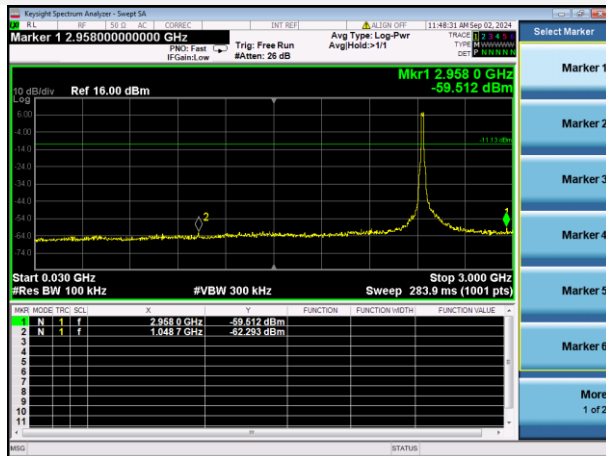
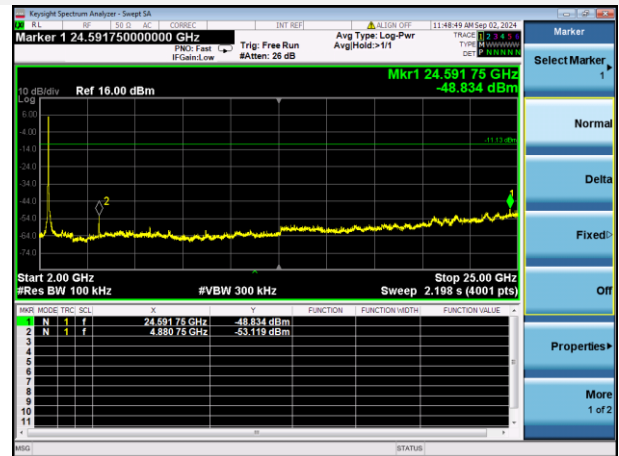


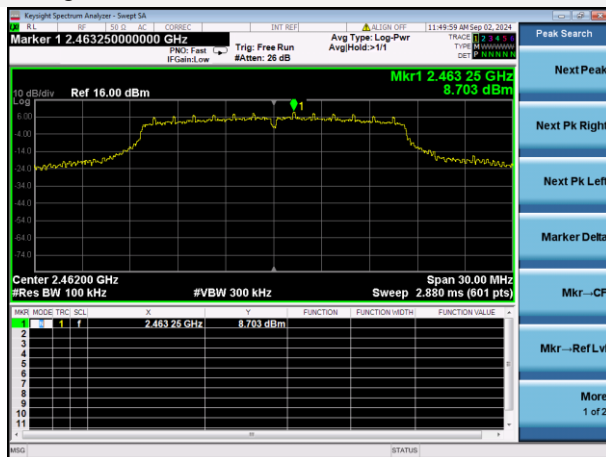
802.11g MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



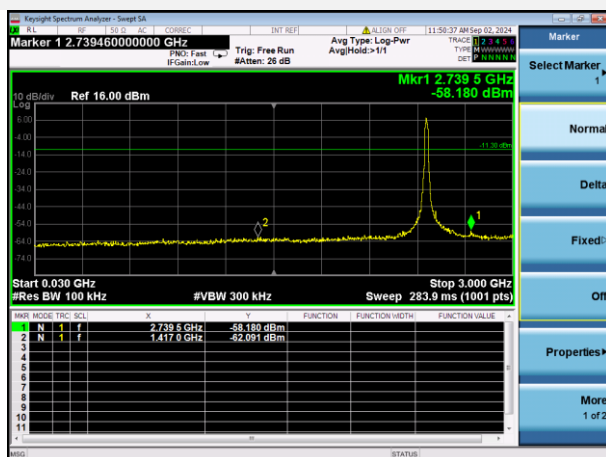
802.11g MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



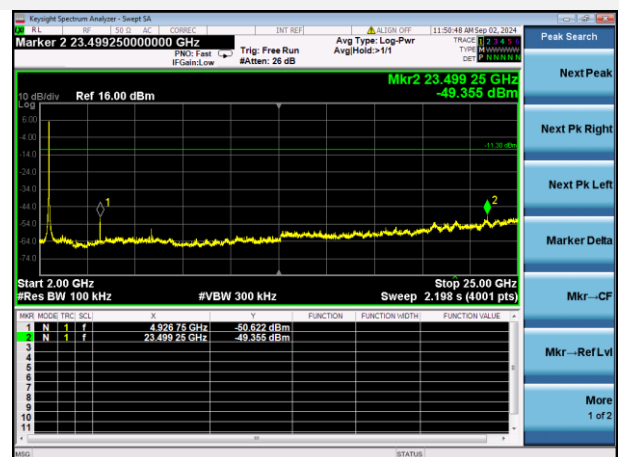
802.11g HIGH CHANNEL CARRIER LEVEL



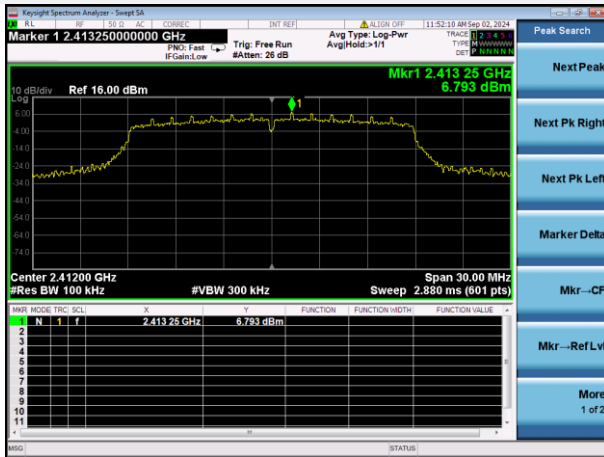
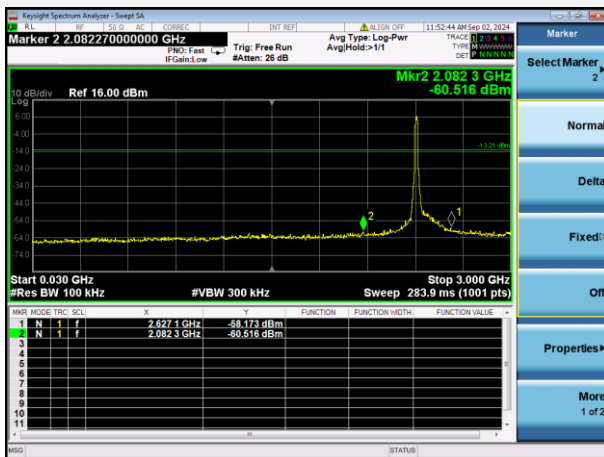
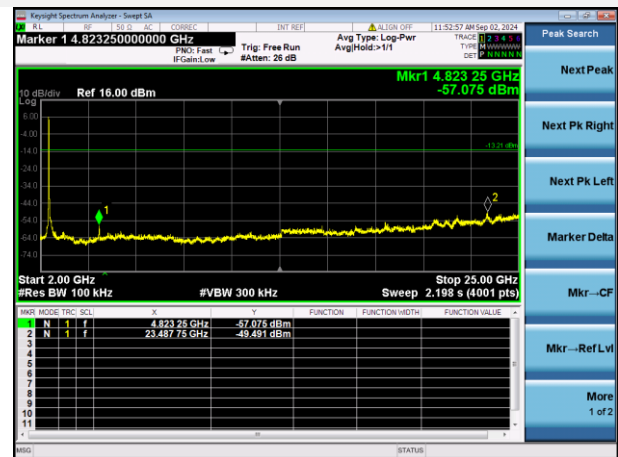
802.11g HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



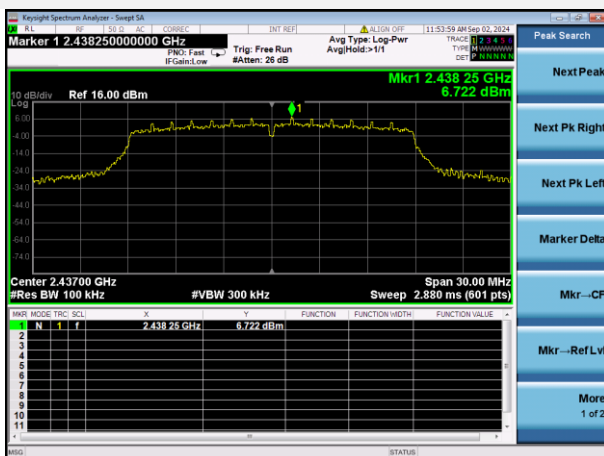
802.11g HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



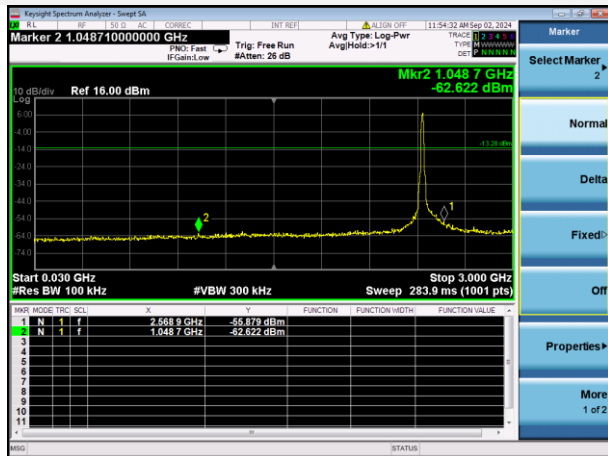
802.11n-20 MHz LOW CHANNEL CARRIER LEVEL

802.11n-20 MHz LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz802.11n-20 MHz LOW CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

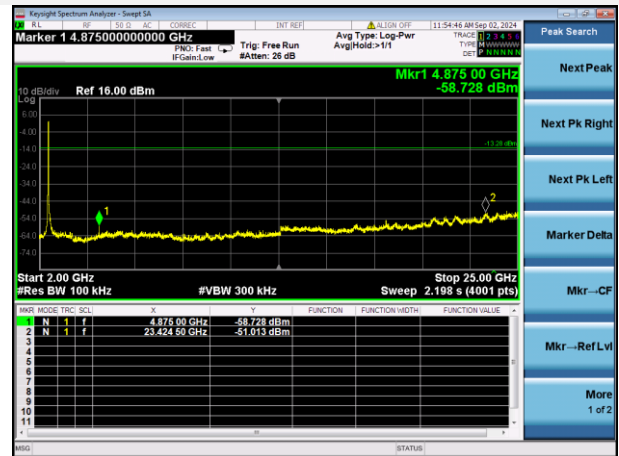
802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL



