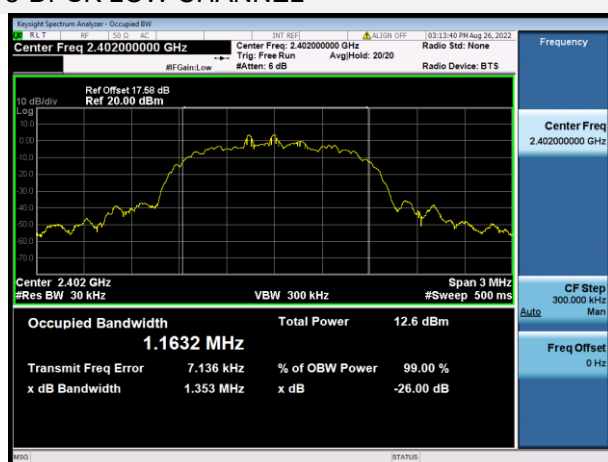


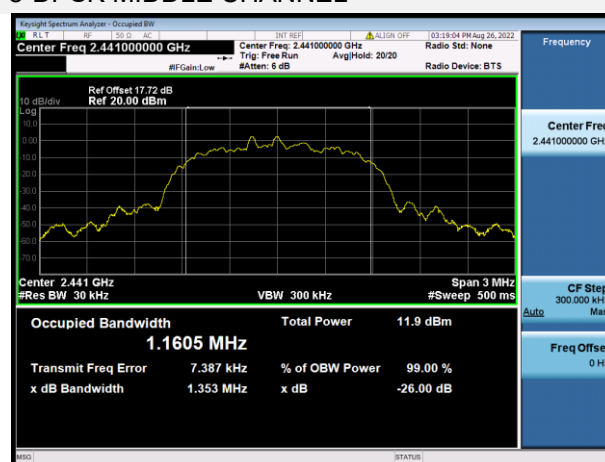
$\pi/4$ -DQPSK HIGH CHANNEL



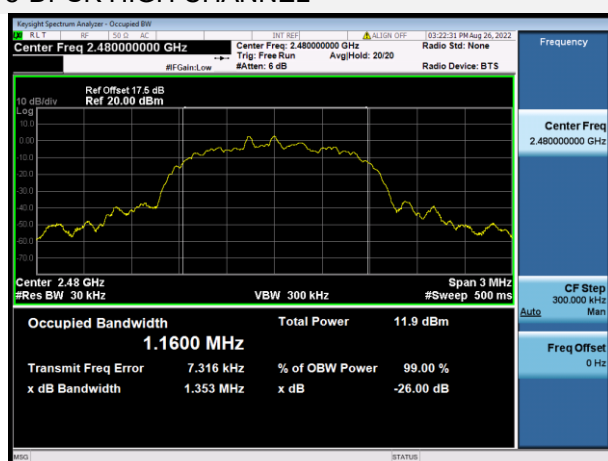
8-DPSK LOW CHANNEL



8-DPSK MIDDLE CHANNEL



8-DPSK HIGH CHANNEL



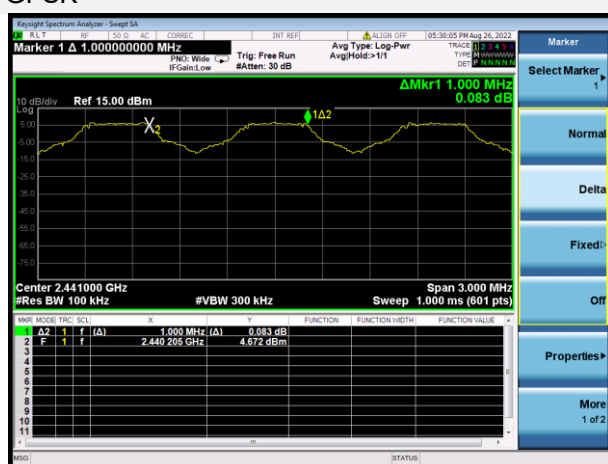
A.4 Hopping Frequency Separation

Test Data

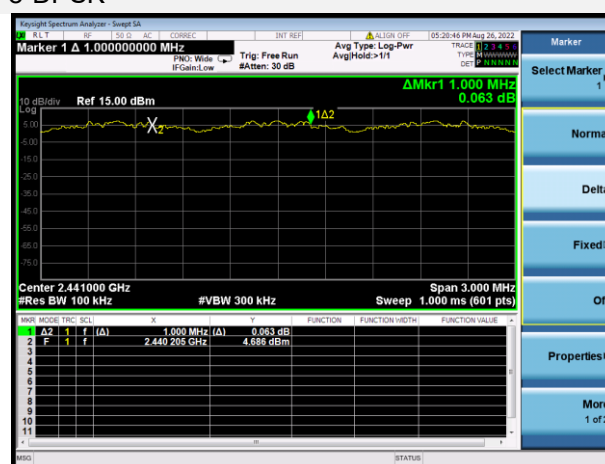
Mode	Frequency separation (MHz)	2/3 of the 20 dB Bandwidth (MHz)	Verdict
GFSK	1.000	0.640	Pass
8-DPSK	1.000	0.857	Pass

Test Plots

GFSK



8-DPSK



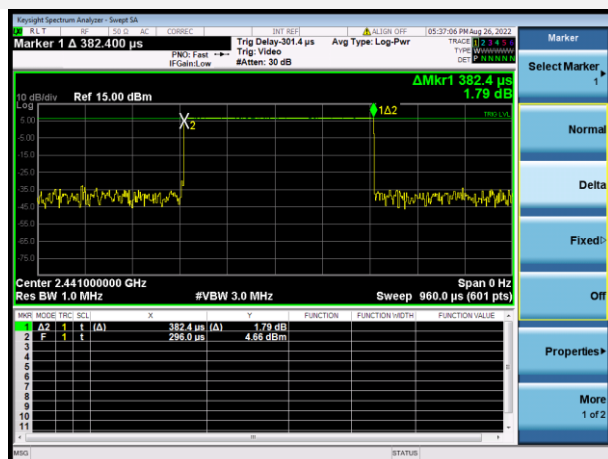
A.5 Average Time of Occupancy

Test Data

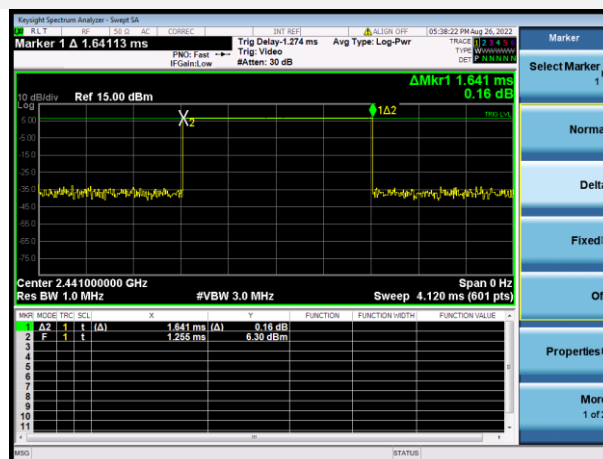
GFSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.38240	122.368	0.4	Pass
DH 3	1.64100	262.560	0.4	Pass
DH 5	2.88800	308.053	0.4	Pass
8-DPSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.38880	124.416	0.4	Pass
DH 3	1.64100	262.560	0.4	Pass
DH 5	2.88800	308.053	0.4	Pass
AFH Mode				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.38240	61.184	0.4	Pass
DH 3	1.63400	130.720	0.4	Pass
DH 5	2.88800	154.027	0.4	Pass

Test Plots

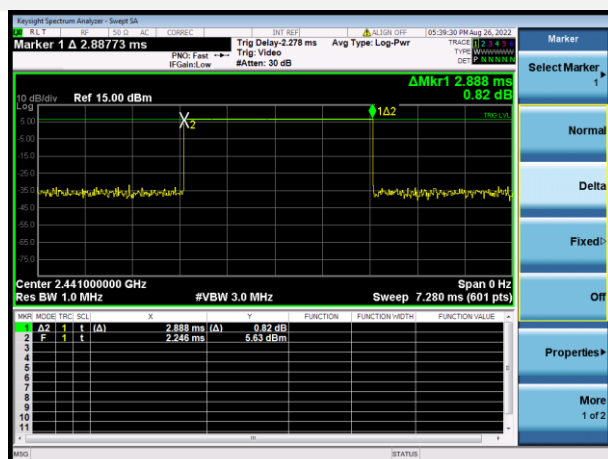
GFSK DH1



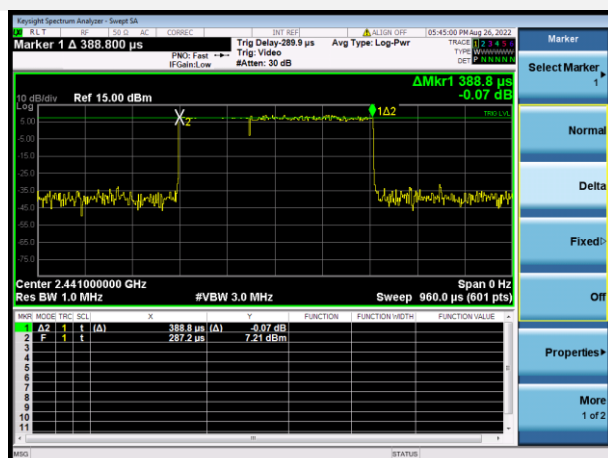
GFSK DH3



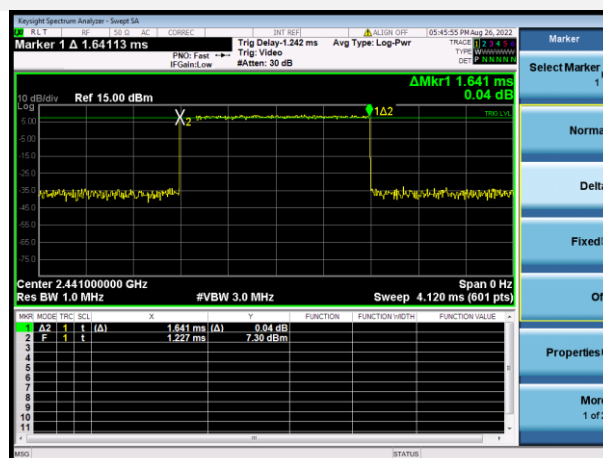
GFSK DH5



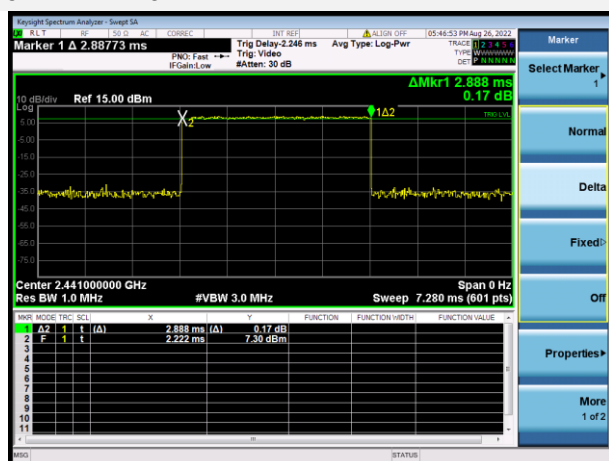
8-DPSK DH1



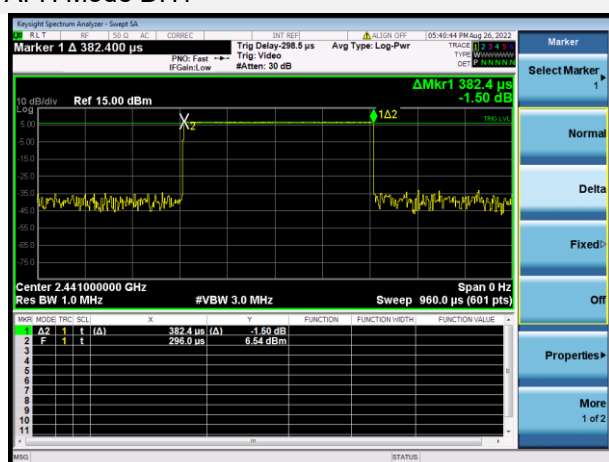
8-DPSK DH3



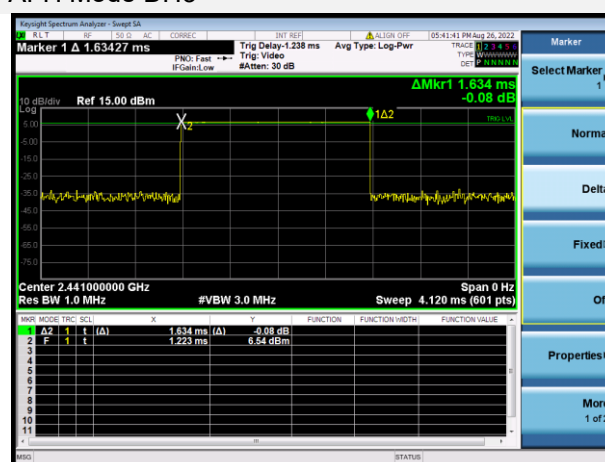
8-DPSK DH5



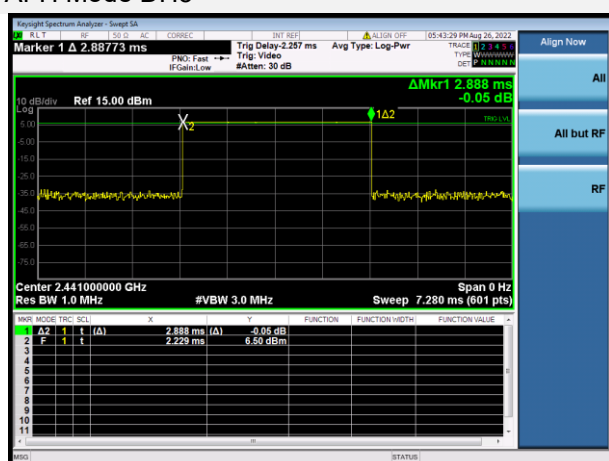
AFH Mode DH1



AFH Mode DH3



AFH Mode DH5



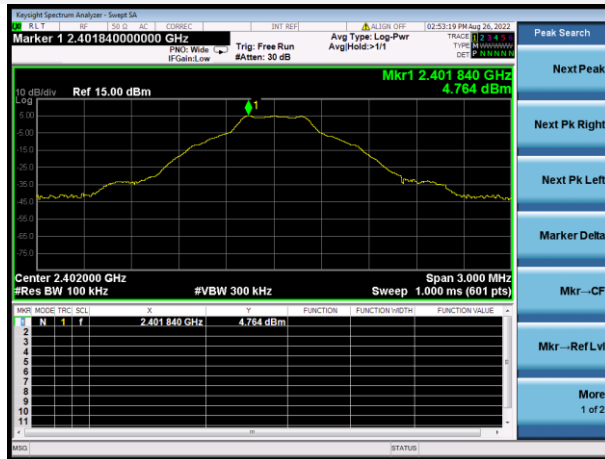
A.6 Conducted Spurious Emissions & Authorized-band band-edge

