

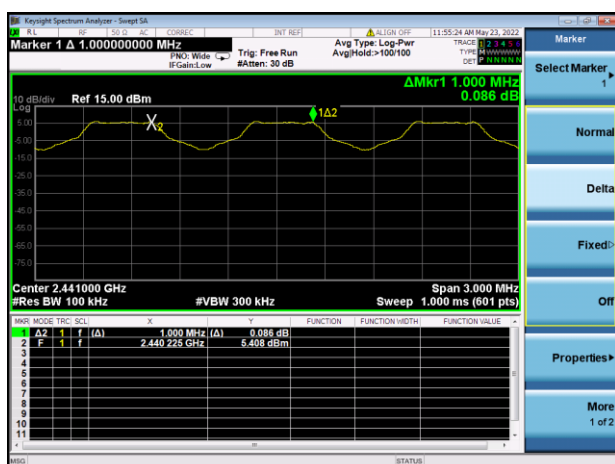
A.4 Hopping Frequency Separation

Test Data

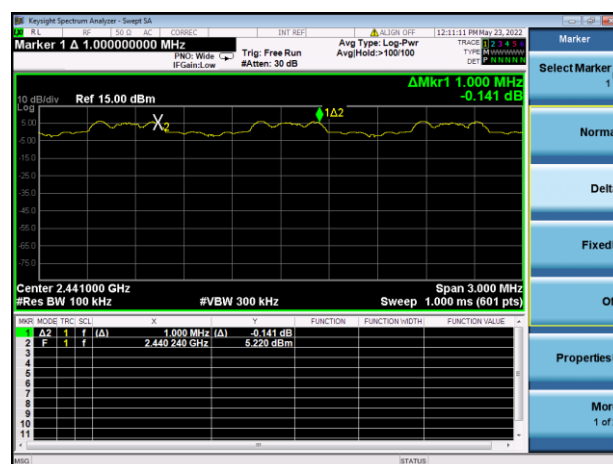
Mode	Frequency separation (MHz)	2/3 of the 20 dB Bandwidth (MHz)	Verdict
GFSK	1.000	0.637	Pass
8-DPSK	1.000	0.803	Pass

Test Plots

GFSK



8-DPSK



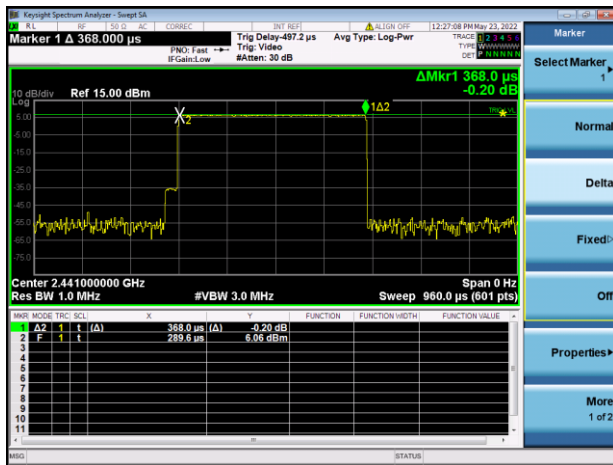
A.5 Average Time of Occupancy

Test Data

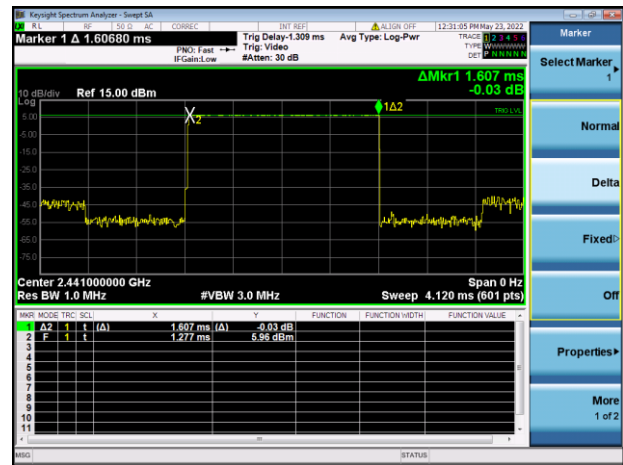
GFSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.36800	117.760	0.4	Pass
DH 3	1.60700	257.120	0.4	Pass
DH 5	2.86300	305.387	0.4	Pass
8-DPSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.37760	120.832	0.4	Pass
DH 3	1.62700	260.320	0.4	Pass
DH 5	2.87600	306.773	0.4	Pass
AFH Mode				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.36960	59.136	0.4	Pass
DH 3	1.62100	129.680	0.4	Pass
DH 5	2.86300	152.693	0.4	Pass

Test Plots

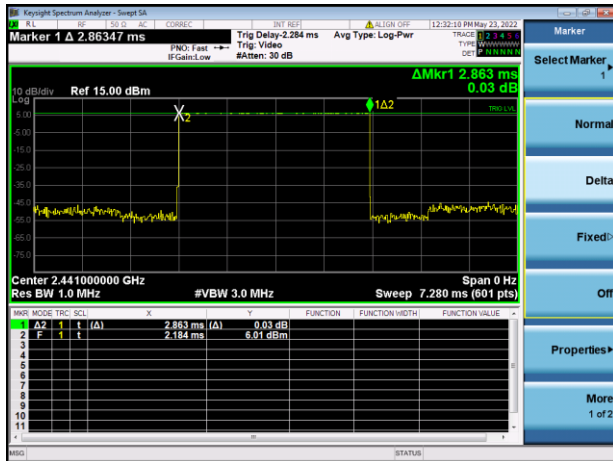
GFSK DH1



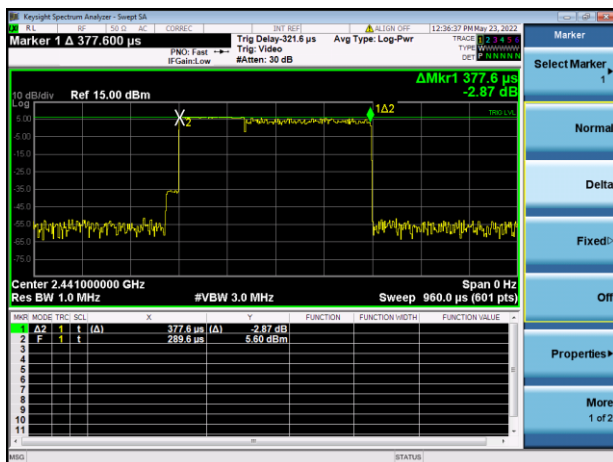
GFSK DH3



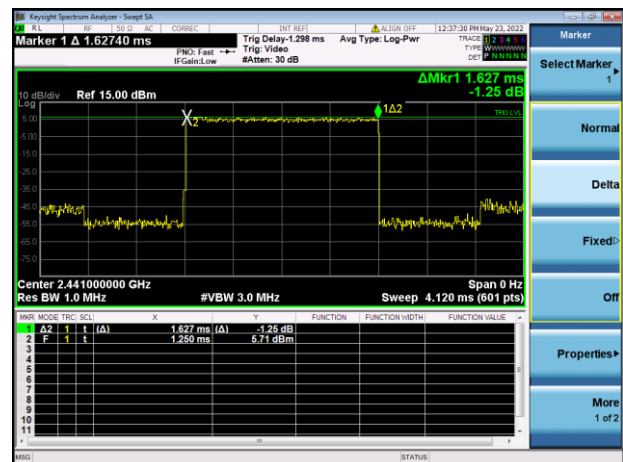
GFSK DH5



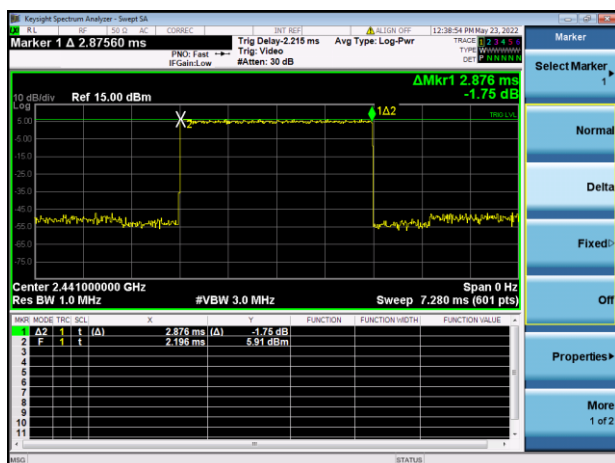
8-DPSK DH1



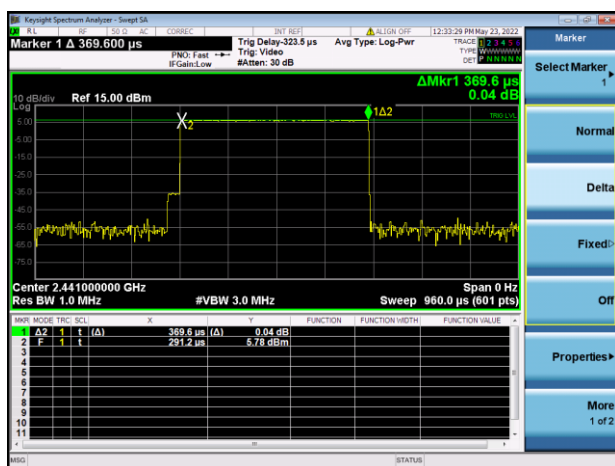
8-DPSK DH3



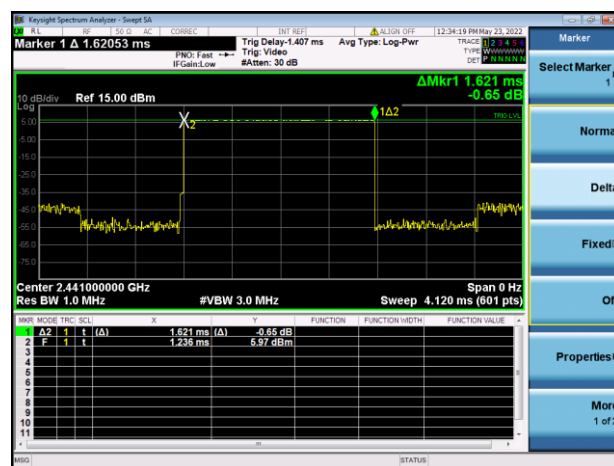
8-DPSK DH5



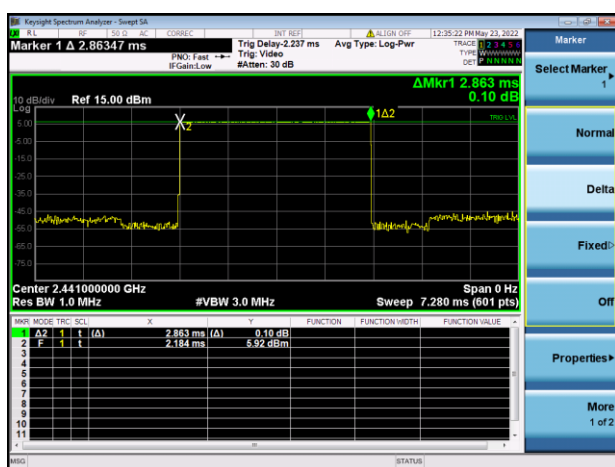
AFH Mode DH1



AFH Mode DH3



AFH Mode DH5



A.6 Conducted Spurious Emissions & Authorized-band band-edge

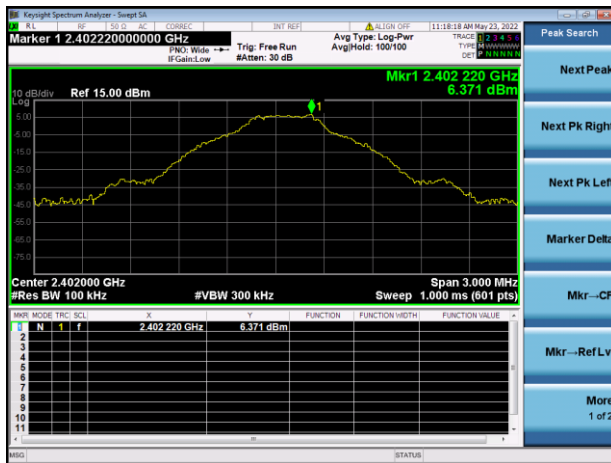
Test Data

GFSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-42.51	6.37	-13.63	Pass
Middle	-42.74	5.85	-14.15	Pass
High	-42.27	5.98	-14.02	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-41.82	6.75	-13.25	Pass
Middle	-42.80	5.88	-14.12	Pass
High	-41.81	6.02	-13.99	Pass

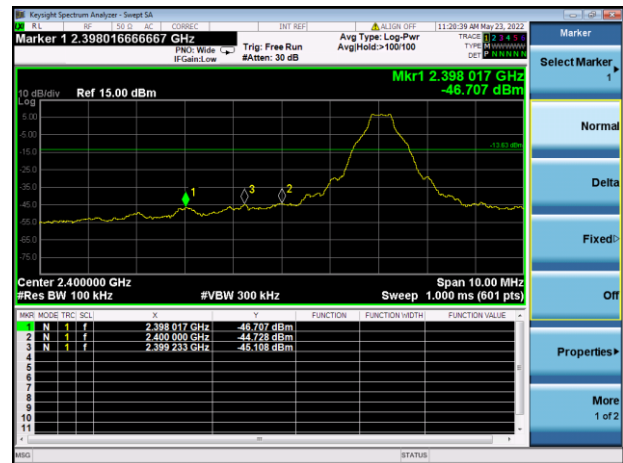
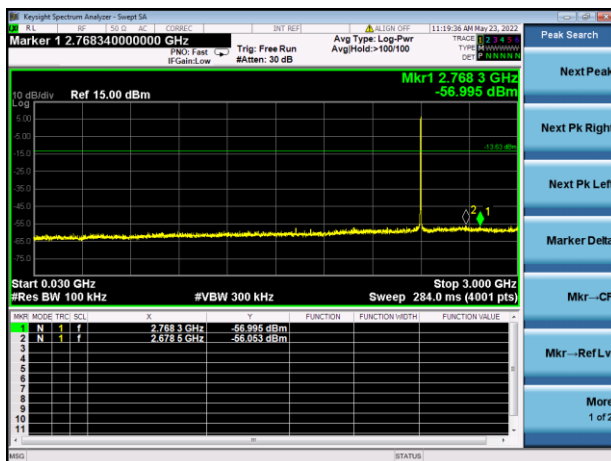
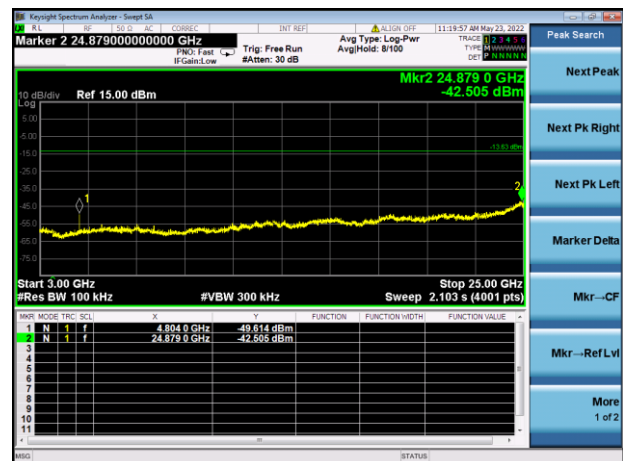
Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-42.00	6.70	-13.30	Pass
8-DPSK	-42.72	6.86	-13.14	Pass

