

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

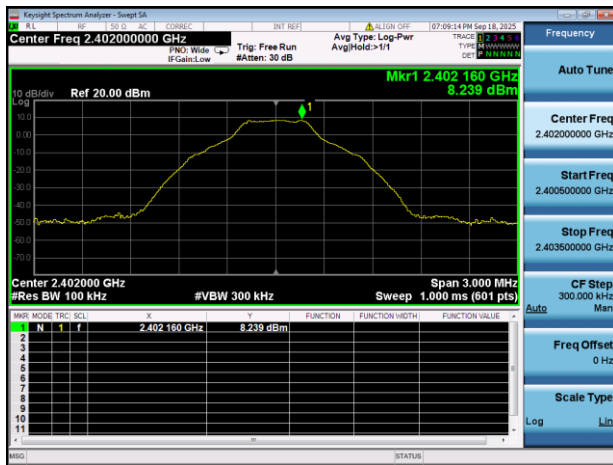
Test Data

GFSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-42.76	8.24	-11.76	Pass
Middle	-43.08	8.30	-11.70	Pass
High	-43.51	8.31	-11.69	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-43.66	7.45	-12.55	Pass
Middle	-43.68	8.37	-11.63	Pass
High	-43.83	8.02	-11.98	Pass

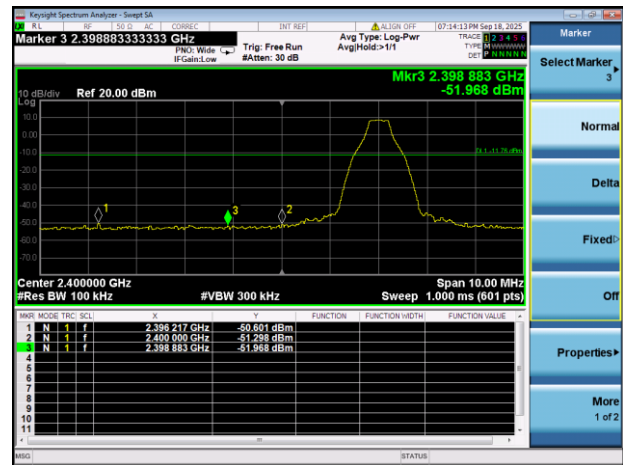
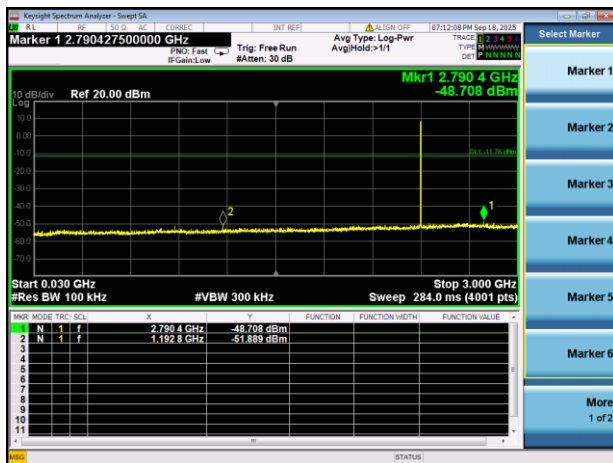
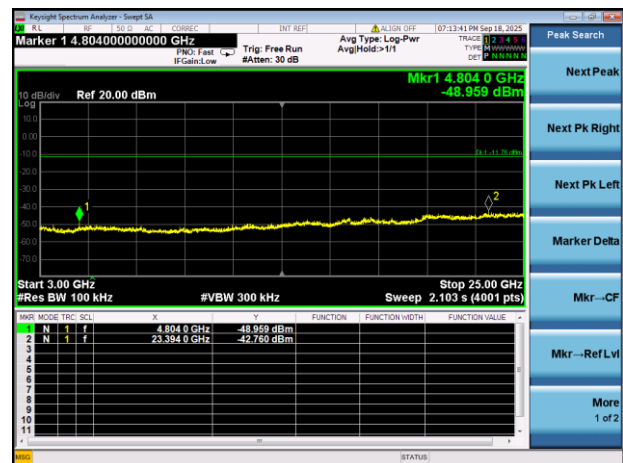
Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-43.04	9.87	-10.13	Pass
8-DPSK	-43.60	8.44	-11.56	Pass

Test Plots

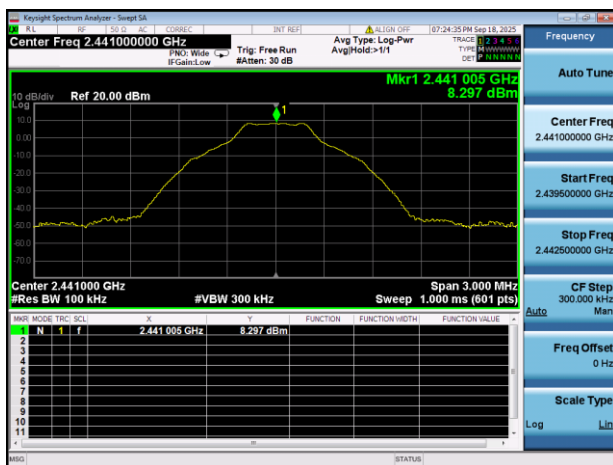
GFSK LOW CHANNEL, CARRIER LEVEL



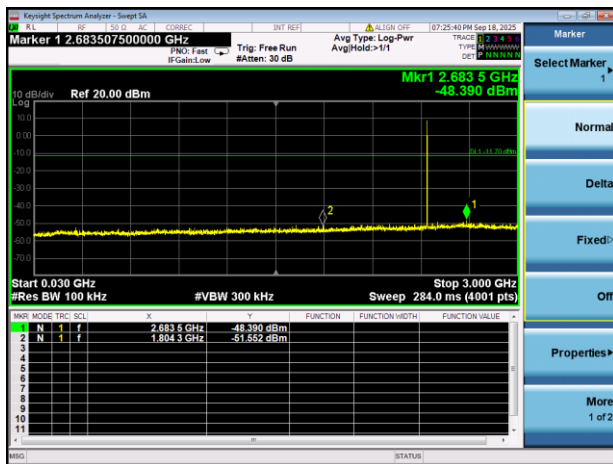
GFSK LOW CHANNEL, BAND EDGE

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

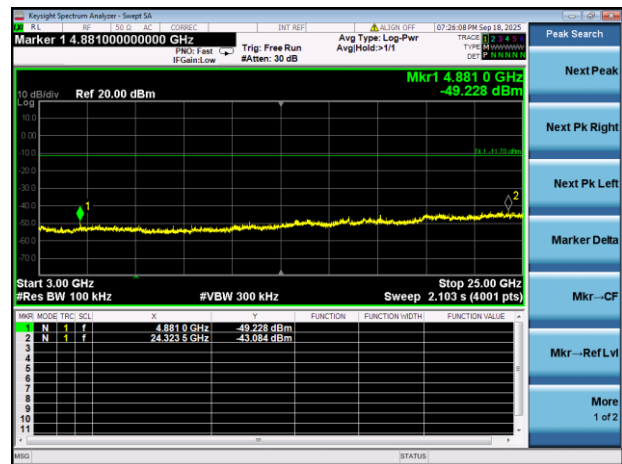
GFSK MIDDLE CHANNEL, CARRIER LEVEL



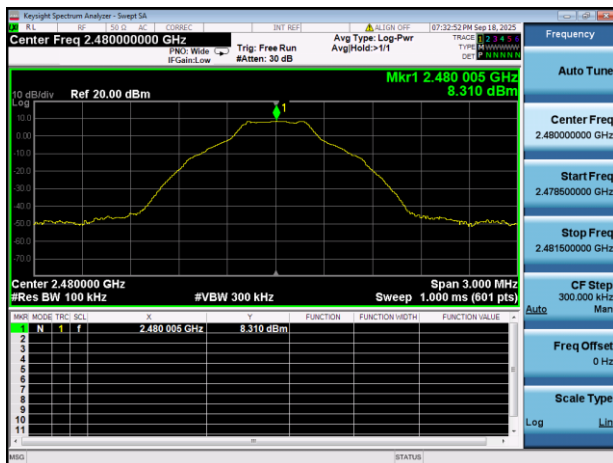
GFSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



