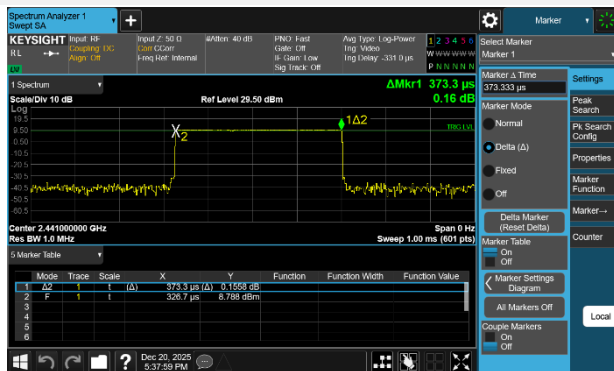
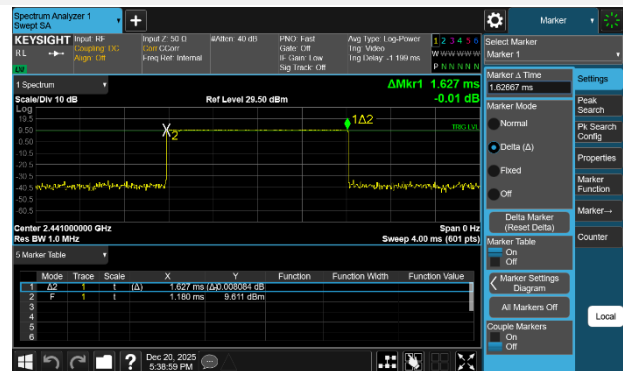


Test Plots

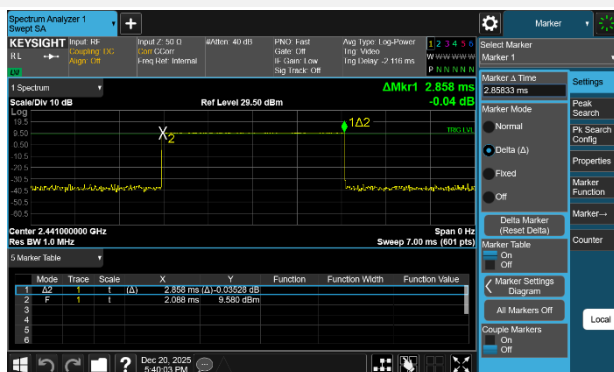
GFSK DH1



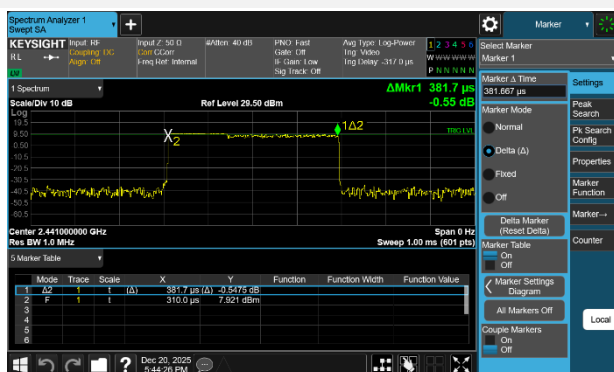
GFSK DH3



GFSK DH5



8-DPSK DH1



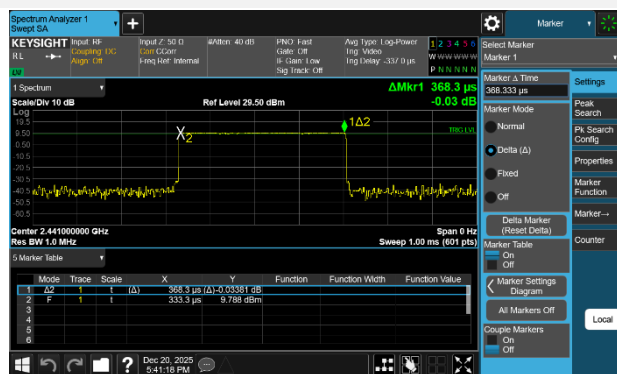
8-DPSK DH3



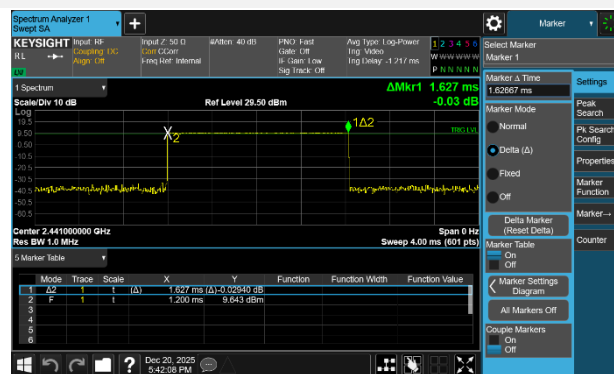
8-DPSK DH5



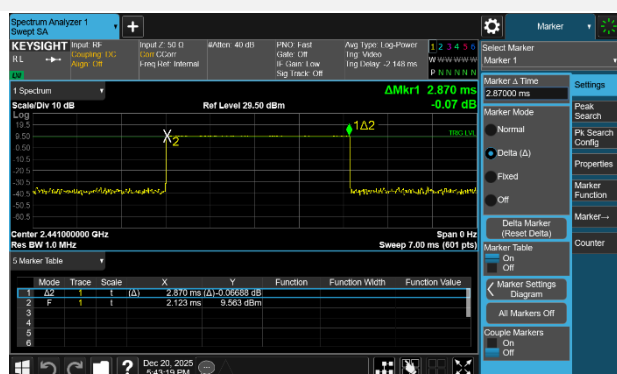
AFH Mode DH1



AFH Mode DH3



AFH Mode DH5



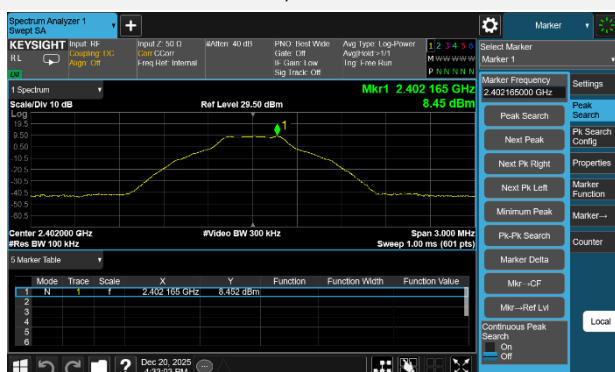
A.6 Conducted Spurious Emissions & Authorized-band band-edge

