

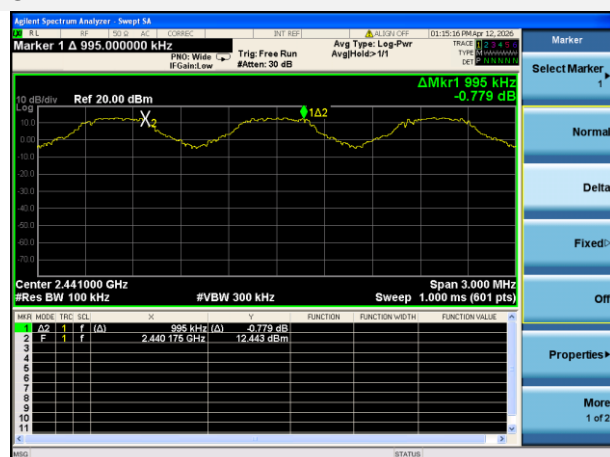
A.4 Hopping Frequency Separation

Test Data

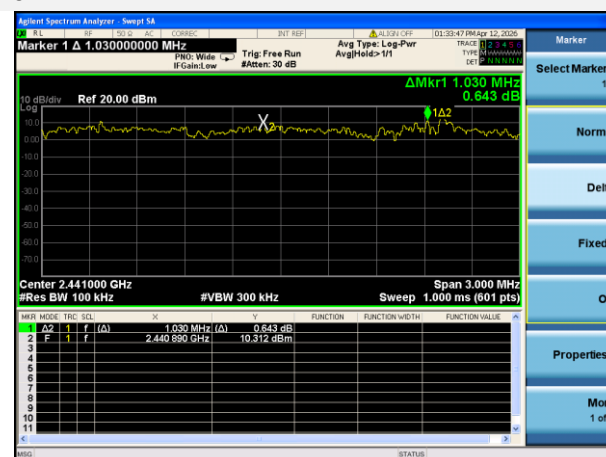
Mode	Frequency separation (MHz)	2/3 of the 20 dB Bandwidth (MHz)	Verdict
GFSK	0.995	0.705	Pass
8-DPSK	1.030	0.805	Pass

Test Plots

GFSK



8-DPSK



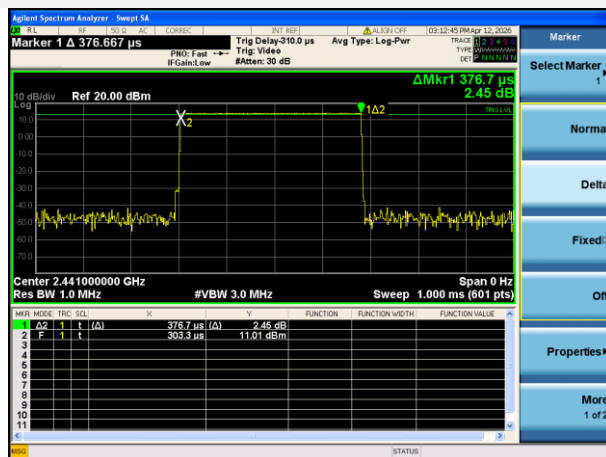
A.5 Average Time of Occupancy

Test Data

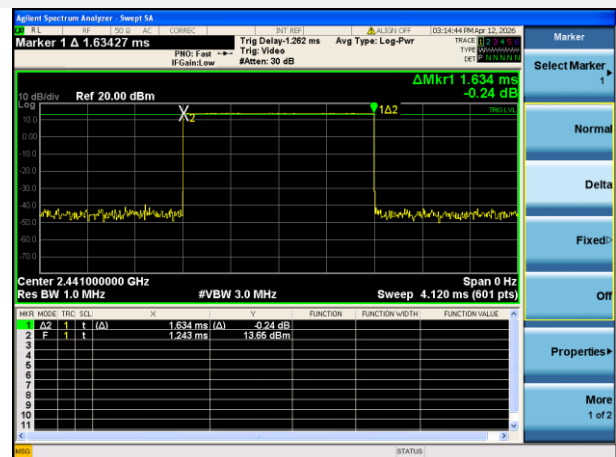
GFSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.37670	120.544	0.4	Pass
DH 3	1.63400	261.440	0.4	Pass
DH 5	2.88800	308.053	0.4	Pass
8-DPSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
3DH 1	0.38670	123.744	0.4	Pass
3DH 3	1.64100	262.560	0.4	Pass
3DH 5	2.88800	308.053	0.4	Pass
AFH Mode				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.37670	60.272	0.4	Pass
DH 3	1.63400	130.720	0.4	Pass
DH 5	2.88800	154.027	0.4	Pass

Test Plots

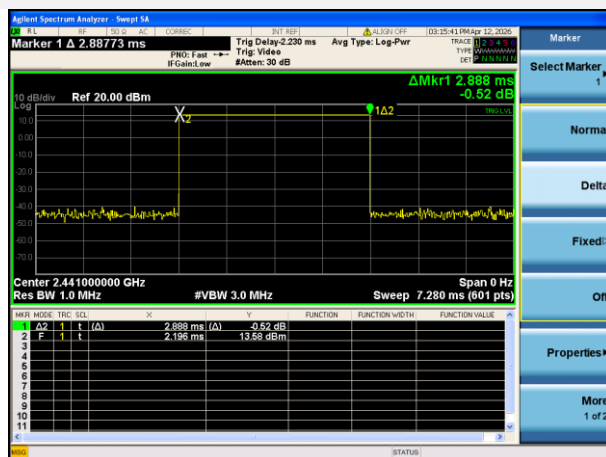
GFSK DH1



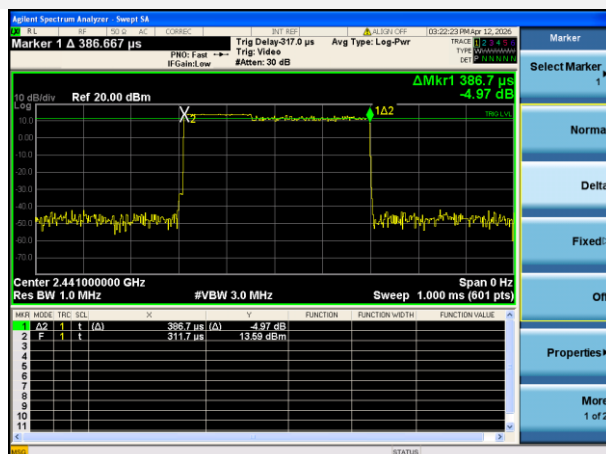
GFSK DH3



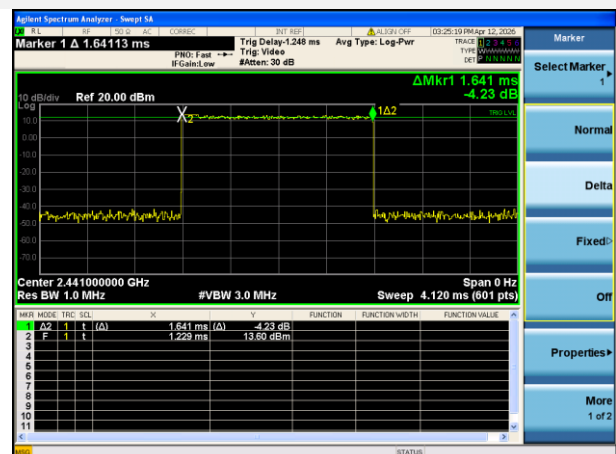
GFSK DH5

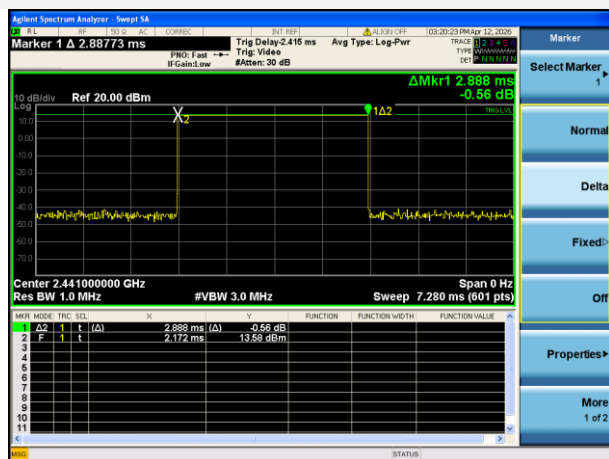
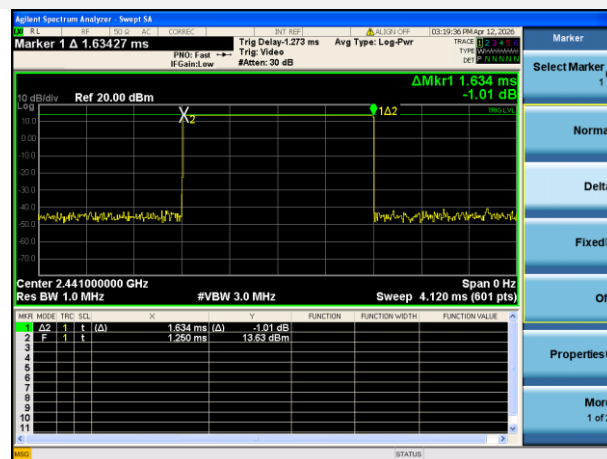
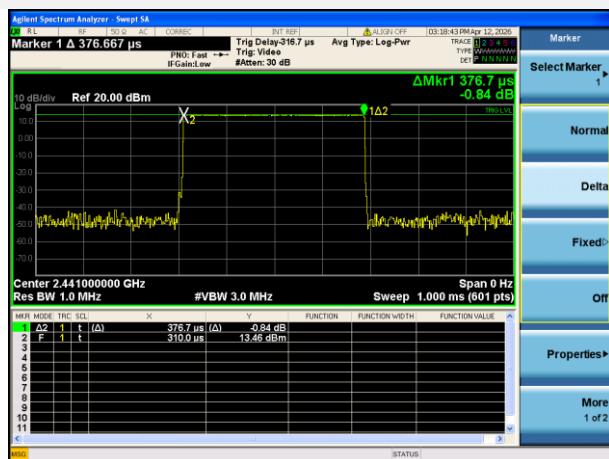
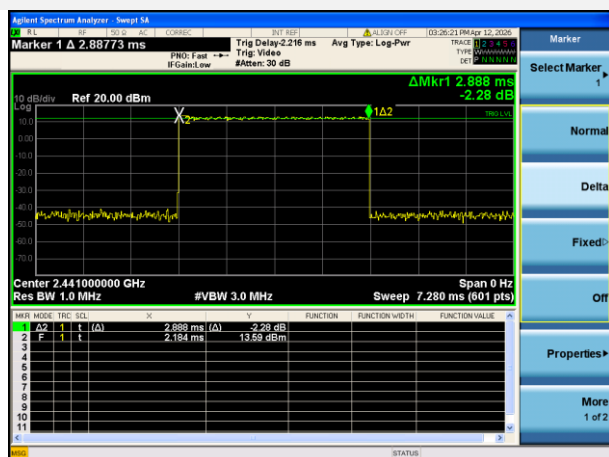


8-DPSK 3DH1



8-DPSK 3DH3





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

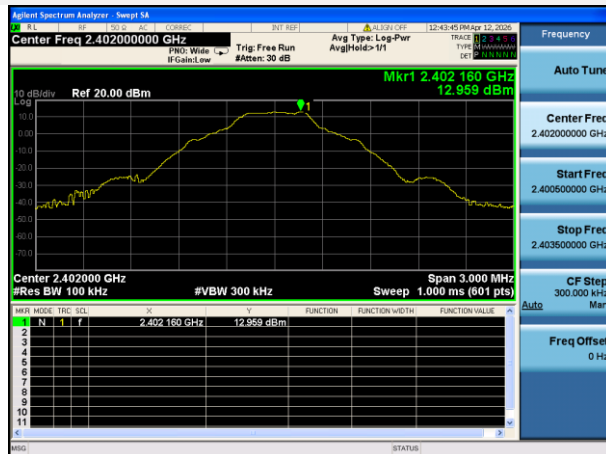
Test Data

GFSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-35.60	12.96	-7.04	Pass
Middle	-35.68	13.21	-6.79	Pass
High	-35.98	13.29	-6.71	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-36.27	12.89	-7.11	Pass
Middle	-37.08	13.25	-6.75	Pass
High	-36.54	12.35	-7.65	Pass

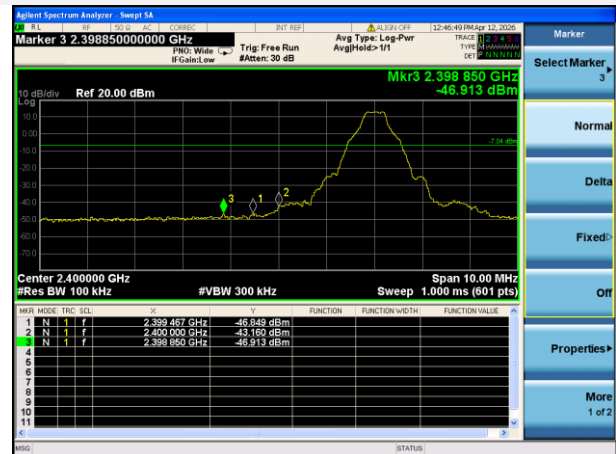
Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-26.65	13.29	-6.71	Pass
8-DPSK	-24.96	13.30	-6.70	Pass

