A.2 Occupied Bandwidth

Test Data

Test Mode	GFSK (BLE 1Mbps)		
Channel	6 dB Bandwidth (kHz)	99% Bandwidth (kHz)	6 dB Bandwidth Limits (kHz)
Low Channel	675.000	1023.500	≥500
Middle Channel	682.600	1017.200	≥500
High Channel	682.400	1030.900	≥500

Test Mode	GFSK (BLE 2Mbps)		
Channel	6 dB Bandwidth (kHz)	99% Bandwidth (kHz)	6 dB Bandwidth Limits (kHz)
Low Channel	975.000	2008.400	≥500
Middle Channel	975.000	2027.000	≥500
High Channel	1125.000	2070.600	≥500

Test Plots

6 dB Bandwidth

GFSK (BLE 1Mbps) LOW CHANNEL

GFSK (BLE 1Mbps) MIDDLE CHANNEL

GFSK (BLE 1Mbps) HIGH CHANNEL

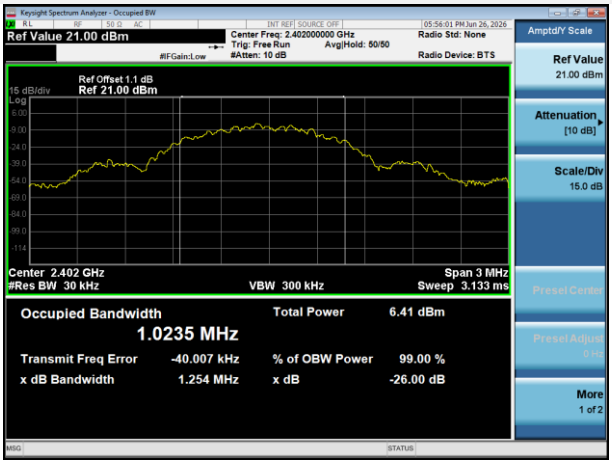
GFSK (BLE 2Mbps) LOW CHANNEL

GFSK (BLE 2Mbps) MIDDLE CHANNEL

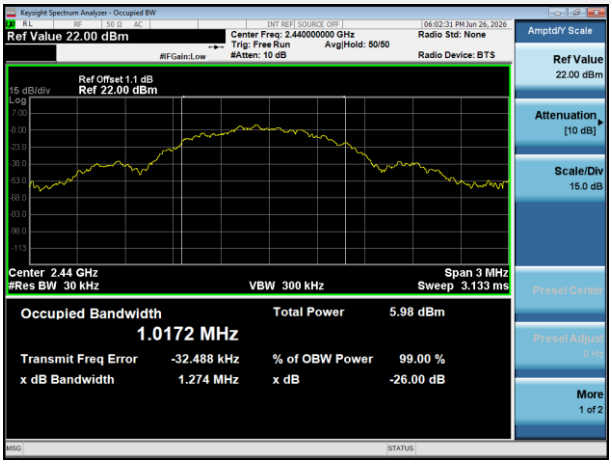
GFSK (BLE 2Mbps) HIGH CHANNEL

99% Bandwidth

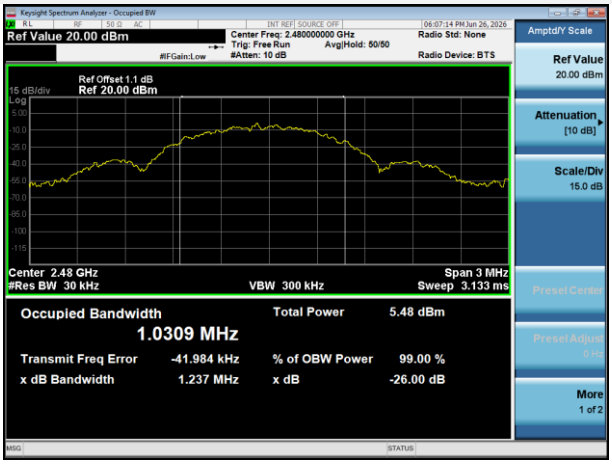
GFSK (BLE 1Mbps) LOW CHANNEL



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

A.3 Conducted Spurious Emissions

Test Data

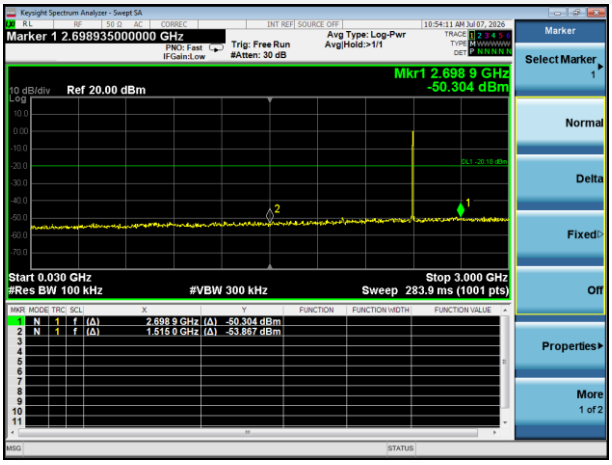
GFSK (BLE 1Mbps)				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-41.77	-0.18	-20.18	Pass
Middle Channel	-40.90	-6.62	-26.62	Pass
High Channel	-41.75	-2.70	-22.70	Pass

GFSK (BLE 2Mbps)				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-41.35	-6.14	-26.14	Pass
Middle Channel	-41.64	-6.60	-26.60	Pass
High Channel	-40.02	-1.84	-21.84	Pass

