-4.42	74.0	-23.40	Peak	200.00	300	Vertical	Pass
3**	4500.000	48.61	-4.42	54.0	-5.39	AV	200.00	300	Vertical	Pass
4	4880.500	49.70	-3.66	74.0	-24.30	Peak	94.00	200	Vertical	Pass
4**	4880.500	46.90	-3.66	54.0	-7.10	AV	94.00	200	Vertical	Pass
5	7319.000	53.37	-0.73	74.0	-20.63	Peak	260.00	100	Vertical	Pass
5***	7319.000	45.007	-0.73	54.0	-8.993	AV	260.00	100	Vertical	Pass
6	17483.137	54.71	3.09	74.0	-19.29	Peak	88.00	200	Vertical	Pass
6**	17483.137	43.67	3.09	54.0	-10.33	AV	88.00	200	Vertical	Pass

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

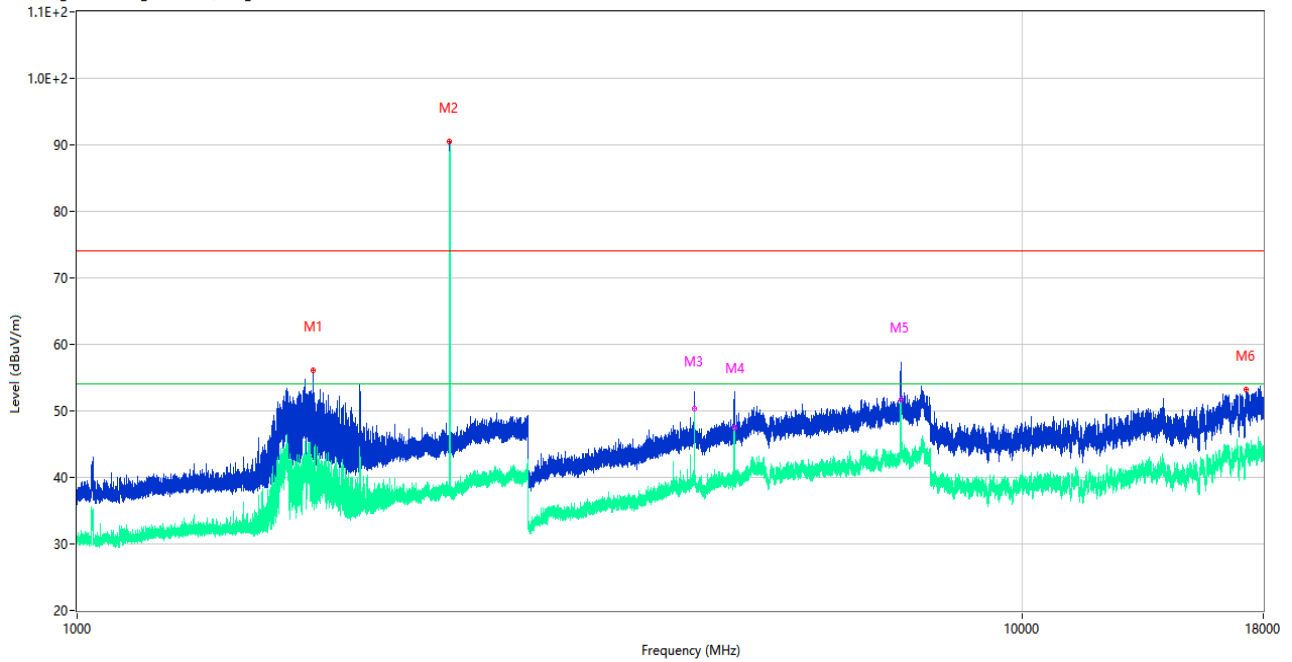
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1995.900	50.29	-15.84	74.0	-23.71	Peak	241.00	400	Horizontal	Pass
1**	1995.900	37.09	-15.84	54.0	-16.91	AV	241.00	400	Horizontal	Pass
2	2479.500	99.14	-13.03	74.0	25.14	Peak	194.00	200	Horizontal	N/A
2**	2479.500	97.88	-13.03	54.0	43.88	AV	194.00	200	Horizontal	N/A
3	4960.000	52.95	-4.17	74.0	-21.05	Peak	165.00	100	Horizontal	Pass
3***	4960.000	50.137	-4.17	54.0	-3.863	AV	165.00	100	Horizontal	Pass
4	7441.750	55.40	0.41	74.0	-18.60	Peak	41.00	300	Horizontal	Pass
4**	7441.750	50.80	0.41	54.0	-3.20	AV	41.00	300	Horizontal	Pass
5	12872.325	49.80	-2.00	74.0	-24.20	Peak	148.00	100	Horizontal	Pass
5**	12872.325	39.70	-2.00	54.0	-14.30	AV	148.00	100	Horizontal	Pass
6	17483.401	53.17	3.09	74.0	-20.83	Peak	332.00	300	Horizontal	Pass
6**	17483.401	43.67	3.09	54.0	-10.33	AV	332.00	300	Horizontal	Pass

