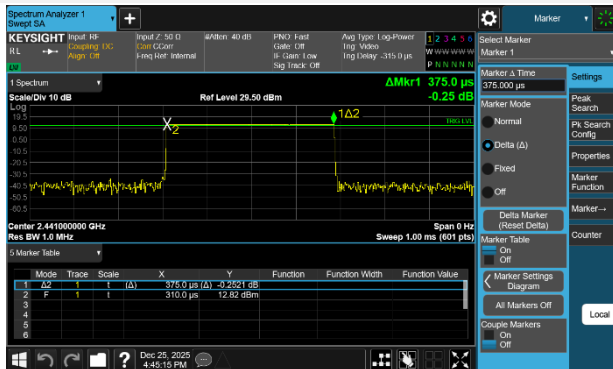
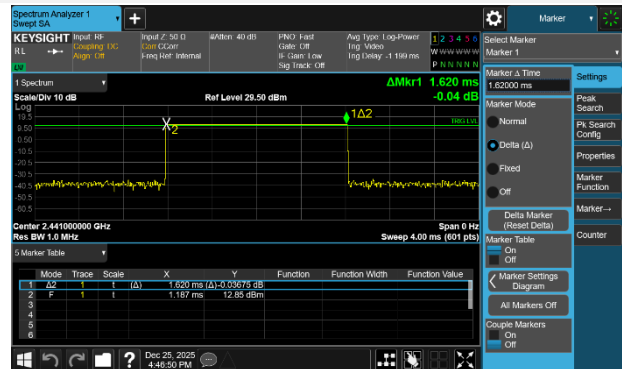


Test Plots

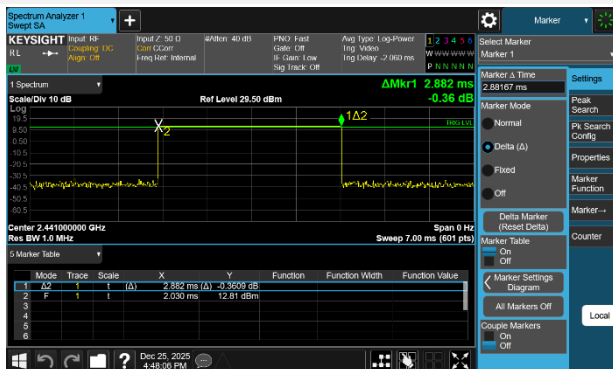
GFSK DH1



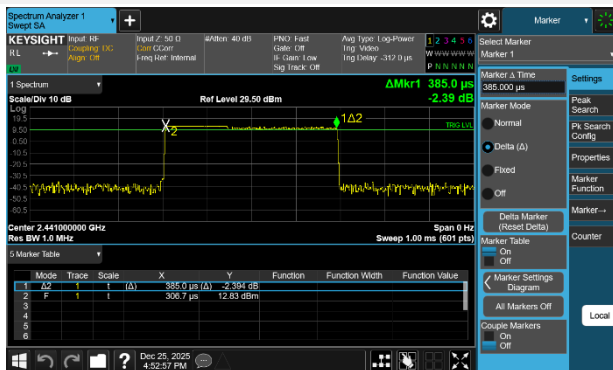
GFSK DH3



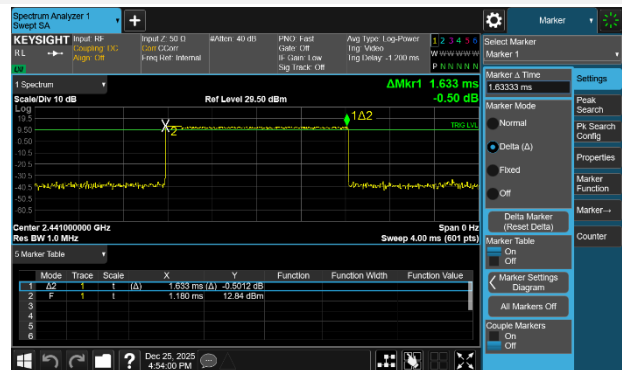
GFSK DH5



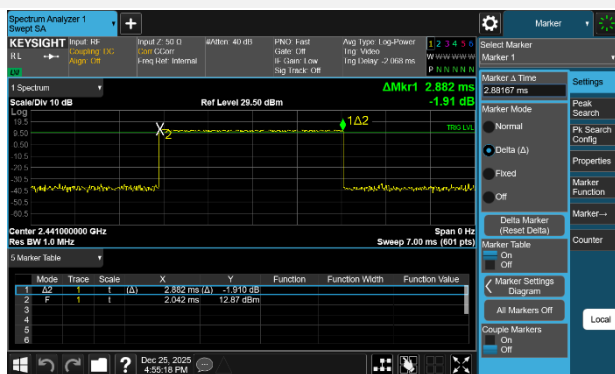
8-DPSK DH1



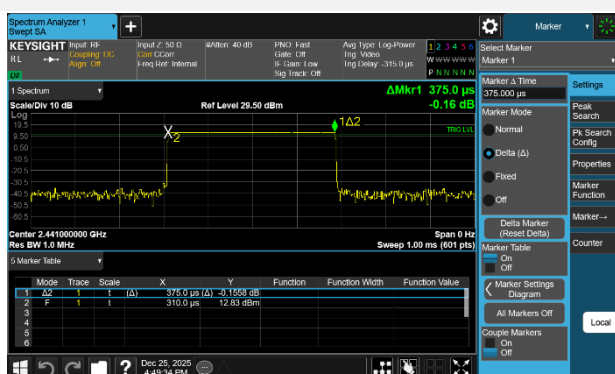
8-DPSK DH3



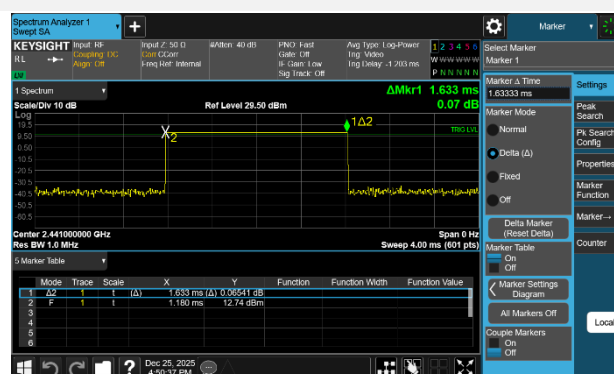
8-DPSK DH5



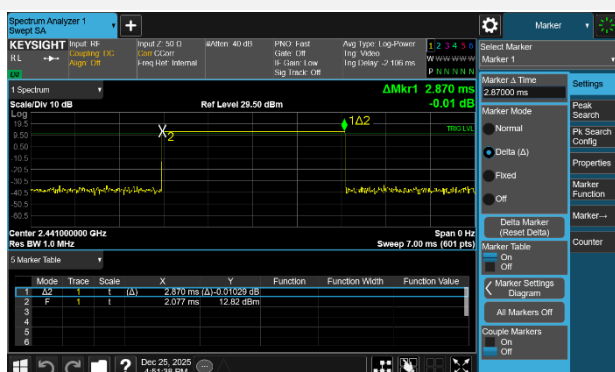
AFH Mode DH1



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	-36.46	13.09	-6.91	Pass
Middle	-36.80	12.83	-7.17	Pass
High	-36.66	11.99	-8.01	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-36.42	12.18	-7.82	Pass
Middle	-36.36	12.79	-7.21	Pass
High	-35.75	11.06	-8.94	Pass
Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-36.92	12.48	-7.52	Pass
8-DPSK	-36.15	12.79	-7.21	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

