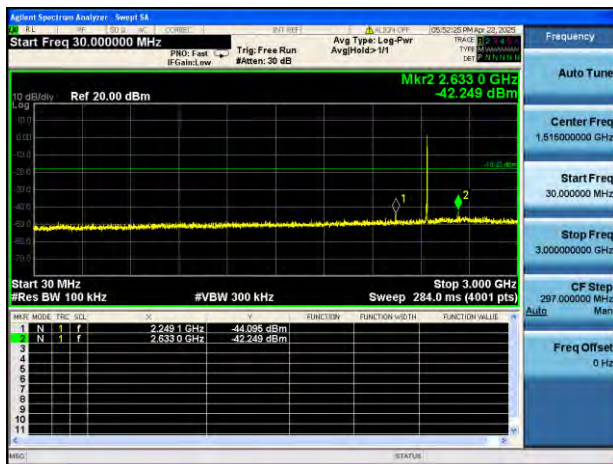
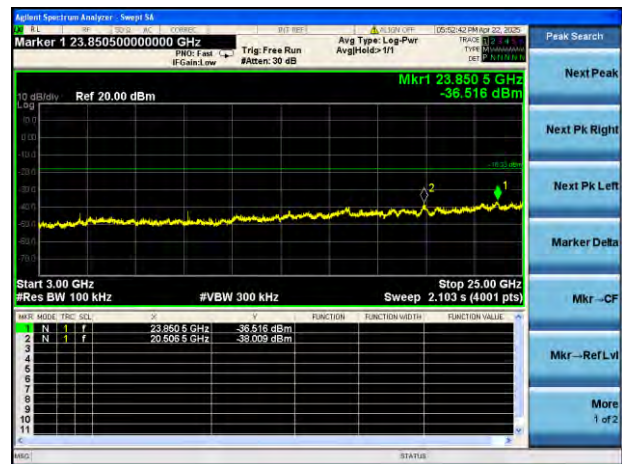


GFSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



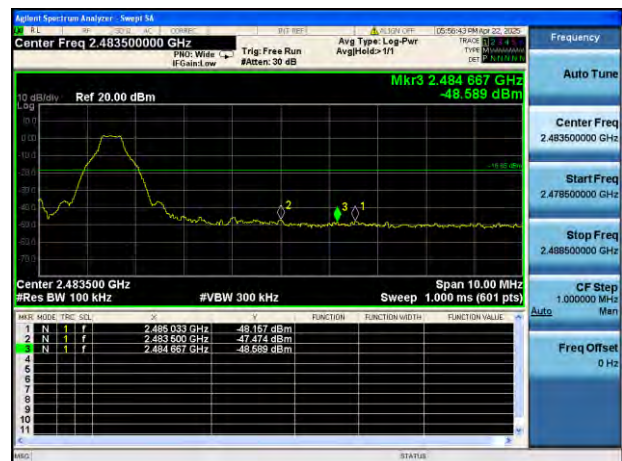
GFSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



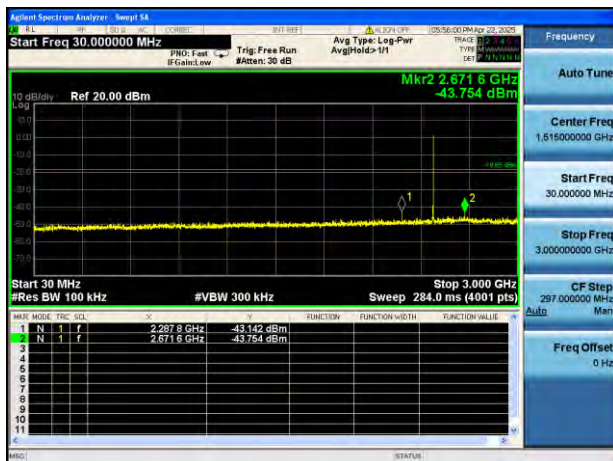
GFSK HIGH CHANNEL, CARRIER LEVEL



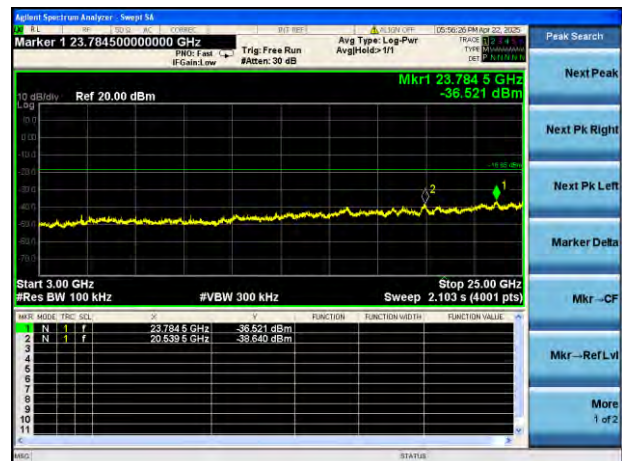
GFSK HIGH CHANNEL, BAND EDGE



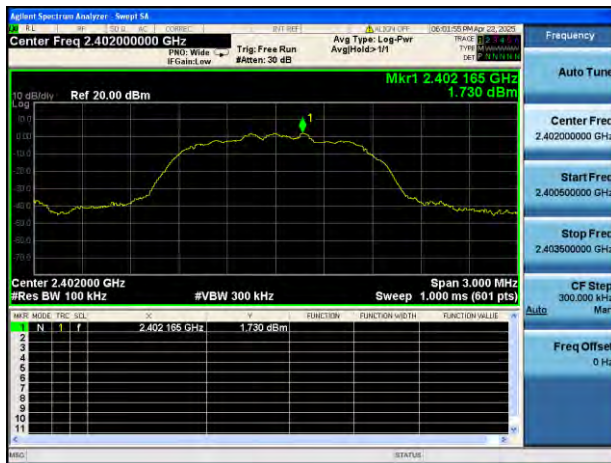
GFSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



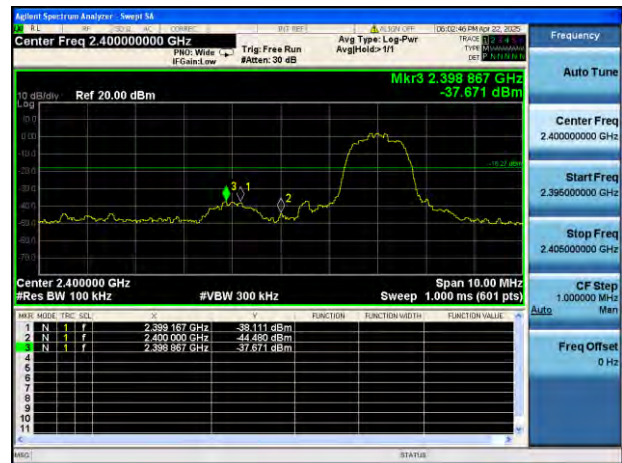
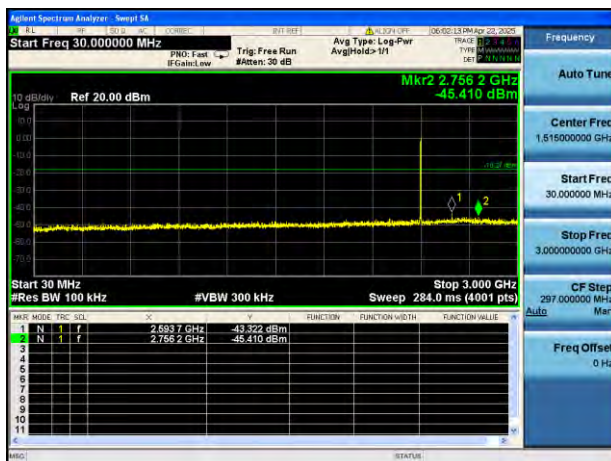
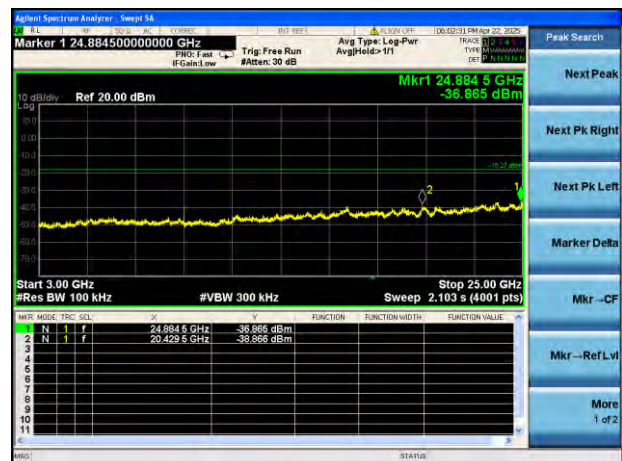
GFSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



8-DPSK LOW CHANNEL, CARRIER LEVEL



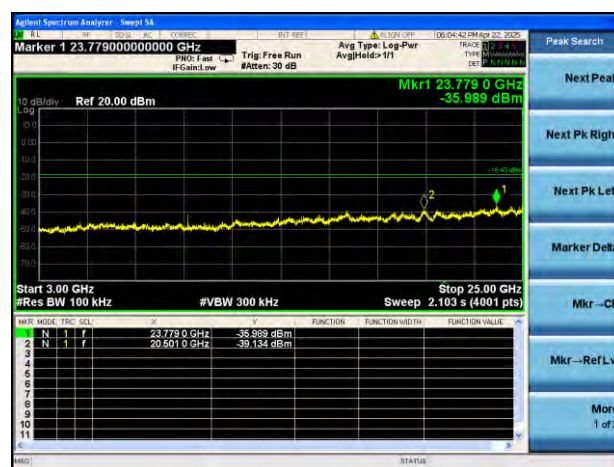
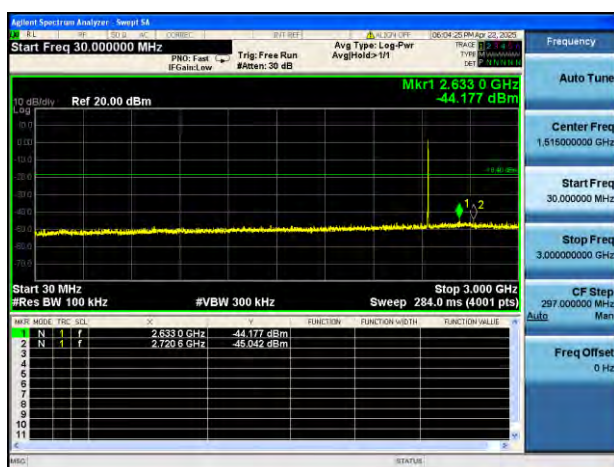
8-DPSK LOW CHANNEL, BAND EDGE