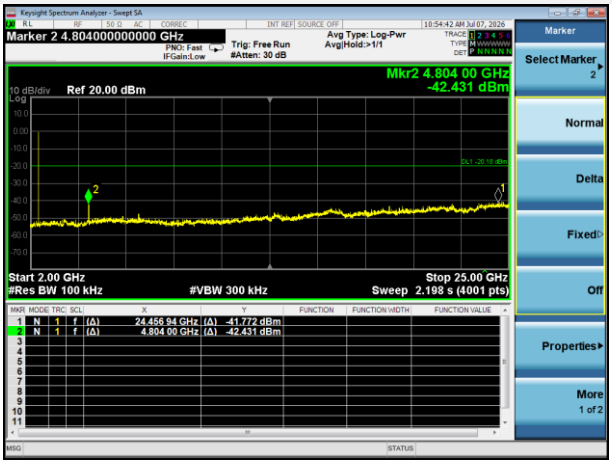
Test Plots

GFSK (BLE 1Mbps) LOW CHANNEL,
CARRIER LEVEL

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

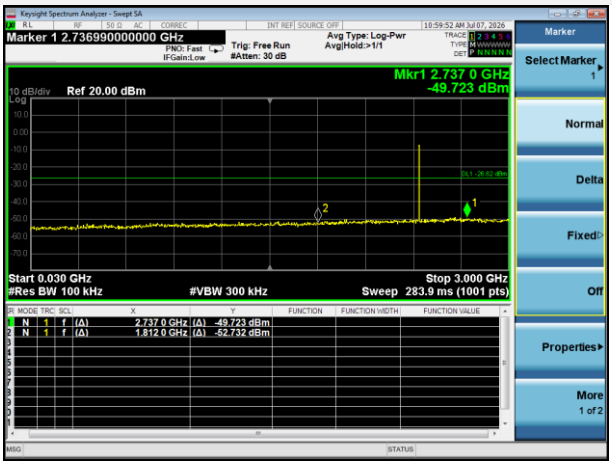


GFSK (BLE 1Mbps) LOW CHANNEL,
SPURIOUS 2 GHz ~ 25 GHz

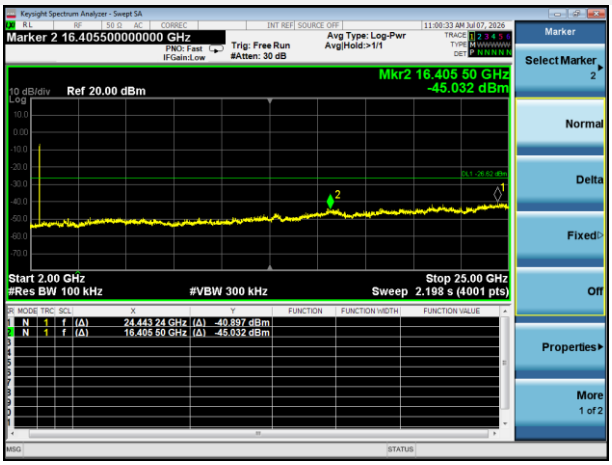


GFSK (BLE 1Mbps) MIDDLE CHANNEL,
CARRIER LEVEL

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

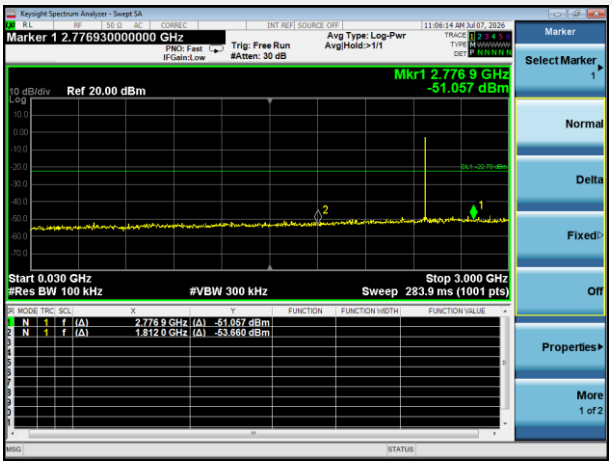


GFSK (BLE 1Mbps) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

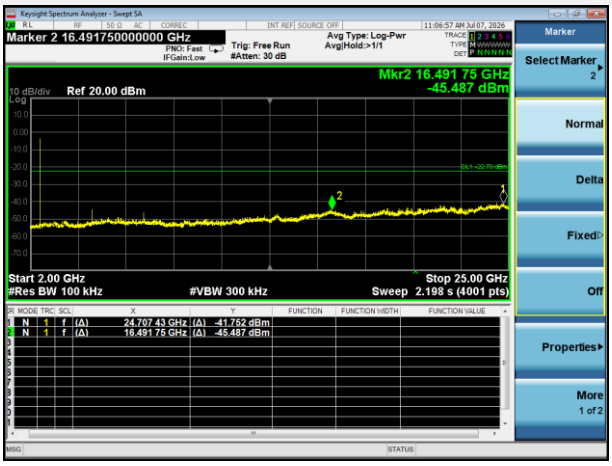


GFSK (BLE 1Mbps) HIGH CHANNEL, CARRIER LEVEL

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

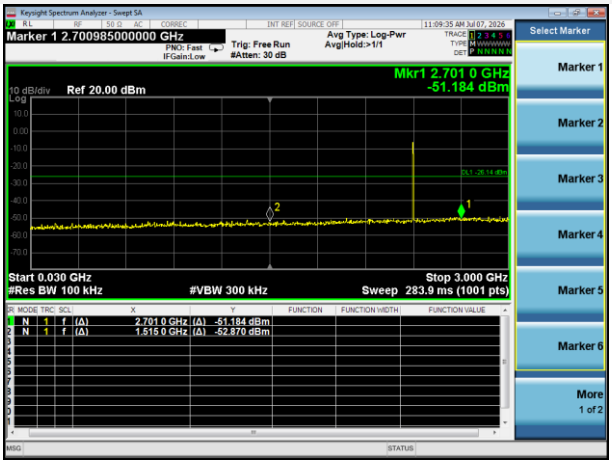


GFSK (BLE 1Mbps) HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

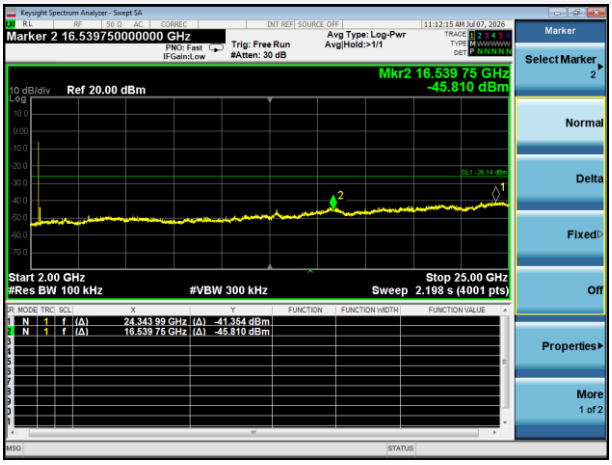


GFSK (BLE 2Mbps) LOW CHANNEL,
CARRIER LEVEL

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

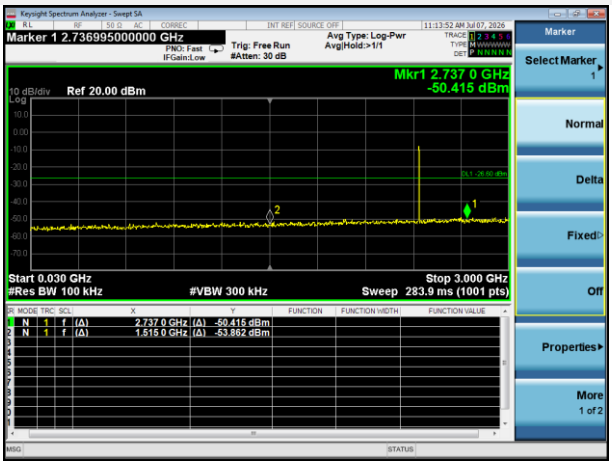


GFSK (BLE 2Mbps) LOW CHANNEL,
SPURIOUS 2 GHz ~ 25 GHz

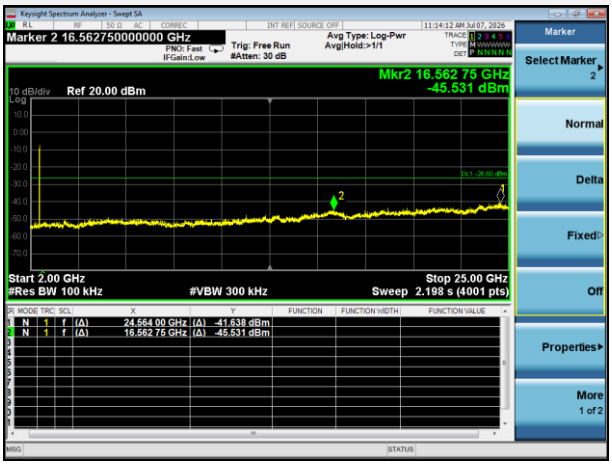


GFSK (BLE 2Mbps) MIDDLE CHANNEL,
CARRIER LEVEL

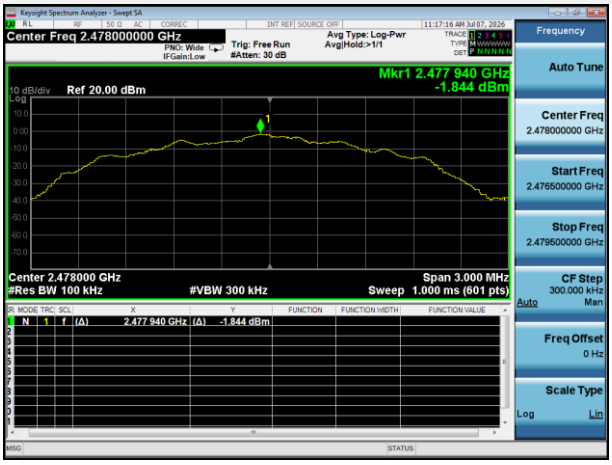
GFSK (BLE 2Mbps) MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



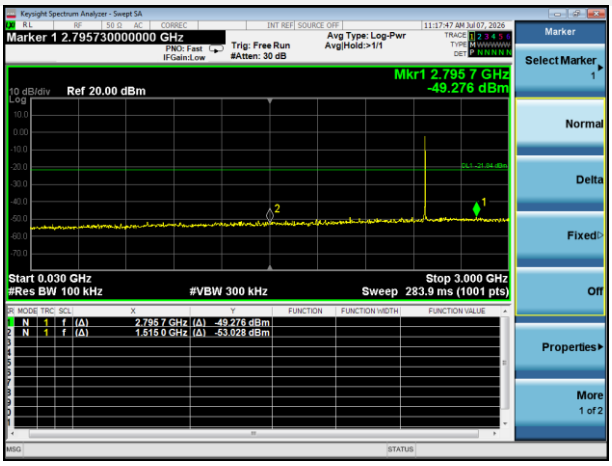
GFSK (BLE 2Mbps) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



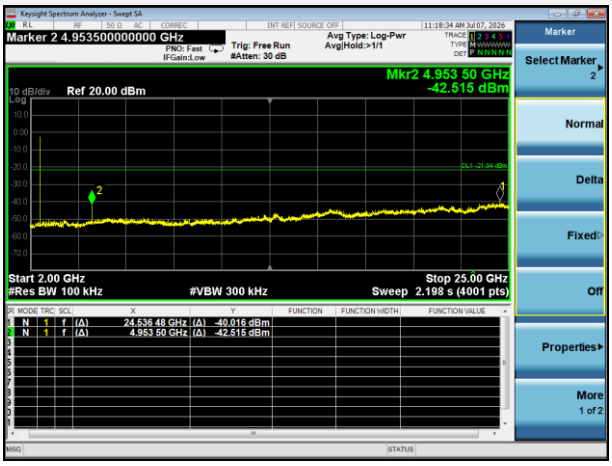
GFSK (BLE 2Mbps) HIGH CHANNEL, CARRIER LEVEL



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

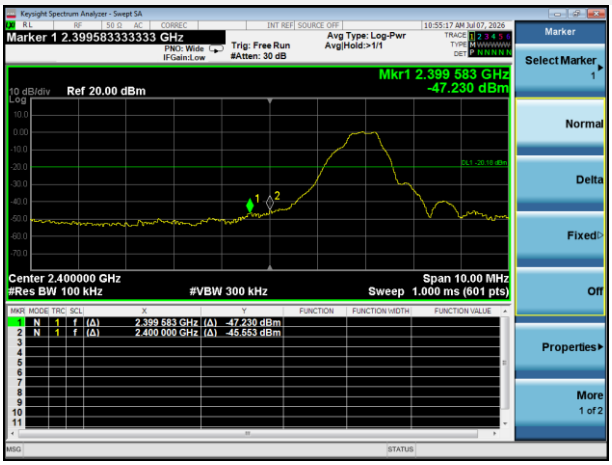
GFSK (BLE 1Mbps)				
Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-45.55	-0.18	-20.18	Pass
High Channel	-53.90	-2.70	-22.70	Pass

GFSK (BLE 2Mbps)				
Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-53.98	-6.14	-26.14	Pass
High Channel	-52.76	-1.84	-21.84	Pass

Test Plots

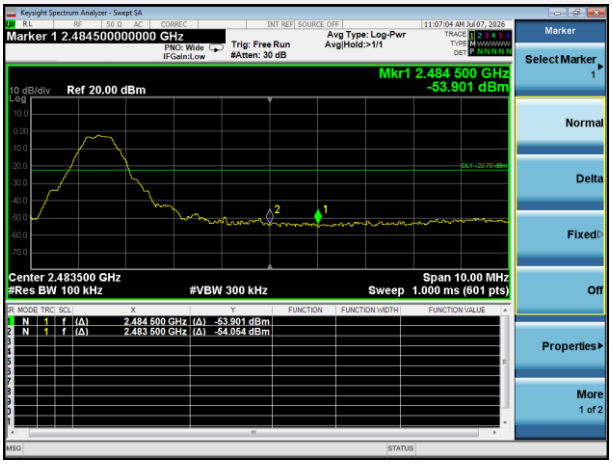
GFSK (BLE 1Mbps) LOW CHANNEL, CARRIER LEVEL

GFSK (BLE 1Mbps) LOW CHANNEL, BAND EDGE



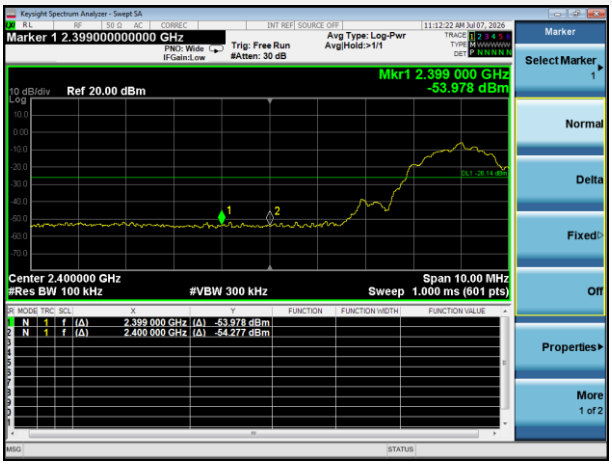
GFSK (BLE 1Mbps) HIGH CHANNEL, CARRIER LEVEL

GFSK (BLE 1Mbps) HIGH CHANNEL, BAND EDGE

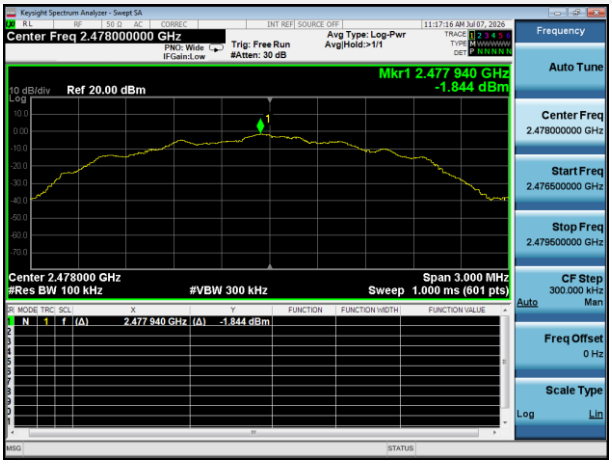


GFSK (BLE 2Mbps) LOW CHANNEL, CARRIER LEVEL

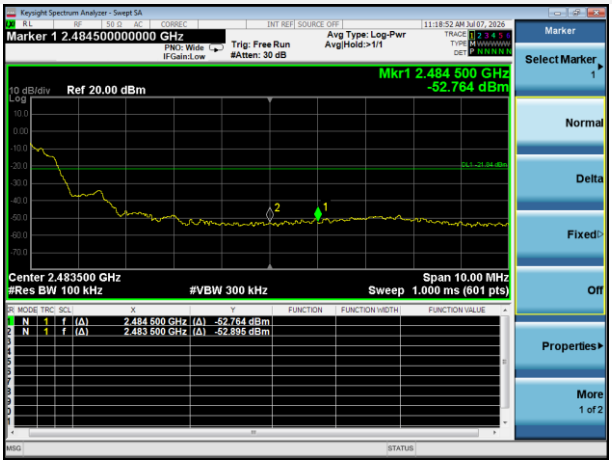
GFSK (BLE 2Mbps) LOW CHANNEL, BAND EDGE



GFSK (BLE 2Mbps) HIGH CHANNEL, CARRIER LEVEL



GFSK (BLE 2Mbps) HIGH CHANNEL, BAND EDGE



A.5 Conducted Emissions

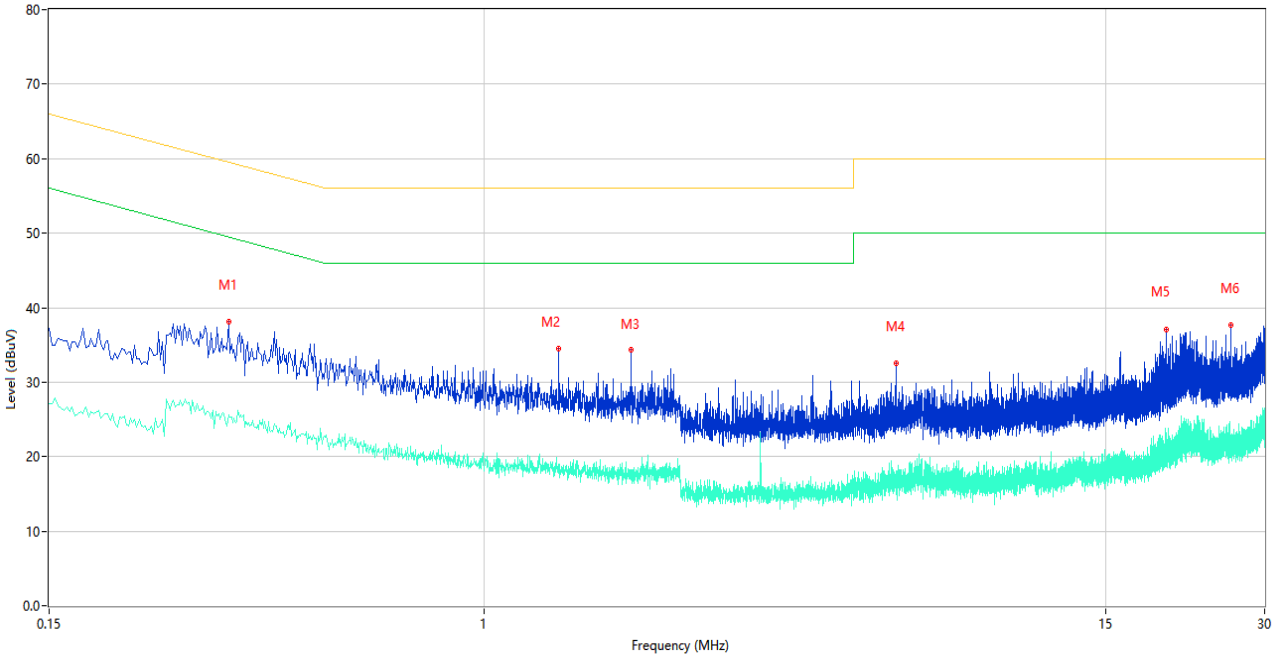
Note [1]: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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