Test Plots

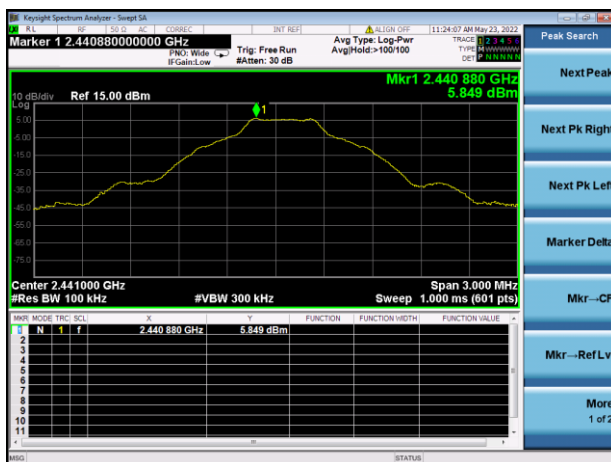
GFSK LOW CHANNEL, CARRIER LEVEL



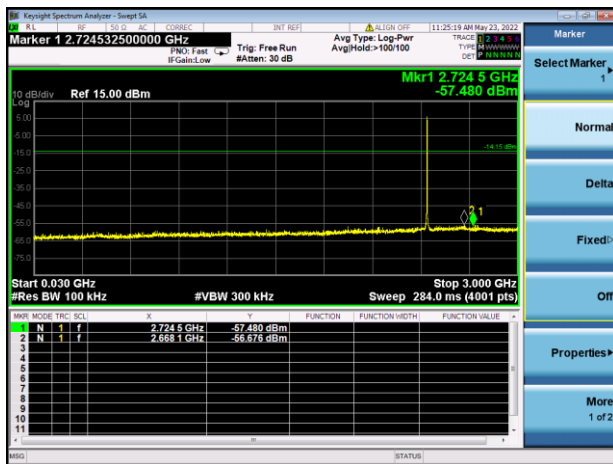
GFSK LOW CHANNEL, BAND EDGE

GFSK LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHzGFSK LOW CHANNEL, SPURIOUS
3 GHz ~ 25 GHz

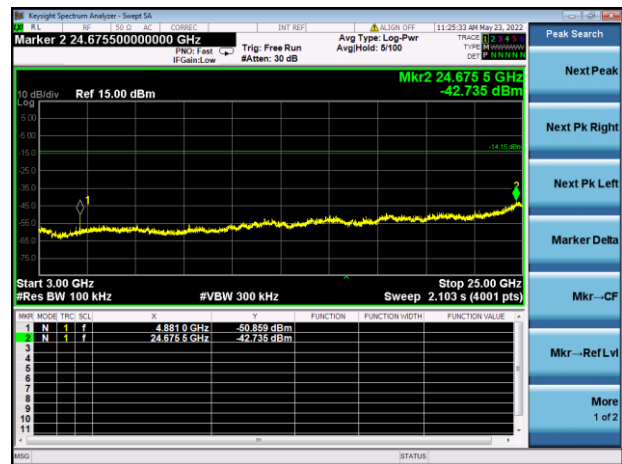
GFSK MIDDLE CHANNEL, CARRIER LEVEL



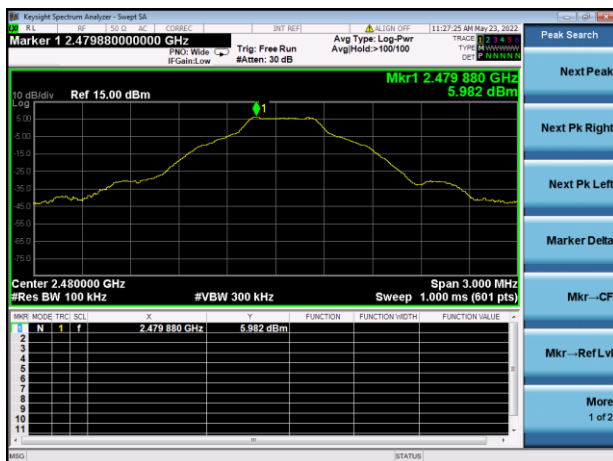
GFSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



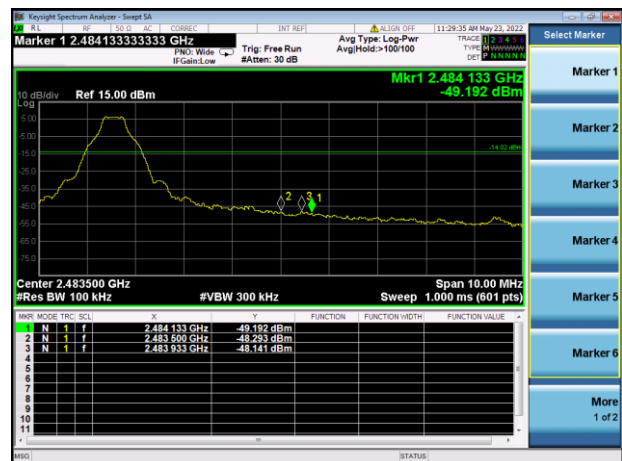
GFSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



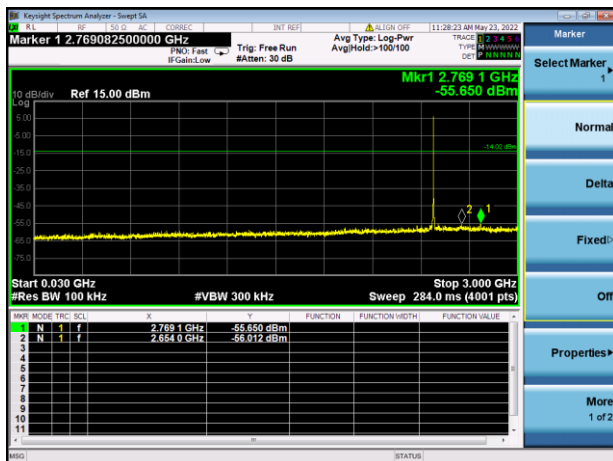
GFSK HIGH CHANNEL, CARRIER LEVEL



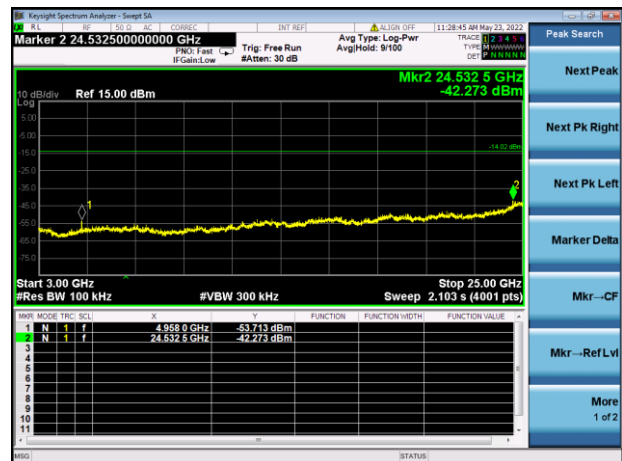
GFSK HIGH CHANNEL, BAND EDGE



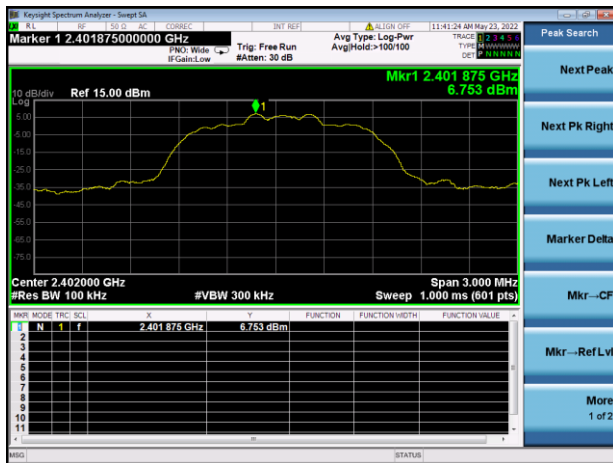
GFSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



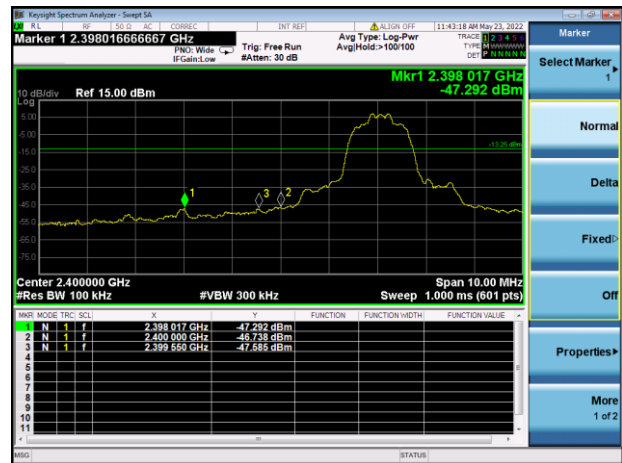
GFSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



8-DPSK LOW CHANNEL, CARRIER LEVEL

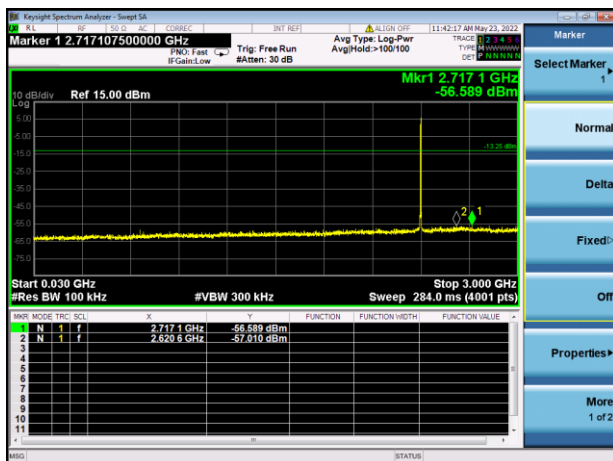


8-DPSK LOW CHANNEL, BAND EDGE



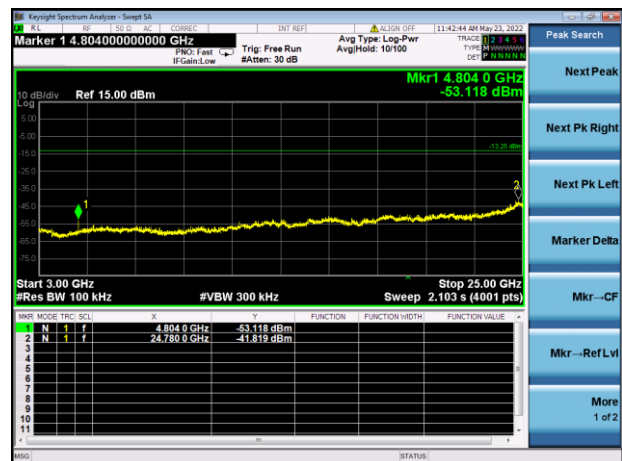
8-DPSK LOW CHANNEL, SPURIOUS

30 MHz ~ 3 GHz

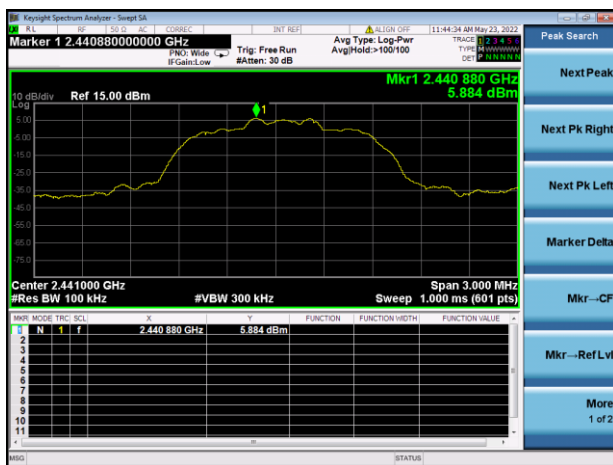


8-DPSK LOW CHANNEL, SPURIOUS

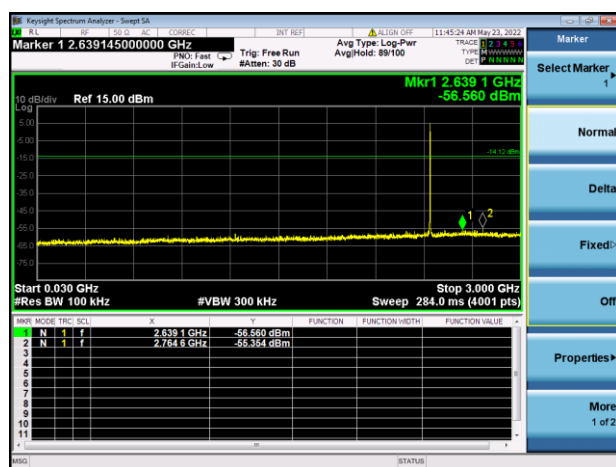
3 GHz ~ 25 GHz



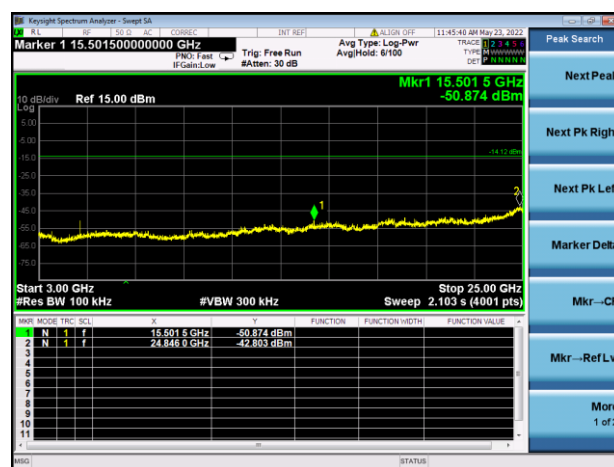
8-DPSK MIDDLE CHANNEL, CARRIER LEVEL



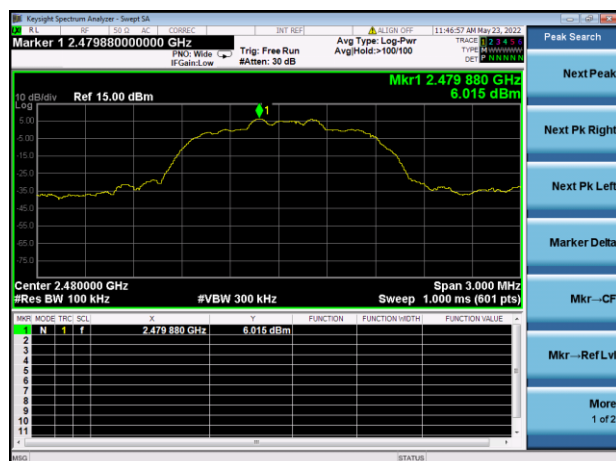
8-DPSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



