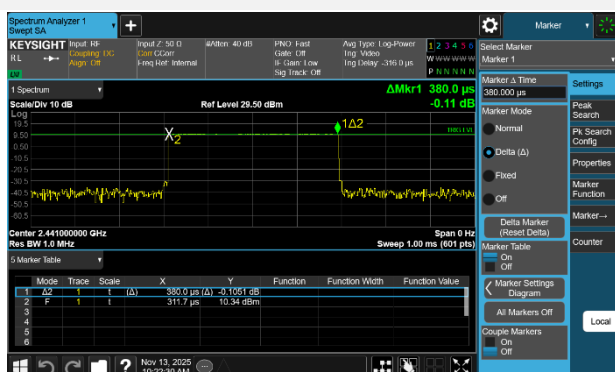
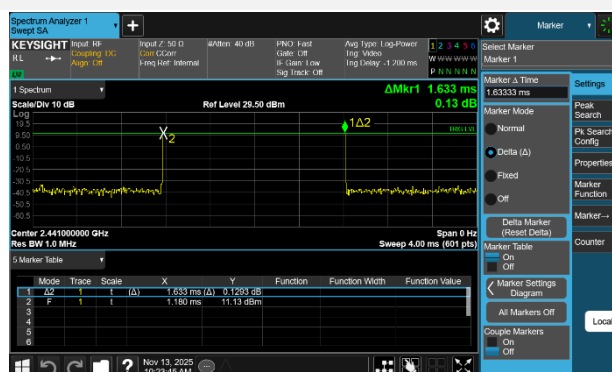