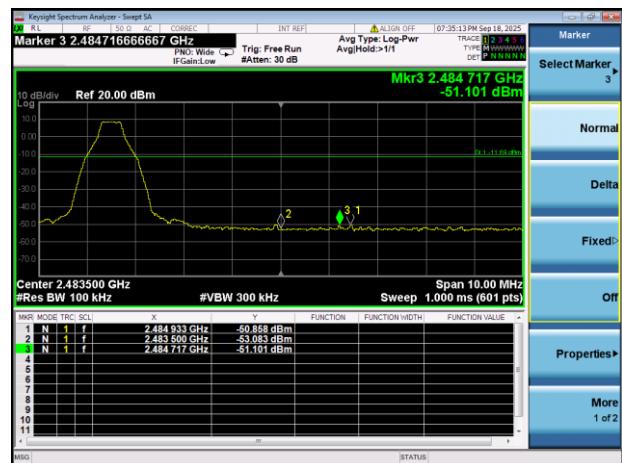
GFSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



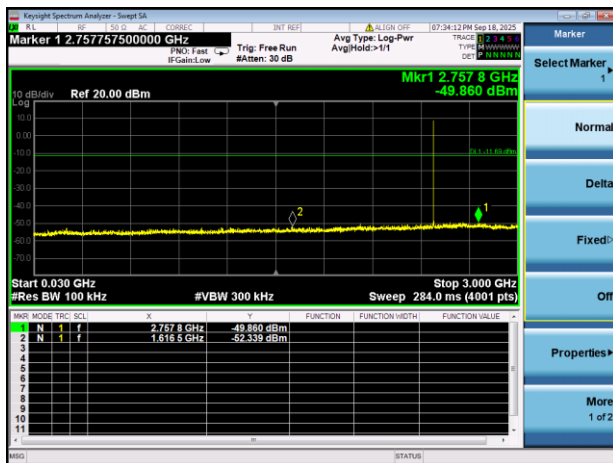
GFSK HIGH CHANNEL, CARRIER LEVEL



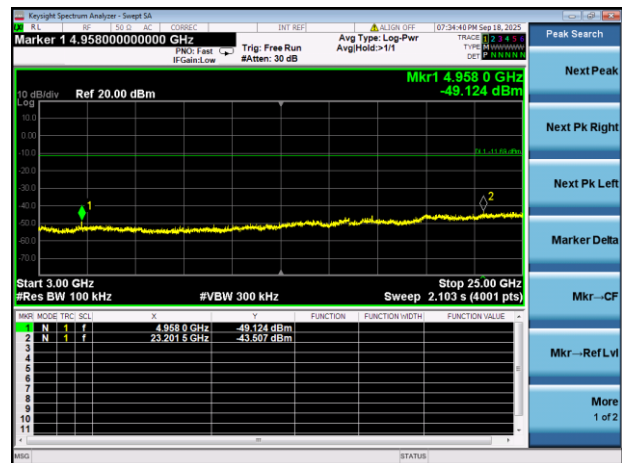
GFSK HIGH CHANNEL, BAND EDGE



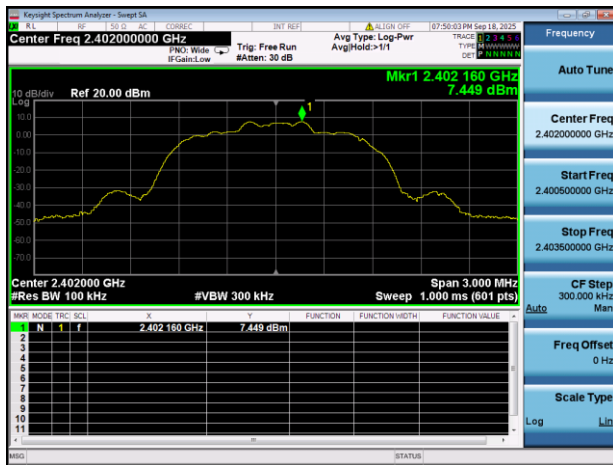
GFSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



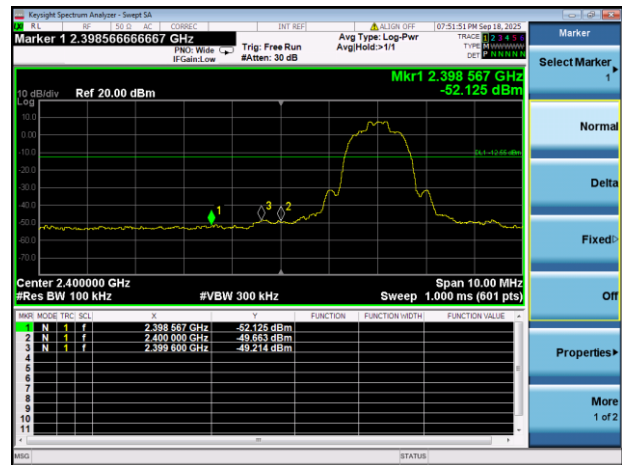
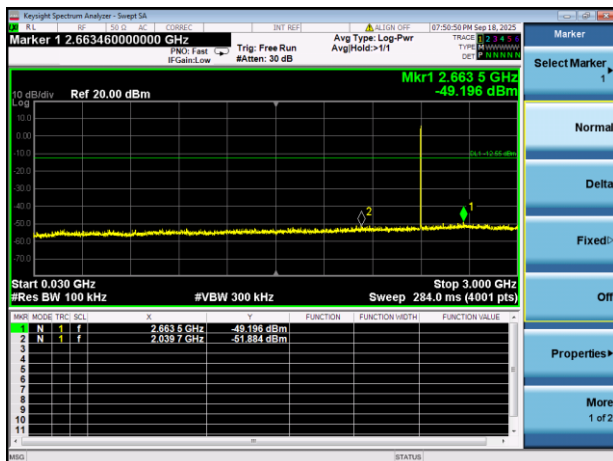
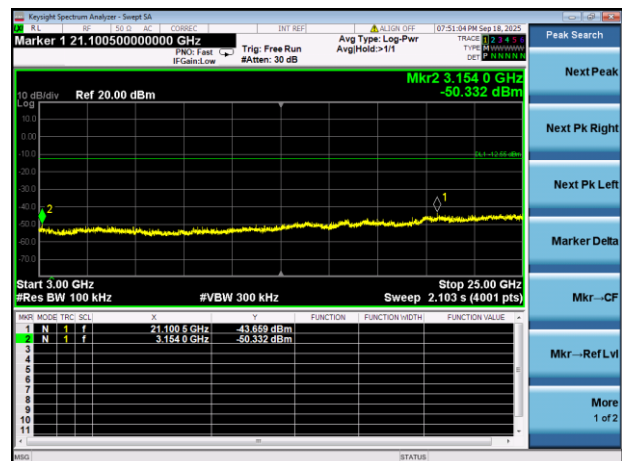
GFSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