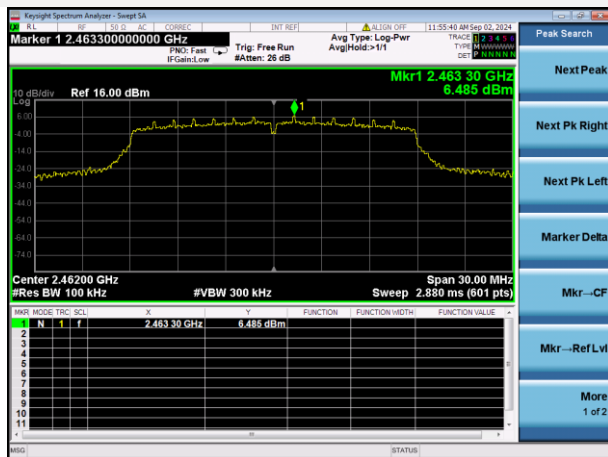
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



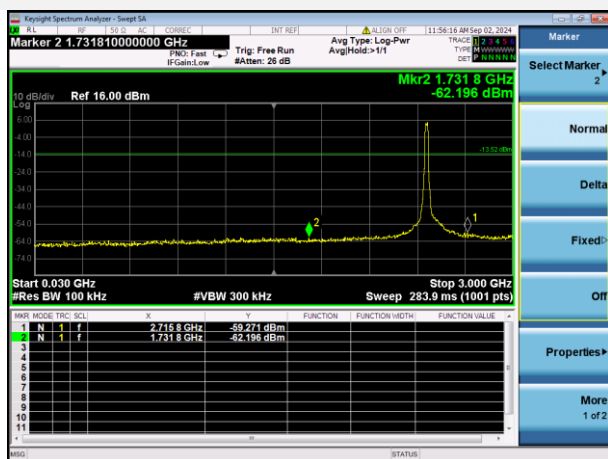
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



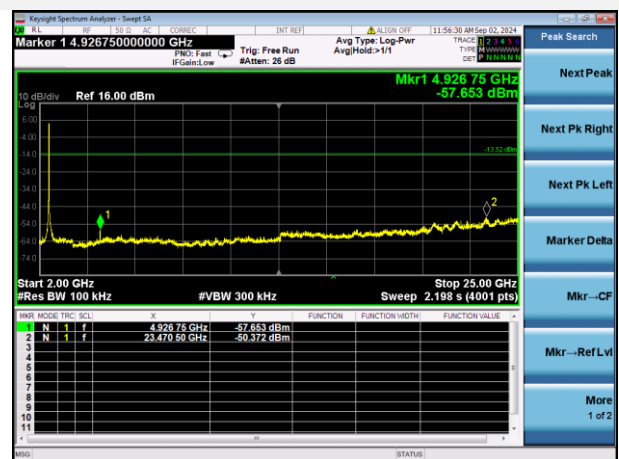
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



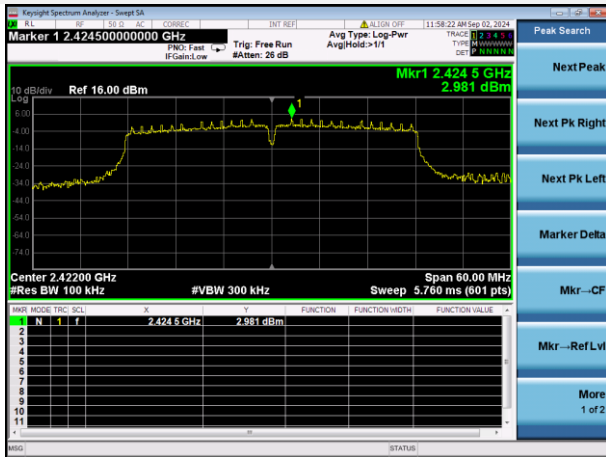
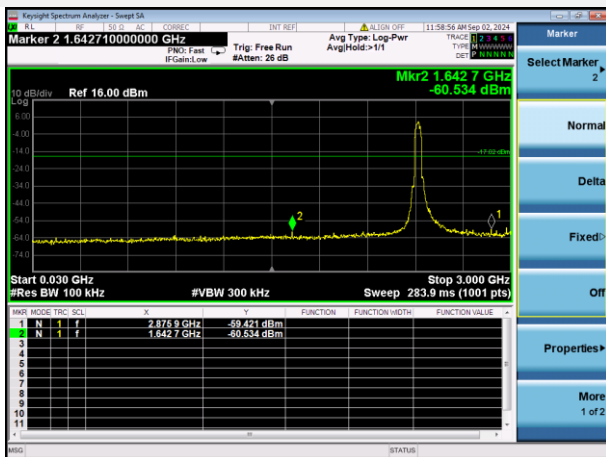
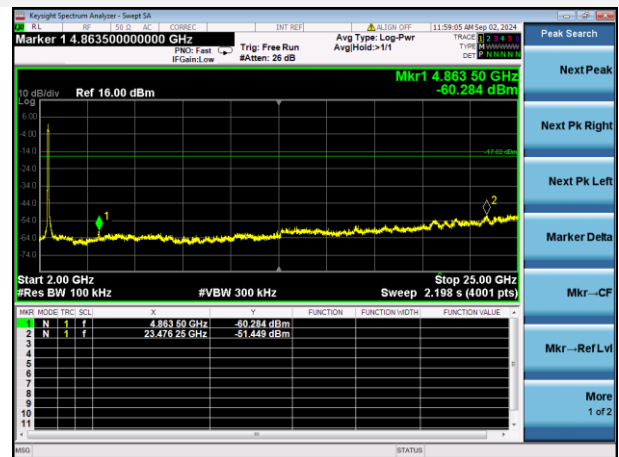
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



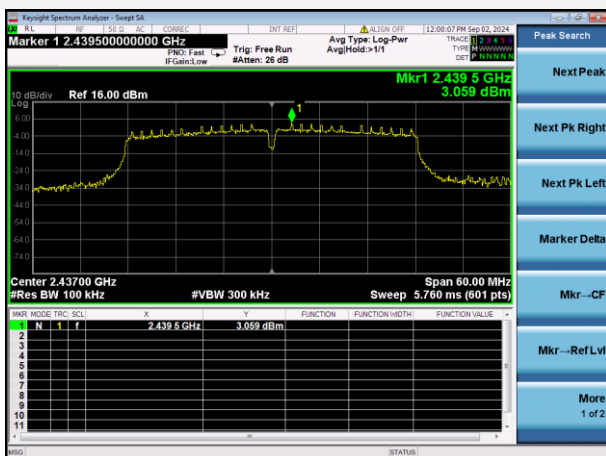
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



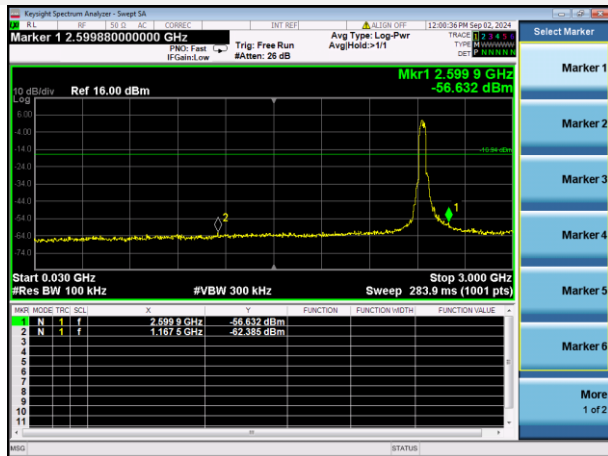
802.11n-40 MHz LOW CHANNEL CARRIER LEVEL

802.11n-40 MHz LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz802.11n-40 MHz LOW CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

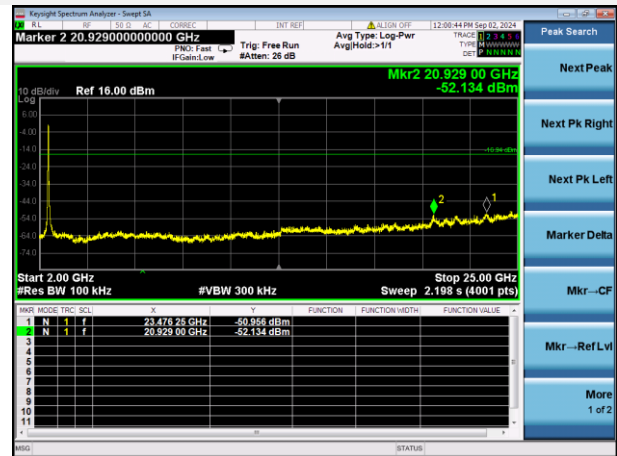
802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL



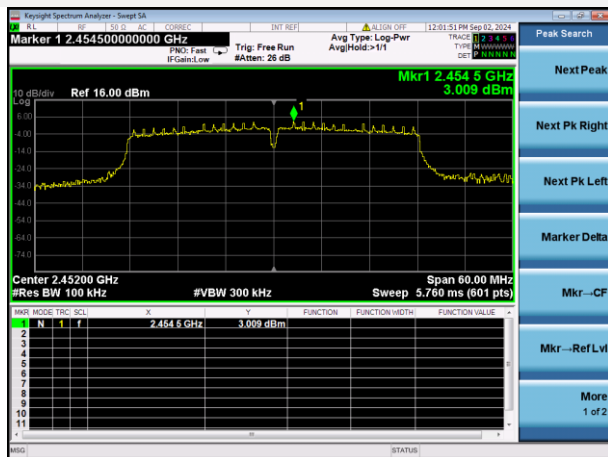
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



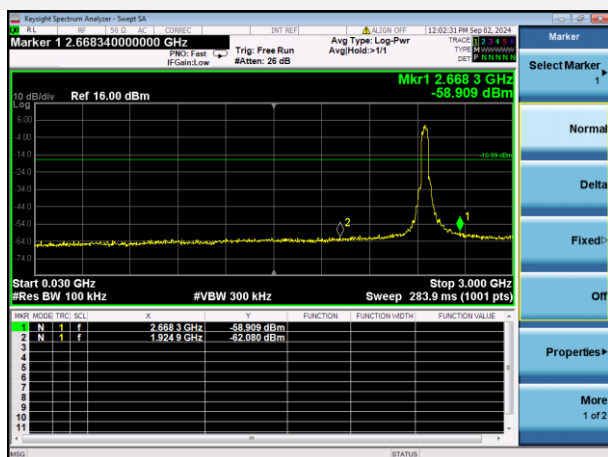
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



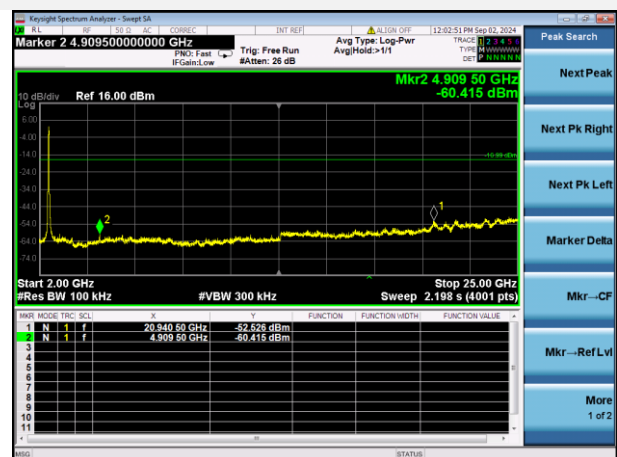
802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



802.11n-40 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



A.4 Band Edge (Authorized-band band-edge)

Note 1: The 99% OBW of the fundamental emission is without 2 MHz of the authorized band.