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

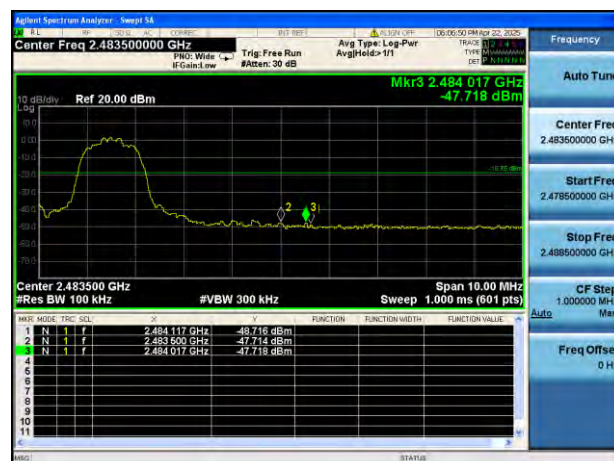
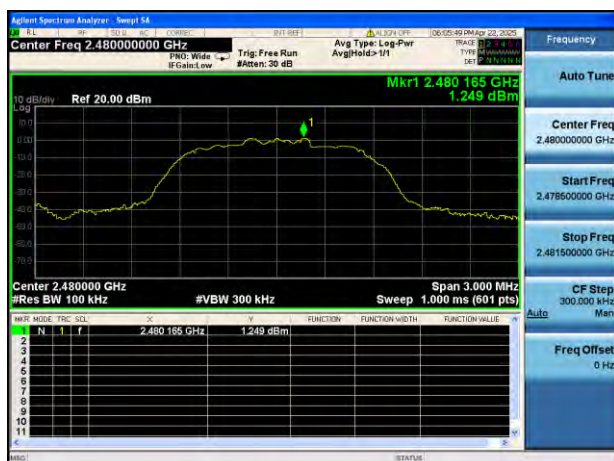
8-DPSK MIDDLE CHANNEL, CARRIER LEVEL



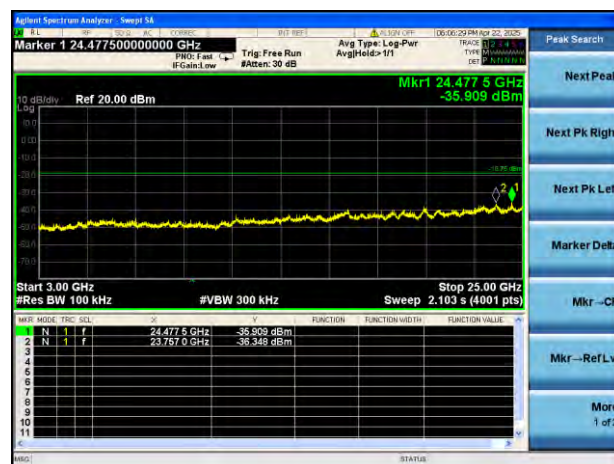
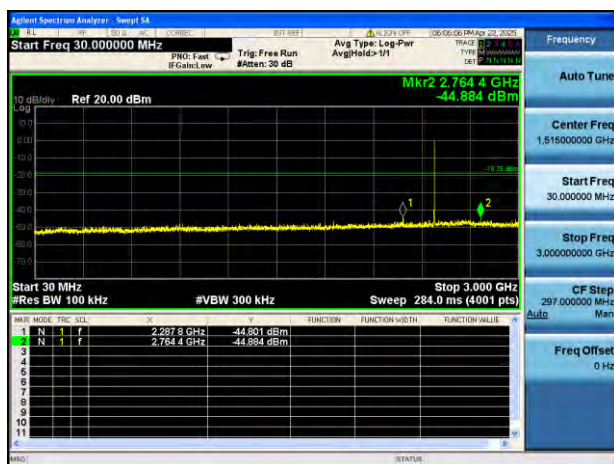
8-DPSK MIDDLE CHANNEL, SPURIOUS
3 GHz ~ 25 GHz



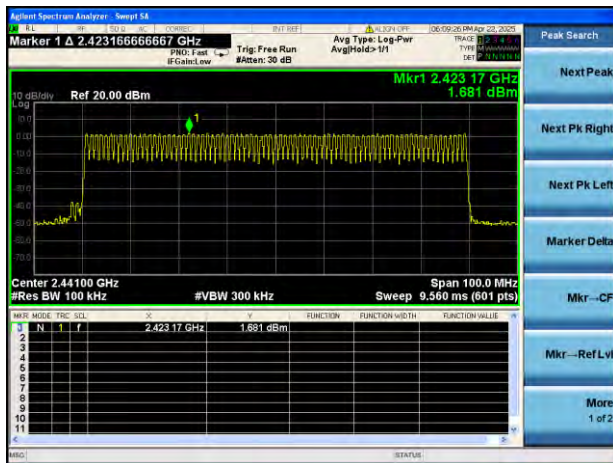
8-DPSK HIGH CHANNEL, BAND EDGE



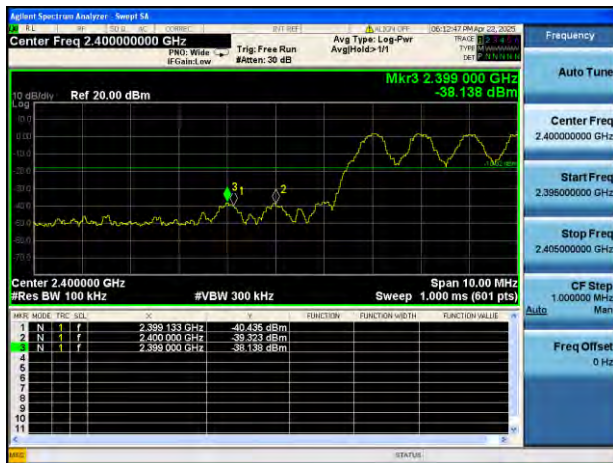
8-DPSK HIGH CHANNEL, SPURIOUS
3 GHz ~ 25 GHz



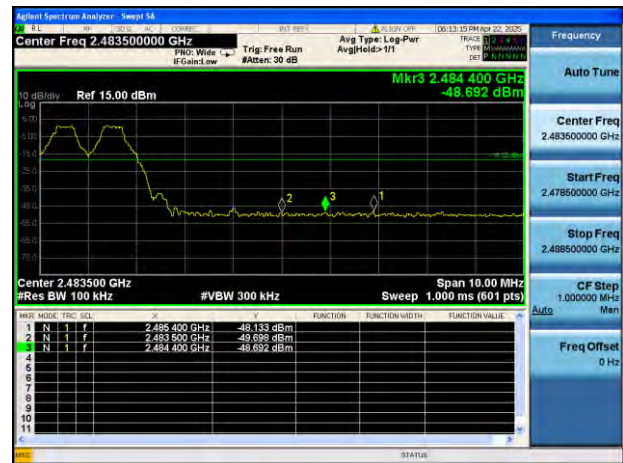
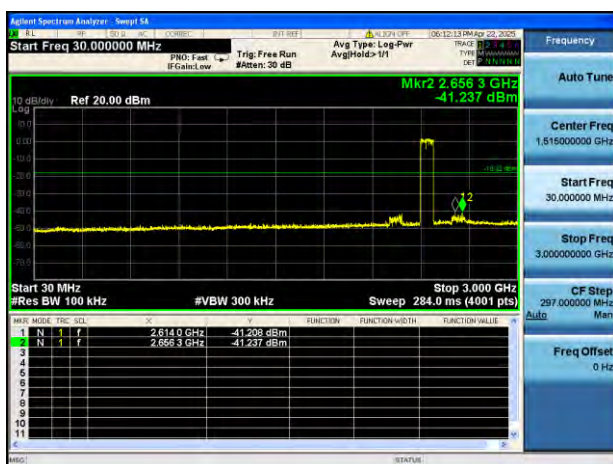
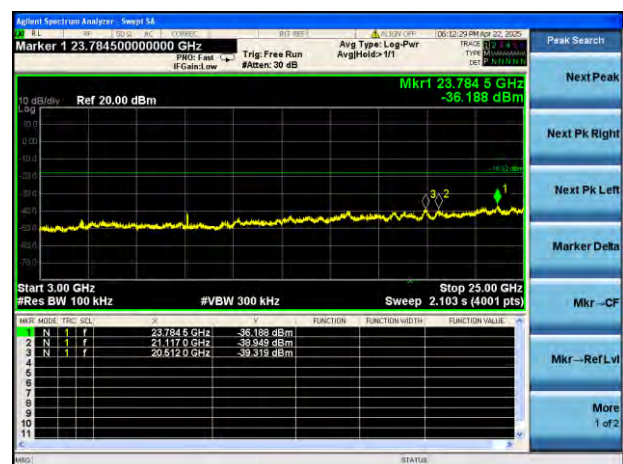
GFSK HOPPING, CARRIER LEVEL