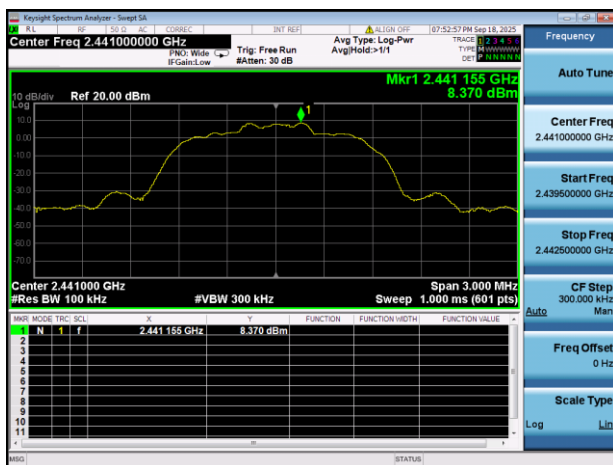
8-DPSK LOW CHANNEL, CARRIER LEVEL



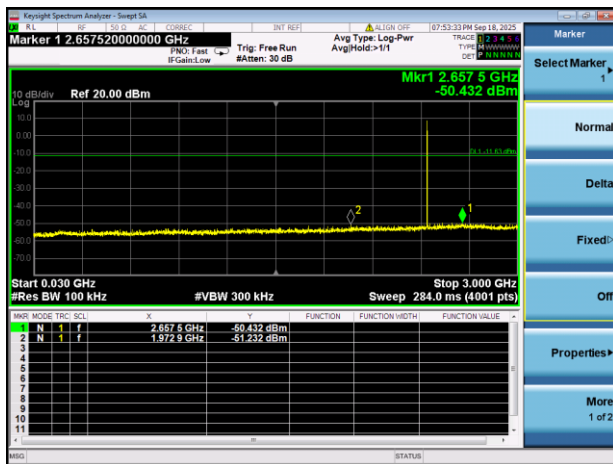
8-DPSK LOW CHANNEL, BAND EDGE

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

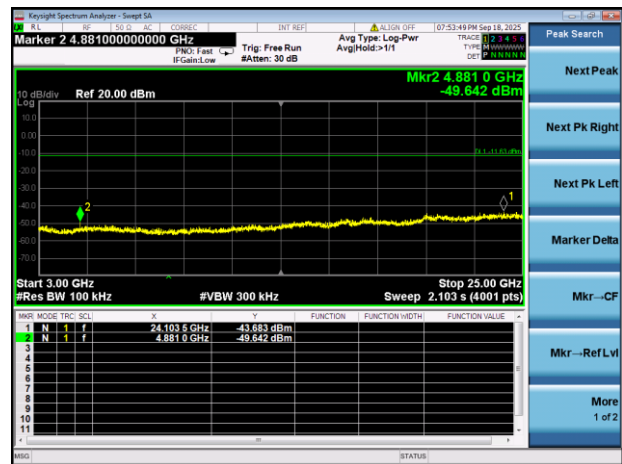
8-DPSK MIDDLE CHANNEL, CARRIER LEVEL



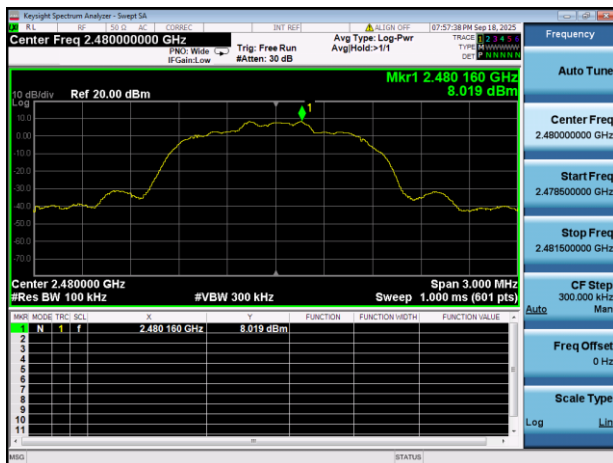
8-DPSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



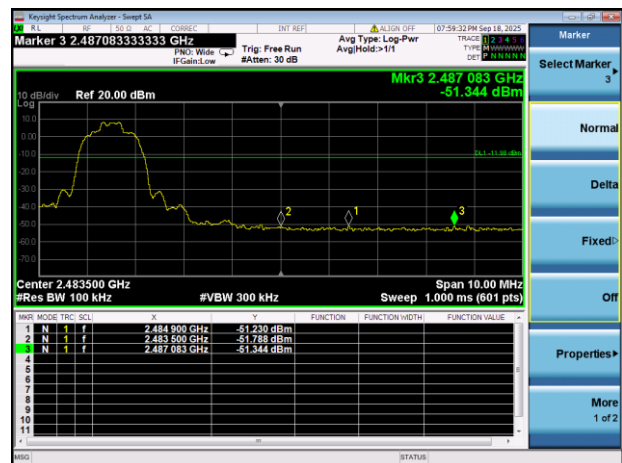
8-DPSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



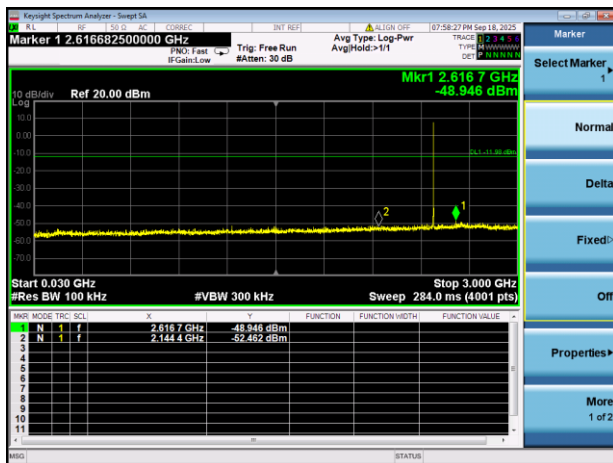
8-DPSK HIGH CHANNEL, CARRIER LEVEL



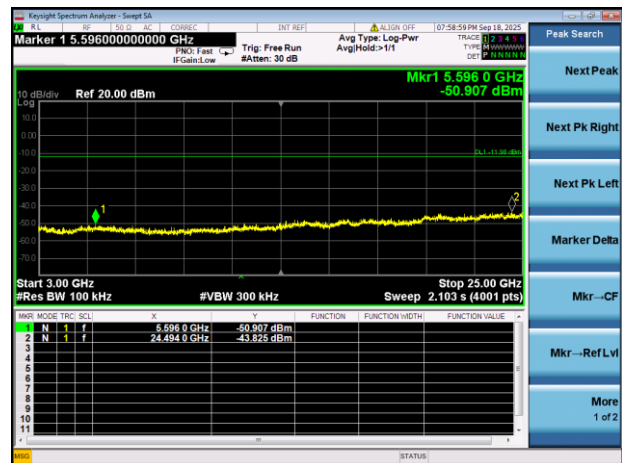
8-DPSK HIGH CHANNEL, BAND EDGE



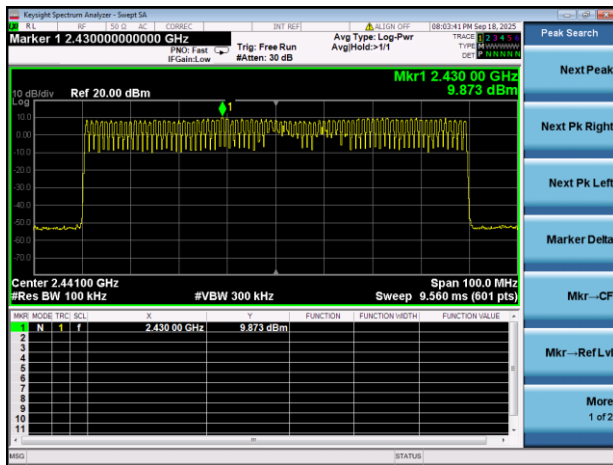
8-DPSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



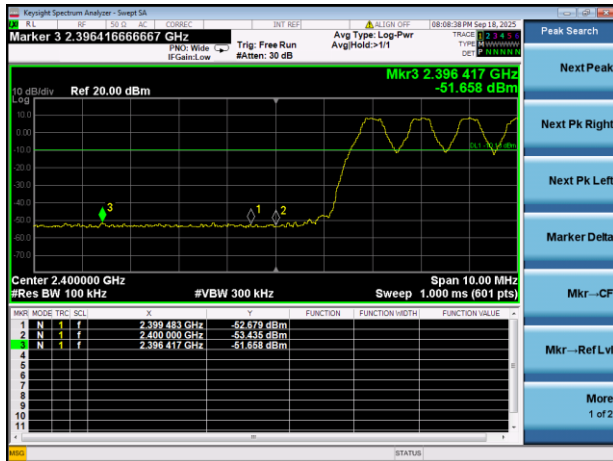
8-DPSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