Note 2: All the configurations were pre tested, only the worst configuration has been reported in this report.

Test Data

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-38.04	10.30	-9.70	Pass
High Channel	-48.86	10.78	-9.22	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-21.82	8.39	-11.61	Pass
High Channel	-32.34	8.70	-11.30	Pass

802.11n-20 MHz Mode:

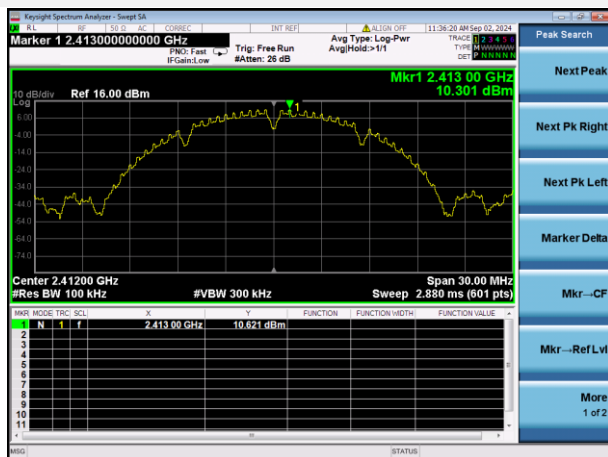
Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-25.63	6.79	-13.21	Pass
High Channel	-35.04	6.49	-13.52	Pass

802.11n-40 MHz Mode:

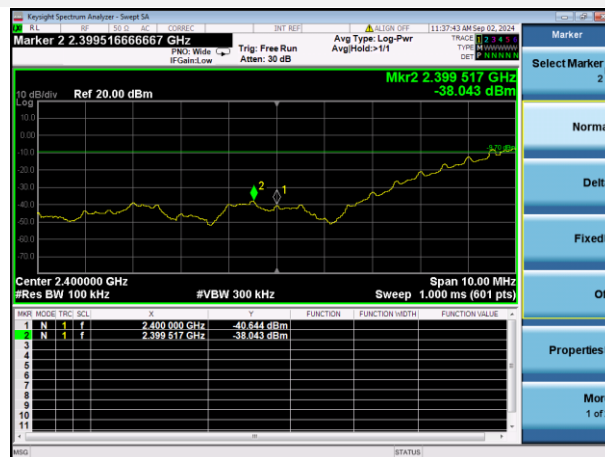
Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-31.48	2.98	-17.02	Pass
High Channel	-29.63	3.01	-16.99	Pass

Test Plots

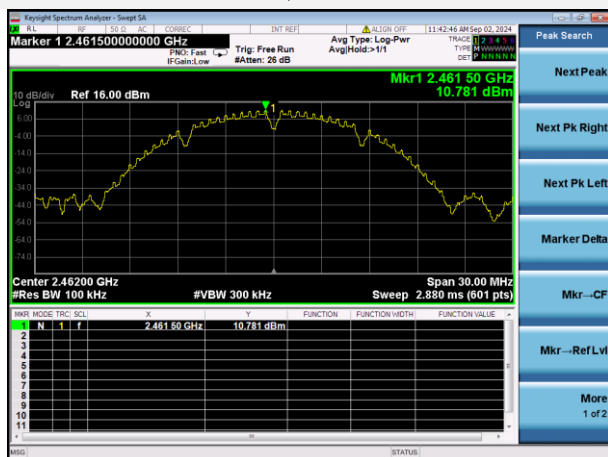
802.11b LOW CHANNEL, CARRIER LEVEL



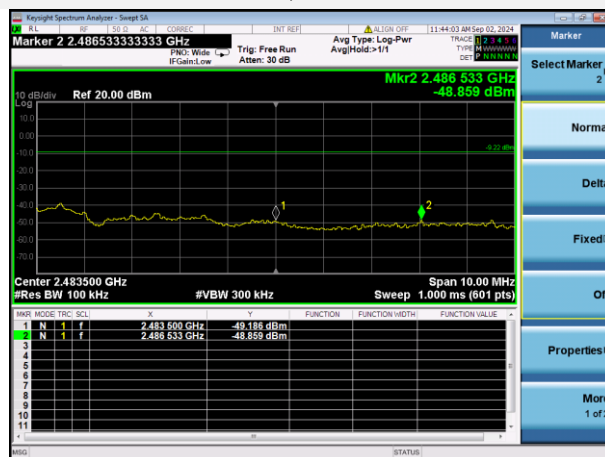
802.11b LOW CHANNEL, BAND EDGE



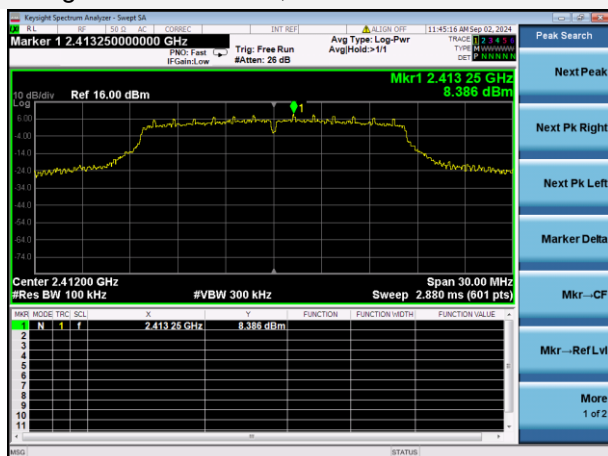
802.11b HIGH CHANNEL, CARRIER LEVEL



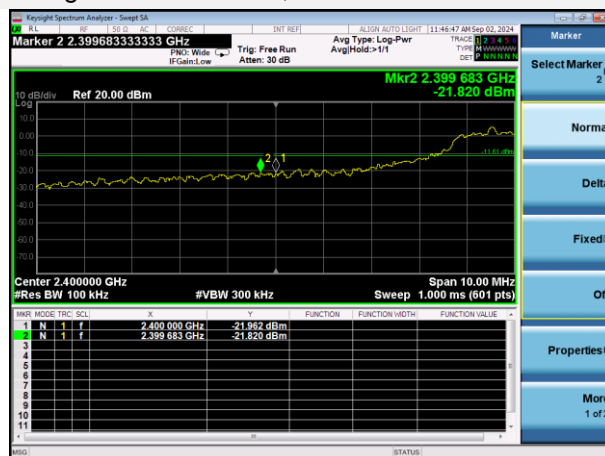
802.11b HIGH CHANNEL, BAND EDGE



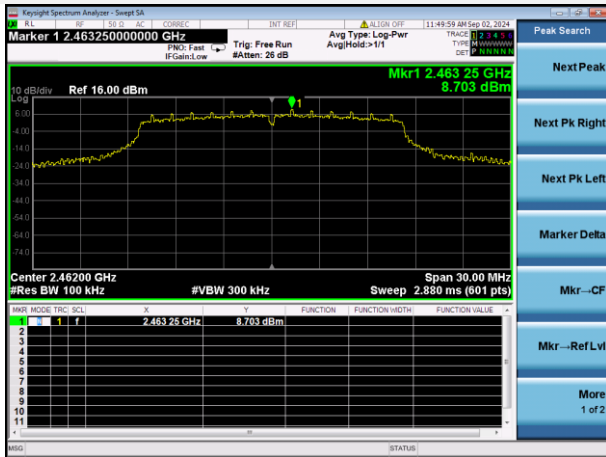
802.11g LOW CHANNEL, CARRIER LEVEL



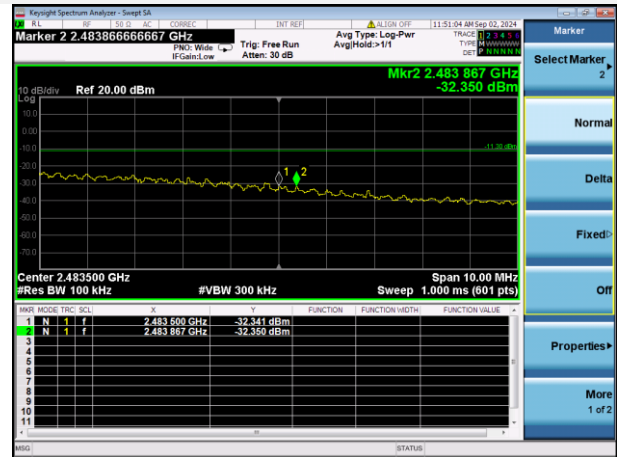
802.11g LOW CHANNEL, BAND EDGE



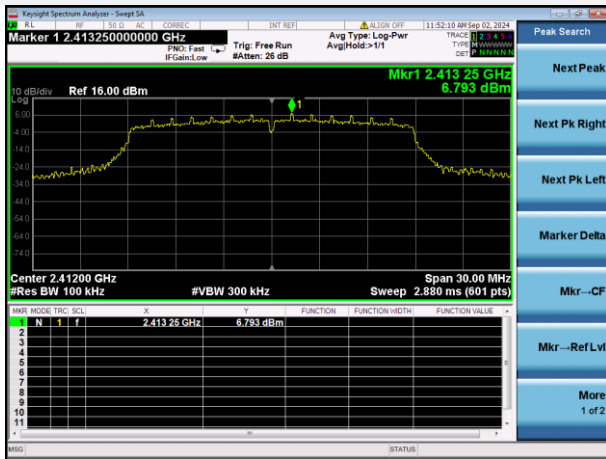
802.11g HIGH CHANNEL, CARRIER LEVEL



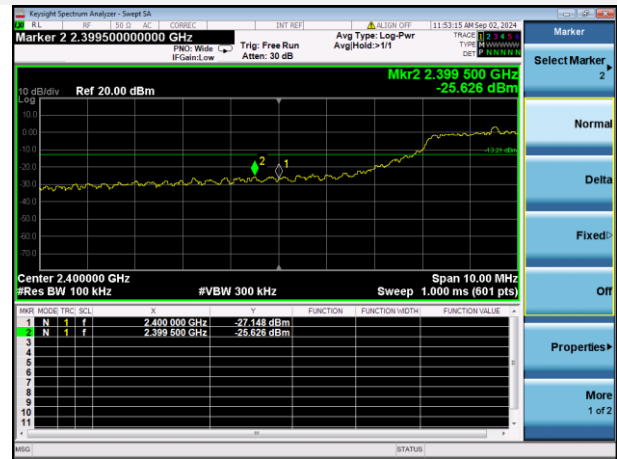
802.11g HIGH CHANNEL, BAND EDGE



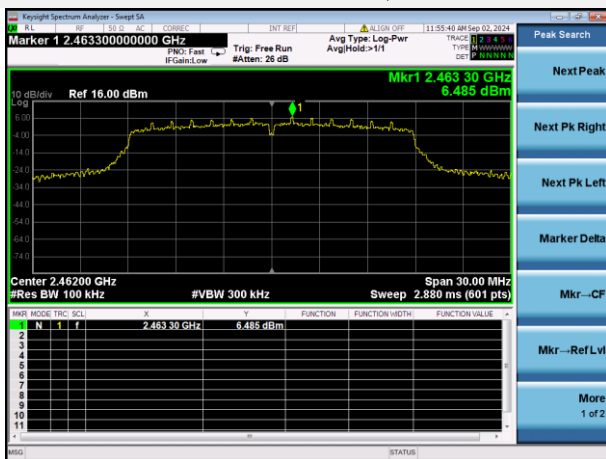
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