Test Plots

GFSK LOW CHANNEL, CARRIER LEVEL

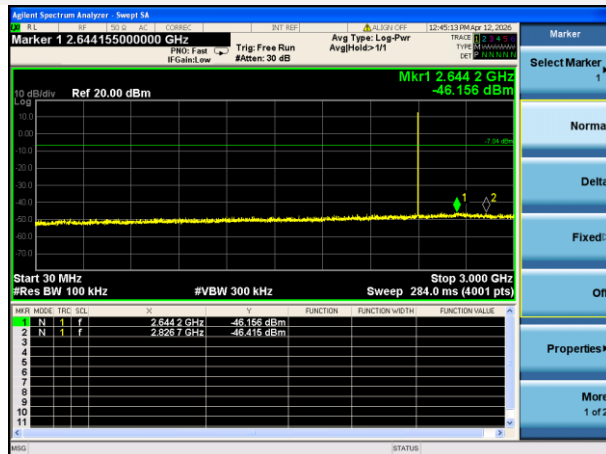


GFSK LOW CHANNEL, BAND EDGE



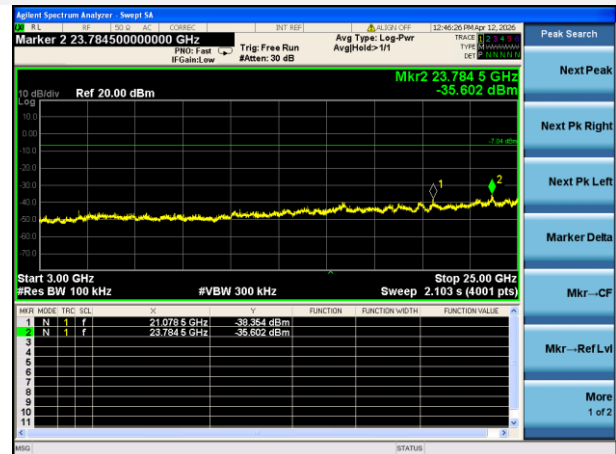
GFSK LOW CHANNEL, SPURIOUS

30 MHz ~ 3 GHz

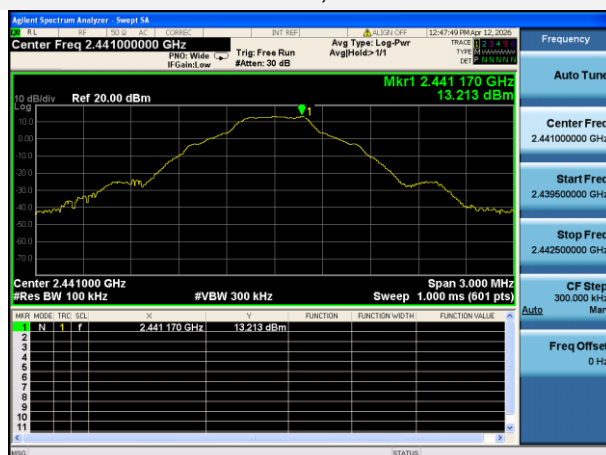


GFSK LOW CHANNEL, SPURIOUS

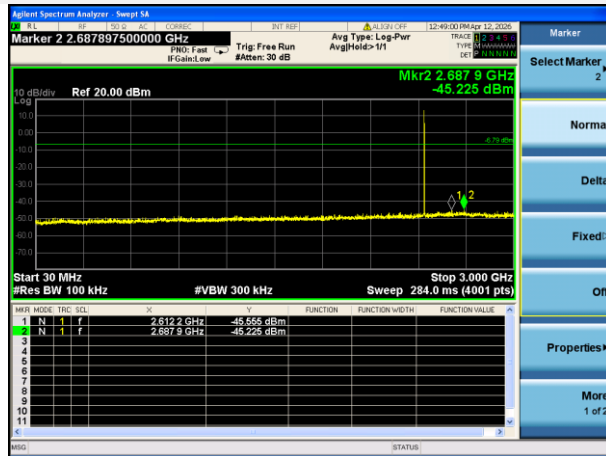
3 GHz ~ 25 GHz



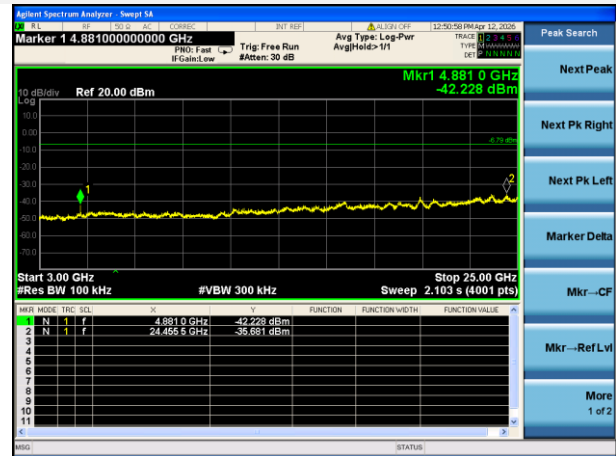
GFSK MIDDLE CHANNEL, CARRIER LEVEL



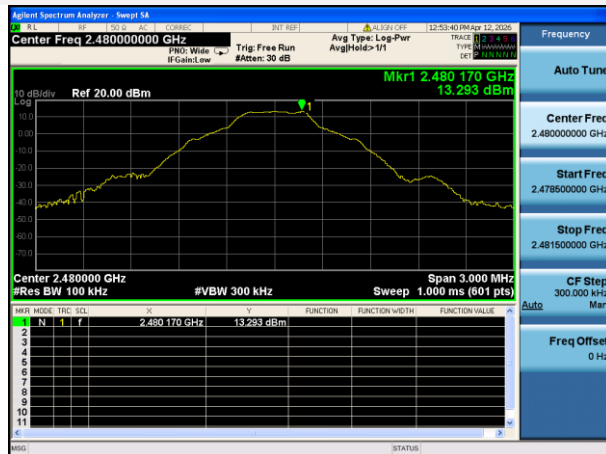
GFSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



GFSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



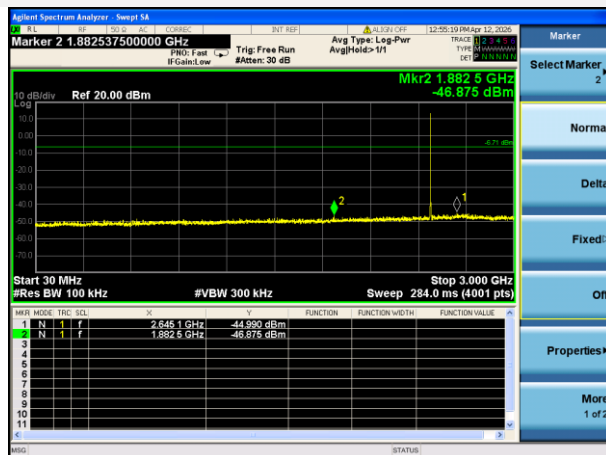
GFSK HIGH CHANNEL, CARRIER LEVEL



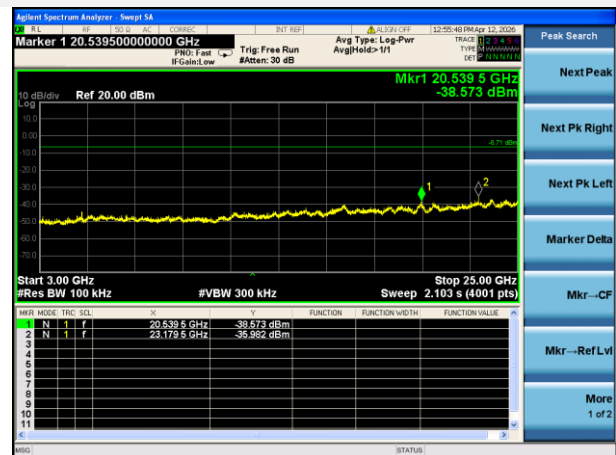
GFSK HIGH CHANNEL, BAND EDGE



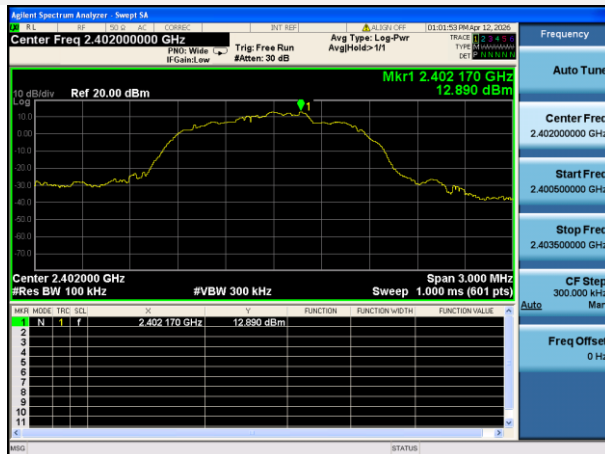
GFSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



GFSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



8-DPSK LOW CHANNEL, CARRIER LEVEL

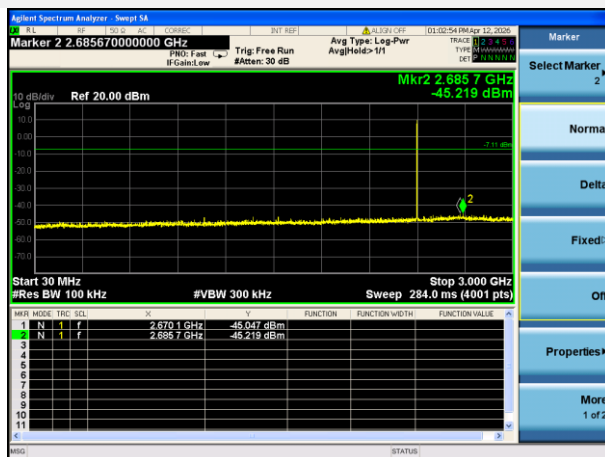


8-DPSK LOW CHANNEL, BAND EDGE



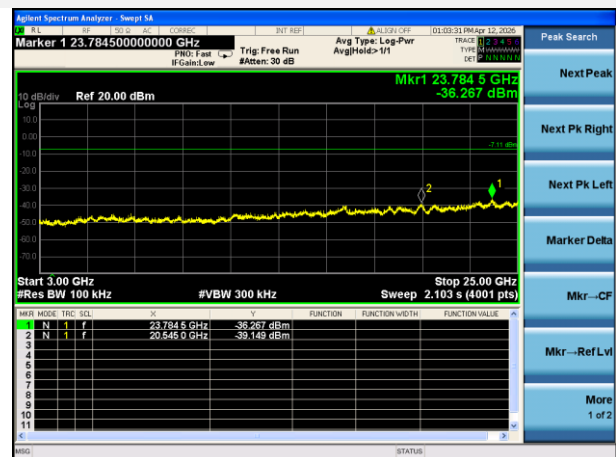
8-DPSK LOW CHANNEL, SPURIOUS

30 MHz ~ 3 GHz

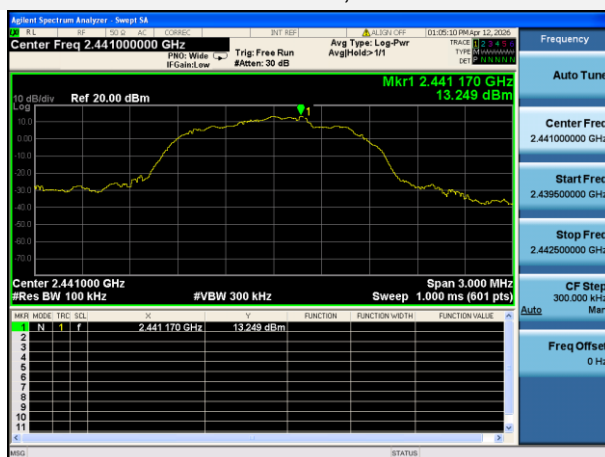


8-DPSK LOW CHANNEL, SPURIOUS

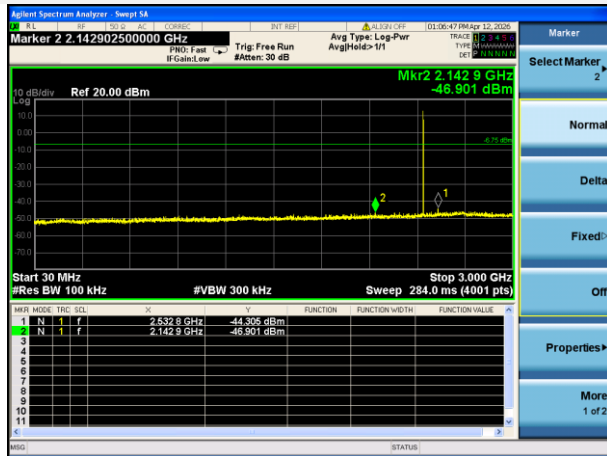
3 GHz ~ 25 GHz



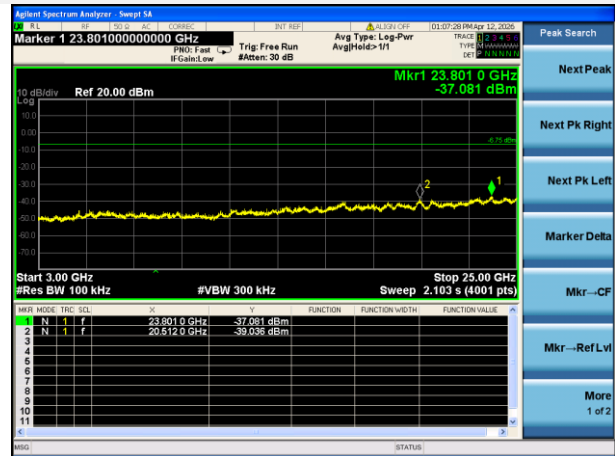
8-DPSK MIDDLE CHANNEL, CARRIER LEVEL



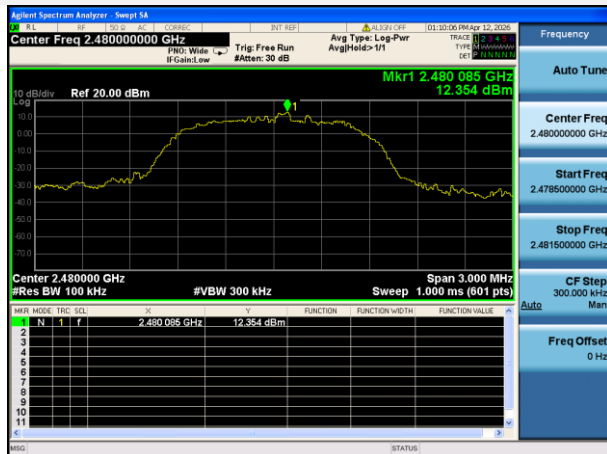
8-DPSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