Test Plots

GFSK DH1



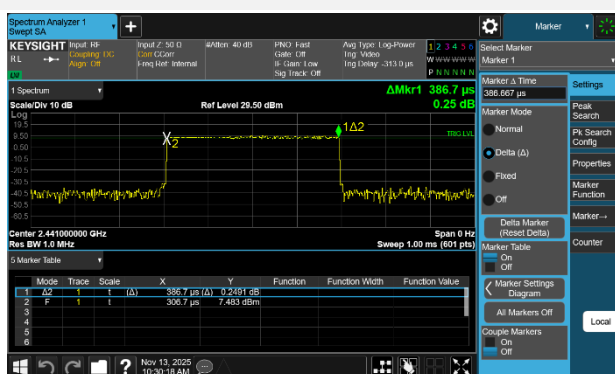
GFSK DH3



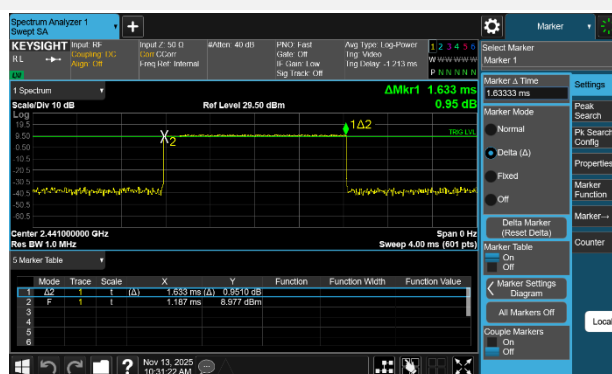
GFSK DH5



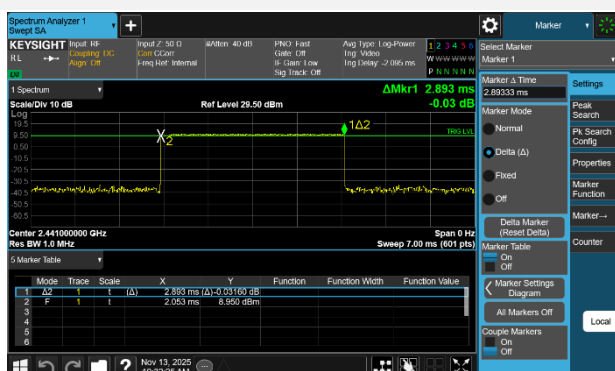
8-DPSK DH1



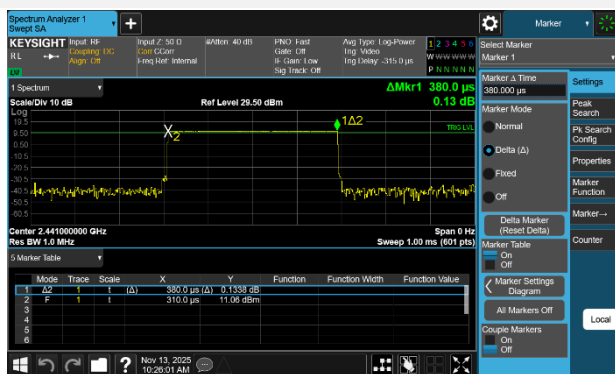
8-DPSK DH3



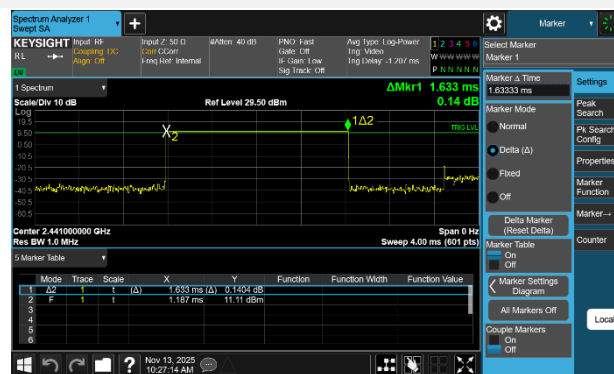
8-DPSK DH5



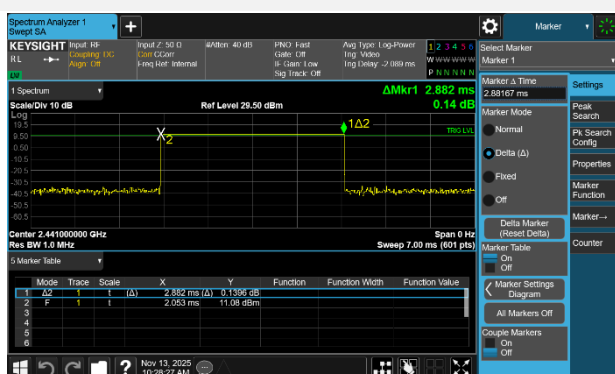
AFH Mode DH1



AFH Mode DH3



AFH Mode DH5



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

Test Data

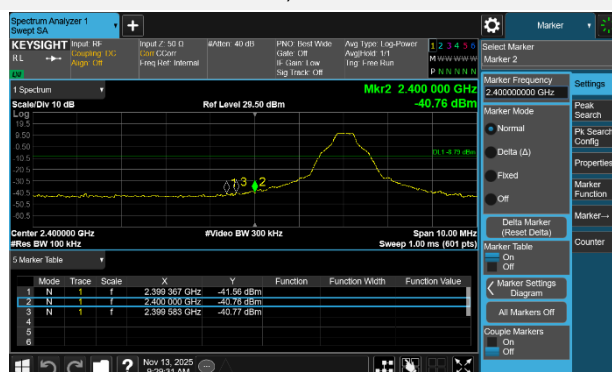
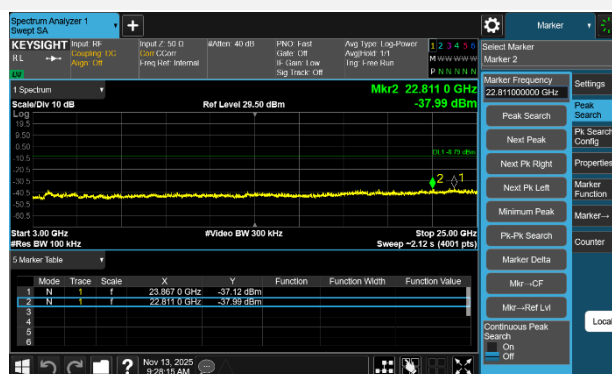
GFSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-37.12	11.21	-8.79	Pass
Middle	-36.53	11.76	-8.24	Pass
High	-36.35	9.17	-10.83	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-36.76	8.91	-11.09	Pass
Middle	-37.13	9.63	-10.37	Pass
High	-36.57	7.63	-12.37	Pass
Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-36.75	10.85	-9.15	Pass
8-DPSK	-35.45	7.74	-12.26	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

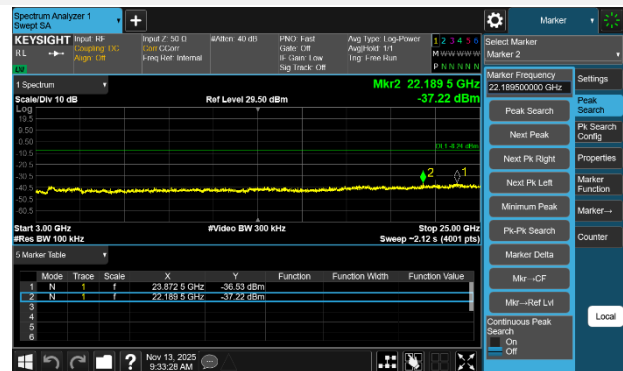
GFSK MIDDLE CHANNEL, CARRIER LEVEL



GFSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



GFSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



GFSK HIGH CHANNEL, CARRIER LEVEL



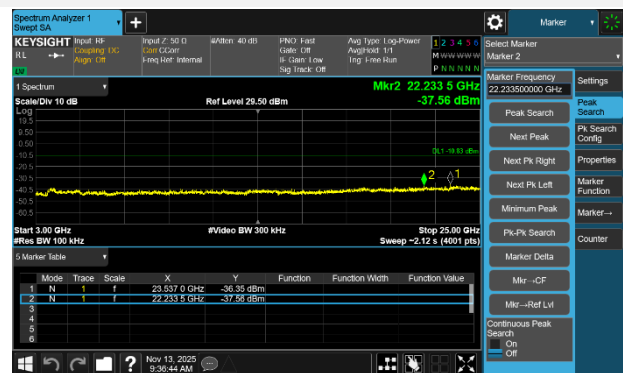
GFSK HIGH CHANNEL, BAND EDGE



GFSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



GFSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



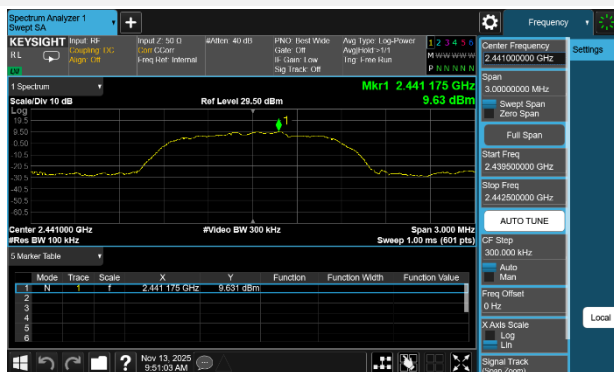
8-DPSK LOW CHANNEL, CARRIER LEVEL



8-DPSK LOW CHANNEL, BAND EDGE

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

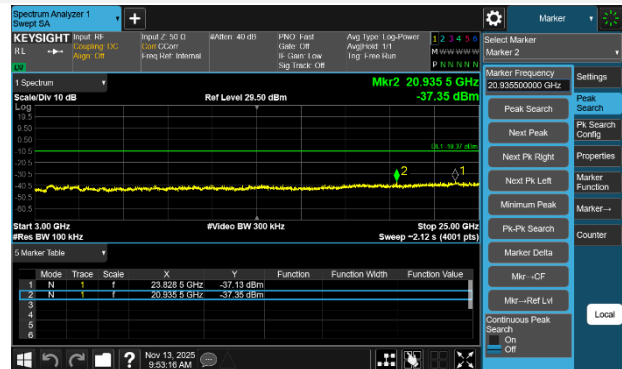
8-DPSK MIDDLE CHANNEL, CARRIER LEVEL



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



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



8-DPSK HIGH CHANNEL, CARRIER LEVEL



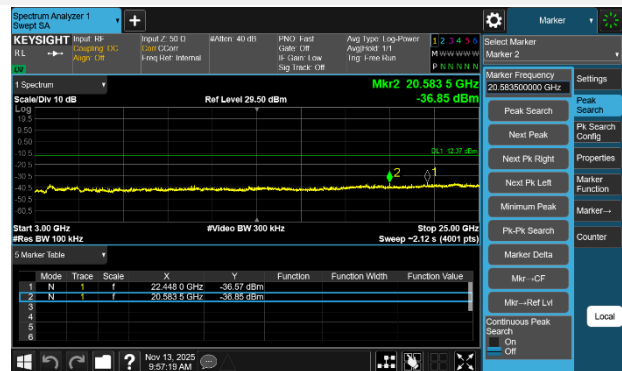
8-DPSK HIGH CHANNEL, BAND EDGE



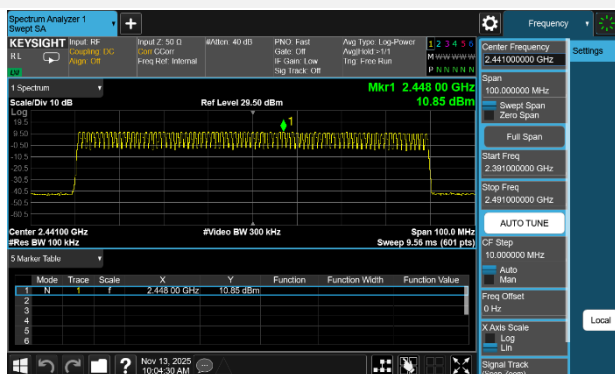
8-DPSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