Test Data

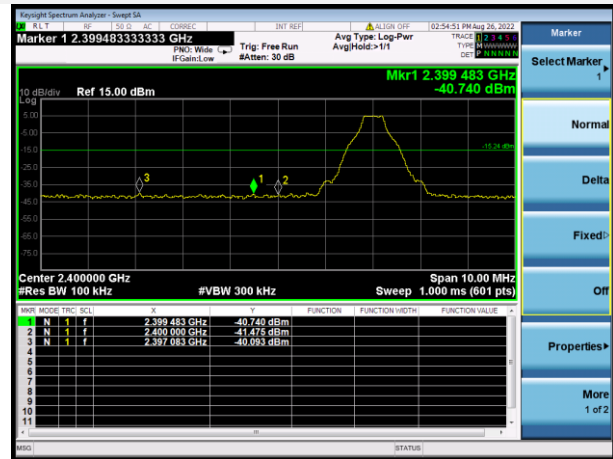
GFSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-26.89	4.76	-15.24	Pass
Middle	-27.41	4.29	-15.71	Pass
High	-27.27	4.37	-15.63	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-27.35	5.82	-14.18	Pass
Middle	-26.94	4.97	-15.03	Pass
High	-26.88	5.02	-14.98	Pass
Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-27.32	6.77	-13.23	Pass
8-DPSK	-25.44	7.60	-12.40	Pass

Test Plots

GFSK LOW CHANNEL, CARRIER LEVEL

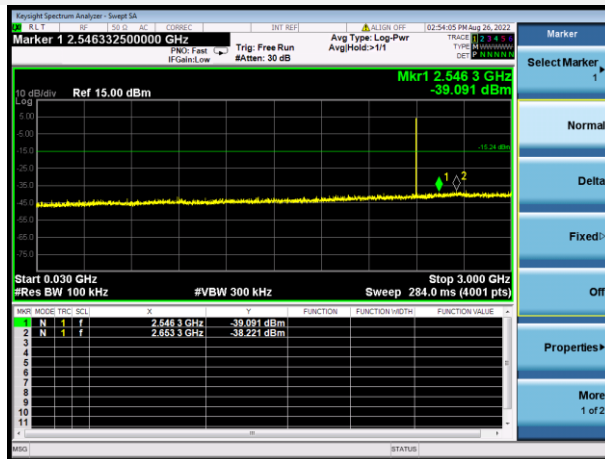


GFSK LOW CHANNEL, BAND EDGE



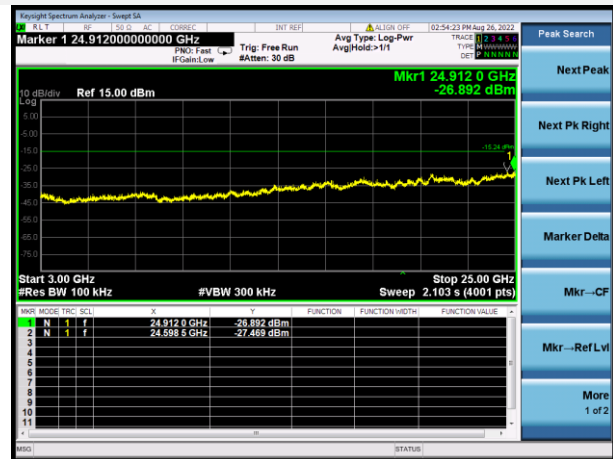
GFSK LOW CHANNEL, SPURIOUS

30 MHz ~ 3 GHz

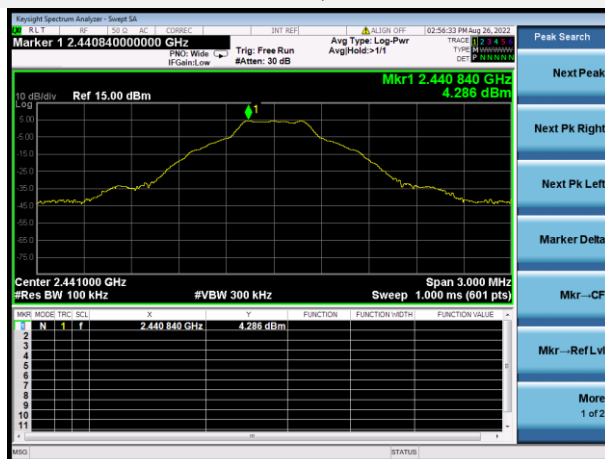


GFSK LOW CHANNEL, SPURIOUS

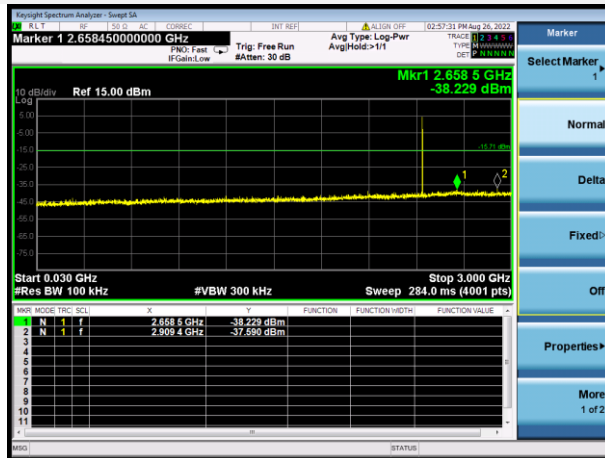
3 GHz ~ 25 GHz



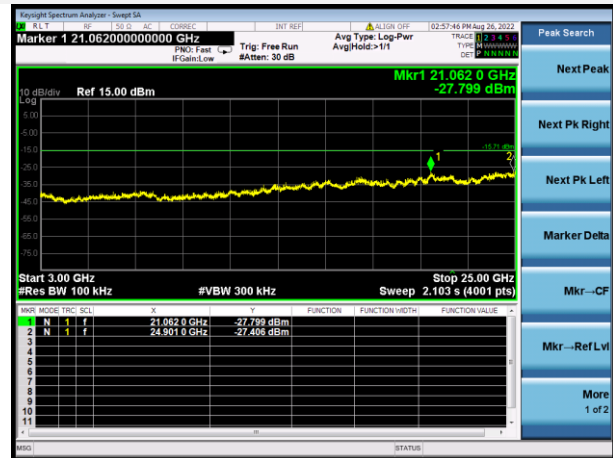
GFSK MIDDLE CHANNEL, CARRIER LEVEL



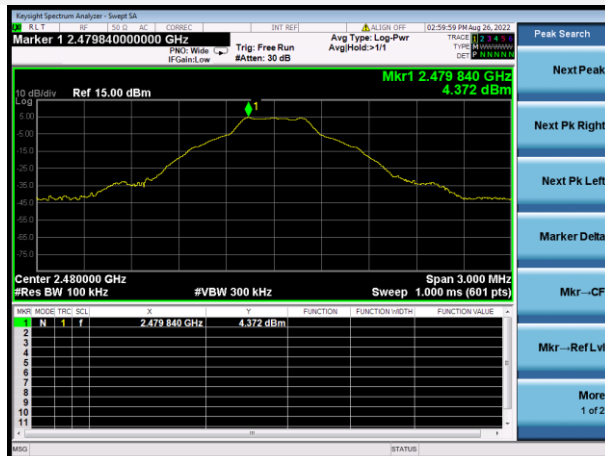
GFSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



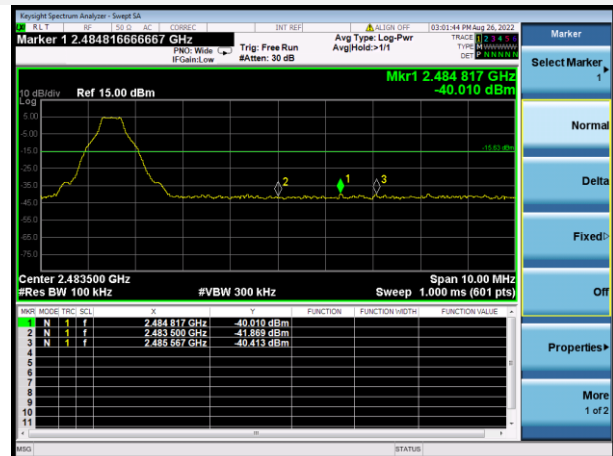
GFSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



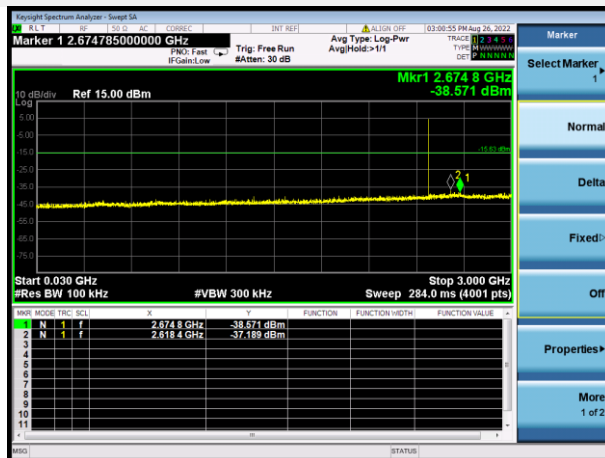
GFSK HIGH CHANNEL, CARRIER LEVEL



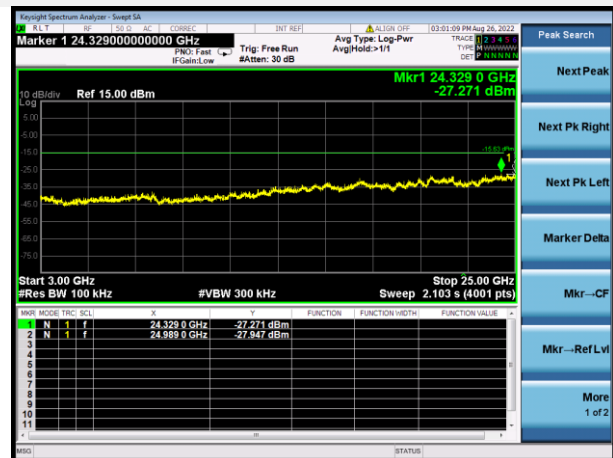
GFSK HIGH CHANNEL, BAND EDGE



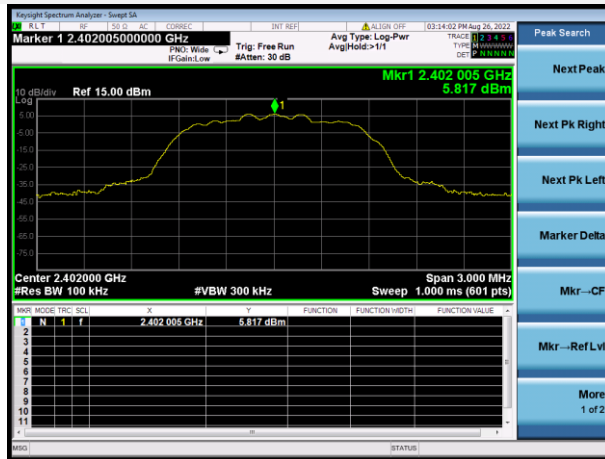
GFSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



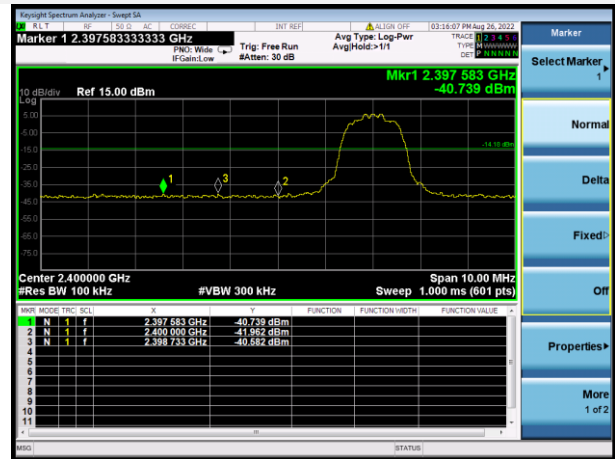
GFSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