Test Data

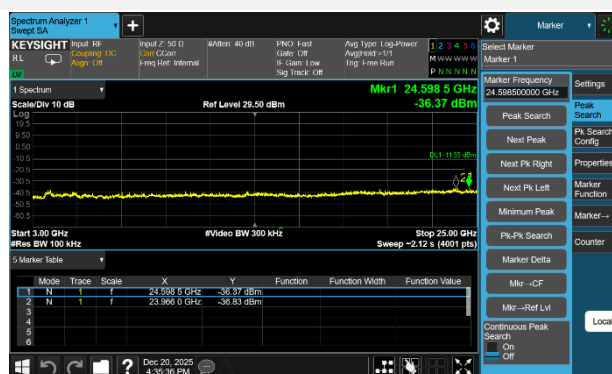
GFSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-36.37	8.45	-11.55	Pass
Middle	-35.45	9.21	-10.79	Pass
High	-36.49	10.88	-9.12	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-36.66	7.85	-12.15	Pass
Middle	-36.52	9.51	-10.49	Pass
High	-37.12	11.18	-8.82	Pass
Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-36.94	11.64	-8.36	Pass
8-DPSK	-37.18	11.44	-8.56	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



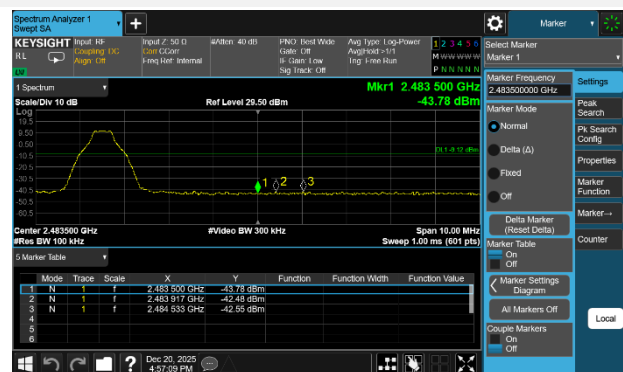
GFSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



GFSK HIGH CHANNEL, CARRIER LEVEL



GFSK HIGH CHANNEL, BAND EDGE



GFSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



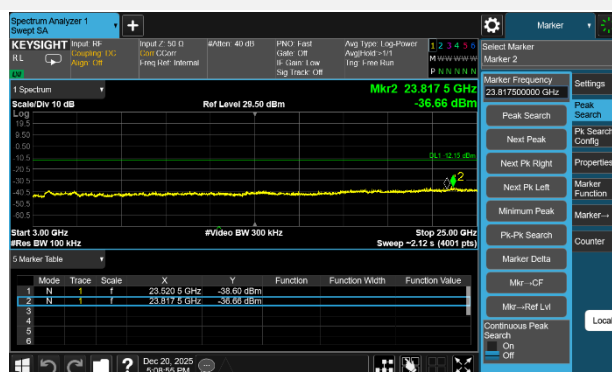
GFSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



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

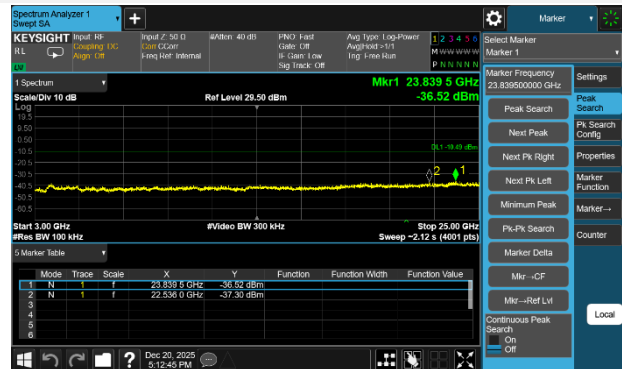
8-DPSK MIDDLE CHANNEL, CARRIER LEVEL



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



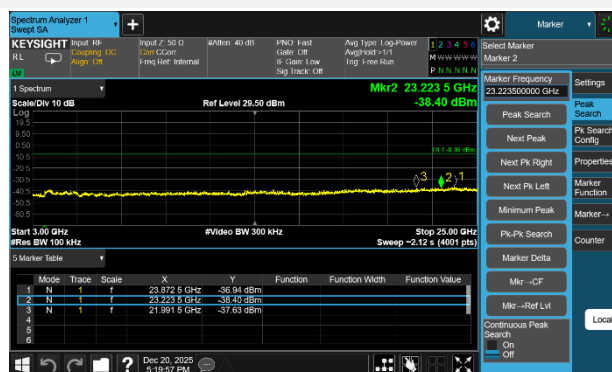
GFSK HOPPING, CARRIER LEVEL



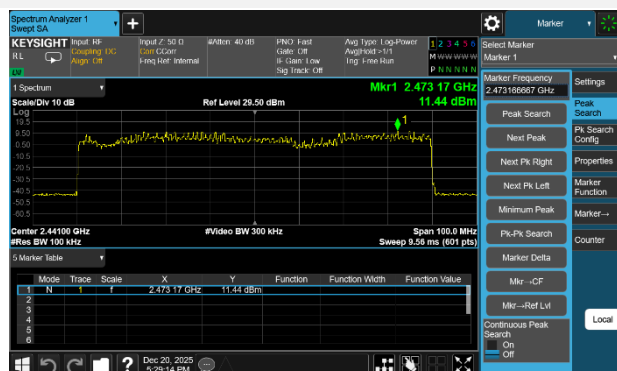
GFSK HOPPING BAND EDGE (LOW)



GFSK HOPPING BAND EDGE (HIGH)