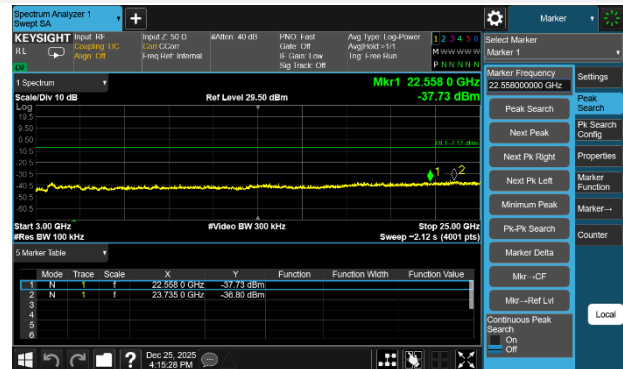
GFSK MIDDLE CHANNEL, CARRIER LEVEL



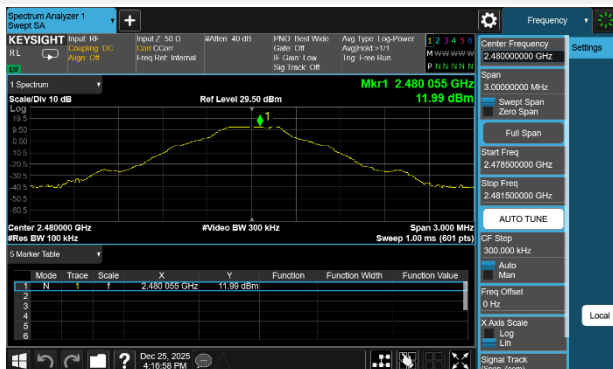
GFSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



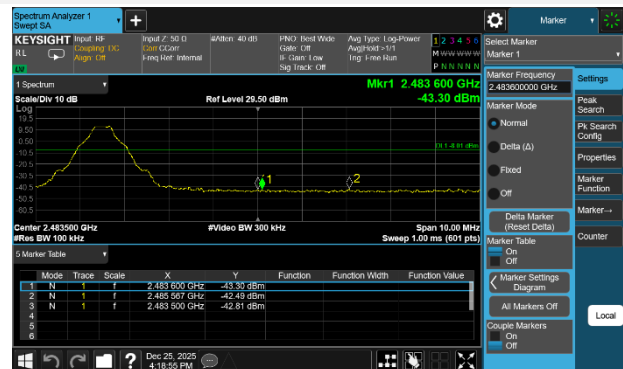
GFSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



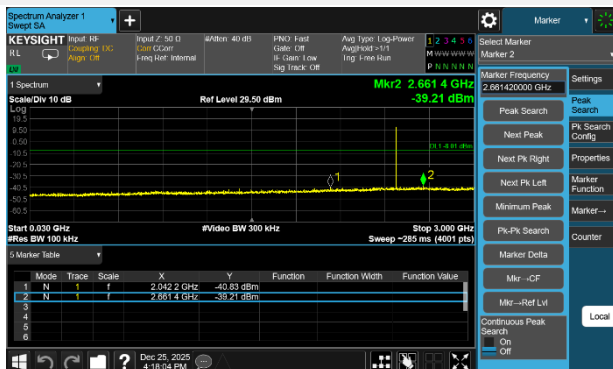
GFSK HIGH CHANNEL, CARRIER LEVEL



GFSK HIGH CHANNEL, BAND EDGE



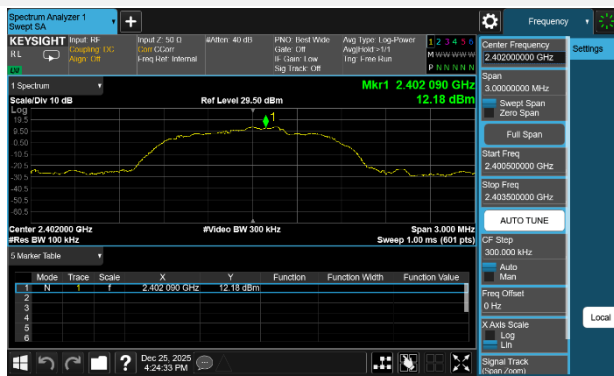
GFSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



GFSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



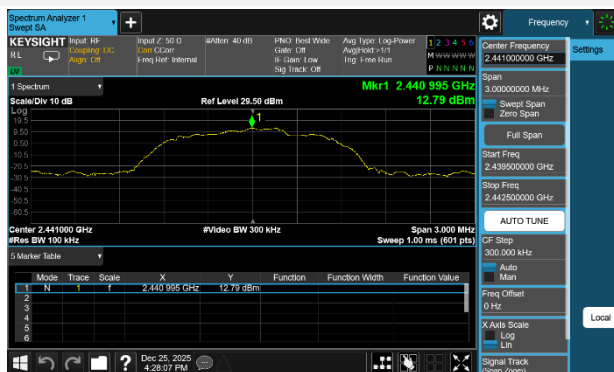
8-DPSK LOW CHANNEL, CARRIER LEVEL



8-DPSK LOW CHANNEL, BAND EDGE

8-DPSK LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz8-DPSK LOW CHANNEL, SPURIOUS
3 GHz ~ 25 GHz

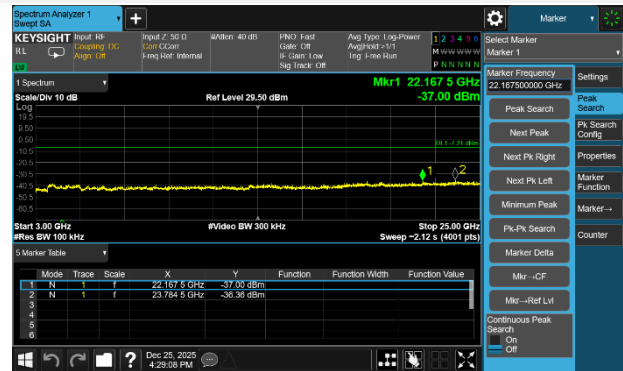
8-DPSK MIDDLE CHANNEL, CARRIER LEVEL



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



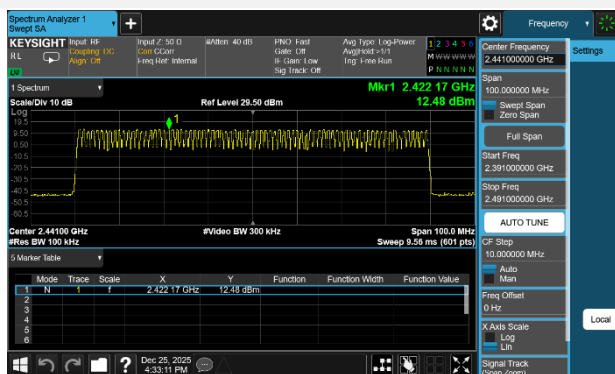
8-DPSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



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



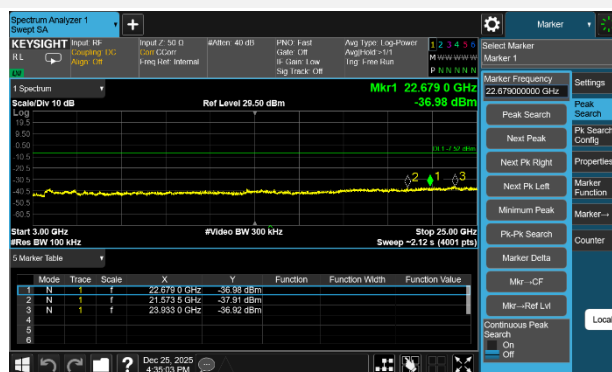
GFSK HOPPING, CARRIER LEVEL



GFSK HOPPING BAND EDGE (LOW)