8-DPSK LOW CHANNEL, CARRIER LEVEL

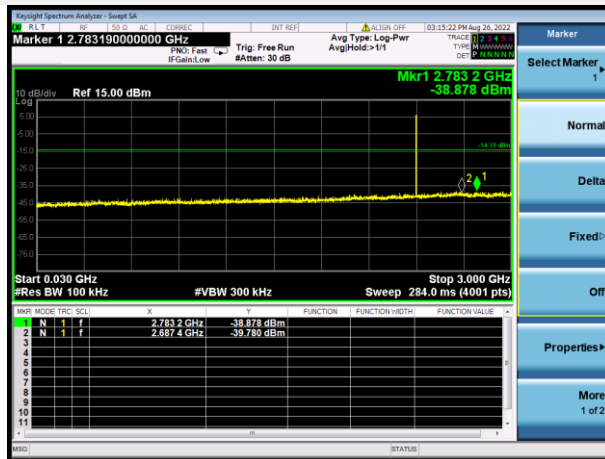


8-DPSK LOW CHANNEL, BAND EDGE



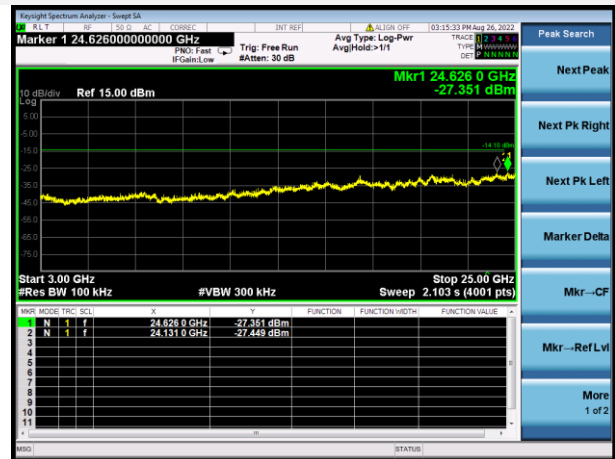
8-DPSK LOW CHANNEL, SPURIOUS

30 MHz ~ 3 GHz

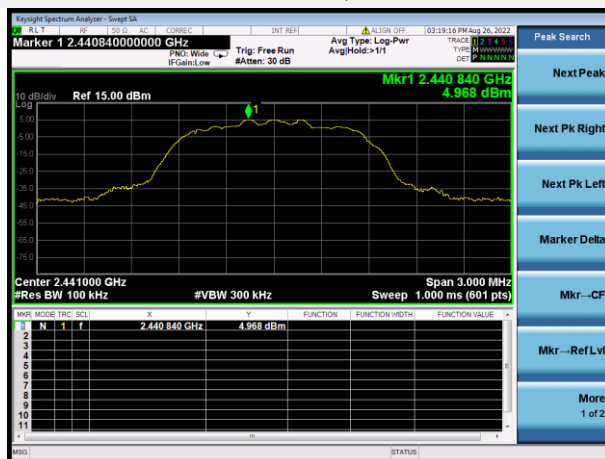


8-DPSK LOW CHANNEL, SPURIOUS

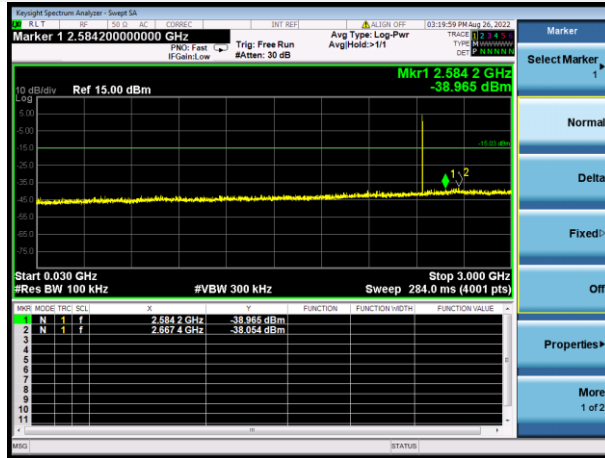
3 GHz ~ 25 GHz



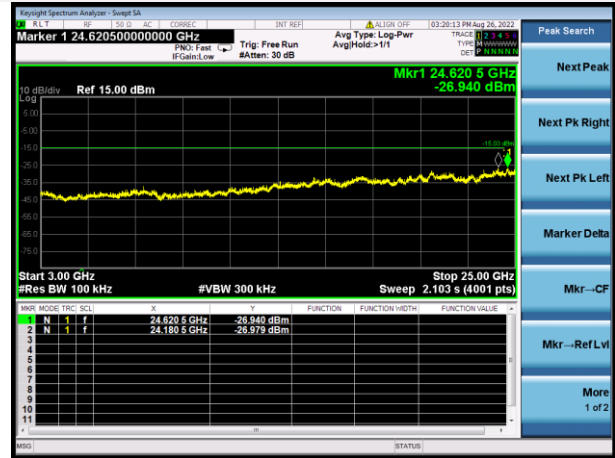
8-DPSK MIDDLE CHANNEL, CARRIER LEVEL



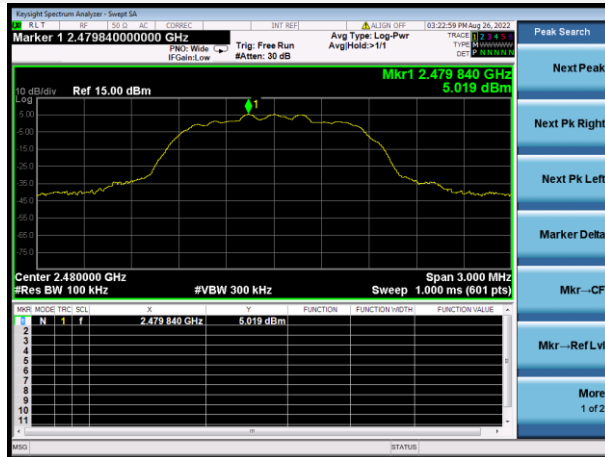
8-DPSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



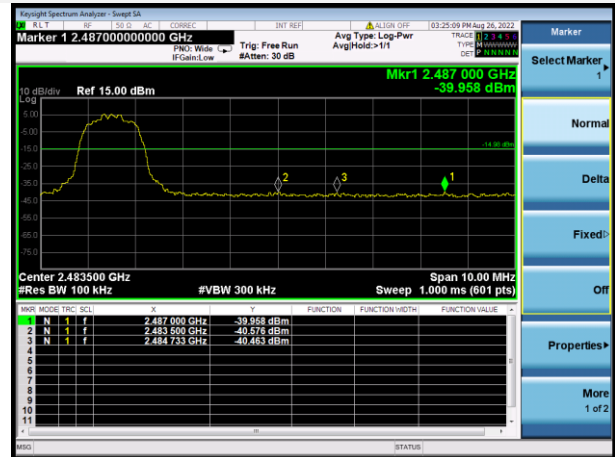
8-DPSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



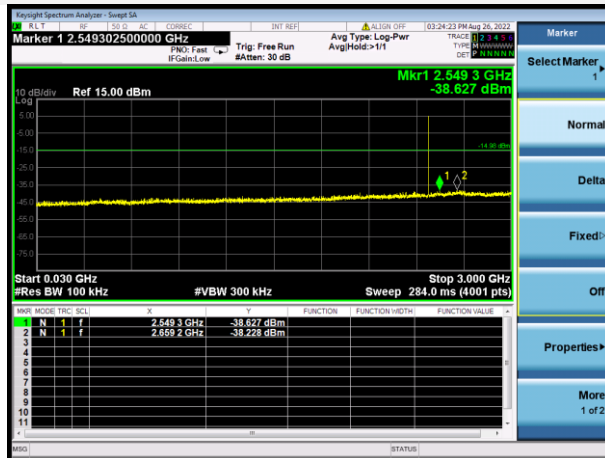
8-DPSK HIGH CHANNEL, CARRIER LEVEL



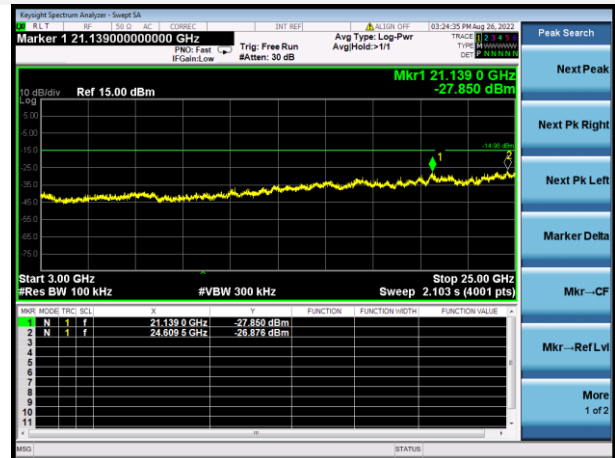
8-DPSK HIGH CHANNEL, BAND EDGE



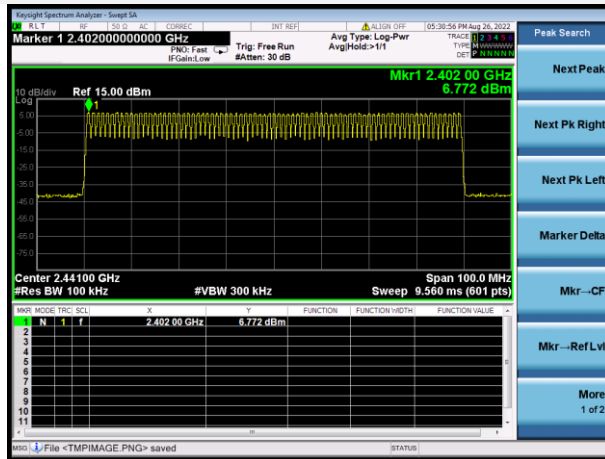
8-DPSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



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



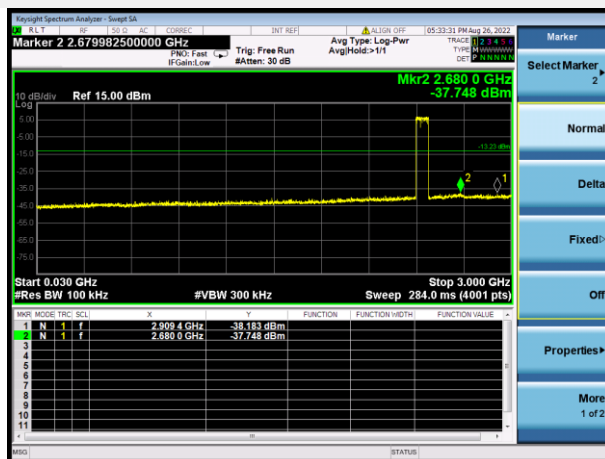
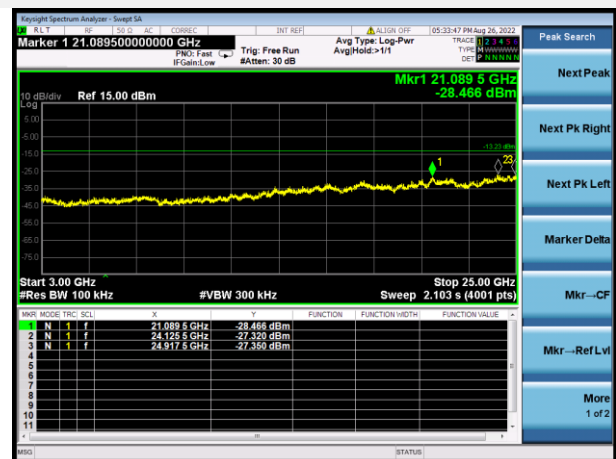
GFSK HOPPING, CARRIER LEVEL



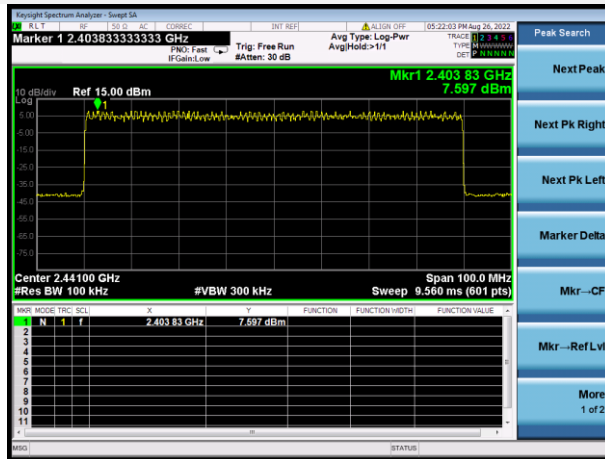
GFSK HOPPING BAND EDGE (LOW)



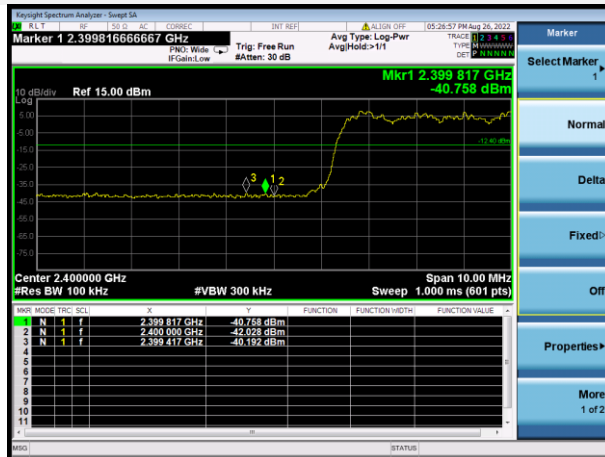
GFSK HOPPING BAND EDGE (HIGH)

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

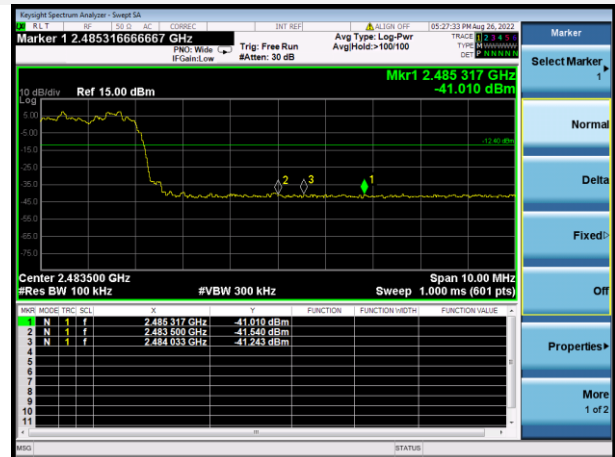
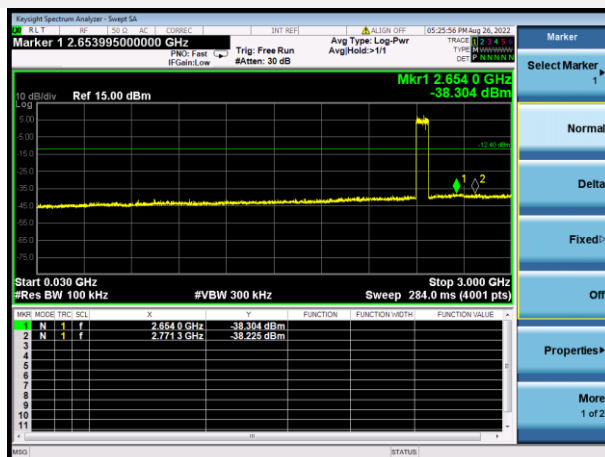
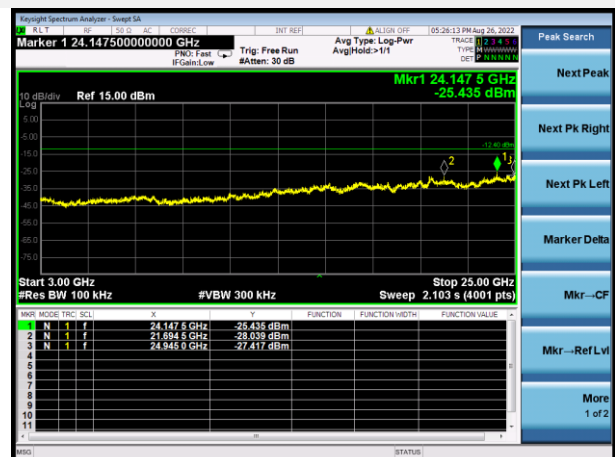
8-DPSK HOPPING, CARRIER LEVEL



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.