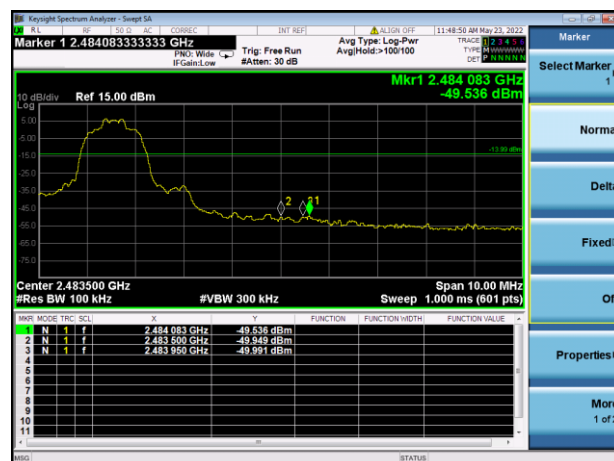
8-DPSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



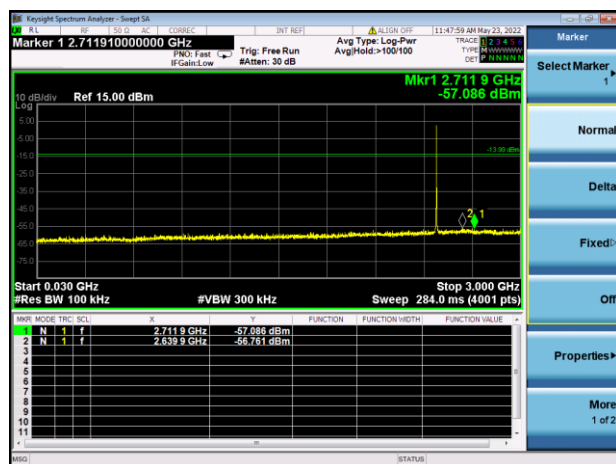
8-DPSK HIGH CHANNEL, CARRIER LEVEL



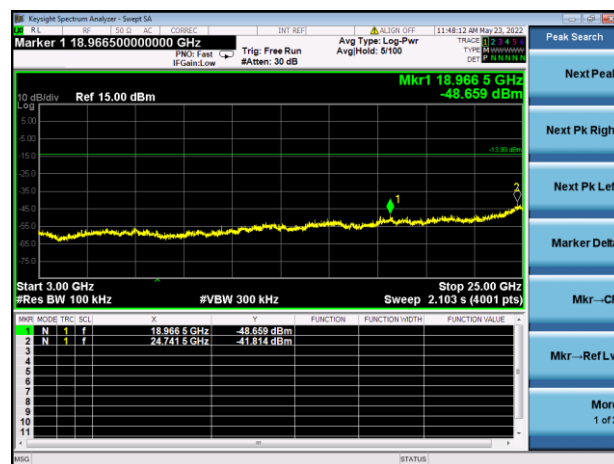
8-DPSK HIGH CHANNEL, BAND EDGE



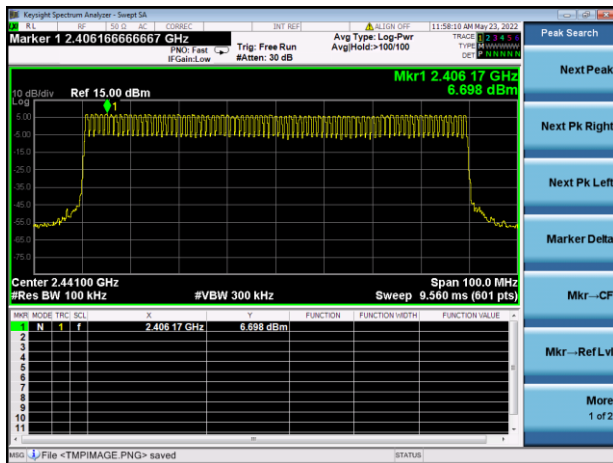
8-DPSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



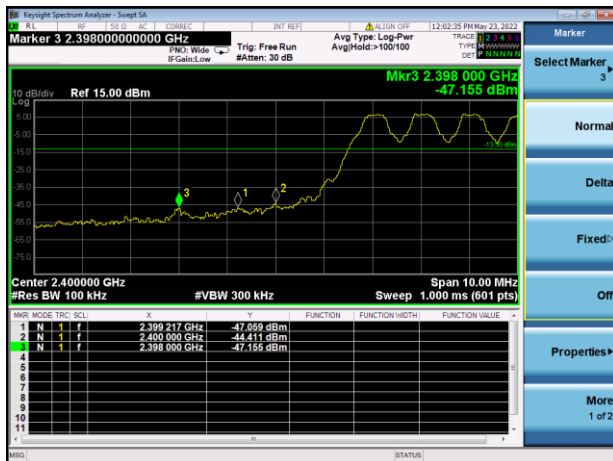
8-DPSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



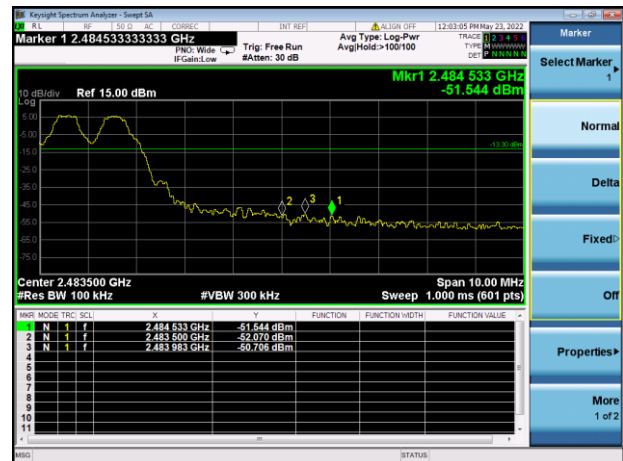
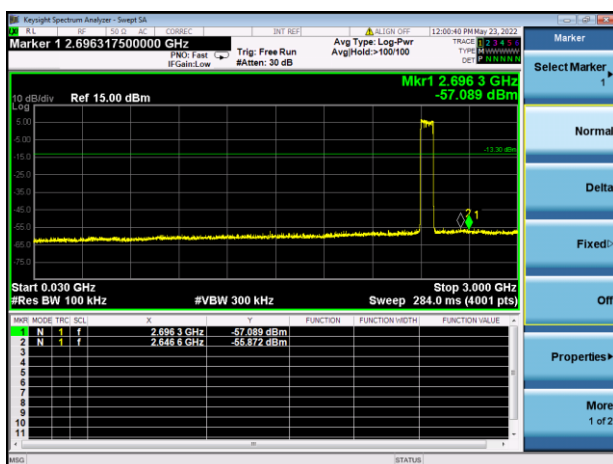
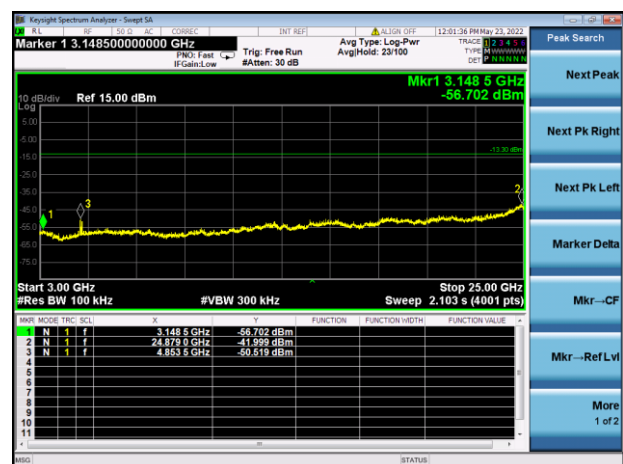
GFSK HOPPING, CARRIER LEVEL



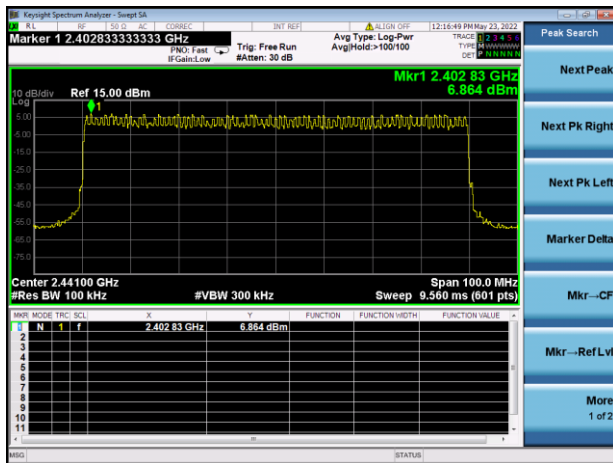
GFSK HOPPING BAND EDGE (LOW)



GFSK HOPPING BAND EDGE (HIGH)

GFSK Hopping Mode, SPURIOUS
30 MHz ~ 3 GHzGFSK Hopping Mode, SPURIOUS
3GHz ~ 25 GHz

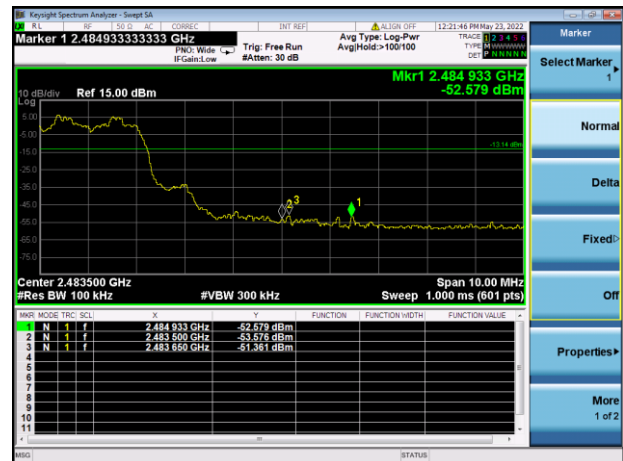
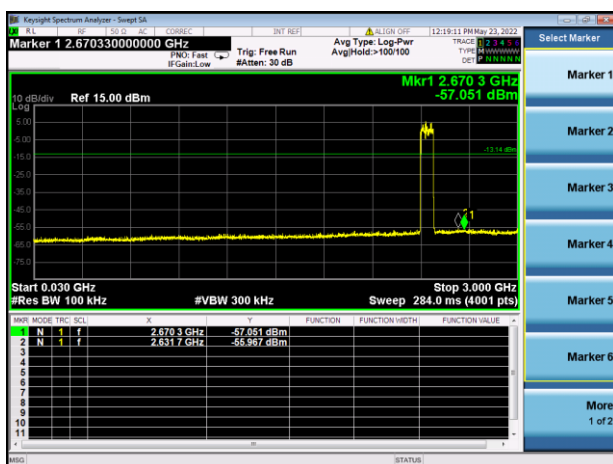
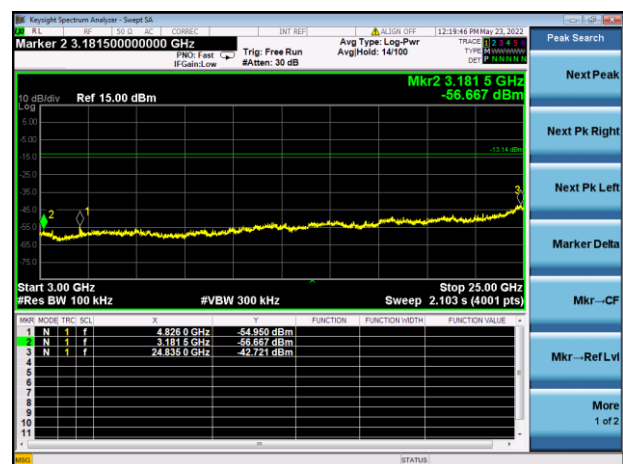
8-DPSK HOPPING, CARRIER LEVEL



8-DPSK Hopping BAND EDGE (LOW)



8-DPSK Hopping BAND EDGE (HIGH)

8-DPSK Hopping Mode, SPURIOUS
30 MHz ~ 3 GHz8-DPSK Hopping Mode, SPURIOUS
3GHz ~ 25 GHz