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



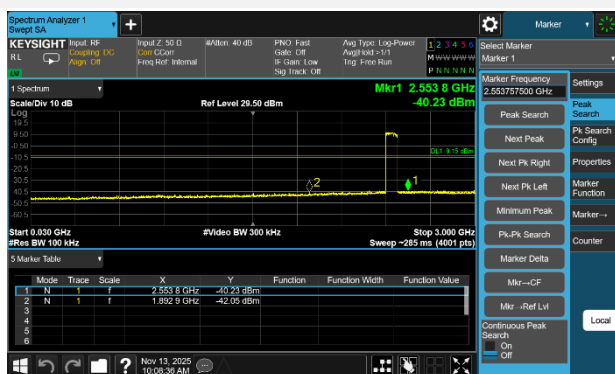
GFSK HOPPING, CARRIER LEVEL



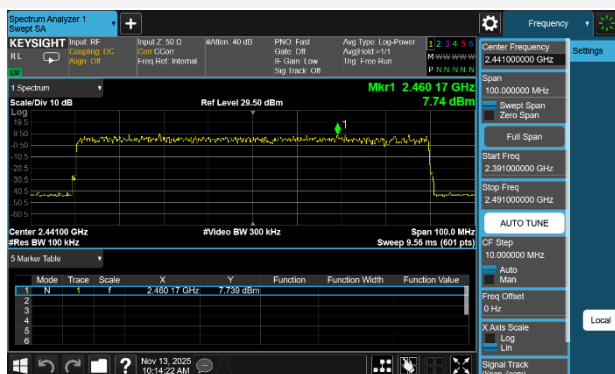
GFSK HOPPING BAND EDGE (LOW)



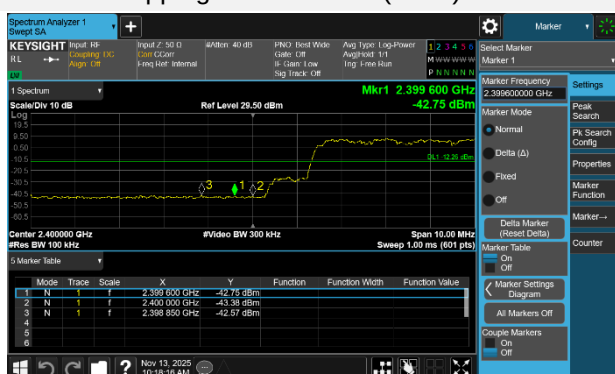
GFSK HOPPING BAND EDGE (HIGH)

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

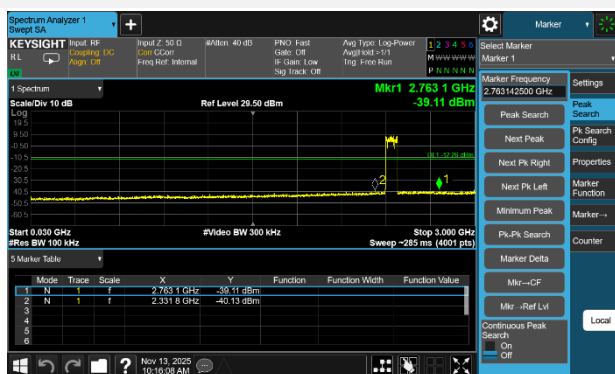
8-DPSK HOPPING, CARRIER LEVEL



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

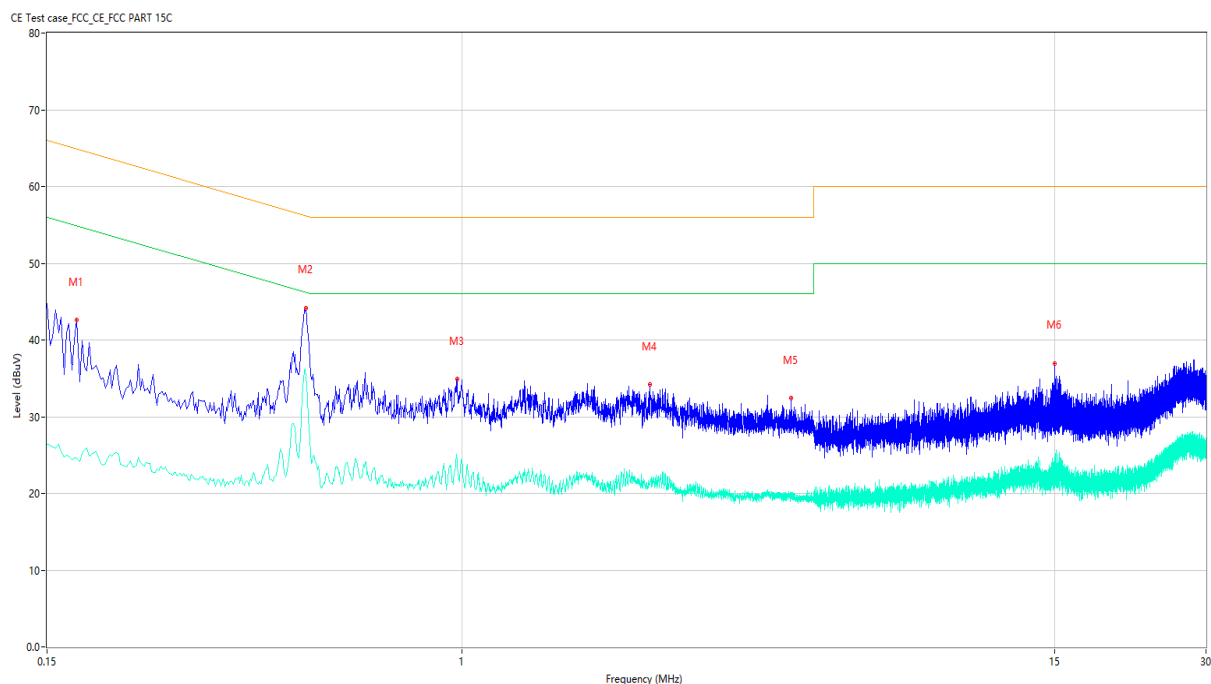
Note 1: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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