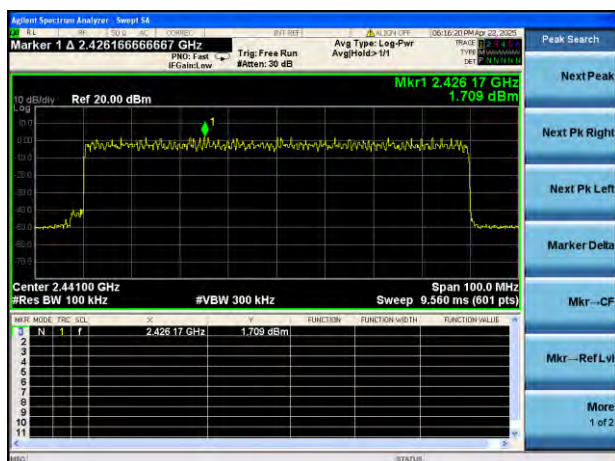
GFSK HOPPING BAND EDGE (LOW)



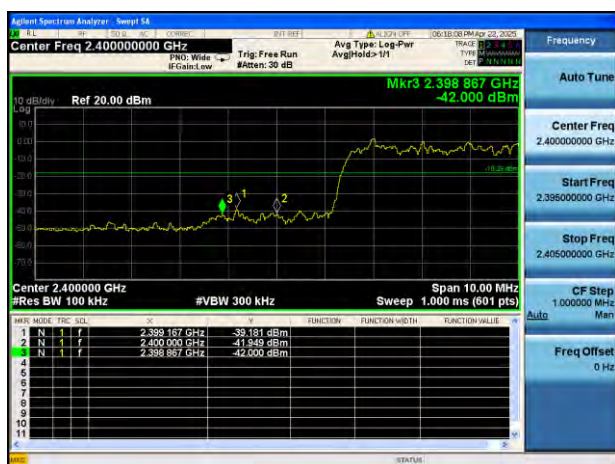
GFSK HOPPING BAND EDGE (HIGH)

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

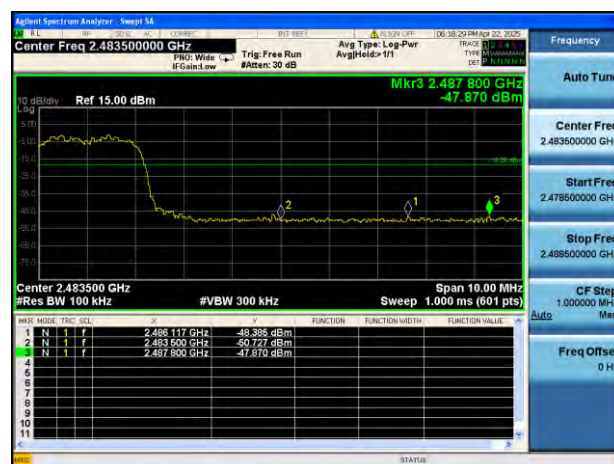
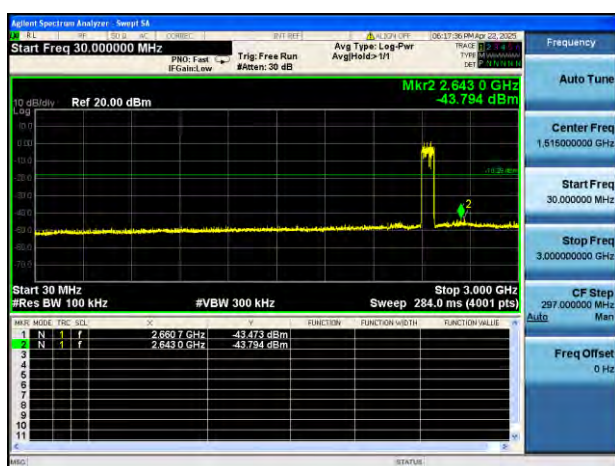
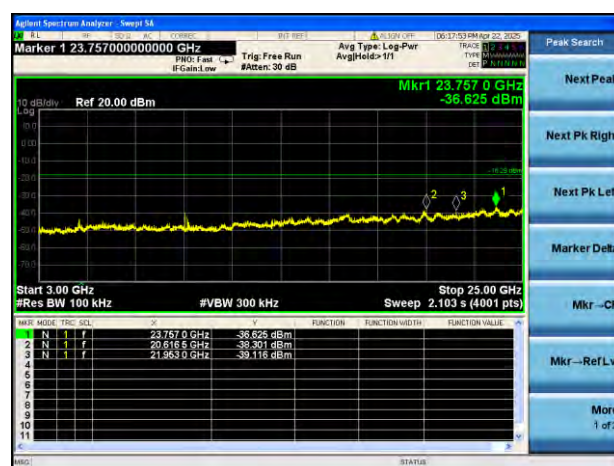
8-DPSK HOPPING, CARRIER LEVEL



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

5.9 Conducted Emission

5.9.1 Limit

FCC §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.9.2 Test Setup

See section 4.5.2 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX A.

5.9.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.9.4 Test Result

Note ¹: The EUT was tested in Link mode and the charging.

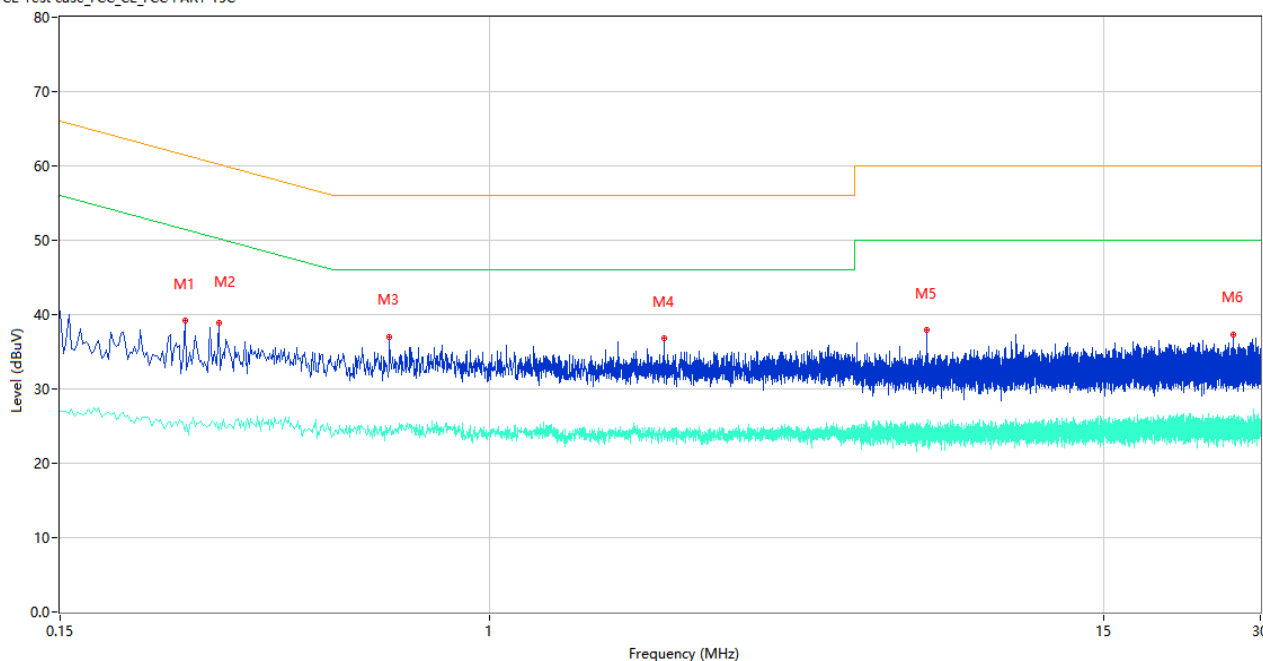
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