A.7 Conducted Emissions

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

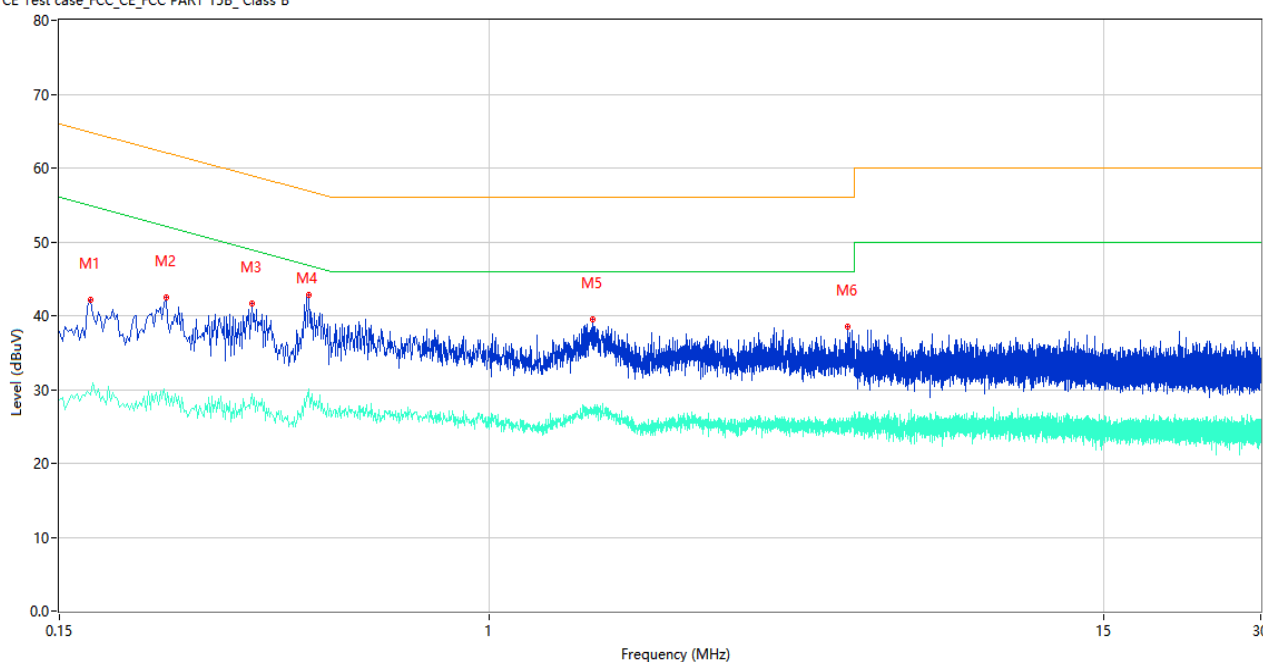
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

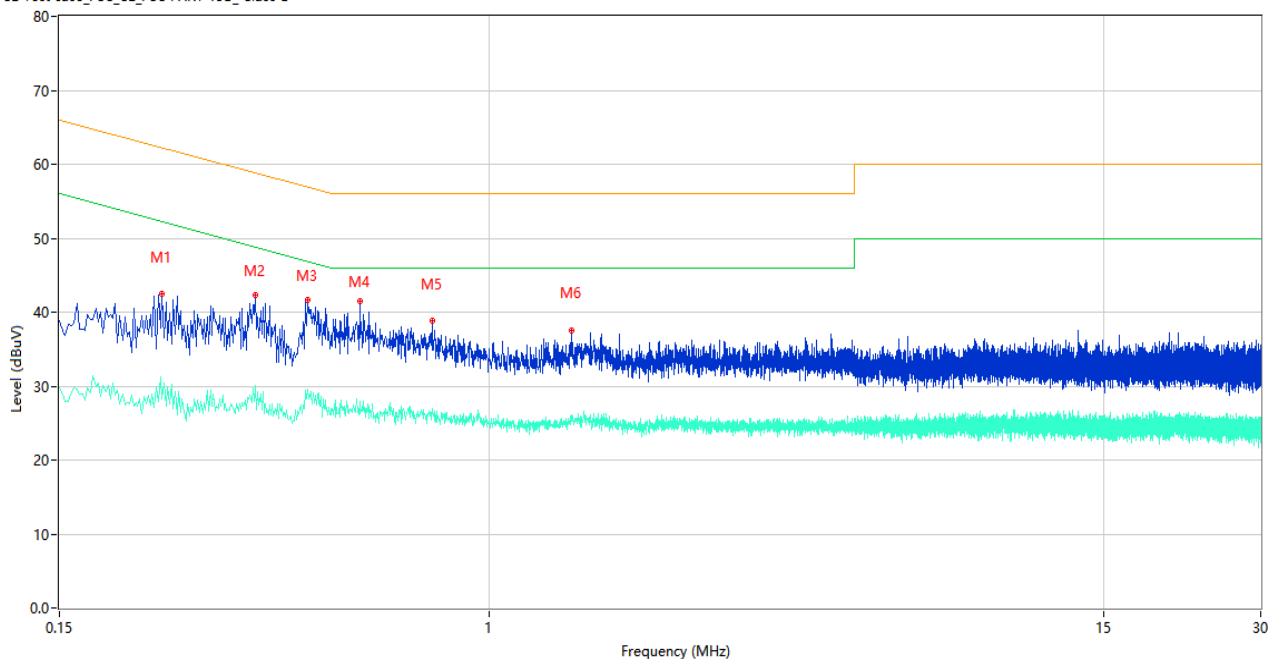
CE Test case_FCC_CE_FCC PART 15B_ Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.172	42.23	10.98	64.86	-22.63	Peak	L	Pass
1**	0.172	29.24	10.98	54.86	-25.62	AV	L	Pass
2	0.240	42.41	10.93	62.10	-19.69	Peak	L	Pass
2**	0.240	27.96	10.93	52.10	-24.14	AV	L	Pass
3	0.350	41.60	10.89	58.96	-17.36	Peak	L	Pass
3**	0.350	29.40	10.89	48.96	-19.56	AV	L	Pass
4	0.450	42.73	10.91	56.88	-14.15	Peak	L	Pass
4**	0.450	30.08	10.91	46.88	-16.80	AV	L	Pass
5	1.574	39.52	10.73	56.00	-16.48	Peak	L	Pass
5**	1.574	27.35	10.73	46.00	-18.65	AV	L	Pass
6	4.850	38.51	10.69	56.00	-17.49	Peak	L	Pass
6**	4.850	25.28	10.69	46.00	-20.72	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	0.236	42.41	10.93	62.24	-19.83	Peak	N	Pass
1**	0.236	28.28	10.93	52.24	-23.96	AV	N	Pass
2	0.356	42.30	10.89	58.82	-16.52	Peak	N	Pass
2**	0.356	30.03	10.89	48.82	-18.79	AV	N	Pass
3	0.448	41.61	10.91	56.91	-15.30	Peak	N	Pass
3**	0.448	29.51	10.91	46.91	-17.40	AV	N	Pass
4	0.564	41.45	10.89	56.00	-14.55	Peak	N	Pass
4**	0.564	27.90	10.89	46.00	-18.10	AV	N	Pass
5	0.776	38.82	10.80	56.00	-17.18	Peak	N	Pass
5**	0.776	27.02	10.80	46.00	-18.98	AV	N	Pass
6	1.434	37.54	10.72	56.00	-18.46	Peak	N	Pass
6**	1.434	25.46	10.72	46.00	-20.54	AV	N	Pass

A.8 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 C63.10-2013, 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.

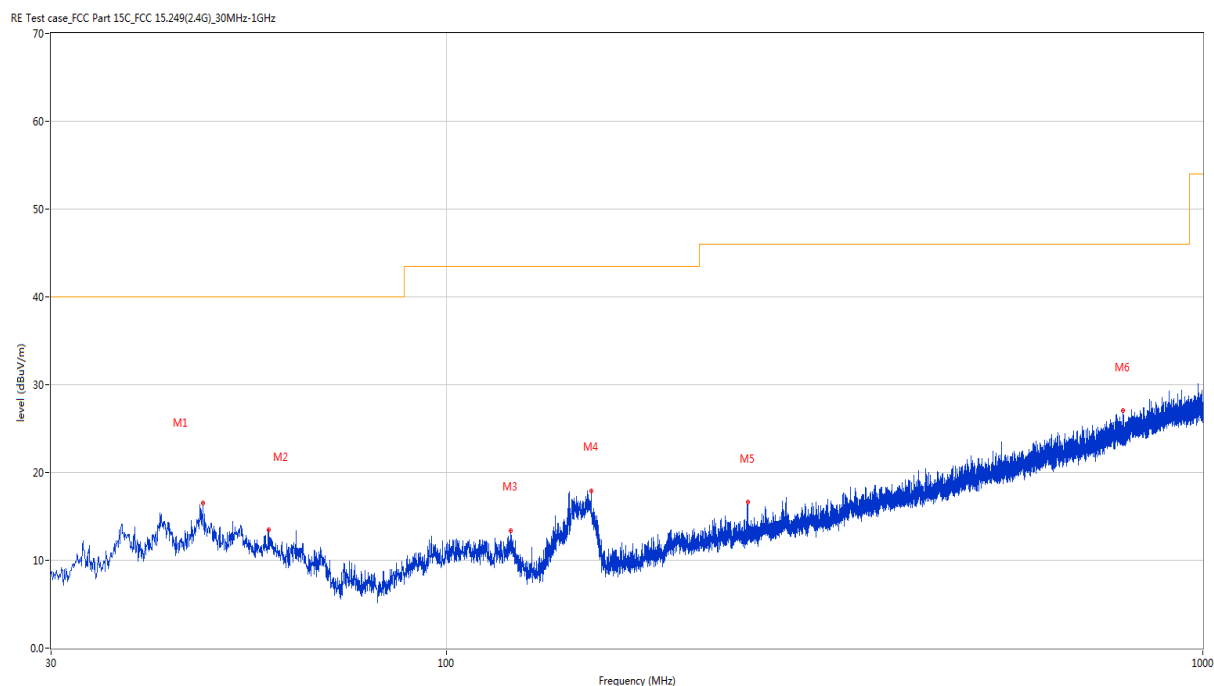
Note ³: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and DH5-Hopping mode is the worst.

Note ⁴: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

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.

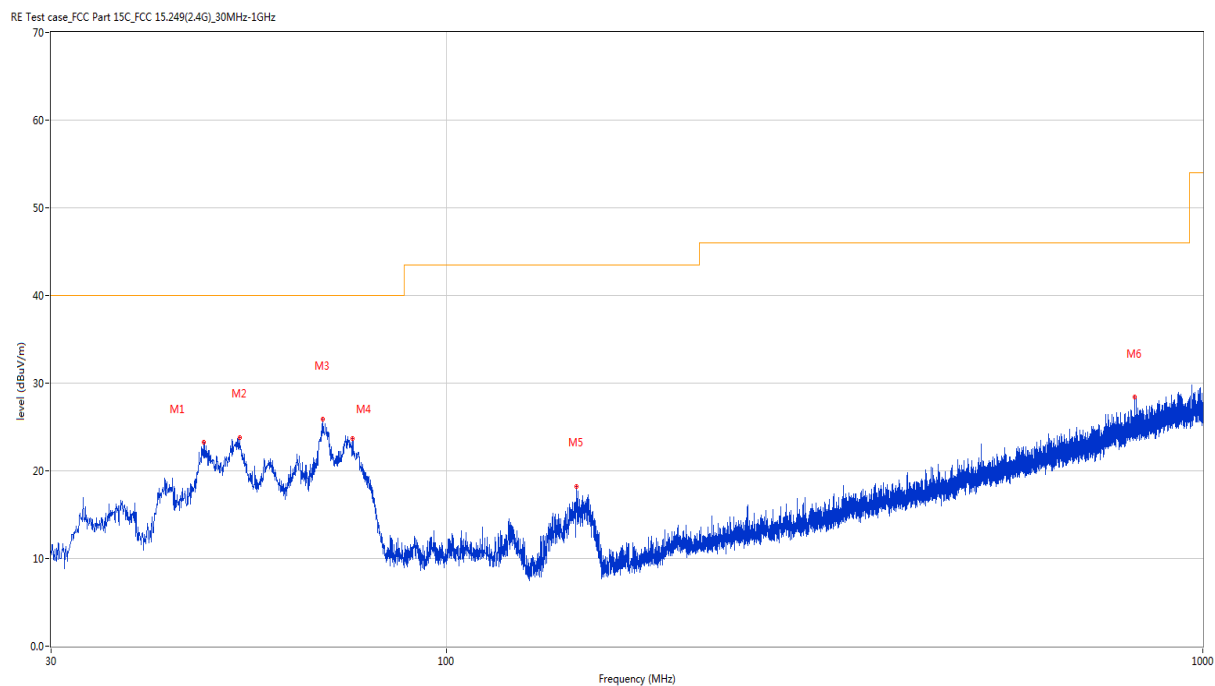
Test Data and Plots

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	47.605	16.57	-22.74	40.0	-23.43	Peak	360.00	200	Horizontal	Pass
2	58.178	13.43	-24.10	40.0	-26.57	Peak	360.00	200	Horizontal	Pass
3	121.520	13.42	-25.83	43.5	-30.08	Peak	360.00	200	Horizontal	Pass
4	155.227	17.88	-27.34	43.5	-25.62	Peak	197.70	200	Horizontal	Pass
5	250.044	16.66	-22.91	46.0	-29.34	Peak	360.00	200	Horizontal	Pass
6	784.078	27.01	-12.04	46.0	-18.99	Peak	360.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V



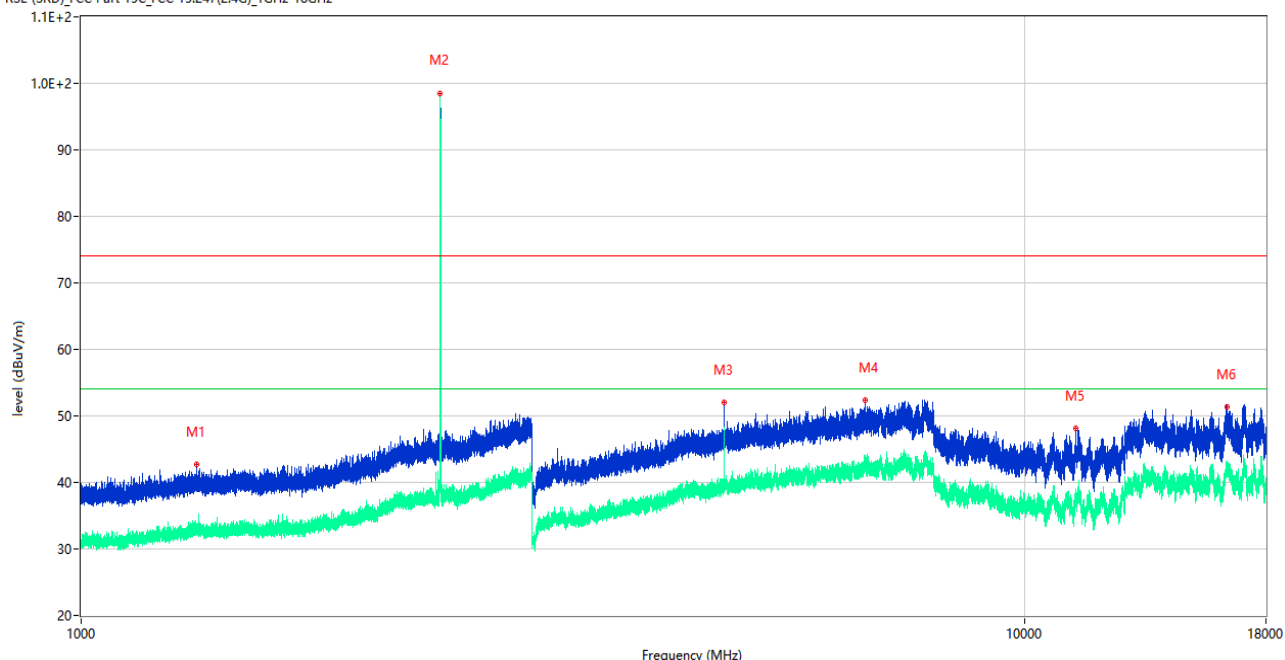
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	47.703	23.24	-22.71	40.0	-16.76	Peak	176.00	100	Vertical	Pass
2	53.280	23.82	-22.95	40.0	-16.18	Peak	35.80	100	Vertical	Pass
3	68.606	25.91	-26.21	40.0	-14.09	Peak	324.80	100	Vertical	Pass
4	75.154	23.74	-28.55	40.0	-16.26	Peak	30.50	100	Vertical	Pass
5	148.583	18.17	-28.06	43.5	-25.33	Peak	123.70	100	Vertical	Pass
6	812.596	28.38	-11.12	46.0	-17.62	Peak	176.00	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.