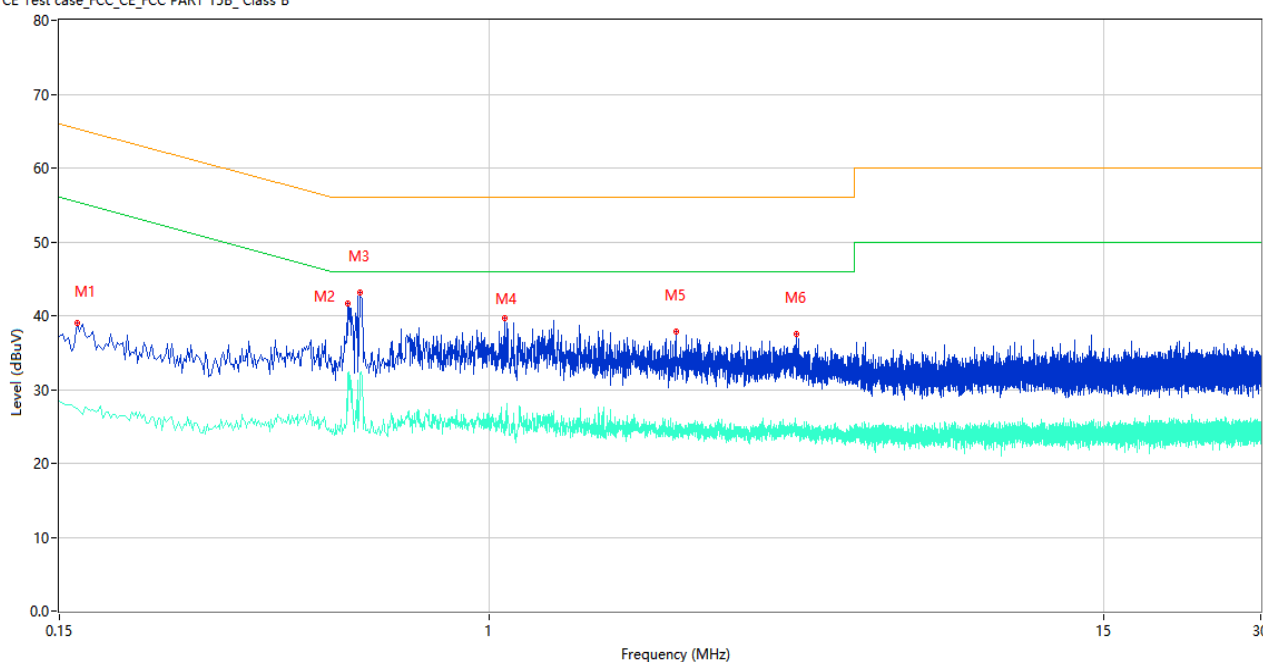
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

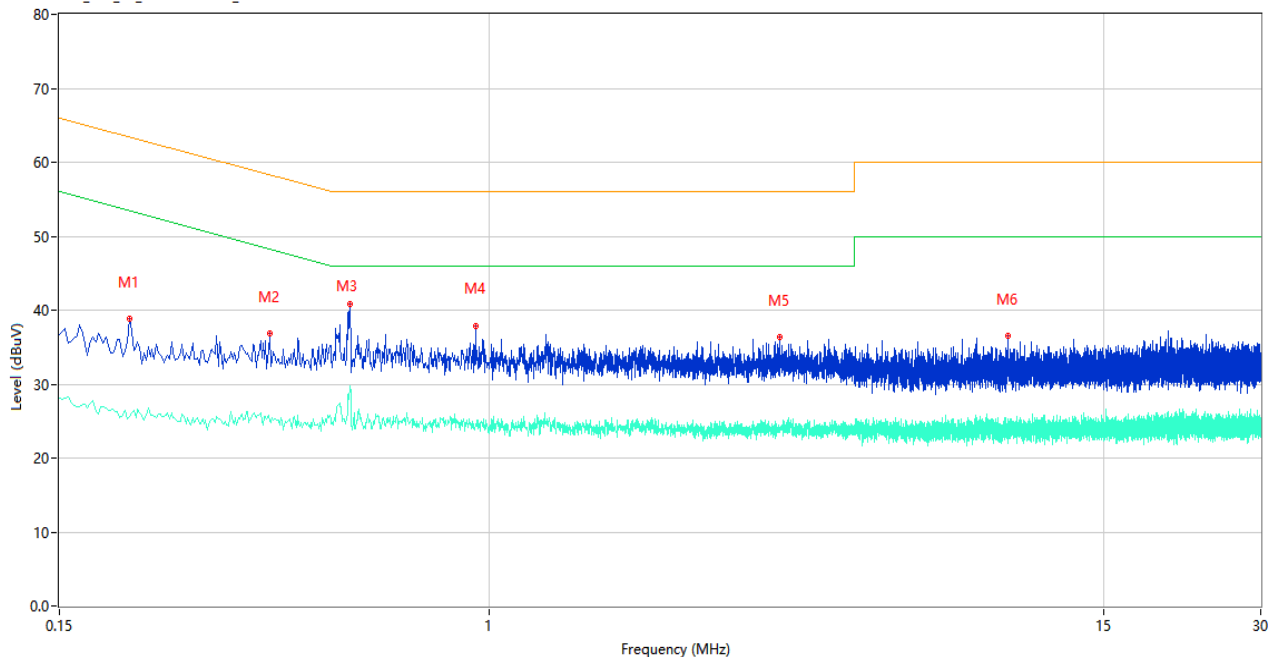
CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.162	39.00	10.08	65.36	-26.36	Peak	L	Pass
1**	0.162	27.47	10.08	55.36	-27.89	AV	L	Pass
2	0.534	41.66	10.20	56.00	-14.34	Peak	L	Pass
2**	0.534	32.25	10.20	46.00	-13.75	AV	L	Pass
3	0.564	43.11	10.25	56.00	-12.89	Peak	L	Pass
3**	0.564	30.39	10.25	46.00	-15.61	AV	L	Pass
4	1.068	39.70	10.21	56.00	-16.30	Peak	L	Pass
4**	1.068	25.56	10.21	46.00	-20.44	AV	L	Pass
5	2.276	37.85	10.32	56.00	-18.15	Peak	L	Pass
5**	2.276	25.57	10.32	46.00	-20.43	AV	L	Pass
6	3.880	37.50	10.38	56.00	-18.50	Peak	L	Pass
6**	3.880	25.18	10.38	46.00	-20.82	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	0.204	38.86	10.05	63.45	-24.59	Peak	N	Pass
1**	0.204	25.64	10.05	53.45	-27.81	AV	N	Pass
2	0.380	36.81	10.84	58.28	-21.47	Peak	N	Pass
2**	0.380	25.17	10.84	48.28	-23.11	AV	N	Pass
3	0.540	40.76	10.20	56.00	-15.24	Peak	N	Pass
3**	0.540	29.74	10.20	46.00	-16.26	AV	N	Pass
4	0.940	37.91	10.20	56.00	-18.09	Peak	N	Pass
4**	0.940	24.65	10.20	46.00	-21.35	AV	N	Pass
5	3.600	36.38	10.42	56.00	-19.62	Peak	N	Pass
5**	3.600	24.18	10.42	46.00	-21.82	AV	N	Pass
6	9.844	36.55	10.22	60.00	-23.45	Peak	N	Pass
6**	9.844	24.26	10.22	50.00	-25.74	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.

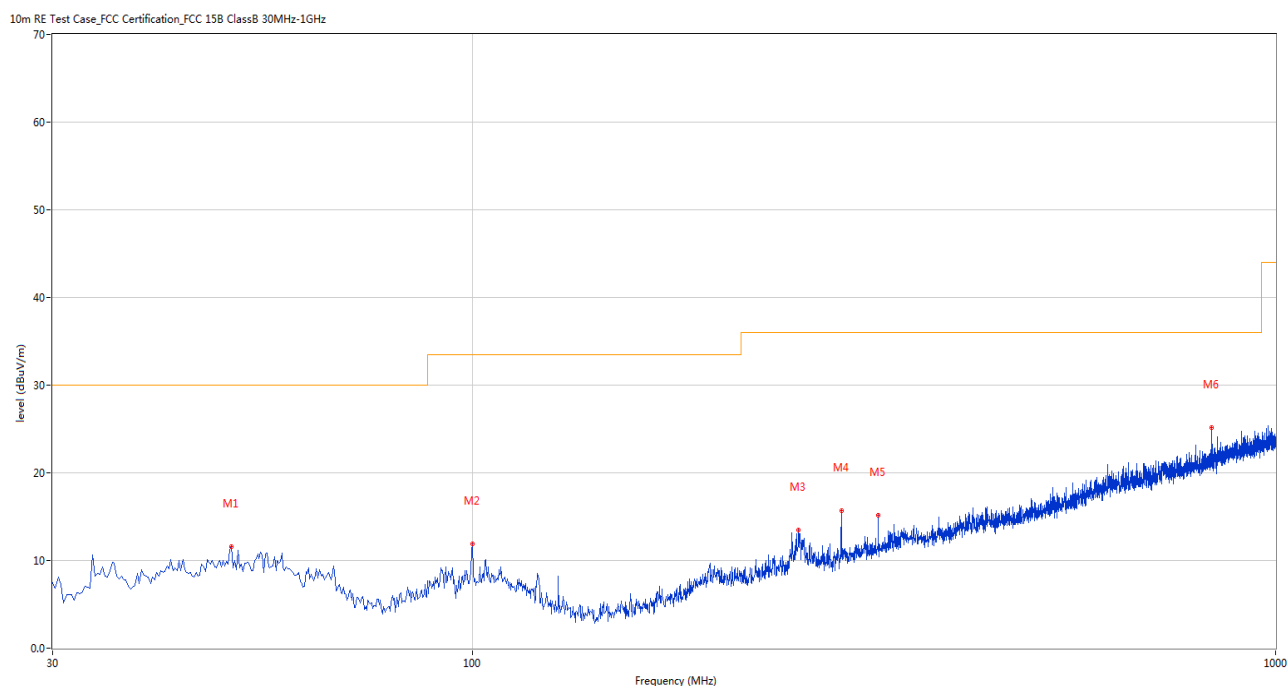
Note ³: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and DH5-Hopping mode is the worst.

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

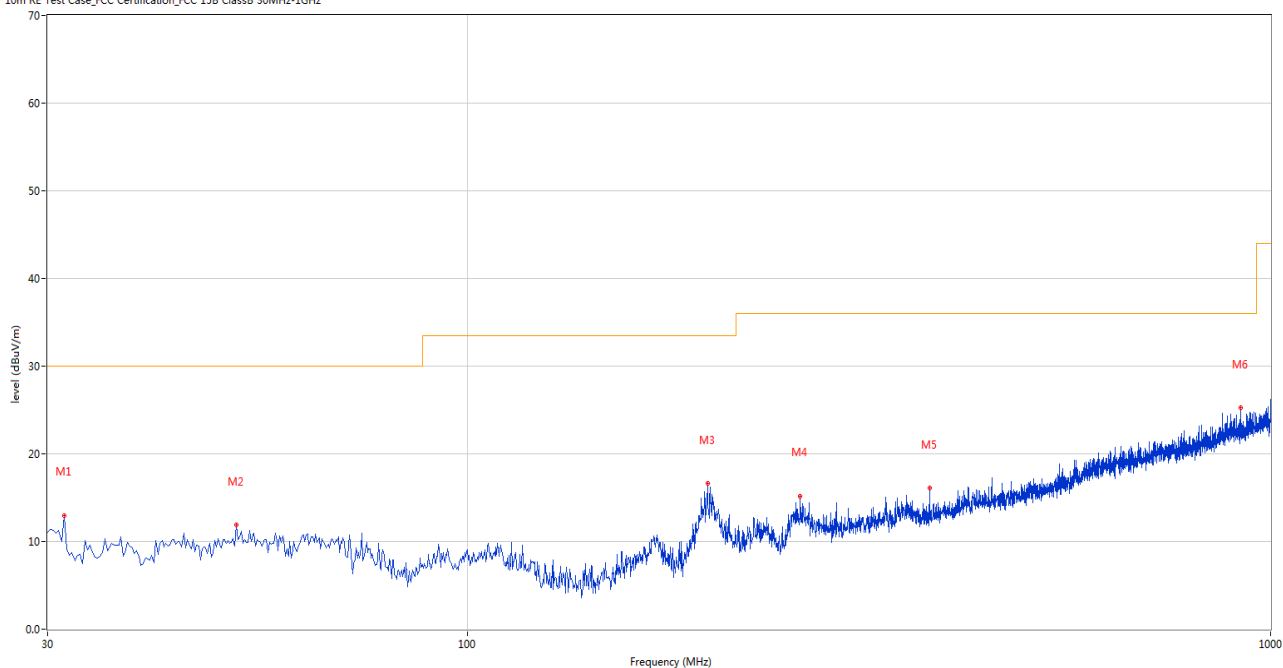
30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	50.122	11.55	-26.28	30.0	-18.45	Peak	305.00	100	Horizontal	Pass
2	100.065	11.85	-27.96	33.5	-21.65	Peak	0.00	200	Horizontal	Pass
3	254.741	13.46	-26.17	36.0	-22.54	Peak	307.00	200	Horizontal	Pass
4	287.956	15.67	-25.19	36.0	-20.33	Peak	342.00	200	Horizontal	Pass
5	319.958	15.14	-24.53	36.0	-20.86	Peak	360.00	100	Horizontal	Pass
6	833.202	25.11	-13.94	36.0	-10.89	Peak	255.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

10m RE Test Case_FCC Certification_FCC 15B ClassB 30MHz-1GHz



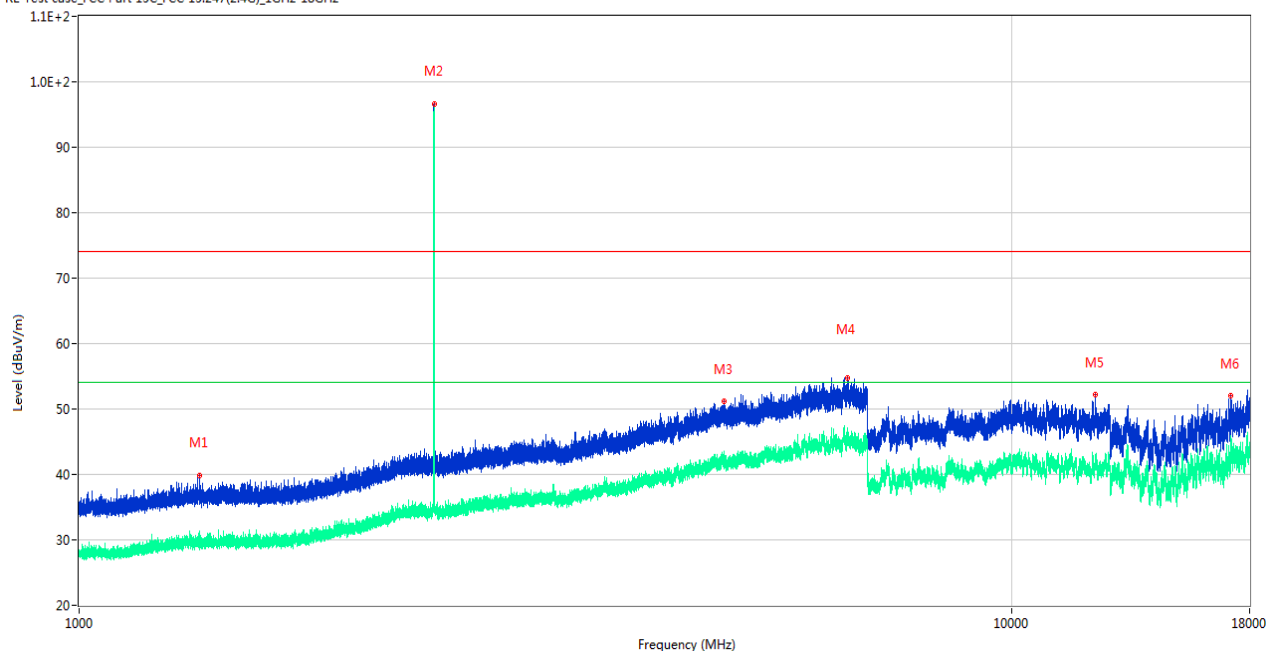
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	31.455	12.91	-29.46	30.0	-17.09	Peak	18.00	100	Vertical	Pass
2	51.577	11.89	-26.10	30.0	-18.11	Peak	150.00	200	Vertical	Pass
3	198.980	16.59	-27.79	33.5	-16.91	Peak	270.00	100	Vertical	Pass
4	259.590	15.16	-26.03	36.0	-20.84	Peak	28.00	100	Vertical	Pass
5	375.961	16.09	-23.14	36.0	-19.91	Peak	60.00	200	Vertical	Pass
6	918.055	25.26	-12.49	36.0	-10.74	Peak	33.00	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