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

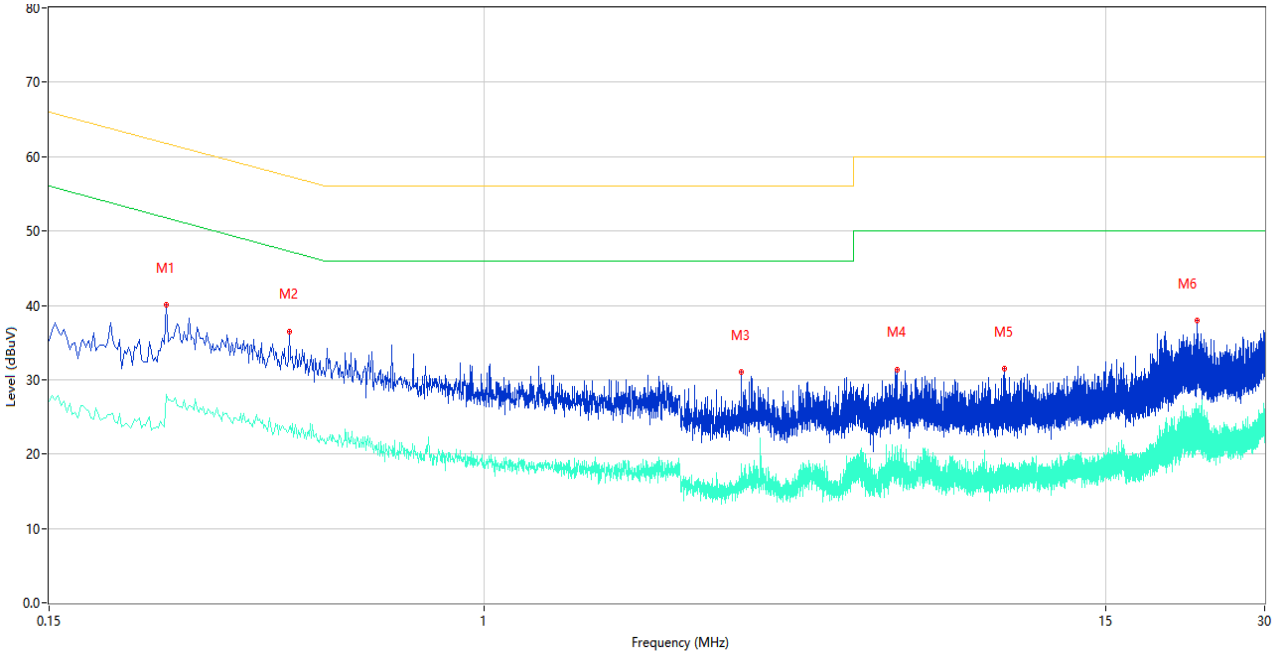
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.328	38.05	10.24	59.50	21.45	Peak	L	Pass
1**	0.328	25.60	10.24	49.50	23.90	AV	L	Pass
2	1.382	34.56	10.33	56.00	21.44	Peak	L	Pass
2**	1.382	18.96	10.33	46.00	27.04	AV	L	Pass
3	1.896	34.39	10.39	56.00	21.61	Peak	L	Pass
3**	1.896	18.18	10.39	46.00	27.82	AV	L	Pass
4	6.026	32.53	10.97	60.00	27.47	Peak	L	Pass
4**	6.026	17.64	10.97	50.00	32.36	AV	L	Pass
5	19.576	37.01	14.19	60.00	22.99	Peak	L	Pass
5**	19.576	21.31	14.19	50.00	28.69	AV	L	Pass
6	25.902	37.67	15.49	60.00	22.33	Peak	L	Pass
6**	25.902	22.39	15.49	50.00	27.61	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.250	40.06	10.16	61.76	21.70	Peak	N	Pass
1**	0.250	28.09	10.16	51.76	23.67	AV	N	Pass
2	0.428	36.48	10.17	57.29	20.81	Peak	N	Pass
2**	0.428	23.48	10.17	47.29	23.81	AV	N	Pass
3	3.064	30.98	10.42	56.00	25.02	Peak	N	Pass
3**	3.064	16.97	10.42	46.00	29.03	AV	N	Pass
4	6.042	31.33	10.87	60.00	28.67	Peak	N	Pass
4**	6.042	21.06	10.87	50.00	28.94	AV	N	Pass
5	9.638	31.45	11.59	60.00	28.55	Peak	N	Pass
5**	9.638	17.92	11.59	50.00	32.08	AV	N	Pass
6	22.322	37.97	14.81	60.00	22.03	Peak	N	Pass
6**	22.322	21.96	14.81	50.00	28.04	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 C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024, 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.

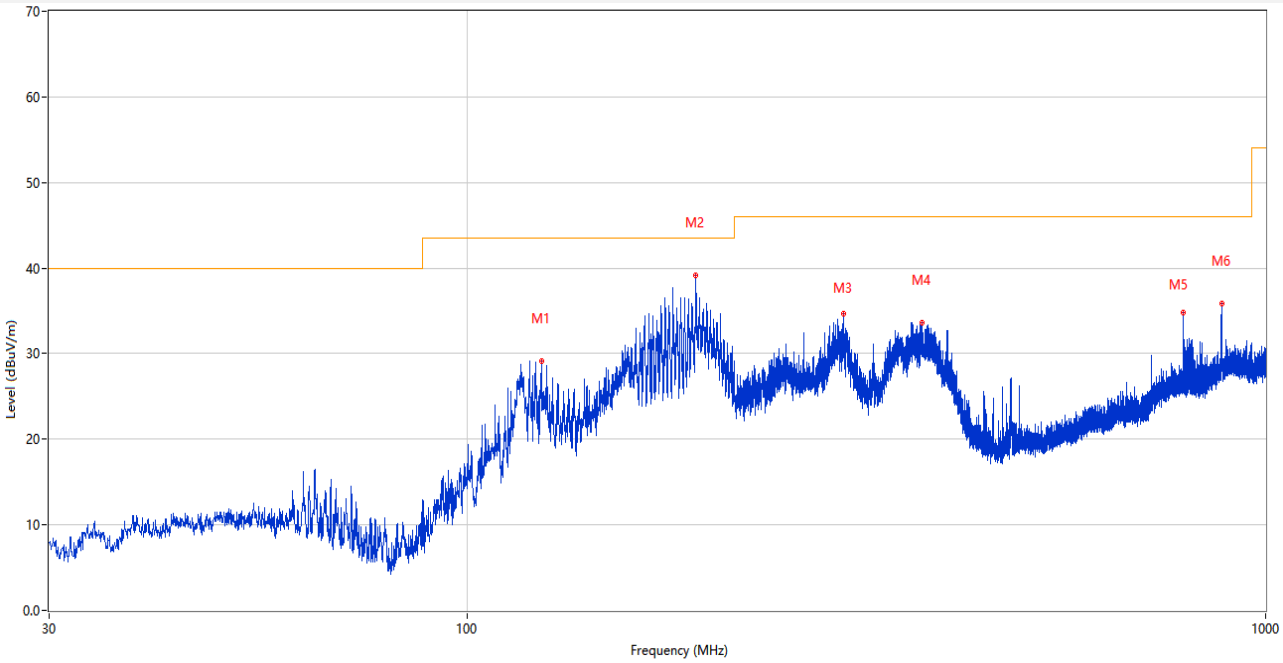
Note [3]: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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

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

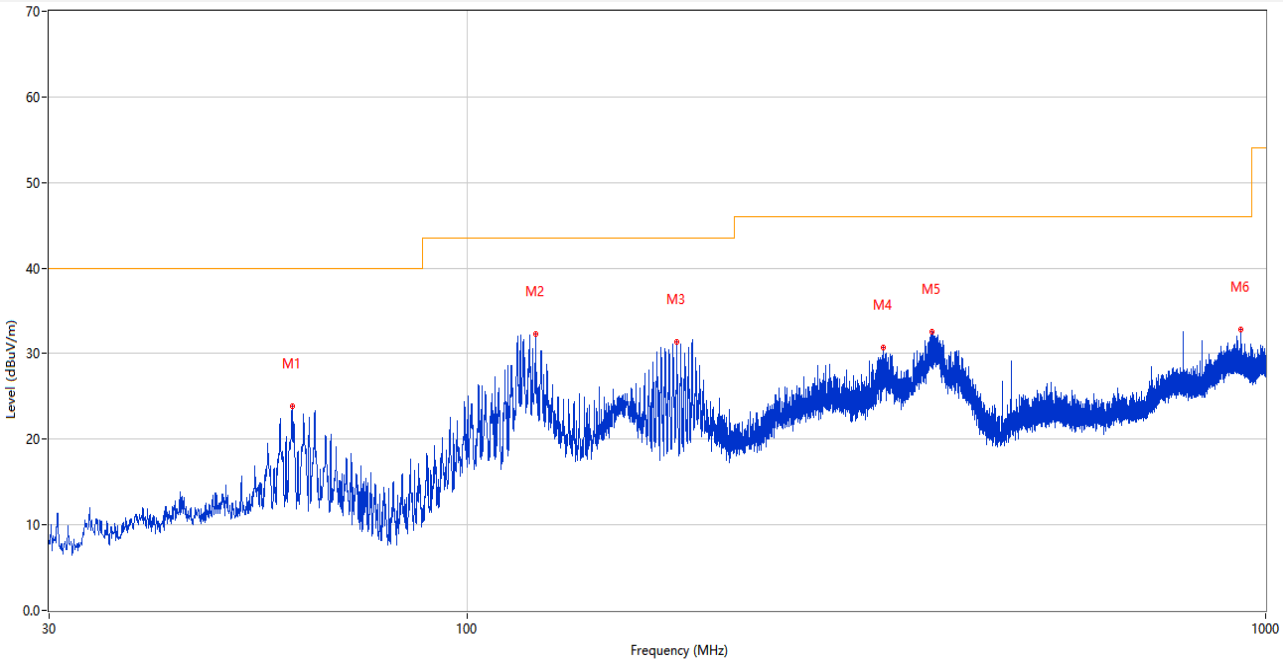
Test Data and Plots

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	123.993	29.16	-28.99	43.5	14.34	Peak	225.00	100	Horizontal	Pass
2	193.590	39.19	-25.59	43.5	4.31	Peak	157.00	100	Horizontal	Pass
3	295.926	34.68	-23.29	46.0	11.32	Peak	227.00	100	Horizontal	Pass
4	371.149	33.63	-21.73	46.0	12.37	Peak	231.00	100	Horizontal	Pass
5	789.364	34.87	-11.23	46.0	11.13	Peak	184.00	100	Horizontal	Pass
6	880.690	35.82	-9.60	46.0	10.18	Peak	321.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