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

RSE (SRD)_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	1779.500	56.15	-17.14	74.0	-17.85	Peak	250.00	200	Vertical	Pass
1**	1779.500	39.53	-17.14	54.0	-14.47	AV	250.00	200	Vertical	Pass
2	2479.600	90.56	-13.04	74.0	16.56	Peak	179.00	100	Vertical	N/A
2**	2479.600	86.92	-13.04	54.0	32.92	AV	179.00	100	Vertical	N/A
3	4500.250	51.41	-4.42	74.0	-22.59	Peak	202.00	200	Vertical	Pass
3**	4500.250	50.41	-4.42	54.0	-3.59	AV	202.00	200	Vertical	Pass
4	4959.750	50.19	-4.17	74.0	-23.81	Peak	231.00	100	Vertical	Pass
4**	4959.750	47.43	-4.17	54.0	-6.57	AV	231.00	100	Vertical	Pass
5	7440.000	53.54	0.29	74.0	-20.46	Peak	304.00	300	Vertical	Pass
5***	7440.000	49.113	0.29	54.0	-4.887	AV	304.00	300	Vertical	Pass
6	17279.963	53.25	1.98	74.0	-20.75	Peak	298.00	400	Vertical	Pass
6**	17279.963	43.93	1.98	54.0	-10.07	AV	298.00	400	Vertical	Pass