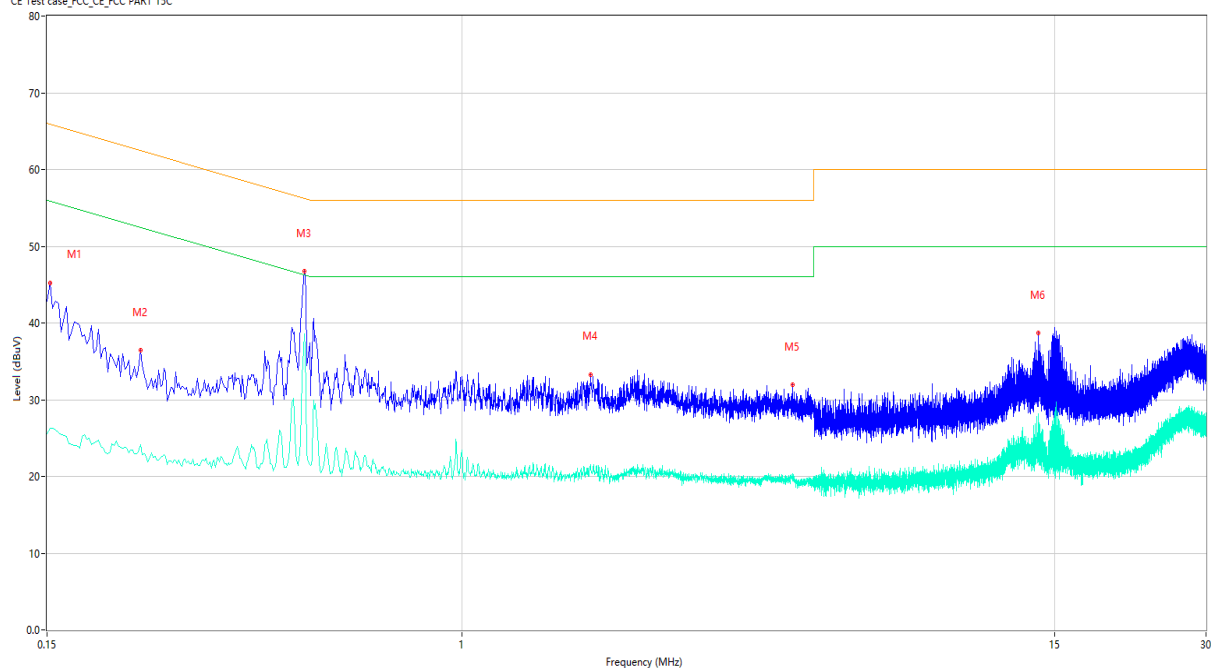
PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.172	42.58	10.08	64.86	22.28	Peak	L	Pass
1**	0.172	24.58	10.08	54.86	30.28	AV	L	Pass
2	0.490	44.18	10.15	56.17	11.99	Peak	L	Pass
2**	0.490	35.32	10.15	46.17	10.85	AV	L	Pass
3	0.978	34.93	10.18	56.00	21.07	Peak	L	Pass
3**	0.978	24.30	10.18	46.00	21.70	AV	L	Pass
4	2.362	34.16	10.37	56.00	21.84	Peak	L	Pass
4**	2.362	21.23	10.37	46.00	24.77	AV	L	Pass
5	4.508	32.39	10.43	56.00	23.61	Peak	L	Pass
5**	4.508	19.84	10.43	46.00	26.16	AV	L	Pass
6	15.048	36.95	11.18	60.00	23.05	Peak	L	Pass
6**	15.048	24.58	11.18	50.00	25.42	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	0.152	45.26	10.15	65.89	20.63	Peak	N	Pass
1**	0.152	26.25	10.15	55.89	29.64	AV	N	Pass
2	0.230	36.41	10.16	62.45	26.04	Peak	N	Pass
2**	0.230	24.12	10.16	52.45	28.33	AV	N	Pass
3	0.486	46.75	10.17	56.24	9.49	Peak	N	Pass
3**	0.486	38.56	10.17	46.24	7.68	AV	N	Pass
4	1.800	33.29	10.24	56.00	22.71	Peak	N	Pass
4**	1.800	21.24	10.24	46.00	24.76	AV	N	Pass
5	4.532	31.94	10.41	56.00	24.06	Peak	N	Pass
5**	4.532	19.41	10.41	46.00	26.59	AV	N	Pass
6	13.936	38.66	11.09	60.00	21.34	Peak	N	Pass
6**	13.936	26.16	11.09	50.00	23.84	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.

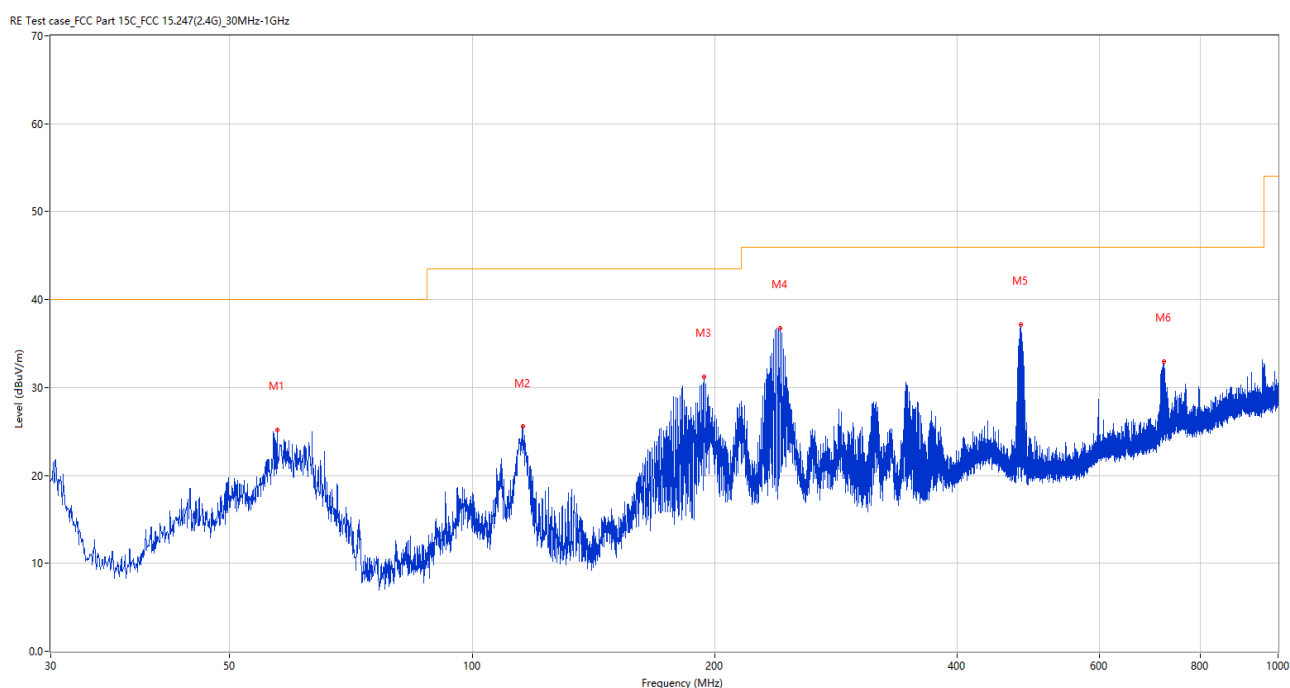
Note 3: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested.