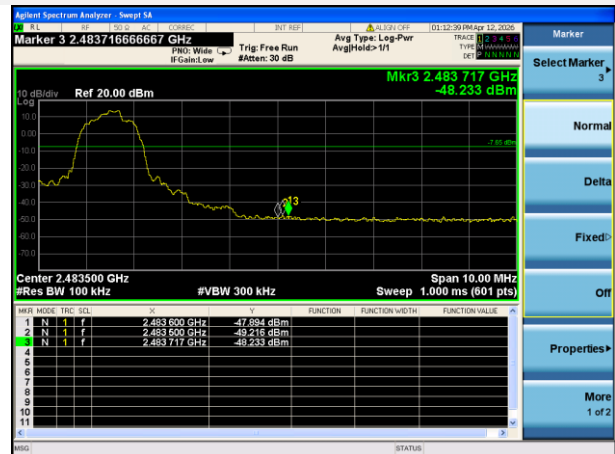
8-DPSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



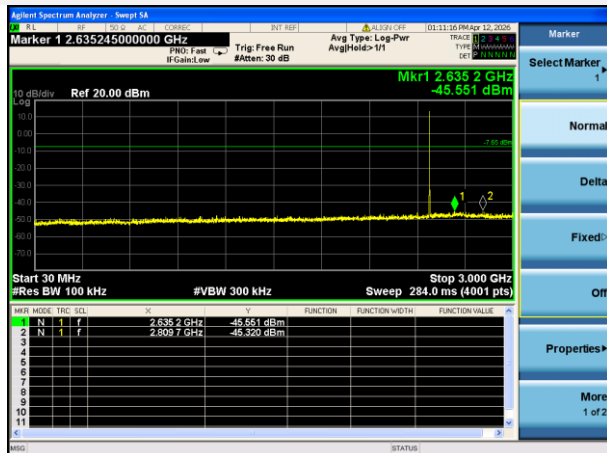
8-DPSK HIGH CHANNEL, CARRIER LEVEL



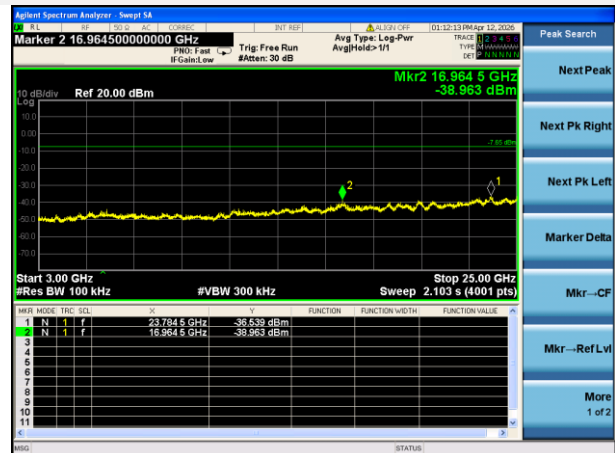
8-DPSK HIGH CHANNEL, BAND EDGE



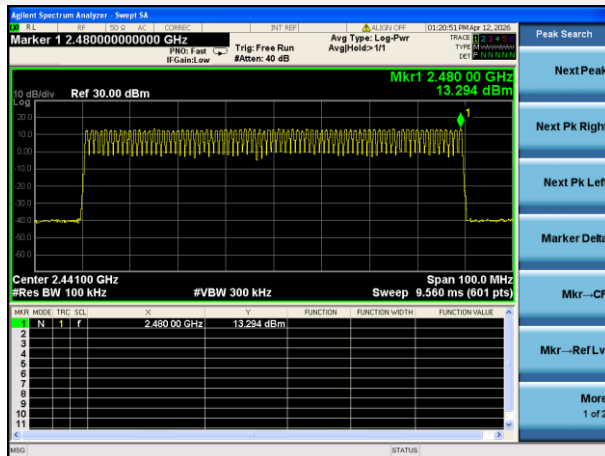
8-DPSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



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



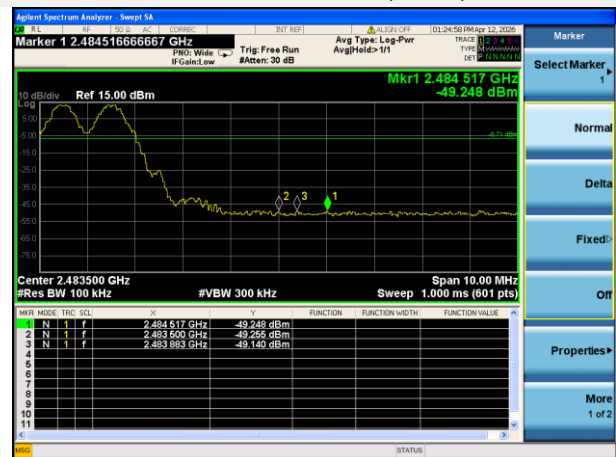
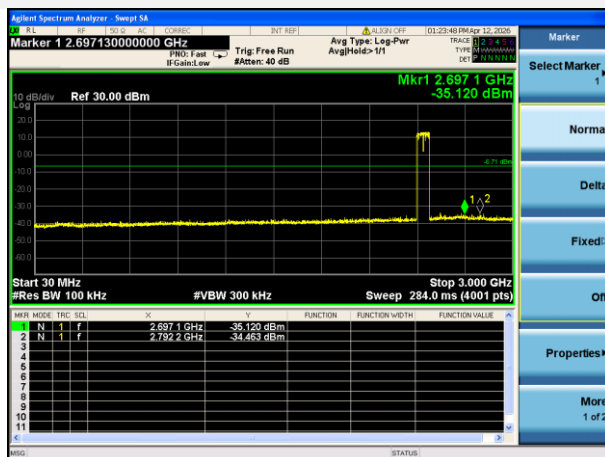
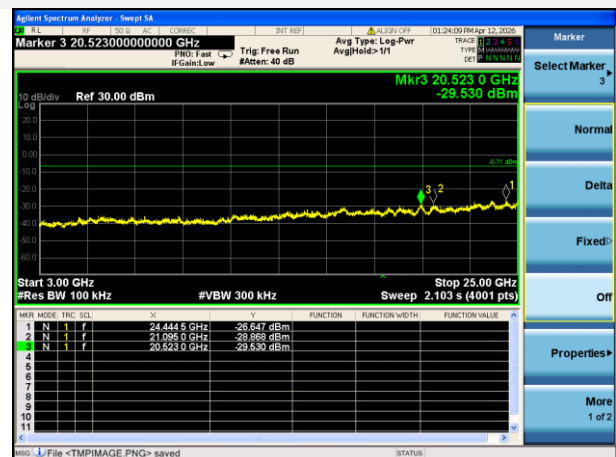
GFSK HOPPING, CARRIER LEVEL



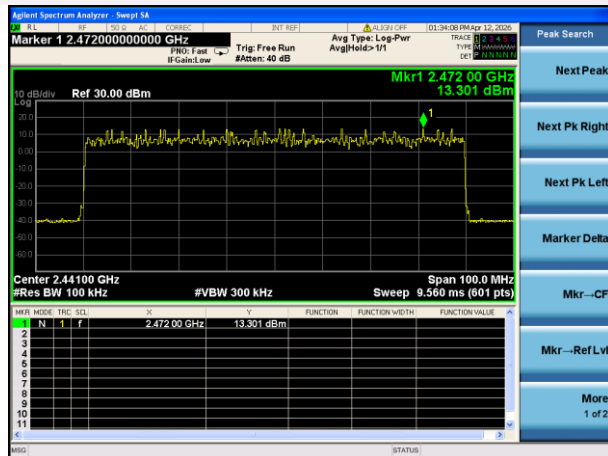
GFSK HOPPING BAND EDGE (LOW)



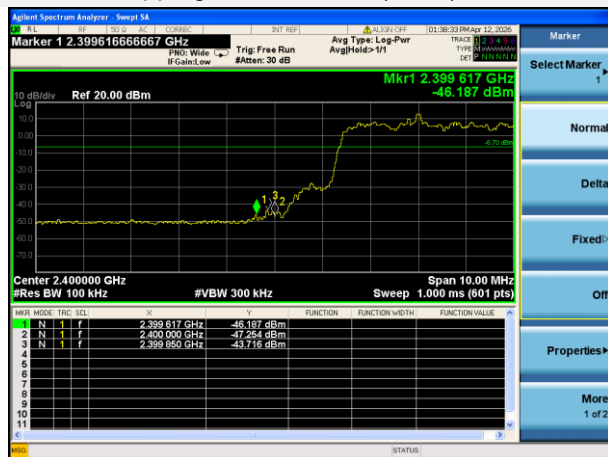
GFSK HOPPING BAND EDGE (HIGH)

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

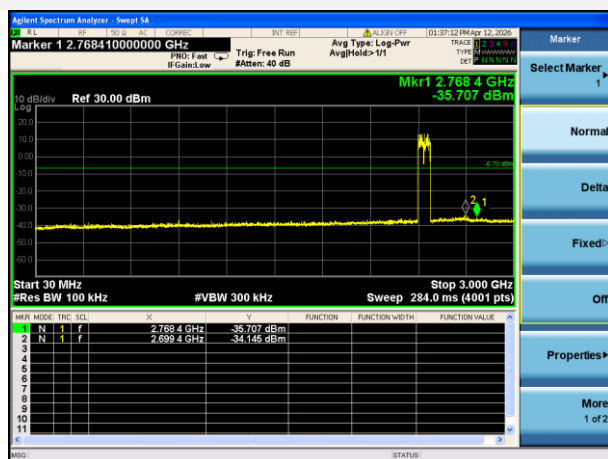
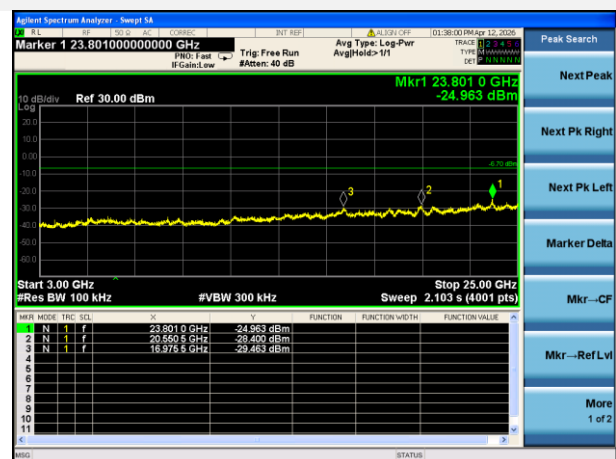
8-DPSK HOPPING, CARRIER LEVEL



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.

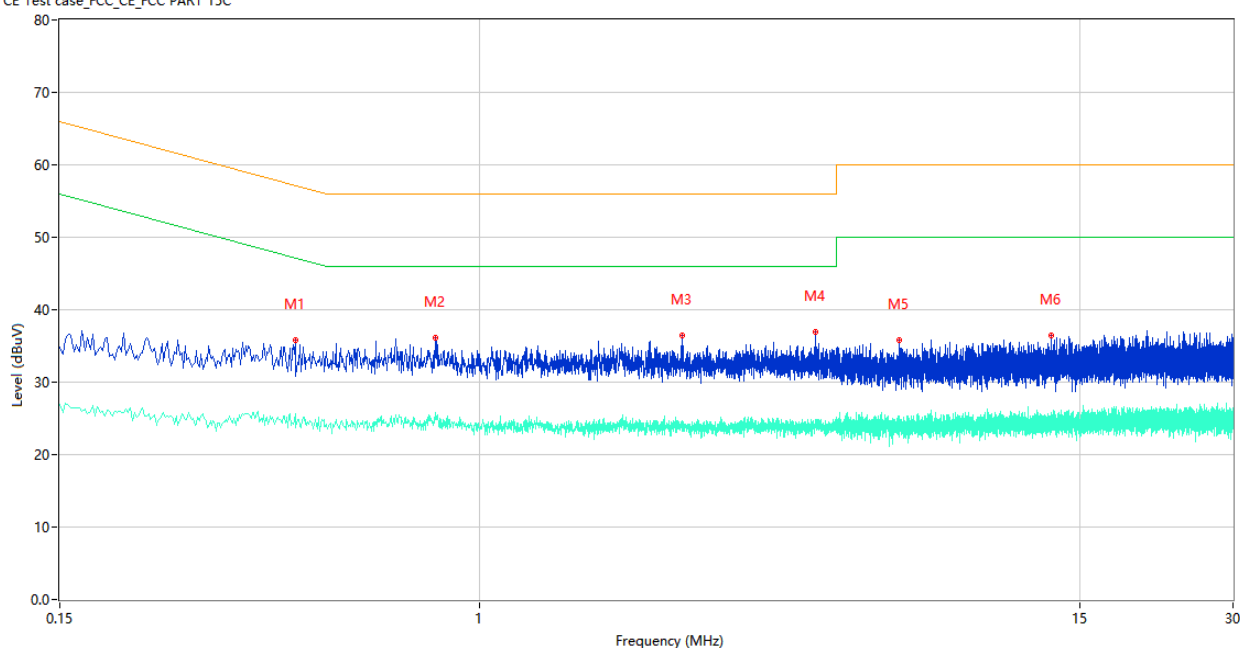
Note²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