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

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

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

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

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

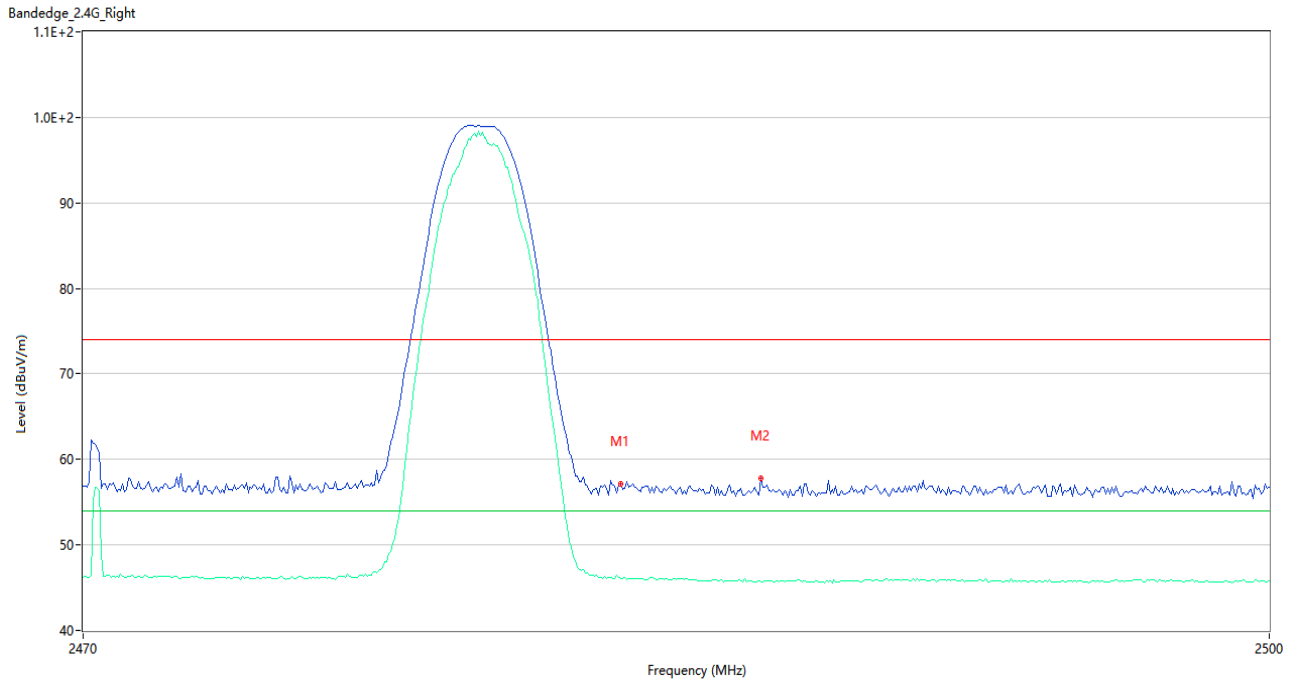
Test Data and Plots

GFSK (BLE 1Mbps) LOW CHANNEL



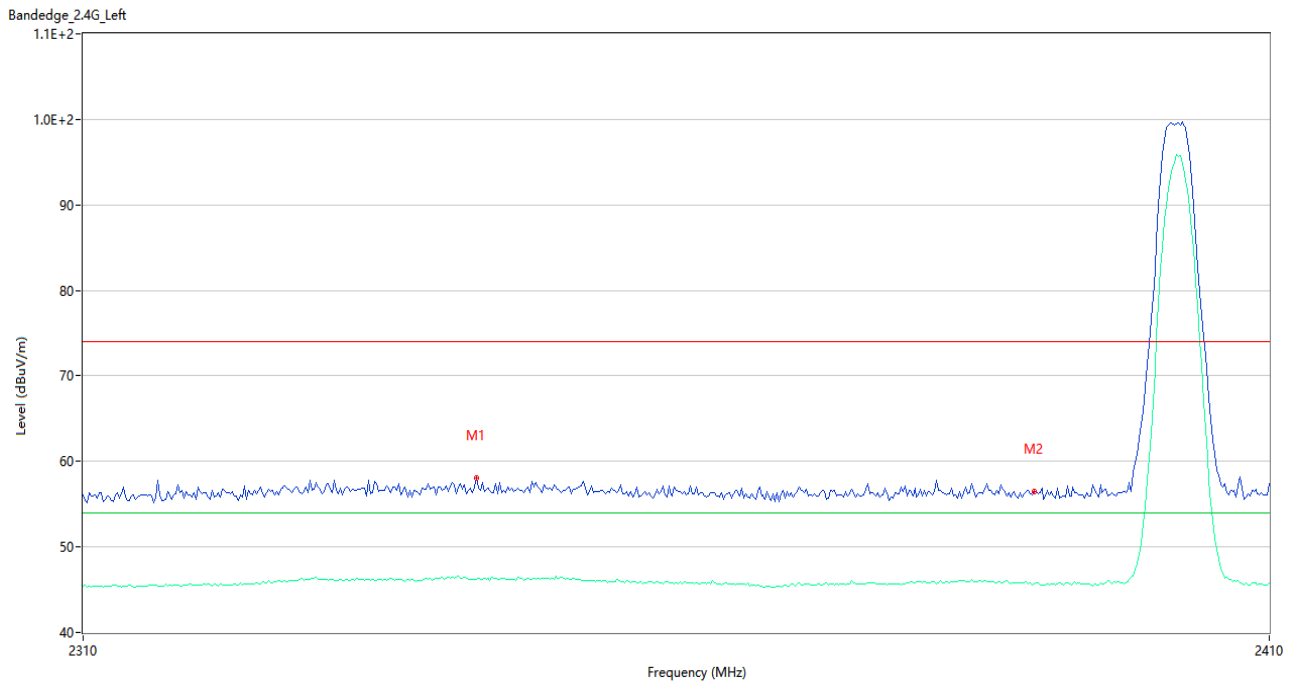
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2362.667	58.28	1.75	74.0	-15.72	Peak	293.00	150	Horizontal	Pass
1**	2362.667	45.65	1.75	54.0	-8.35	AV	293.00	150	Horizontal	Pass
2	2389.833	55.34	1.64	74.0	-18.66	Peak	346.00	200	Horizontal	Pass
2**	2389.833	45.71	1.64	54.0	-8.29	AV	346.00	200	Horizontal	Pass