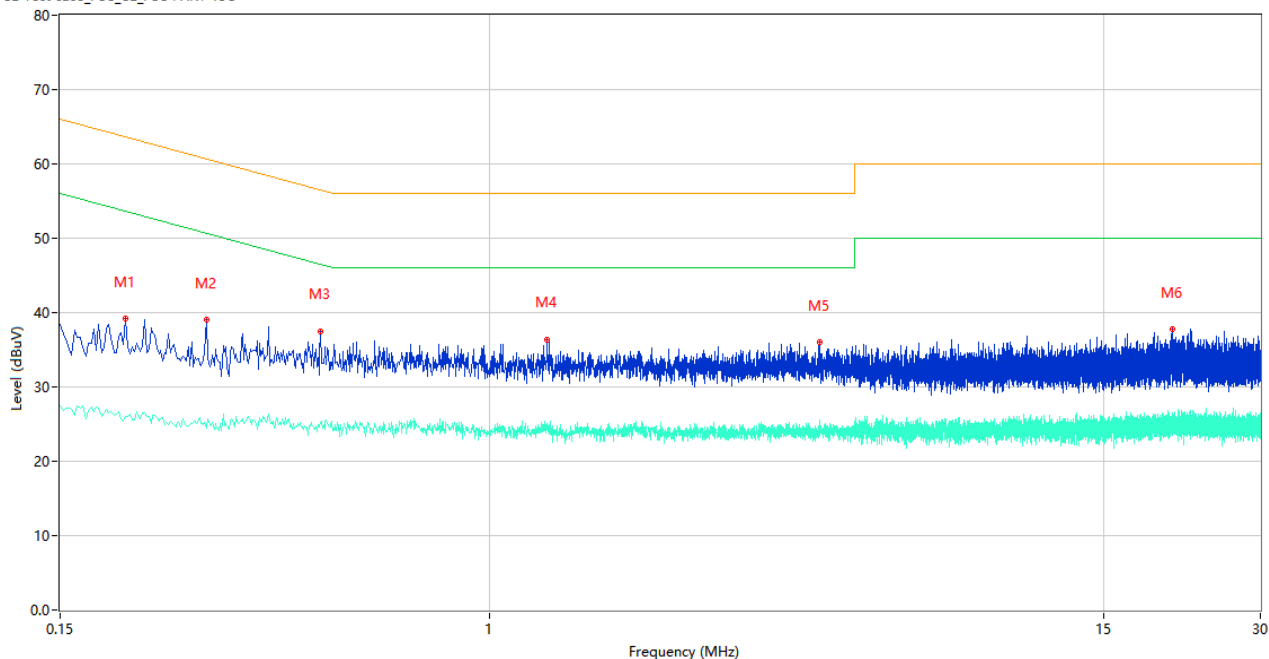
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.260	39.16	9.76	61.43	22.27	Peak	L	Pass
1**	0.260	24.35	9.76	51.43	27.08	AV	L	Pass
2	0.302	38.96	9.80	60.19	21.23	Peak	L	Pass
2**	0.302	24.41	9.80	50.19	25.78	AV	L	Pass
3	0.642	37.00	10.20	56.00	19.00	Peak	L	Pass
3**	0.642	24.44	10.20	46.00	21.56	AV	L	Pass
4	2.160	36.75	10.14	56.00	19.25	Peak	L	Pass
4**	2.160	24.74	10.14	46.00	21.26	AV	L	Pass
5	6.876	37.89	10.43	60.00	22.11	Peak	L	Pass
5**	6.876	25.27	10.43	50.00	24.73	AV	L	Pass
6	26.570	37.37	10.90	60.00	22.63	Peak	L	Pass
6**	26.570	25.66	10.90	50.00	24.34	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	0.200	39.18	9.77	63.61	24.43	Peak	N	Pass
1**	0.200	26.10	9.77	53.61	27.51	AV	N	Pass
2	0.286	39.00	9.76	60.64	21.64	Peak	N	Pass
2**	0.286	24.37	9.76	50.64	26.27	AV	N	Pass
3	0.474	37.52	10.00	56.44	18.92	Peak	N	Pass
3**	0.474	25.18	10.00	46.44	21.26	AV	N	Pass
4	1.286	36.36	10.50	56.00	19.64	Peak	N	Pass
4**	1.286	25.00	10.50	46.00	21.00	AV	N	Pass
5	4.298	35.96	10.41	56.00	20.04	Peak	N	Pass
5**	4.298	25.58	10.41	46.00	20.42	AV	N	Pass
6	20.400	37.74	10.98	60.00	22.26	Peak	N	Pass
6**	20.400	26.08	10.98	50.00	23.92	AV	N	Pass

5.10 Radiated Spurious Emission

5.10.1 Limit

FCC §15.209&15.247(d)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

1. Field Strength (dBμV/m) = 20*log[Field Strength (μV/m)].
2. In the emission tables above, the tighter limit applies at the band edges.
3. For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
4. For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

5.10.2 Test Setup

See section 4.5.3 to 4.5.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX A.

5.10.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.10.4 Test Result

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 was tested in Link mode and the charging.

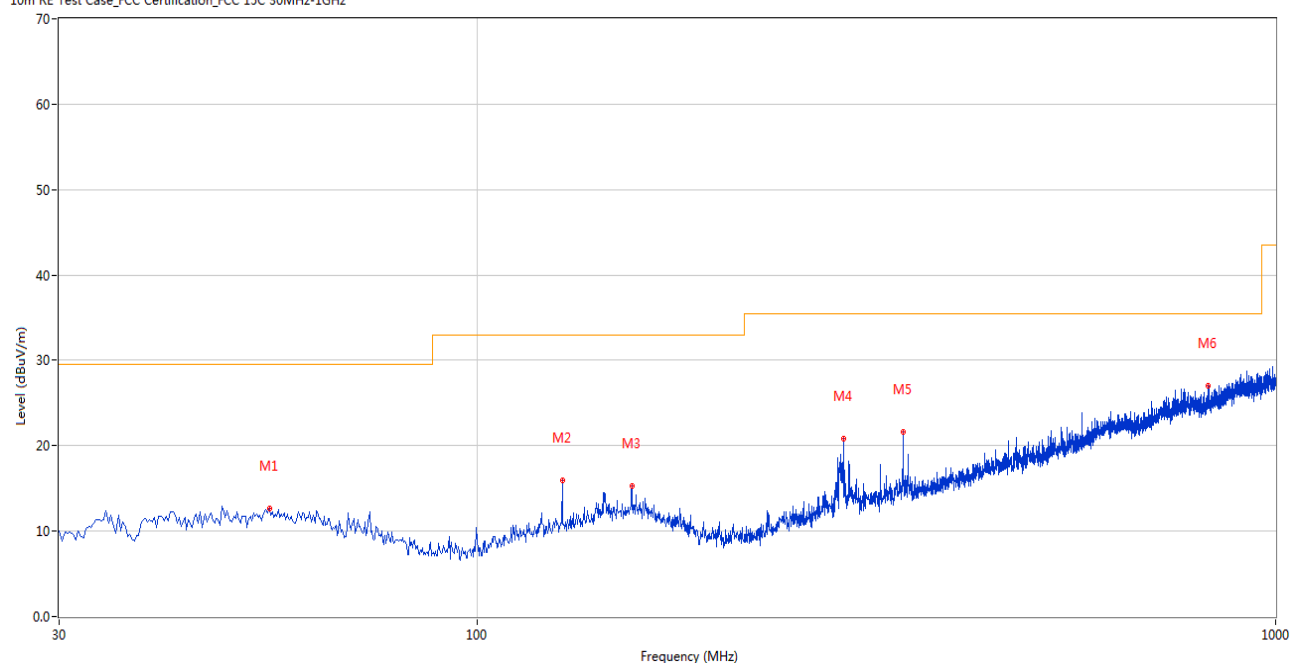
Note ⁴: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

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

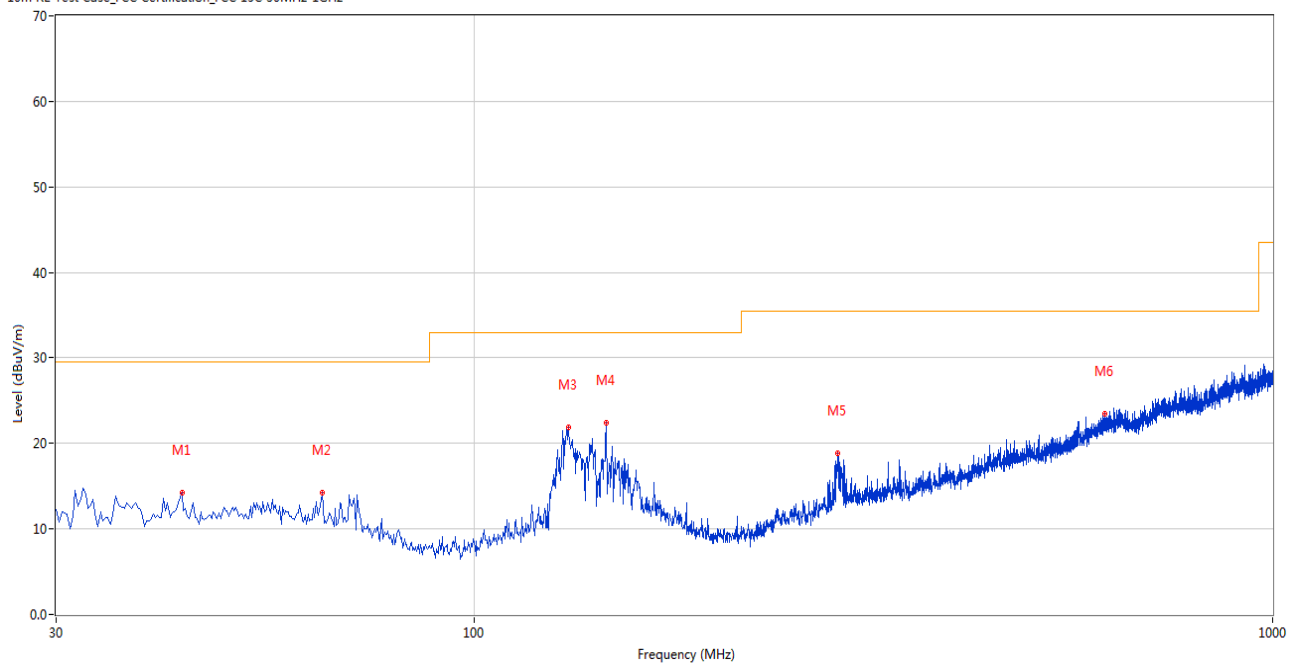
10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	54.971	12.67	-26.13	29.5	16.83	Peak	59.00	200	Horizontal	Pass
2	127.946	15.98	-27.27	33.0	17.02	Peak	124.00	100	Horizontal	Pass
3	156.311	15.26	-25.49	33.0	17.74	Peak	161.00	200	Horizontal	Pass
4	287.956	20.84	-25.18	35.5	14.66	Peak	242.00	200	Horizontal	Pass
5	342.019	21.62	-23.80	35.5	13.88	Peak	257.00	200	Horizontal	Pass
6	823.747	27.08	-12.41	35.5	8.42	Peak	360.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	43.092	14.21	-26.35	29.5	15.29	Peak	230.00	200	Vertical	Pass
2	64.669	14.30	-27.28	29.5	15.20	Peak	0.00	200	Vertical	Pass
3	131.340	21.88	-27.05	33.0	11.12	Peak	345.00	100	Vertical	Pass
4	146.371	22.41	-25.63	33.0	10.59	Peak	286.00	100	Vertical	Pass
5	285.774	18.86	-25.24	35.5	16.64	Peak	264.00	100	Vertical	Pass
6	617.188	23.49	-16.20	35.5	12.01	Peak	130.00	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 LOW CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.000	41.97	74.0	32.03	Peak	219.00	400	Horizontal	Pass
1**	1332.000	32.37	54.0	21.63	AV	219.00	400	Horizontal	Pass
2	2402.000	89.31	74.0	-15.31	Peak	91.00	200	Horizontal	N/A
2**	2402.000	89.16	54.0	-35.16	AV	91.00	200	Horizontal	N/A
3	4838.000	49.86	74.0	24.14	Peak	162.00	150	Horizontal	Pass
3**	4838.000	40.80	54.0	13.20	AV	162.00	150	Horizontal	Pass
4	6896.500	54.16	74.0	19.84	Peak	59.00	400	Horizontal	Pass
4**	6896.500	44.61	54.0	9.39	AV	59.00	400	Horizontal	Pass
5	12962.625	54.11	74.0	19.89	Peak	156.00	100	Horizontal	Pass
5**	12962.625	44.52	54.0	9.48	AV	156.00	100	Horizontal	Pass
6	16867.574	56.26	74.0	17.74	Peak	253.00	200	Horizontal	Pass
6**	16867.574	47.50	54.0	6.50	AV	253.00	200	Horizontal	Pass