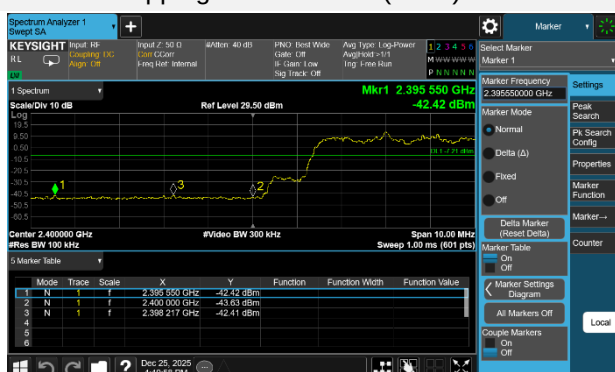
GFSK HOPPING BAND EDGE (HIGH)

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

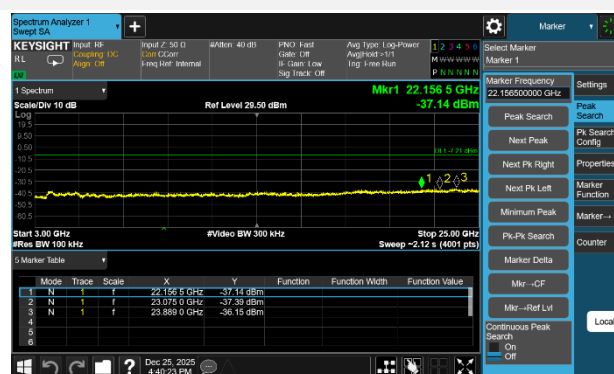
8-DPSK HOPPING, CARRIER LEVEL



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 Emission

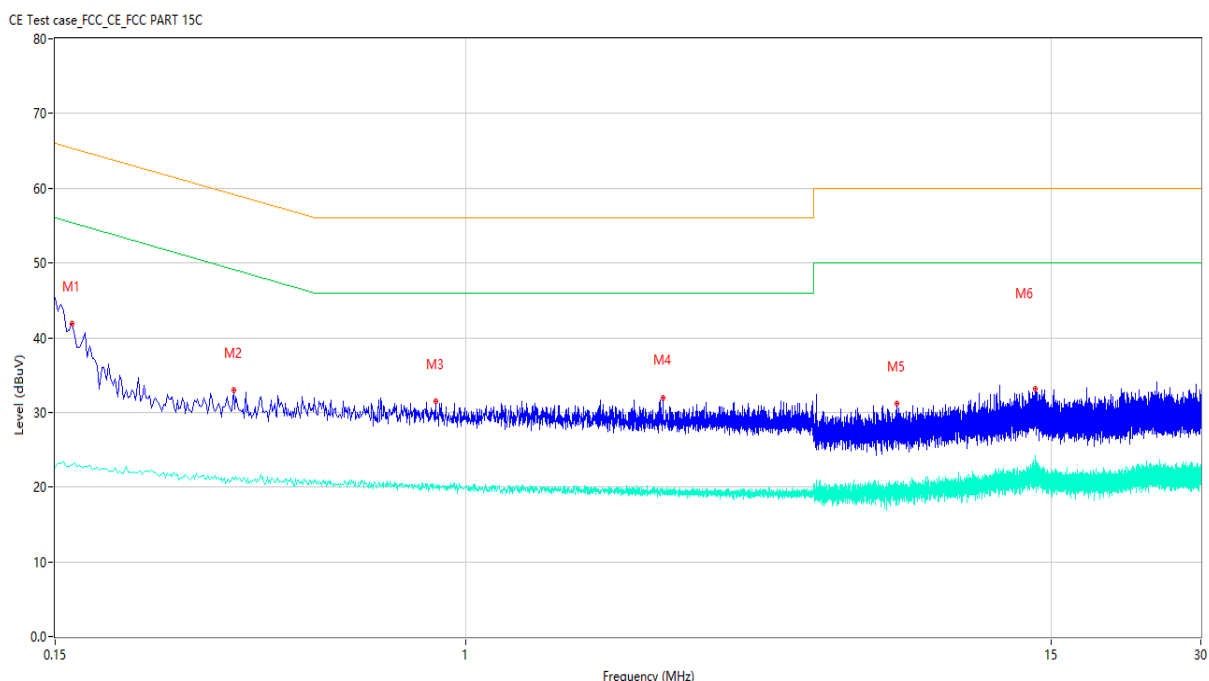
Note 1: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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