GFSK (BLE 1Mbps) HIGH CHANNEL



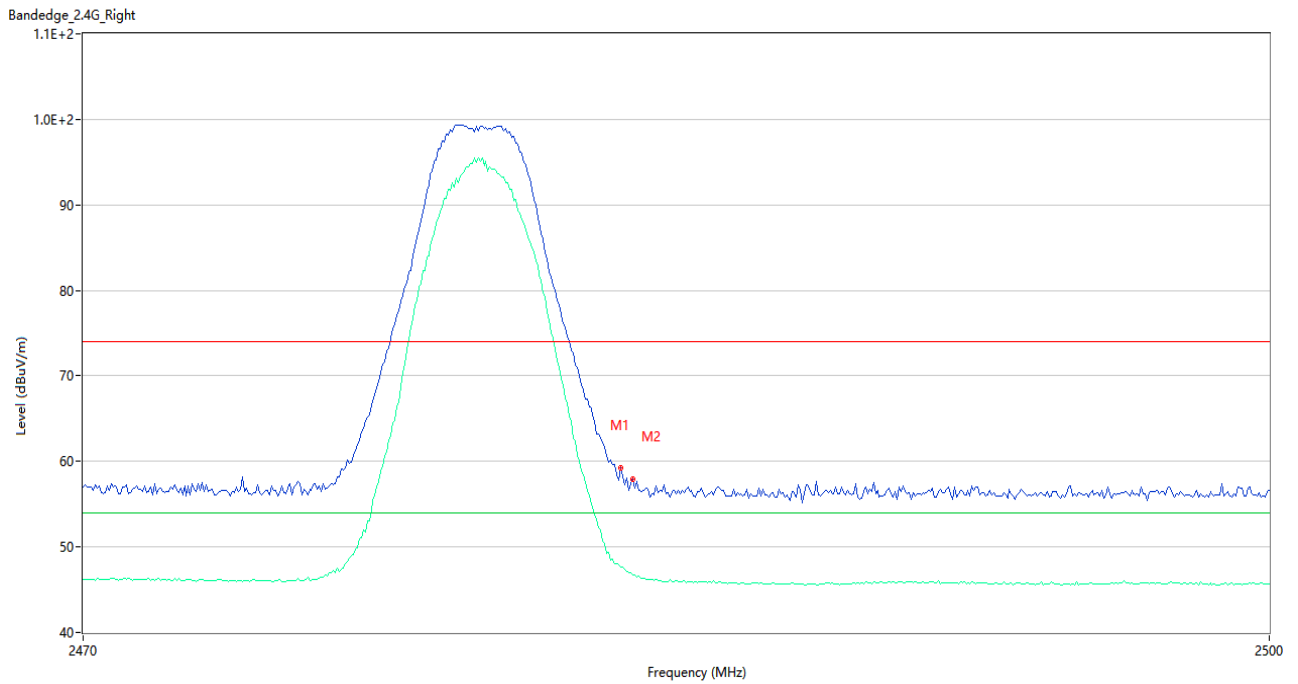
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	57.11	1.98	74.0	-16.89	Peak	240.00	150	Horizontal	Pass
1**	2483.550	46.06	1.98	54.0	-7.94	AV	240.00	150	Horizontal	Pass
2	2487.100	57.75	1.77	74.0	-16.25	Peak	109.00	200	Horizontal	Pass
2**	2487.100	45.61	1.77	54.0	-8.39	AV	109.00	200	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	2342.667	58.01	2.50	74.0	-15.99	Peak	80.00	150	Horizontal	Pass
1**	2342.667	46.25	2.50	54.0	-7.75	AV	80.00	150	Horizontal	Pass
2	2389.833	56.47	1.64	74.0	-17.53	Peak	95.00	100	Horizontal	Pass
2**	2389.833	45.65	1.64	54.0	-8.35	AV	95.00	100	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	2483.550	59.23	1.98	74.0	-14.77	Peak	193.00	100	Horizontal	Pass
1**	2483.550	47.63	1.98	54.0	-6.37	AV	193.00	100	Horizontal	Pass
2	2483.850	57.87	1.99	74.0	-16.13	Peak	208.00	150	Horizontal	Pass
2**	2483.850	46.66	1.99	54.0	-7.34	AV	208.00	150	Horizontal	Pass