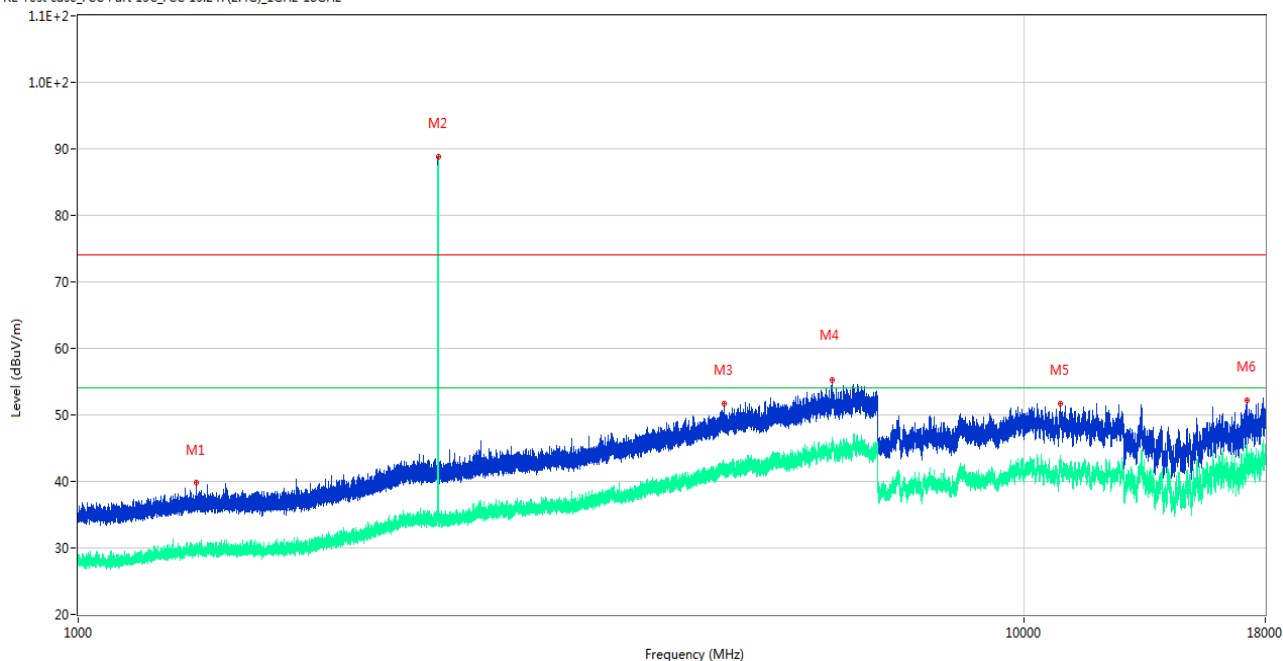
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1344.800	39.86	-16.88	74.0	-34.14	Peak	207.00	100	Horizontal	Pass
1**	1344.800	29.85	-16.88	54.0	-24.15	AV	207.00	100	Horizontal	Pass
2	2401.800	96.65	-11.74	74.0	22.65	Peak	207.00	150	Horizontal	N/A
2**	2401.800	95.39	-11.74	54.0	41.39	AV	207.00	150	Horizontal	N/A
3	4920.600	51.11	-2.28	74.0	-22.89	Peak	0.00	150	Horizontal	Pass
3**	4920.600	41.93	-2.28	54.0	-12.07	AV	0.00	150	Horizontal	Pass
4	6676.000	54.81	0.14	74.0	-19.19	Peak	262.00	200	Horizontal	Pass
4**	6676.000	46.13	0.14	54.0	-7.87	AV	262.00	200	Horizontal	Pass
5	12301.787	52.14	1.44	74.0	-21.86	Peak	157.00	400	Horizontal	Pass
5**	12301.787	41.56	1.44	54.0	-12.44	AV	157.00	400	Horizontal	Pass
6	17191.762	51.99	2.28	74.0	-22.01	Peak	14.00	200	Horizontal	Pass
6**	17191.762	43.82	2.28	54.0	-10.18	AV	14.00	200	Horizontal	Pass

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

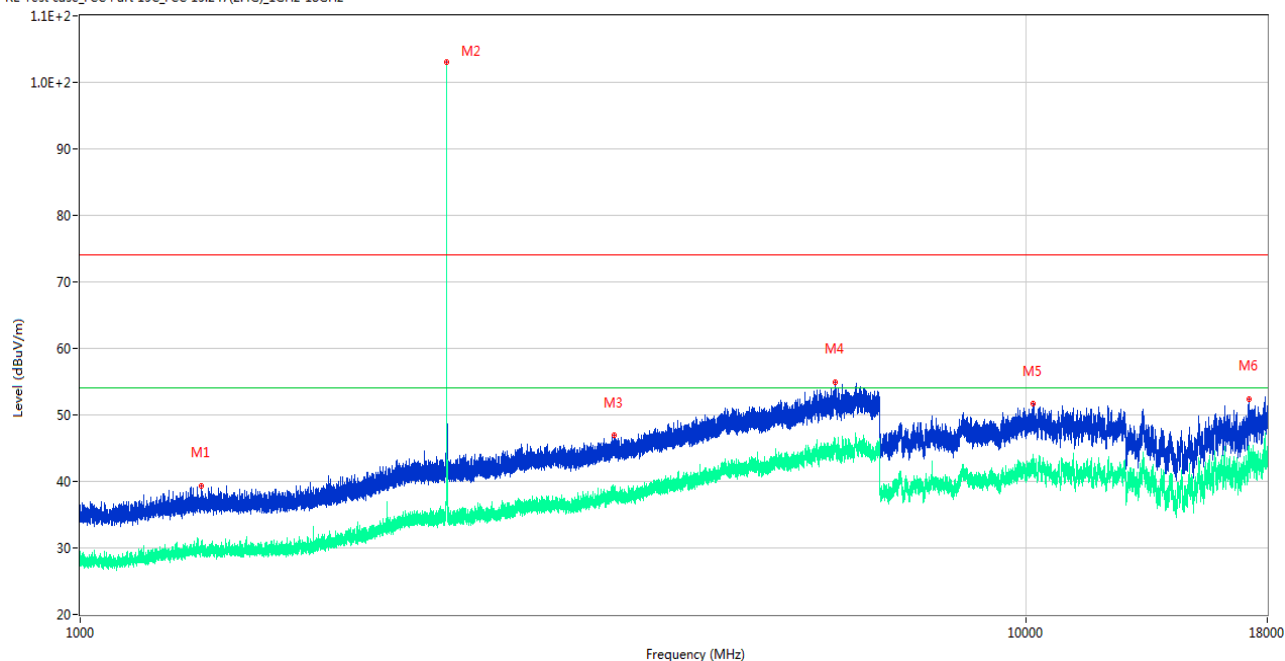
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.500	39.79	-17.10	74.0	-34.21	Peak	152.00	300	Vertical	Pass
1**	1332.500	30.24	-17.10	54.0	-23.76	AV	152.00	300	Vertical	Pass
2	2402.200	88.83	-11.74	74.0	14.83	Peak	113.00	100	Vertical	N/A
2**	2402.200	88.54	-11.74	54.0	34.54	AV	113.00	100	Vertical	N/A
3	4819.400	51.75	-2.72	74.0	-22.25	Peak	344.00	200	Vertical	Pass
3**	4819.400	41.98	-2.72	54.0	-12.02	AV	344.00	200	Vertical	Pass
4	6266.600	55.23	0.86	74.0	-18.77	Peak	199.00	300	Vertical	Pass
4**	6266.600	45.72	0.86	54.0	-8.28	AV	199.00	300	Vertical	Pass
5	10922.651	51.78	0.20	74.0	-22.22	Peak	181.00	200	Vertical	Pass
5**	10922.651	42.60	0.20	54.0	-11.40	AV	181.00	200	Vertical	Pass
6	17216.438	52.21	1.38	74.0	-21.79	Peak	152.00	100	Vertical	Pass
6**	17216.438	43.66	1.38	54.0	-10.34	AV	152.00	100	Vertical	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

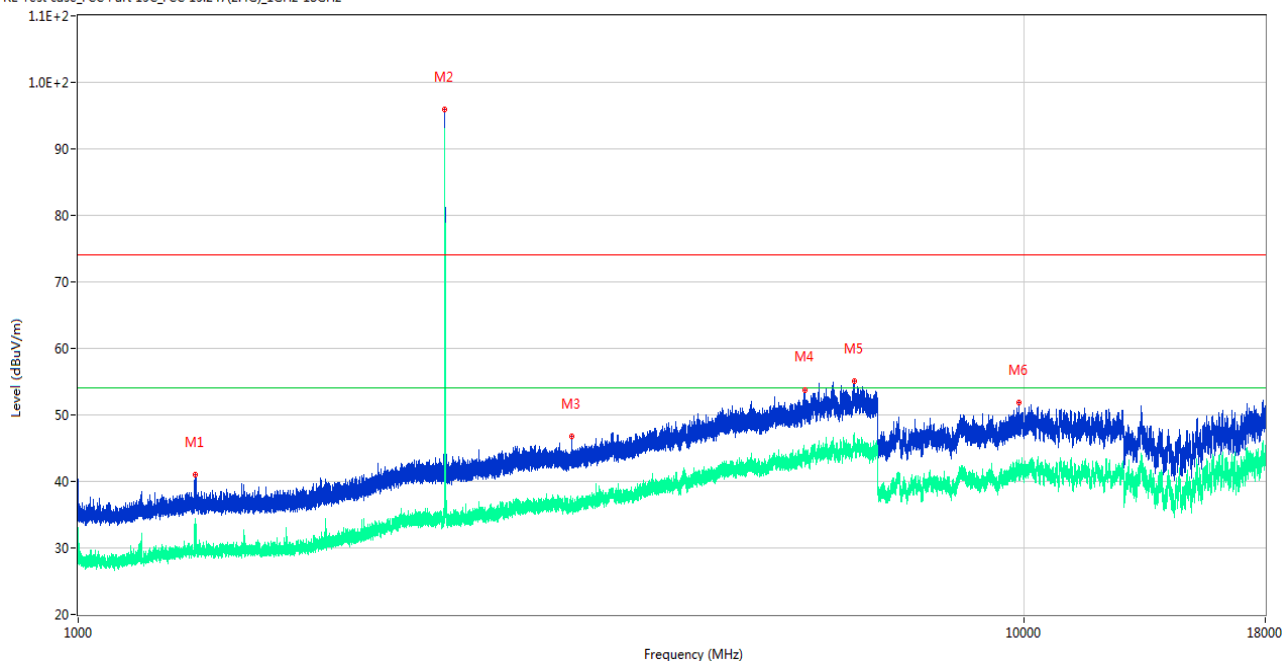
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1344.400	39.39	-16.85	74.0	-34.61	Peak	60.00	300	Horizontal	Pass
1**	1344.400	30.63	-16.85	54.0	-23.37	AV	60.00	300	Horizontal	Pass
2	2441.100	103.09	-12.19	74.0	29.09	Peak	265.00	200	Horizontal	N/A
2**	2441.100	102.78	-12.19	54.0	48.78	AV	265.00	200	Horizontal	N/A
3	3667.800	47.01	-6.24	74.0	-26.99	Peak	118.00	100	Horizontal	Pass
3**	3667.800	38.09	-6.24	54.0	-15.91	AV	118.00	100	Horizontal	Pass
4	6286.400	54.95	1.54	74.0	-19.05	Peak	128.00	200	Horizontal	Pass
4**	6286.400	45.62	1.54	54.0	-8.38	AV	128.00	200	Horizontal	Pass
5	10189.525	51.63	0.26	74.0	-22.37	Peak	330.00	300	Horizontal	Pass
5**	10189.525	41.78	0.26	54.0	-12.22	AV	330.00	300	Horizontal	Pass
6	17208.302	52.44	1.54	74.0	-21.56	Peak	48.00	200	Horizontal	Pass
6**	17208.302	43.90	1.54	54.0	-10.10	AV	48.00	200	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