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.500	46.71	74.0	27.29	Peak	166.00	400	Vertical	Pass
1**	1332.500	33.17	54.0	20.83	AV	166.00	400	Vertical	Pass
2	2402.100	88.01	74.0	-14.01	Peak	229.00	150	Vertical	N/A
2**	2402.100	87.96	54.0	-33.96	AV	229.00	150	Vertical	N/A
3	4804.250	49.90	74.0	24.10	Peak	222.00	100	Vertical	Pass
3**	4804.250	45.89	54.0	8.11	AV	222.00	100	Vertical	Pass
4	7239.750	54.11	74.0	19.89	Peak	242.00	200	Vertical	Pass
4**	7239.750	42.88	54.0	11.12	AV	242.00	200	Vertical	Pass
5	12516.300	54.32	74.0	19.68	Peak	88.00	400	Vertical	Pass
5**	12516.300	45.15	54.0	8.85	AV	88.00	400	Vertical	Pass
6	17408.588	55.32	74.0	18.68	Peak	202.00	400	Vertical	Pass
6**	17408.588	46.67	54.0	7.33	AV	202.00	400	Vertical	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1387.800	42.13	74.0	31.87	Peak	81.00	100	Horizontal	Pass
1**	1387.800	32.69	54.0	21.31	AV	81.00	100	Horizontal	Pass
2	2441.000	88.93	74.0	-14.93	Peak	19.00	100	Horizontal	N/A
2**	2441.000	88.75	54.0	-34.75	AV	19.00	100	Horizontal	N/A
3	4882.250	50.30	74.0	23.70	Peak	243.00	200	Horizontal	Pass
3**	4882.250	43.59	54.0	10.41	AV	243.00	200	Horizontal	Pass
4	4882.500	48.32	74.0	25.68	Peak	287.00	100	Horizontal	Pass
4**	4882.500	44.65	54.0	9.35	AV	287.00	100	Horizontal	Pass
5	6900.250	53.91	74.0	20.09	Peak	98.00	300	Horizontal	Pass
5**	6900.250	45.28	54.0	8.72	AV	98.00	300	Horizontal	Pass
6	12500.388	53.78	74.0	20.22	Peak	142.00	200	Horizontal	Pass
6**	12500.388	44.71	54.0	9.29	AV	142.00	200	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.100	45.92	74.0	28.08	Peak	167.00	300	Vertical	Pass
1**	1333.100	32.77	54.0	21.23	AV	167.00	300	Vertical	Pass
2	2441.000	88.19	74.0	-14.19	Peak	234.00	100	Vertical	N/A
2**	2441.000	87.98	54.0	-33.98	AV	234.00	100	Vertical	N/A
3	4882.250	50.71	74.0	23.29	Peak	166.00	100	Vertical	Pass
3**	4882.250	46.76	54.0	7.24	AV	166.00	100	Vertical	Pass
4	5316.750	53.76	74.0	20.24	Peak	101.00	100	Vertical	Pass
4**	5316.750	46.55	54.0	7.45	AV	101.00	100	Vertical	Pass
5	6884.250	54.01	74.0	19.99	Peak	269.00	200	Vertical	Pass
5**	6884.250	44.95	54.0	9.05	AV	269.00	200	Vertical	Pass
6	16861.537	56.30	74.0	17.70	Peak	185.00	300	Vertical	Pass
6**	16861.537	46.91	54.0	7.09	AV	185.00	300	Vertical	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1336.000	42.13	74.0	31.87	Peak	43.00	400	Horizontal	Pass
1**	1336.000	32.36	54.0	21.64	AV	43.00	400	Horizontal	Pass
2	2480.000	87.69	74.0	-13.69	Peak	106.00	150	Horizontal	N/A
2**	2480.000	87.50	54.0	-33.50	AV	106.00	150	Horizontal	N/A
3	4960.250	50.50	74.0	23.50	Peak	0.00	100	Horizontal	Pass
3**	4960.250	44.81	54.0	9.19	AV	0.00	100	Horizontal	Pass
4	7965.000	53.87	74.0	20.13	Peak	16.00	400	Horizontal	Pass
4**	7965.000	44.12	54.0	9.88	AV	16.00	400	Horizontal	Pass
5	12463.100	53.46	74.0	20.54	Peak	106.00	200	Horizontal	Pass
5**	12463.100	45.76	54.0	8.24	AV	106.00	200	Horizontal	Pass
6	16986.488	55.50	74.0	18.50	Peak	135.00	100	Horizontal	Pass
6**	16986.488	46.93	54.0	7.07	AV	135.00	100	Horizontal	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.400	44.20	74.0	29.80	Peak	164.00	100	Vertical	Pass
1**	1331.400	32.67	54.0	21.33	AV	164.00	100	Vertical	Pass
2	2480.000	88.66	74.0	-14.66	Peak	222.00	100	Vertical	N/A
2**	2480.000	88.49	54.0	-34.49	AV	222.00	100	Vertical	N/A
3	4960.500	49.57	74.0	24.43	Peak	161.00	100	Vertical	Pass
3**	4960.500	47.76	54.0	6.24	AV	161.00	100	Vertical	Pass
4	5314.500	48.77	74.0	25.23	Peak	244.00	100	Vertical	Pass
4**	5314.500	47.44	54.0	6.56	AV	244.00	100	Vertical	Pass
5	12957.112	53.63	74.0	20.37	Peak	353.00	300	Vertical	Pass
5**	12957.112	44.89	54.0	9.11	AV	353.00	300	Vertical	Pass
6	17028.750	55.88	74.0	18.12	Peak	128.00	100	Vertical	Pass
6**	17028.750	46.53	54.0	7.47	AV	128.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1025.300	42.48	74.0	31.52	Peak	107.00	300	Horizontal	Pass
1**	1025.300	33.28	54.0	20.72	AV	107.00	300	Horizontal	Pass
2	2402.000	89.19	74.0	-15.19	Peak	88.00	100	Horizontal	N/A
2**	2402.000	89.04	54.0	-35.04	AV	88.00	100	Horizontal	N/A
3	4818.000	50.33	74.0	23.67	Peak	47.00	200	Horizontal	Pass
3**	4818.000	41.66	54.0	12.34	AV	47.00	200	Horizontal	Pass
4	6902.500	53.81	74.0	20.19	Peak	171.00	200	Horizontal	Pass
4**	6902.500	45.01	54.0	8.99	AV	171.00	200	Horizontal	Pass
5	12526.276	53.74	74.0	20.26	Peak	215.00	100	Horizontal	Pass
5**	12526.276	44.34	54.0	9.66	AV	215.00	100	Horizontal	Pass
6	17439.037	55.71	74.0	18.29	Peak	207.00	200	Horizontal	Pass
6**	17439.037	46.65	54.0	7.35	AV	207.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.100	44.79	74.0	29.21	Peak	168.00	200	Vertical	Pass
1**	1332.100	36.28	54.0	17.72	AV	168.00	200	Vertical	Pass
2	2402.000	87.97	74.0	-13.97	Peak	230.00	100	Vertical	N/A
2**	2402.000	87.78	54.0	-33.78	AV	230.00	100	Vertical	N/A
3	4804.500	48.75	74.0	25.25	Peak	180.00	100	Vertical	Pass
3**	4804.500	45.90	54.0	8.10	AV	180.00	100	Vertical	Pass
4	7958.500	53.81	74.0	20.19	Peak	77.00	300	Vertical	Pass
4**	7958.500	43.92	54.0	10.08	AV	77.00	300	Vertical	Pass
5	12511.313	54.05	74.0	19.95	Peak	234.00	100	Vertical	Pass
5**	12511.313	45.13	54.0	8.87	AV	234.00	100	Vertical	Pass
6	16996.725	56.03	74.0	17.97	Peak	309.00	100	Vertical	Pass
6**	16996.725	46.82	54.0	7.18	AV	309.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1341.300	41.86	74.0	32.14	Peak	5.00	300	Horizontal	Pass
1**	1341.300	32.56	54.0	21.44	AV	5.00	300	Horizontal	Pass
2	2441.000	88.84	74.0	-14.84	Peak	15.00	150	Horizontal	N/A
2**	2441.000	88.65	54.0	-34.65	AV	15.00	150	Horizontal	N/A
3	4988.750	49.98	74.0	24.02	Peak	0.00	200	Horizontal	Pass
3**	4988.750	40.52	54.0	13.48	AV	0.00	200	Horizontal	Pass
4	6906.500	53.79	74.0	20.21	Peak	16.00	400	Horizontal	Pass
4**	6906.500	44.38	54.0	9.62	AV	16.00	400	Horizontal	Pass
5	12444.575	54.17	74.0	19.83	Peak	83.00	300	Horizontal	Pass
5**	12444.575	43.94	54.0	10.06	AV	83.00	300	Horizontal	Pass
6	17016.412	55.78	74.0	18.22	Peak	65.00	200	Horizontal	Pass
6**	17016.412	46.01	54.0	7.99	AV	65.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.200	46.41	74.0	27.59	Peak	159.00	400	Vertical	Pass
1**	1332.200	39.02	54.0	14.98	AV	159.00	400	Vertical	Pass
2	2441.000	88.07	74.0	-14.07	Peak	231.00	150	Vertical	N/A
2**	2441.000	87.88	54.0	-33.88	AV	231.00	150	Vertical	N/A
3	4882.750	50.21	74.0	23.79	Peak	157.00	100	Vertical	Pass
3**	4882.750	46.25	54.0	7.75	AV	157.00	100	Vertical	Pass
4	5329.000	47.57	74.0	26.43	Peak	35.00	100	Vertical	Pass
4**	5329.000	46.61	54.0	7.39	AV	35.00	100	Vertical	Pass
5	12976.800	54.43	74.0	19.57	Peak	69.00	200	Vertical	Pass
5**	12976.800	44.50	54.0	9.50	AV	69.00	200	Vertical	Pass
6	17033.738	56.33	74.0	17.67	Peak	317.00	100	Vertical	Pass
6**	17033.738	46.30	54.0	7.70	AV	317.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1574.500	42.33	74.0	31.67	Peak	198.00	400	Horizontal	Pass
1**	1574.500	32.50	54.0	21.50	AV	198.00	400	Horizontal	Pass
2	2480.100	87.86	74.0	-13.86	Peak	105.00	200	Horizontal	N/A
2**	2480.100	87.83	54.0	-33.83	AV	105.00	200	Horizontal	N/A
3	4960.250	48.51	74.0	25.49	Peak	360.00	100	Horizontal	Pass
3**	4960.250	44.15	54.0	9.85	AV	360.00	100	Horizontal	Pass
4	6883.500	53.81	74.0	20.19	Peak	360.00	400	Horizontal	Pass
4**	6883.500	45.14	54.0	8.86	AV	360.00	400	Horizontal	Pass
5	12501.338	54.08	74.0	19.92	Peak	335.00	300	Horizontal	Pass
5**	12501.338	44.37	54.0	9.63	AV	335.00	300	Horizontal	Pass
6	17038.725	55.74	74.0	18.26	Peak	0.00	300	Horizontal	Pass
6**	17038.725	45.96	54.0	8.04	AV	0.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.300	43.54	74.0	30.46	Peak	101.00	400	Vertical	Pass
1**	1330.300	34.95	54.0	19.05	AV	101.00	400	Vertical	Pass
2	2480.100	88.67	74.0	-14.67	Peak	229.00	150	Vertical	N/A
2**	2480.100	88.66	54.0	-34.66	AV	229.00	150	Vertical	N/A
3	4960.250	49.89	74.0	24.11	Peak	171.00	100	Vertical	Pass
3**	4960.250	48.30	54.0	5.70	AV	171.00	100	Vertical	Pass
4	5315.500	50.75	74.0	23.25	Peak	43.00	100	Vertical	Pass
4**	5315.500	47.09	54.0	6.91	AV	43.00	100	Vertical	Pass
5	12508.225	53.85	74.0	20.15	Peak	154.00	100	Vertical	Pass
5**	12508.225	45.02	54.0	8.98	AV	154.00	100	Vertical	Pass
6	17412.786	56.36	74.0	17.64	Peak	157.00	300	Vertical	Pass
6**	17412.786	45.96	54.0	8.04	AV	157.00	300	Vertical	Pass