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

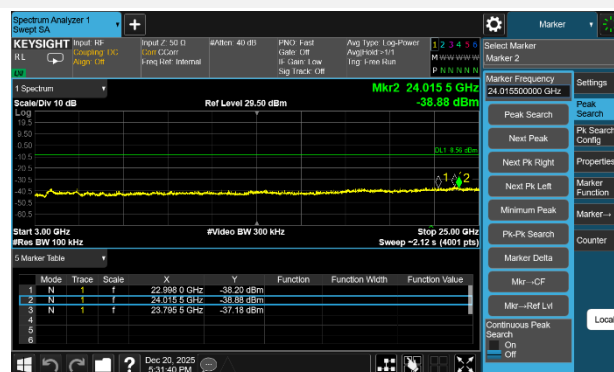
8-DPSK HOPPING, CARRIER LEVEL



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

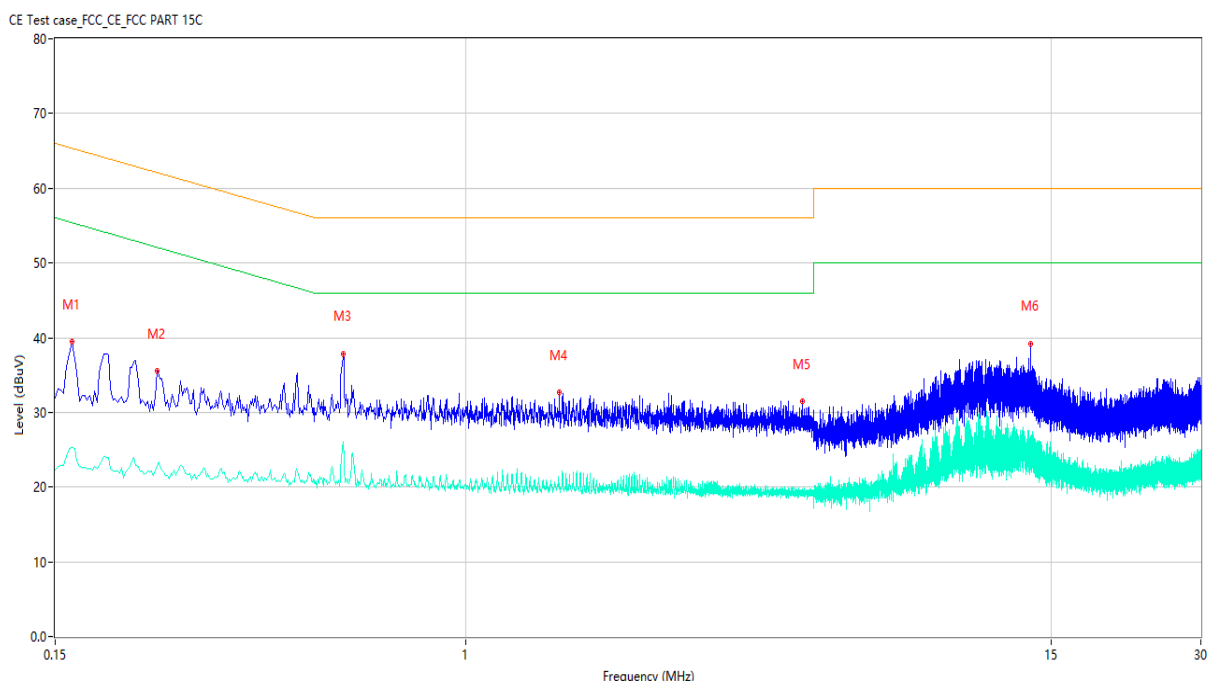
Note 1: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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

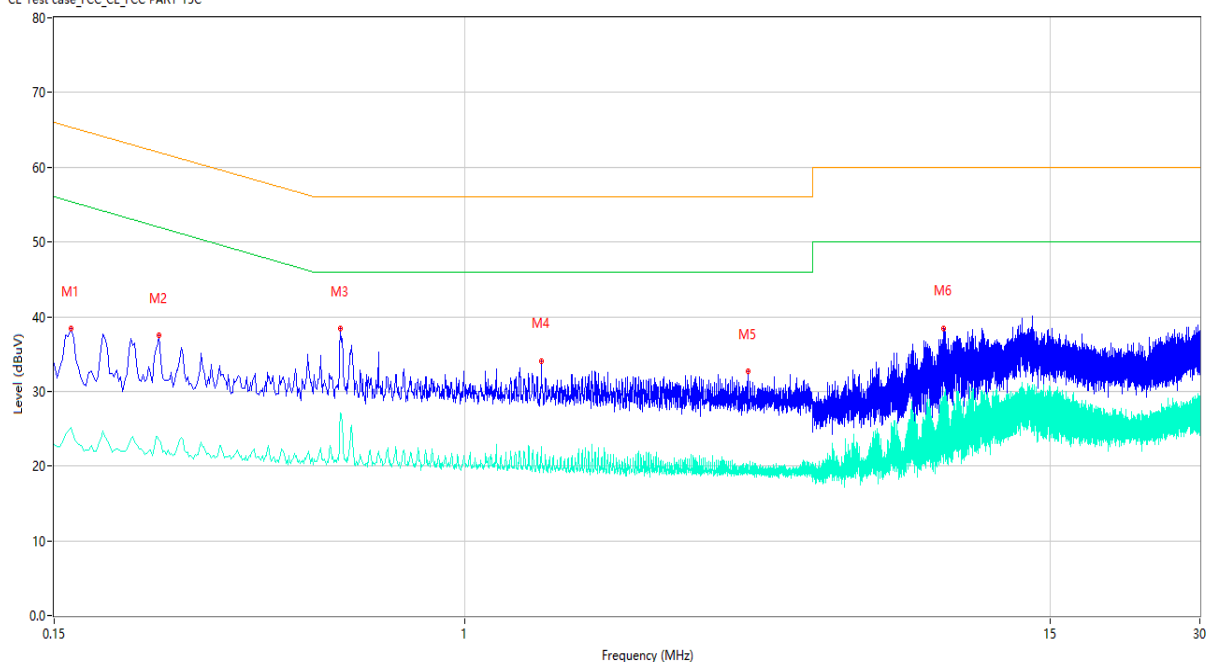
PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.162	39.42	10.07	65.36	25.94	Peak	L	Pass
1**	0.162	25.25	10.07	55.36	30.11	AV	L	Pass
2	0.240	35.56	10.12	62.10	26.54	Peak	L	Pass
2**	0.240	22.88	10.12	52.10	29.22	AV	L	Pass
3	0.568	37.87	10.18	56.00	18.13	Peak	L	Pass
3**	0.568	26.00	10.18	46.00	20.00	AV	L	Pass
4	1.546	32.72	10.28	56.00	23.28	Peak	L	Pass
4**	1.546	20.07	10.28	46.00	25.93	AV	L	Pass
5	4.756	31.48	10.44	56.00	24.52	Peak	L	Pass
5**	4.756	19.13	10.44	46.00	26.87	AV	L	Pass
6	13.650	39.24	11.12	60.00	20.76	Peak	L	Pass
6**	13.650	26.13	11.12	50.00	23.87	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	0.162	38.34	10.15	65.36	27.02	Peak	N	Pass
1**	0.162	25.09	10.15	55.36	30.27	AV	N	Pass
2	0.244	37.46	10.15	61.96	24.50	Peak	N	Pass
2**	0.244	23.54	10.15	51.96	28.42	AV	N	Pass
3	0.564	38.40	10.19	56.00	17.60	Peak	N	Pass
3**	0.564	27.15	10.19	46.00	18.85	AV	N	Pass
4	1.428	34.12	10.25	56.00	21.88	Peak	N	Pass
4**	1.428	22.56	10.25	46.00	23.44	AV	N	Pass
5	3.718	32.70	10.36	56.00	23.30	Peak	N	Pass
5**	3.718	20.05	10.36	46.00	25.95	AV	N	Pass
6	9.154	38.49	10.85	60.00	21.51	Peak	N	Pass
6**	9.154	28.48	10.85	50.00	21.52	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.