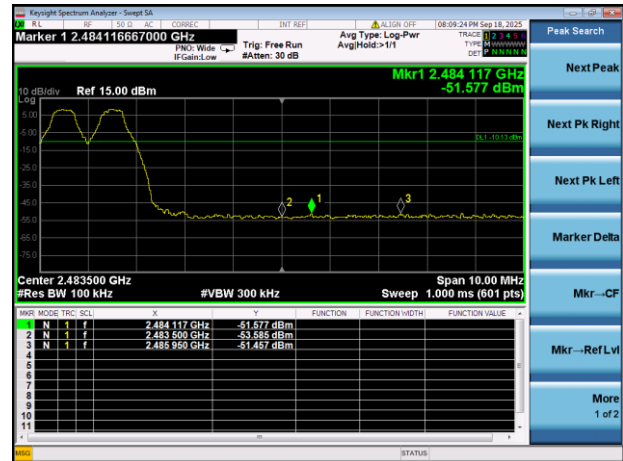
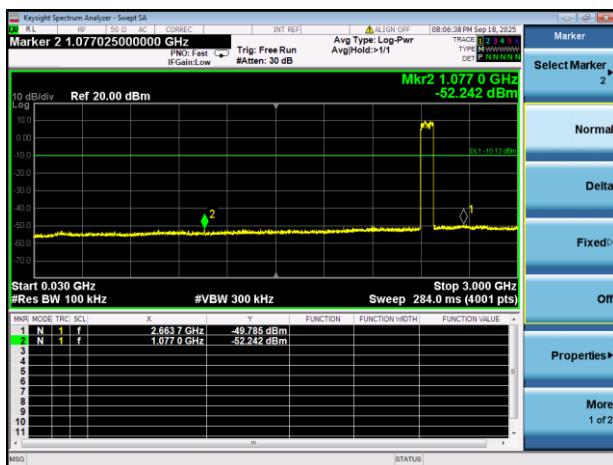
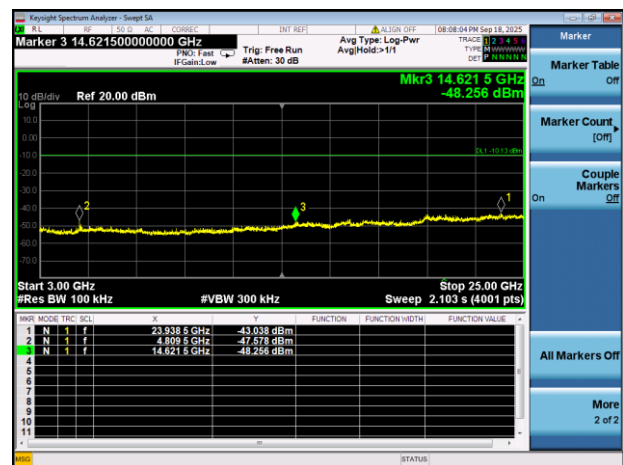
GFSK HOPPING, CARRIER LEVEL



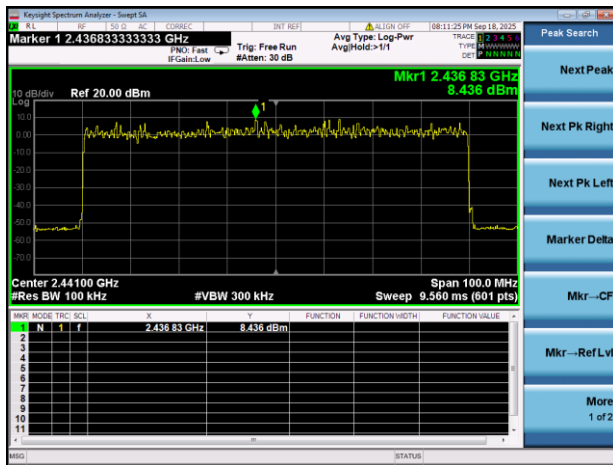
GFSK HOPPING BAND EDGE (LOW)



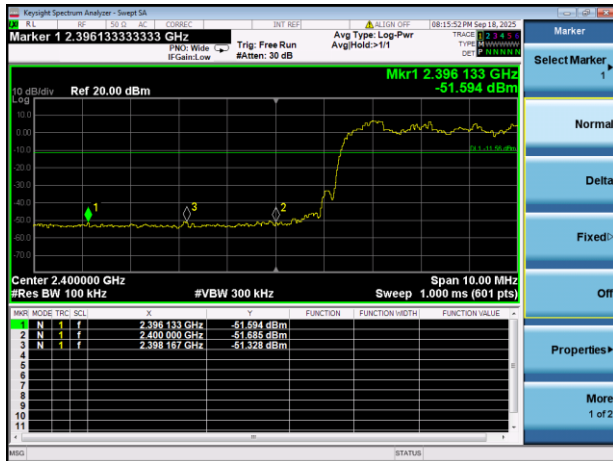
GFSK HOPPING BAND EDGE (HIGH)

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

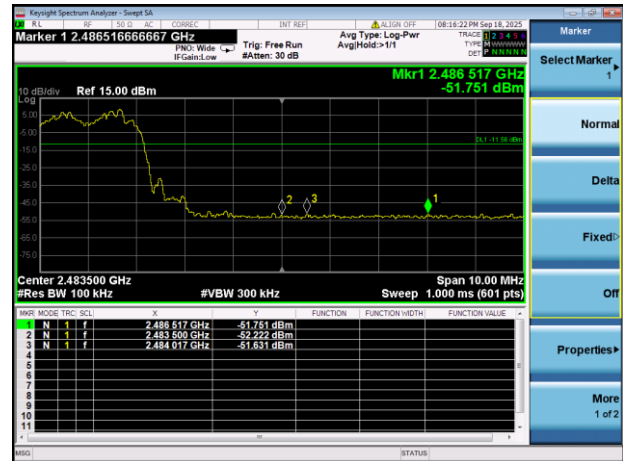
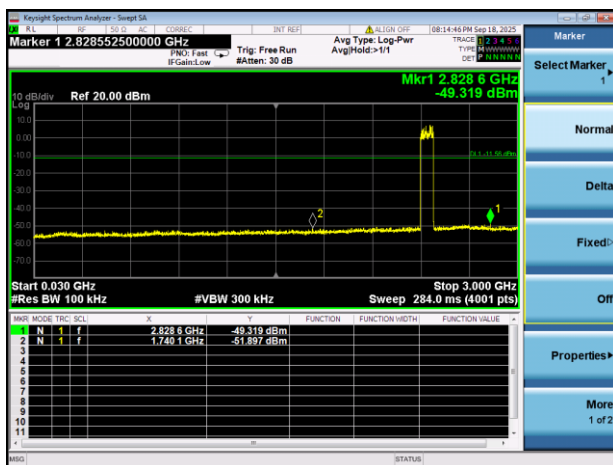
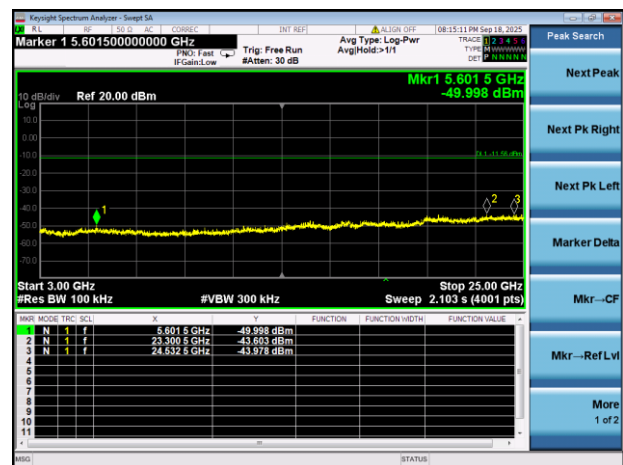
8-DPSK HOPPING, CARRIER LEVEL