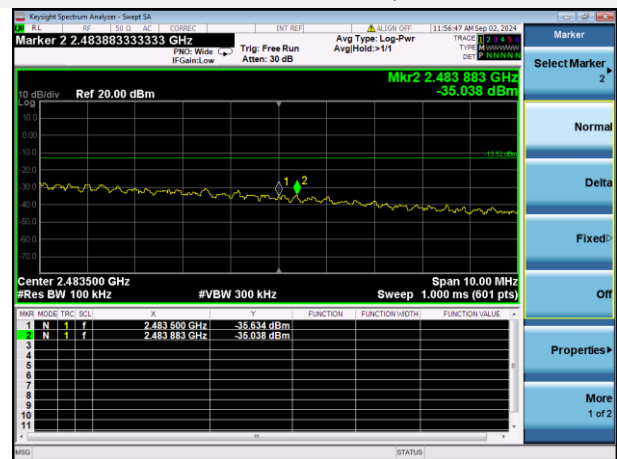
802.11n-20 MHz LOW CHANNEL, BAND EDGE



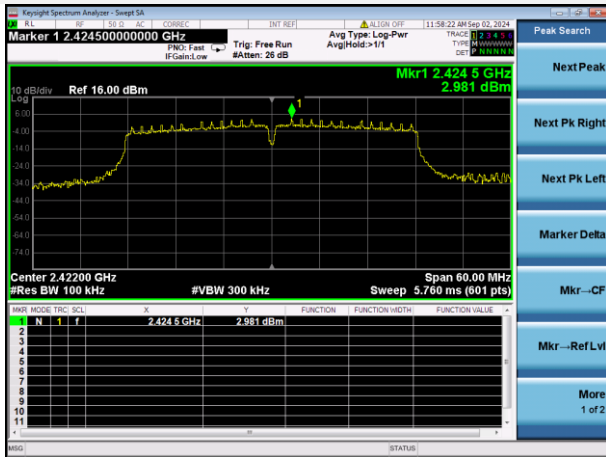
802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



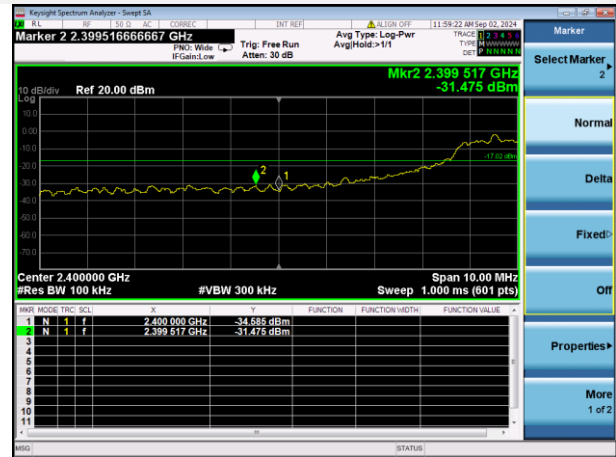
802.11n-20 MHz HIGH CHANNEL, BAND EDGE



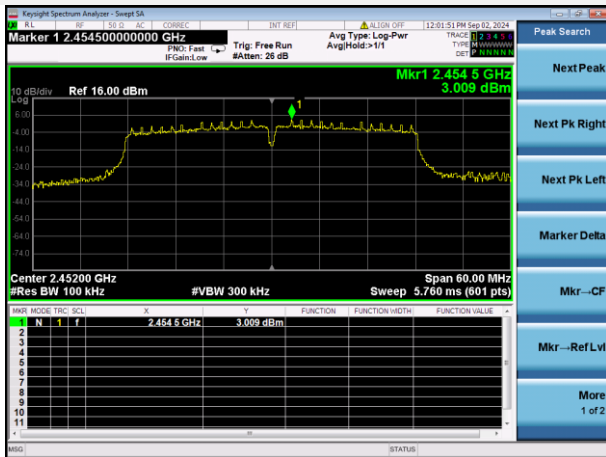
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



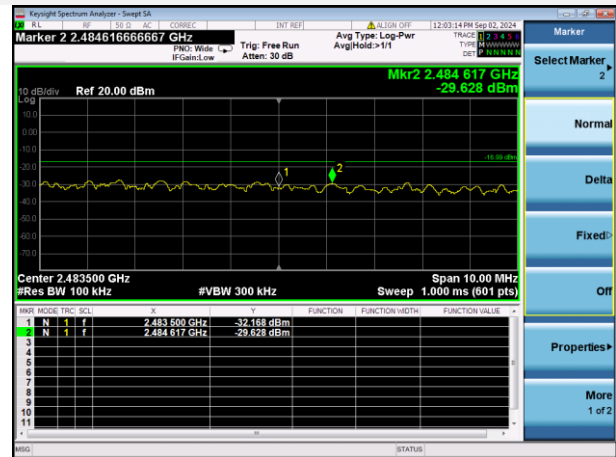
802.11n-40 MHz LOW CHANNEL, BAND EDGE



802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, BAND EDGE



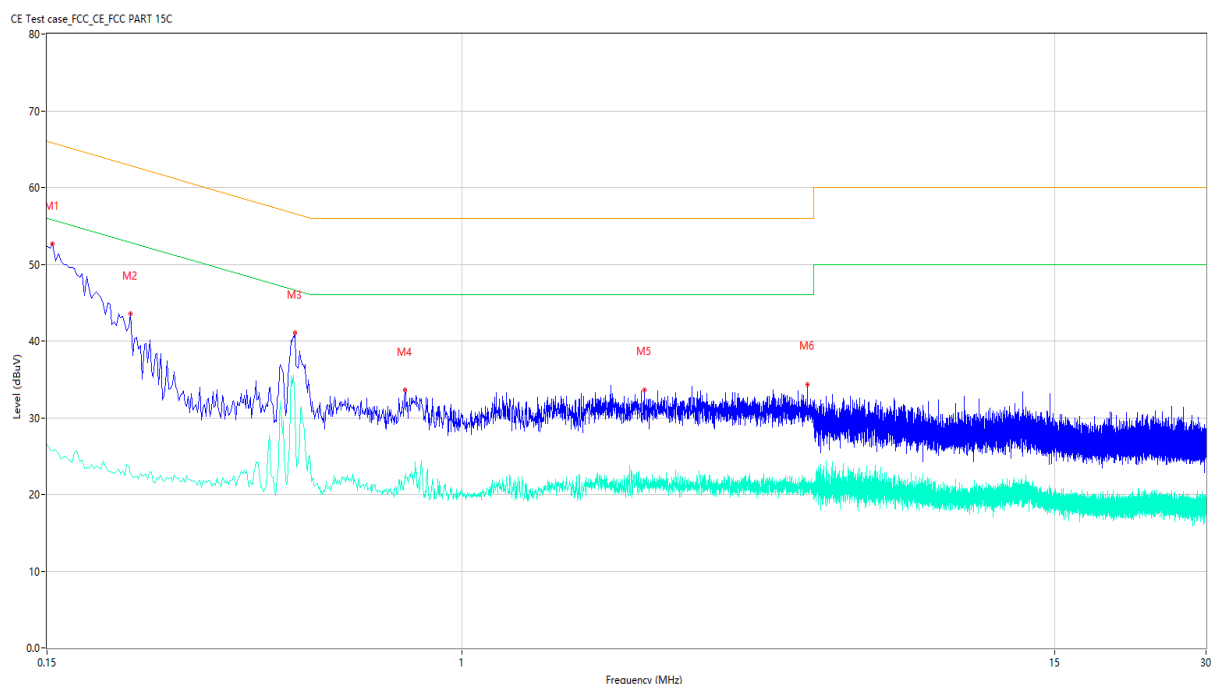
A.5 Conducted Emissions

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.

Test Data and Plots

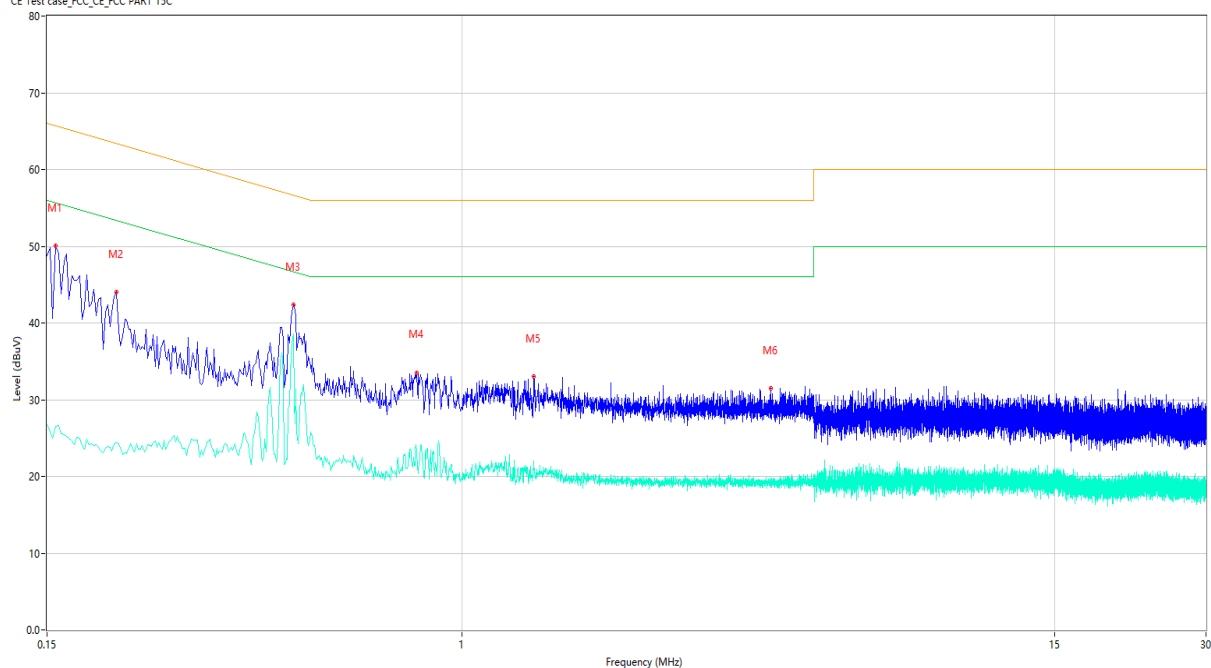
PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.154	52.62	9.75	65.78	13.16	Peak	L	Pass
1**	0.154	25.70	9.75	55.78	30.08	AV	L	Pass
2	0.220	43.54	9.74	62.82	19.28	Peak	L	Pass
2**	0.220	22.70	9.74	52.82	30.12	AV	L	Pass
3	0.466	41.03	9.74	56.58	15.55	Peak	L	Pass
3**	0.466	30.96	9.74	46.58	15.62	AV	L	Pass
4	0.770	33.56	9.72	56.00	22.44	Peak	L	Pass
4**	0.770	22.15	9.72	46.00	23.85	AV	L	Pass
5	2.300	33.65	9.68	56.00	22.35	Peak	L	Pass
5**	2.300	21.86	9.68	46.00	24.14	AV	L	Pass
6	4.850	34.36	9.64	56.00	21.64	Peak	L	Pass
6**	4.850	21.43	9.64	46.00	24.57	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	0.156	50.09	9.75	65.67	15.58	Peak	N	Pass
1**	0.156	26.46	9.75	55.67	29.21	AV	N	Pass
2	0.206	44.00	9.75	63.37	19.37	Peak	N	Pass
2**	0.206	24.40	9.75	53.37	28.97	AV	N	Pass
3	0.462	42.33	9.74	56.66	14.33	Peak	N	Pass
3**	0.462	38.52	9.74	46.66	8.14	AV	N	Pass
4	0.814	33.55	9.71	56.00	22.45	Peak	N	Pass
4**	0.814	23.15	9.71	46.00	22.85	AV	N	Pass
5	1.386	33.04	9.70	56.00	22.96	Peak	N	Pass
5**	1.386	22.05	9.70	46.00	23.95	AV	N	Pass
6	4.096	31.46	9.66	56.00	24.54	Peak	N	Pass
6**	4.096	19.70	9.66	46.00	26.30	AV	N	Pass

A.6 Radiated Emission

Note ¹: The symbol of “--” in the table which means not application.