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

Test Data and Plots

PHASE L

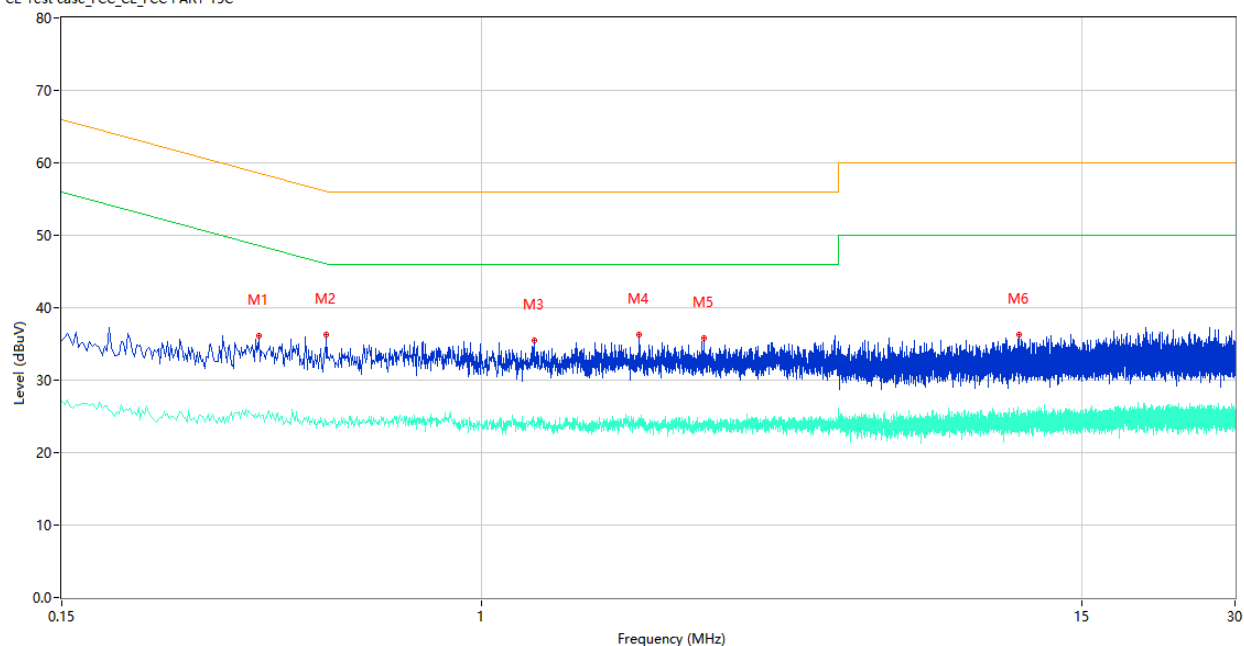
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.434	35.87	10.26	57.18	21.31	Peak	L	Pass
1**	0.434	25.58	10.26	47.18	21.60	AV	L	Pass
2	0.820	36.20	10.62	56.00	19.80	Peak	L	Pass
2**	0.820	25.76	10.62	46.00	20.24	AV	L	Pass
3	2.492	36.49	10.22	56.00	19.51	Peak	L	Pass
3**	2.492	24.35	10.22	46.00	21.65	AV	L	Pass
4	4.560	36.90	10.51	56.00	19.10	Peak	L	Pass
4**	4.560	24.31	10.51	46.00	21.69	AV	L	Pass
5	6.644	35.76	10.59	60.00	24.24	Peak	L	Pass
5**	6.644	24.71	10.59	50.00	25.29	AV	L	Pass
6	13.184	36.51	10.86	60.00	23.49	Peak	L	Pass
6**	13.184	23.12	10.86	50.00	26.88	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	0.366	36.10	10.75	58.59	22.49	Peak	N	Pass
1**	0.366	25.55	10.75	48.59	23.04	AV	N	Pass
2	0.496	36.31	10.04	56.07	19.76	Peak	N	Pass
2**	0.496	24.34	10.04	46.07	21.73	AV	N	Pass
3	1.266	35.54	10.53	56.00	20.46	Peak	N	Pass
3**	1.266	24.31	10.53	46.00	21.69	AV	N	Pass
4	2.038	36.32	10.49	56.00	19.68	Peak	N	Pass
4**	2.038	24.32	10.49	46.00	21.68	AV	N	Pass
5	2.722	35.83	10.16	56.00	20.17	Peak	N	Pass
5**	2.722	23.86	10.16	46.00	22.14	AV	N	Pass
6	11.292	36.30	10.50	60.00	23.70	Peak	N	Pass
6**	11.292	24.55	10.50	50.00	25.45	AV	N	Pass

A.8 Radiated Spurious Emission

Note¹: The symbol of "--" in the table which means not application.

Note²: 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.

Note³: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and DH5-Hopping mode is the worst.

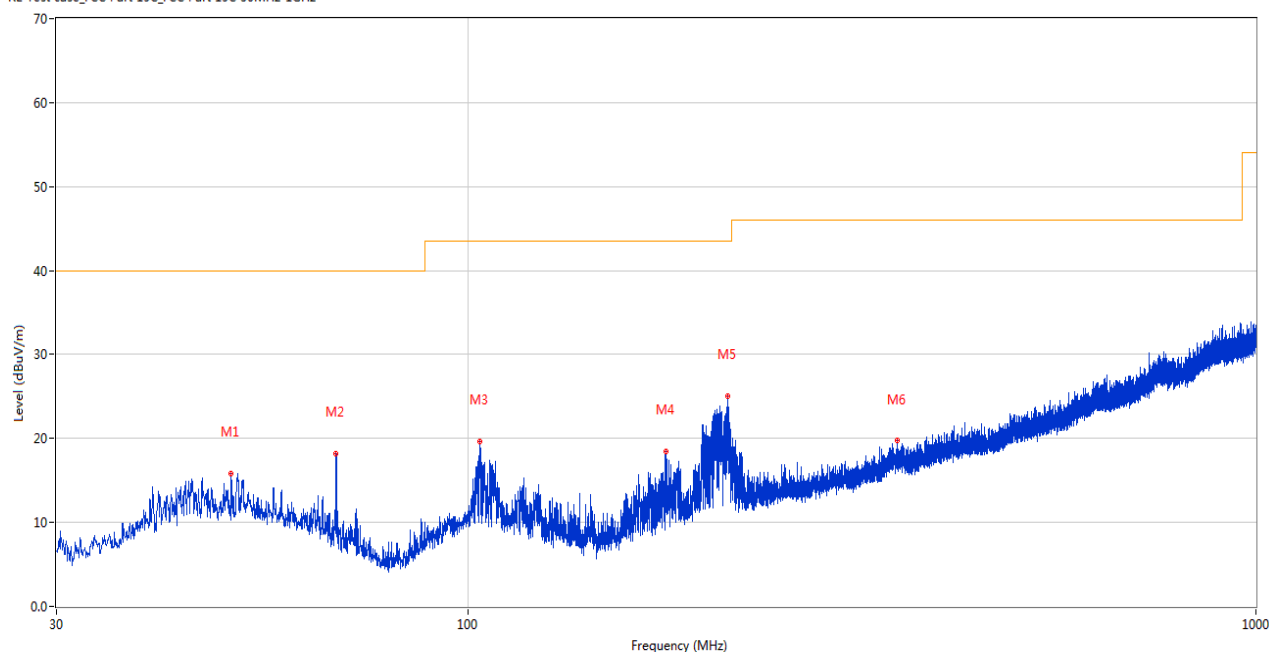
Note⁴: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

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

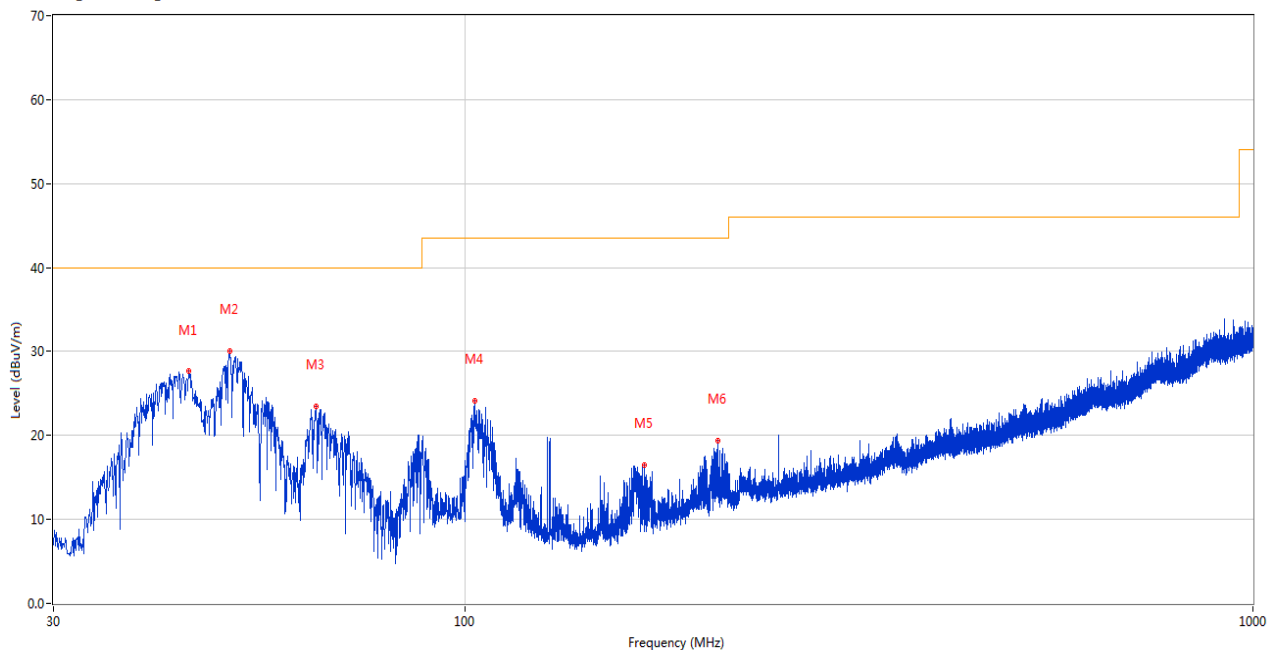
RE Test case_FCC Part 15C_FCC Part 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	49.982	15.87	-24.09	40.0	24.13	Peak	217.70	100	Horizontal	Pass
2	67.927	18.26	-27.46	40.0	21.74	Peak	104.40	100	Horizontal	Pass
3	103.526	19.63	-25.64	43.5	23.87	Peak	53.50	100	Horizontal	Pass
4	178.070	18.44	-26.64	43.5	25.06	Peak	320.10	100	Horizontal	Pass
5	213.233	25.00	-24.62	43.5	18.50	Peak	88.90	100	Horizontal	Pass
6	350.634	19.83	-19.18	46.0	26.17	Peak	18.70	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC Part 15C 30MHz-1GHz



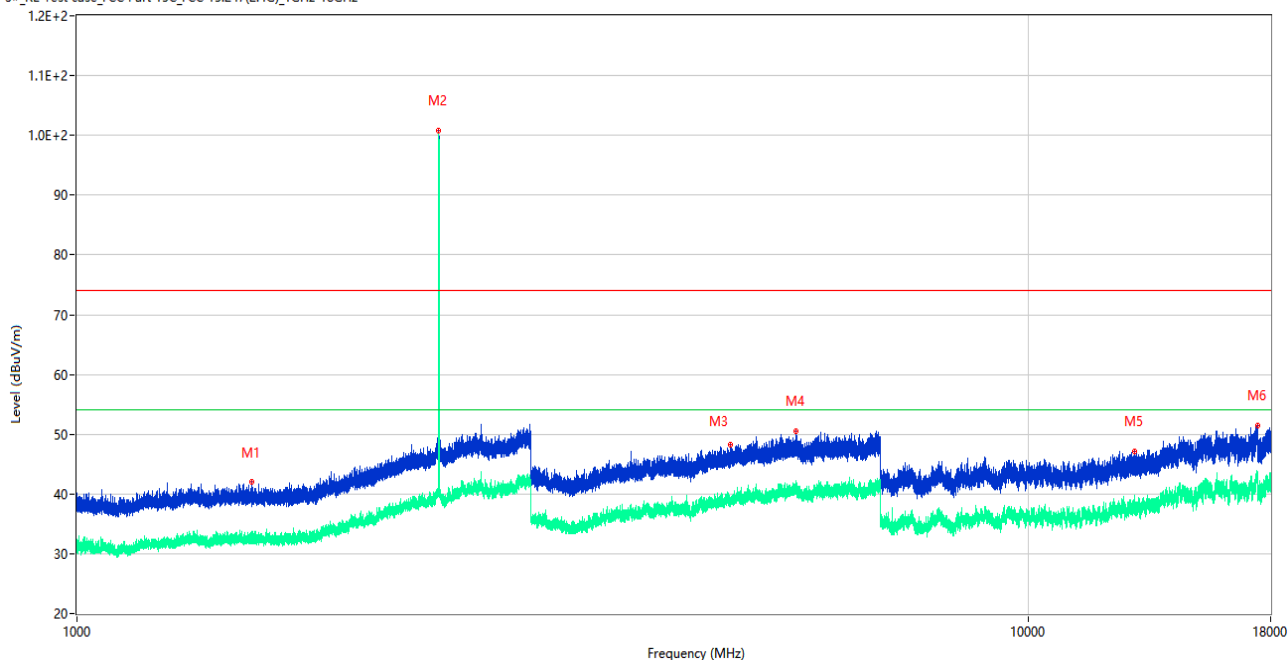
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	44.502	27.62	-24.55	40.0	12.38	Peak	298.80	100	Vertical	Pass
2	50.273	30.01	-24.09	40.0	9.99	Peak	303.30	100	Vertical	Pass
3	64.580	23.42	-26.48	40.0	16.58	Peak	0.00	100	Vertical	Pass
4	102.701	24.13	-25.62	43.5	19.37	Peak	306.50	100	Vertical	Pass
5	168.807	16.47	-27.07	43.5	27.03	Peak	155.80	100	Vertical	Pass
6	209.402	19.35	-24.75	43.5	24.15	Peak	12.20	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