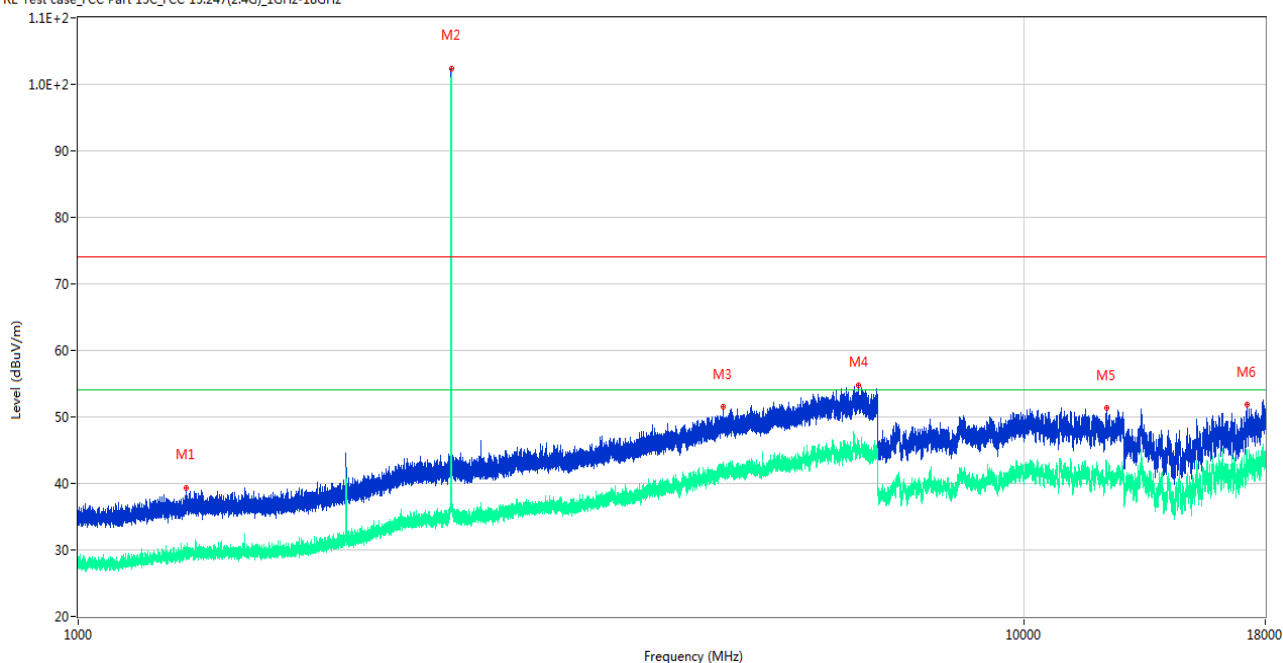
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.100	41.01	-17.19	74.0	-32.99	Peak	26.00	200	Vertical	Pass
1**	1329.100	29.58	-17.19	54.0	-24.42	AV	26.00	200	Vertical	Pass
2	2438.100	95.88	-12.30	74.0	21.88	Peak	149.00	200	Vertical	N/A
2**	2438.100	92.96	-12.30	54.0	38.96	AV	149.00	200	Vertical	N/A
3	3325.000	46.86	-8.03	74.0	-27.14	Peak	59.00	100	Vertical	Pass
3**	3325.000	36.23	-8.03	54.0	-17.77	AV	59.00	100	Vertical	Pass
4	5862.600	53.75	0.35	74.0	-20.25	Peak	360.00	300	Vertical	Pass
4**	5862.600	43.60	0.35	54.0	-10.40	AV	360.00	300	Vertical	Pass
5	6614.000	55.07	2.07	74.0	-18.93	Peak	123.00	200	Vertical	Pass
5**	6614.000	45.47	2.07	54.0	-8.53	AV	123.00	200	Vertical	Pass
6	9872.125	51.81	-0.82	74.0	-22.19	Peak	261.00	100	Vertical	Pass
6**	9872.125	41.24	-0.82	54.0	-12.76	AV	261.00	100	Vertical	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

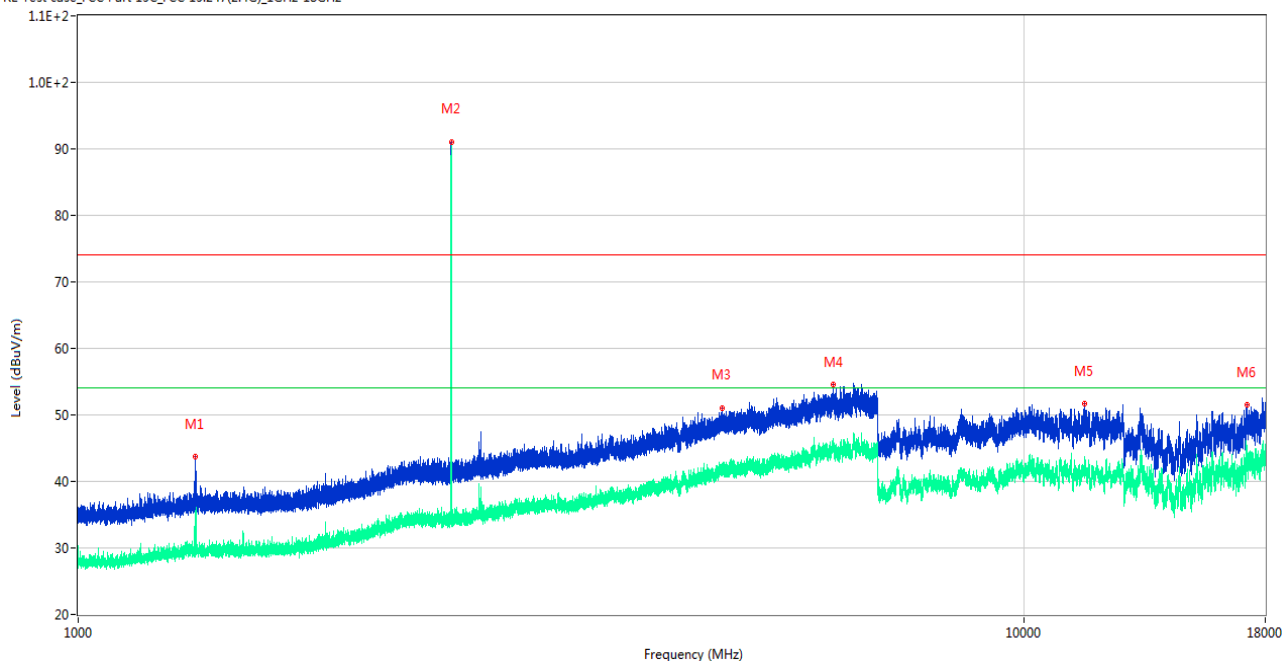
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1301.300	39.40	-17.10	74.0	-34.60	Peak	324.00	200	Horizontal	Pass
1**	1301.300	30.47	-17.10	54.0	-23.53	AV	324.00	200	Horizontal	Pass
2	2479.800	102.43	-12.20	74.0	28.43	Peak	277.00	100	Horizontal	N/A
2**	2479.800	101.51	-12.20	54.0	47.51	AV	277.00	100	Horizontal	N/A
3	4811.000	51.50	-2.58	74.0	-22.50	Peak	344.00	150	Horizontal	Pass
3**	4811.000	41.24	-2.58	54.0	-12.76	AV	344.00	150	Horizontal	Pass
4	6686.800	54.79	0.19	74.0	-19.21	Peak	283.00	100	Horizontal	Pass
4**	6686.800	44.89	0.19	54.0	-9.11	AV	283.00	100	Horizontal	Pass
5	12228.763	51.29	1.30	74.0	-22.71	Peak	12.00	300	Horizontal	Pass
5**	12228.763	42.09	1.30	54.0	-11.91	AV	12.00	300	Horizontal	Pass
6	17206.198	51.81	1.60	74.0	-22.19	Peak	162.00	200	Horizontal	Pass
6**	17206.198	43.70	1.60	54.0	-10.30	AV	162.00	200	Horizontal	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

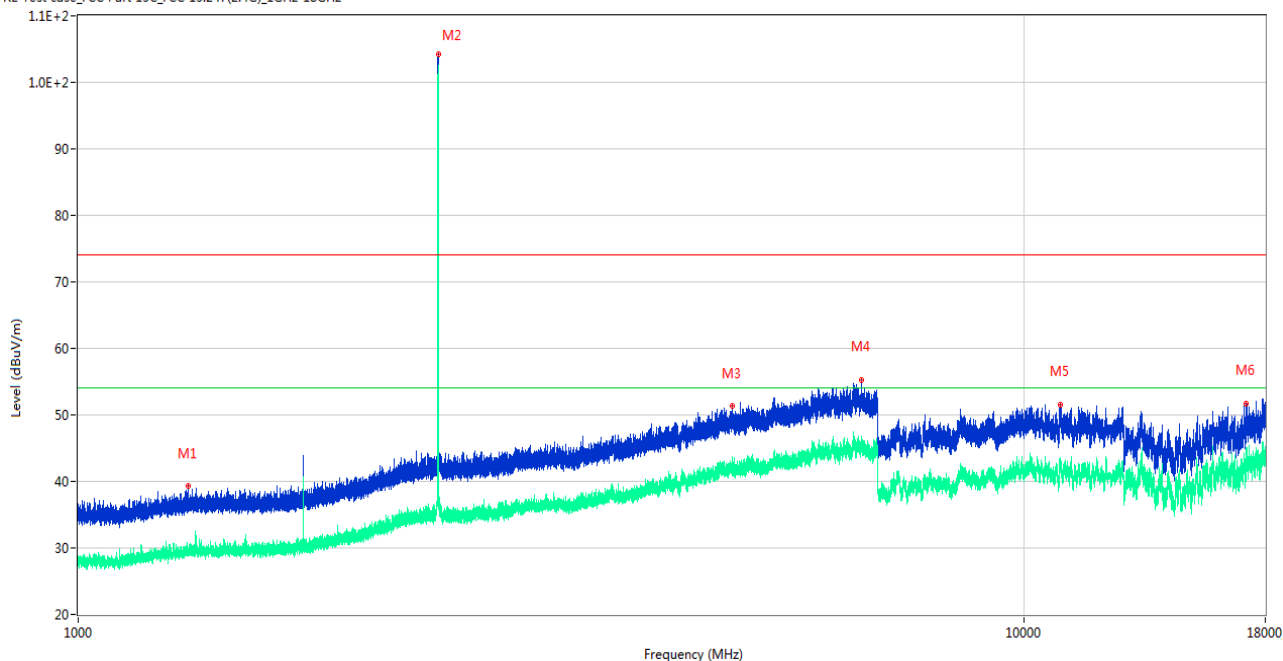
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.500	43.65	-17.11	74.0	-30.35	Peak	114.00	400	Vertical	Pass
1**	1328.500	34.55	-17.11	54.0	-19.45	AV	114.00	400	Vertical	Pass
2	2480.100	91.04	-12.20	74.0	17.04	Peak	186.00	150	Vertical	N/A
2**	2480.100	90.77	-12.20	54.0	36.77	AV	186.00	150	Vertical	N/A
3	4794.200	51.07	-1.78	74.0	-22.93	Peak	344.00	100	Vertical	Pass
3**	4794.200	41.28	-1.78	54.0	-12.72	AV	344.00	100	Vertical	Pass
4	6293.400	54.55	0.98	74.0	-19.45	Peak	293.00	100	Vertical	Pass
4**	6293.400	45.99	0.98	54.0	-8.01	AV	293.00	100	Vertical	Pass
5	11598.276	51.66	-0.10	74.0	-22.34	Peak	124.00	400	Vertical	Pass
5**	11598.276	41.66	-0.10	54.0	-12.34	AV	124.00	400	Vertical	Pass
6	17206.725	51.45	1.59	74.0	-22.55	Peak	71.00	300	Vertical	Pass
6**	17206.725	43.04	1.59	54.0	-10.96	AV	71.00	300	Vertical	Pass

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

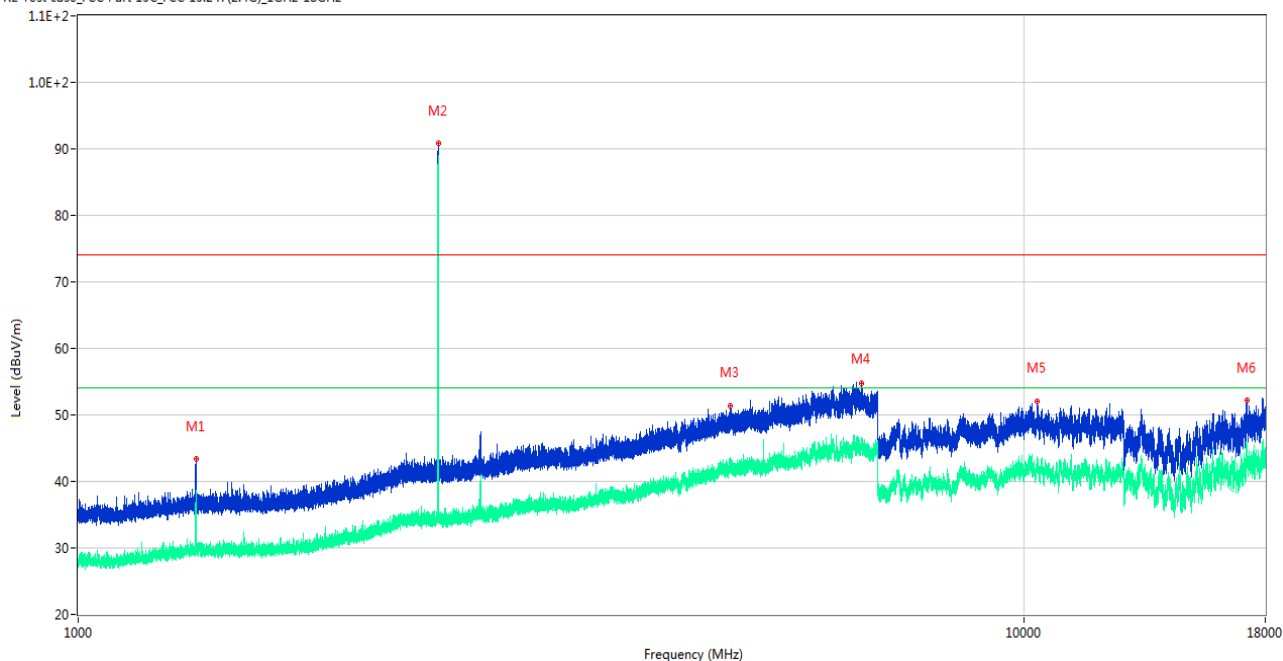
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1306.200	39.24	-17.18	74.0	-34.76	Peak	234.00	300	Horizontal	Pass
1**	1306.200	29.05	-17.18	54.0	-24.95	AV	234.00	300	Horizontal	Pass
2	2401.900	104.21	-11.74	74.0	30.21	Peak	276.00	200	Horizontal	N/A
2**	2401.900	102.08	-11.74	54.0	48.08	AV	276.00	200	Horizontal	N/A
3	4917.400	51.30	-2.40	74.0	-22.70	Peak	106.00	200	Horizontal	Pass
3**	4917.400	41.42	-2.40	54.0	-12.58	AV	106.00	200	Horizontal	Pass
4	6742.600	55.26	2.19	74.0	-18.74	Peak	148.00	100	Horizontal	Pass
4**	6742.600	45.15	2.19	54.0	-8.85	AV	148.00	100	Horizontal	Pass
5	10940.188	51.61	-0.06	74.0	-22.39	Peak	220.00	300	Horizontal	Pass
5**	10940.188	42.26	-0.06	54.0	-11.74	AV	220.00	300	Horizontal	Pass
6	17199.114	51.74	1.95	74.0	-22.26	Peak	344.00	100	Horizontal	Pass
6**	17199.114	43.90	1.95	54.0	-10.10	AV	344.00	100	Horizontal	Pass