GFSK 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	1325.800	42.67	-17.39	74.0	-31.33	Peak	305.00	150	Horizontal	Pass
1**	1325.800	32.32	-17.39	54.0	-21.68	AV	305.00	150	Horizontal	Pass
2	2401.900	98.45	-13.34	74.0	24.45	Peak	276.00	150	Horizontal	N/A
2**	2401.900	97.70	-13.34	54.0	43.70	AV	276.00	150	Horizontal	N/A
3	4804.250	51.99	-4.10	74.0	-22.01	Peak	100.00	150	Horizontal	Pass
3**	4804.250	47.15	-4.10	54.0	-6.85	AV	100.00	150	Horizontal	Pass
4	6768.000	52.35	-0.17	74.0	-21.65	Peak	322.00	150	Horizontal	Pass
4**	6768.000	43.97	-0.17	54.0	-10.03	AV	322.00	150	Horizontal	Pass
5	11312.888	48.06	-4.13	74.0	-25.94	Peak	109.00	150	Horizontal	Pass
5**	11312.888	36.87	-4.13	54.0	-17.13	AV	109.00	150	Horizontal	Pass
6	16382.474	51.30	0.11	74.0	-22.70	Peak	77.00	150	Horizontal	Pass
6**	16382.474	42.06	0.11	54.0	-11.94	AV	77.00	150	Horizontal	Pass

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

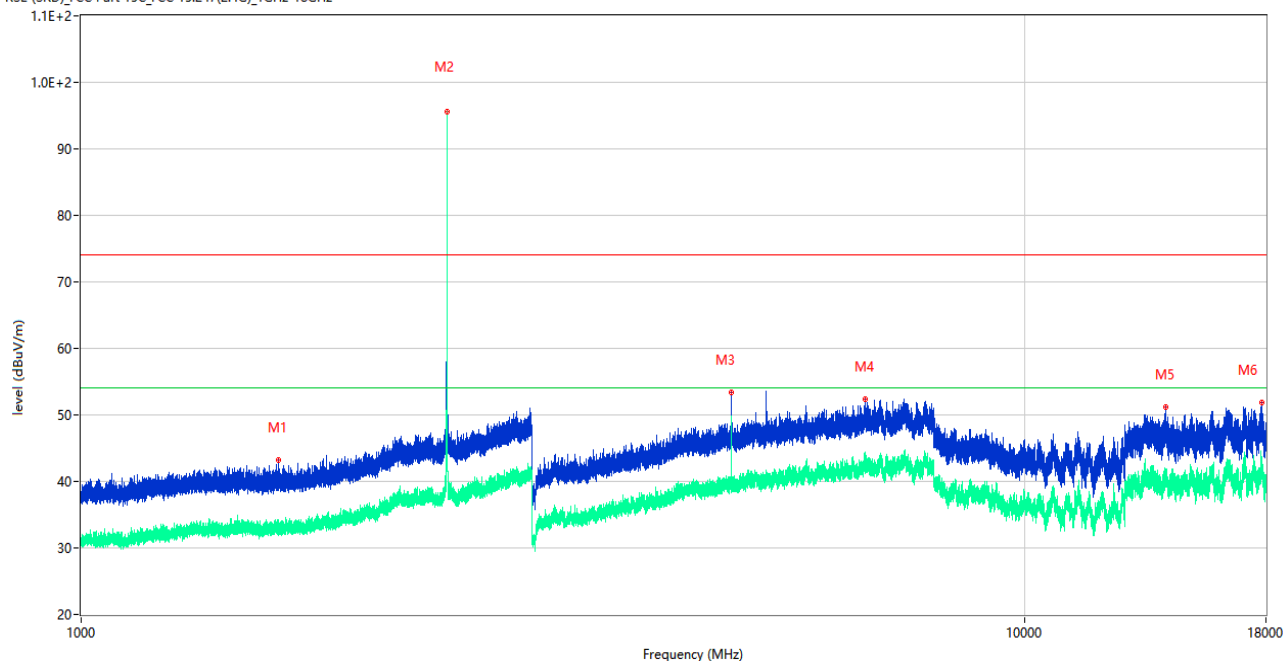
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.800	45.40	-17.15	74.0	-28.60	Peak	217.00	150	Vertical	Pass
1**	1328.800	32.94	-17.15	54.0	-21.06	AV	217.00	150	Vertical	Pass
2	2401.900	92.75	-13.34	74.0	18.75	Peak	94.00	150	Vertical	N/A
2**	2401.900	91.70	-13.34	54.0	37.70	AV	94.00	150	Vertical	N/A
3	4804.000	49.30	-4.13	74.0	-24.70	Peak	129.00	150	Vertical	Pass
3**	4804.000	42.58	-4.13	54.0	-11.42	AV	129.00	150	Vertical	Pass
4	6762.250	53.27	-0.72	74.0	-20.73	Peak	44.00	150	Vertical	Pass
4**	6762.250	42.88	-0.72	54.0	-11.12	AV	44.00	150	Vertical	Pass
5	13676.888	51.51	0.31	74.0	-22.49	Peak	332.00	150	Vertical	Pass
5**	13676.888	40.54	0.31	54.0	-13.46	AV	332.00	150	Vertical	Pass
6	17801.812	51.88	3.21	74.0	-22.12	Peak	350.00	150	Vertical	Pass
6**	17801.812	41.43	3.21	54.0	-12.57	AV	350.00	150	Vertical	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

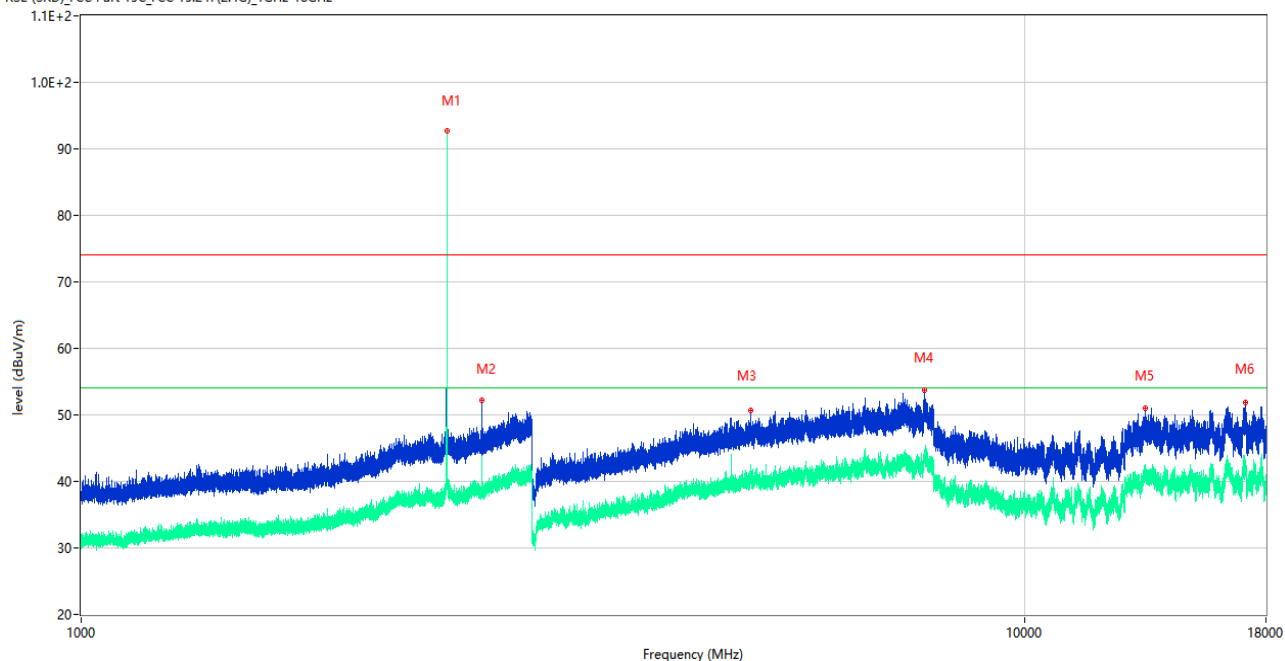
RSE (SRD), FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1617.200	43.14	-17.26	74.0	-30.86	Peak	238.00	150	Horizontal	Pass
1**	1617.200	33.55	-17.26	54.0	-20.45	AV	238.00	150	Horizontal	Pass
2	2441.200	95.82	-12.29	74.0	21.82	Peak	260.00	150	Horizontal	N/A
2**	2441.200	95.62	-12.29	54.0	41.62	AV	260.00	150	Horizontal	N/A
3	4881.500	53.40	-3.62	74.0	-20.60	Peak	107.00	150	Horizontal	Pass
3**	4881.500	48.82	-3.62	54.0	-5.18	AV	107.00	150	Horizontal	Pass
4	6772.750	52.39	-0.71	74.0	-21.61	Peak	299.00	150	Horizontal	Pass
4**	6772.750	42.99	-0.71	54.0	-11.01	AV	299.00	150	Horizontal	Pass
5	14085.599	51.12	-0.23	74.0	-22.88	Peak	360.00	150	Horizontal	Pass
5**	14085.599	39.78	-0.23	54.0	-14.22	AV	360.00	150	Horizontal	Pass
6	17817.037	51.83	3.08	74.0	-22.17	Peak	349.00	150	Horizontal	Pass
6**	17817.037	41.13	3.08	54.0	-12.87	AV	349.00	150	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

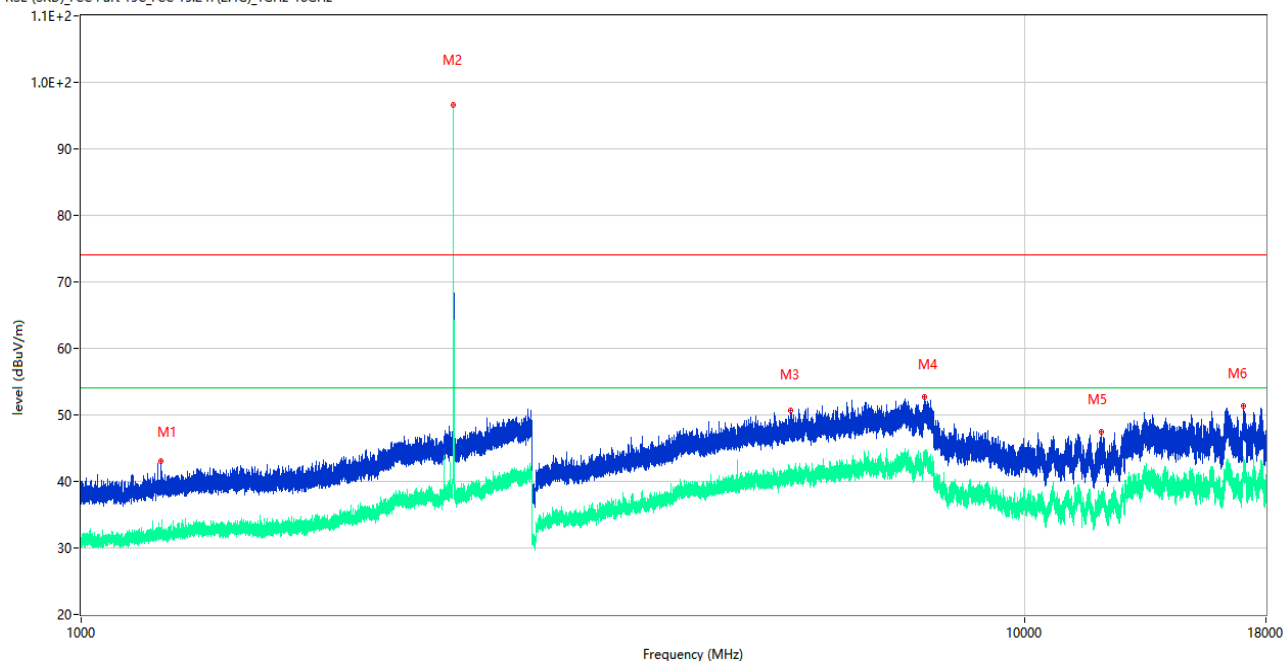
RSE (SRD), FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2441.200	93.05	-12.29	74.0	19.05	Peak	101.00	150	Vertical	N/A
1**	2441.200	92.50	-12.29	54.0	38.50	AV	101.00	150	Vertical	N/A
2	2655.100	52.22	-12.49	74.0	-21.78	Peak	255.00	150	Vertical	Pass
2**	2655.100	38.74	-12.49	54.0	-15.26	AV	255.00	150	Vertical	Pass
3	5122.250	50.62	-3.00	74.0	-23.38	Peak	119.00	150	Vertical	Pass
3**	5122.250	41.00	-3.00	54.0	-13.00	AV	119.00	150	Vertical	Pass
4	7817.750	53.73	1.66	74.0	-20.27	Peak	172.00	150	Vertical	Pass
4**	7817.750	44.45	1.66	54.0	-9.55	AV	172.00	150	Vertical	Pass
5	13408.874	51.00	-0.04	74.0	-23.00	Peak	322.00	150	Vertical	Pass
5**	13408.874	39.95	-0.04	54.0	-14.05	AV	322.00	150	Vertical	Pass
6	17116.162	51.91	1.41	74.0	-22.09	Peak	104.00	150	Vertical	Pass
6**	17116.162	41.29	1.41	54.0	-12.71	AV	104.00	150	Vertical	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