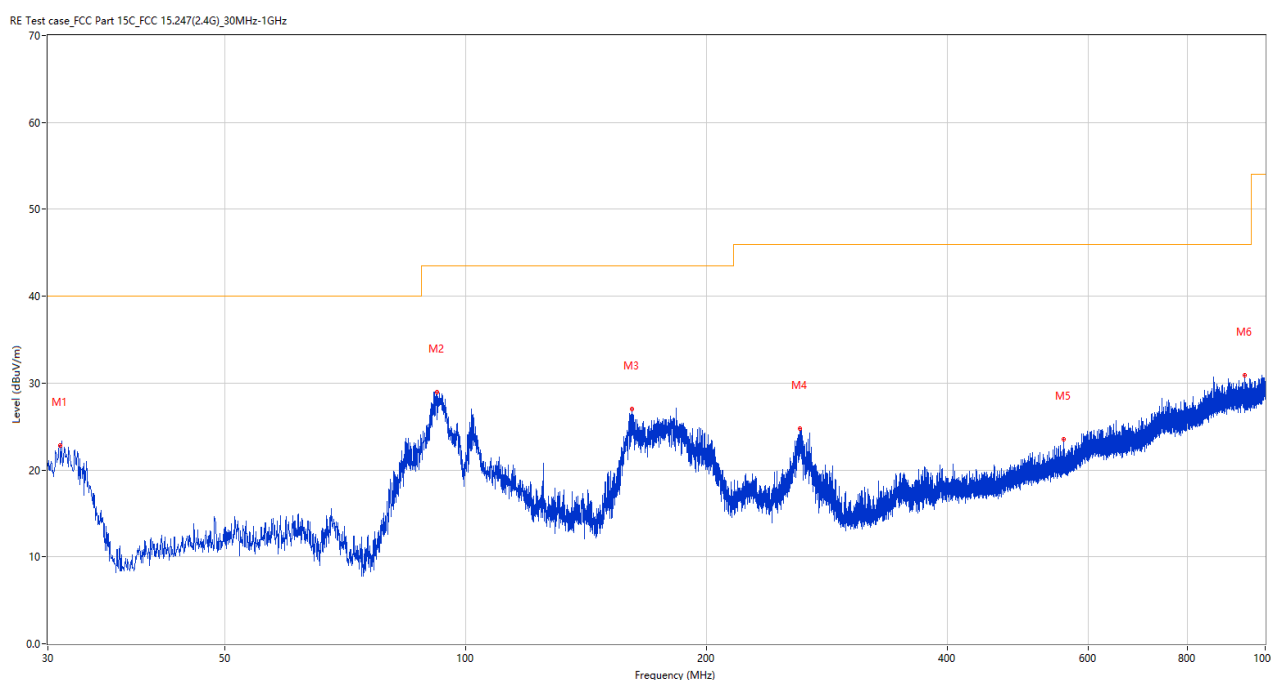
Note 3: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested.

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

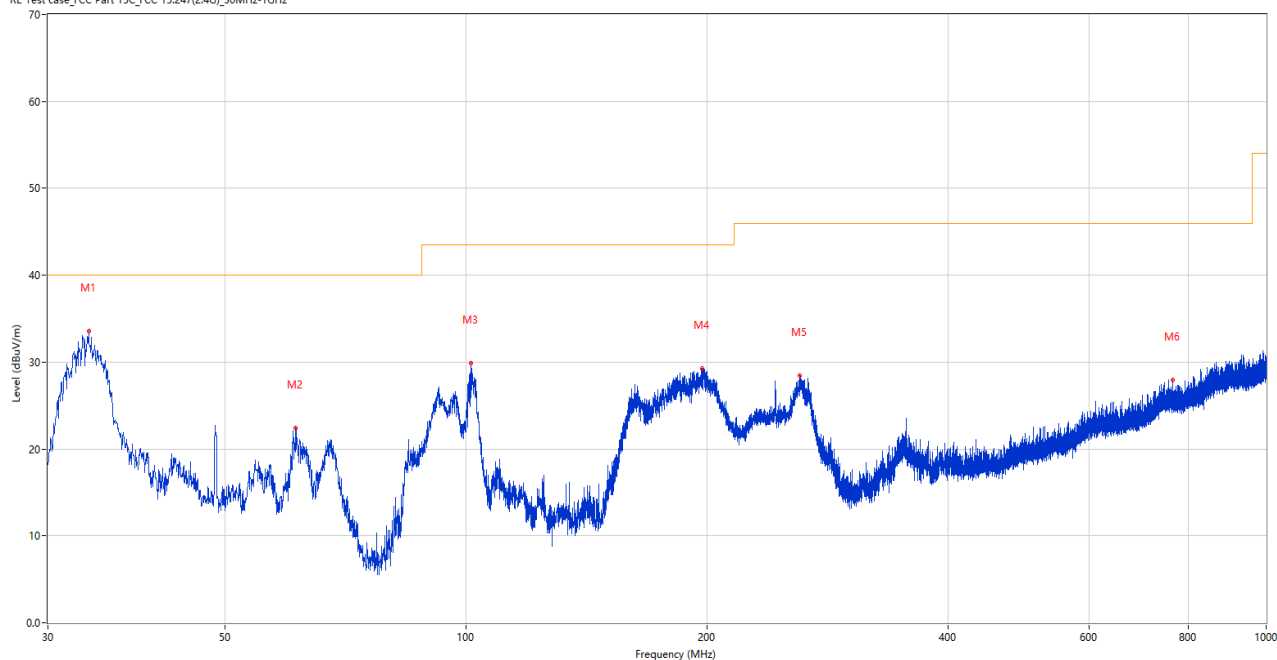
30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	31.067	22.86	-29.09	40.0	17.14	Peak	360.00	200	Horizontal	Pass
2	92.032	29.01	-27.48	43.5	14.49	Peak	313.00	200	Horizontal	Pass
3	161.241	27.05	-28.74	43.5	16.45	Peak	83.00	100	Horizontal	Pass
4	261.975	24.80	-24.13	46.0	21.20	Peak	111.00	200	Horizontal	Pass
5	559.814	23.52	-16.78	46.0	22.48	Peak	247.00	100	Horizontal	Pass
6	943.158	30.90	-9.07	46.0	15.10	Peak	119.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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