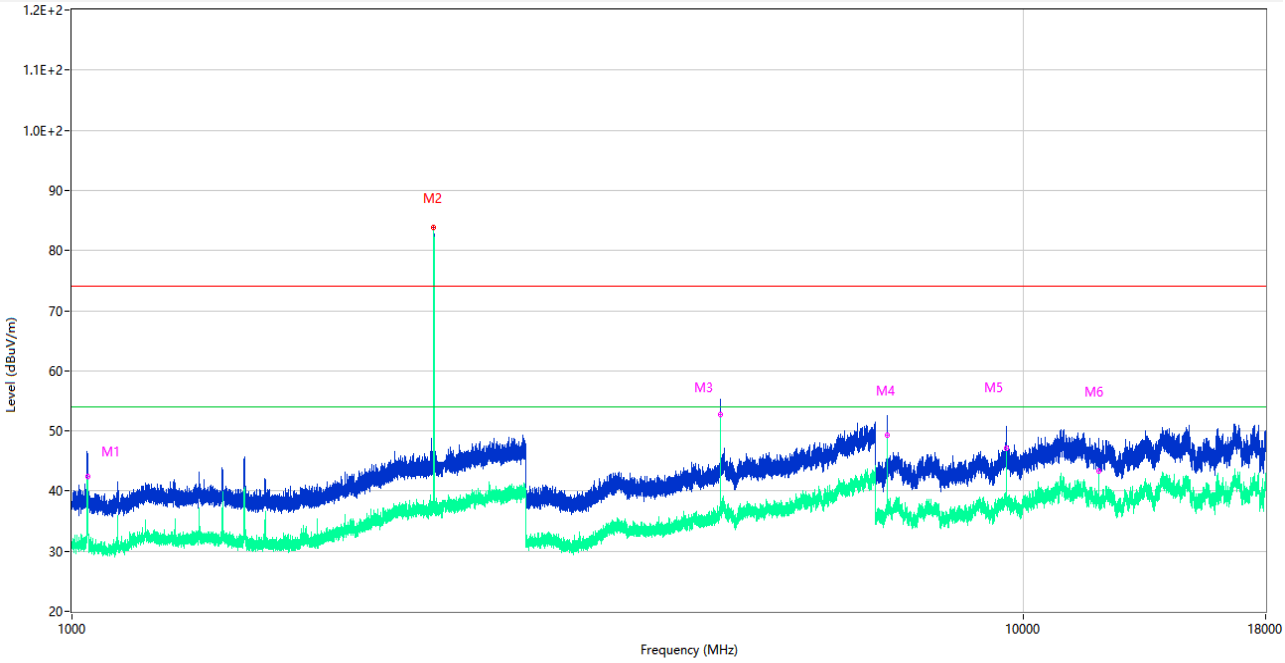


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	60.410	23.82	-26.18	40.0	16.18	Peak	183.00	100	Vertical	Pass
2	121.859	32.24	-28.67	43.5	11.26	Peak	90.00	100	Vertical	Pass
3	183.308	31.36	-27.49	43.5	12.14	Peak	92.00	100	Vertical	Pass
4	332.349	30.74	-22.38	46.0	15.26	Peak	171.00	100	Vertical	Pass
5	382.062	32.57	-21.29	46.0	13.43	Peak	171.00	100	Vertical	Pass
6	931.615	32.83	-8.57	46.0	13.17	Peak	140.00	200	Vertical	Pass

Note [1]: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

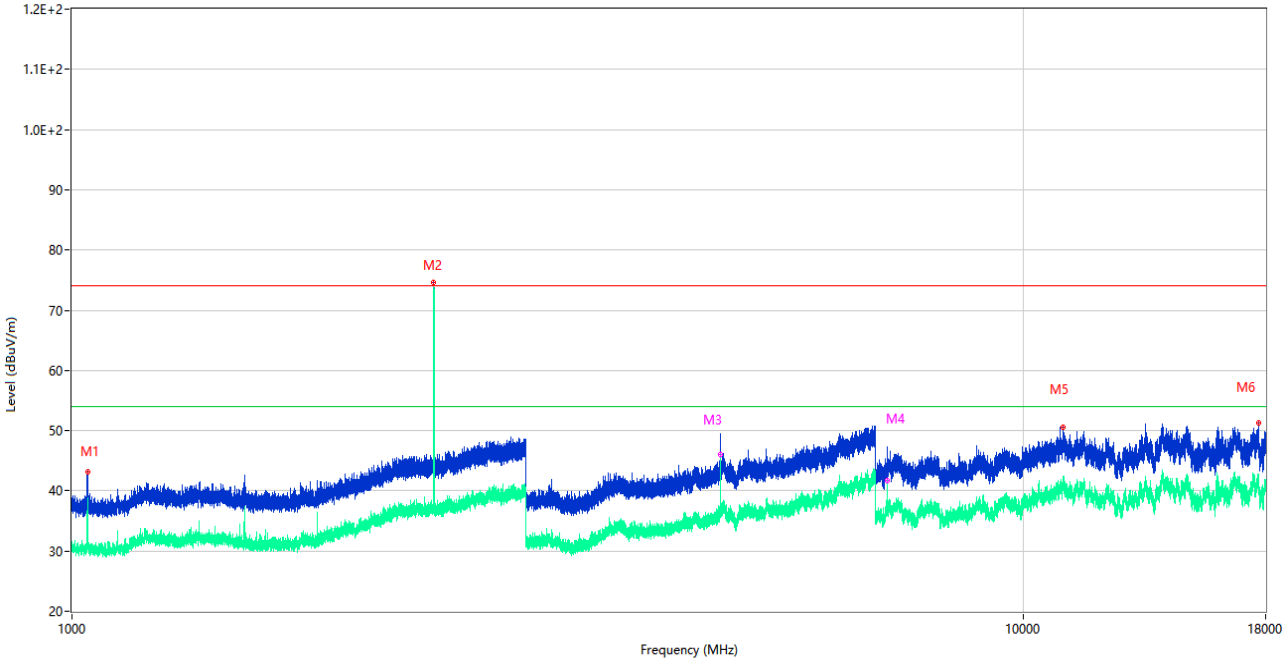
Note [2]: The spurious from 18GHz-25GHz is noise only, do not show on the report.

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



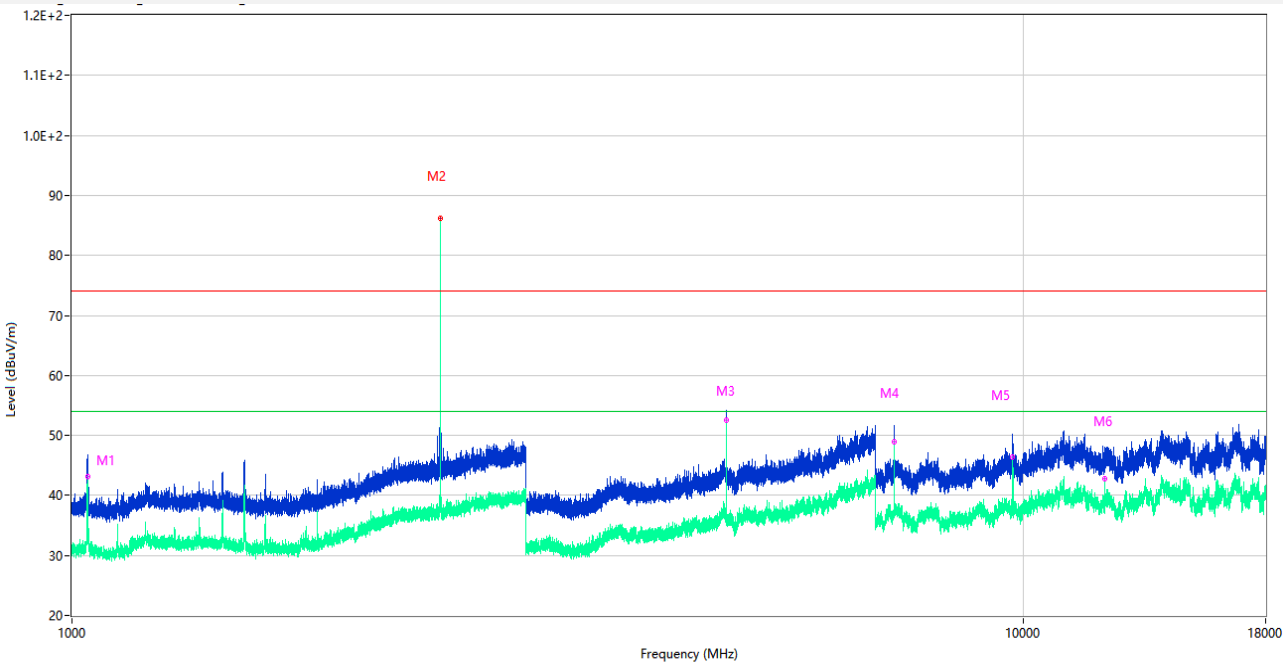
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1038.100	46.12	-19.14	74.0	27.88	Peak	342.00	100	Horizontal	Pass
1**	1038.100	42.42	-19.14	54.0	11.58	AV	342.00	100	Horizontal	Pass
2	2401.600	83.78	-13.79	--	--	Peak	181.00	200	Horizontal	N/A
2**	2401.600	81.78	-13.79	--	--	AV	181.00	200	Horizontal	N/A
3	4804.000	54.09	-6.79	74.0	19.91	Peak	345.00	200	Horizontal	Pass
3**	4804.000	52.72	-6.79	54.0	1.28	AV	345.00	200	Horizontal	Pass
4	7206.138	51.71	-1.99	74.0	22.29	Peak	355.00	100	Horizontal	Pass
4**	7206.138	49.28	-1.99	--	--	AV	355.00	100	Horizontal	Pass
5	9607.912	48.96	0.32	74.0	25.04	Peak	0.00	400	Horizontal	Pass
5**	9607.912	47.17	0.32	--	--	AV	0.00	400	Horizontal	Pass
6	12008.825	48.13	1.25	74.0	25.87	Peak	0.00	100	Horizontal	Pass
6**	12008.825	43.32	1.25	54.0	10.68	AV	0.00	100	Horizontal	Pass

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



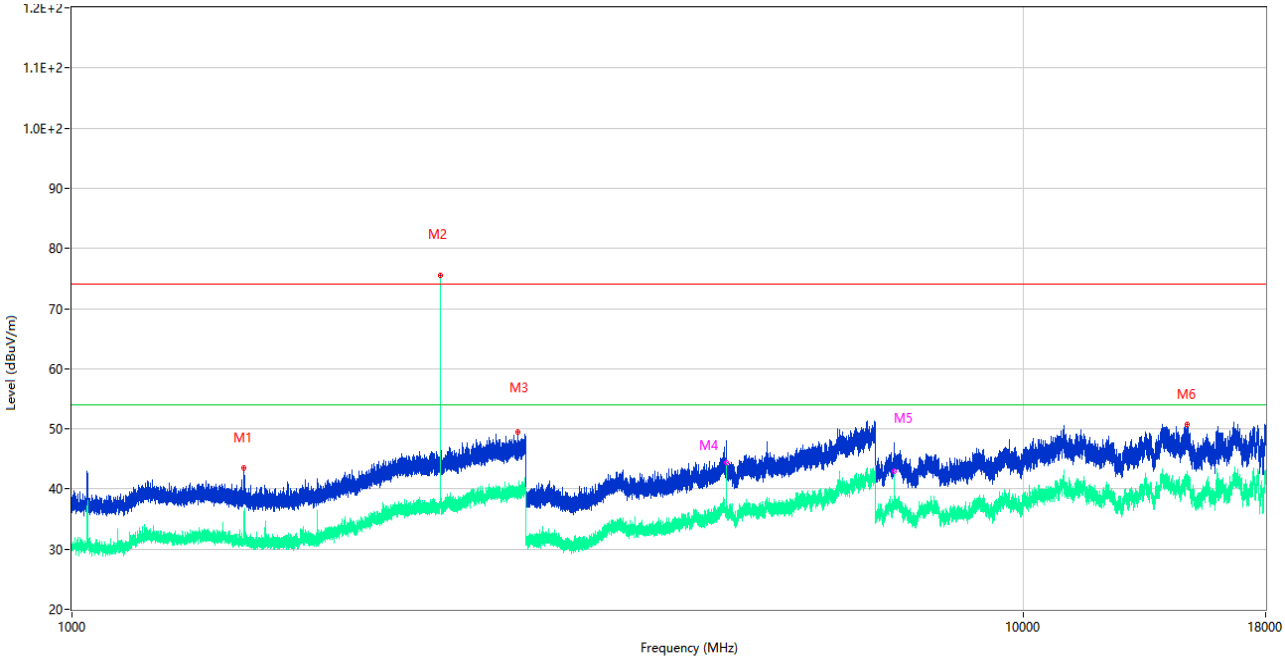
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1038.300	43.06	-19.16	74.0	30.94	Peak	115.00	100	Vertical	Pass
1**	1038.300	38.63	-19.16	54.0	15.37	AV	115.00	100	Vertical	Pass
2	2401.700	74.58	-13.85	--	--	Peak	115.00	200	Vertical	N/A
2**	2401.700	72.38	-13.85	--	--	AV	115.00	200	Vertical	N/A
3	4804.000	48.93	-6.79	74.0	25.07	Peak	280.00	200	Vertical	Pass
3**	4804.000	45.99	-6.79	54.0	8.01	AV	280.00	200	Vertical	Pass
4	7205.562	45.36	-1.99	74.0	28.64	Peak	132.00	200	Vertical	Pass
4**	7205.562	41.76	-1.99	--	--	AV	132.00	200	Vertical	N/A
5	11031.326	50.59	2.76	74.0	23.41	Peak	347.00	400	Vertical	Pass
5**	11031.326	41.98	2.76	54.0	12.02	AV	347.00	400	Vertical	Pass
6	17697.599	51.25	6.29	74.0	22.75	Peak	223.00	100	Vertical	Pass
6**	17697.599	41.62	6.29	54.0	12.38	AV	223.00	100	Vertical	Pass