5.11 Band Edge (Restricted-band band-edge)

5.11.1 Limit

FCC §15.209&15.247(d)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

5.11.2 Test Setup

See section 4.5.3 to 4.5.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX A.

5.11.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.11.4 Test Result

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

GFSK LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2385.300	56.99	74.0	17.01	Peak	49.00	100	Horizontal	Pass
1**	2385.300	43.64	54.0	10.36	AV	49.00	100	Horizontal	Pass
2	2389.950	53.86	74.0	20.14	Peak	86.00	150	Horizontal	Pass
2**	2389.950	43.15	54.0	10.85	AV	86.00	150	Horizontal	Pass

GFSK HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	65.00	74.0	9.00	Peak	23.00	200	Horizontal	Pass
1**	2483.500	44.60	54.0	9.40	AV	23.00	200	Horizontal	Pass
2	2483.725	64.82	74.0	9.18	Peak	106.00	150	Horizontal	Pass
2**	2483.725	44.08	54.0	9.92	AV	106.00	150	Horizontal	Pass

8-DPSK LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2349.500	55.31	74.0	18.69	Peak	360.00	200	Horizontal	Pass
1**	2349.500	43.99	54.0	10.01	AV	360.00	200	Horizontal	Pass
2	2389.950	52.74	74.0	21.26	Peak	253.00	150	Horizontal	Pass
2**	2389.950	43.10	54.0	10.90	AV	253.00	150	Horizontal	Pass

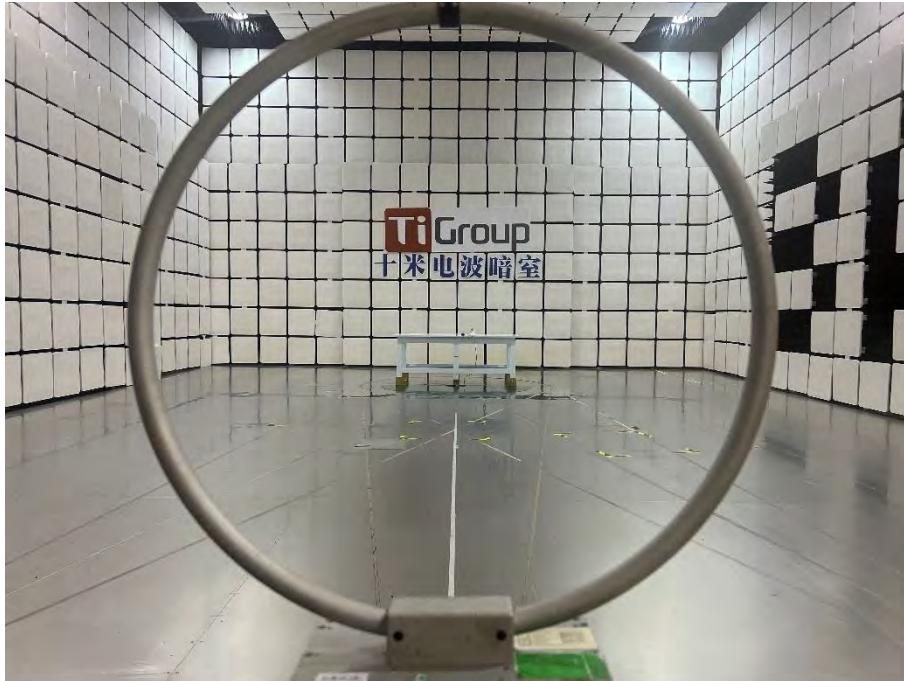
8-DPSK HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.560	63.02	74.0	10.98	Peak	111.00	200	Horizontal	Pass
1**	2483.560	43.75	54.0	10.25	AV	111.00	200	Horizontal	Pass
2	2484.115	63.12	74.0	10.88	Peak	111.00	200	Horizontal	Pass
2**	2484.115	44.15	54.0	9.85	AV	111.00	200	Horizontal	Pass