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

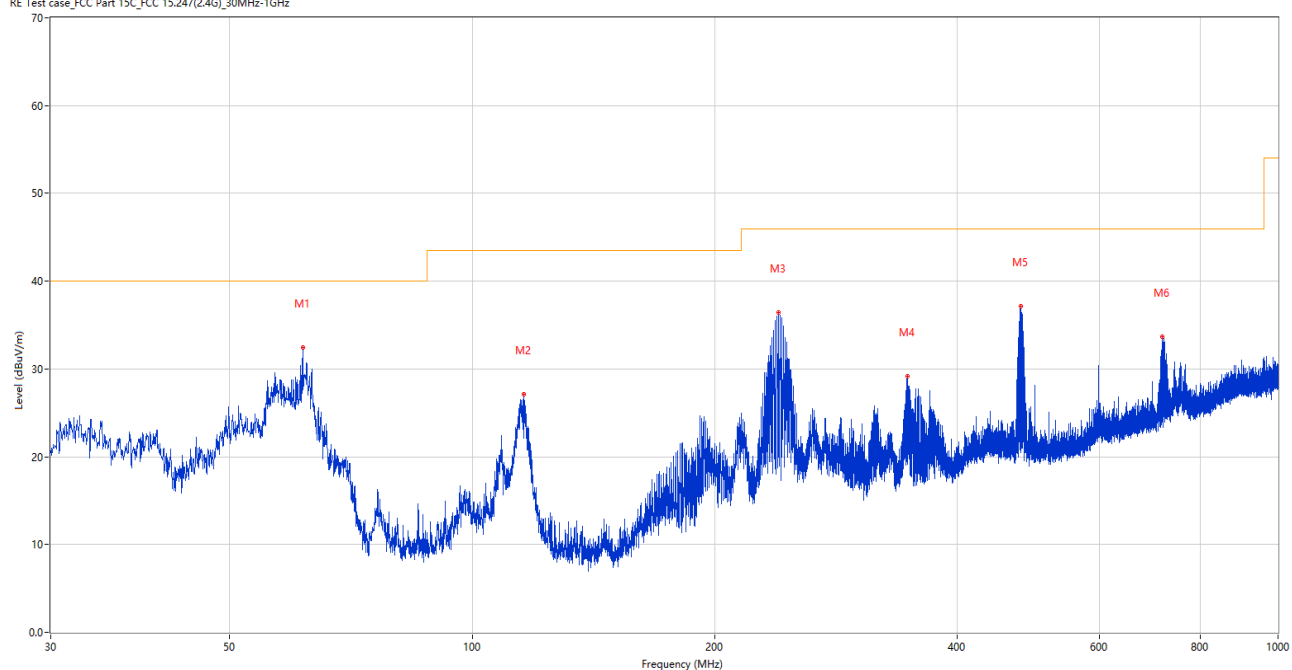
30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	57.257	25.15	-25.47	40.0	14.85	Peak	206.00	200	Horizontal	Pass
2	115.506	25.55	-27.40	43.5	17.95	Peak	321.00	200	Horizontal	Pass
3	193.784	31.22	-25.72	43.5	12.28	Peak	72.00	100	Horizontal	Pass
4	241.072	36.77	-24.42	46.0	9.23	Peak	97.00	100	Horizontal	Pass
5	479.983	37.14	-18.70	46.0	8.86	Peak	198.00	100	Horizontal	Pass
6	722.192	33.00	-13.11	46.0	13.00	Peak	72.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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



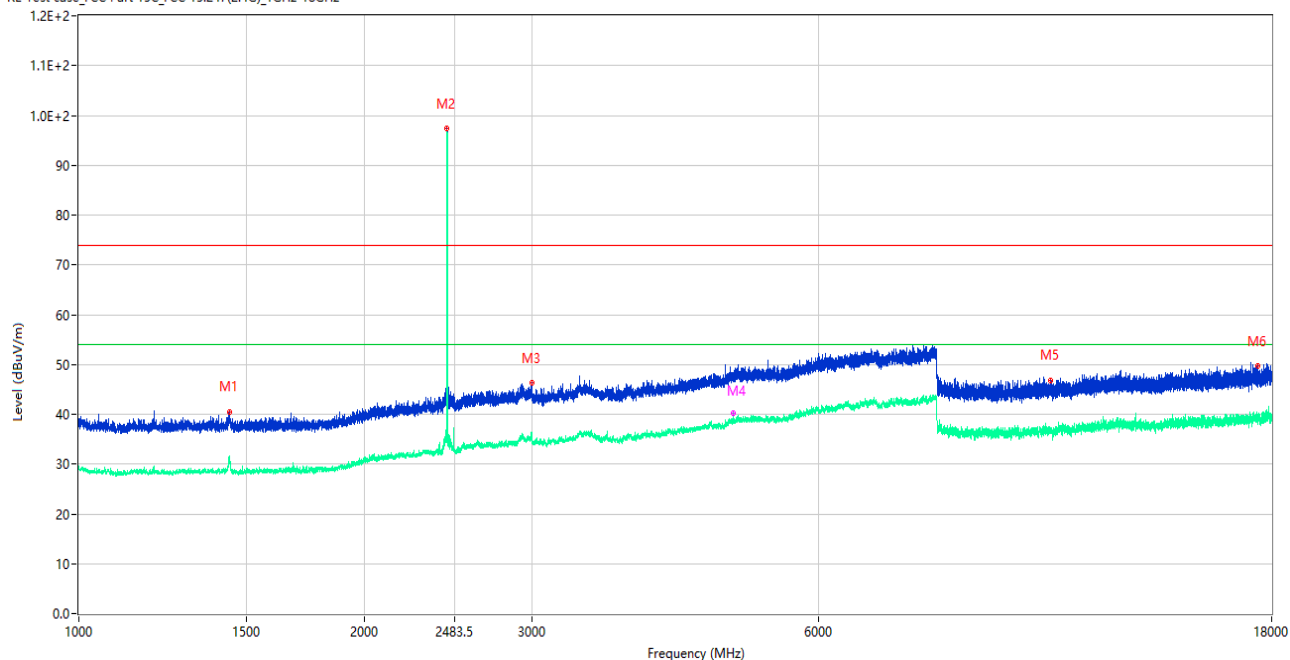
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	61.622	32.42	-26.42	40.0	7.58	Peak	317.00	100	Vertical	Pass
2	115.797	27.09	-27.47	43.5	16.41	Peak	0.00	100	Vertical	Pass
3	240.005	36.42	-24.48	46.0	9.58	Peak	34.00	200	Vertical	Pass
4	347.336	29.16	-21.42	46.0	16.84	Peak	63.00	100	Vertical	Pass
5	479.983	37.14	-18.70	46.0	8.86	Peak	38.00	100	Vertical	Pass
6	718.846	33.70	-13.31	46.0	12.30	Peak	56.00	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 MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