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

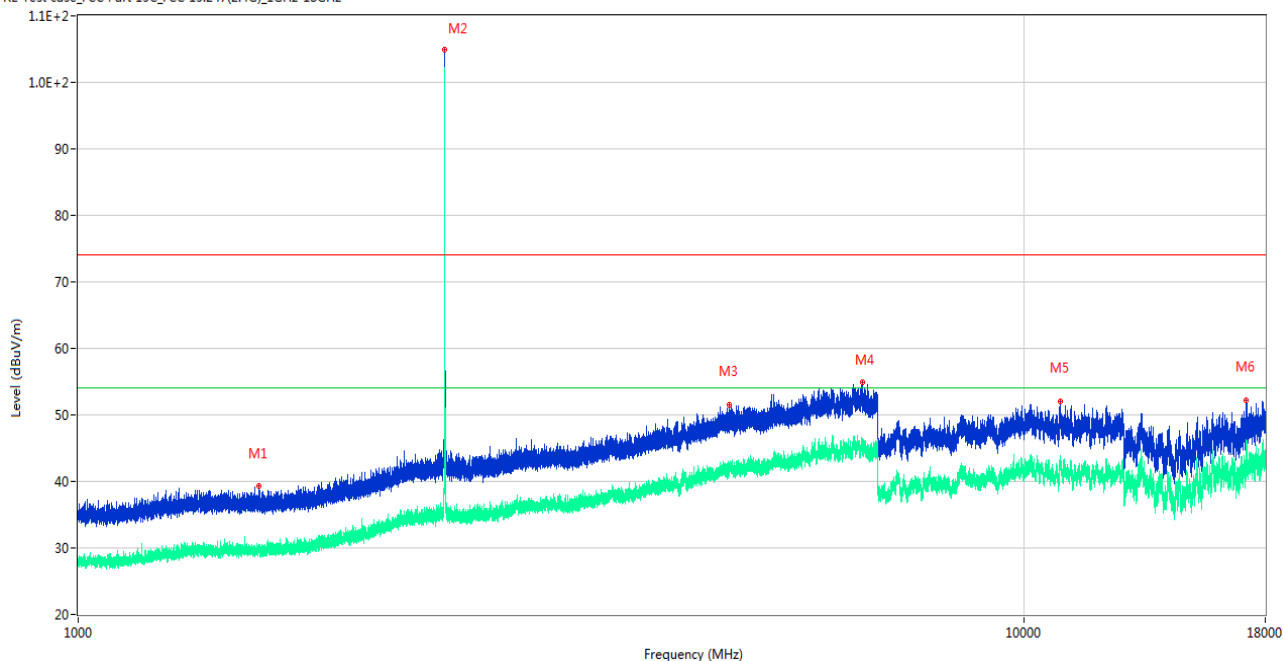
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.900	43.34	-17.19	74.0	-30.66	Peak	24.00	400	Vertical	Pass
1**	1331.900	29.89	-17.19	54.0	-24.11	AV	24.00	400	Vertical	Pass
2	2402.000	90.83	-11.74	74.0	16.83	Peak	185.00	200	Vertical	N/A
2**	2402.000	89.01	-11.74	54.0	35.01	AV	185.00	200	Vertical	N/A
3	4897.400	51.38	-2.35	74.0	-22.62	Peak	111.00	200	Vertical	Pass
3**	4897.400	42.22	-2.35	54.0	-11.78	AV	111.00	200	Vertical	Pass
4	6737.400	54.68	2.32	74.0	-19.32	Peak	266.00	100	Vertical	Pass
4**	6737.400	45.34	2.32	54.0	-8.66	AV	266.00	100	Vertical	Pass
5	10332.701	52.04	0.04	74.0	-21.96	Peak	360.00	200	Vertical	Pass
5**	10332.701	42.18	0.04	54.0	-11.82	AV	360.00	200	Vertical	Pass
6	17202.786	52.16	1.75	74.0	-21.84	Peak	327.00	200	Vertical	Pass
6**	17202.786	44.06	1.75	54.0	-9.94	AV	327.00	200	Vertical	Pass

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

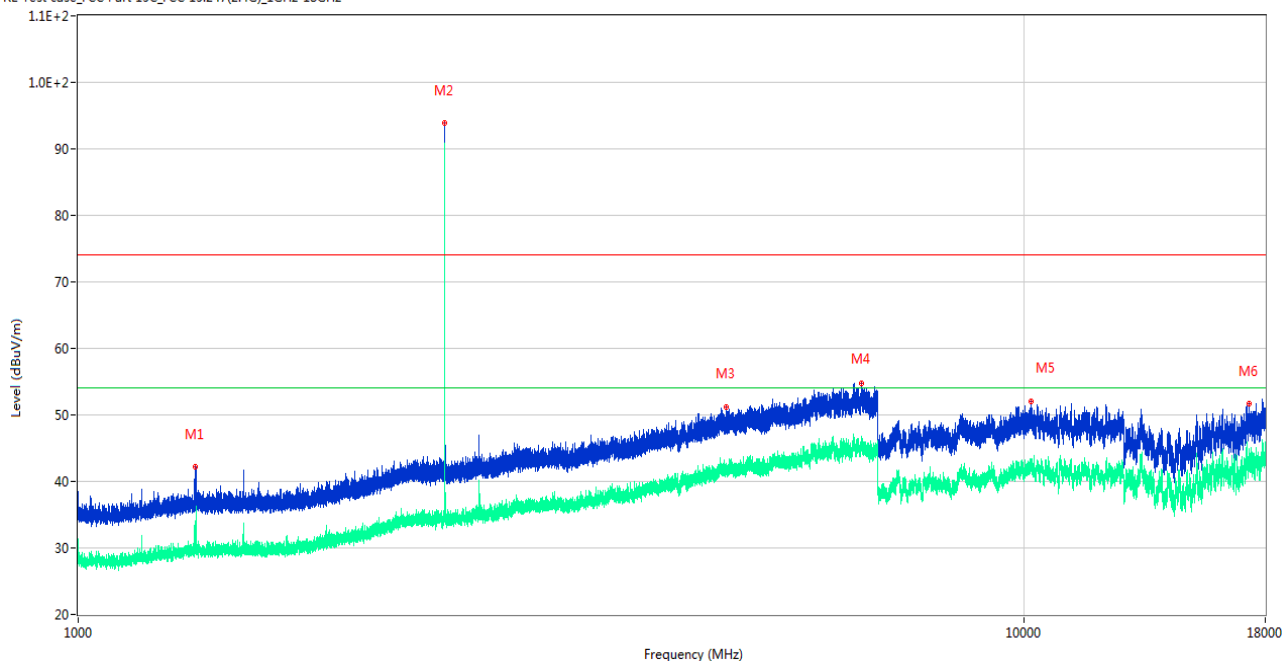
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1551.800	39.26	-16.97	74.0	-34.74	Peak	278.00	300	Horizontal	Pass
1**	1551.800	29.54	-16.97	54.0	-24.46	AV	278.00	300	Horizontal	Pass
2	2441.000	104.92	-12.20	74.0	30.92	Peak	266.00	100	Horizontal	N/A
2**	2441.000	101.95	-12.20	54.0	47.95	AV	266.00	100	Horizontal	N/A
3	4886.600	51.54	-2.49	74.0	-22.46	Peak	293.00	150	Horizontal	Pass
3**	4886.600	41.41	-2.49	54.0	-12.59	AV	293.00	150	Horizontal	Pass
4	6748.200	54.88	1.43	74.0	-19.12	Peak	0.00	100	Horizontal	Pass
4**	6748.200	46.21	1.43	54.0	-7.79	AV	0.00	100	Horizontal	Pass
5	10919.200	52.10	0.23	74.0	-21.90	Peak	77.00	100	Horizontal	Pass
5**	10919.200	43.05	0.23	54.0	-10.95	AV	77.00	100	Horizontal	Pass
6	17190.713	52.25	2.31	74.0	-21.75	Peak	344.00	300	Horizontal	Pass
6**	17190.713	43.45	2.31	54.0	-10.55	AV	344.00	300	Horizontal	Pass

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

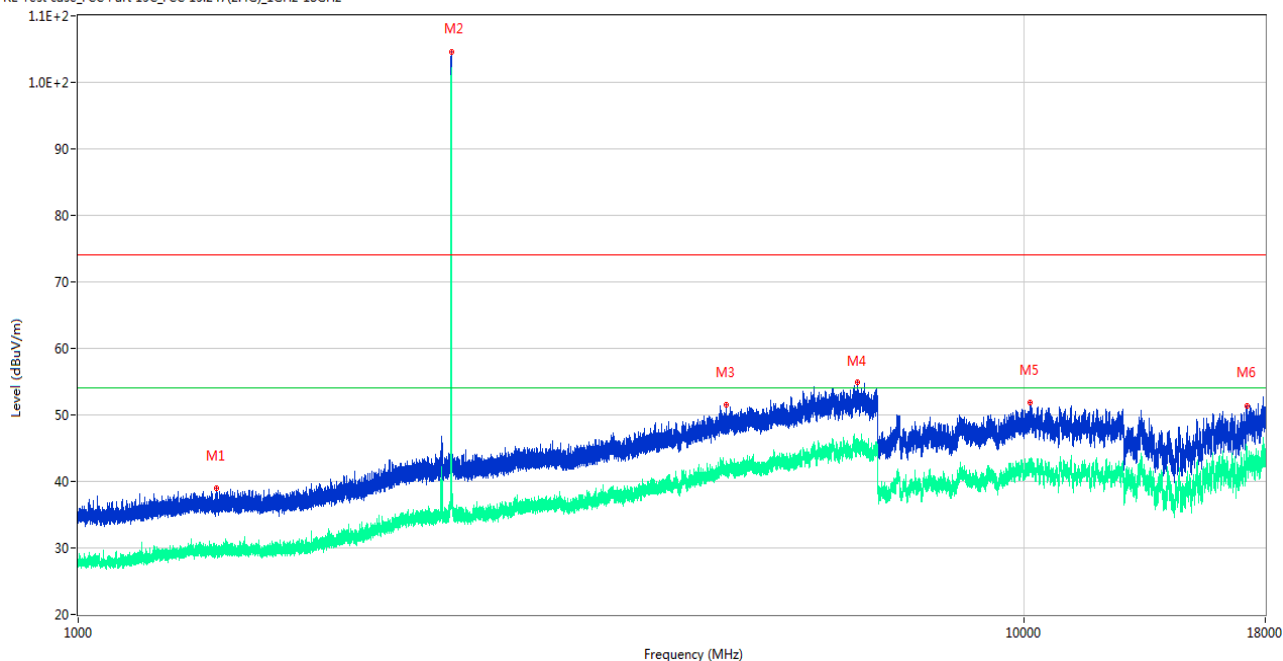
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.600	42.15	-17.38	74.0	-31.85	Peak	96.00	400	Vertical	Pass
1**	1330.600	32.99	-17.38	54.0	-21.01	AV	96.00	400	Vertical	Pass
2	2440.800	93.90	-12.21	74.0	19.90	Peak	189.00	150	Vertical	N/A
2**	2440.800	90.22	-12.21	54.0	36.22	AV	189.00	150	Vertical	N/A
3	4847.800	51.19	-2.98	74.0	-22.81	Peak	83.00	100	Vertical	Pass
3**	4847.800	41.87	-2.98	54.0	-12.13	AV	83.00	100	Vertical	Pass
4	6736.200	54.67	2.44	74.0	-19.33	Peak	96.00	100	Vertical	Pass
4**	6736.200	45.76	2.44	54.0	-8.24	AV	96.00	100	Vertical	Pass
5	10186.362	51.98	0.19	74.0	-22.02	Peak	284.00	300	Vertical	Pass
5**	10186.362	42.38	0.19	54.0	-11.62	AV	284.00	300	Vertical	Pass
6	17301.225	51.62	1.54	74.0	-22.38	Peak	186.00	100	Vertical	Pass
6**	17301.225	42.87	1.54	54.0	-11.13	AV	186.00	100	Vertical	Pass

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

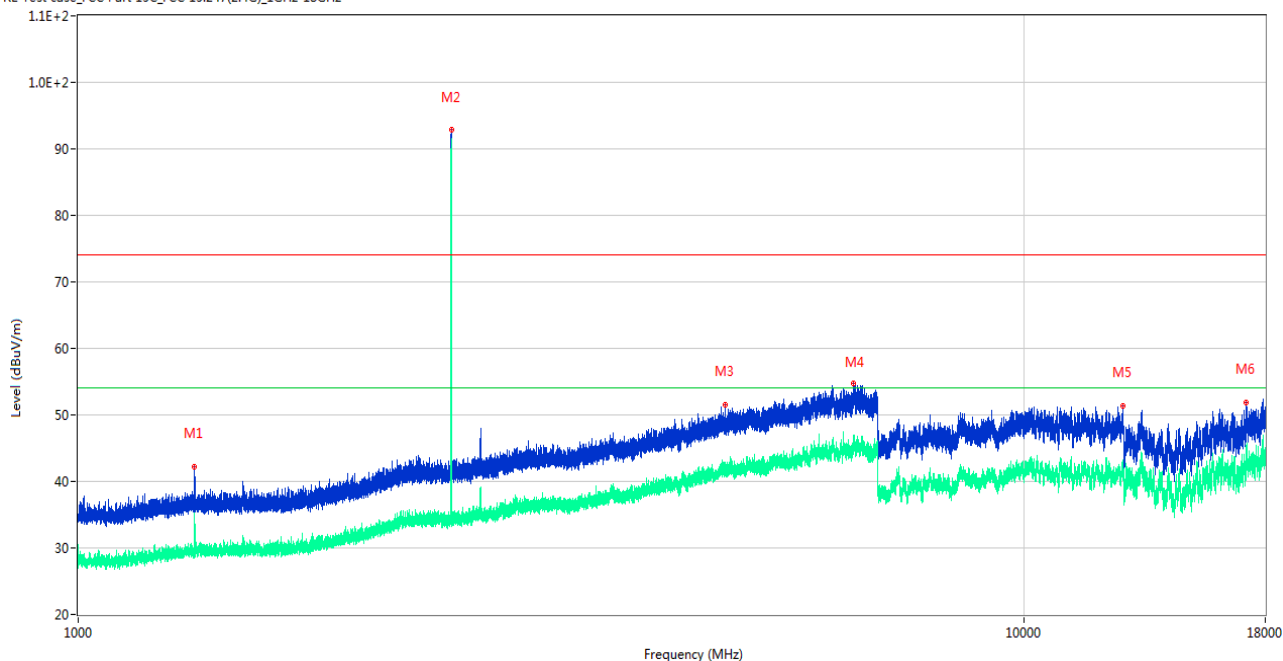
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1401.400	38.95	-17.24	74.0	-35.05	Peak	191.00	400	Horizontal	Pass
1**	1401.400	29.48	-17.24	54.0	-24.52	AV	191.00	400	Horizontal	Pass
2	2480.000	104.57	-12.20	74.0	30.57	Peak	280.00	100	Horizontal	N/A
2**	2480.000	101.73	-12.20	54.0	47.73	AV	280.00	100	Horizontal	N/A
3	4840.800	51.49	-2.91	74.0	-22.51	Peak	354.00	150	Horizontal	Pass
3**	4840.800	41.60	-2.91	54.0	-12.40	AV	354.00	150	Horizontal	Pass
4	6668.600	54.97	0.29	74.0	-19.03	Peak	253.00	100	Horizontal	Pass
4**	6668.600	44.87	0.29	54.0	-9.13	AV	253.00	100	Horizontal	Pass
5	10144.388	51.84	0.04	74.0	-22.16	Peak	106.00	200	Horizontal	Pass
5**	10144.388	42.80	0.04	54.0	-11.20	AV	106.00	200	Horizontal	Pass
6	17208.037	51.37	1.55	74.0	-22.63	Peak	0.00	200	Horizontal	Pass
6**	17208.037	43.30	1.55	54.0	-10.70	AV	0.00	200	Horizontal	Pass

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

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1327.100	42.28	-17.21	74.0	-31.72	Peak	360.00	300	Vertical	Pass
1**	1327.100	29.97	-17.21	54.0	-24.03	AV	360.00	300	Vertical	Pass
2	2480.200	92.86	-12.20	74.0	18.86	Peak	188.00	100	Vertical	N/A
2**	2480.200	91.40	-12.20	54.0	37.40	AV	188.00	100	Vertical	N/A
3	4832.400	51.60	-3.22	74.0	-22.40	Peak	302.00	100	Vertical	Pass
3**	4832.400	41.35	-3.22	54.0	-12.65	AV	302.00	100	Vertical	Pass
4	6604.200	54.67	1.80	74.0	-19.33	Peak	86.00	100	Vertical	Pass
4**	6604.200	46.53	1.80	54.0	-7.47	AV	86.00	100	Vertical	Pass
5	12722.400	51.40	1.20	74.0	-22.60	Peak	123.00	200	Vertical	Pass
5**	12722.400	41.77	1.20	54.0	-12.23	AV	123.00	200	Vertical	Pass
6	17194.125	51.90	2.21	74.0	-22.10	Peak	127.00	300	Vertical	Pass
6**	17194.125	44.39	2.21	54.0	-9.61	AV	127.00	300	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.