ANNEX A TEST SETUP PHOTOS

1 Radiated Test Photo

Below 30MHz



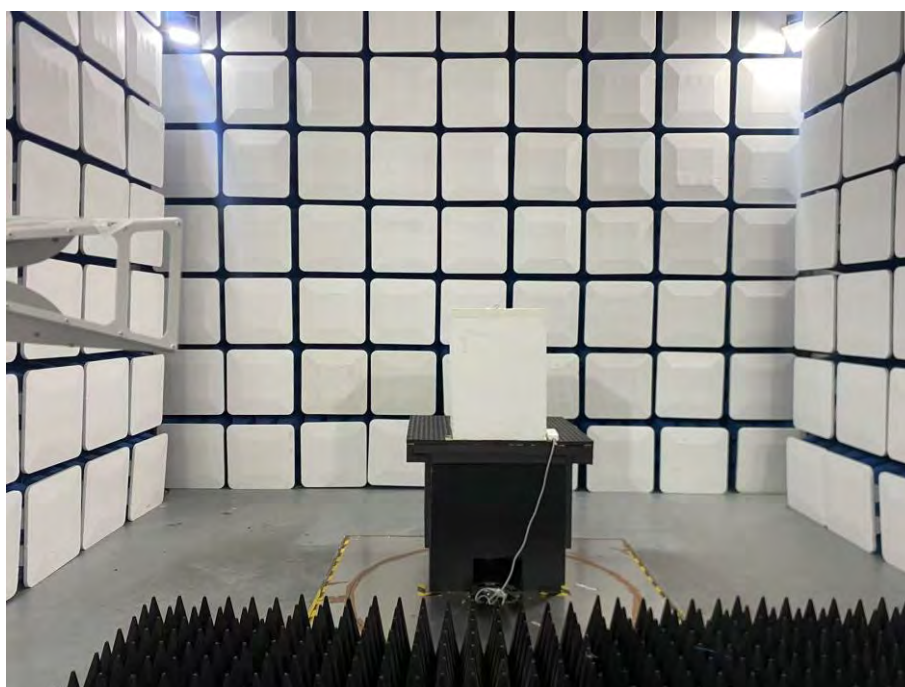
30MHz-1GHz



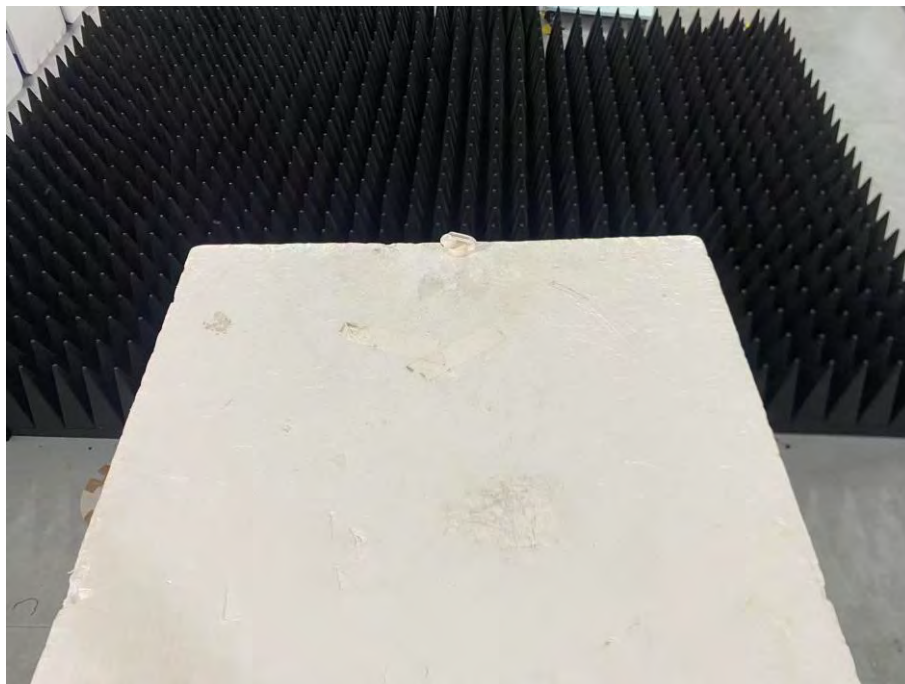
Close-up



Above 1GHz



Close-up



2 Conducted Test Photo

Conducted Test



3 Conducted Emission

Photo 1

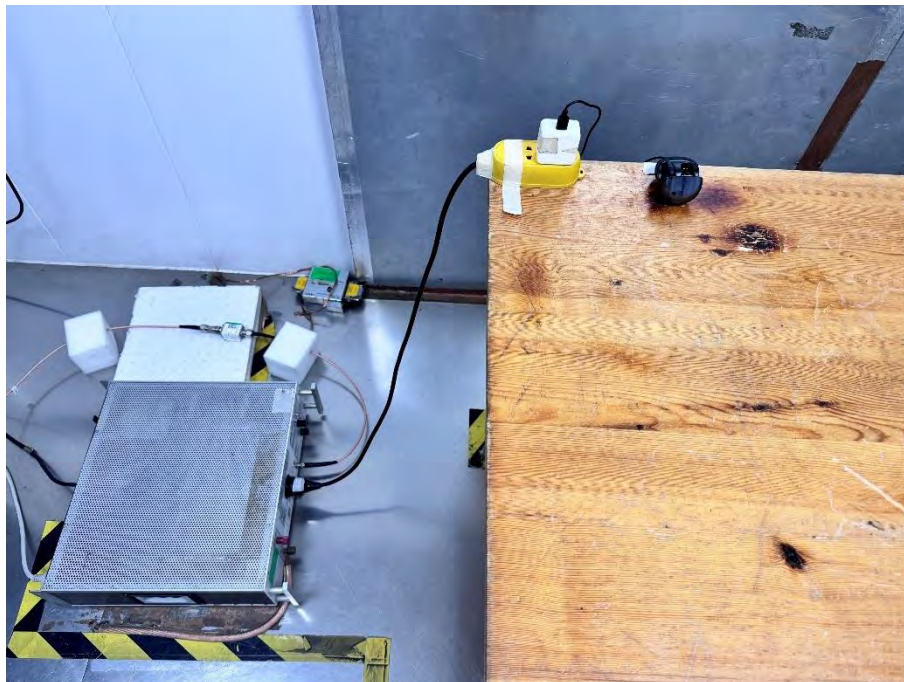


Photo 2



ANNEX B EUT EXTERNAL PHOTOS

FRONT VIEW OF EUT



REAR VIEW OF EUT



LEFT VIEW OF EUT



RIGHT VIEW OF EUT



TOP VIEW OF EUT



BOTTOM VIEW OF EUT





Accessory-Type-C Cable



Accessory-Charging Case

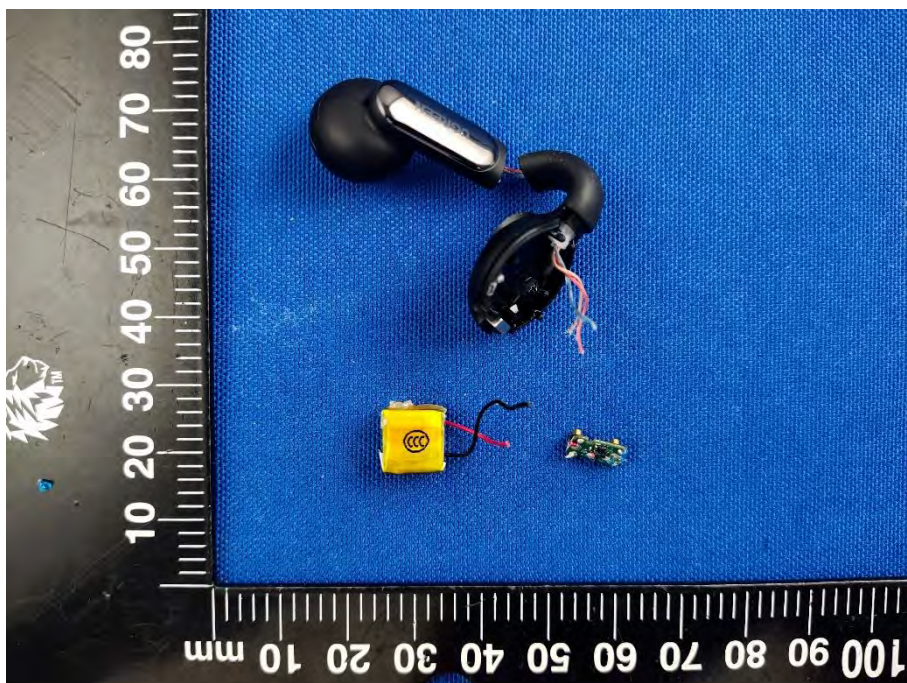