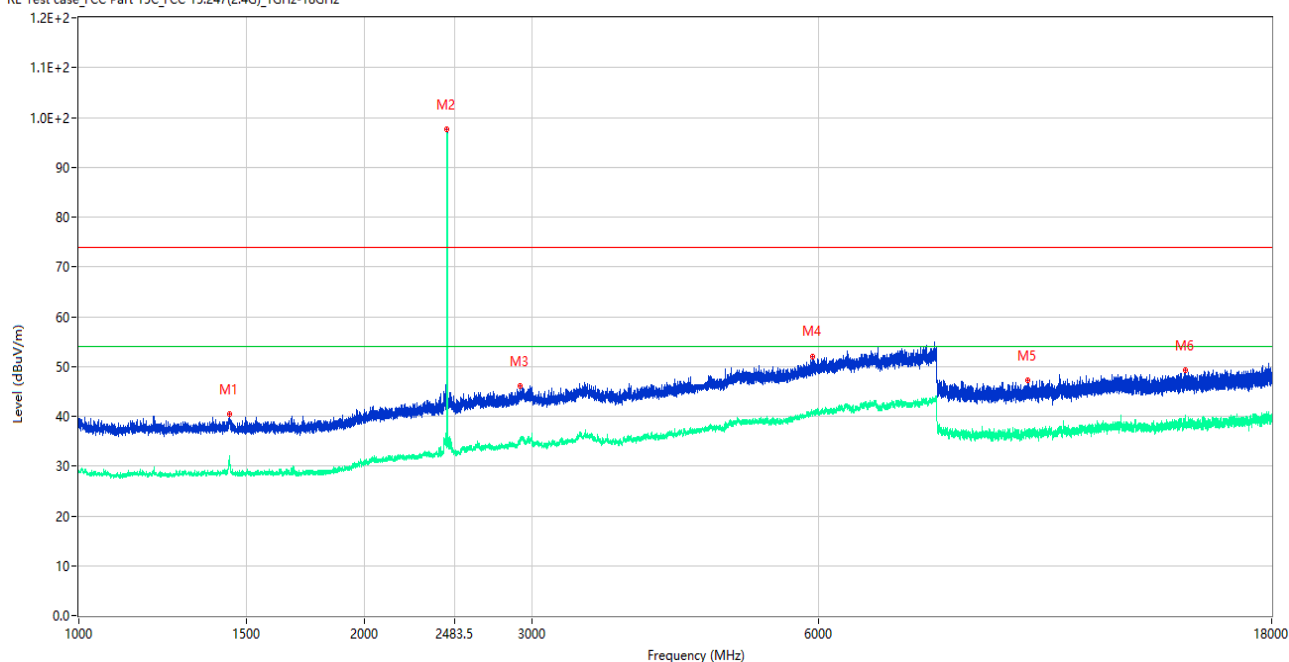
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1440.000	40.56	-15.95	74.0	33.44	Peak	228.00	150	Horizontal	Pass
1**	1440.000	30.66	-15.95	54.0	23.34	AV	228.00	150	Horizontal	Pass
2	2441.000	97.46	-12.39	74.0	-23.46	Peak	35.00	150	Horizontal	N/A
2**	2441.000	96.30	-12.39	54.0	-42.30	AV	35.00	150	Horizontal	N/A
3	2995.500	46.27	-8.87	74.0	27.73	Peak	35.00	150	Horizontal	Pass
3**	2995.500	35.43	-8.87	54.0	18.57	AV	35.00	150	Horizontal	Pass
4	4882.500	47.54	-2.31	74.0	26.46	Peak	84.00	150	Horizontal	Pass
4**	4882.500	40.22	-2.31	54.0	13.78	AV	84.00	150	Horizontal	Pass
5	10530.500	46.89	-3.46	74.0	27.11	Peak	360.00	150	Horizontal	Pass
5**	10530.500	35.83	-3.46	54.0	18.17	AV	360.00	150	Horizontal	Pass
6	17421.001	49.79	-0.23	74.0	24.21	Peak	360.00	150	Horizontal	Pass
6**	17421.001	38.87	-0.23	54.0	15.13	AV	360.00	150	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

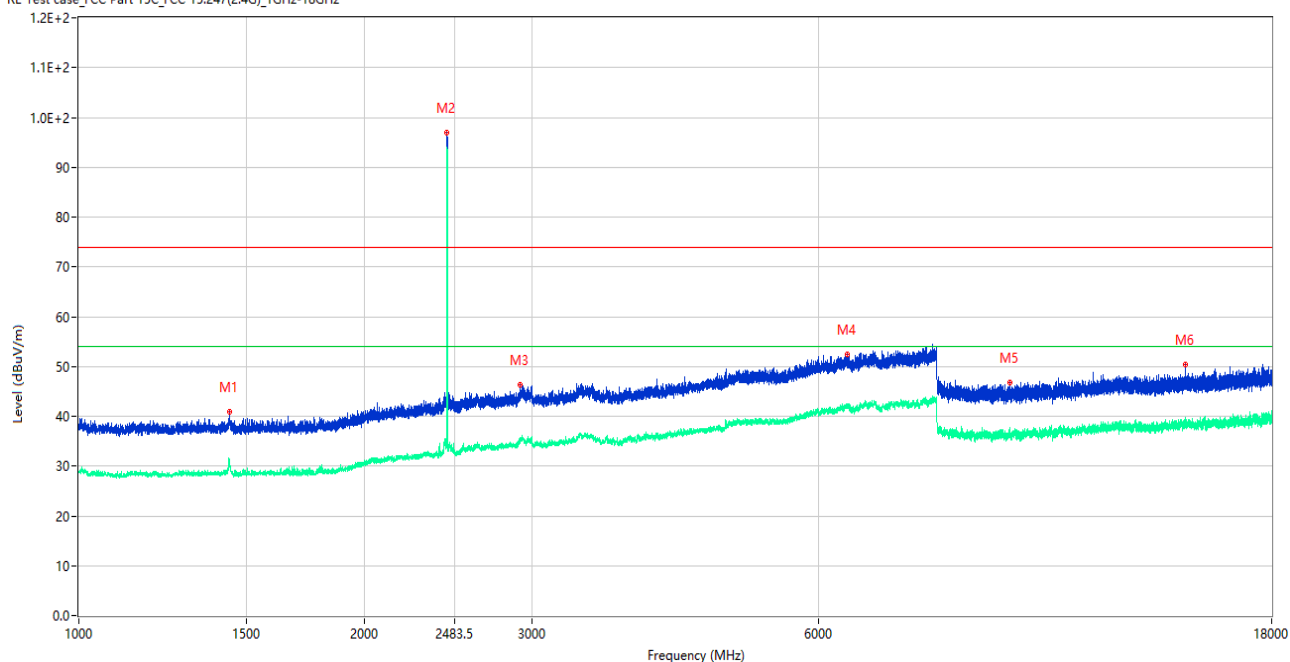
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1441.000	40.34	-15.93	74.0	33.66	Peak	5.00	150	Vertical	Pass
1**	1441.000	30.26	-15.93	54.0	23.74	AV	5.00	150	Vertical	Pass
2	2441.000	97.51	-12.39	74.0	-23.51	Peak	29.00	150	Vertical	N/A
2**	2441.000	96.75	-12.39	54.0	-42.75	AV	29.00	150	Vertical	N/A
3	2912.750	46.07	-9.17	74.0	27.93	Peak	5.00	150	Vertical	Pass
3**	2912.750	35.01	-9.17	54.0	18.99	AV	5.00	150	Vertical	Pass
4	5923.000	52.07	-0.29	74.0	21.93	Peak	18.00	150	Vertical	Pass
4**	5923.000	40.50	-0.29	54.0	13.50	AV	18.00	150	Vertical	Pass
5	9964.000	47.21	-3.87	74.0	26.79	Peak	301.00	150	Vertical	Pass
5**	9964.000	36.78	-3.87	54.0	17.22	AV	301.00	150	Vertical	Pass
6	14597.000	49.35	-2.19	74.0	24.65	Peak	96.00	150	Vertical	Pass
6**	14597.000	39.37	-2.19	54.0	14.63	AV	96.00	150	Vertical	Pass