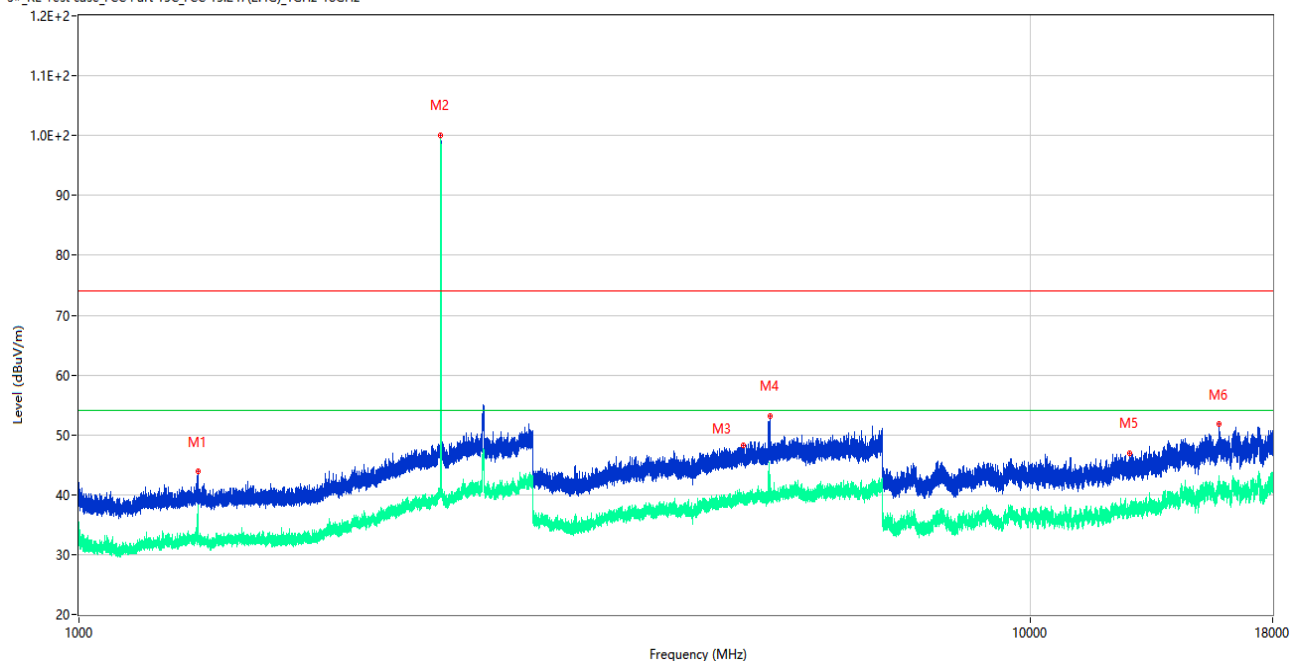
3#_RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1528.400	41.94	74.0	32.06	Peak	348.00	300	Horizontal	Pass
1**	1528.400	32.40	54.0	21.60	AV	348.00	300	Horizontal	Pass
2	2401.900	100.79	74.0	-26.79	Peak	23.00	200	Horizontal	N/A
2**	2401.900	100.42	54.0	-46.42	AV	23.00	200	Horizontal	N/A
3	4870.000	48.33	74.0	25.67	Peak	348.00	200	Horizontal	Pass
3**	4870.000	38.91	54.0	15.09	AV	348.00	200	Horizontal	Pass
4	5704.400	50.55	74.0	23.45	Peak	360.00	300	Horizontal	Pass
4**	5704.400	40.50	54.0	13.50	AV	360.00	300	Horizontal	Pass
5	12932.963	47.15	74.0	26.85	Peak	246.00	100	Horizontal	Pass
5**	12932.963	37.34	54.0	16.66	AV	246.00	100	Horizontal	Pass
6	17432.738	51.51	74.0	22.49	Peak	208.00	100	Horizontal	Pass
6**	17432.738	42.73	54.0	11.27	AV	208.00	100	Horizontal	Pass

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

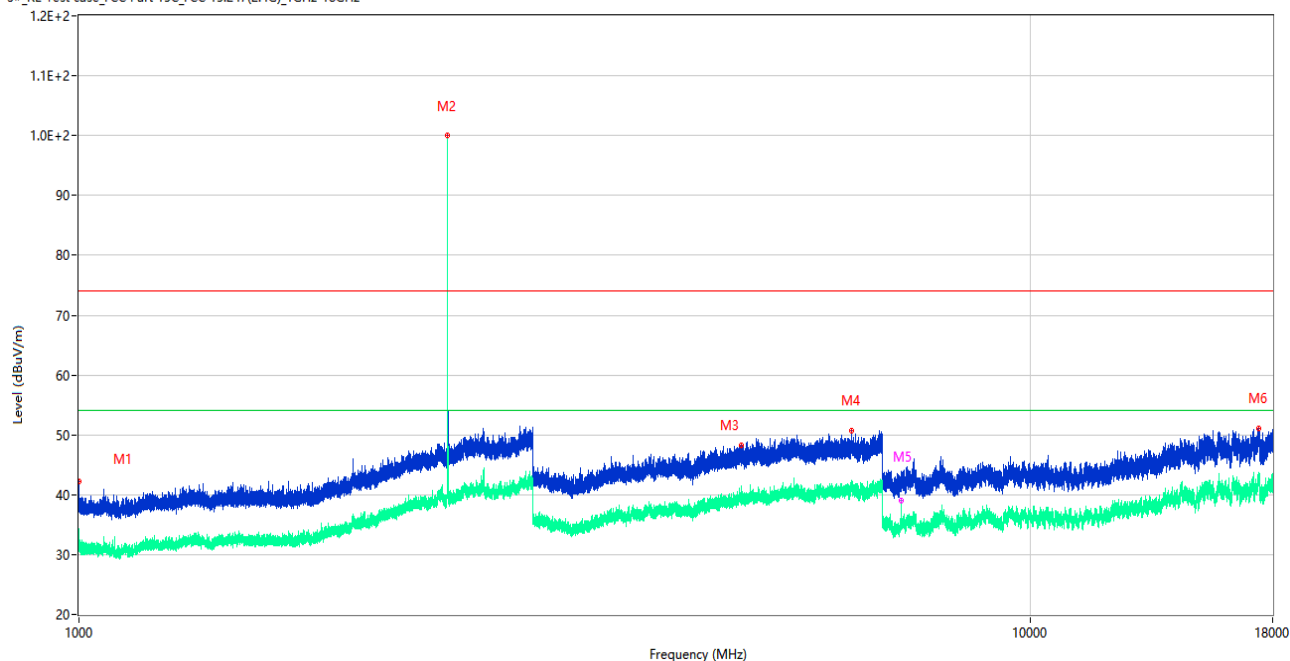
3#_RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.300	43.83	74.0	30.17	Peak	144.00	300	Vertical	Pass
1**	1333.300	33.61	54.0	20.39	AV	144.00	300	Vertical	Pass
2	2402.200	100.04	74.0	-26.04	Peak	33.00	100	Vertical	N/A
2**	2402.200	99.70	54.0	-45.70	AV	33.00	100	Vertical	N/A
3	4992.600	48.23	74.0	25.77	Peak	189.00	150	Vertical	Pass
3**	4992.600	39.11	54.0	14.89	AV	189.00	150	Vertical	Pass
4	5328.600	53.23	74.0	20.77	Peak	99.00	200	Vertical	Pass
4**	5328.600	42.73	54.0	11.27	AV	99.00	200	Vertical	Pass
5	12731.312	47.01	74.0	26.99	Peak	242.00	300	Vertical	Pass
5**	12731.312	37.17	54.0	16.83	AV	242.00	300	Vertical	Pass
6	15801.825	51.91	74.0	22.09	Peak	247.00	150	Vertical	Pass
6**	15801.825	42.02	54.0	11.98	AV	247.00	150	Vertical	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

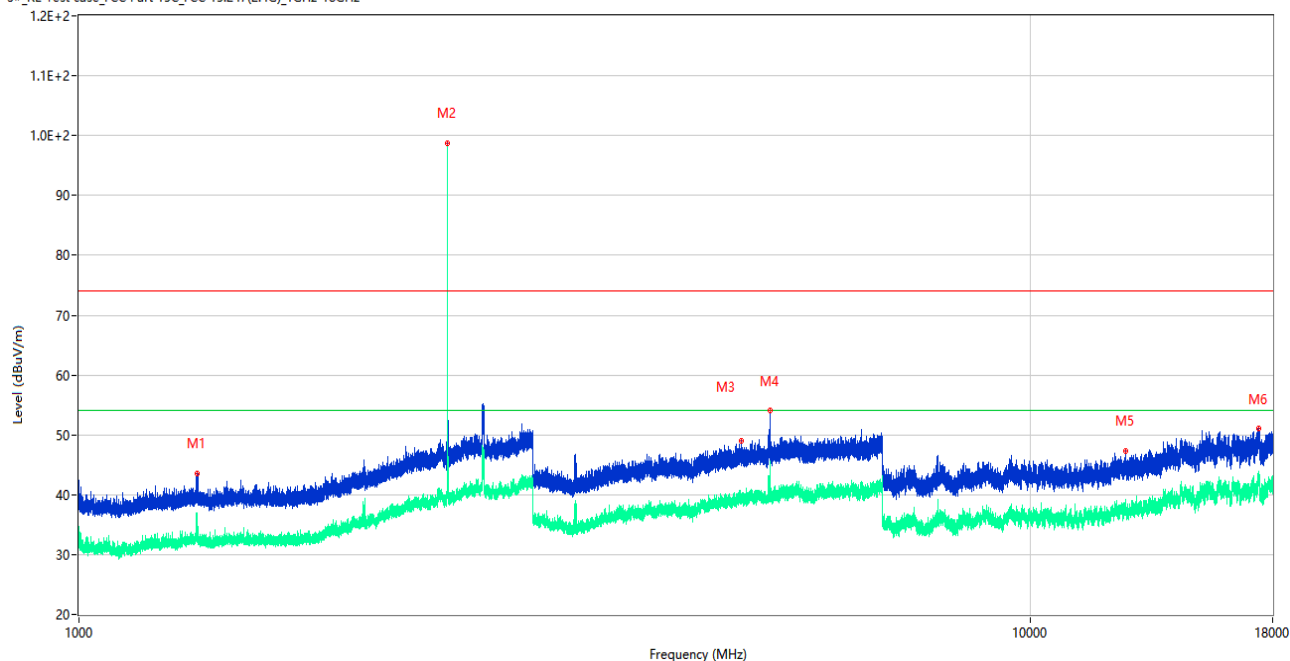
3#_RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1000.000	42.28	74.0	31.72	Peak	122.00	200	Horizontal	Pass
1**	1000.000	31.52	54.0	22.48	AV	122.00	200	Horizontal	Pass
2	2440.800	100.00	74.0	-26.00	Peak	8.00	100	Horizontal	N/A
2**	2440.800	99.16	54.0	-45.16	AV	8.00	100	Horizontal	N/A
3	4974.600	48.34	74.0	25.66	Peak	245.00	100	Horizontal	Pass
3**	4974.600	38.90	54.0	15.10	AV	245.00	100	Horizontal	Pass
4	6490.800	50.74	74.0	23.26	Peak	54.00	300	Horizontal	Pass
4**	6490.800	42.16	54.0	11.84	AV	54.00	300	Horizontal	Pass
5	7323.438	42.95	74.0	31.05	Peak	208.00	150	Horizontal	Pass
5**	7323.438	38.95	54.0	15.05	AV	208.00	150	Horizontal	Pass
6	17416.724	51.16	74.0	22.84	Peak	188.00	400	Horizontal	Pass
6**	17416.724	42.62	54.0	11.38	AV	188.00	400	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

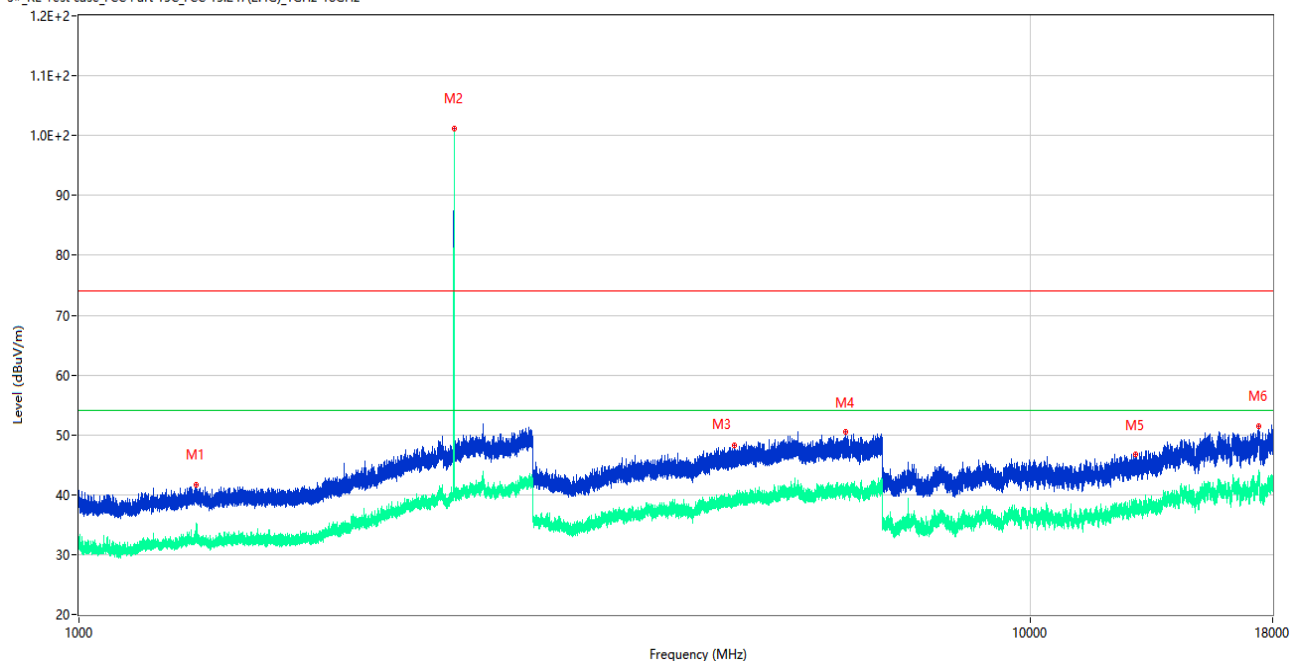
3#_RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.600	43.58	74.0	30.42	Peak	125.00	400	Vertical	Pass
1**	1330.600	34.65	54.0	19.35	AV	125.00	400	Vertical	Pass
2	2440.900	98.79	74.0	-24.79	Peak	119.00	200	Vertical	N/A
2**	2440.900	98.32	54.0	-44.32	AV	119.00	200	Vertical	N/A
3	4974.600	49.02	74.0	24.98	Peak	360.00	100	Vertical	Pass
3**	4974.600	39.53	54.0	14.47	AV	360.00	100	Vertical	Pass
4	5333.400	54.02	74.0	19.98	Peak	100.00	100	Vertical	Pass
4**	5333.400	39.90	54.0	14.10	AV	100.00	100	Vertical	Pass
5	12599.925	47.32	74.0	26.68	Peak	122.00	100	Vertical	Pass
5**	12599.925	38.95	54.0	15.05	AV	122.00	100	Vertical	Pass
6	17398.350	50.99	74.0	23.01	Peak	145.00	150	Vertical	Pass
6**	17398.350	42.22	54.0	11.78	AV	145.00	150	Vertical	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