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



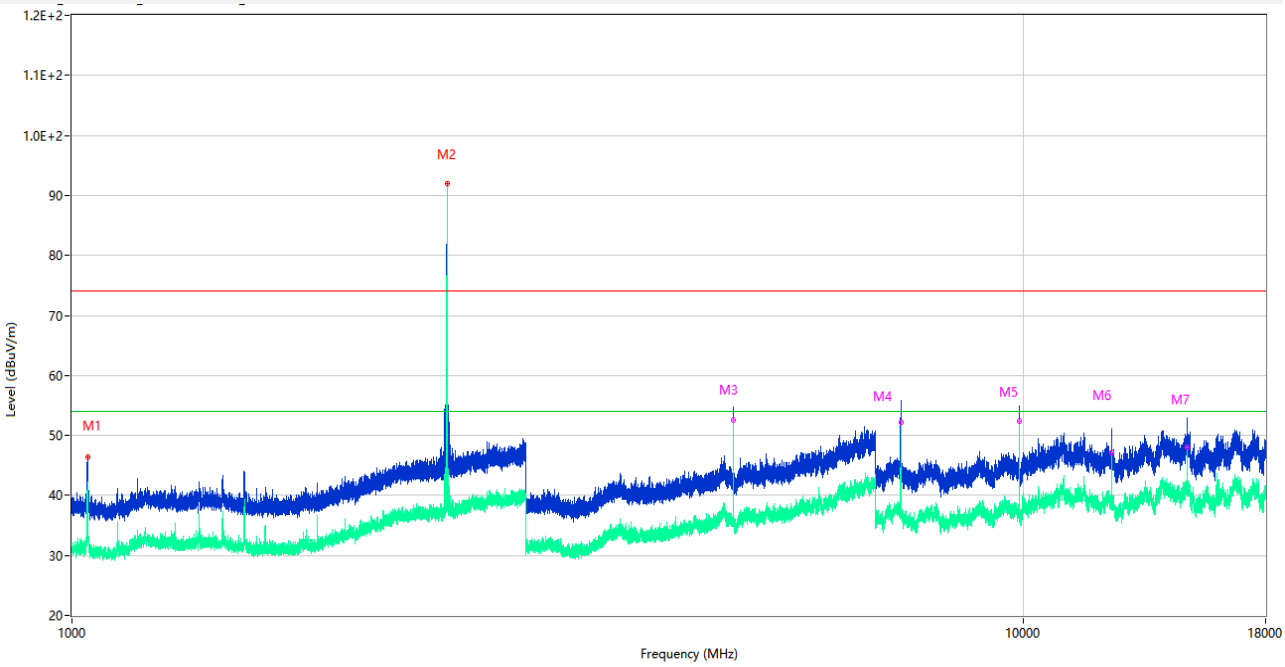
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1038.800	46.73	-19.20	74.0	27.27	Peak	208.00	100	Horizontal	Pass
1**	1038.800	43.06	-19.20	54.0	10.94	AV	208.00	100	Horizontal	Pass
2	2440.200	85.87	-13.98	--	--	Peak	37.00	300	Horizontal	N/A
2**	2440.200	85.31	-13.98	--	--	AV	37.00	300	Horizontal	N/A
3	4880.000	53.51	-7.47	74.0	20.49	Peak	319.00	100	Horizontal	Pass
3**	4880.000	52.49	-7.47	54.0	1.51	AV	319.00	100	Horizontal	Pass
4	7320.275	51.22	-1.92	74.0	22.78	Peak	11.00	400	Horizontal	Pass
4**	7320.275	48.86	-1.92	54.0	5.14	AV	11.00	400	Horizontal	Pass
5	9759.425	48.82	-0.63	74.0	25.18	Peak	360.00	200	Horizontal	Pass
5**	9759.425	46.32	-0.63	--	--	AV	360.00	200	Horizontal	N/A
6	12201.162	47.86	2.50	74.0	26.14	Peak	11.00	200	Horizontal	Pass
6**	12201.162	42.79	2.50	54.0	11.21	AV	11.00	200	Horizontal	Pass

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



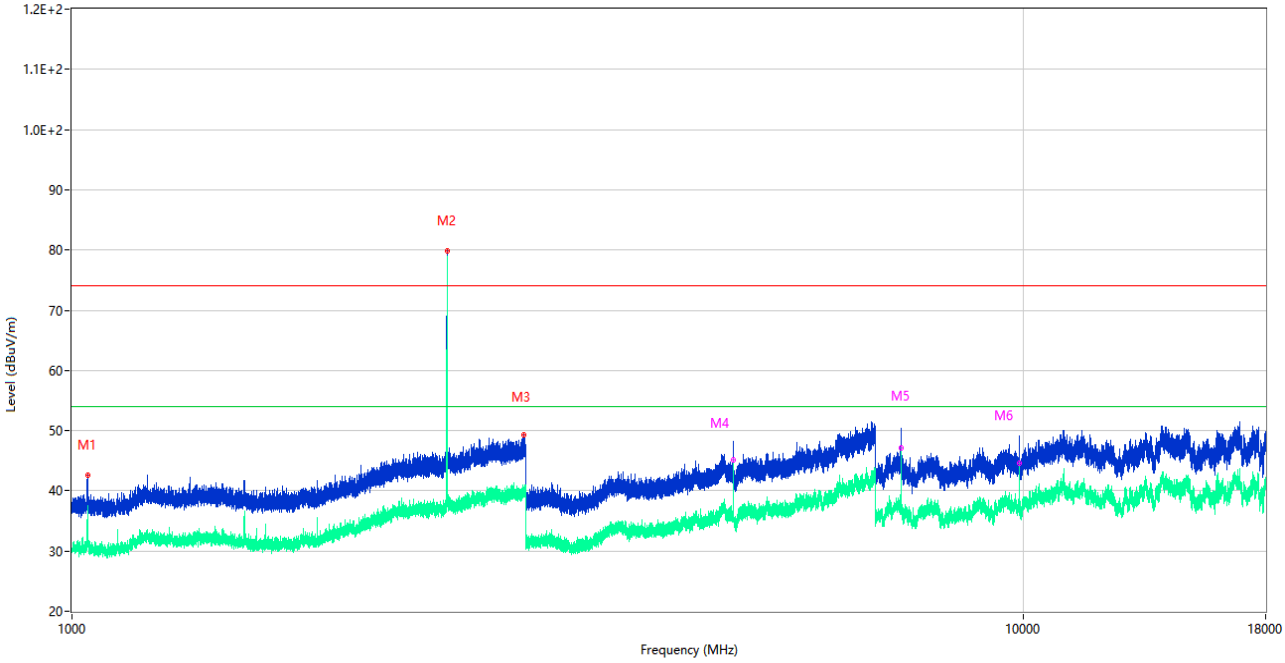
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1517.200	43.49	-18.53	74.0	30.51	Peak	209.00	300	Vertical	Pass
1**	1517.200	32.89	-18.53	54.0	21.11	AV	209.00	300	Vertical	Pass
2	2440.100	75.57	-13.98	--	--	Peak	118.00	200	Vertical	N/A
2**	2440.100	75.15	-13.98	--	--	AV	118.00	200	Vertical	N/A
3	2941.600	49.54	-11.44	74.0	24.46	Peak	259.00	200	Vertical	Pass
3**	2941.600	38.90	-11.44	54.0	15.10	AV	259.00	200	Vertical	Pass
4	4880.200	47.48	-7.32	74.0	26.52	Peak	79.00	100	Vertical	Pass
4**	4880.200	44.35	-7.32	54.0	9.65	AV	79.00	100	Vertical	Pass
5	7320.850	44.71	-1.92	74.0	29.29	Peak	200.00	100	Vertical	Pass
5**	7320.850	42.93	-1.92	54.0	11.07	AV	200.00	100	Vertical	Pass
6	14902.762	50.80	4.80	74.0	23.20	Peak	319.00	100	Vertical	Pass
6**	14902.762	40.80	4.80	54.0	13.20	AV	319.00	100	Vertical	Pass

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



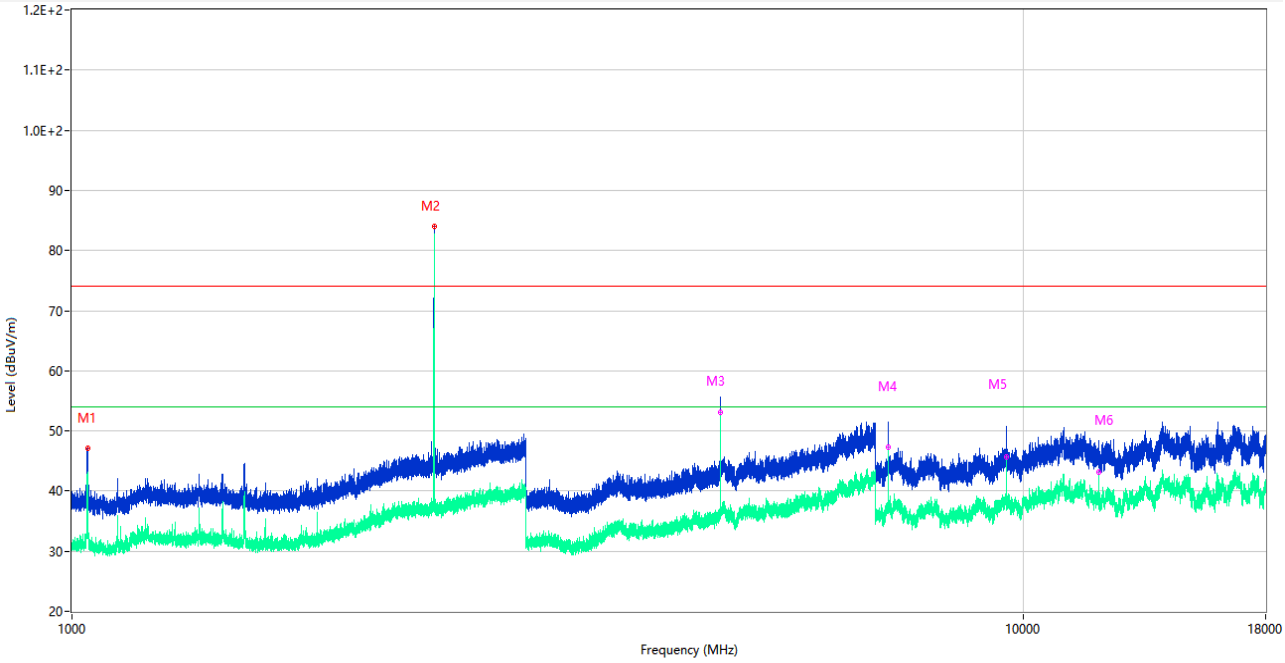
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1038.300	46.45	-19.16	74.0	27.55	Peak	202.00	100	Horizontal	Pass
1**	1038.300	41.72	-19.16	54.0	12.28	AV	202.00	100	Horizontal	Pass
2	2480.200	91.94	-13.56	--	--	Peak	351.00	200	Horizontal	N/A
2**	2480.200	91.51	-13.56	--	--	AV	351.00	200	Horizontal	N/A
3	4960.000	54.54	-6.62	74.0	19.46	Peak	0.00	100	Horizontal	Pass
3**	4960.000	52.59	-6.62	54.0	1.41	AV	0.00	100	Horizontal	Pass
4	7440.163	55.05	-1.56	74.0	18.95	Peak	20.00	200	Horizontal	Pass
4**	7440.163	52.21	-1.56	54.0	1.79	AV	20.00	200	Horizontal	Pass
5	9920.713	54.83	-0.14	74.0	19.17	Peak	176.00	400	Horizontal	Pass
5**	9920.713	52.33	-0.14	--	--	AV	176.00	400	Horizontal	N/A
6	12399.537	48.57	1.70	74.0	25.43	Peak	0.00	100	Horizontal	Pass
6**	12399.537	47.20	1.70	54.0	6.80	AV	0.00	100	Horizontal	Pass
7	14881.500	50.76	5.25	74.0	23.24	Peak	360.00	400	Horizontal	Pass
7**	14881.500	48.09	5.25	--	--	AV	360.00	400	Horizontal	N/A