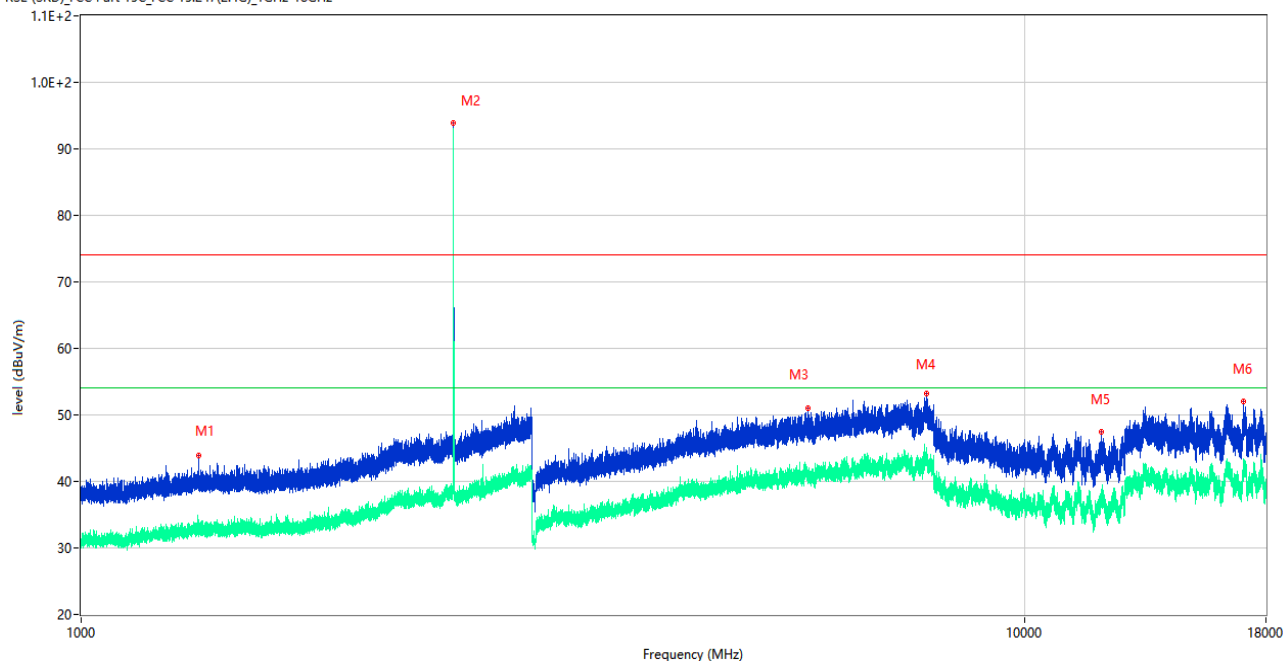
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1214.200	43.08	-17.72	74.0	-30.92	Peak	80.00	150	Horizontal	Pass
1**	1214.200	31.84	-17.72	54.0	-22.16	AV	80.00	150	Horizontal	Pass
2	2480.000	96.82	-13.08	74.0	22.82	Peak	271.00	150	Horizontal	N/A
2**	2480.000	96.57	-13.08	54.0	42.57	AV	271.00	150	Horizontal	N/A
3	5646.750	50.60	-2.69	74.0	-23.40	Peak	343.00	150	Horizontal	Pass
3**	5646.750	40.43	-2.69	54.0	-13.57	AV	343.00	150	Horizontal	Pass
4	7831.750	52.76	2.14	74.0	-21.24	Peak	224.00	150	Horizontal	Pass
4**	7831.750	43.69	2.14	54.0	-10.31	AV	224.00	150	Horizontal	Pass
5	12053.175	47.44	-3.35	74.0	-26.56	Peak	249.00	150	Horizontal	Pass
5**	12053.175	37.45	-3.35	54.0	-16.55	AV	249.00	150	Horizontal	Pass
6	17026.387	51.33	0.74	74.0	-22.67	Peak	351.00	150	Horizontal	Pass
6**	17026.387	42.35	0.74	54.0	-11.65	AV	351.00	150	Horizontal	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

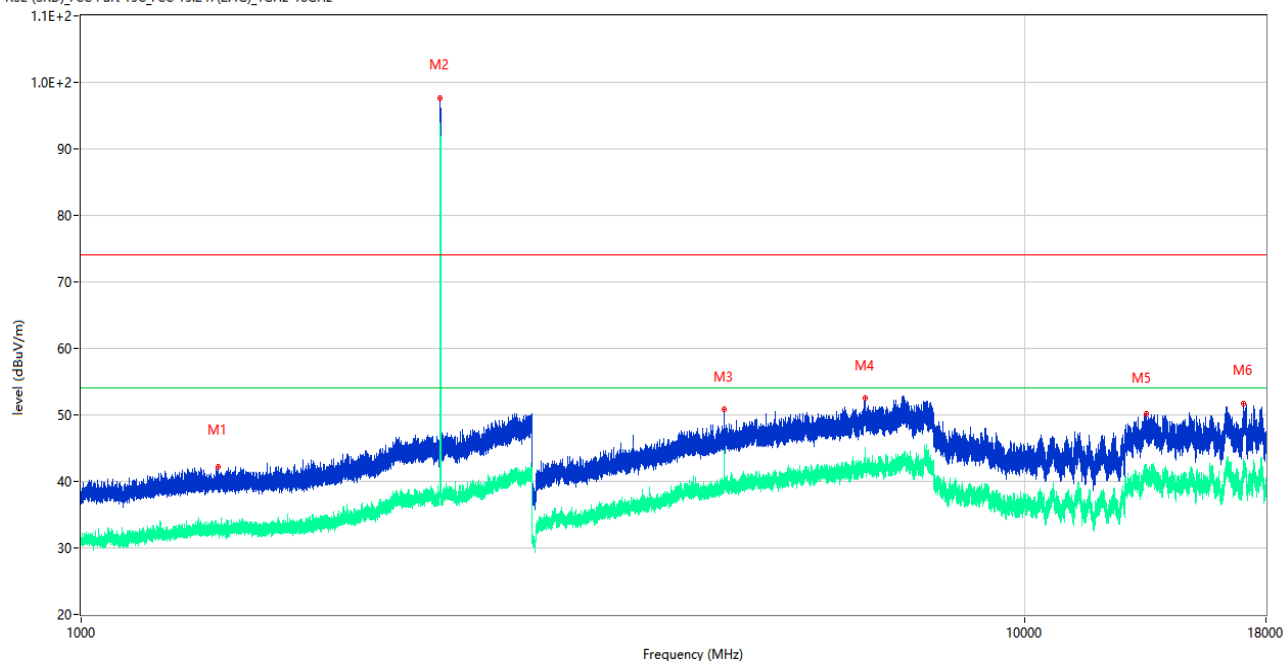
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.000	43.98	-17.43	74.0	-30.02	Peak	209.00	150	Vertical	Pass
1**	1331.000	33.17	-17.43	54.0	-20.83	AV	209.00	150	Vertical	Pass
2	2479.900	93.84	-13.07	74.0	19.84	Peak	107.00	150	Vertical	N/A
2**	2479.900	92.76	-13.07	54.0	38.76	AV	107.00	150	Vertical	N/A
3	5885.000	51.00	-2.52	74.0	-23.00	Peak	216.00	150	Vertical	Pass
3**	5885.000	40.81	-2.52	54.0	-13.19	AV	216.00	150	Vertical	Pass
4	7871.000	53.29	2.06	74.0	-20.71	Peak	290.00	150	Vertical	Pass
4**	7871.000	42.80	2.06	54.0	-11.20	AV	290.00	150	Vertical	Pass
5	12058.162	47.38	-3.39	74.0	-26.62	Peak	23.00	150	Vertical	Pass
5**	12058.162	35.69	-3.39	54.0	-18.31	AV	23.00	150	Vertical	Pass
6	17059.199	52.02	0.99	74.0	-21.98	Peak	338.00	150	Vertical	Pass
6**	17059.199	42.97	0.99	54.0	-11.03	AV	338.00	150	Vertical	Pass

8-DPSK LOW CHANNEL 1 GHz to 18 GHz, ANT H

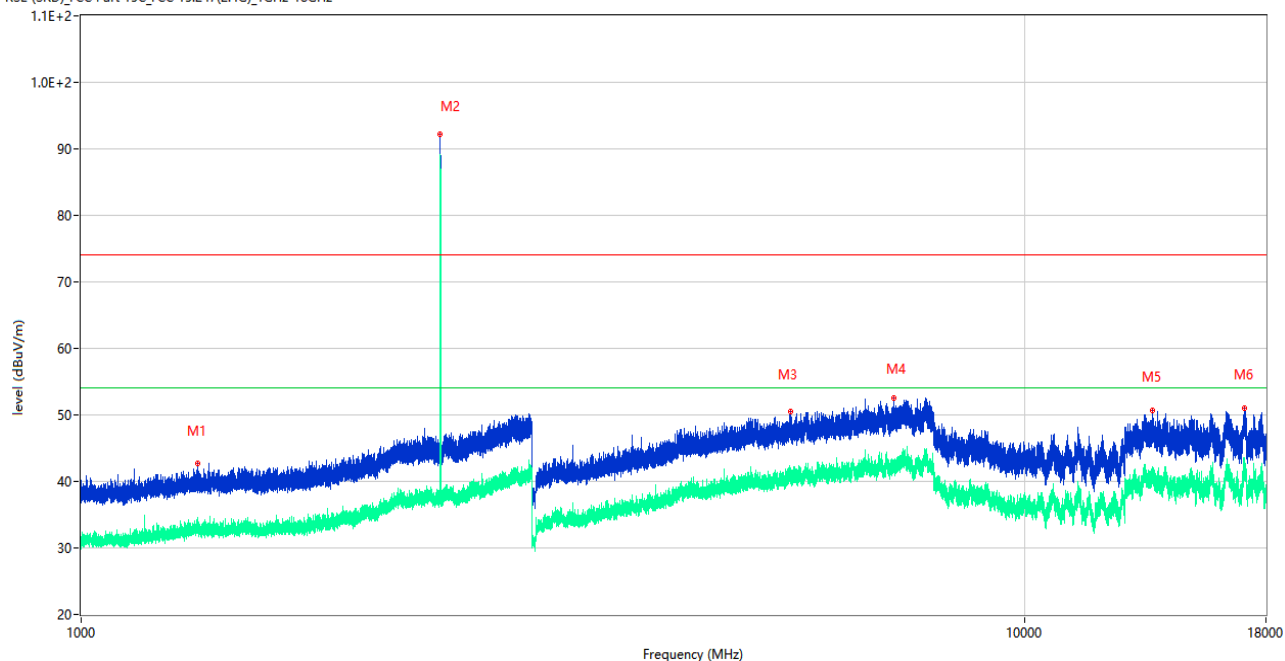
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1395.800	42.26	-17.52	74.0	-31.74	Peak	204.00	150	Horizontal	Pass
1**	1395.800	33.70	-17.52	54.0	-20.30	AV	204.00	150	Horizontal	Pass
2	2402.400	97.63	-13.32	74.0	23.63	Peak	1.00	150	Horizontal	N/A
2**	2402.400	93.69	-13.32	54.0	39.69	AV	1.00	150	Horizontal	N/A
3	4804.500	50.78	-4.08	74.0	-23.22	Peak	97.00	150	Horizontal	Pass
3**	4804.500	44.77	-4.08	54.0	-9.23	AV	97.00	150	Horizontal	Pass
4	6767.750	52.51	-0.21	74.0	-21.49	Peak	48.00	150	Horizontal	Pass
4**	6767.750	45.07	-0.21	54.0	-8.93	AV	48.00	150	Horizontal	Pass
5	13430.662	50.19	0.08	74.0	-23.81	Peak	14.00	150	Horizontal	Pass
5**	13430.662	40.72	0.08	54.0	-13.28	AV	14.00	150	Horizontal	Pass
6	17043.713	51.61	0.87	74.0	-22.39	Peak	334.00	150	Horizontal	Pass
6**	17043.713	42.28	0.87	54.0	-11.72	AV	334.00	150	Horizontal	Pass