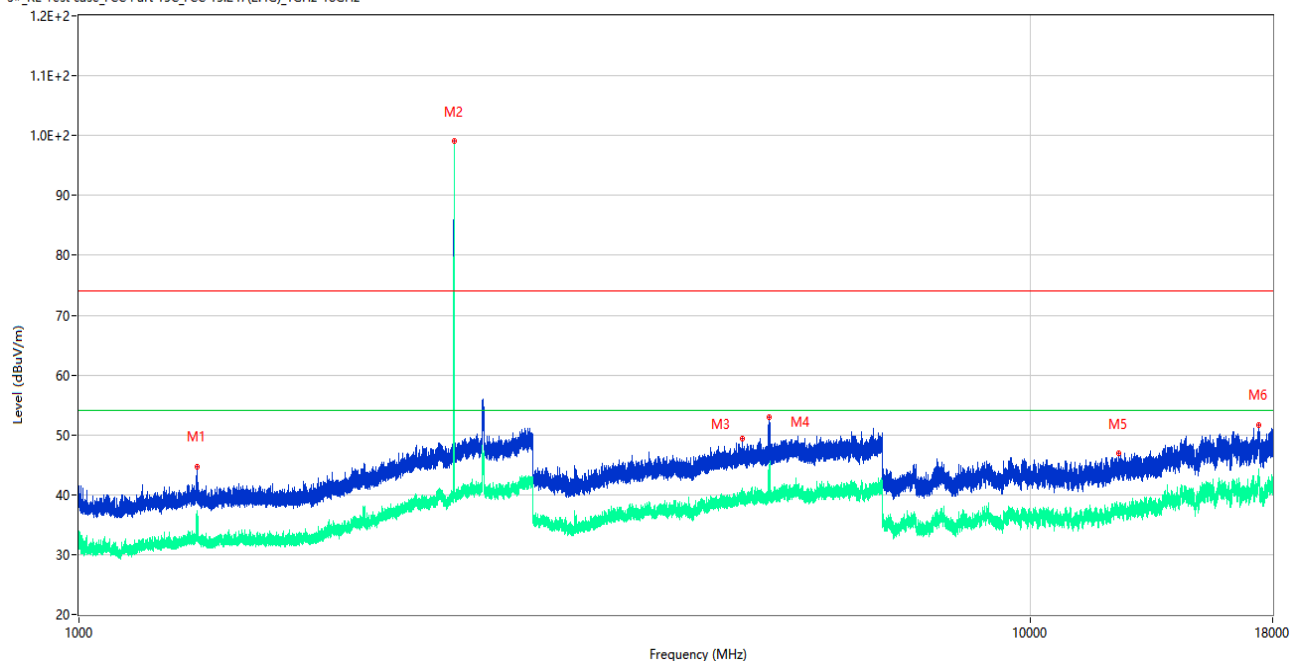
3#_RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.100	41.65	74.0	32.35	Peak	157.00	100	Horizontal	Pass
1**	1329.100	32.82	54.0	21.18	AV	157.00	100	Horizontal	Pass
2	2479.900	101.24	74.0	-27.24	Peak	11.00	100	Horizontal	N/A
2**	2479.900	100.46	54.0	-46.46	AV	11.00	100	Horizontal	N/A
3	4883.800	48.28	74.0	25.72	Peak	178.00	100	Horizontal	Pass
3**	4883.800	39.34	54.0	14.66	AV	178.00	100	Horizontal	Pass
4	6399.800	50.49	74.0	23.51	Peak	281.00	100	Horizontal	Pass
4**	6399.800	40.81	54.0	13.19	AV	281.00	100	Horizontal	Pass
5	12911.175	46.67	74.0	27.33	Peak	35.00	300	Horizontal	Pass
5**	12911.175	37.28	54.0	16.72	AV	35.00	300	Horizontal	Pass
6	17403.339	51.47	74.0	22.53	Peak	247.00	400	Horizontal	Pass
6**	17403.339	42.60	54.0	11.40	AV	247.00	400	Horizontal	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

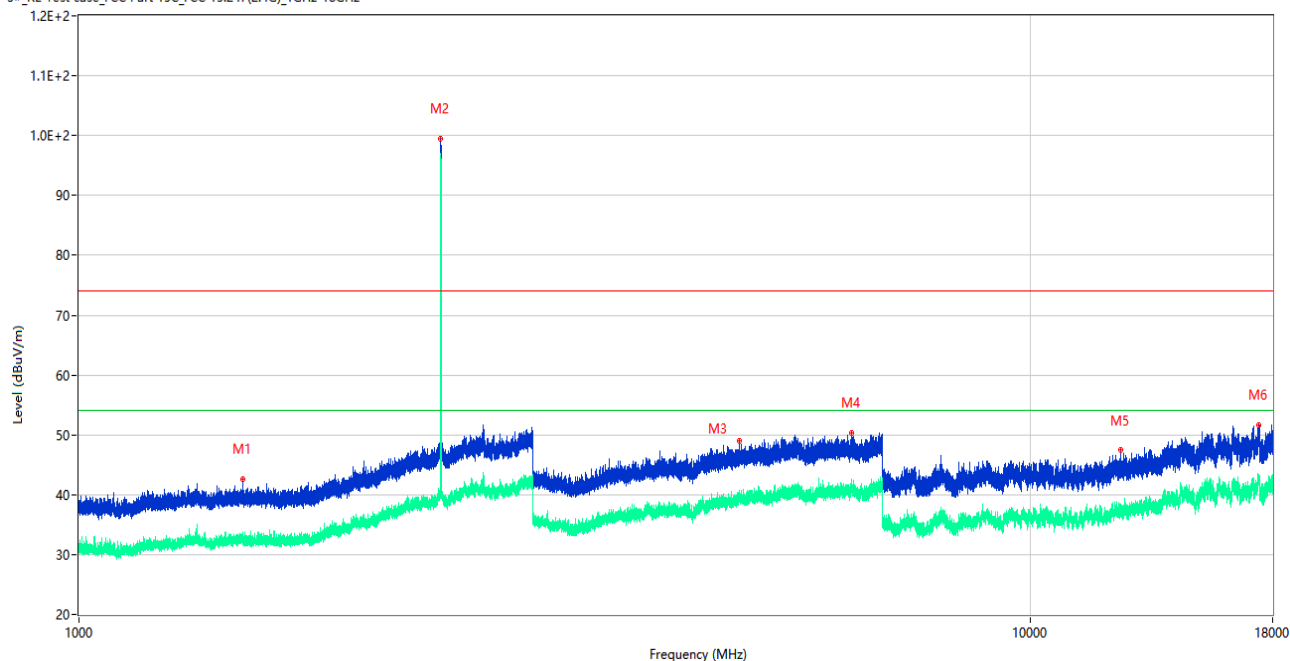
3#_RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.600	44.73	74.0	29.27	Peak	150.00	100	Vertical	Pass
1**	1330.600	33.77	54.0	20.23	AV	150.00	100	Vertical	Pass
2	2479.900	99.03	74.0	-25.03	Peak	51.00	150	Vertical	N/A
2**	2479.900	98.64	54.0	-44.64	AV	51.00	150	Vertical	N/A
3	4985.200	49.33	74.0	24.67	Peak	65.00	200	Vertical	Pass
3**	4985.200	39.22	54.0	14.78	AV	65.00	200	Vertical	Pass
4	5312.800	52.92	74.0	21.08	Peak	99.00	400	Vertical	Pass
4**	5312.800	42.06	54.0	11.94	AV	99.00	400	Vertical	Pass
5	12397.237	46.91	74.0	27.09	Peak	2.00	400	Vertical	Pass
5**	12397.237	37.14	54.0	16.86	AV	2.00	400	Vertical	Pass
6	17386.275	51.68	74.0	22.32	Peak	0.00	200	Vertical	Pass
6**	17386.275	40.36	54.0	13.64	AV	0.00	200	Vertical	Pass

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

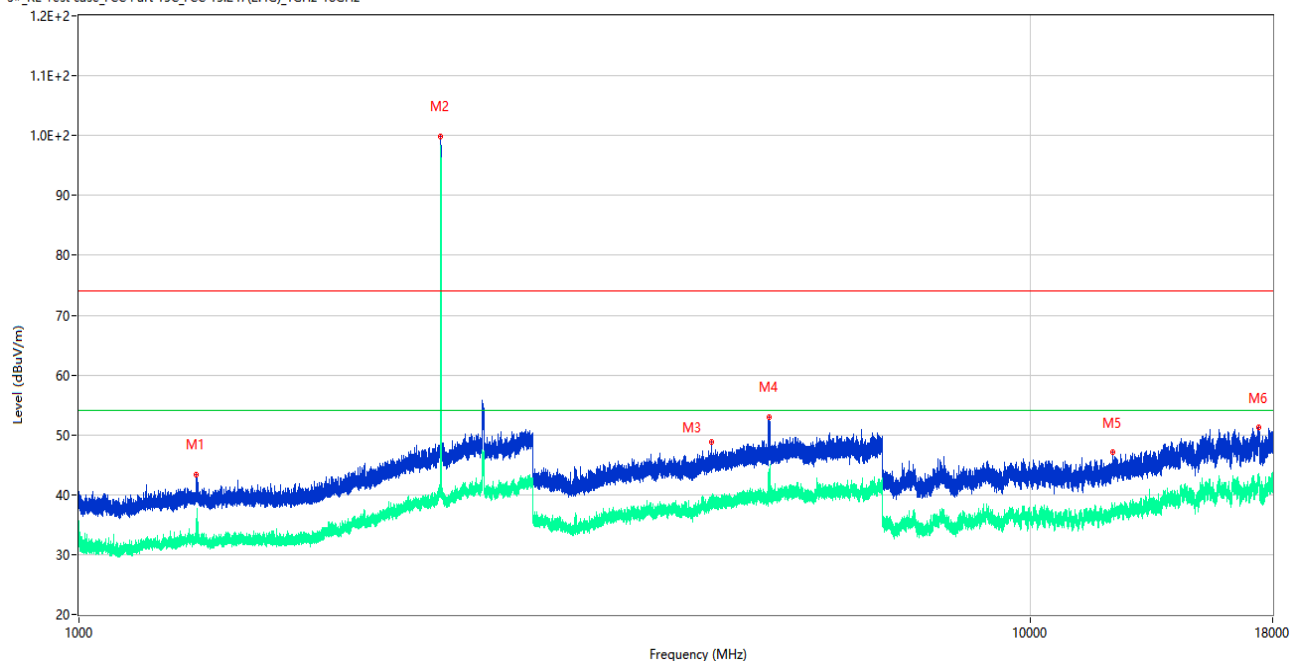
3#_RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1487.200	42.62	74.0	31.38	Peak	166.00	100	Horizontal	Pass
1**	1487.200	32.20	54.0	21.80	AV	166.00	100	Horizontal	Pass
2	2401.900	99.54	74.0	-25.54	Peak	9.00	200	Horizontal	N/A
2**	2401.900	96.79	54.0	-42.79	AV	9.00	200	Horizontal	N/A
3	4946.200	49.05	74.0	24.95	Peak	304.00	100	Horizontal	Pass
3**	4946.200	40.64	54.0	13.36	AV	304.00	100	Horizontal	Pass
4	6488.400	50.38	74.0	23.62	Peak	122.00	400	Horizontal	Pass
4**	6488.400	40.44	54.0	13.56	AV	122.00	400	Horizontal	Pass
5	12463.075	47.43	74.0	26.57	Peak	172.00	100	Horizontal	Pass
5**	12463.075	37.25	54.0	16.75	AV	172.00	100	Horizontal	Pass
6	17411.738	51.70	74.0	22.30	Peak	56.00	100	Horizontal	Pass
6**	17411.738	42.19	54.0	11.81	AV	56.00	100	Horizontal	Pass