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



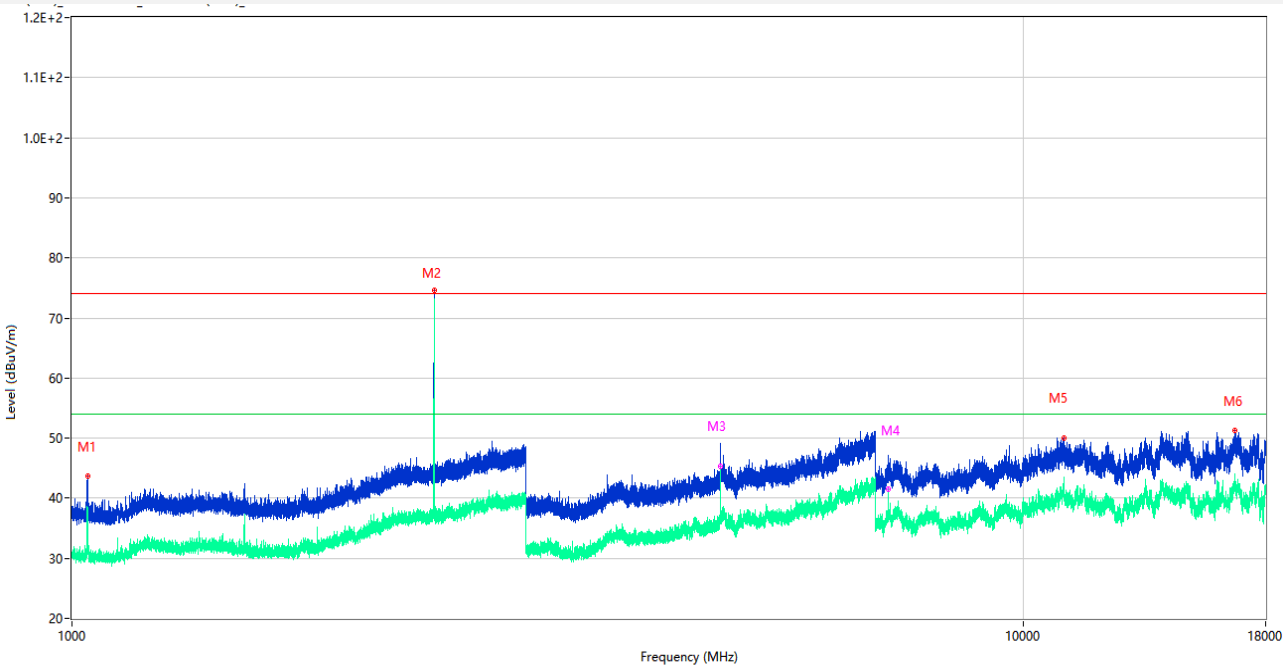
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1038.500	42.59	-19.18	74.0	31.41	Peak	130.00	200	Vertical	Pass
1**	1038.500	37.17	-19.18	54.0	16.83	AV	130.00	200	Vertical	Pass
2	2479.800	79.90	-13.54	--	--	Peak	99.00	100	Vertical	N/A
2**	2479.800	78.62	-13.54	--	--	AV	99.00	100	Vertical	N/A
3	2984.400	49.22	-10.97	74.0	24.78	Peak	0.00	200	Vertical	Pass
3**	2984.400	39.82	-10.97	54.0	14.18	AV	0.00	200	Vertical	Pass
4	4960.000	47.78	-6.62	74.0	26.22	Peak	62.00	300	Vertical	Pass
4**	4960.000	45.21	-6.62	54.0	8.79	AV	62.00	300	Vertical	Pass
5	7440.737	49.95	-1.56	74.0	24.05	Peak	183.00	400	Vertical	Pass
5**	7440.737	47.08	-1.56	54.0	6.92	AV	183.00	400	Vertical	Pass
6	9921.000	47.50	-0.11	74.0	26.50	Peak	193.00	100	Vertical	Pass
6**	9921.000	44.56	-0.11	--	--	AV	193.00	100	Vertical	N/A

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



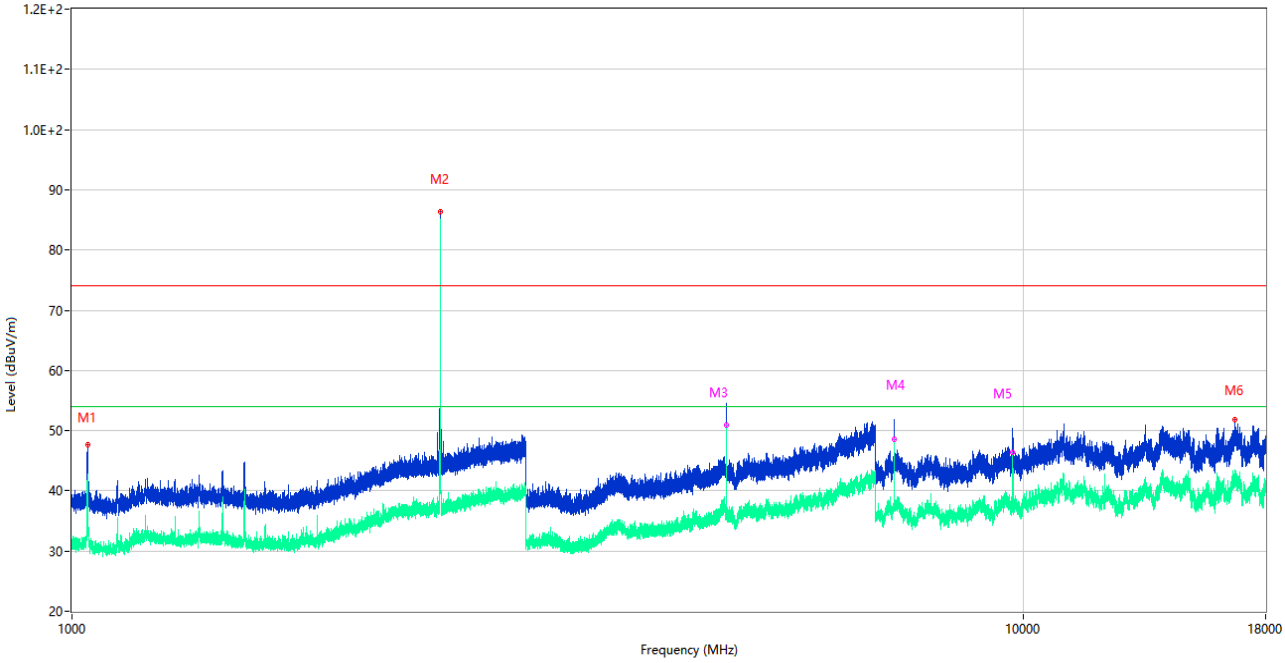
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1038.000	47.16	-19.13	74.0	26.84	Peak	207.00	100	Horizontal	Pass
1**	1038.000	42.49	-19.13	54.0	11.51	AV	207.00	100	Horizontal	Pass
2	2404.400	83.98	-14.19	--	--	Peak	40.00	200	Horizontal	N/A
2**	2404.400	81.81	-14.19	--	--	AV	40.00	200	Horizontal	N/A
3	4807.800	54.25	-6.56	74.0	19.75	Peak	321.00	200	Horizontal	Pass
3**	4807.800	53.09	-6.56	54.0	0.91	AV	321.00	200	Horizontal	Pass
4	7211.025	50.52	-1.93	74.0	23.48	Peak	27.00	200	Horizontal	Pass
4**	7211.025	47.23	-1.93	--	--	AV	27.00	200	Horizontal	N/A
5	9615.963	48.51	0.20	74.0	25.49	Peak	349.00	100	Horizontal	Pass
5**	9615.963	45.66	0.20	--	--	AV	349.00	100	Horizontal	N/A
6	12022.338	47.85	1.19	74.0	26.15	Peak	6.00	100	Horizontal	Pass
6**	12022.338	43.18	1.19	54.0	10.82	AV	6.00	100	Horizontal	Pass

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



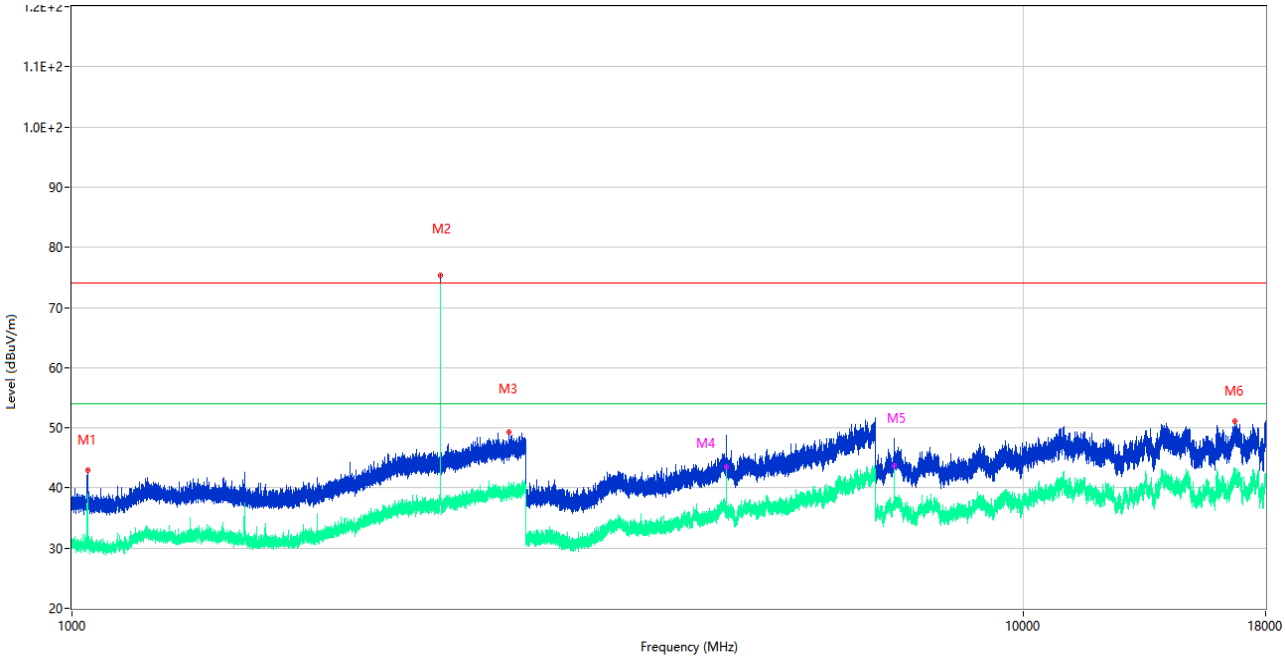
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1038.000	43.61	-19.13	74.0	30.39	Peak	127.00	300	Vertical	Pass
1**	1038.000	36.98	-19.13	54.0	17.02	AV	127.00	300	Vertical	Pass
2	2404.500	74.53	-14.16	--	--	Peak	117.00	400	Vertical	N/A
2**	2404.500	72.46	-14.16	--	--	AV	117.00	400	Vertical	N/A
3	4808.000	47.83	-6.56	74.0	26.17	Peak	9.00	100	Vertical	Pass
3**	4808.000	45.26	-6.56	54.0	8.74	AV	9.00	100	Vertical	Pass
4	7212.175	46.15	-1.85	74.0	27.85	Peak	207.00	100	Vertical	Pass
4**	7212.175	41.52	-1.85	--	--	AV	207.00	100	Vertical	Pass
5	11044.838	50.01	3.25	74.0	23.99	Peak	136.00	100	Vertical	Pass
5**	11044.838	42.78	3.25	54.0	11.22	AV	136.00	100	Vertical	Pass
6	16706.662	51.35	6.79	74.0	22.65	Peak	275.00	400	Vertical	Pass
6**	16706.662	42.68	6.79	54.0	11.32	AV	275.00	400	Vertical	Pass