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 Emissions

Note¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

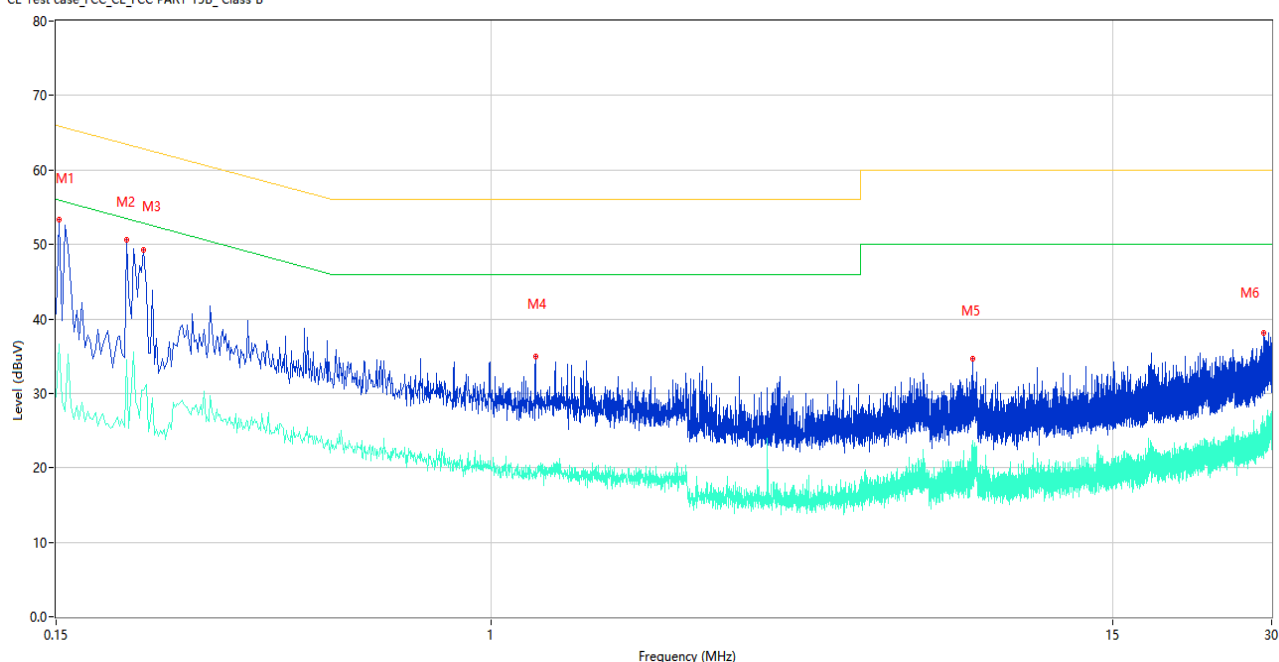
Note²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Note³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Test Data and Plots

PHASE L

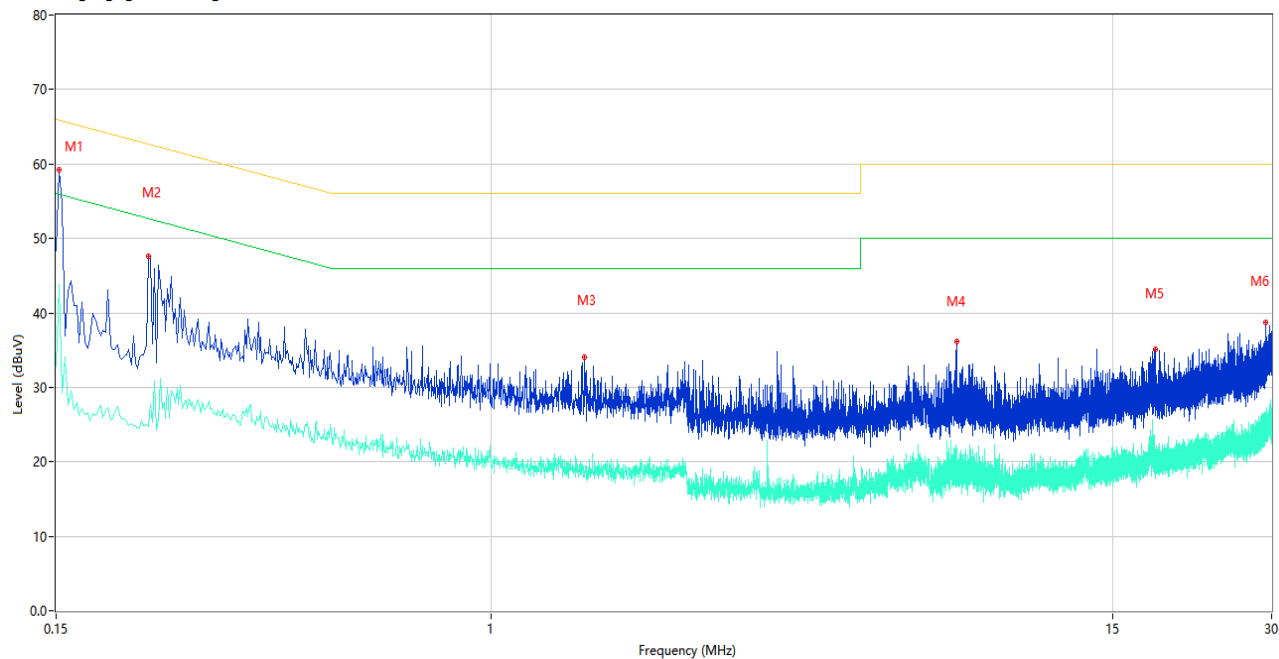
CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	53.27	10.30	65.89	12.62	Peak	L	Pass
1**	0.152	36.56	10.30	55.89	19.33	AV	L	Pass
2	0.204	50.58	10.27	63.45	12.87	Peak	L	Pass
2**	0.204	34.55	10.27	53.45	18.90	AV	L	Pass
3	0.220	49.21	10.27	62.82	13.61	Peak	L	Pass
3**	0.220	30.37	10.27	52.82	22.45	AV	L	Pass
4	1.212	34.88	10.35	56.00	21.12	Peak	L	Pass
4**	1.212	19.91	10.35	46.00	26.09	AV	L	Pass
5	8.164	34.60	11.47	60.00	25.40	Peak	L	Pass
5**	8.164	19.03	11.47	50.00	30.97	AV	L	Pass
6	28.918	38.17	16.22	60.00	21.83	Peak	L	Pass
6**	28.918	23.08	16.22	50.00	26.92	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	59.25	10.21	65.89	6.64	Peak	N	Pass
1**	0.152	43.87	10.21	55.89	12.02	AV	N	Pass
2	0.224	47.62	10.18	62.67	15.05	Peak	N	Pass
2**	0.224	24.72	10.18	52.67	27.95	AV	N	Pass
3	1.500	34.05	10.29	56.00	21.95	Peak	N	Pass
3**	1.500	18.42	10.29	46.00	27.58	AV	N	Pass
4	7.594	36.12	11.26	60.00	23.88	Peak	N	Pass
4**	7.594	21.81	11.26	50.00	28.19	AV	N	Pass
5	18.056	35.06	13.92	60.00	24.94	Peak	N	Pass
5**	18.056	20.48	13.92	50.00	29.52	AV	N	Pass
6	29.242	38.68	16.32	60.00	21.32	Peak	N	Pass
6**	29.242	25.32	16.32	50.00	24.68	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 and DH5-Hopping mode is the worst.