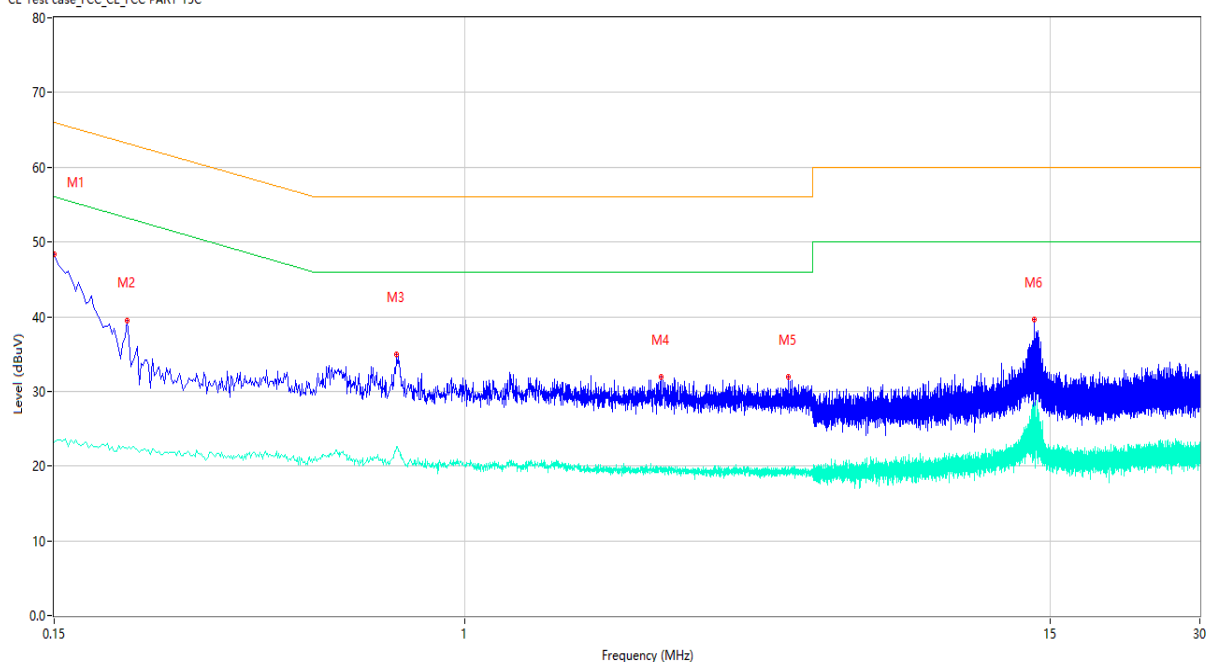
PHASE L



No.	Frequency (MHz)	Results (dBUV)	Factor (dB)	Limit (dBUV)	Margin (dB)	Detector	Line	Verdict
1	0.162	41.88	10.07	65.36	23.48	Peak	L	Pass
1**	0.162	23.09	10.07	55.36	32.27	AV	L	Pass
2	0.342	33.03	10.13	59.15	26.12	Peak	L	Pass
2**	0.342	21.30	10.13	49.15	27.85	AV	L	Pass
3	0.872	31.51	10.20	56.00	24.49	Peak	L	Pass
3**	0.872	19.96	10.20	46.00	26.04	AV	L	Pass
4	2.496	32.01	10.37	56.00	23.99	Peak	L	Pass
4**	2.496	19.19	10.37	46.00	26.81	AV	L	Pass
5	7.348	31.14	10.74	60.00	28.86	Peak	L	Pass
5**	7.348	20.00	10.74	50.00	30.00	AV	L	Pass
6	13.952	33.08	11.13	60.00	26.92	Peak	L	Pass
6**	13.952	22.00	11.13	50.00	28.00	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.150	48.38	10.05	66.00	17.62	Peak	N	Pass
1**	0.150	23.21	10.05	56.00	32.79	AV	N	Pass
2	0.210	39.51	10.12	63.21	23.70	Peak	N	Pass
2**	0.210	22.34	10.12	53.21	30.87	AV	N	Pass
3	0.732	34.94	10.23	56.00	21.06	Peak	N	Pass
3**	0.732	22.55	10.23	46.00	23.45	AV	N	Pass
4	2.480	31.97	10.37	56.00	24.03	Peak	N	Pass
4**	2.480	19.38	10.37	46.00	26.62	AV	N	Pass
5	4.470	31.93	10.43	56.00	24.07	Peak	N	Pass
5**	4.470	19.57	10.43	46.00	26.43	AV	N	Pass
6	13.948	39.62	11.13	60.00	20.38	Peak	N	Pass
6**	13.948	28.41	11.13	50.00	21.59	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 C63.10-2020, 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.

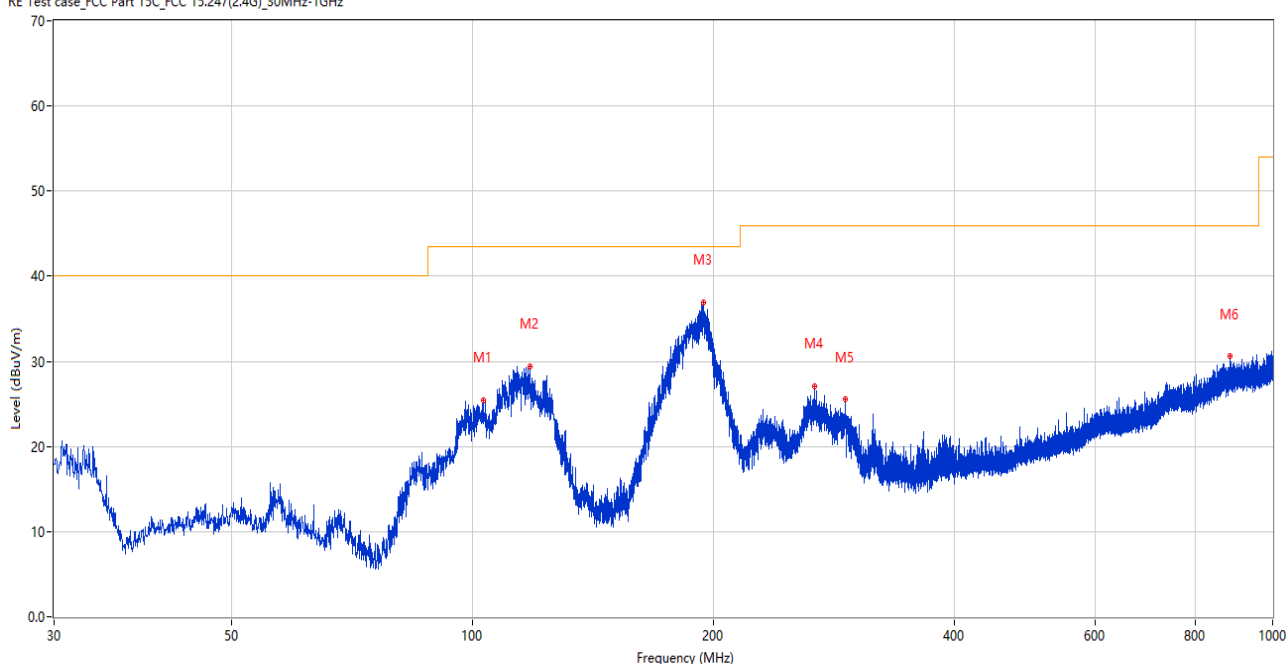
Note 4: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Note 5: 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

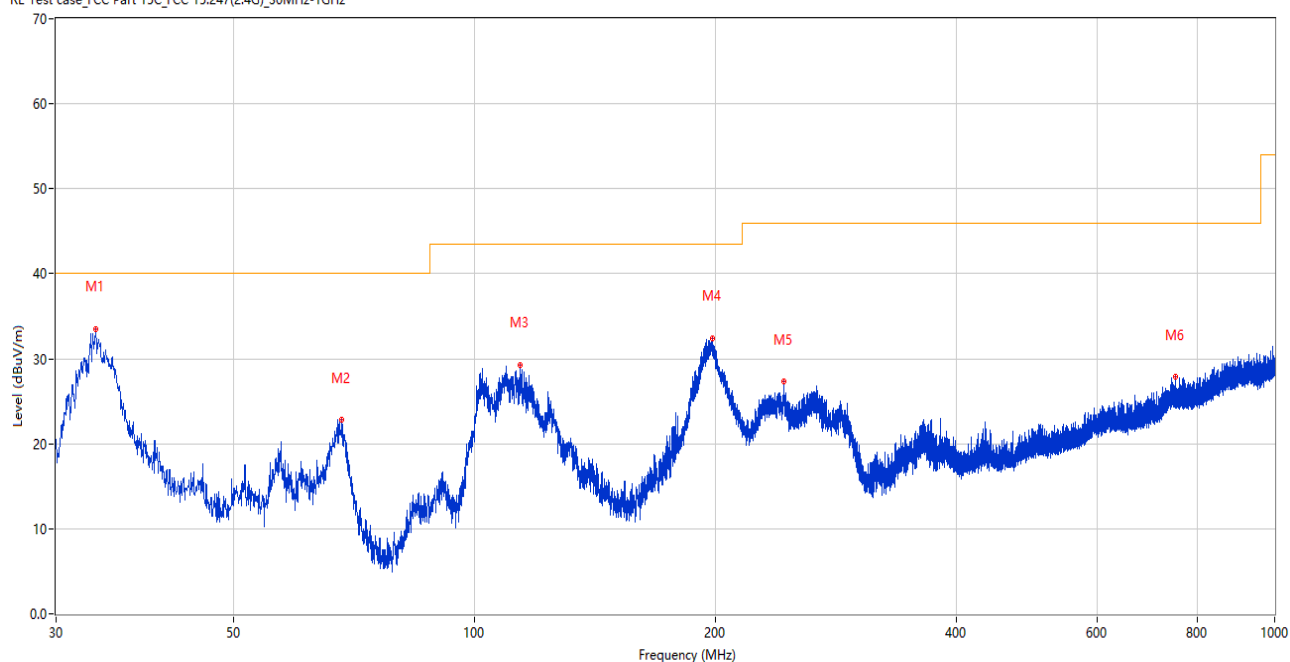
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	103.138	25.46	-26.11	43.5	18.04	Peak	112.00	200	Horizontal	Pass
2	118.027	29.46	-27.85	43.5	14.04	Peak	95.00	200	Horizontal	Pass
3	194.609	36.91	-25.63	43.5	6.59	Peak	251.00	100	Horizontal	Pass
4	267.941	27.07	-24.10	46.0	18.93	Peak	185.00	200	Horizontal	Pass
5	292.724	25.55	-23.19	46.0	20.45	Peak	346.00	200	Horizontal	Pass
6	883.309	30.61	-9.78	46.0	15.39	Peak	168.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz

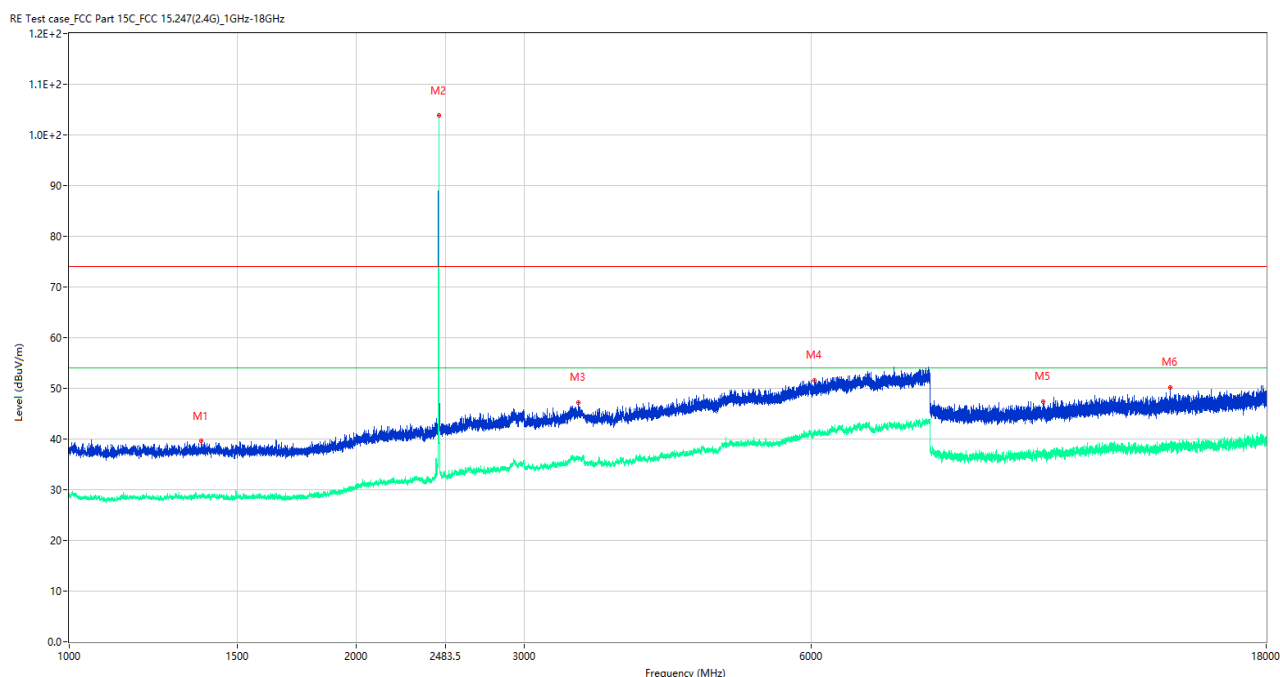


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	33.589	33.53	-28.25	40.0	6.47	Peak	1.00	100	Vertical	Pass
2	68.315	22.80	-28.42	40.0	17.20	Peak	234.00	200	Vertical	Pass
3	113.953	29.26	-27.13	43.5	14.24	Peak	299.00	100	Vertical	Pass
4	198.344	32.43	-25.66	43.5	11.07	Peak	159.00	100	Vertical	Pass
5	243.691	27.33	-24.28	46.0	18.67	Peak	209.00	100	Vertical	Pass
6	752.505	27.84	-11.99	46.0	18.16	Peak	0.00	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.

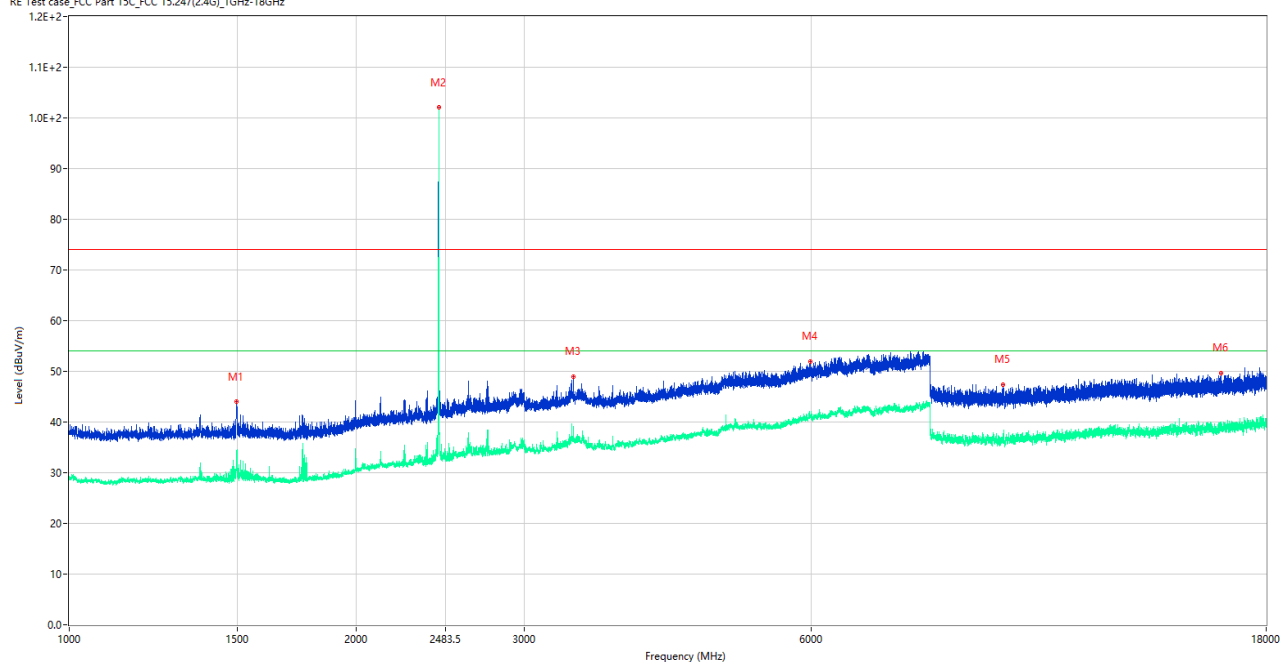
GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1374.500	39.60	-16.00	74.0	34.40	Peak	319.00	150	Horizontal	Pass
1**	1374.500	28.72	-16.00	54.0	25.28	AV	319.00	150	Horizontal	Pass
2	2440.750	103.84	-12.38	74.0	-29.84	Peak	178.00	150	Horizontal	N/A
2**	2440.750	100.81	-12.38	54.0	-46.81	AV	178.00	150	Horizontal	N/A
3	3417.000	47.20	-5.12	74.0	26.80	Peak	89.00	150	Horizontal	Pass
3**	3417.000	35.76	-5.12	54.0	18.24	AV	89.00	150	Horizontal	Pass
4	6052.500	51.63	-0.38	74.0	22.37	Peak	118.00	150	Horizontal	Pass
4**	6052.500	41.36	-0.38	54.0	12.64	AV	118.00	150	Horizontal	Pass
5	10496.000	47.45	-3.26	74.0	26.55	Peak	349.00	150	Horizontal	Pass
5**	10496.000	37.13	-3.26	54.0	16.87	AV	349.00	150	Horizontal	Pass
6	14269.500	50.23	-2.35	74.0	23.77	Peak	264.00	150	Horizontal	Pass
6**	14269.500	38.35	-2.35	54.0	15.65	AV	264.00	150	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