8-DPSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

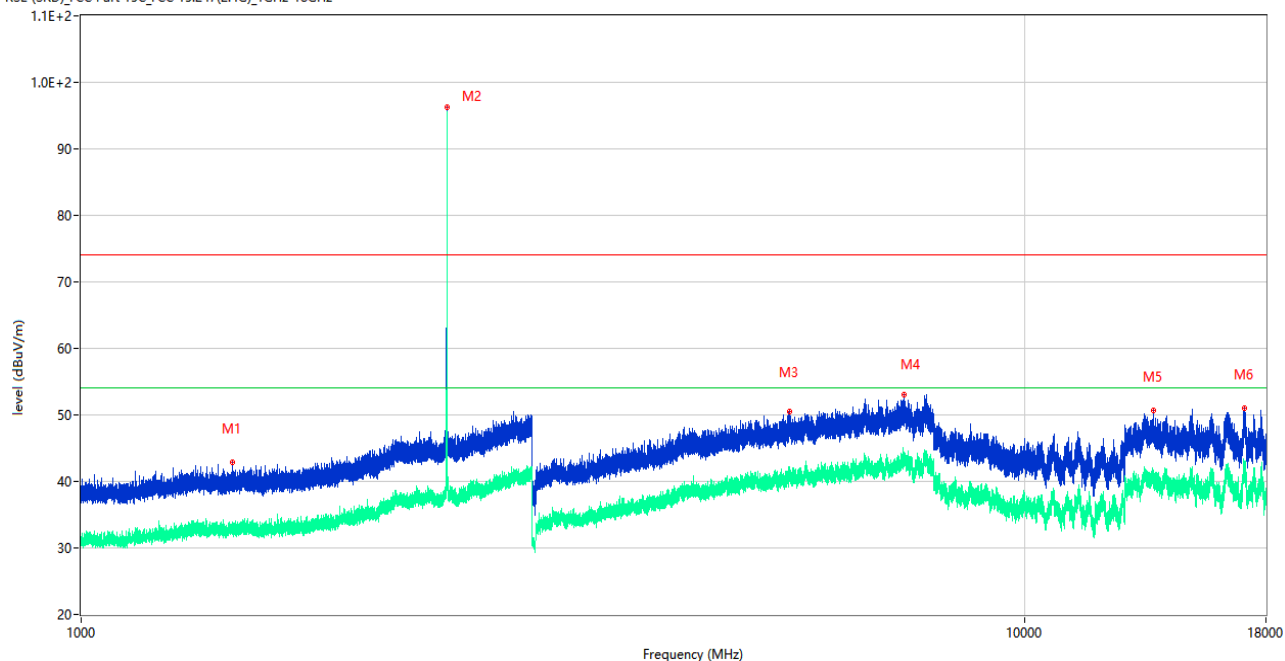
RSE (SRD), FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.400	42.67	-17.23	74.0	-31.33	Peak	53.00	150	Vertical	Pass
1**	1329.400	32.99	-17.23	54.0	-21.01	AV	53.00	150	Vertical	Pass
2	2402.100	92.25	-13.33	74.0	18.25	Peak	103.00	150	Vertical	N/A
2**	2402.100	88.77	-13.33	54.0	34.77	AV	103.00	150	Vertical	N/A
3	5650.250	50.57	-2.57	74.0	-23.43	Peak	251.00	150	Vertical	Pass
3**	5650.250	41.89	-2.57	54.0	-12.11	AV	251.00	150	Vertical	Pass
4	7260.000	52.59	-0.15	74.0	-21.41	Peak	173.00	150	Vertical	Pass
4**	7260.000	42.11	-0.15	54.0	-11.89	AV	173.00	150	Vertical	Pass
5	13654.575	50.67	0.30	74.0	-23.33	Peak	297.00	150	Vertical	Pass
5**	13654.575	40.65	0.30	54.0	-13.35	AV	297.00	150	Vertical	Pass
6	17067.338	51.09	1.06	74.0	-22.91	Peak	312.00	150	Vertical	Pass
6**	17067.338	41.58	1.06	54.0	-12.42	AV	312.00	150	Vertical	Passq

8-DPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

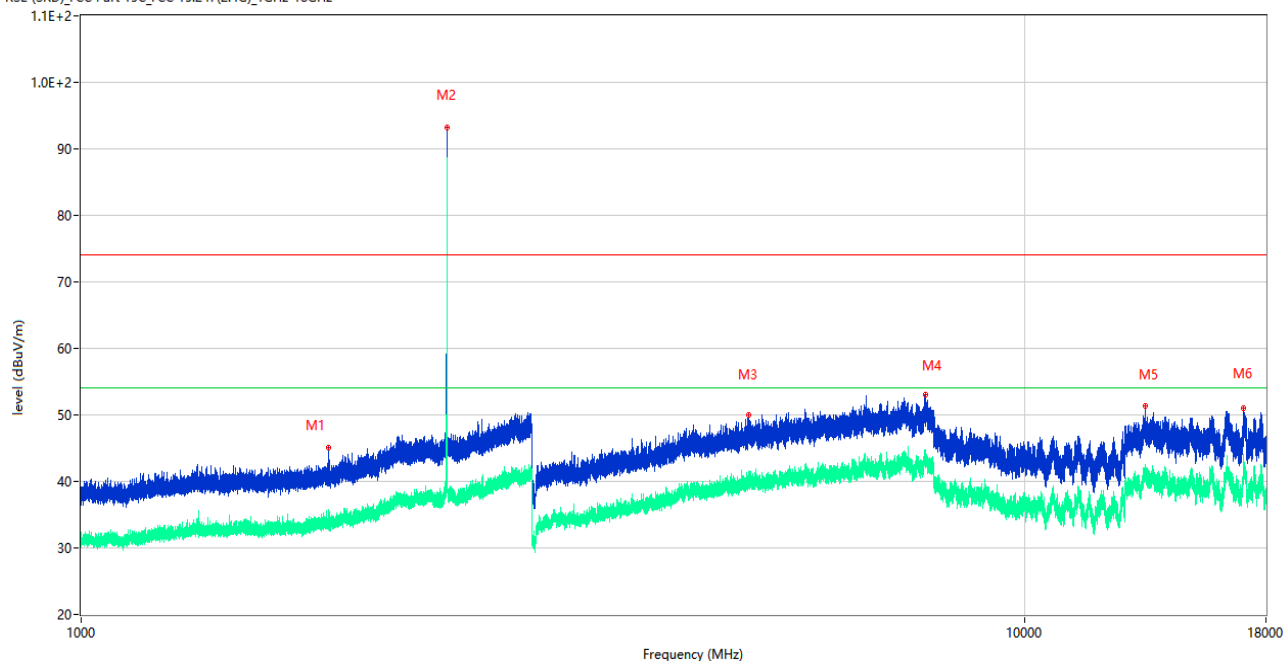
RSE (SRD), FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1445.500	42.90	-17.46	74.0	-31.10	Peak	186.00	150	Horizontal	Pass
1**	1445.500	32.68	-17.46	54.0	-21.32	AV	186.00	150	Horizontal	Pass
2	2440.900	96.22	-12.31	74.0	22.22	Peak	355.00	150	Horizontal	N/A
2**	2440.900	92.22	-12.31	54.0	38.22	AV	355.00	150	Horizontal	N/A
3	5626.500	50.46	-2.32	74.0	-23.54	Peak	202.00	150	Horizontal	Pass
3**	5626.500	41.33	-2.32	54.0	-12.67	AV	202.00	150	Horizontal	Pass
4	7441.000	53.04	0.36	74.0	-20.96	Peak	316.00	150	Horizontal	Pass
4**	7441.000	43.91	0.36	54.0	-10.09	AV	316.00	150	Horizontal	Pass
5	13681.350	50.63	0.31	74.0	-23.37	Peak	110.00	150	Horizontal	Pass
5**	13681.350	40.01	0.31	54.0	-13.99	AV	110.00	150	Horizontal	Pass
6	17063.136	51.07	1.02	74.0	-22.93	Peak	324.00	150	Horizontal	Pass
6**	17063.136	41.59	1.02	54.0	-12.41	AV	324.00	150	Horizontal	Pass

8-DPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

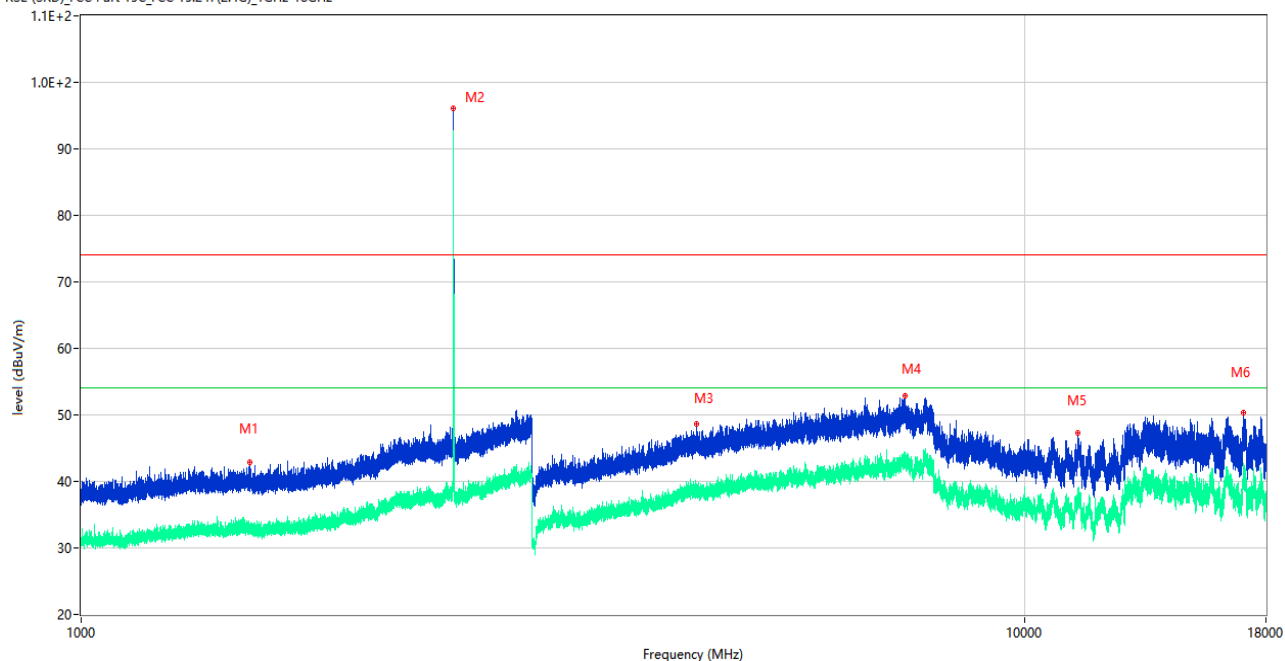
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1830.800	45.07	-17.18	74.0	-28.93	Peak	233.00	150	Vertical	Pass
1**	1830.800	33.34	-17.18	54.0	-20.66	AV	233.00	150	Vertical	Pass
2	2441.000	93.16	-12.31	74.0	19.16	Peak	106.00	150	Vertical	N/A
2**	2441.000	88.53	-12.31	54.0	34.53	AV	106.00	150	Vertical	N/A
3	5097.000	50.06	-2.91	74.0	-23.94	Peak	46.00	150	Vertical	Pass
3**	5097.000	41.60	-2.91	54.0	-12.40	AV	46.00	150	Vertical	Pass
4	7844.500	53.00	1.43	74.0	-21.00	Peak	324.00	150	Vertical	Pass
4**	7844.500	44.05	1.43	54.0	-9.95	AV	324.00	150	Vertical	Pass
5	13423.050	51.37	0.04	74.0	-22.63	Peak	353.00	150	Vertical	Pass
5**	13423.050	40.85	0.04	54.0	-13.15	AV	353.00	150	Vertical	Pass
6	17058.676	50.96	0.99	74.0	-23.04	Peak	193.00	150	Vertical	Pass
6**	17058.676	41.61	0.99	54.0	-12.39	AV	193.00	150	Vertical	Pass

8-DPSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

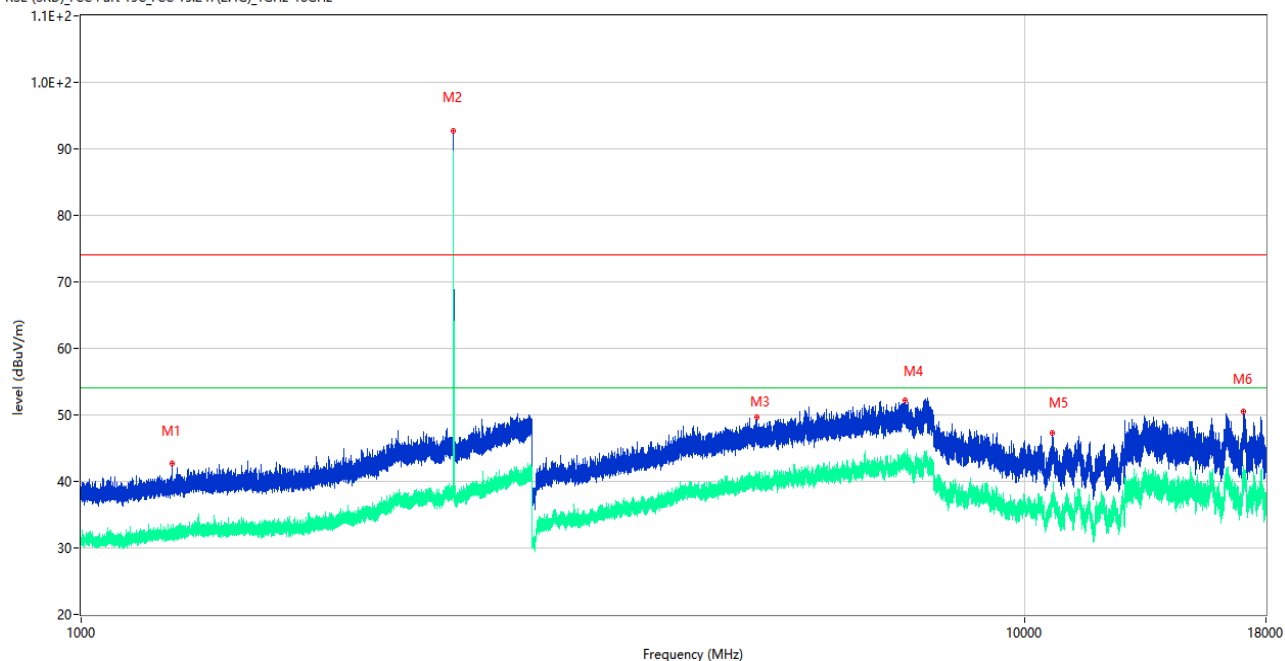
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1510.400	42.88	-17.36	74.0	-31.12	Peak	190.00	150	Horizontal	Pass
1**	1510.400	32.35	-17.36	54.0	-21.65	AV	190.00	150	Horizontal	Pass
2	2480.100	96.15	-13.08	74.0	22.15	Peak	285.00	150	Horizontal	N/A
2**	2480.100	92.37	-13.08	54.0	38.37	AV	285.00	150	Horizontal	N/A
3	4491.500	48.62	-4.10	74.0	-25.38	Peak	178.00	150	Horizontal	Pass
3**	4491.500	38.85	-4.10	54.0	-15.15	AV	178.00	150	Horizontal	Pass
4	7471.250	52.93	0.77	74.0	-21.07	Peak	258.00	150	Horizontal	Pass
4**	7471.250	42.66	0.77	54.0	-11.34	AV	258.00	150	Horizontal	Pass
5	11378.201	47.28	-4.33	74.0	-26.72	Peak	140.00	150	Horizontal	Pass
5**	11378.201	38.34	-4.33	54.0	-15.66	AV	140.00	150	Horizontal	Pass
6	17035.312	50.36	0.81	74.0	-23.64	Peak	361.00	150	Horizontal	Pass
6**	17035.312	40.86	0.81	54.0	-13.14	AV	361.00	150	Horizontal	Pass

8-DPSK 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	1249.800	42.67	-17.91	74.0	-31.33	Peak	91.00	150	Vertical	Pass
1**	1249.800	31.63	-17.91	54.0	-22.37	AV	91.00	150	Vertical	Pass
2	2480.100	92.72	-13.08	74.0	18.72	Peak	178.00	150	Vertical	N/A
2**	2480.100	89.21	-13.08	54.0	35.21	AV	178.00	150	Vertical	N/A
3	5198.250	49.64	-3.30	74.0	-24.36	Peak	307.00	150	Vertical	Pass
3**	5198.250	40.29	-3.30	54.0	-13.71	AV	307.00	150	Vertical	Pass
4	7466.000	52.20	0.83	74.0	-21.80	Peak	317.00	150	Vertical	Pass
4**	7466.000	43.17	0.83	54.0	-10.83	AV	317.00	150	Vertical	Pass
5	10694.200	47.25	-4.79	74.0	-26.75	Peak	273.00	150	Vertical	Pass
5**	10694.200	38.37	-4.79	54.0	-15.63	AV	273.00	150	Vertical	Pass
6	17038.725	50.58	0.83	74.0	-23.42	Peak	339.00	150	Vertical	Pass
6**	17038.725	41.49	0.83	54.0	-12.51	AV	339.00	150	Vertical	Pass

A.9 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.