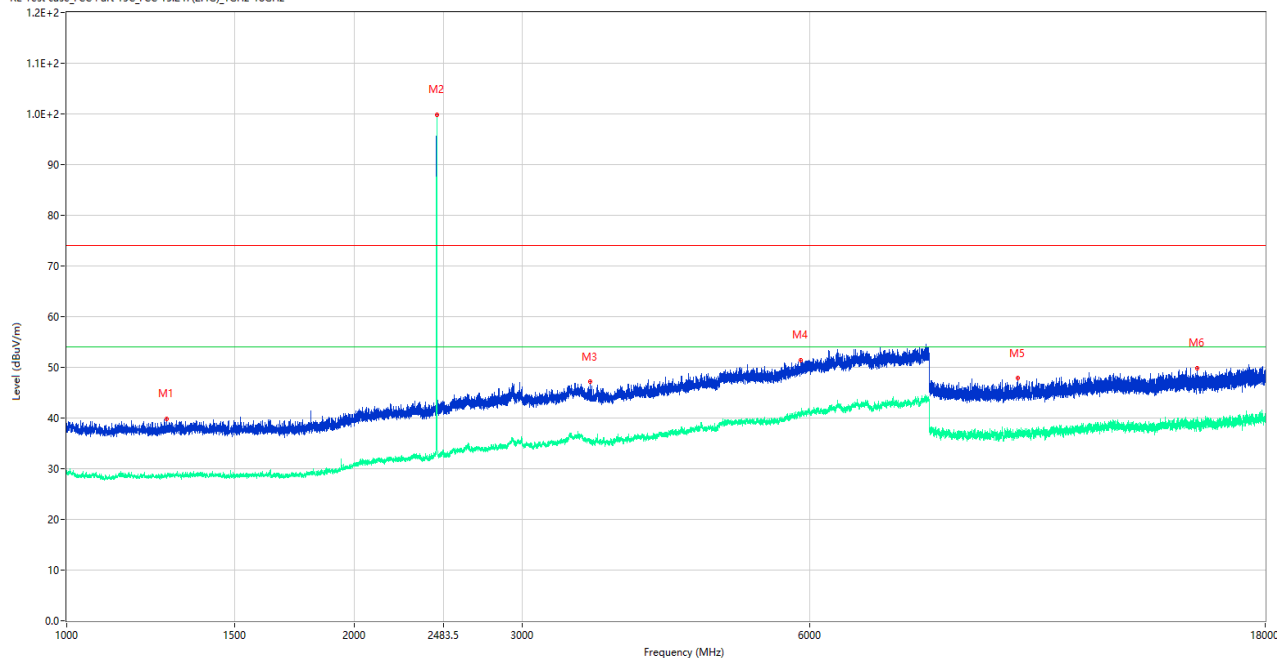
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	33.734	33.61	-28.20	40.0	6.39	Peak	262.00	100	Vertical	Pass
2	61.234	22.45	-26.33	40.0	17.55	Peak	250.00	100	Vertical	Pass
3	101.440	29.92	-26.11	43.5	13.58	Peak	317.00	100	Vertical	Pass
4	196.986	29.27	-25.55	43.5	14.23	Peak	20.00	200	Vertical	Pass
5	260.860	28.44	-24.11	46.0	17.56	Peak	92.00	100	Vertical	Pass
6	763.708	27.91	-11.99	46.0	18.09	Peak	50.00	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

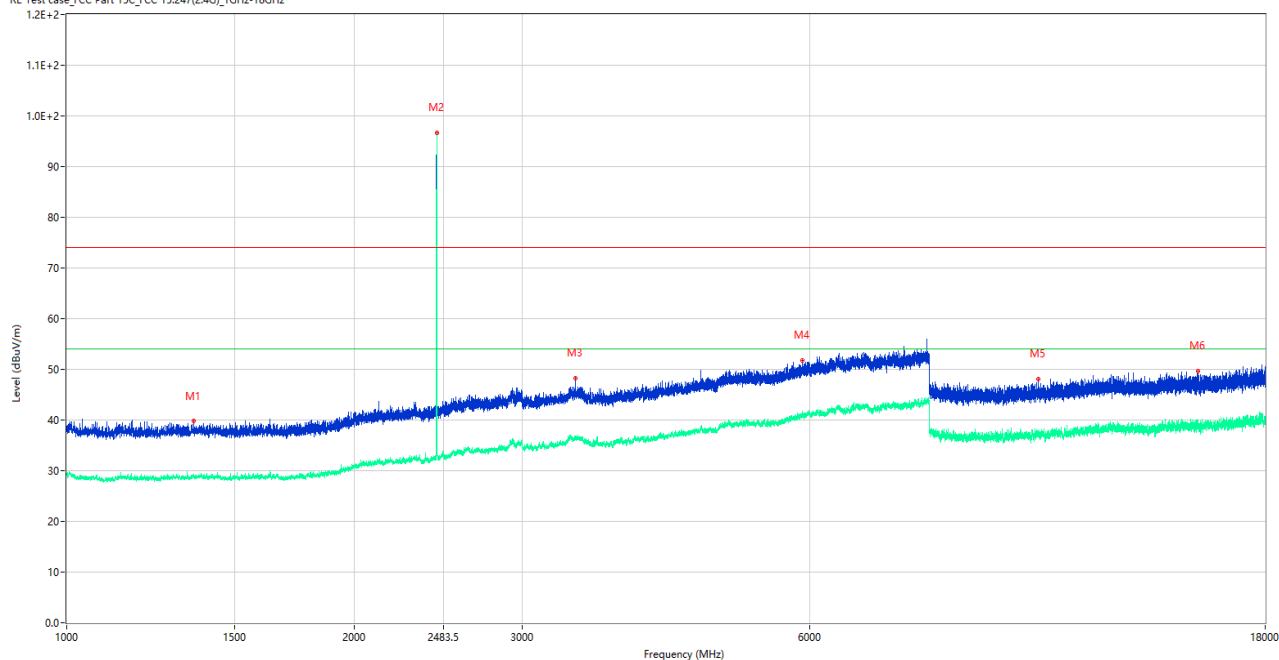
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1273.500	39.90	-15.84	74.0	34.10	Peak	360.00	150	Horizontal	Pass
1**	1273.500	28.74	-15.84	54.0	25.26	AV	360.00	150	Horizontal	Pass
2	2440.750	99.90	-12.38	74.0	-25.90	Peak	32.00	150	Horizontal	N/A
2**	2440.750	98.48	-12.38	54.0	-44.48	AV	32.00	150	Horizontal	N/A
3	3531.500	47.12	-6.21	74.0	26.88	Peak	50.00	150	Horizontal	Pass
3**	3531.500	35.38	-6.21	54.0	18.62	AV	50.00	150	Horizontal	Pass
4	5870.500	51.48	-1.12	74.0	22.52	Peak	118.00	150	Horizontal	Pass
4**	5870.500	40.65	-1.12	54.0	13.35	AV	118.00	150	Horizontal	Pass
5	9919.500	47.81	-4.29	74.0	26.19	Peak	150.00	150	Horizontal	Pass
5**	9919.500	36.64	-4.29	54.0	17.36	AV	150.00	150	Horizontal	Pass
6	15270.500	49.87	-1.28	74.0	24.13	Peak	266.00	150	Horizontal	Pass
6**	15270.500	39.30	-1.28	54.0	14.70	AV	266.00	150	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