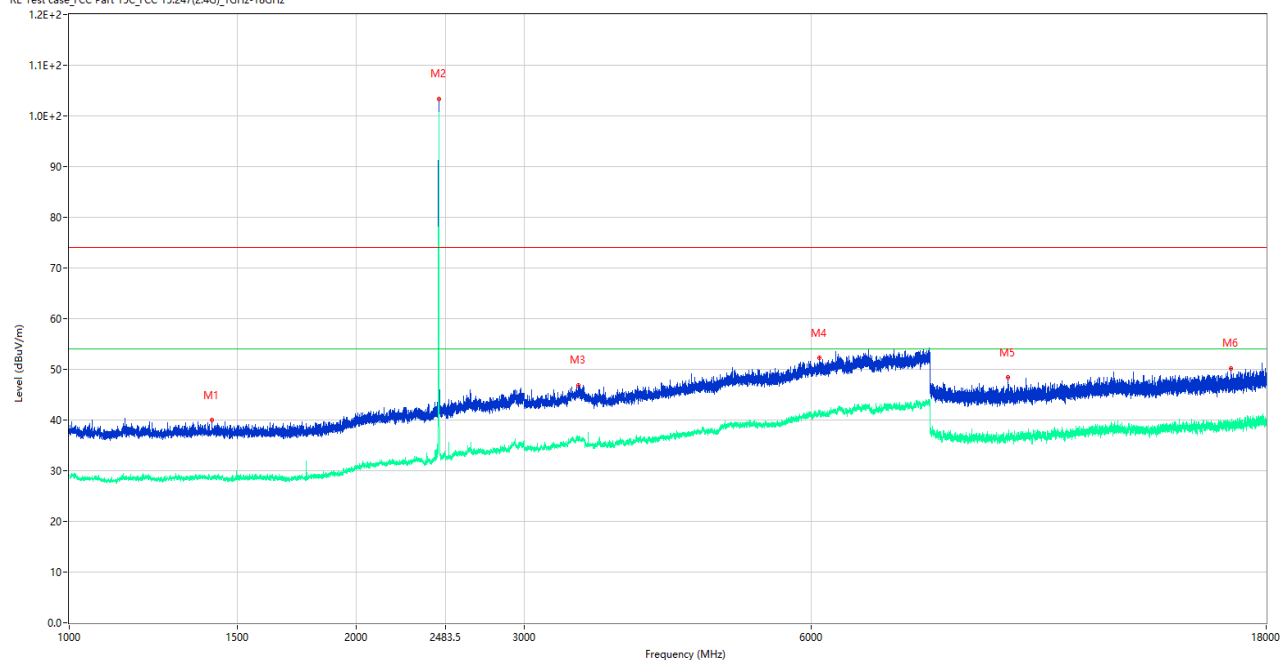
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1496.750	44.02	-16.16	74.0	29.98	Peak	357.00	150	Vertical	Pass
1**	1496.750	31.95	-16.16	54.0	22.05	AV	357.00	150	Vertical	Pass
2	2441.000	102.08	-12.39	74.0	-28.08	Peak	45.00	150	Vertical	N/A
2**	2441.000	101.22	-12.39	54.0	-47.22	AV	45.00	150	Vertical	N/A
3	3377.000	49.02	-4.92	74.0	24.98	Peak	31.00	150	Vertical	Pass
3**	3377.000	38.19	-4.92	54.0	15.81	AV	31.00	150	Vertical	Pass
4	5991.000	51.94	-0.11	74.0	22.06	Peak	40.00	150	Vertical	Pass
4**	5991.000	40.81	-0.11	54.0	13.19	AV	40.00	150	Vertical	Pass
5	9542.500	47.42	-2.87	74.0	26.58	Peak	155.00	150	Vertical	Pass
5**	9542.500	36.88	-2.87	54.0	17.12	AV	155.00	150	Vertical	Pass
6	16140.000	49.63	-1.42	74.0	24.37	Peak	270.00	150	Vertical	Pass
6**	16140.000	38.91	-1.42	54.0	15.09	AV	270.00	150	Vertical	Pass

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

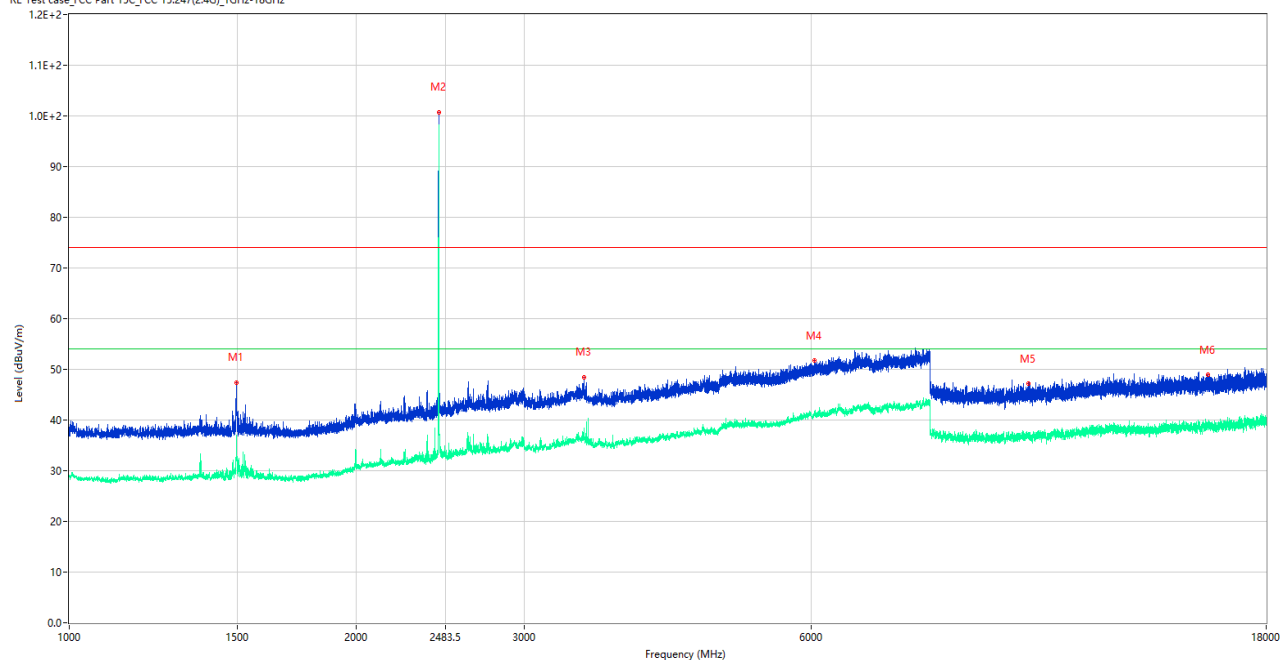
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1410.500	39.91	-15.98	74.0	34.09	Peak	127.00	150	Horizontal	Pass
1**	1410.500	28.38	-15.98	54.0	25.62	AV	127.00	150	Horizontal	Pass
2	2441.000	103.37	-12.39	74.0	-29.37	Peak	179.00	150	Horizontal	N/A
2**	2441.000	99.85	-12.39	54.0	-45.85	AV	179.00	150	Horizontal	N/A
3	3421.500	46.76	-4.93	74.0	27.24	Peak	0.00	150	Horizontal	Pass
3**	3421.500	36.40	-4.93	54.0	17.60	AV	0.00	150	Horizontal	Pass
4	6120.500	52.26	-0.10	74.0	21.74	Peak	80.00	150	Horizontal	Pass
4**	6120.500	41.81	-0.10	54.0	12.19	AV	80.00	150	Horizontal	Pass
5	9657.500	48.35	-3.21	74.0	25.65	Peak	360.00	150	Horizontal	Pass
5**	9657.500	37.19	-3.21	54.0	16.81	AV	360.00	150	Horizontal	Pass
6	16528.000	50.25	-1.63	74.0	23.75	Peak	29.00	150	Horizontal	Pass
6**	16528.000	39.22	-1.63	54.0	14.78	AV	29.00	150	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)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1496.500	47.32	-16.17	74.0	26.68	Peak	339.00	150	Vertical	Pass
1**	1496.500	37.02	-16.17	54.0	16.98	AV	339.00	150	Vertical	Pass
2	2441.000	100.72	-12.39	74.0	-26.72	Peak	35.00	150	Vertical	N/A
2**	2441.000	97.14	-12.39	54.0	-43.14	AV	35.00	150	Vertical	N/A
3	3464.500	48.36	-5.08	74.0	25.64	Peak	360.00	150	Vertical	Pass
3**	3464.500	37.94	-5.08	54.0	16.06	AV	360.00	150	Vertical	Pass
4	6050.000	51.82	-0.41	74.0	22.18	Peak	2.00	150	Vertical	Pass
4**	6050.000	40.99	-0.41	54.0	13.01	AV	2.00	150	Vertical	Pass
5	10133.500	47.17	-3.93	74.0	26.83	Peak	66.00	150	Vertical	Pass
5**	10133.500	37.00	-3.93	54.0	17.00	AV	66.00	150	Vertical	Pass
6	15631.000	48.93	-1.80	74.0	25.07	Peak	11.00	150	Vertical	Pass
6**	15631.000	38.92	-1.80	54.0	15.08	AV	11.00	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.