ANNEX C EUT INTERNAL PHOTOS

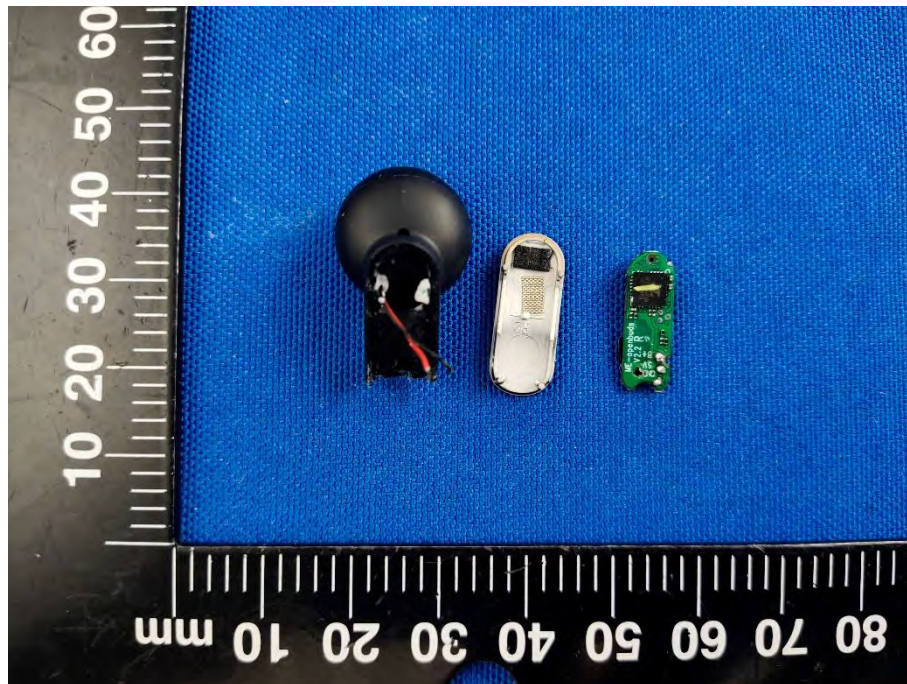
EUT UNCOVER VIEW 1



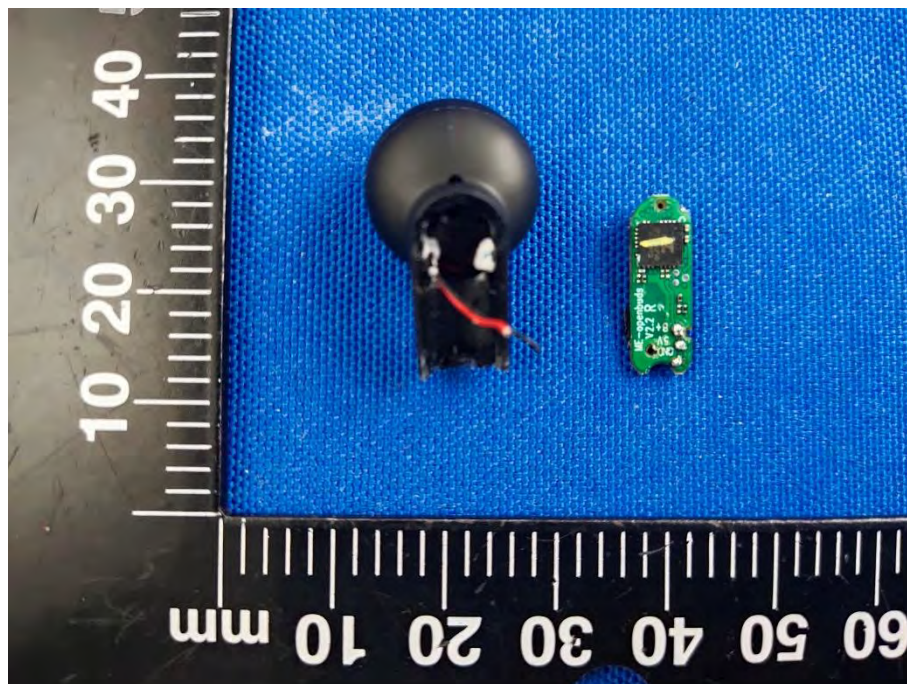
EUT UNCOVER VIEW 2



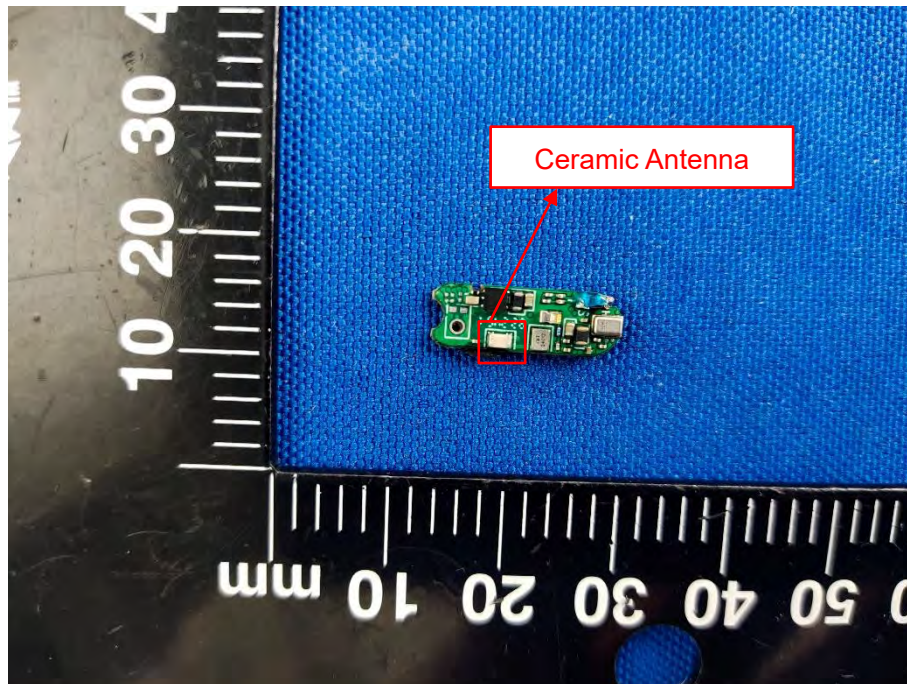
EUT UNCOVER VIEW 3



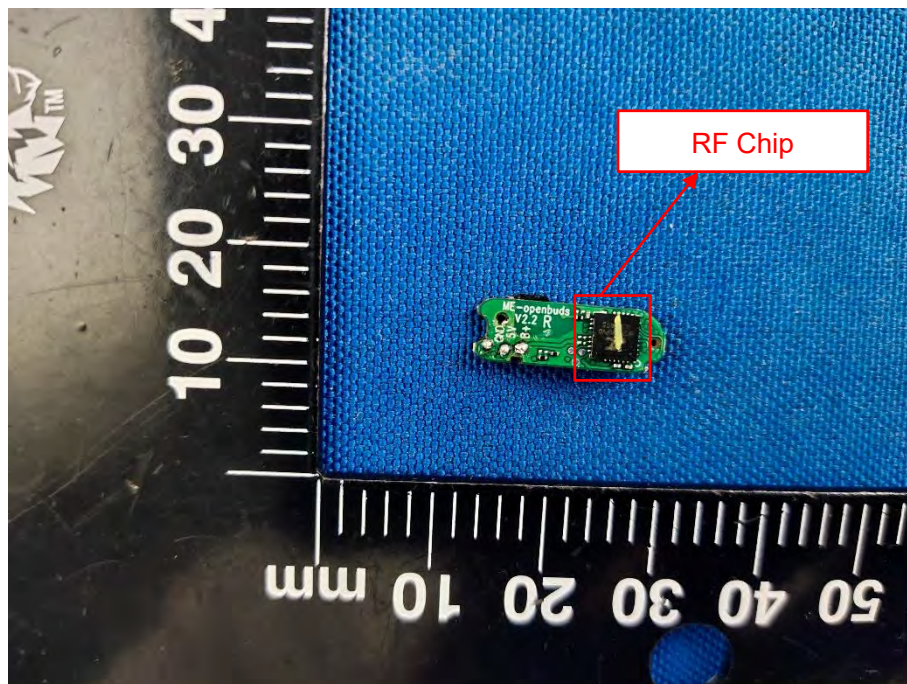
EUT UNCOVER VIEW 4



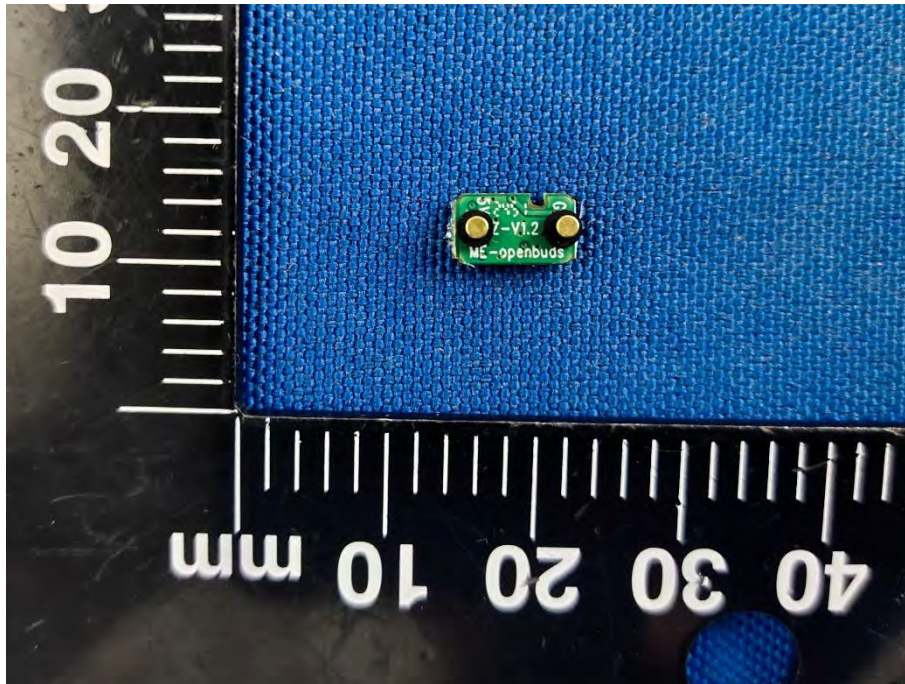
MAIN BOARD TOP VIEW



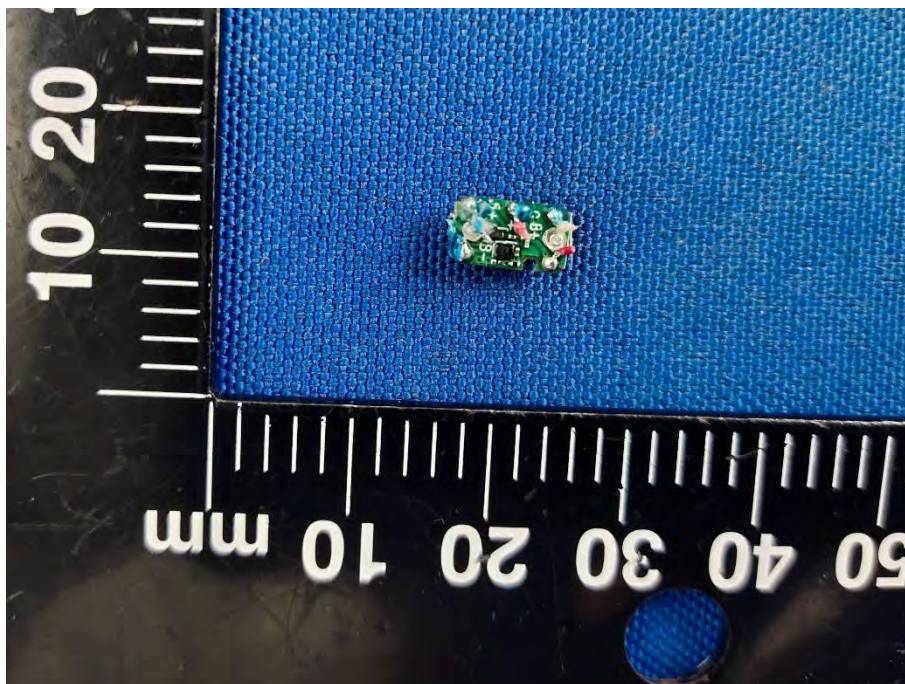
MAIN BOARD REAR VIEW



SECONDARY BOARD 1 TOP VIEW



SECONDARY BOARD 1 REAR VIEW



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--END OF REPORT--