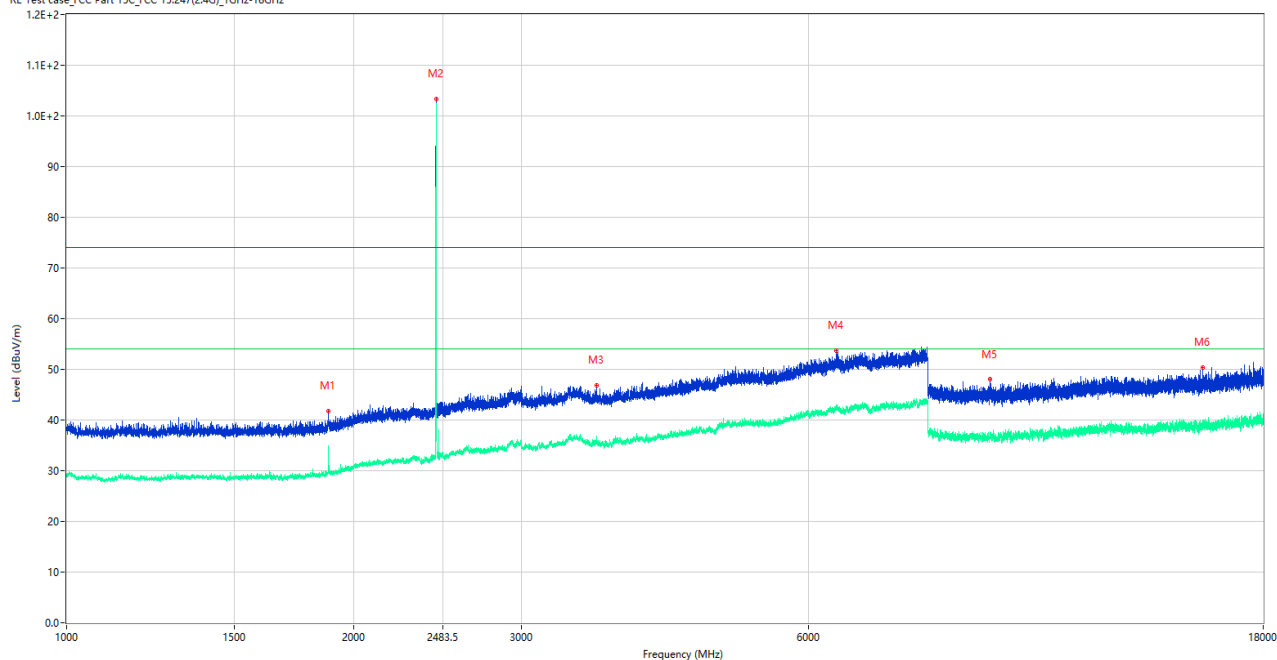
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1358.000	39.81	-15.84	74.0	34.19	Peak	0.00	150	Vertical	Pass
1**	1358.000	28.96	-15.84	54.0	25.04	AV	0.00	150	Vertical	Pass
2	2440.750	96.69	-12.38	74.0	-22.69	Peak	158.00	150	Vertical	N/A
2**	2440.750	95.27	-12.38	54.0	-41.27	AV	158.00	150	Vertical	N/A
3	3411.500	48.33	-5.30	74.0	25.67	Peak	28.00	150	Vertical	Pass
3**	3411.500	36.40	-5.30	54.0	17.60	AV	28.00	150	Vertical	Pass
4	5893.000	51.73	-0.58	74.0	22.27	Peak	213.00	150	Vertical	Pass
4**	5893.000	40.87	-0.58	54.0	13.13	AV	213.00	150	Vertical	Pass
5	10413.000	48.11	-3.29	74.0	25.89	Peak	296.00	150	Vertical	Pass
5**	10413.000	37.59	-3.29	54.0	16.41	AV	296.00	150	Vertical	Pass
6	15302.000	49.72	-1.93	74.0	24.28	Peak	327.00	150	Vertical	Pass
6**	15302.000	39.25	-1.93	54.0	14.75	AV	327.00	150	Vertical	Pass