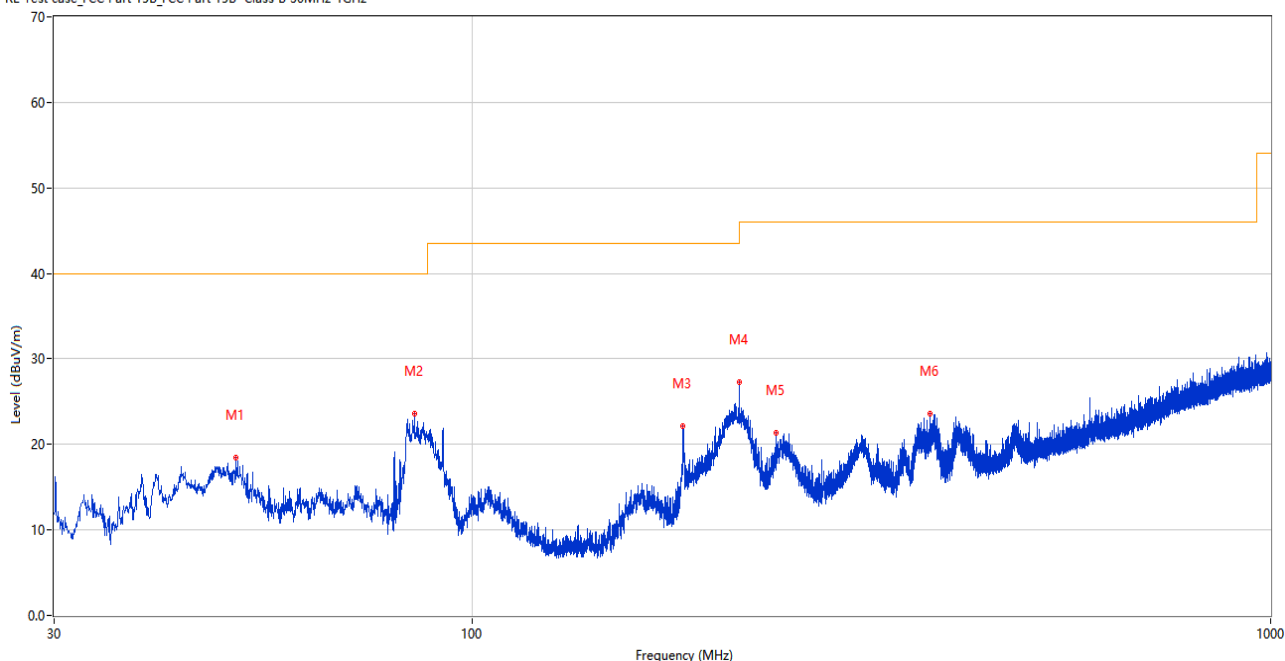
Note ⁴: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

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

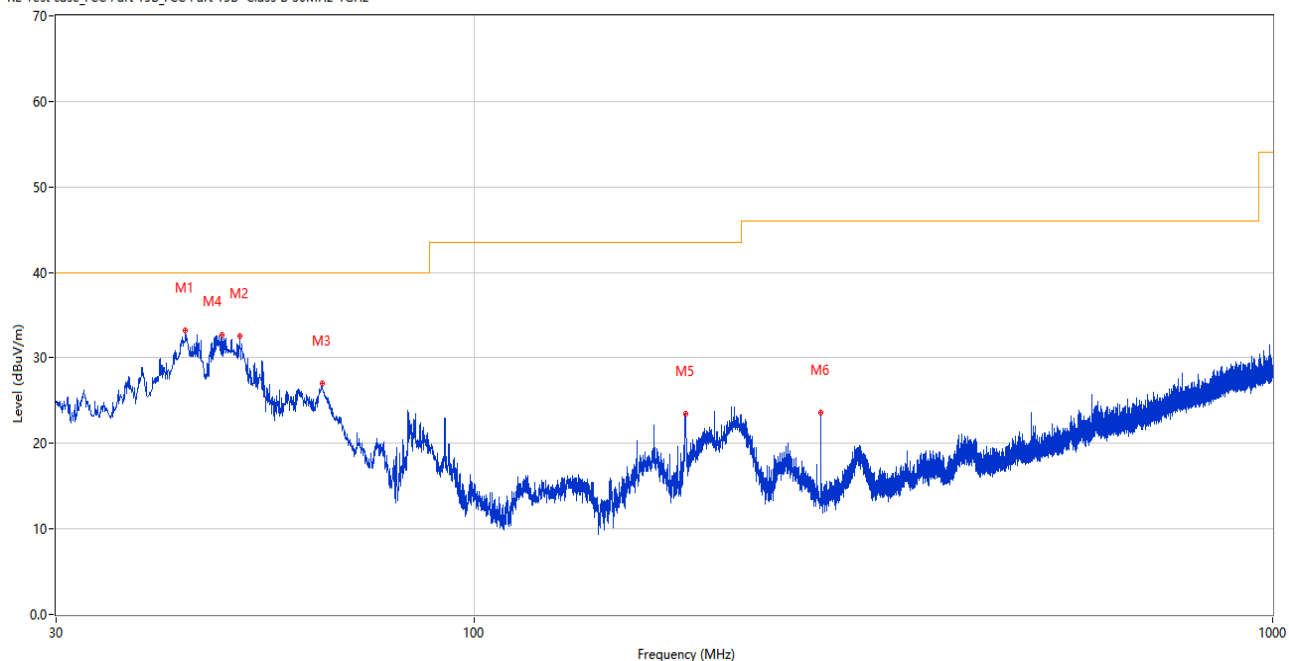
RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	50.709	18.44	-25.03	40.0	21.56	Peak	321.00	100	Horizontal	Pass
2	84.757	23.59	-30.19	40.0	16.41	Peak	311.00	200	Horizontal	Pass
3	183.842	22.12	-27.78	43.5	21.38	Peak	227.00	100	Horizontal	Pass
4	216.046	27.25	-26.51	46.0	18.75	Peak	238.00	200	Horizontal	Pass
5	240.199	21.39	-25.24	46.0	24.61	Peak	220.00	100	Horizontal	Pass
6	374.447	23.63	-21.73	46.0	22.37	Peak	201.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	43.580	33.17	-25.20	40.0	6.83	Peak	159.00	100	Vertical	Pass
2	50.952	32.60	-24.60	40.0	7.40	Peak	3.00	100	Vertical	Pass
3	64.532	27.04	-26.64	40.0	12.96	Peak	8.00	100	Vertical	Pass
4	48.430	32.66	-25.35	40.0	7.34	Peak	151.00	100	Vertical	Pass
5	184.182	23.49	-27.78	43.5	20.01	Peak	260.00	100	Vertical	Pass
6	272.015	23.58	-24.48	46.0	22.42	Peak	20.00	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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1697.600	42.50	-17.34	74.0	31.50	Peak	0.00	200	Horizontal	Pass
1**	1697.600	33.26	-17.34	54.0	20.74	AV	0.00	200	Horizontal	Pass
2	2401.900	90.09	-13.34	74.0	-16.09	Peak	261.00	100	Horizontal	N/A
2**	2401.900	89.91	-13.34	54.0	-35.91	AV	261.00	100	Horizontal	N/A
3	2974.100	51.44	-10.19	74.0	22.56	Peak	0.00	200	Horizontal	Pass
3**	2974.100	42.13	-10.19	54.0	11.87	AV	0.00	200	Horizontal	Pass
4	4932.400	50.35	-3.70	74.0	23.65	Peak	324.00	300	Horizontal	Pass
4**	4932.400	41.04	-3.70	54.0	12.96	AV	324.00	300	Horizontal	Pass
5	6959.200	53.27	-0.43	74.0	20.73	Peak	1.00	300	Horizontal	Pass
5**	6959.200	44.27	-0.43	54.0	9.73	AV	1.00	300	Horizontal	Pass
6	15655.612	54.59	4.95	74.0	19.41	Peak	0.00	300	Horizontal	Pass
6**	15655.612	42.71	4.95	54.0	11.29	AV	0.00	300	Horizontal	Pass