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



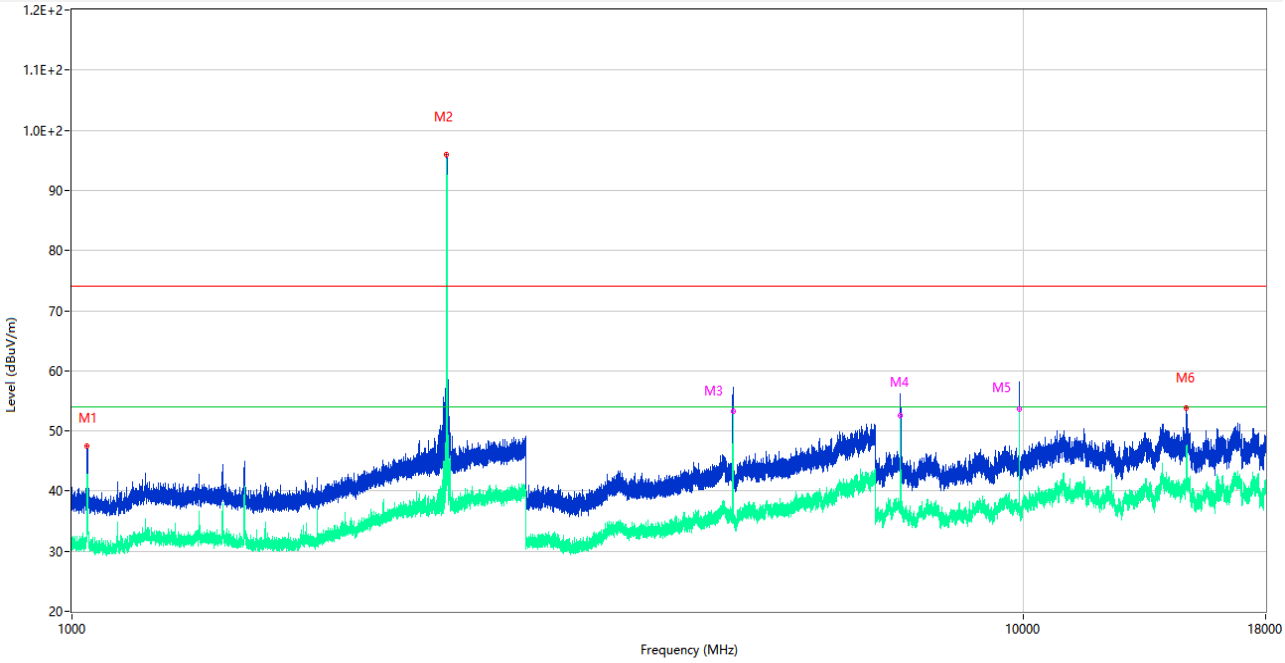
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1038.600	47.73	-19.19	74.0	26.27	Peak	211.00	200	Horizontal	Pass
1**	1038.600	41.95	-19.19	54.0	12.05	AV	211.00	200	Horizontal	Pass
2	2439.400	86.36	-13.88	--	--	Peak	201.00	200	Horizontal	N/A
2**	2439.400	82.67	-13.88	--	--	AV	201.00	200	Horizontal	N/A
3	4880.400	52.85	-7.17	74.0	21.15	Peak	301.00	100	Horizontal	Pass
3**	4880.400	51.00	-7.17	54.0	3.00	AV	301.00	100	Horizontal	Pass
4	7320.275	49.72	-1.92	74.0	24.28	Peak	30.00	400	Horizontal	Pass
4**	7320.275	48.57	-1.92	54.0	5.43	AV	30.00	400	Horizontal	Pass
5	9760.000	47.82	-0.65	74.0	26.18	Peak	39.00	200	Horizontal	Pass
5**	9760.000	46.32	-0.65	--	--	AV	39.00	200	Horizontal	N/A
6	16714.012	51.79	6.89	74.0	22.21	Peak	82.00	100	Horizontal	Pass
6**	16714.012	42.74	6.89	54.0	11.26	AV	82.00	100	Horizontal	Pass

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



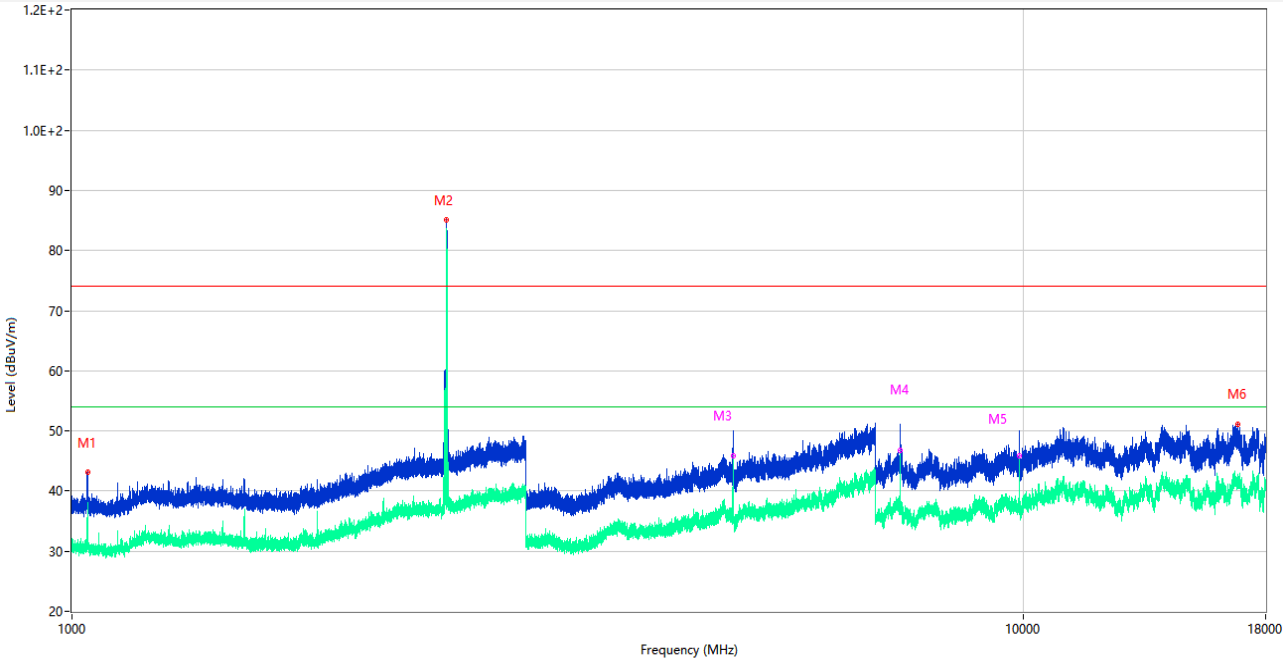
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1038.400	43.01	-19.17	74.0	30.99	Peak	111.00	400	Vertical	Pass
1**	1038.400	37.89	-19.17	54.0	16.11	AV	111.00	400	Vertical	Pass
2	2439.500	75.30	-13.95	--	--	Peak	122.00	200	Vertical	N/A
2**	2439.500	72.83	-13.95	--	--	AV	122.00	200	Vertical	N/A
3	2877.800	49.23	-11.35	74.0	24.77	Peak	283.00	200	Vertical	Pass
3**	2877.800	39.80	-11.35	54.0	14.20	AV	283.00	200	Vertical	Pass
4	4879.600	47.34	-7.44	74.0	26.66	Peak	46.00	300	Vertical	Pass
4**	4879.600	43.45	-7.44	54.0	10.55	AV	46.00	300	Vertical	Pass
5	7319.987	46.10	-1.92	74.0	27.90	Peak	181.00	400	Vertical	Pass
5**	7319.987	43.64	-1.92	54.0	10.36	AV	181.00	400	Vertical	Pass
6	16709.287	51.10	6.88	74.0	22.90	Peak	250.00	100	Vertical	Pass
6**	16709.287	42.27	6.88	54.0	11.73	AV	250.00	100	Vertical	Pass

GFSK (BLE 2Mbps) HIGH 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	1037.700	47.49	-19.08	74.0	26.51	Peak	206.00	200	Horizontal	Pass
1**	1037.700	41.79	-19.08	54.0	12.21	AV	206.00	200	Horizontal	Pass
2	2477.800	95.86	-13.36	--	--	Peak	356.00	200	Horizontal	N/A
2**	2477.800	94.59	-13.36	--	--	AV	356.00	200	Horizontal	N/A
3	4956.000	55.72	-6.38	74.0	18.28	Peak	317.00	100	Horizontal	Pass
3**	4956.000	53.34	-6.38	54.0	0.66	AV	317.00	100	Horizontal	Pass
4	7433.550	54.97	-1.42	74.0	19.03	Peak	21.00	100	Horizontal	Pass
4**	7433.550	52.62	-1.42	54.0	1.38	AV	21.00	100	Horizontal	Pass
5	9909.787	58.07	0.33	74.0	15.93	Peak	31.00	100	Horizontal	Pass
5**	9909.787	53.61	0.33	--	--	AV	31.00	100	Horizontal	Pass
6	14864.437	53.80	5.87	74.0	20.20	Peak	342.00	100	Horizontal	Pass
6**	14864.437	46.33	5.87	--	--	AV	342.00	100	Horizontal	Pass

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1038.400	43.06	-19.17	74.0	30.94	Peak	113.00	300	Vertical	Pass
1**	1038.400	37.63	-19.17	54.0	16.37	AV	113.00	300	Vertical	Pass
2	2477.400	85.06	-13.62	--	--	Peak	92.00	200	Vertical	N/A
2**	2477.400	80.29	-13.62	--	--	AV	92.00	200	Vertical	N/A
3	4957.000	49.87	-6.38	74.0	24.13	Peak	66.00	100	Vertical	Pass
3**	4957.000	45.83	-6.38	54.0	8.17	AV	66.00	100	Vertical	Pass
4	7435.275	50.96	-1.46	74.0	23.04	Peak	182.00	100	Vertical	Pass
4**	7435.275	46.79	-1.46	54.0	7.21	AV	182.00	100	Vertical	Pass
5	9913.813	50.01	0.12	74.0	23.99	Peak	201.00	300	Vertical	Pass
5**	9913.813	45.86	0.12	--	--	AV	201.00	300	Vertical	N/A
6	16828.463	51.12	5.94	74.0	22.88	Peak	353.00	100	Vertical	Pass
6**	16828.463	42.21	5.94	54.0	11.79	AV	353.00	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 C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024, 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.

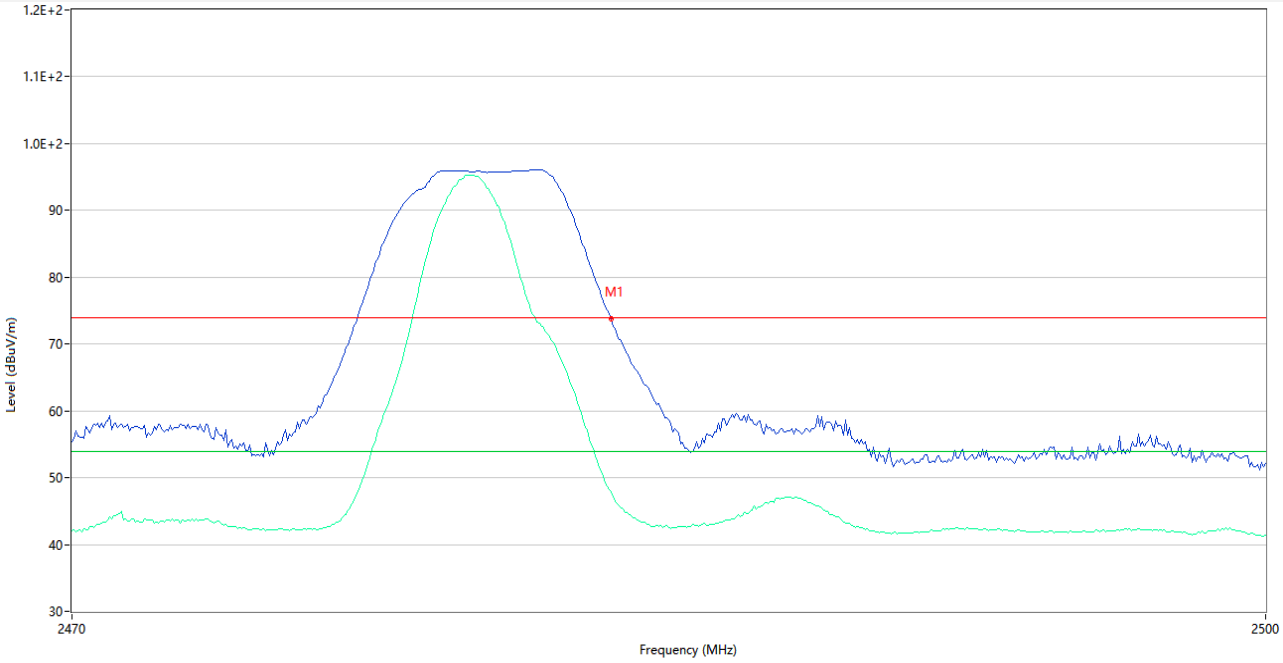
Note [5]: Both horizontal and vertical directions were pre tested, only the worst configuration has been reported in this report.