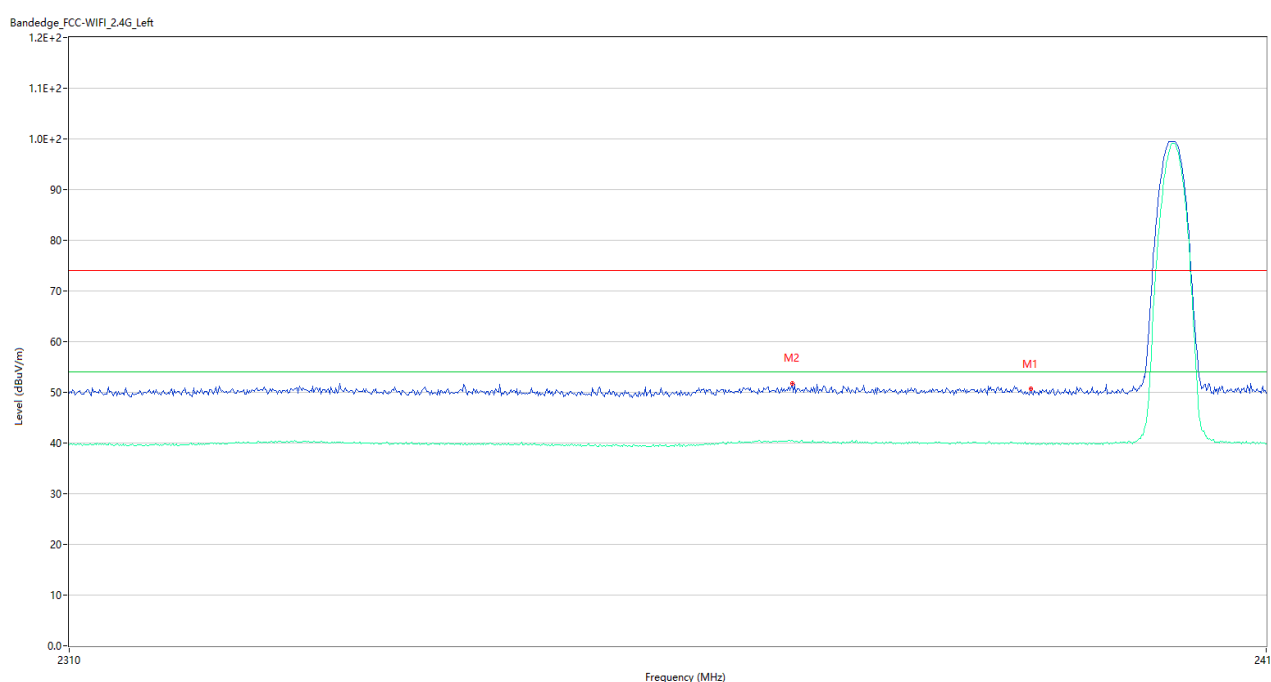
Note 2: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note 3: According the ANSI C63.10-2020, 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.