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

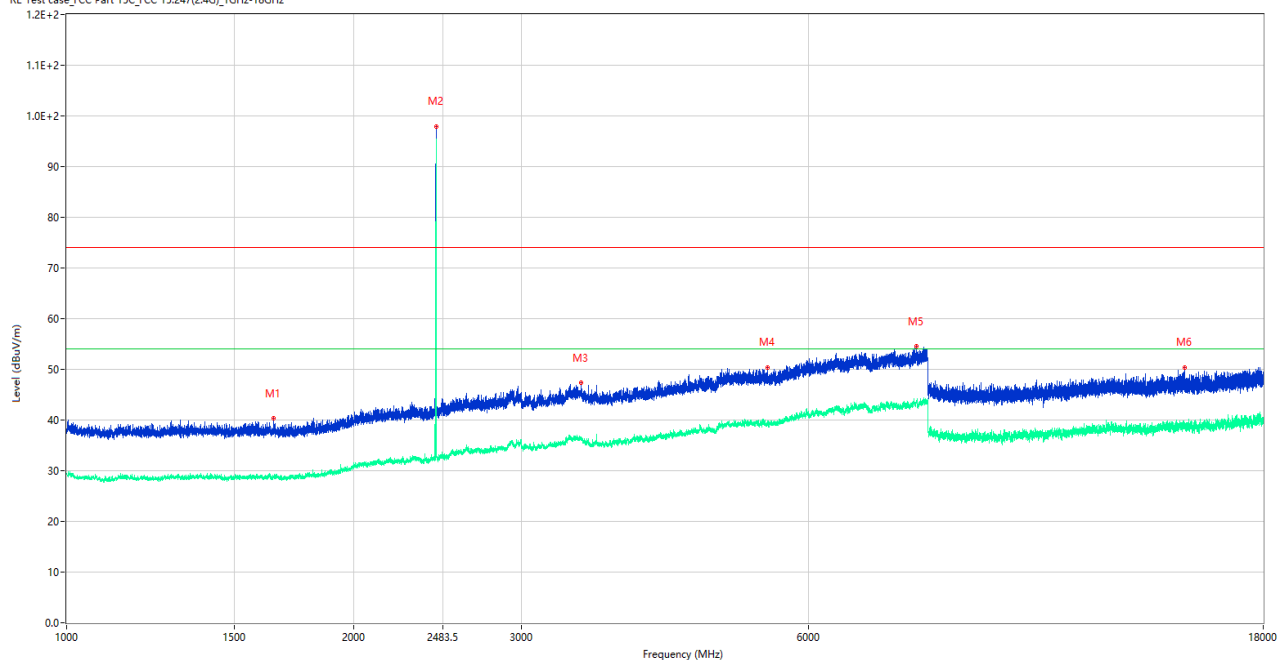
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1882.250	41.69	-15.32	74.0	32.31	Peak	243.00	150	Horizontal	Pass
1**	1882.250	34.35	-15.32	54.0	19.65	AV	243.00	150	Horizontal	Pass
2	2441.250	103.39	-12.40	74.0	-29.39	Peak	32.00	150	Horizontal	N/A
2**	2441.250	101.02	-12.40	54.0	-47.02	AV	32.00	150	Horizontal	N/A
3	3596.500	46.86	-5.11	74.0	27.14	Peak	6.00	150	Horizontal	Pass
3**	3596.500	36.47	-5.11	54.0	17.53	AV	6.00	150	Horizontal	Pass
4	6414.500	53.71	0.25	74.0	20.29	Peak	302.00	150	Horizontal	Pass
4**	6414.500	42.91	0.25	54.0	11.09	AV	302.00	150	Horizontal	Pass
5	9310.000	48.06	-5.45	74.0	25.94	Peak	124.00	150	Horizontal	Pass
5**	9310.000	36.47	-5.45	54.0	17.53	AV	124.00	150	Horizontal	Pass
6	15545.500	50.35	-2.55	74.0	23.65	Peak	10.00	150	Horizontal	Pass
6**	15545.500	38.83	-2.55	54.0	15.17	AV	10.00	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	1649.250	40.28	-16.26	74.0	33.72	Peak	2.00	150	Vertical	Pass
1**	1649.250	28.78	-16.26	54.0	25.22	AV	2.00	150	Vertical	Pass
2	2440.750	97.96	-12.38	74.0	-23.96	Peak	156.00	150	Vertical	N/A
2**	2440.750	94.87	-12.38	54.0	-40.87	AV	156.00	150	Vertical	N/A
3	3463.500	47.35	-5.04	74.0	26.65	Peak	0.00	150	Vertical	Pass
3**	3463.500	36.27	-5.04	54.0	17.73	AV	0.00	150	Vertical	Pass
4	5441.000	50.34	-2.13	74.0	23.66	Peak	292.00	150	Vertical	Pass
4**	5441.000	39.22	-2.13	54.0	14.78	AV	292.00	150	Vertical	Pass
5	7787.000	54.64	1.58	74.0	19.36	Peak	54.00	150	Vertical	Pass
5**	7787.000	43.33	1.58	54.0	10.67	AV	54.00	150	Vertical	Pass
6	14900.500	50.38	-1.79	74.0	23.62	Peak	262.00	150	Vertical	Pass
6**	14900.500	38.96	-1.79	54.0	15.04	AV	262.00	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.

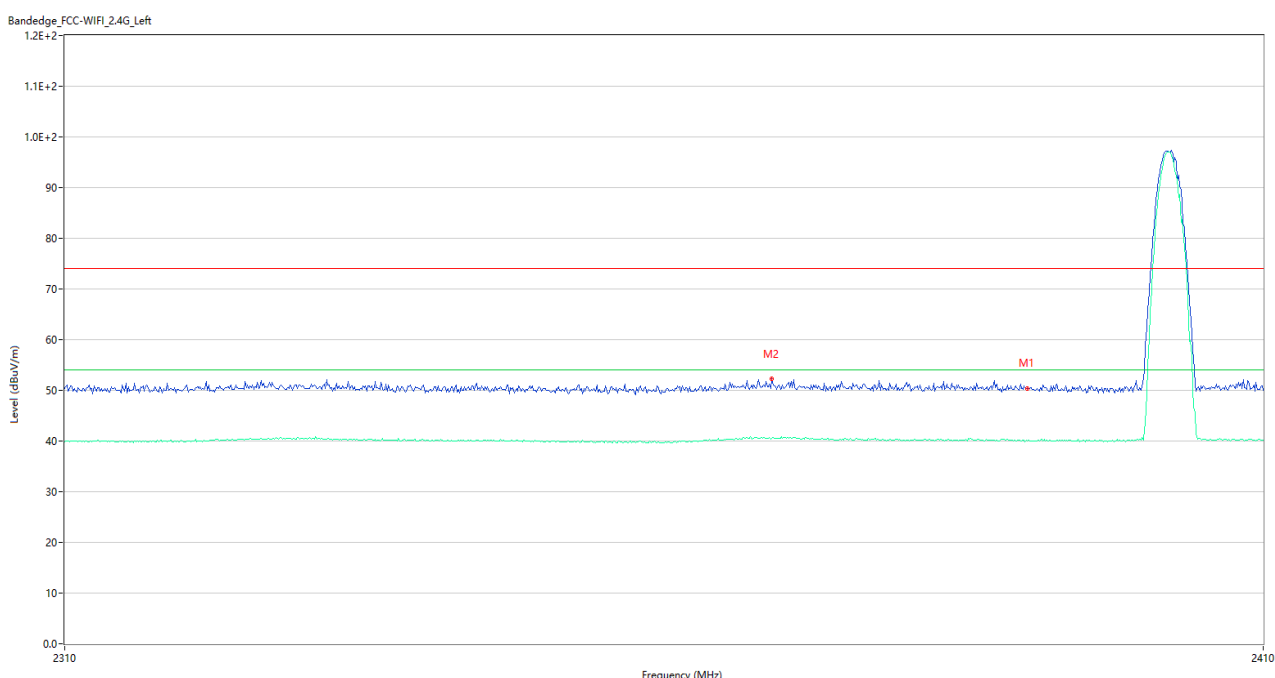
Note 2: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

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.