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

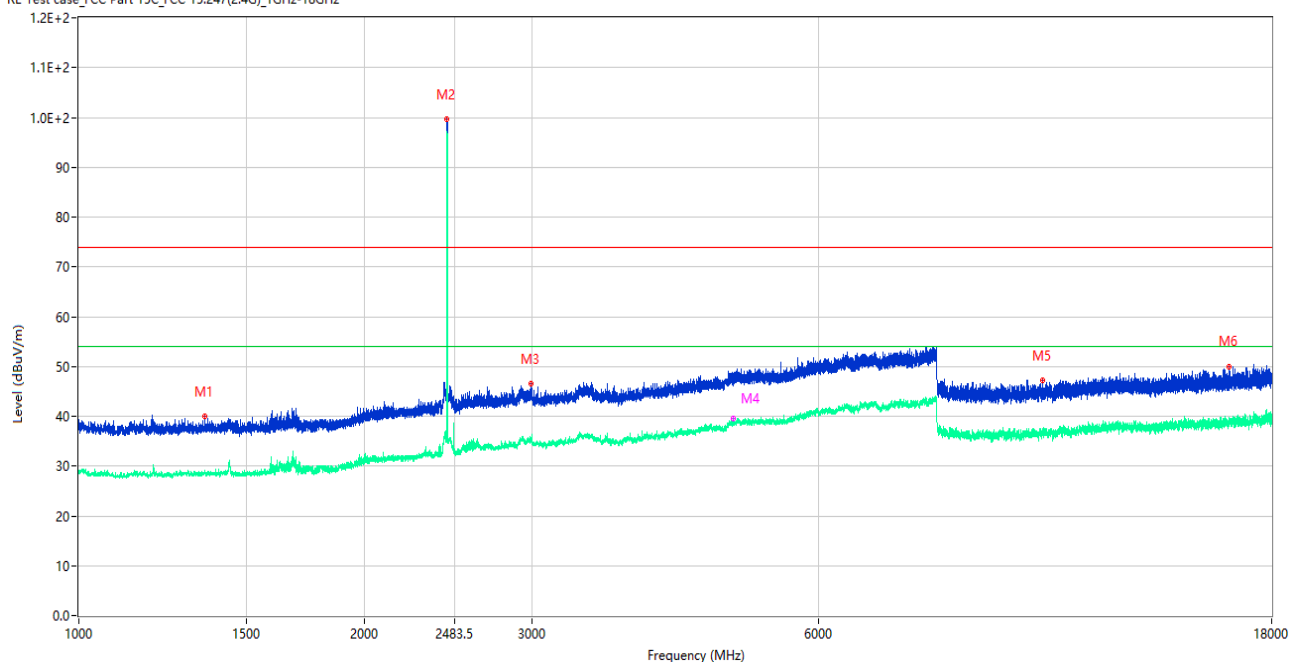
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1439.750	40.89	-15.95	74.0	33.11	Peak	17.00	150	Horizontal	Pass
1**	1439.750	30.98	-15.95	54.0	23.02	AV	17.00	150	Horizontal	Pass
2	2441.000	96.95	-12.39	74.0	-22.95	Peak	30.00	150	Horizontal	N/A
2**	2441.000	93.66	-12.39	54.0	-39.66	AV	30.00	150	Horizontal	N/A
3	2910.500	46.31	-9.31	74.0	27.69	Peak	138.00	150	Horizontal	Pass
3**	2910.500	34.78	-9.31	54.0	19.22	AV	138.00	150	Horizontal	Pass
4	6436.000	52.45	0.07	74.0	21.55	Peak	267.00	150	Horizontal	Pass
4**	6436.000	41.94	0.07	54.0	12.06	AV	267.00	150	Horizontal	Pass
5	9547.500	46.68	-2.54	74.0	27.32	Peak	95.00	150	Horizontal	Pass
5**	9547.500	37.53	-2.54	54.0	16.47	AV	95.00	150	Horizontal	Pass
6	14590.000	50.31	-2.23	74.0	23.69	Peak	182.00	150	Horizontal	Pass
6**	14590.000	39.28	-2.23	54.0	14.72	AV	182.00	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	1356.250	40.01	-15.83	74.0	33.99	Peak	260.00	150	Vertical	Pass
1**	1356.250	28.68	-15.83	54.0	25.32	AV	260.00	150	Vertical	Pass
2	2441.250	99.73	-12.40	74.0	-25.73	Peak	223.00	150	Vertical	N/A
2**	2441.250	97.11	-12.40	54.0	-43.11	AV	223.00	150	Vertical	N/A
3	2992.250	46.52	-9.05	74.0	27.48	Peak	46.00	150	Vertical	Pass
3**	2992.250	35.61	-9.05	54.0	18.39	AV	46.00	150	Vertical	Pass
4	4882.500	47.83	-2.31	74.0	26.17	Peak	111.00	150	Vertical	Pass
4**	4882.500	39.51	-2.31	54.0	14.49	AV	111.00	150	Vertical	Pass
5	10323.500	47.23	-3.31	74.0	26.77	Peak	145.00	150	Vertical	Pass
5**	10323.500	36.84	-3.31	54.0	17.16	AV	145.00	150	Vertical	Pass
6	16244.500	50.05	-1.39	74.0	23.95	Peak	292.00	150	Vertical	Pass
6**	16244.500	38.87	-1.39	54.0	15.13	AV	292.00	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.