Test Data and Plots

GFSK (BLE 1Mbps) LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2385.500	55.35	-1.72	74.0	18.65	Peak	28.00	200	Horizontal	Pass
1**	2385.500	41.88	-1.72	54.0	12.12	AV	28.00	200	Horizontal	Pass
2	2390.000	51.63	-2.16	74.0	22.37	Peak	78.00	200	Horizontal	Pass
2**	2390.000	41.20	-2.16	54.0	12.80	AV	78.00	200	Horizontal	Pass
3	2386.667	54.47	-1.54	74.0	19.53	Peak	344.00	100	Horizontal	Pass
3**	2386.667	41.92	-1.54	54.0	12.08	AV	344.00	100	Horizontal	Pass

GFSK (BLE 1Mbps) HIGH CHANNEL

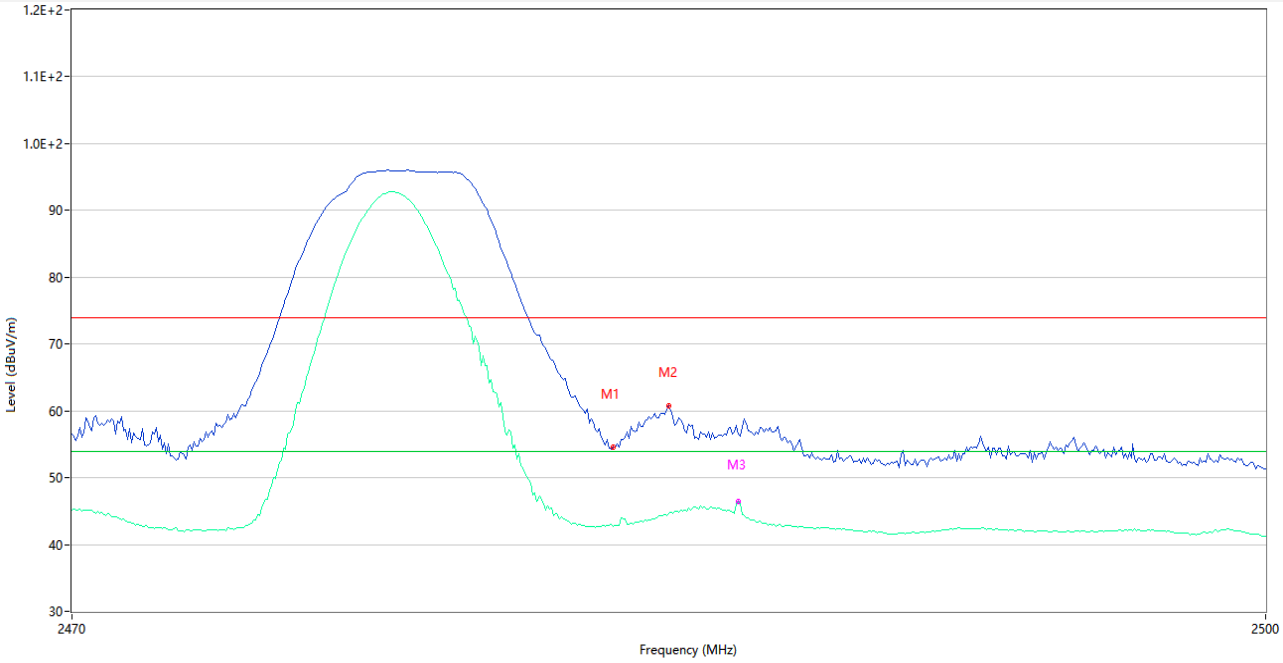


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	73.74	-1.04	74.0	0.26	Peak	350.00	100	Horizontal	Pass
1**	2483.500	47.84	-1.04	54.0	6.16	AV	350.00	100	Horizontal	Pass

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	2321.667	53.52	-1.83	74.0	20.48	Peak	294.00	200	Horizontal	Pass
1**	2321.667	41.53	-1.83	54.0	12.47	AV	294.00	200	Horizontal	Pass
2	2390.000	51.94	-2.16	74.0	22.06	Peak	84.00	200	Horizontal	Pass
2**	2390.000	41.27	-2.16	54.0	12.73	AV	84.00	200	Horizontal	Pass
3	2381.833	51.97	-1.52	74.0	22.03	Peak	104.00	100	Horizontal	Pass
3**	2381.833	41.97	-1.52	54.0	12.03	AV	104.00	100	Horizontal	Pass

GFSK (BLE 2Mbps) HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	54.63	-1.03	74.0	19.37	Peak	14.00	400	Horizontal	Pass
1**	2483.500	42.77	-1.03	54.0	11.23	AV	14.00	400	Horizontal	Pass
2	2484.950	60.80	-1.17	74.0	13.20	Peak	351.00	200	Horizontal	Pass
2**	2484.950	44.57	-1.17	54.0	9.43	AV	351.00	200	Horizontal	Pass
3	2486.700	56.50	-1.24	74.0	17.50	Peak	0.00	100	Horizontal	Pass
3**	2486.700	46.45	-1.24	54.0	7.55	AV	0.00	100	Horizontal	Pass

A.8 Power Spectral Density (PSD)

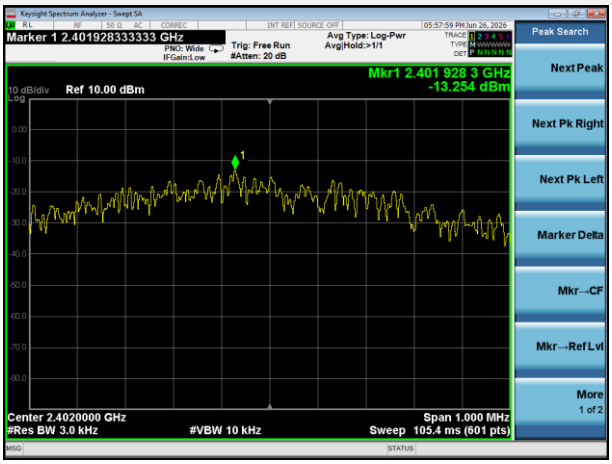
Test Data

GFSK (BLE 1Mbps)			
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low Channel	-13.25	8	Pass
Middle Channel	-13.04	8	Pass
High Channel	-14.44	8	Pass

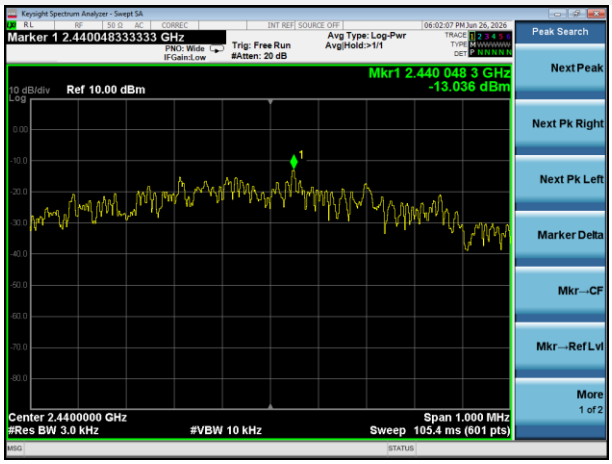
GFSK (BLE 2Mbps)			
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low Channel	-15.88	8	Pass
Middle Channel	-17.34	8	Pass
High Channel	-16.61	8	Pass

Test Plots

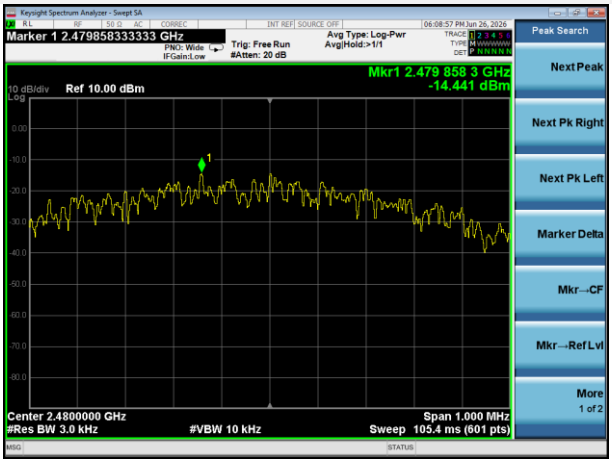
GFSK (BLE 1Mbps) LOW CHANNEL



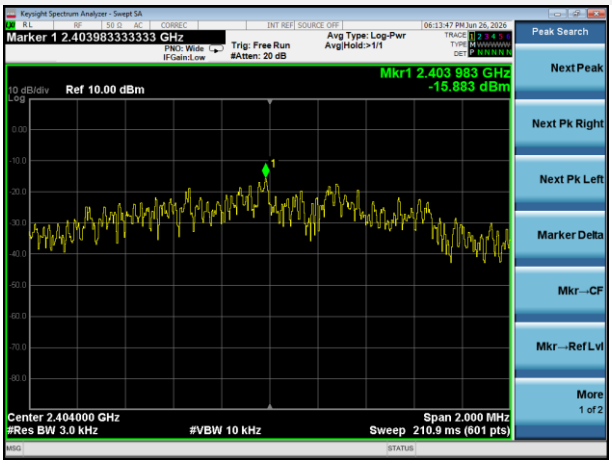
GFSK (BLE 1Mbps) MIDDLE CHANNEL



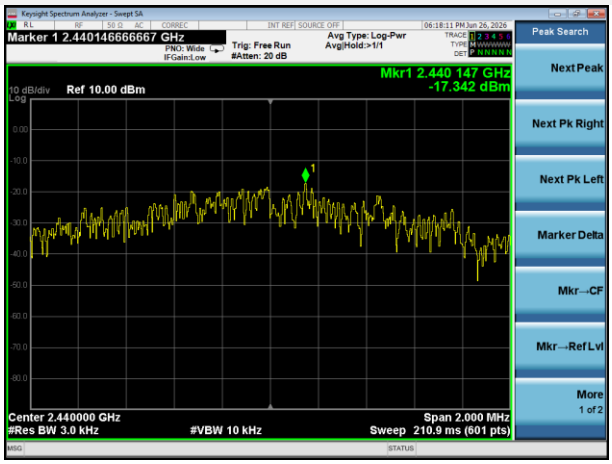
GFSK (BLE 1Mbps) HIGH CHANNEL



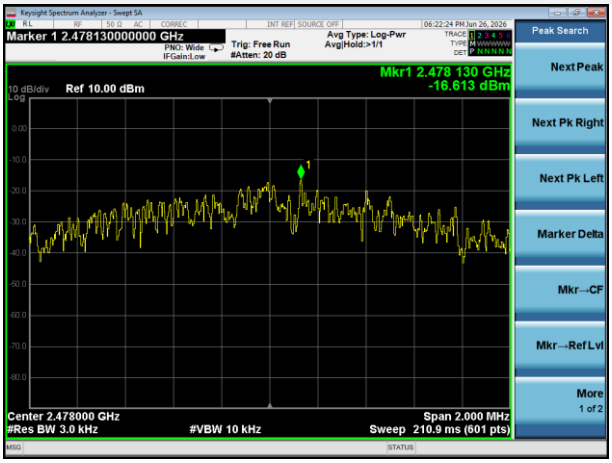
GFSK (BLE 2Mbps) LOW CHANNEL



GFSK (BLE 2Mbps) MIDDLE CHANNEL



GFSK (BLE 2Mbps) HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “Ti-CC26060445-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “Ti-CC26060445-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “Ti-CC26060445-AI.PDF”.

Statement

1. The laboratory 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. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the “inspection and testing dedicated stamp” or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--END OF REPORT--