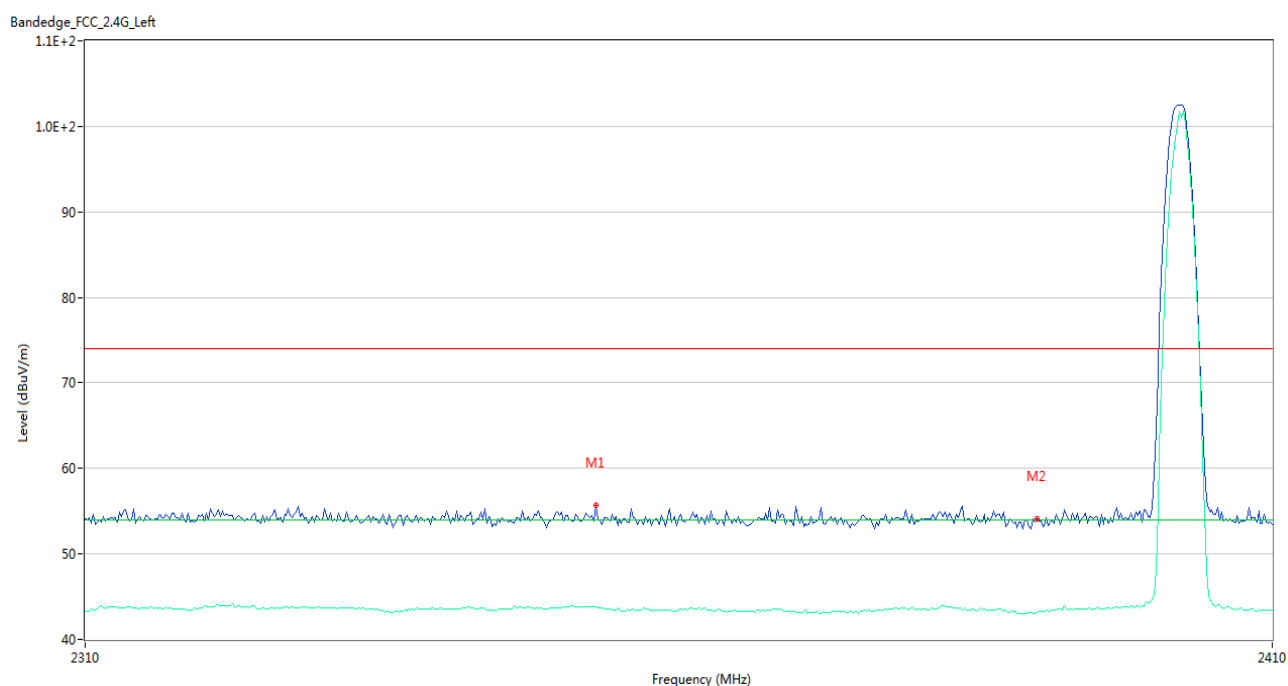
Note ²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

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.

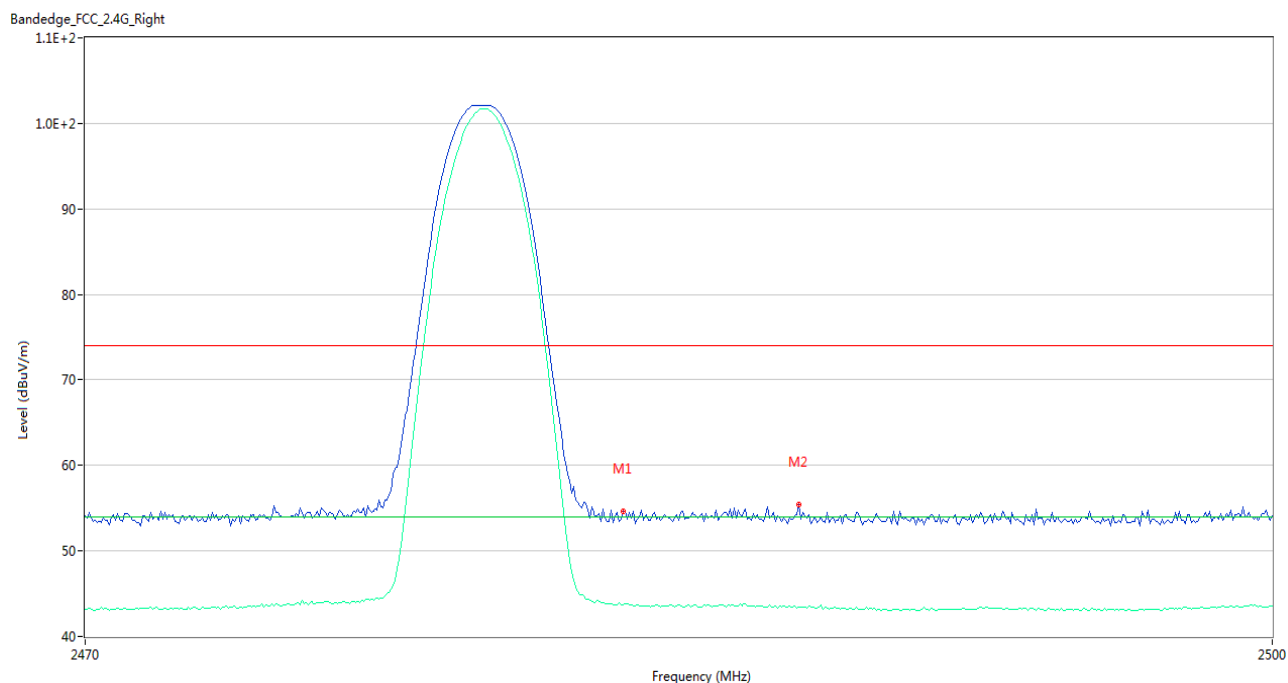
Test Data and Plots

GFSK LOW CHANNEL



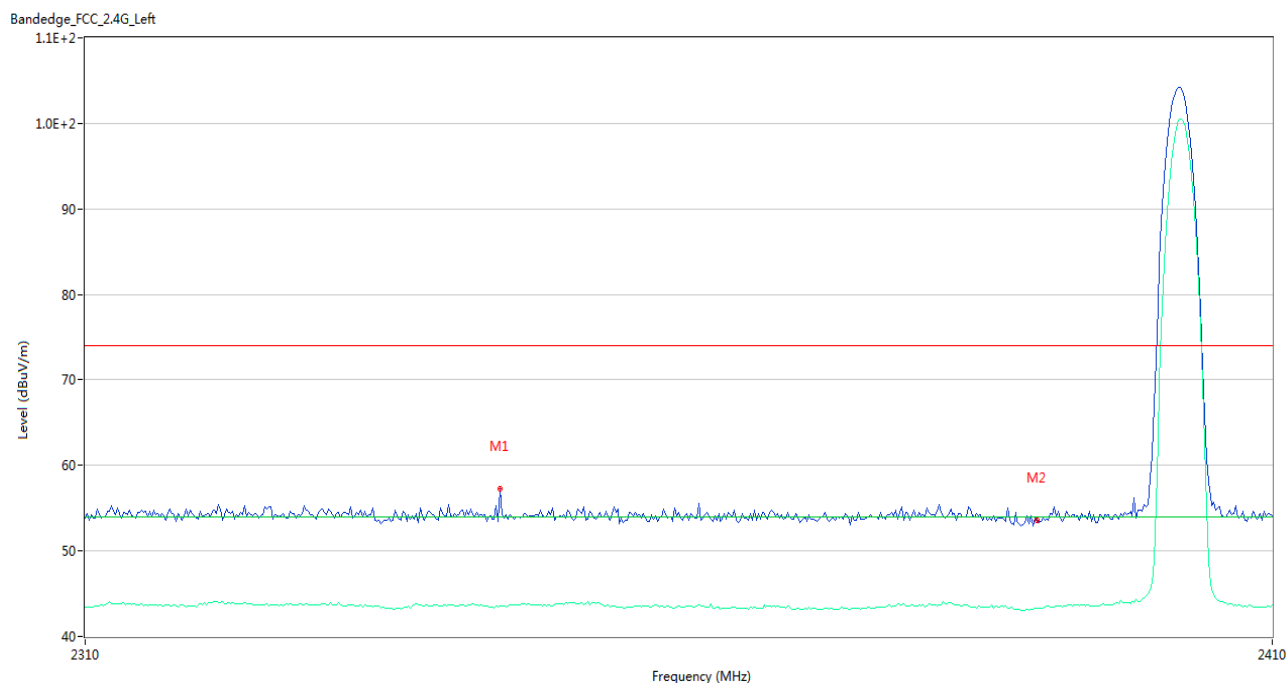
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2352.500	55.70	-0.19	74.0	-18.30	Peak	333.00	200	Horizontal	Pass
1**	2352.500	43.78	-0.19	54.0	-10.22	AV	333.00	200	Horizontal	Pass
2	2389.833	54.11	-0.62	74.0	-19.89	Peak	358.00	100	Horizontal	Pass
2**	2389.833	43.22	-0.62	54.0	-10.78	AV	358.00	100	Horizontal	Pass

GFSK HIGH CHANNEL



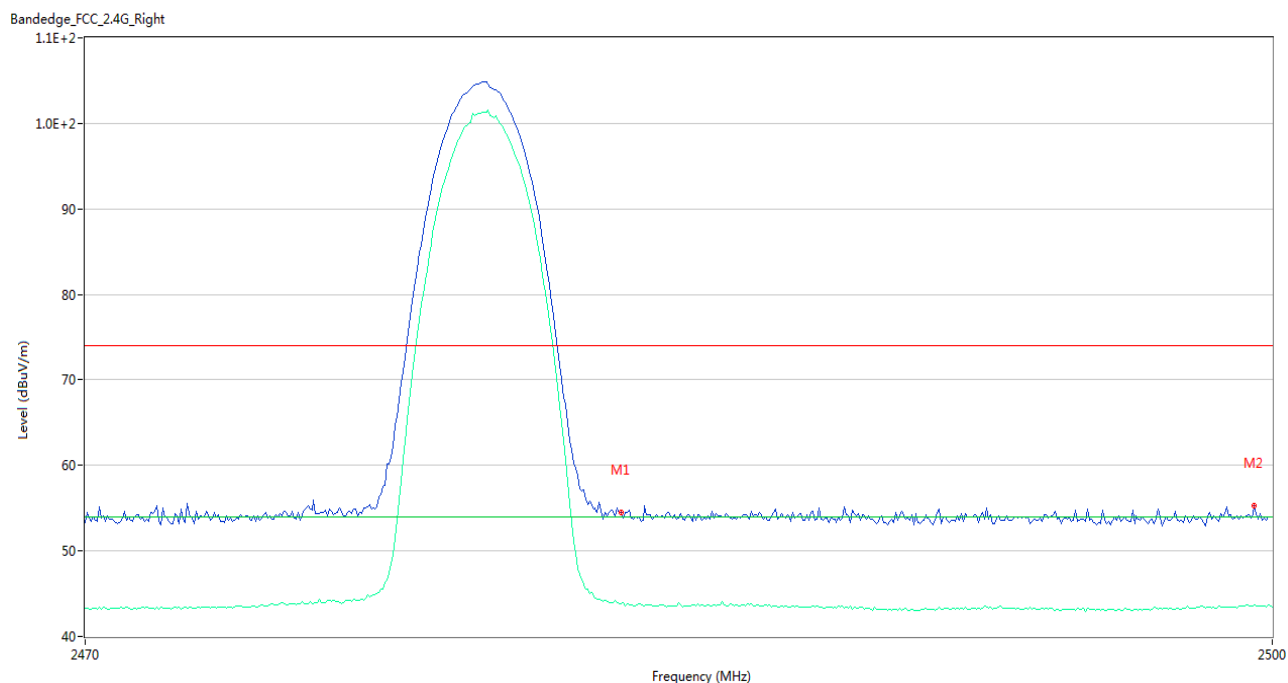
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	54.59	-0.20	74.0	-19.41	Peak	197.00	200	Horizontal	Pass
1**	2483.550	43.67	-0.20	54.0	-10.33	AV	197.00	200	Horizontal	Pass
2	2488.000	55.43	-0.01	74.0	-18.57	Peak	225.00	150	Horizontal	Pass
2**	2488.000	43.40	-0.01	54.0	-10.60	AV	225.00	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	2344.500	57.26	-0.52	74.0	-16.74	Peak	237.00	200	Horizontal	Pass
1**	2344.500	43.56	-0.52	54.0	-10.44	AV	237.00	200	Horizontal	Pass
2	2389.833	53.57	-0.62	74.0	-20.43	Peak	175.00	200	Horizontal	Pass
2**	2389.833	43.27	-0.62	54.0	-10.73	AV	175.00	200	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	54.57	-0.21	74.0	-19.43	Peak	221.00	100	Horizontal	Pass
1**	2483.500	43.83	-0.21	54.0	-10.17	AV	221.00	100	Horizontal	Pass
2	2499.550	55.29	0.39	74.0	-18.71	Peak	293.00	200	Horizontal	Pass
2**	2499.550	43.64	0.39	54.0	-10.36	AV	293.00	200	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2280207-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2280207-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2280207-AI.PDF”.

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