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1579.700	42.39	-17.47	74.0	31.61	Peak	330.00	200	Vertical	Pass
1**	1579.700	32.91	-17.47	54.0	21.09	AV	330.00	200	Vertical	Pass
2	2401.900	90.13	-13.34	74.0	-16.13	Peak	243.00	200	Vertical	N/A
2**	2401.900	89.95	-13.34	54.0	-35.95	AV	243.00	200	Vertical	N/A
3	2956.300	50.88	-10.07	74.0	23.12	Peak	290.00	100	Vertical	Pass
3**	2956.300	42.25	-10.07	54.0	11.75	AV	290.00	100	Vertical	Pass
4	4971.800	50.23	-3.65	74.0	23.77	Peak	56.00	200	Vertical	Pass
4**	4971.800	40.49	-3.65	54.0	13.51	AV	56.00	200	Vertical	Pass
5	6974.000	52.98	-0.35	74.0	21.02	Peak	345.00	200	Vertical	Pass
5**	6974.000	44.05	-0.35	54.0	9.95	AV	345.00	200	Vertical	Pass
6	16308.975	53.67	4.75	74.0	20.33	Peak	73.00	300	Vertical	Pass
6**	16308.975	43.91	4.75	54.0	10.09	AV	73.00	300	Vertical	Pass

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	1417.400	42.54	-17.26	74.0	31.46	Peak	256.00	400	Horizontal	Pass
1**	1417.400	32.32	-17.26	54.0	21.68	AV	256.00	400	Horizontal	Pass
2	2440.800	88.49	-11.72	74.0	-14.49	Peak	262.00	100	Horizontal	N/A
2**	2440.800	88.11	-11.72	54.0	-34.11	AV	262.00	100	Horizontal	N/A
3	2958.300	51.56	-10.07	74.0	22.44	Peak	360.00	150	Horizontal	Pass
3**	2958.300	41.68	-10.07	54.0	12.32	AV	360.00	150	Horizontal	Pass
4	4924.200	49.96	-3.61	74.0	24.04	Peak	86.00	400	Horizontal	Pass
4**	4924.200	40.57	-3.61	54.0	13.43	AV	86.00	400	Horizontal	Pass
5	6944.200	53.90	-0.51	74.0	20.10	Peak	220.00	300	Horizontal	Pass
5**	6944.200	43.72	-0.51	54.0	10.28	AV	220.00	300	Horizontal	Pass
6	16243.875	53.77	5.40	74.0	20.23	Peak	359.00	400	Horizontal	Pass
6**	16243.875	44.85	5.40	54.0	9.15	AV	359.00	400	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1588.600	42.32	-17.59	74.0	31.68	Peak	200.00	100	Vertical	Pass
1**	1588.600	32.18	-17.59	54.0	21.82	AV	200.00	100	Vertical	Pass
2	2440.800	88.65	-11.72	74.0	-14.65	Peak	241.00	100	Vertical	N/A
2**	2440.800	88.29	-11.72	54.0	-34.29	AV	241.00	100	Vertical	N/A
3	2977.600	50.66	-10.24	74.0	23.34	Peak	15.00	100	Vertical	Pass
3**	2977.600	42.38	-10.24	54.0	11.62	AV	15.00	100	Vertical	Pass
4	4800.600	50.10	-3.47	74.0	23.90	Peak	282.00	400	Vertical	Pass
4**	4800.600	40.36	-3.47	54.0	13.64	AV	282.00	400	Vertical	Pass
5	6944.600	52.80	-0.51	74.0	21.20	Peak	0.00	100	Vertical	Pass
5**	6944.600	43.22	-0.51	54.0	10.78	AV	0.00	100	Vertical	Pass
6	16235.475	53.46	5.25	74.0	20.54	Peak	234.00	100	Vertical	Pass
6**	16235.475	44.88	5.25	54.0	9.12	AV	234.00	100	Vertical	Pass

GFSK HIGH 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	1657.000	42.05	-17.28	74.0	31.95	Peak	163.00	100	Horizontal	Pass
1**	1657.000	32.82	-17.28	54.0	21.18	AV	163.00	100	Horizontal	Pass
2	2479.800	85.57	-12.61	74.0	-11.57	Peak	182.00	150	Horizontal	N/A
2**	2479.800	85.21	-12.61	54.0	-31.21	AV	182.00	150	Horizontal	N/A
3	2995.900	50.87	-9.93	74.0	23.13	Peak	182.00	150	Horizontal	Pass
3**	2995.900	41.79	-9.93	54.0	12.21	AV	182.00	150	Horizontal	Pass
4	4862.600	49.92	-3.24	74.0	24.08	Peak	344.00	100	Horizontal	Pass
4**	4862.600	40.77	-3.24	54.0	13.23	AV	344.00	100	Horizontal	Pass
5	6590.400	53.29	-0.96	74.0	20.71	Peak	352.00	100	Horizontal	Pass
5**	6590.400	43.39	-0.96	54.0	10.61	AV	352.00	100	Horizontal	Pass
6	16100.550	53.72	5.61	74.0	20.28	Peak	255.00	200	Horizontal	Pass
6**	16100.550	45.33	5.61	54.0	8.67	AV	255.00	200	Horizontal	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1621.400	42.08	-17.49	74.0	31.92	Peak	311.00	300	Vertical	Pass
1**	1621.400	32.66	-17.49	54.0	21.34	AV	311.00	300	Vertical	Pass
2	2479.900	85.87	-12.61	74.0	-11.87	Peak	252.00	200	Vertical	N/A
2**	2479.900	85.63	-12.61	54.0	-31.63	AV	252.00	200	Vertical	N/A
3	2978.400	50.38	-10.26	74.0	23.62	Peak	262.00	150	Vertical	Pass
3**	2978.400	41.00	-10.26	54.0	13.00	AV	262.00	150	Vertical	Pass
4	4905.600	50.53	-3.41	74.0	23.47	Peak	356.00	400	Vertical	Pass
4**	4905.600	41.04	-3.41	54.0	12.96	AV	356.00	400	Vertical	Pass
5	6945.600	53.26	-0.55	74.0	20.74	Peak	305.00	200	Vertical	Pass
5**	6945.600	45.27	-0.55	54.0	8.73	AV	305.00	200	Vertical	Pass
6	14758.651	53.85	4.70	74.0	20.15	Peak	321.00	300	Vertical	Pass
6**	14758.651	43.98	4.70	54.0	10.02	AV	321.00	300	Vertical	Pass

8-DPSK LOW 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	1675.600	42.68	-17.39	74.0	31.32	Peak	349.00	100	Horizontal	Pass
1**	1675.600	32.23	-17.39	54.0	21.77	AV	349.00	100	Horizontal	Pass
2	2402.000	86.51	-13.33	74.0	-12.51	Peak	272.00	150	Horizontal	N/A
2**	2402.000	86.36	-13.33	54.0	-32.36	AV	272.00	150	Horizontal	N/A
3	2999.600	50.97	-10.08	74.0	23.03	Peak	331.00	150	Horizontal	Pass
3**	2999.600	41.47	-10.08	54.0	12.53	AV	331.00	150	Horizontal	Pass
4	4943.200	49.54	-3.69	74.0	24.46	Peak	318.00	200	Horizontal	Pass
4**	4943.200	40.69	-3.69	54.0	13.31	AV	318.00	200	Horizontal	Pass
5	6825.200	53.26	-0.90	74.0	20.74	Peak	22.00	400	Horizontal	Pass
5**	6825.200	43.53	-0.90	54.0	10.47	AV	22.00	400	Horizontal	Pass
6	14769.150	54.06	4.95	74.0	19.94	Peak	124.00	400	Horizontal	Pass
6**	14769.150	44.41	4.95	54.0	9.59	AV	124.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1658.900	41.70	-17.24	74.0	32.30	Peak	71.00	300	Vertical	Pass
1**	1658.900	33.10	-17.24	54.0	20.90	AV	71.00	300	Vertical	Pass
2	2402.100	88.13	-13.32	74.0	-14.13	Peak	129.00	200	Vertical	N/A
2**	2402.100	87.78	-13.32	54.0	-33.78	AV	129.00	200	Vertical	N/A
3	2971.700	50.73	-10.22	74.0	23.27	Peak	322.00	150	Vertical	Pass
3**	2971.700	41.54	-10.22	54.0	12.46	AV	322.00	150	Vertical	Pass
4	4903.000	50.20	-3.52	74.0	23.80	Peak	318.00	400	Vertical	Pass
4**	4903.000	41.35	-3.52	54.0	12.65	AV	318.00	400	Vertical	Pass
5	6700.600	53.72	-1.23	74.0	20.28	Peak	191.00	100	Vertical	Pass
5**	6700.600	43.61	-1.23	54.0	10.39	AV	191.00	100	Vertical	Pass
6	14814.037	53.92	5.02	74.0	20.08	Peak	359.00	400	Vertical	Pass
6**	14814.037	44.50	5.02	54.0	9.50	AV	359.00	400	Vertical	Pass