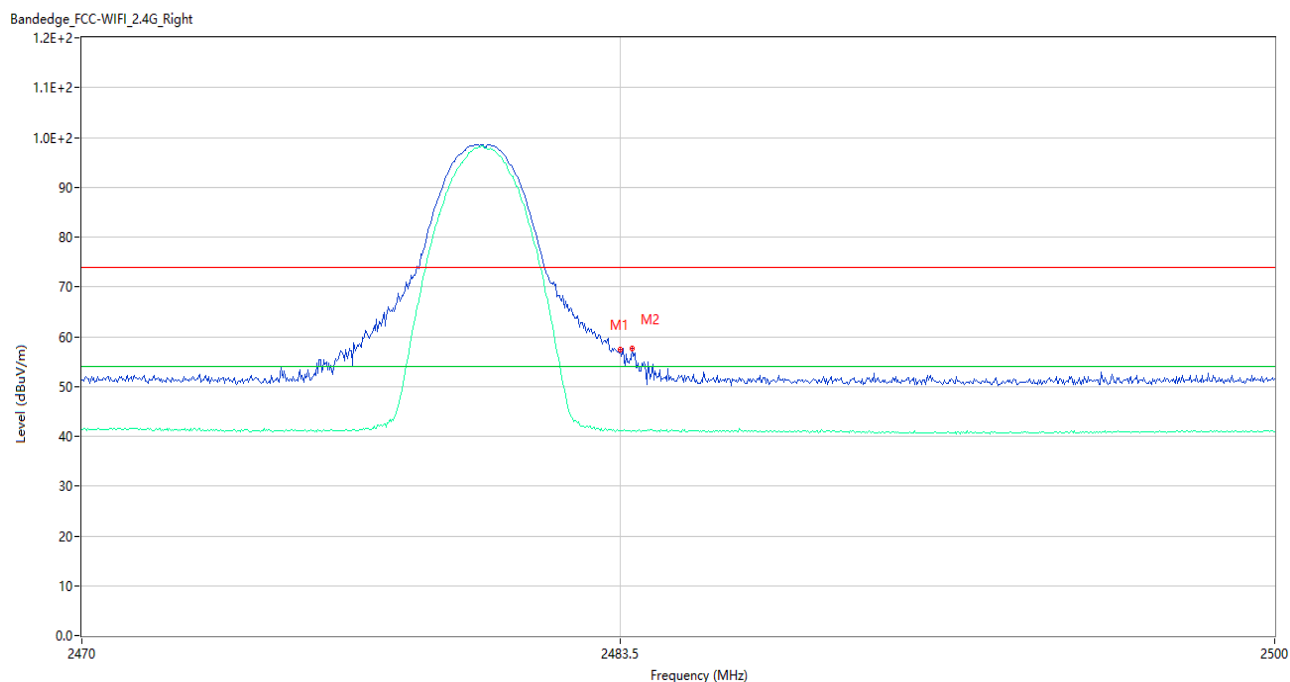
Test Data and Plots

GFSK LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	50.46	-4.87	74.0	23.54	Peak	359.83	150	Vertical	Pass
1**	2390.000	40.34	-4.87	54.0	13.66	AV	359.83	150	Vertical	Pass
2	2376.900	52.77	-4.21	74.0	21.23	Peak	224.00	150	Vertical	Pass
2**	2376.900	40.51	-4.21	54.0	13.49	AV	224.00	150	Vertical	Pass

GFSK HIGH CHANNEL



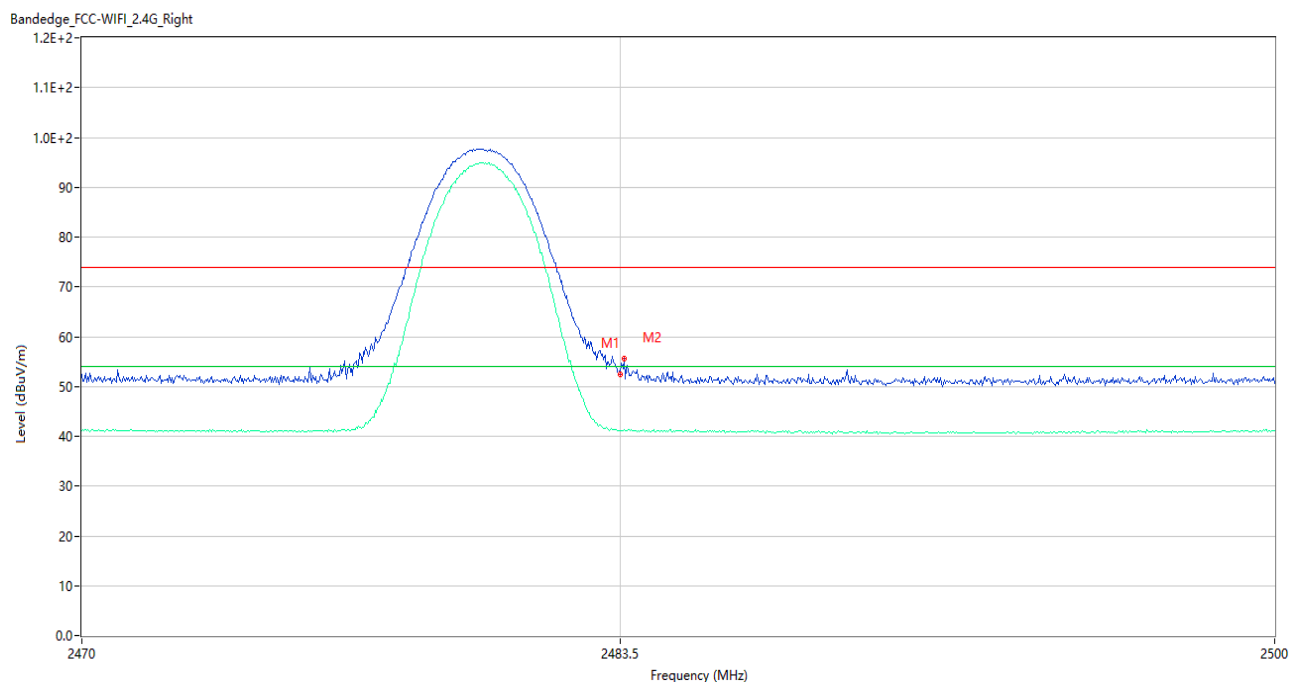
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	57.35	-3.78	74.0	16.65	Peak	114.00	150	Vertical	Pass
1**	2483.500	41.20	-3.78	54.0	12.80	AV	114.00	150	Vertical	Pass
2	2483.800	57.55	-3.78	74.0	16.45	Peak	117.00	150	Vertical	Pass
2**	2483.800	41.21	-3.78	54.0	12.79	AV	117.00	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	50.65	-4.87	74.0	23.35	Peak	290.67	150	Vertical	Pass
1**	2390.000	40.37	-4.87	54.0	13.63	AV	290.67	150	Vertical	Pass
2	2346.100	51.87	-4.78	74.0	22.13	Peak	360.00	150	Vertical	Pass
2**	2346.100	40.04	-4.78	54.0	13.96	AV	360.00	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	52.41	-3.78	74.0	21.59	Peak	264.00	150	Vertical	Pass
1**	2483.500	41.20	-3.78	54.0	12.80	AV	264.00	150	Vertical	Pass
2	2483.590	55.56	-3.78	74.0	18.44	Peak	311.00	150	Vertical	Pass
2**	2483.590	41.26	-3.78	54.0	12.74	AV	311.00	150	Vertical	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ25A1264-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ25A1264-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ25A1264-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.
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6. Any objection shall be raised to the Testing Center within 30 days after receiving the report.

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