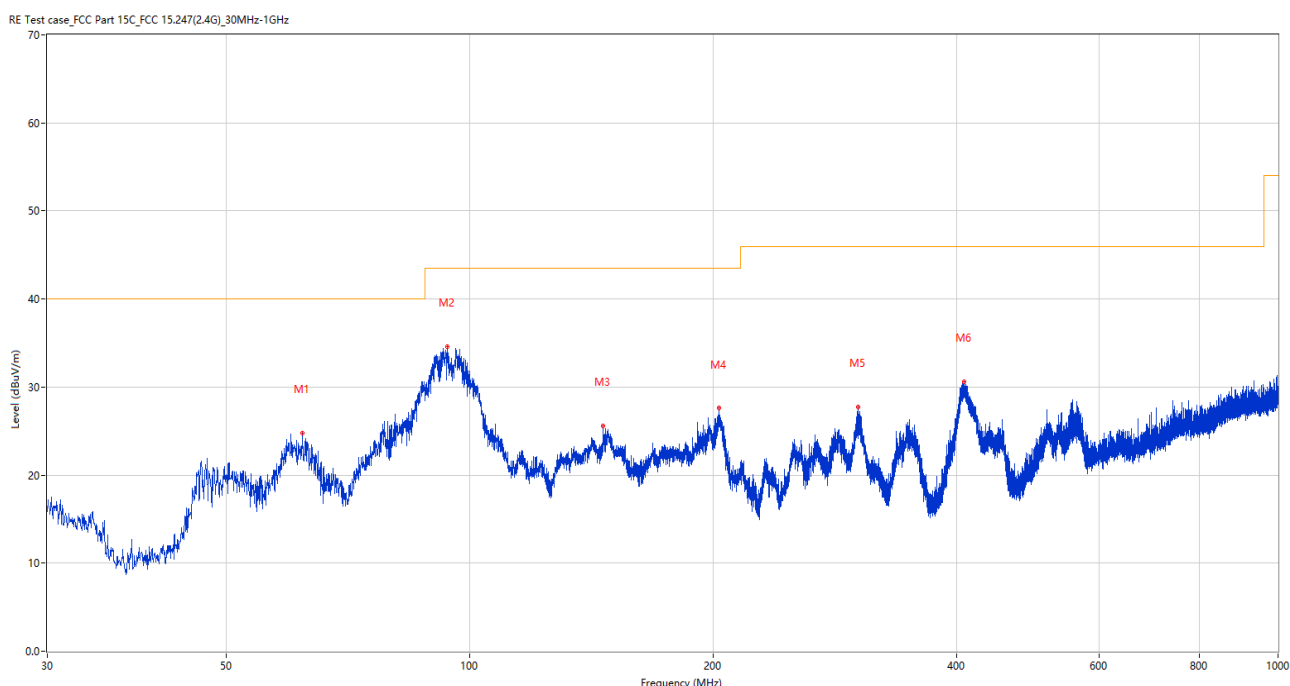
Note ²: For the test data above 1 GHz, According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note ³: The 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.

Note ⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

Test Data and Plots

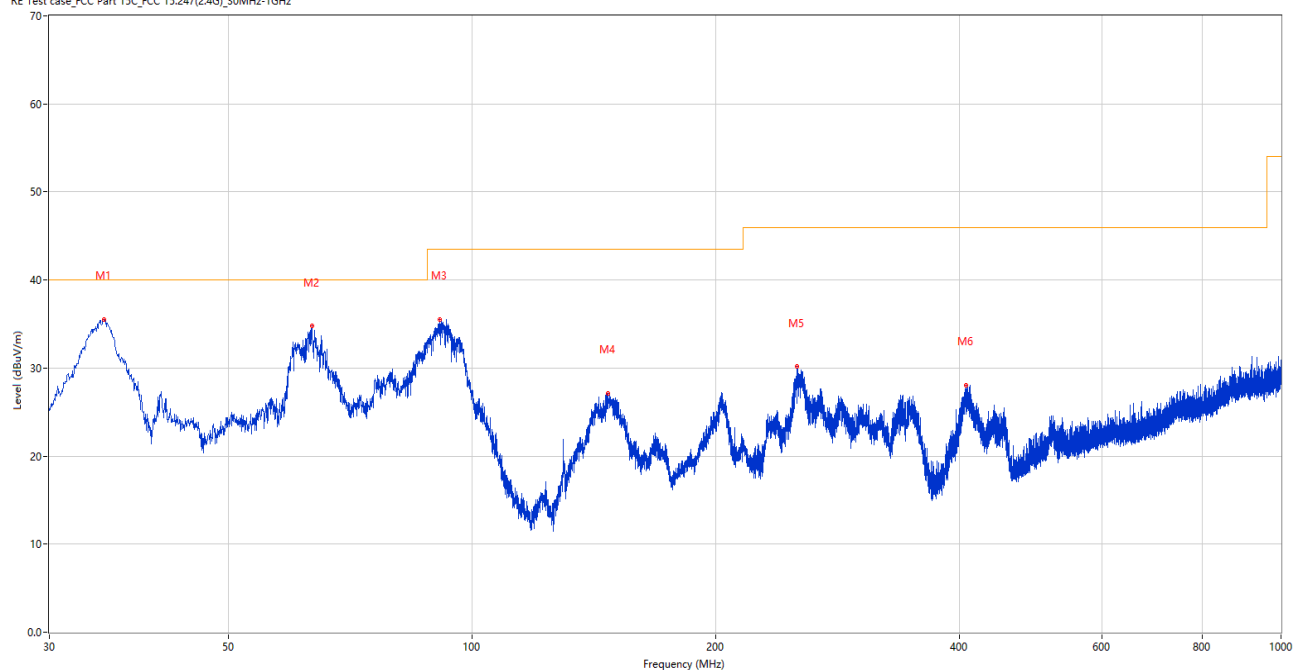
30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	62.059	24.80	-26.52	40.0	15.20	Peak	51.00	200	Horizontal	Pass
2	93.680	34.57	-27.03	43.5	8.93	Peak	86.00	200	Horizontal	Pass
3	146.303	25.59	-29.57	43.5	17.91	Peak	235.00	100	Horizontal	Pass
4	203.242	27.59	-26.22	43.5	15.91	Peak	87.00	100	Horizontal	Pass
5	302.037	27.76	-23.25	46.0	18.24	Peak	288.00	200	Horizontal	Pass
6	409.027	30.60	-20.17	46.0	15.40	Peak	12.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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



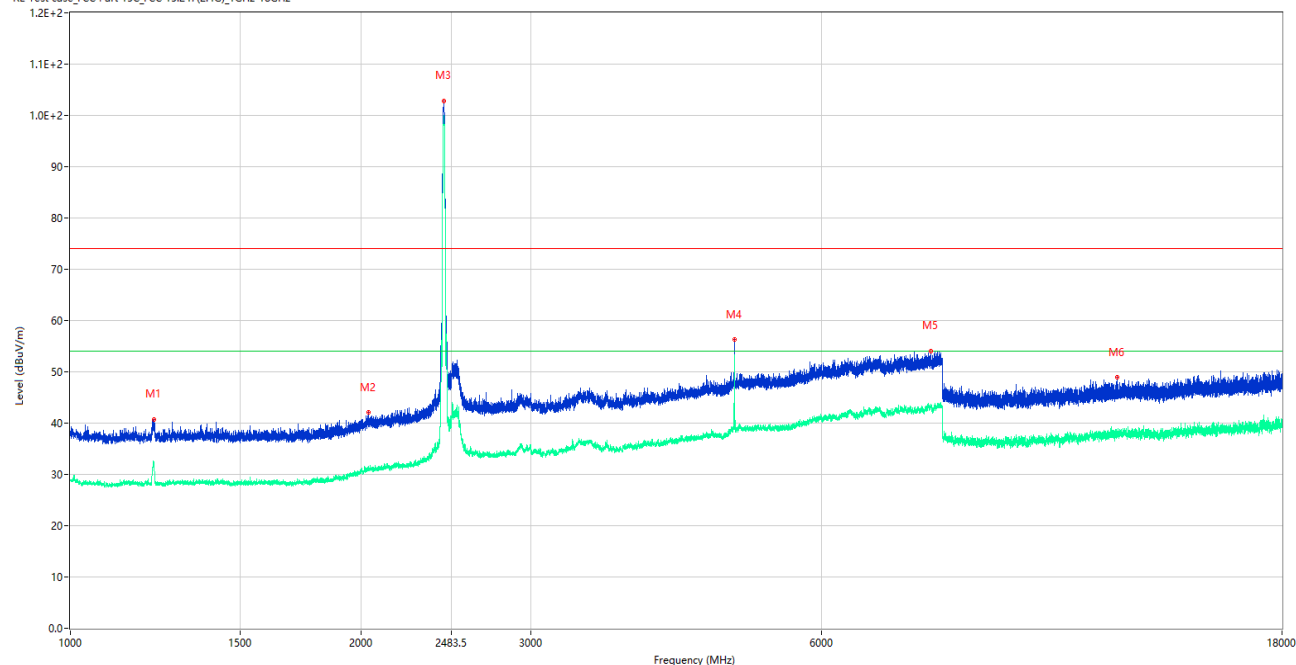
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	35.044	35.53	-27.73	40.0	4.47	Peak	338.00	100	Vertical	Pass
2	63.319	34.75	-26.85	40.0	5.25	Peak	132.00	100	Vertical	Pass
3	91.207	35.54	-27.70	43.5	7.96	Peak	156.00	100	Vertical	Pass
4	147.273	27.10	-29.58	43.5	16.40	Peak	124.00	200	Vertical	Pass
5	252.227	30.14	-24.01	46.0	15.86	Peak	108.00	100	Vertical	Pass
6	408.251	28.05	-20.23	46.0	17.95	Peak	203.00	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 above 18G is noise only, do not show on the report.