8-DPSK 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	1573.300	42.68	-17.38	74.0	31.32	Peak	0.00	100	Horizontal	Pass
1**	1573.300	32.43	-17.38	54.0	21.57	AV	0.00	100	Horizontal	Pass
2	2440.600	85.06	-11.72	74.0	-11.06	Peak	265.00	150	Horizontal	N/A
2**	2440.600	82.32	-11.72	54.0	-28.32	AV	265.00	150	Horizontal	N/A
3	2987.800	51.01	-9.98	74.0	22.99	Peak	0.00	100	Horizontal	Pass
3**	2987.800	41.69	-9.98	54.0	12.31	AV	0.00	100	Horizontal	Pass
4	4885.200	49.94	-3.51	74.0	24.06	Peak	1.00	200	Horizontal	Pass
4**	4885.200	40.81	-3.51	54.0	13.19	AV	1.00	200	Horizontal	Pass
5	6874.200	53.24	-1.01	74.0	20.76	Peak	123.00	200	Horizontal	Pass
5**	6874.200	43.22	-1.01	54.0	10.78	AV	123.00	200	Horizontal	Pass
6	14770.725	53.92	4.94	74.0	20.08	Peak	126.00	200	Horizontal	Pass
6**	14770.725	45.28	4.94	54.0	8.72	AV	126.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1595.100	42.37	-17.68	74.0	31.63	Peak	150.00	300	Vertical	Pass
1**	1595.100	32.41	-17.68	54.0	21.59	AV	150.00	300	Vertical	Pass
2	2440.800	86.99	-11.72	74.0	-12.99	Peak	256.00	200	Vertical	N/A
2**	2440.800	85.23	-11.72	54.0	-31.23	AV	256.00	200	Vertical	N/A
3	2986.400	50.60	-10.04	74.0	23.40	Peak	101.00	150	Vertical	Pass
3**	2986.400	41.75	-10.04	54.0	12.25	AV	101.00	150	Vertical	Pass
4	4919.600	49.60	-3.59	74.0	24.40	Peak	226.00	200	Vertical	Pass
4**	4919.600	41.48	-3.59	54.0	12.52	AV	226.00	200	Vertical	Pass
5	6813.800	53.06	-0.89	74.0	20.94	Peak	238.00	400	Vertical	Pass
5**	6813.800	43.44	-0.89	54.0	10.56	AV	238.00	400	Vertical	Pass
6	15456.375	54.07	4.88	74.0	19.93	Peak	0.00	100	Vertical	Pass
6**	15456.375	44.47	4.88	54.0	9.53	AV	0.00	100	Vertical	Pass

8-DPSK HIGH 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	1682.200	42.28	-17.50	74.0	31.72	Peak	354.00	100	Horizontal	Pass
1**	1682.200	32.49	-17.50	54.0	21.51	AV	354.00	100	Horizontal	Pass
2	2480.000	83.72	-12.61	74.0	-9.72	Peak	244.00	200	Horizontal	N/A
2**	2480.000	83.16	-12.61	54.0	-29.16	AV	244.00	200	Horizontal	N/A
3	2974.400	50.53	-10.17	74.0	23.47	Peak	359.00	150	Horizontal	Pass
3**	2974.400	41.33	-10.17	54.0	12.67	AV	359.00	150	Horizontal	Pass
4	4929.600	49.76	-3.66	74.0	24.24	Peak	11.00	300	Horizontal	Pass
4**	4929.600	40.44	-3.66	54.0	13.56	AV	11.00	300	Horizontal	Pass
5	6497.800	52.78	-1.35	74.0	21.22	Peak	100.00	300	Horizontal	Pass
5**	6497.800	43.22	-1.35	54.0	10.78	AV	100.00	300	Horizontal	Pass
6	14767.838	54.43	4.95	74.0	19.57	Peak	4.00	300	Horizontal	Pass
6**	14767.838	45.21	4.95	54.0	8.79	AV	4.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.100	42.04	-17.47	74.0	31.96	Peak	218.00	300	Vertical	Pass
1**	1501.100	32.01	-17.47	54.0	21.99	AV	218.00	300	Vertical	Pass
2	2479.800	83.45	-12.61	74.0	-9.45	Peak	228.00	150	Vertical	N/A
2**	2479.800	82.36	-12.61	54.0	-28.36	AV	228.00	150	Vertical	N/A
3	2975.600	50.69	-10.16	74.0	23.31	Peak	209.00	150	Vertical	Pass
3**	2975.600	41.35	-10.16	54.0	12.65	AV	209.00	150	Vertical	Pass
4	4899.400	50.00	-3.51	74.0	24.00	Peak	339.00	300	Vertical	Pass
4**	4899.400	40.90	-3.51	54.0	13.10	AV	339.00	300	Vertical	Pass
5	6773.000	53.05	-1.03	74.0	20.95	Peak	123.00	400	Vertical	Pass
5**	6773.000	43.00	-1.03	54.0	11.00	AV	123.00	400	Vertical	Pass
6	16363.312	53.35	5.04	74.0	20.65	Peak	297.00	400	Vertical	Pass
6**	16363.312	43.29	5.04	54.0	10.71	AV	297.00	400	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.

Note ⁵: Both horizontal and vertical directions were pre tested, only the worst configuration has been reported in this report.

Test Data

GFSK LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2367.833	55.48	-0.58	74.0	18.52	Peak	323.00	400	Vertical	Pass
1**	2367.833	43.46	-0.58	54.0	10.54	AV	323.00	400	Vertical	Pass
2	2390.000	54.33	-1.15	74.0	19.67	Peak	45.00	200	Vertical	Pass
2**	2390.000	43.26	-1.15	54.0	10.74	AV	45.00	200	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	2483.550	54.19	-0.51	74.0	19.81	Peak	225.00	300	Vertical	Pass
1**	2483.550	43.77	-0.51	54.0	10.23	AV	225.00	300	Vertical	Pass
2	2488.900	55.77	-0.65	74.0	18.23	Peak	192.00	300	Vertical	Pass
2**	2488.900	43.57	-0.65	54.0	10.43	AV	192.00	300	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	2344.667	55.99	-0.66	74.0	18.01	Peak	326.00	300	Vertical	Pass
1**	2344.667	43.66	-0.66	54.0	10.34	AV	326.00	300	Vertical	Pass
2	2390.000	54.66	-1.15	74.0	19.34	Peak	201.00	300	Vertical	Pass
2**	2390.000	43.28	-1.15	54.0	10.72	AV	201.00	300	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	55.00	-0.51	74.0	19.00	Peak	235.00	400	Vertical	Pass
1**	2483.500	43.61	-0.51	54.0	10.39	AV	235.00	400	Vertical	Pass
2	2496.600	55.71	-0.62	74.0	18.29	Peak	308.00	400	Vertical	Pass
2**	2496.600	43.72	-0.62	54.0	10.28	AV	308.00	400	Vertical	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2590682-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2590682-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2590682-AI.PDF”.

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--END OF REPORT--