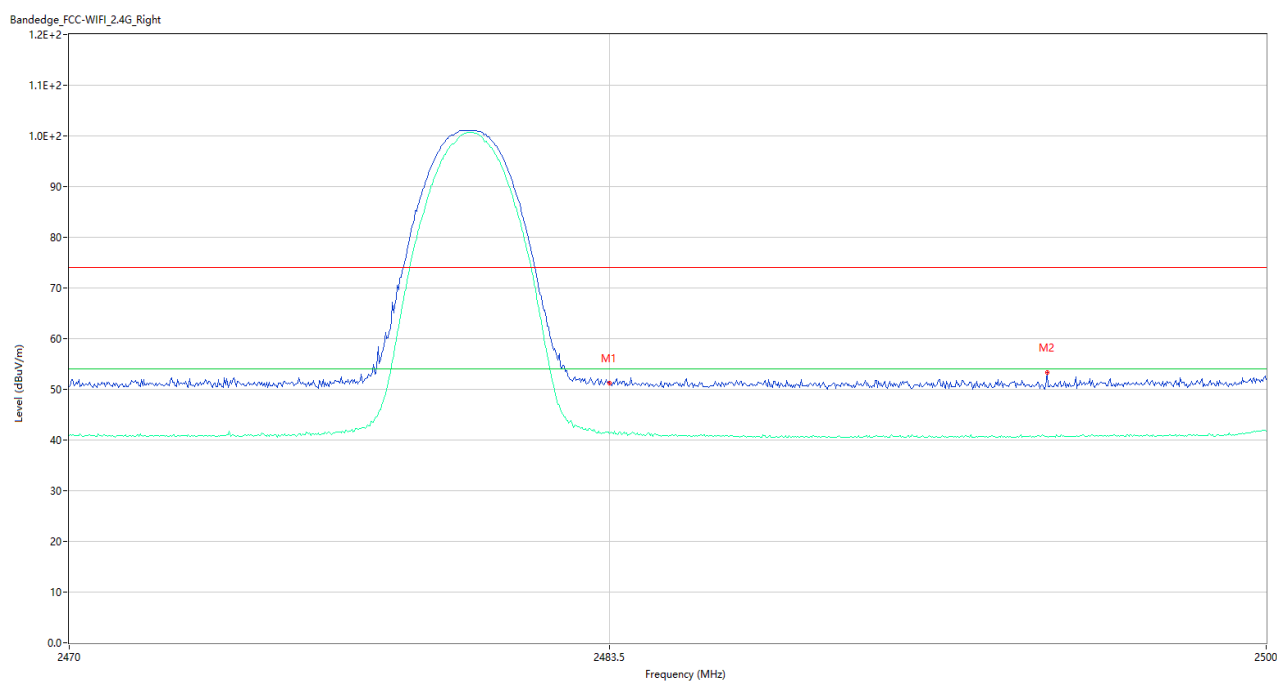
Test Data and Plots

GFSK LOW CHANNEL



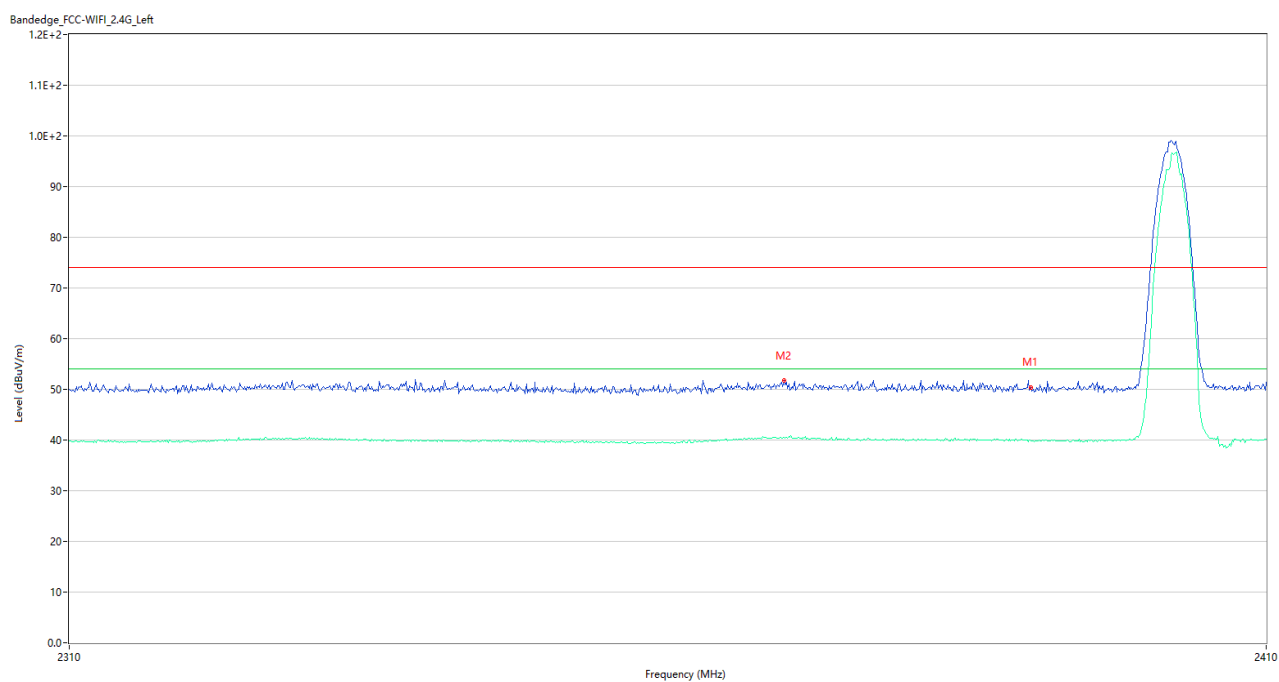
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	50.69	-4.87	74.0	23.31	Peak	0.25	150	Horizontal	Pass
1**	2390.000	39.79	-4.87	54.0	14.21	AV	0.25	150	Horizontal	Pass
2	2369.900	51.81	-4.01	74.0	22.19	Peak	166.00	150	Horizontal	Pass
2**	2369.900	40.46	-4.01	54.0	13.54	AV	166.00	150	Horizontal	Pass

GFSK HIGH CHANNEL



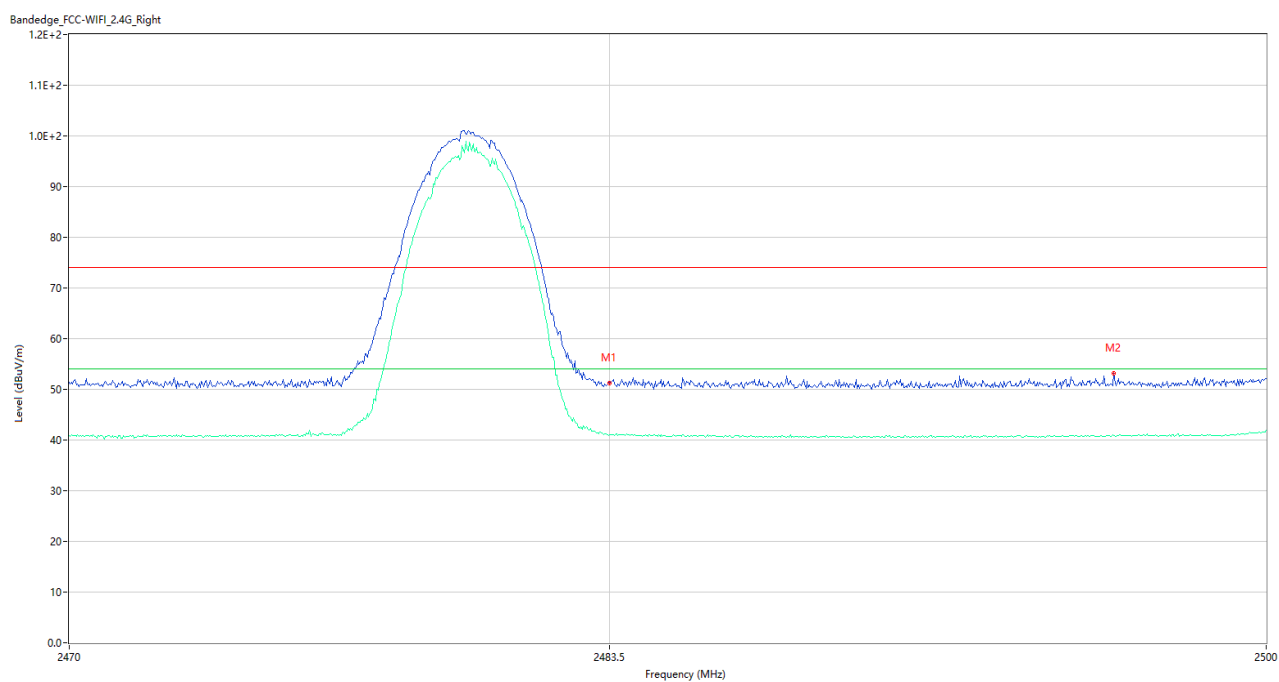
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	51.15	-3.78	74.0	22.85	Peak	0.00	150	Horizontal	Pass
1**	2483.500	41.26	-3.78	54.0	12.74	AV	0.00	150	Horizontal	Pass
2	2494.480	53.31	-3.92	74.0	20.69	Peak	172.00	150	Horizontal	Pass
2**	2494.480	40.65	-3.92	54.0	13.35	AV	172.00	150	Horizontal	Pass

8-DPSK LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	50.38	-4.87	74.0	23.62	Peak	150.10	150	Vertical	Pass
1**	2390.000	39.88	-4.87	54.0	14.12	AV	150.10	150	Vertical	Pass
2	2369.200	51.82	-4.09	74.0	22.18	Peak	87.00	150	Vertical	Pass
2**	2369.200	40.45	-4.09	54.0	13.55	AV	87.00	150	Vertical	Pass

8-DPSK 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	51.15	-3.78	74.0	22.85	Peak	360.00	150	Horizontal	Pass
1**	2483.500	41.04	-3.78	54.0	12.96	AV	360.00	150	Horizontal	Pass
2	2496.160	53.10	-3.94	74.0	20.90	Peak	233.00	150	Horizontal	Pass
2**	2496.160	40.93	-3.94	54.0	13.07	AV	233.00	150	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ25A1278-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ25A1278-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ25A1278-AI.PDF”.

Statement

1. The Testing Center 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. For the report with Accreditation Symbol, the items marked with "☆" are not within the accredited scope.
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--END OF REPORT--