1 GHz to 18 GHz, ANT H 802.11b Middle Channel

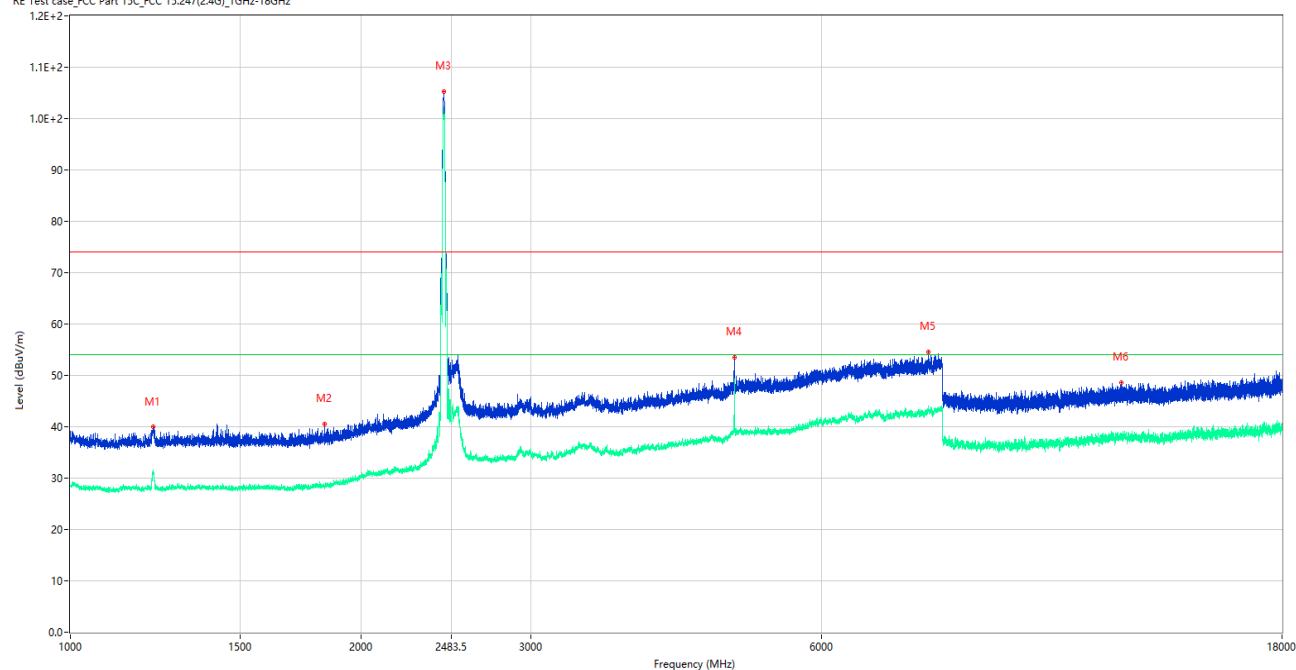
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1222.000	40.77	-16.00	74.0	33.23	Peak	158.00	150	Horizontal	Pass
1**	1222.000	30.82	-16.00	54.0	23.18	AV	158.00	150	Horizontal	Pass
2	2035.750	42.07	-13.35	74.0	31.93	Peak	341.00	150	Horizontal	Pass
2**	2035.750	31.29	-13.35	54.0	22.71	AV	341.00	150	Horizontal	Pass
3	2438.250	102.88	-12.38	74.0	-28.88	Peak	218.00	150	Horizontal	N/A
3**	2438.250	100.01	-12.38	54.0	-46.01	AV	218.00	150	Horizontal	N/A
4	4873.500	56.30	-2.23	74.0	17.70	Peak	75.00	150	Horizontal	Pass
4**	4873.500	45.12	-2.23	54.0	8.88	AV	75.00	150	Horizontal	Pass
5	7785.000	53.96	1.54	74.0	20.04	Peak	0.00	150	Horizontal	Pass
5**	7785.000	43.18	1.54	54.0	10.82	AV	0.00	150	Horizontal	Pass
6	12154.000	48.93	-3.01	74.0	25.07	Peak	360.00	150	Horizontal	Pass
6**	12154.000	37.55	-3.01	54.0	16.45	AV	360.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Middle Channel

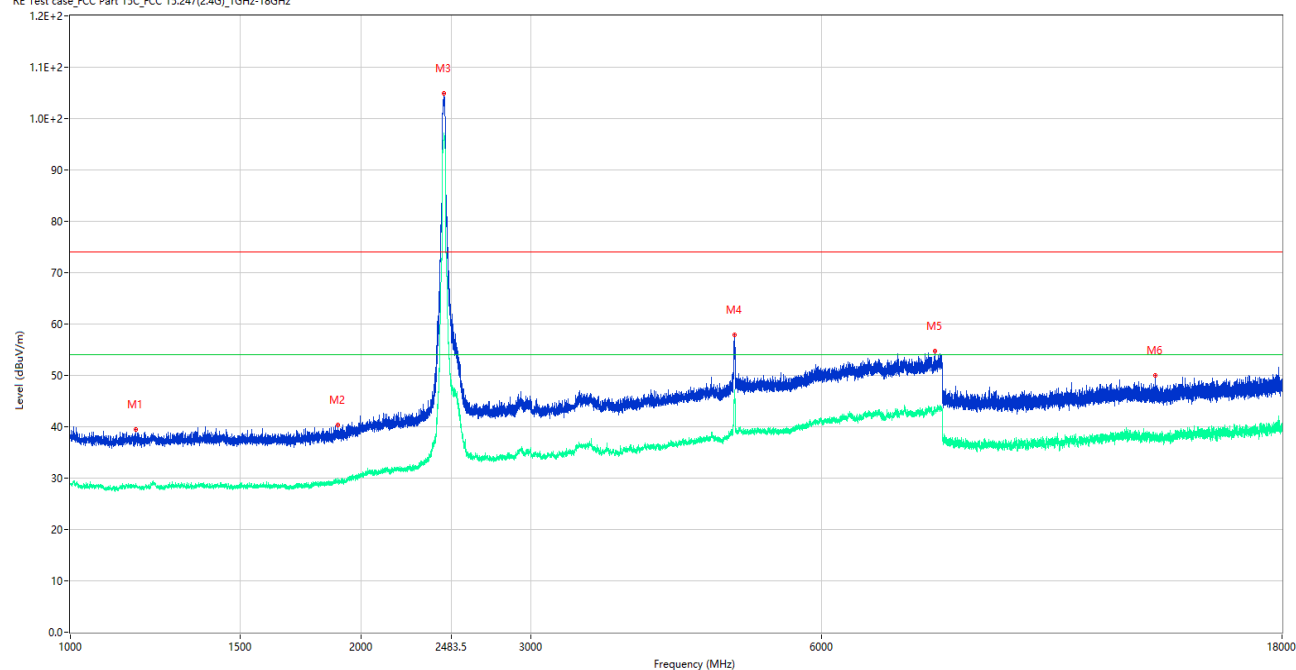
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1218.000	39.94	-15.96	74.0	34.06	Peak	335.00	150	Vertical	Pass
1**	1218.000	31.35	-15.96	54.0	22.65	AV	335.00	150	Vertical	Pass
2	1833.500	40.55	-16.03	74.0	33.45	Peak	207.00	150	Vertical	Pass
2**	1833.500	28.44	-16.03	54.0	25.56	AV	207.00	150	Vertical	Pass
3	2438.250	105.33	-12.38	74.0	-31.33	Peak	141.00	150	Vertical	N/A
3**	2438.250	102.13	-12.38	54.0	-48.13	AV	141.00	150	Vertical	N/A
4	4874.000	53.56	-2.23	74.0	20.44	Peak	360.00	150	Vertical	Pass
4**	4874.000	47.35	-2.23	54.0	6.65	AV	360.00	150	Vertical	Pass
5	7737.500	54.57	1.29	74.0	19.43	Peak	304.00	150	Vertical	Pass
5**	7737.500	43.47	1.29	54.0	10.53	AV	304.00	150	Vertical	Pass
6	12261.500	48.62	-2.55	74.0	25.38	Peak	327.00	150	Vertical	Pass
6**	12261.500	38.20	-2.55	54.0	15.80	AV	327.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Middle Channel

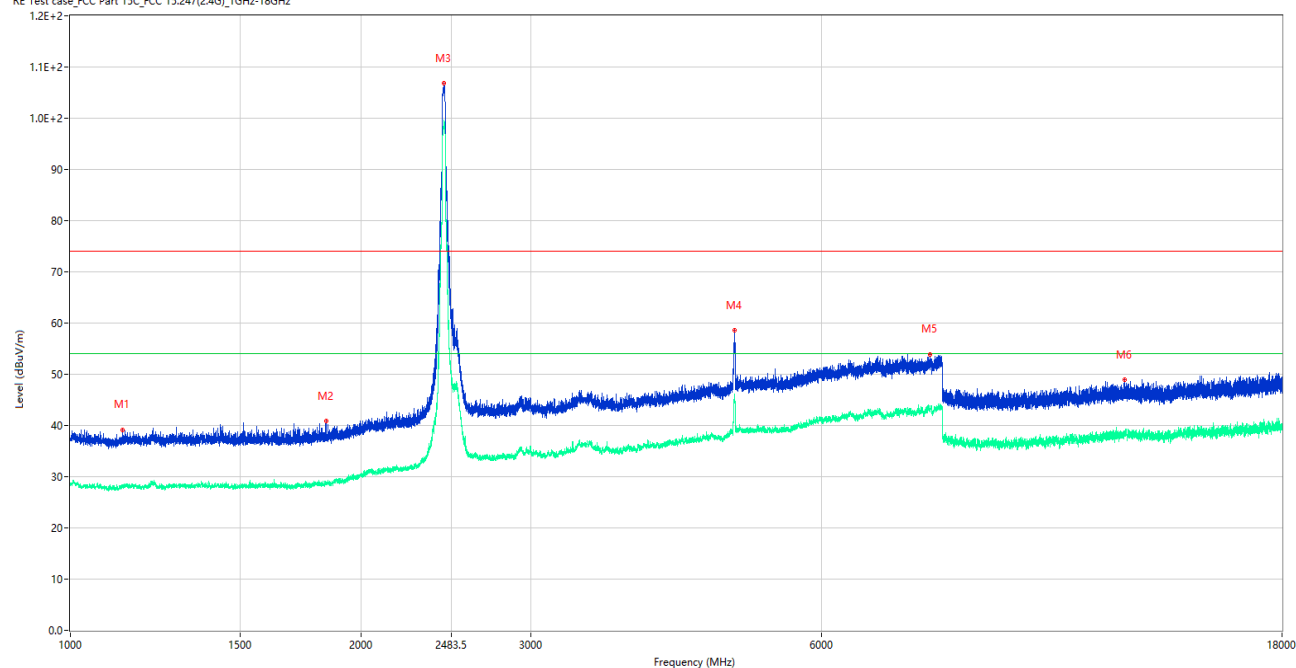
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1168.750	39.49	-15.50	74.0	34.51	Peak	262.00	150	Horizontal	Pass
1**	1168.750	28.47	-15.50	54.0	25.53	AV	262.00	150	Horizontal	Pass
2	1893.000	40.31	-15.41	74.0	33.69	Peak	238.00	150	Horizontal	Pass
2**	1893.000	30.06	-15.41	54.0	23.94	AV	238.00	150	Horizontal	Pass
3	2438.250	104.89	-12.38	74.0	-30.89	Peak	207.00	150	Horizontal	N/A
3**	2438.250	97.13	-12.38	54.0	-43.13	AV	207.00	150	Horizontal	N/A
4	4874.000	57.86	-2.23	74.0	16.14	Peak	19.00	150	Horizontal	Pass
4**	4874.000	45.39	-2.23	54.0	8.61	AV	19.00	150	Horizontal	Pass
5	7863.000	54.74	1.71	74.0	19.26	Peak	3.00	150	Horizontal	Pass
5**	7863.000	43.20	1.71	54.0	10.80	AV	3.00	150	Horizontal	Pass
6	13317.500	49.92	-2.97	74.0	24.08	Peak	125.00	150	Horizontal	Pass
6**	13317.500	37.69	-2.97	54.0	16.31	AV	125.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Middle Channel