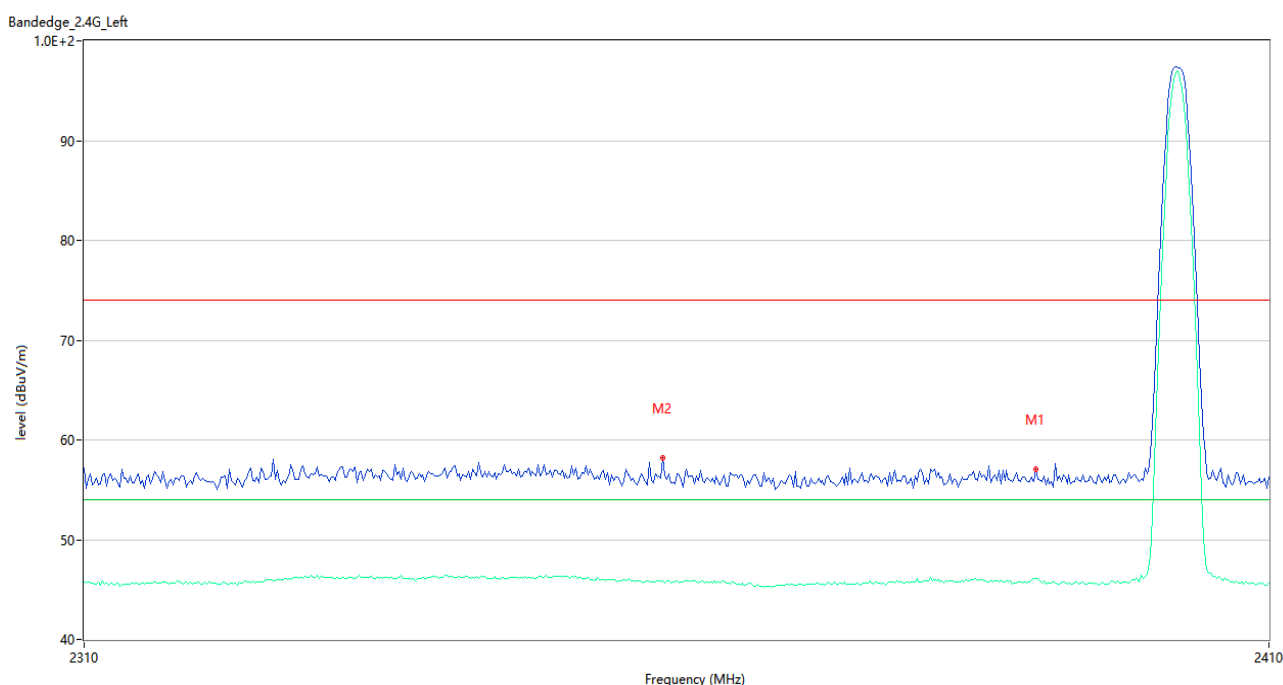
Note ²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

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.

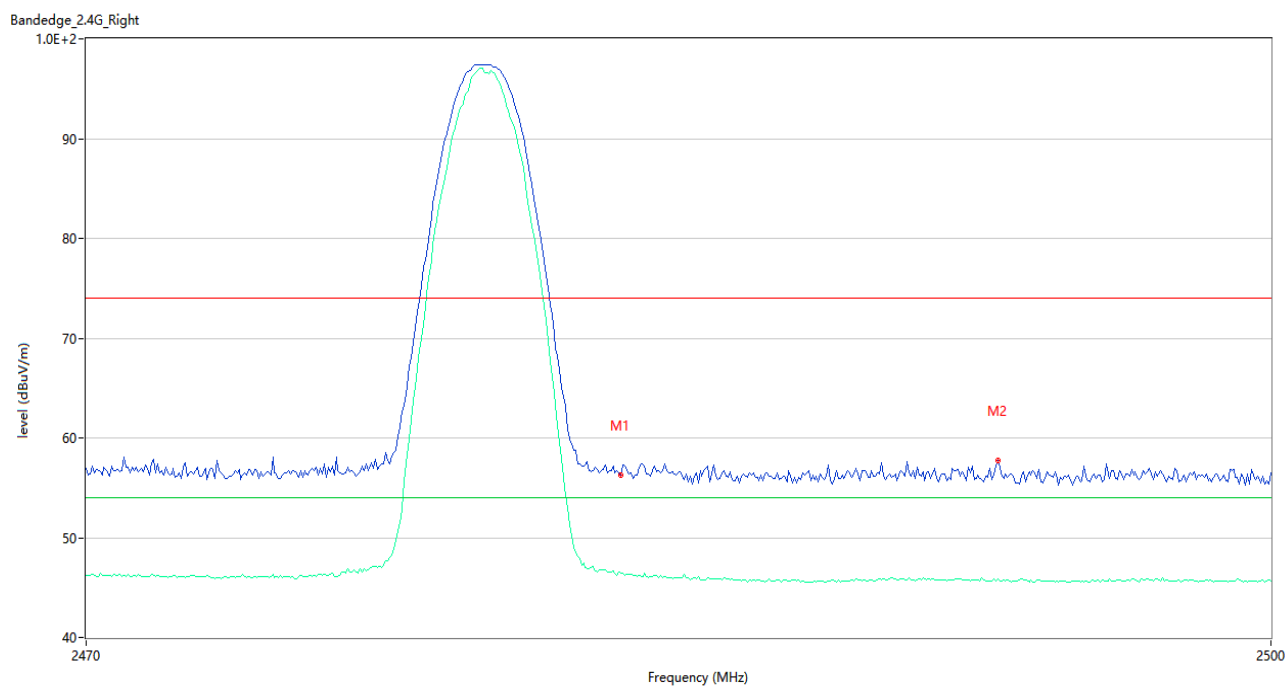
Test Data and Plots

GFSK LOW CHANNEL



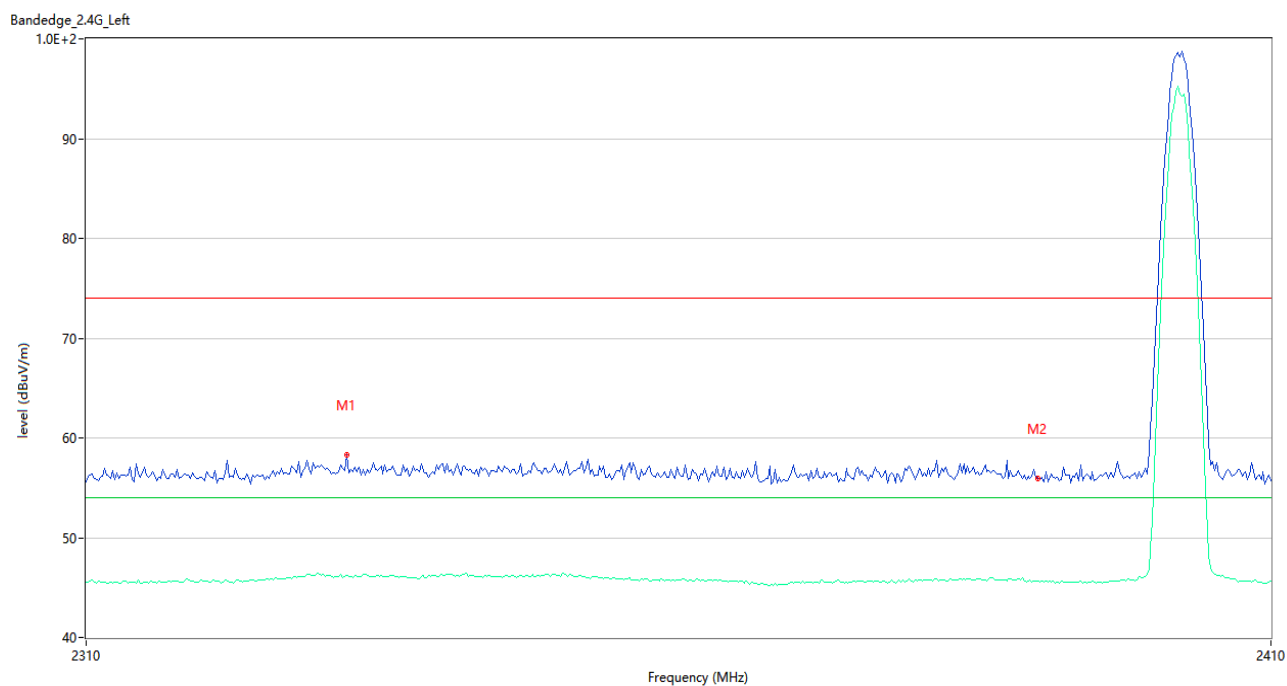
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	57.05	1.62	74.0	-16.95	Peak	4.00	150	Horizontal	Pass
1**	2390.000	46.14	1.62	54.0	-7.86	AV	4.00	150	Horizontal	Pass
2	2358.333	58.19	1.93	74.0	-15.81	Peak	182.00	150	Horizontal	Pass
2**	2358.333	45.86	1.93	54.0	-8.14	AV	182.00	150	Horizontal	Pass

GFSK HIGH CHANNEL



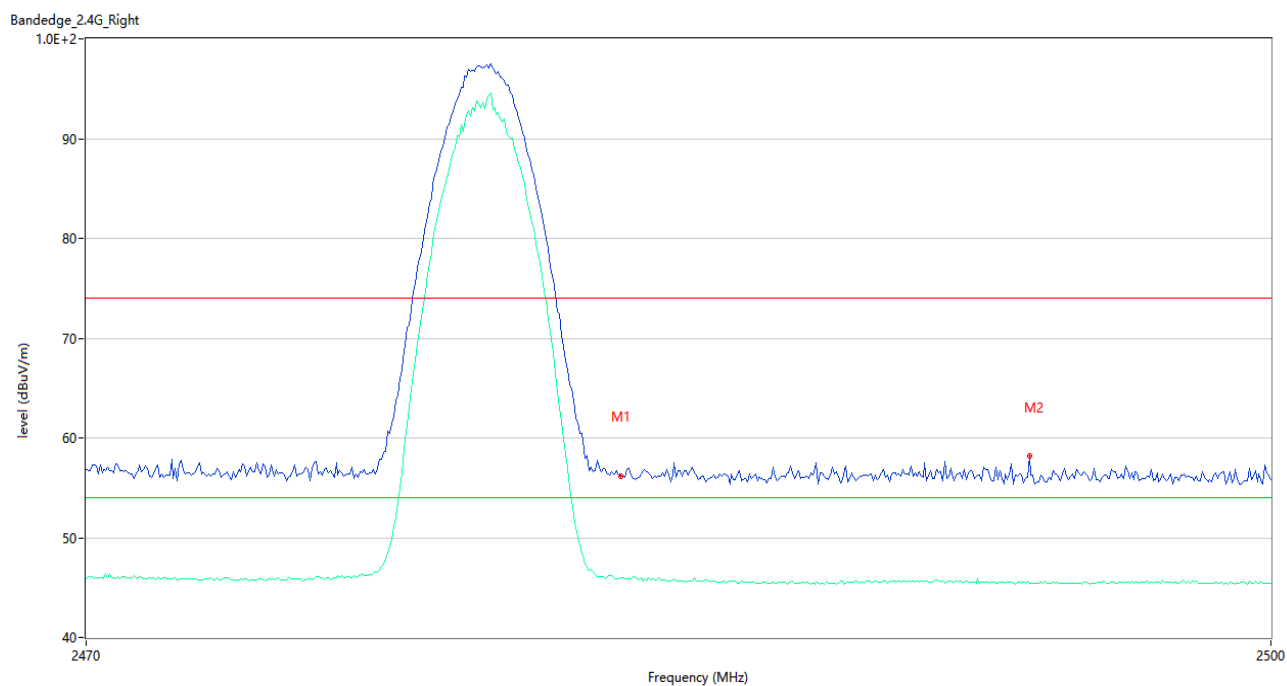
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	56.27	1.98	74.0	-17.73	Peak	26.00	150	Horizontal	Pass
1**	2483.500	46.46	1.98	54.0	-7.54	AV	26.00	150	Horizontal	Pass
2	2493.050	57.76	1.84	74.0	-16.24	Peak	229.00	150	Horizontal	Pass
2**	2493.050	45.85	1.84	54.0	-8.15	AV	229.00	150	Horizontal	Pass

8-DPSK LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2331.667	58.26	2.33	74.0	-15.74	Peak	170.00	150	Horizontal	Pass
1**	2331.667	46.16	2.33	54.0	-7.84	AV	170.00	150	Horizontal	Pass
2	2390.000	55.89	1.62	74.0	-18.11	Peak	261.00	150	Horizontal	Pass
2**	2390.000	45.65	1.62	54.0	-8.35	AV	261.00	150	Horizontal	Pass

8-DPSK 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	56.01	1.98	74.0	-17.99	Peak	100.00	150	Horizontal	Pass
1**	2483.500	45.99	1.98	54.0	-8.01	AV	100.00	150	Horizontal	Pass
2	2493.850	58.14	1.81	74.0	-15.86	Peak	191.00	150	Horizontal	Pass
2**	2493.850	45.41	1.81	54.0	-8.59	AV	191.00	150	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-EC2250477-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-EC2250477-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-EC2250477-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.
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