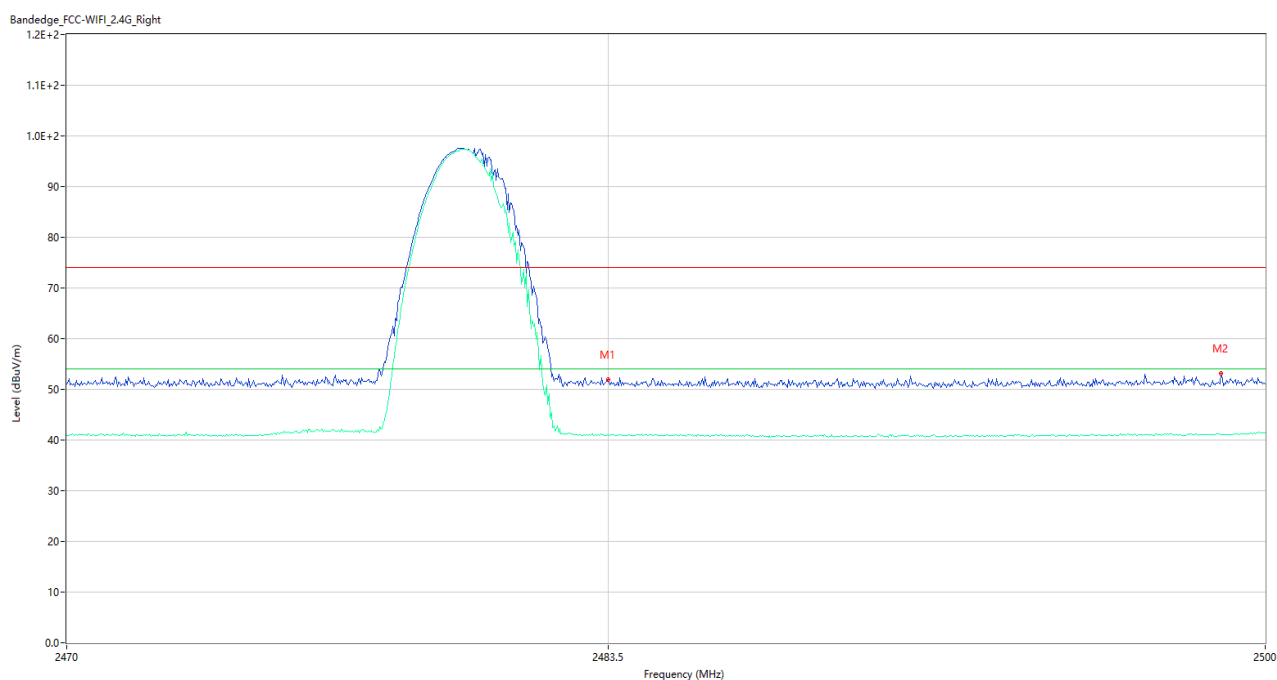
Test Data and Plots

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	50.38	-4.87	74.0	23.62	Peak	350.75	150	Horizontal	Pass
1**	2390.000	39.94	-4.87	54.0	14.06	AV	350.75	150	Horizontal	Pass
2	2368.500	52.19	-4.17	74.0	21.81	Peak	101.00	150	Horizontal	Pass
2**	2368.500	40.50	-4.17	54.0	13.50	AV	101.00	150	Horizontal	Pass

GFSK HIGH CHANNEL



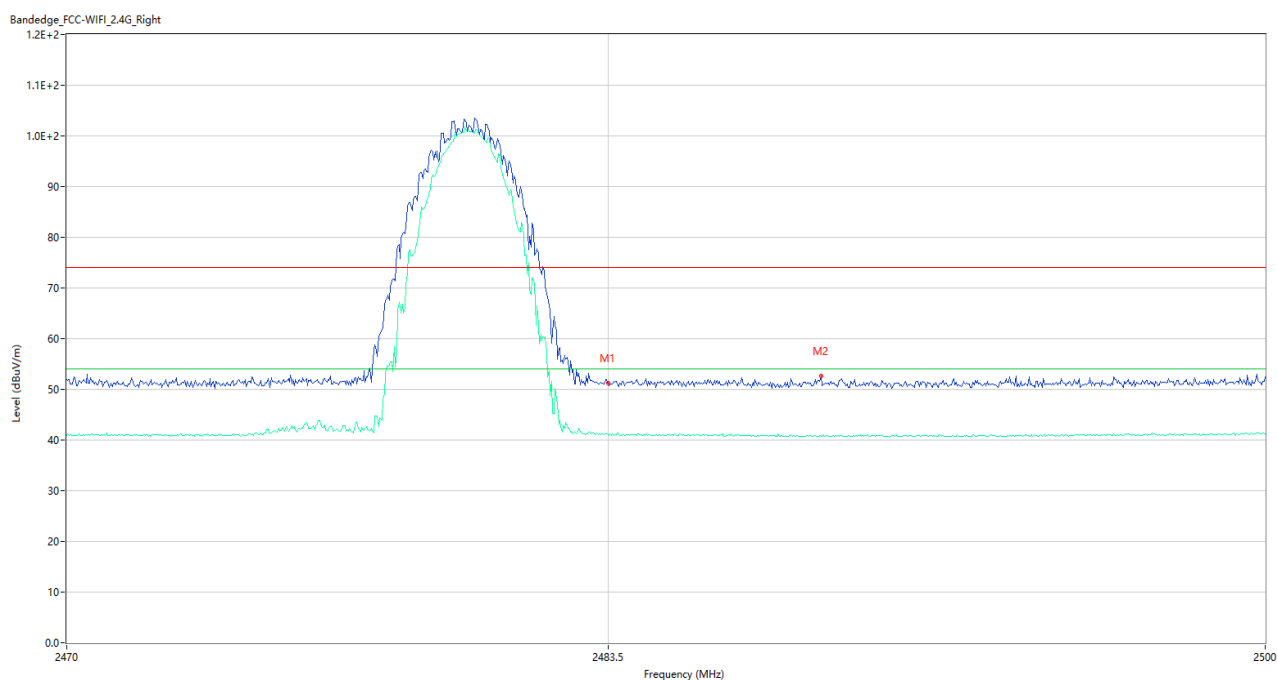
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	51.84	-3.78	74.0	22.16	Peak	70.00	150	Vertical	Pass
1**	2483.500	41.16	-3.78	54.0	12.84	AV	70.00	150	Vertical	Pass
2	2498.890	53.18	-3.98	74.0	20.82	Peak	11.00	150	Vertical	Pass
2**	2498.890	41.01	-3.98	54.0	12.99	AV	11.00	150	Vertical	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	50.22	-4.87	74.0	23.78	Peak	130.04	150	Vertical	Pass
1**	2390.000	40.00	-4.87	54.0	14.00	AV	130.04	150	Vertical	Pass
2	2330.300	52.55	-4.10	74.0	21.45	Peak	348.00	150	Vertical	Pass
2**	2330.300	40.45	-4.10	54.0	13.55	AV	348.00	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	51.24	-3.78	74.0	22.76	Peak	198.00	150	Horizontal	Pass
1**	2483.500	41.13	-3.78	54.0	12.87	AV	198.00	150	Horizontal	Pass
2	2488.840	52.70	-3.82	74.0	21.30	Peak	198.00	150	Horizontal	Pass
2**	2488.840	40.72	-3.82	54.0	13.28	AV	198.00	150	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH25C1427-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH25C1427-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH25C1427-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.
3. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the test report stamp.
4. The test data and results are only valid for the tested samples provided by the customer.
5. This report shall not be partially reproduced without the written permission of the Testing Center.
6. Any objection shall be raised to the Testing Center within 30 days after receiving the report.

--END OF REPORT--