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

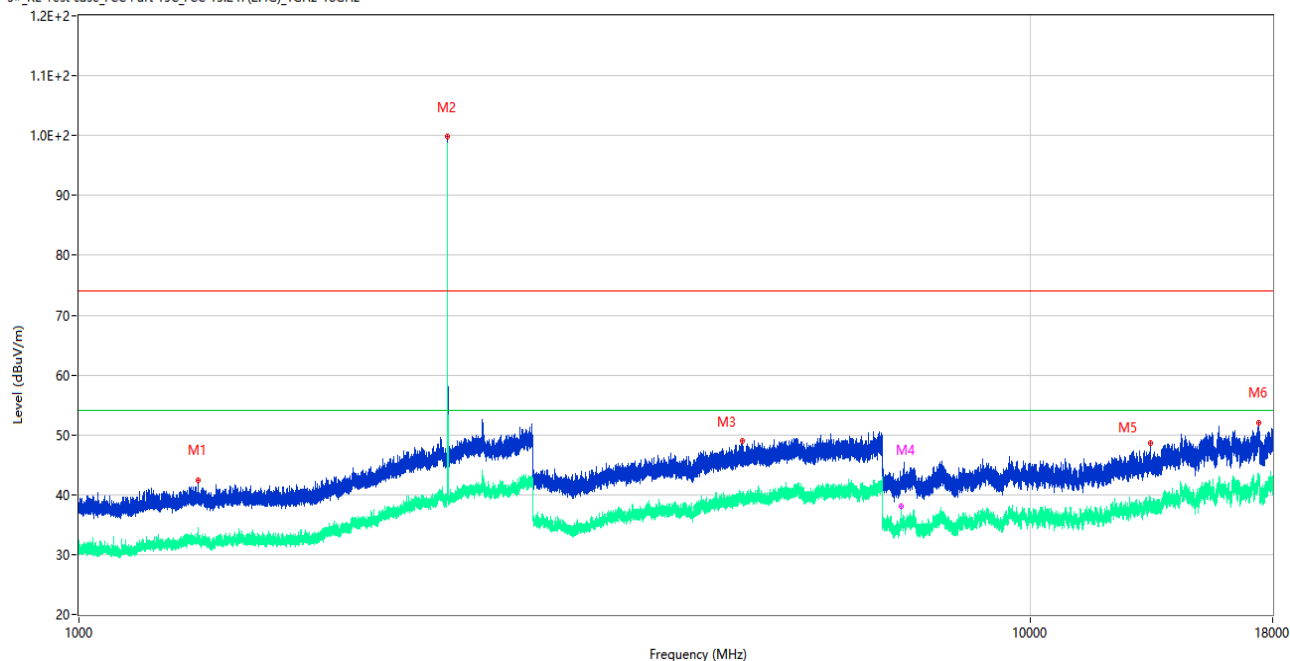
3#_RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.400	43.38	74.0	30.62	Peak	86.00	400	Vertical	Pass
1**	1329.400	35.17	54.0	18.83	AV	86.00	400	Vertical	Pass
2	2402.000	99.86	74.0	-25.86	Peak	36.00	100	Vertical	N/A
2**	2402.000	98.18	54.0	-44.18	AV	36.00	100	Vertical	N/A
3	4625.600	48.78	74.0	25.22	Peak	119.00	150	Vertical	Pass
3**	4625.600	39.85	54.0	14.15	AV	119.00	150	Vertical	Pass
4	5320.000	53.03	74.0	20.97	Peak	96.00	200	Vertical	Pass
4**	5320.000	39.91	54.0	14.09	AV	96.00	200	Vertical	Pass
5	12231.349	47.05	74.0	26.95	Peak	35.00	200	Vertical	Pass
5**	12231.349	37.06	54.0	16.94	AV	35.00	200	Vertical	Pass
6	17397.301	51.20	74.0	22.80	Peak	0.00	400	Vertical	Pass
6**	17397.301	42.80	54.0	11.20	AV	0.00	400	Vertical	Pass

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

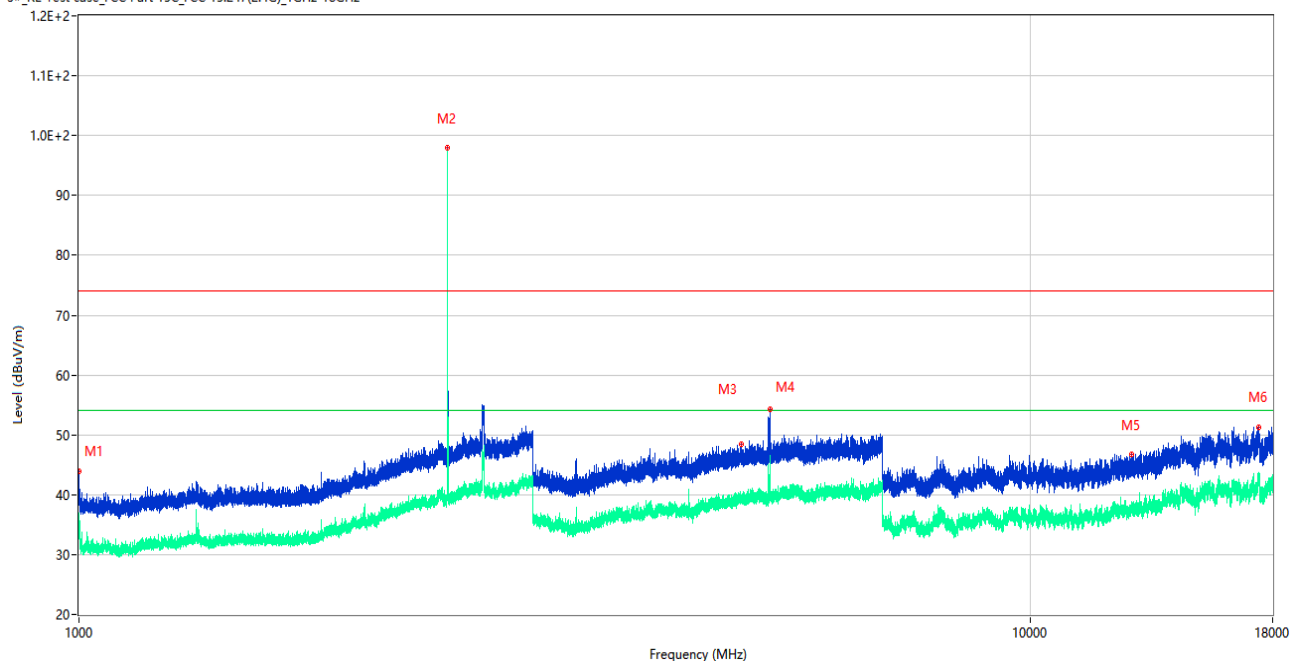
3#_RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.300	42.41	74.0	31.59	Peak	162.00	100	Horizontal	Pass
1**	1333.300	32.23	54.0	21.77	AV	162.00	100	Horizontal	Pass
2	2440.900	99.81	74.0	-25.81	Peak	10.00	200	Horizontal	N/A
2**	2440.900	98.27	54.0	-44.27	AV	10.00	200	Horizontal	N/A
3	4982.000	49.09	74.0	24.91	Peak	134.00	200	Horizontal	Pass
3**	4982.000	39.16	54.0	14.84	AV	134.00	200	Horizontal	Pass
4	7323.150	42.27	74.0	31.73	Peak	242.00	150	Horizontal	Pass
4**	7323.150	38.09	54.0	15.91	AV	242.00	150	Horizontal	Pass
5	13381.838	48.63	74.0	25.37	Peak	304.00	150	Horizontal	Pass
5**	13381.838	38.81	54.0	15.19	AV	304.00	150	Horizontal	Pass
6	17410.687	52.09	74.0	21.91	Peak	152.00	100	Horizontal	Pass
6**	17410.687	41.77	54.0	12.23	AV	152.00	100	Horizontal	Pass

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

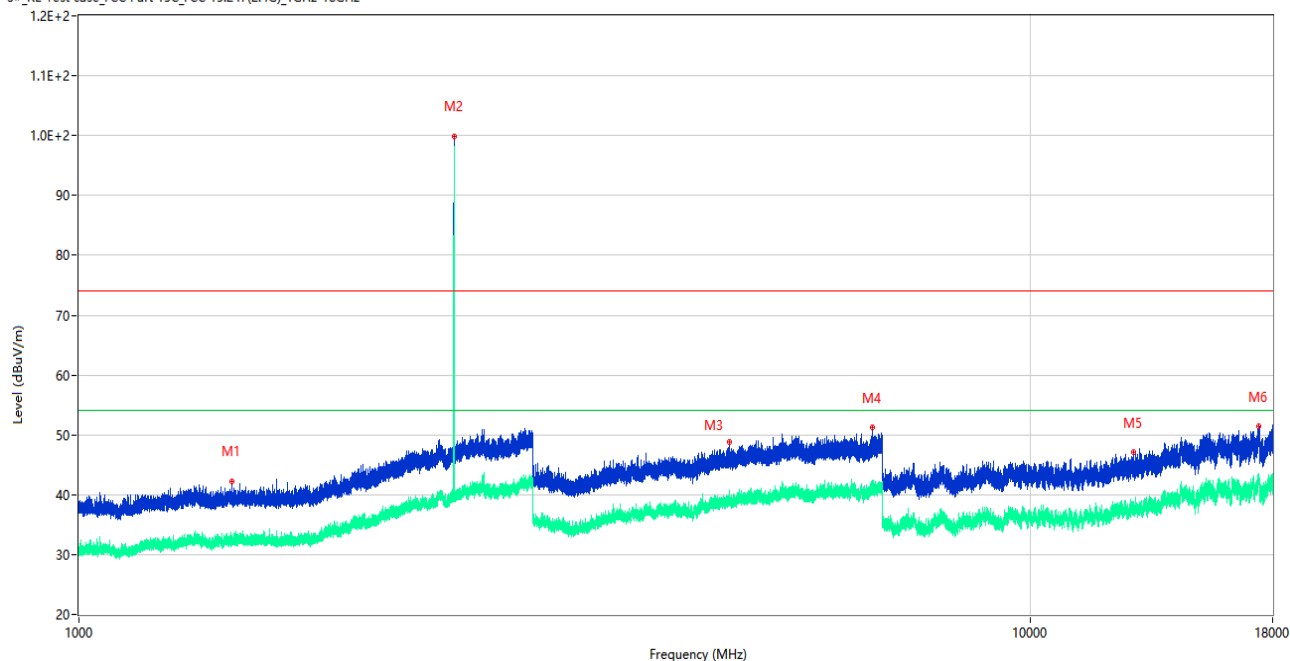
3#_RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1000.800	43.90	74.0	30.10	Peak	21.00	100	Vertical	Pass
1**	1000.800	34.59	54.0	19.41	AV	21.00	100	Vertical	Pass
2	2441.100	97.95	74.0	-23.95	Peak	127.00	100	Vertical	N/A
2**	2441.100	97.51	54.0	-43.51	AV	127.00	100	Vertical	N/A
3	4974.000	48.40	74.0	25.60	Peak	19.00	200	Vertical	Pass
3**	4974.000	39.01	54.0	14.99	AV	19.00	200	Vertical	Pass
4	5333.200	54.23	74.0	19.77	Peak	98.00	400	Vertical	Pass
4**	5333.200	41.99	54.0	12.01	AV	98.00	400	Vertical	Pass
5	12794.100	46.71	74.0	27.29	Peak	74.00	200	Vertical	Pass
5**	12794.100	37.62	54.0	16.38	AV	74.00	200	Vertical	Pass
6	17401.762	51.34	74.0	22.66	Peak	189.00	150	Vertical	Pass
6**	17401.762	42.11	54.0	11.89	AV	189.00	150	Vertical	Pass

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

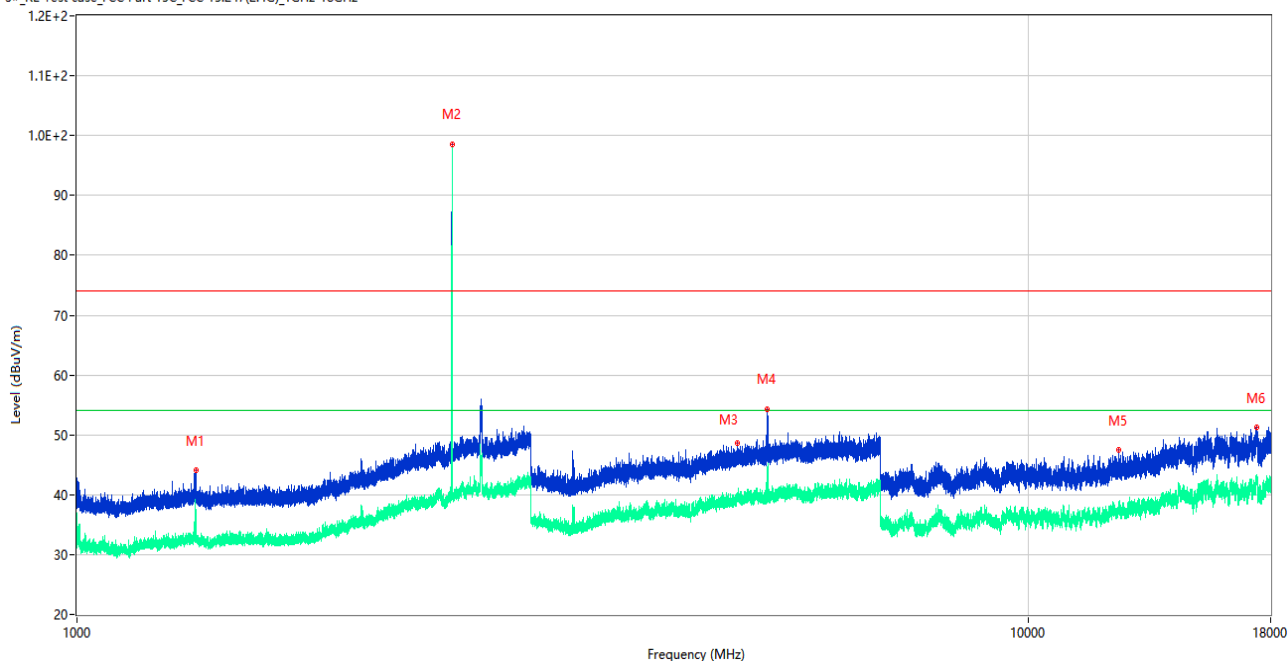
3#_RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1447.700	42.25	74.0	31.75	Peak	44.00	300	Horizontal	Pass
1**	1447.700	32.11	54.0	21.89	AV	44.00	300	Horizontal	Pass
2	2480.200	99.92	74.0	-25.92	Peak	13.00	200	Horizontal	N/A
2**	2480.200	98.08	54.0	-44.08	AV	13.00	200	Horizontal	N/A
3	4833.000	48.85	74.0	25.15	Peak	236.00	200	Horizontal	Pass
3**	4833.000	38.86	54.0	15.14	AV	236.00	200	Horizontal	Pass
4	6837.600	51.18	74.0	22.82	Peak	236.00	100	Horizontal	Pass
4**	6837.600	42.36	54.0	11.64	AV	236.00	100	Horizontal	Pass
5	12850.275	47.11	74.0	26.89	Peak	206.00	100	Horizontal	Pass
5**	12850.275	37.50	54.0	16.50	AV	206.00	100	Horizontal	Pass
6	17392.312	51.43	74.0	22.57	Peak	283.00	300	Horizontal	Pass
6**	17392.312	43.00	54.0	11.00	AV	283.00	300	Horizontal	Pass

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

3#_RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.100	44.06	74.0	29.94	Peak	160.00	200	Vertical	Pass
1**	1333.100	32.89	54.0	21.11	AV	160.00	200	Vertical	Pass
2	2480.100	98.56	74.0	-24.56	Peak	115.00	150	Vertical	N/A
2**	2480.100	98.29	54.0	-44.29	AV	115.00	150	Vertical	N/A
3	4942.600	48.71	74.0	25.29	Peak	245.00	200	Vertical	Pass
3**	4942.600	39.09	54.0	14.91	AV	245.00	200	Vertical	Pass
4	5316.600	54.33	74.0	19.67	Peak	99.00	200	Vertical	Pass
4**	5316.600	40.57	54.0	13.43	AV	99.00	200	Vertical	Pass
5	12463.075	47.44	74.0	26.56	Peak	156.00	400	Vertical	Pass
5**	12463.075	37.63	54.0	16.37	AV	156.00	400	Vertical	Pass
6	17414.099	51.17	74.0	22.83	Peak	112.00	300	Vertical	Pass
6**	17414.099	43.33	54.0	10.67	AV	112.00	300	Vertical	Pass

A.9 Band Edge (Restricted-band band-edge)

Note¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note²: 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.