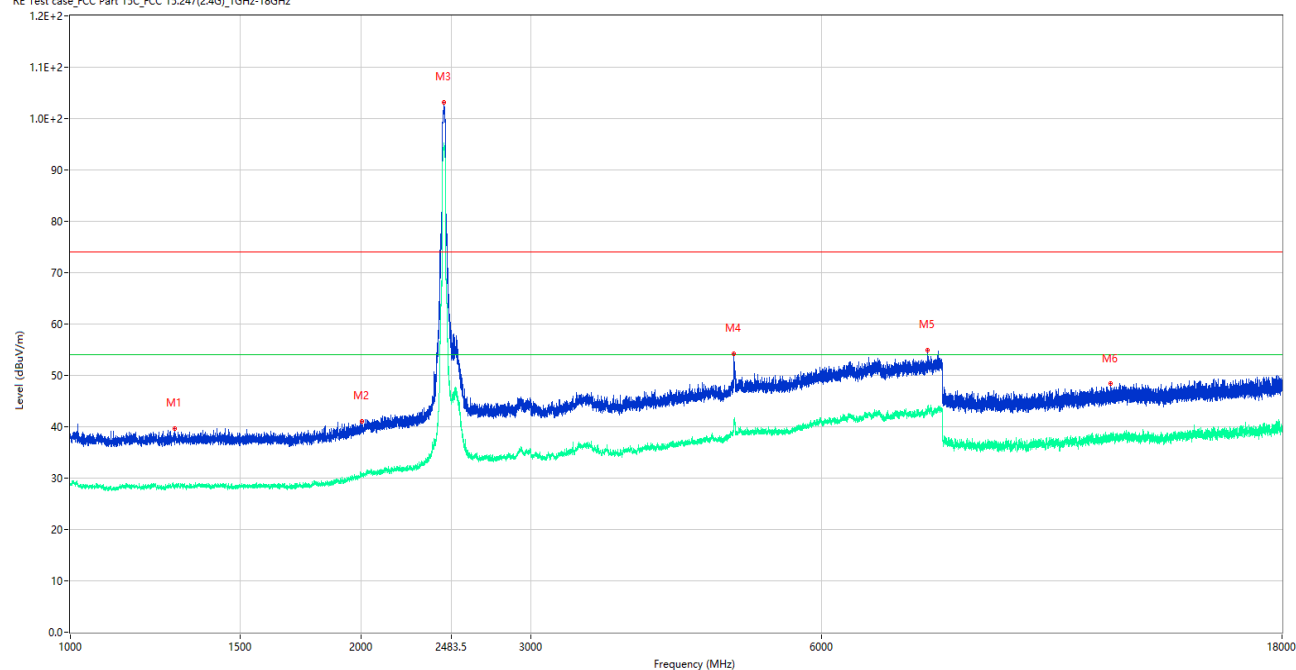
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1131.750	39.09	-15.53	74.0	34.91	Peak	360.00	150	Vertical	Pass
1**	1131.750	27.94	-15.53	54.0	26.06	AV	360.00	150	Vertical	Pass
2	1840.750	40.84	-15.89	74.0	33.16	Peak	204.00	150	Vertical	Pass
2**	1840.750	28.51	-15.89	54.0	25.49	AV	204.00	150	Vertical	Pass
3	2439.750	106.77	-12.37	74.0	-32.77	Peak	218.00	150	Vertical	N/A
3**	2439.750	99.38	-12.37	54.0	-45.38	AV	218.00	150	Vertical	N/A
4	4874.000	58.58	-2.23	74.0	15.42	Peak	0.00	150	Vertical	Pass
4**	4874.000	45.66	-2.23	54.0	8.34	AV	0.00	150	Vertical	Pass
5	7773.500	53.80	1.15	74.0	20.20	Peak	0.00	150	Vertical	Pass
5**	7773.500	43.04	1.15	54.0	10.96	AV	0.00	150	Vertical	Pass
6	12374.500	48.93	-2.17	74.0	25.07	Peak	235.00	150	Vertical	Pass
6**	12374.500	38.73	-2.17	54.0	15.27	AV	235.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Middle Channel

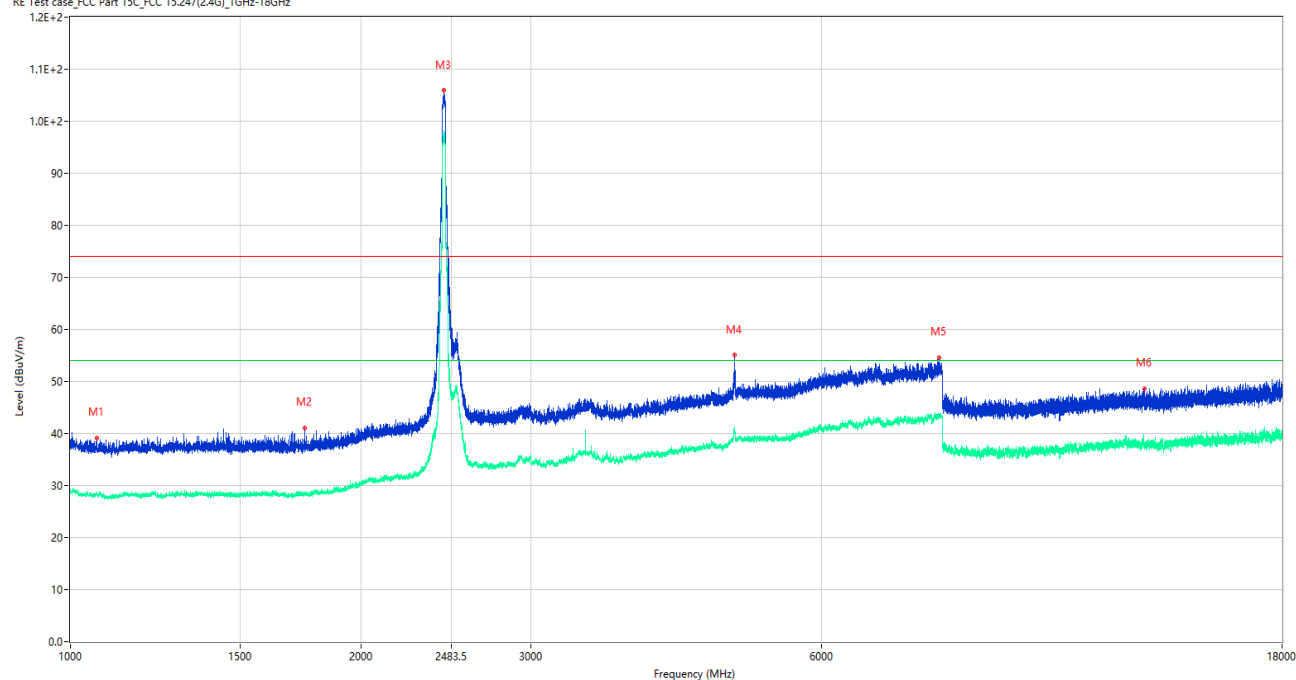
RE Test case_FCC Part 15C FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1281.500	39.66	-15.91	74.0	34.34	Peak	315.00	150	Horizontal	Pass
1**	1281.500	28.09	-15.91	54.0	25.91	AV	315.00	150	Horizontal	Pass
2	2004.250	41.11	-14.20	74.0	32.89	Peak	307.00	150	Horizontal	Pass
2**	2004.250	30.62	-14.20	54.0	23.38	AV	307.00	150	Horizontal	Pass
3	2439.750	103.17	-12.37	74.0	-29.17	Peak	187.00	150	Horizontal	N/A
3**	2439.750	94.92	-12.37	54.0	-40.92	AV	187.00	150	Horizontal	N/A
4	4870.000	54.26	-2.15	74.0	19.74	Peak	64.00	150	Horizontal	Pass
4**	4870.000	40.13	-2.15	54.0	13.87	AV	64.00	150	Horizontal	Pass
5	7734.500	54.93	1.16	74.0	19.07	Peak	311.00	150	Horizontal	Pass
5**	7734.500	43.41	1.16	54.0	10.59	AV	311.00	150	Horizontal	Pass
6	11955.000	48.37	-3.34	74.0	25.63	Peak	153.00	150	Horizontal	Pass
6**	11955.000	37.65	-3.34	54.0	16.35	AV	153.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Middle Channel