A.8 Power Spectral Density (PSD)

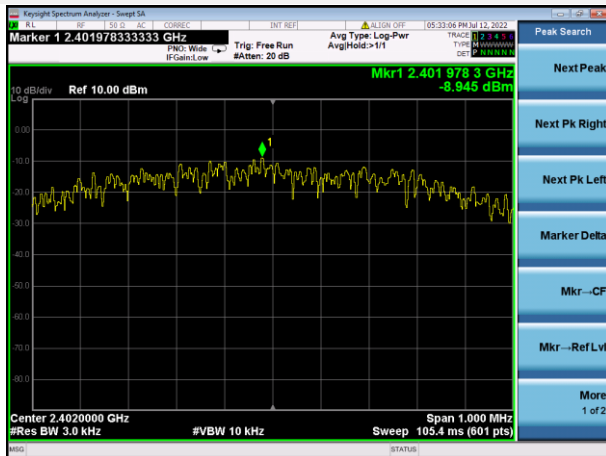
Test Data

GFSK (BLE 1Mbps)			
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low Channel	-8.95	8	Pass
Middle Channel	-8.60	8	Pass
High Channel	-8.59	8	Pass

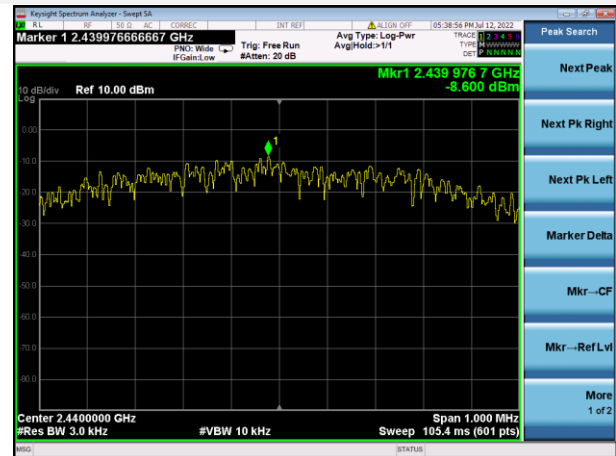
GFSK (BLE 2Mbps)			
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low Channel	-12.03	8	Pass
Middle Channel	-11.45	8	Pass
High Channel	-11.46	8	Pass