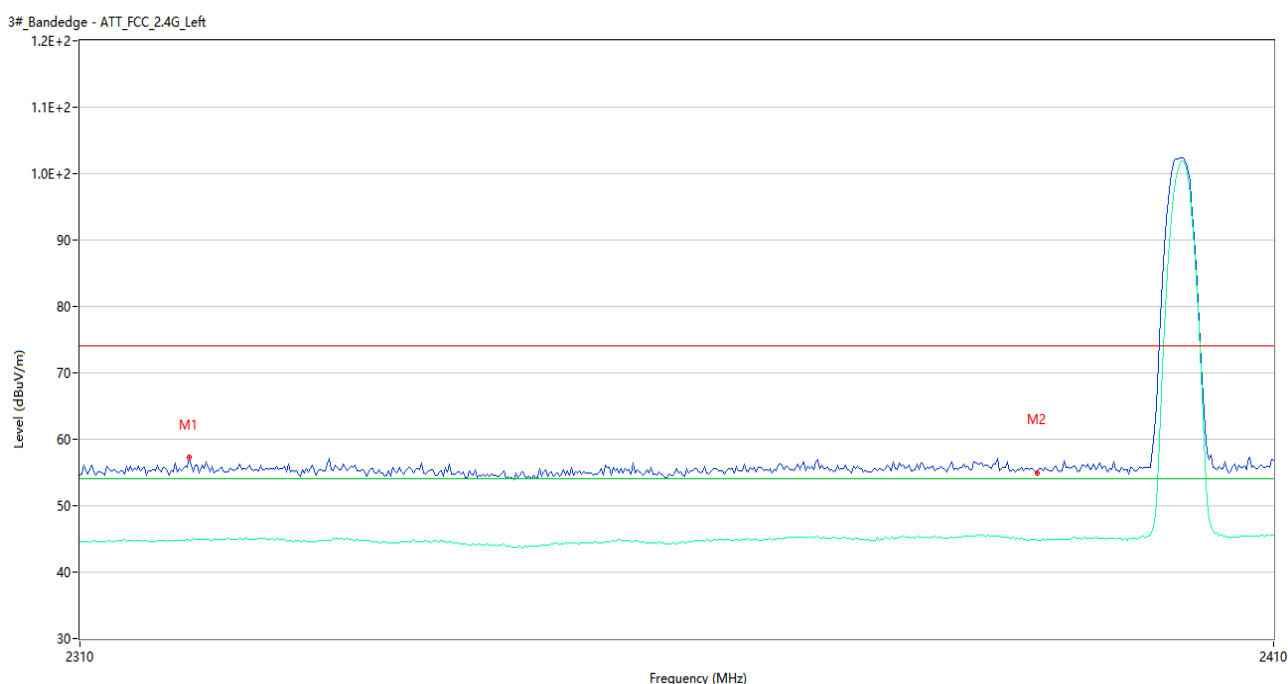
Note³: According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note⁴: The Level (dBuV/m) has been corrected by factor.

Note⁵: Both horizontal and vertical directions were pre tested, only the worst configuration has been reported in this report.

Test Data and Plots

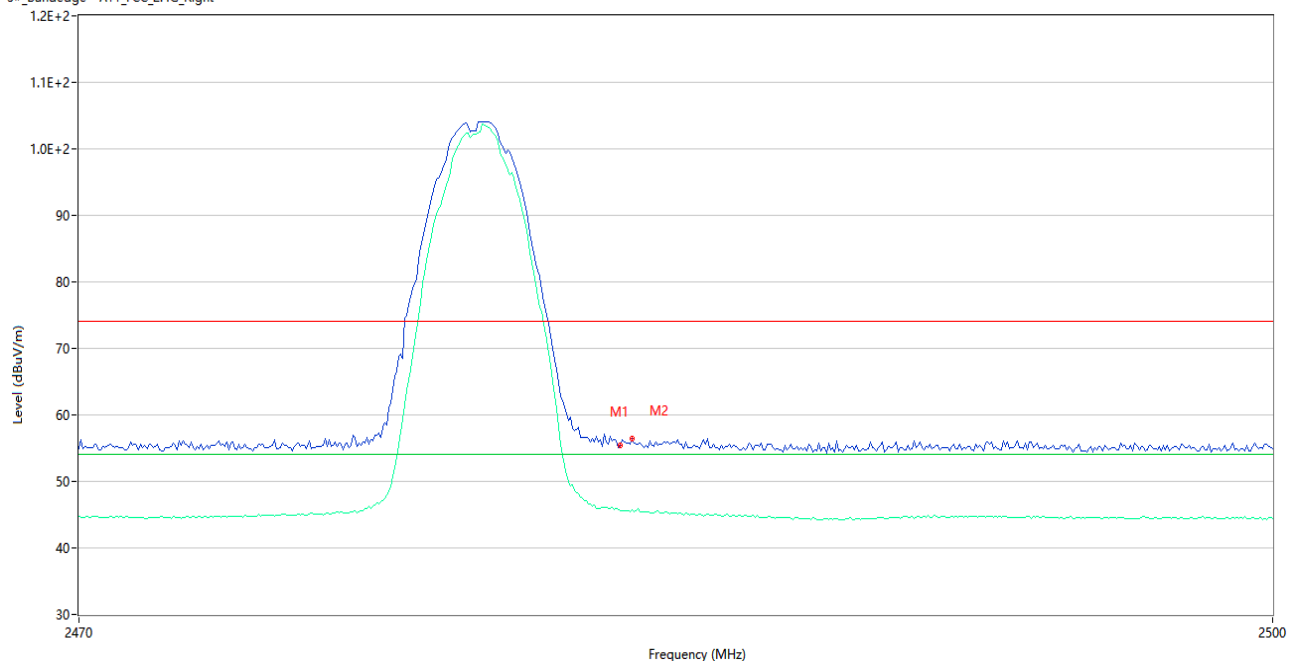
GFSK LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2319.000	57.29	74.0	16.71	Peak	6.00	200	Horizontal	Pass
1**	2319.000	44.80	54.0	9.20	AV	6.00	200	Horizontal	Pass
2	2389.833	54.96	74.0	19.04	Peak	141.00	200	Horizontal	Pass
2**	2389.833	44.75	54.0	9.25	AV	141.00	200	Horizontal	Pass

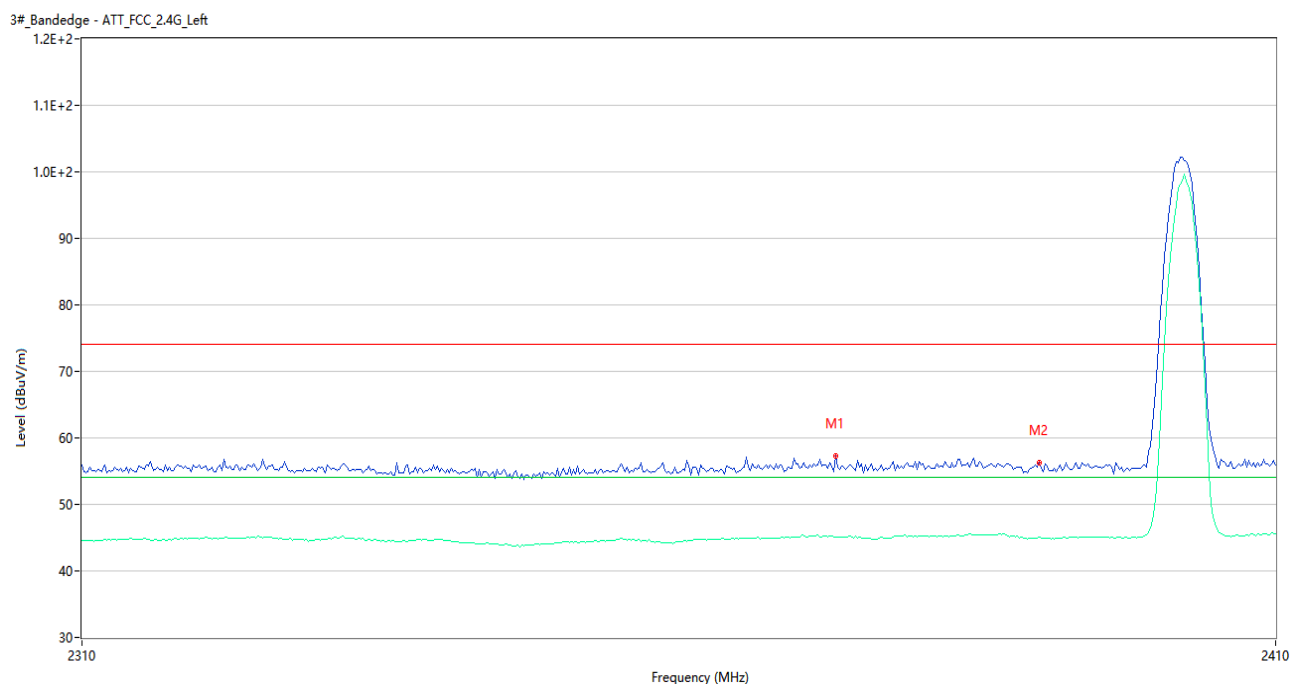
GFSK HIGH CHANNEL

3#_Bandedge - ATT_FCC_2.4G_Right



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	55.48	74.0	18.52	Peak	0.00	200	Horizontal	Pass
1**	2483.550	45.56	54.0	8.44	AV	0.00	200	Horizontal	Pass
2	2483.850	56.50	74.0	17.50	Peak	18.00	150	Horizontal	Pass
2**	2483.850	45.76	54.0	8.24	AV	18.00	150	Horizontal	Pass

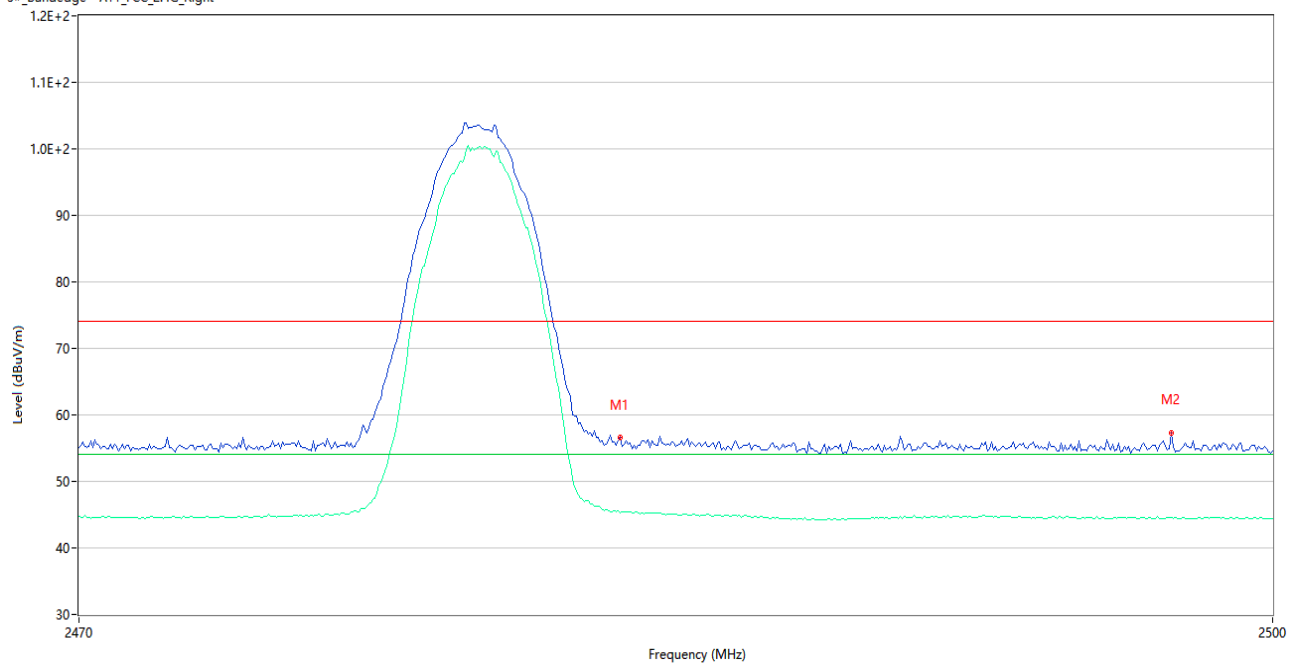
8-DPSK LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2372.667	57.24	74.0	16.76	Peak	200.00	200	Horizontal	Pass
1**	2372.667	45.14	54.0	8.86	AV	200.00	200	Horizontal	Pass
2	2389.833	56.21	74.0	17.79	Peak	10.00	200	Horizontal	Pass
2**	2389.833	45.01	54.0	8.99	AV	10.00	200	Horizontal	Pass

8-DPSK HIGH CHANNEL

3#_Bandedge - ATT_FCC_2.4G_Right



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	56.59	74.0	17.41	Peak	20.00	150	Horizontal	Pass
1**	2483.550	45.34	54.0	8.66	AV	20.00	150	Horizontal	Pass
2	2497.450	57.30	74.0	16.70	Peak	341.00	200	Horizontal	Pass
2**	2497.450	44.56	54.0	9.44	AV	341.00	200	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “Ti-EE26030137-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “Ti-EE26030137-AW-2.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “Ti-EE26030137-AI-2.PDF”.

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--END OF REPORT--