Test Plots

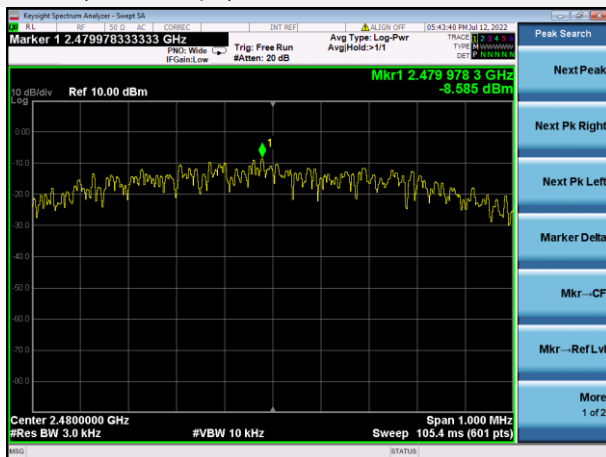
GFSK (BLE 1Mbps) LOW CHANNEL



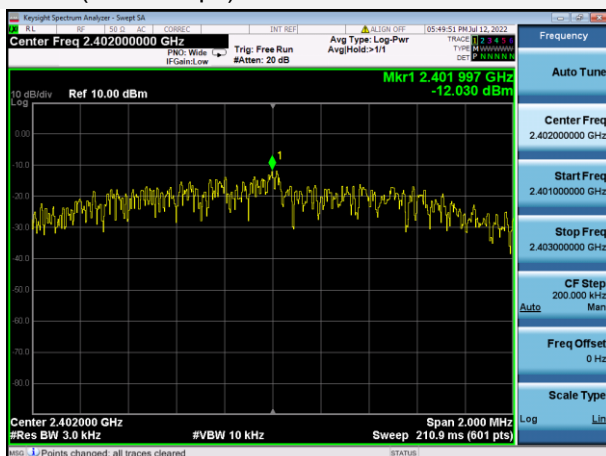
GFSK (BLE 1Mbps) MIDDLE CHANNEL



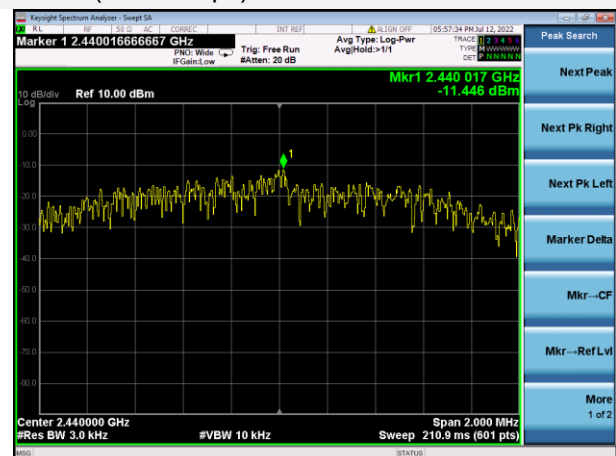
GFSK (BLE 1Mbps) HIGH CHANNEL



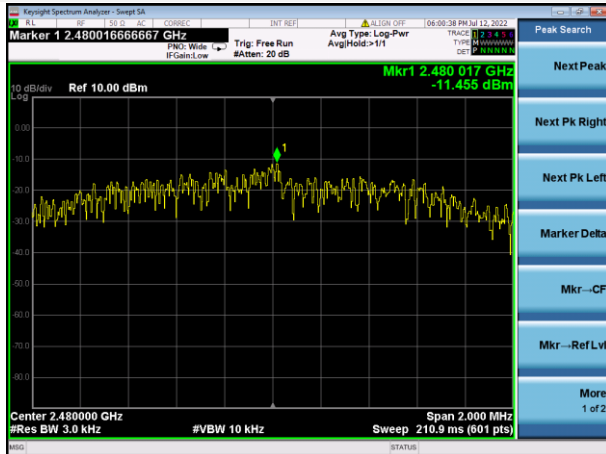
GFSK (BLE 2Mbps) LOW CHANNEL



GFSK (BLE 2Mbps) MIDDLE CHANNEL



GFSK (BLE 2Mbps) HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2260580-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2260580-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2260580-AI.PDF”.

Statement

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--END OF REPORT--