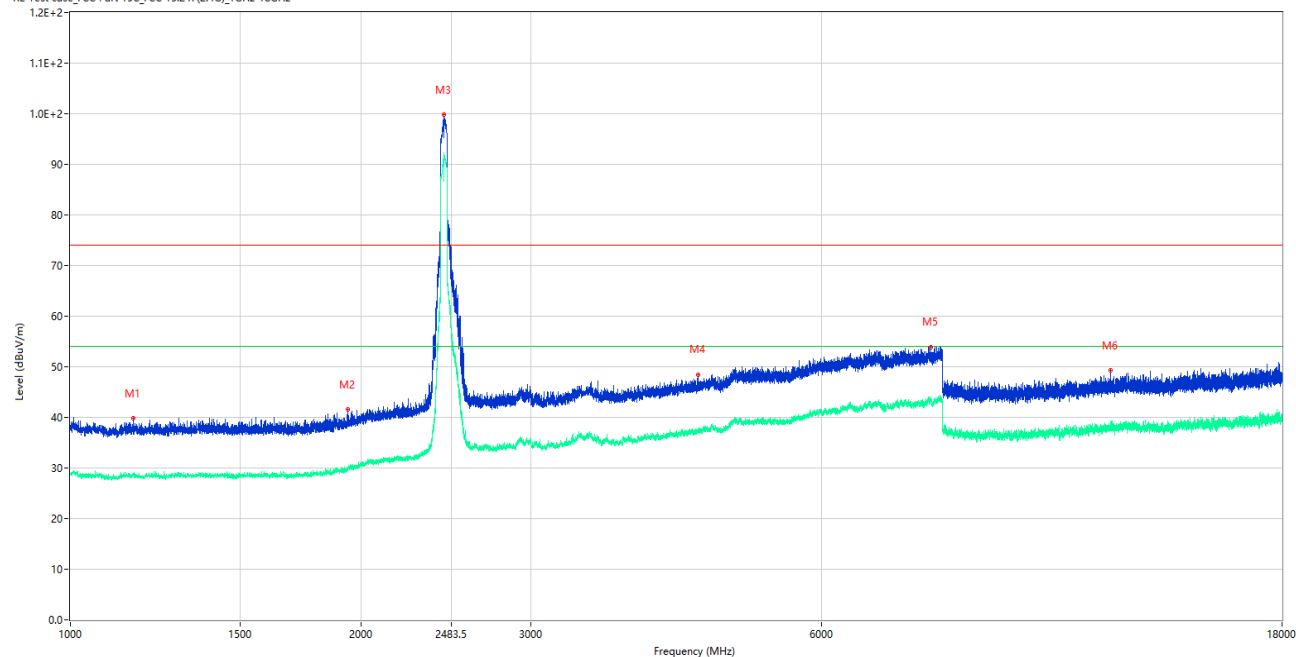
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1065.500	39.15	-15.16	74.0	34.85	Peak	292.00	150	Vertical	Pass
1**	1065.500	28.17	-15.16	54.0	25.83	AV	292.00	150	Vertical	Pass
2	1748.750	41.10	-16.02	74.0	32.90	Peak	205.00	150	Vertical	Pass
2**	1748.750	28.26	-16.02	54.0	25.74	AV	205.00	150	Vertical	Pass
3	2438.750	105.91	-12.37	74.0	-31.91	Peak	145.00	150	Vertical	N/A
3**	2438.750	97.78	-12.37	54.0	-43.78	AV	145.00	150	Vertical	N/A
4	4877.500	55.04	-2.25	74.0	18.96	Peak	0.00	150	Vertical	Pass
4**	4877.500	40.31	-2.25	54.0	13.69	AV	0.00	150	Vertical	Pass
5	7947.000	54.58	1.99	74.0	19.42	Peak	0.00	150	Vertical	Pass
5**	7947.000	43.32	1.99	54.0	10.68	AV	0.00	150	Vertical	Pass
6	12964.500	48.58	-2.39	74.0	25.42	Peak	292.00	150	Vertical	Pass
6**	12964.500	37.49	-2.39	54.0	16.51	AV	292.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Middle Channel

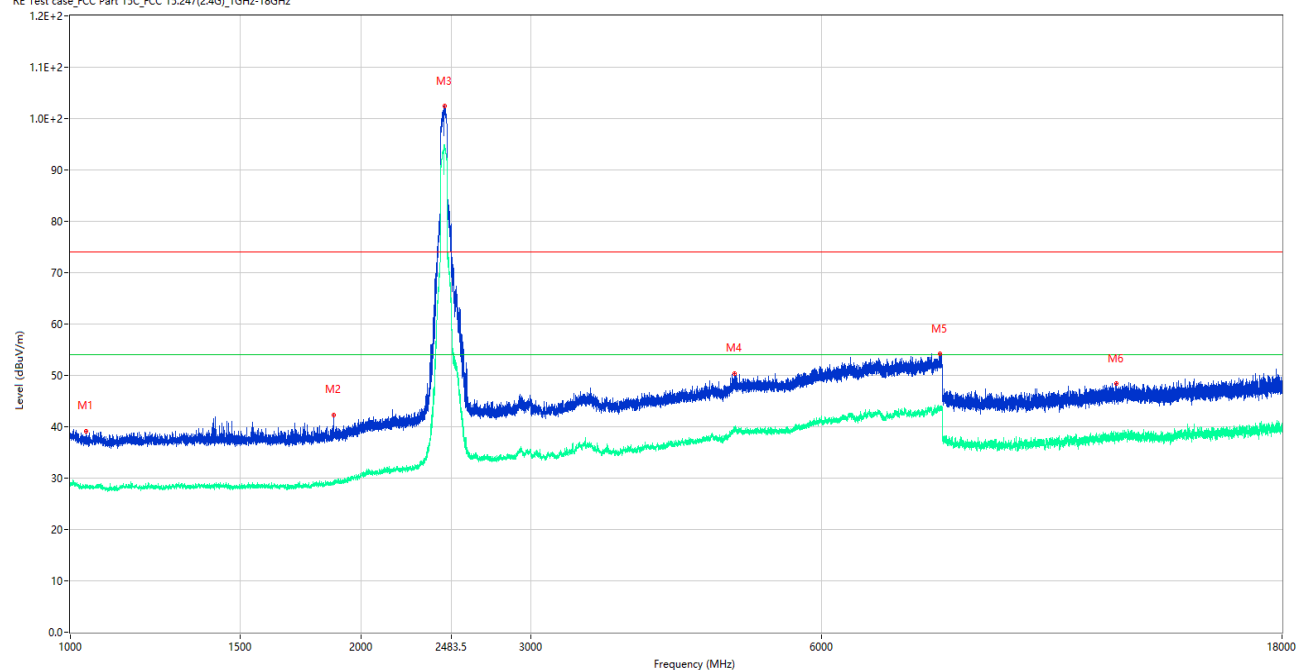
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1161.000	39.80	-15.47	74.0	34.20	Peak	343.00	150	Horizontal	Pass
1**	1161.000	28.49	-15.47	54.0	25.51	AV	343.00	150	Horizontal	Pass
2	1937.500	41.52	-15.13	74.0	32.48	Peak	209.00	150	Horizontal	Pass
2**	1937.500	29.75	-15.13	54.0	24.25	AV	209.00	150	Horizontal	Pass
3	2439.500	99.82	-12.37	74.0	-25.82	Peak	218.00	150	Horizontal	N/A
3**	2439.500	92.30	-12.37	54.0	-38.30	AV	218.00	150	Horizontal	N/A
4	4469.500	48.40	-3.70	74.0	25.60	Peak	360.00	150	Horizontal	Pass
4**	4469.500	37.27	-3.70	54.0	16.73	AV	360.00	150	Horizontal	Pass
5	7793.500	53.92	1.68	74.0	20.08	Peak	360.00	150	Horizontal	Pass
5**	7793.500	43.48	1.68	54.0	10.52	AV	360.00	150	Horizontal	Pass
6	11951.000	49.25	-3.43	74.0	24.75	Peak	0.00	150	Horizontal	Pass
6**	11951.000	37.59	-3.43	54.0	16.41	AV	0.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Middle Channel

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	1038.750	39.18	-15.40	74.0	34.82	Peak	284.00	150	Vertical	Pass
1**	1038.750	28.21	-15.40	54.0	25.79	AV	284.00	150	Vertical	Pass
2	1874.750	42.33	-15.51	74.0	31.67	Peak	204.00	150	Vertical	Pass
2**	1874.750	29.45	-15.51	54.0	24.55	AV	204.00	150	Vertical	Pass
3	2440.250	102.43	-12.37	74.0	-28.43	Peak	145.00	150	Vertical	N/A
3**	2440.250	94.94	-12.37	54.0	-40.94	AV	145.00	150	Vertical	N/A
4	4875.000	50.37	-2.26	74.0	23.63	Peak	0.00	150	Vertical	Pass
4**	4875.000	39.21	-2.26	54.0	14.79	AV	0.00	150	Vertical	Pass
5	7954.500	54.19	2.23	74.0	19.81	Peak	317.00	150	Vertical	Pass
5**	7954.500	43.38	2.23	54.0	10.62	AV	317.00	150	Vertical	Pass
6	12123.000	48.38	-2.92	74.0	25.62	Peak	1.00	150	Vertical	Pass
6**	12123.000	37.46	-2.92	54.0	16.54	AV	1.00	150	Vertical	Pass

A.7 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.

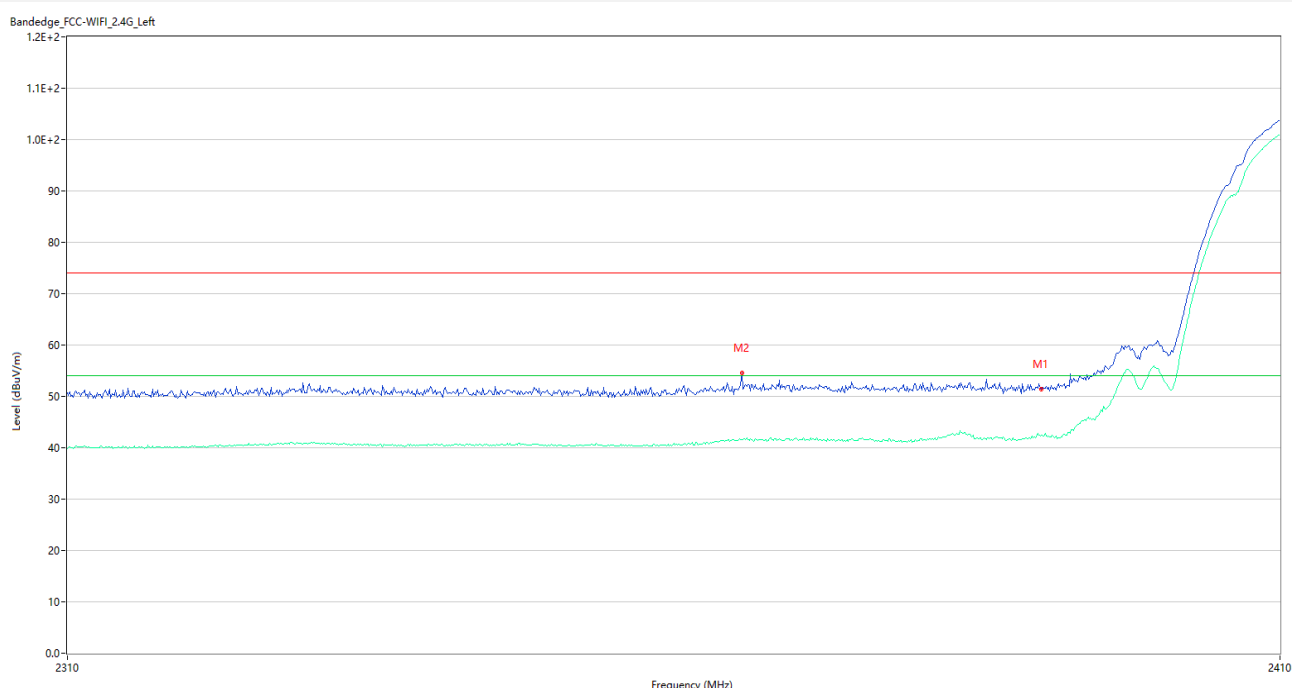
Note ²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

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: All the configurations were pre tested, only the worst configuration has been reported in this report.

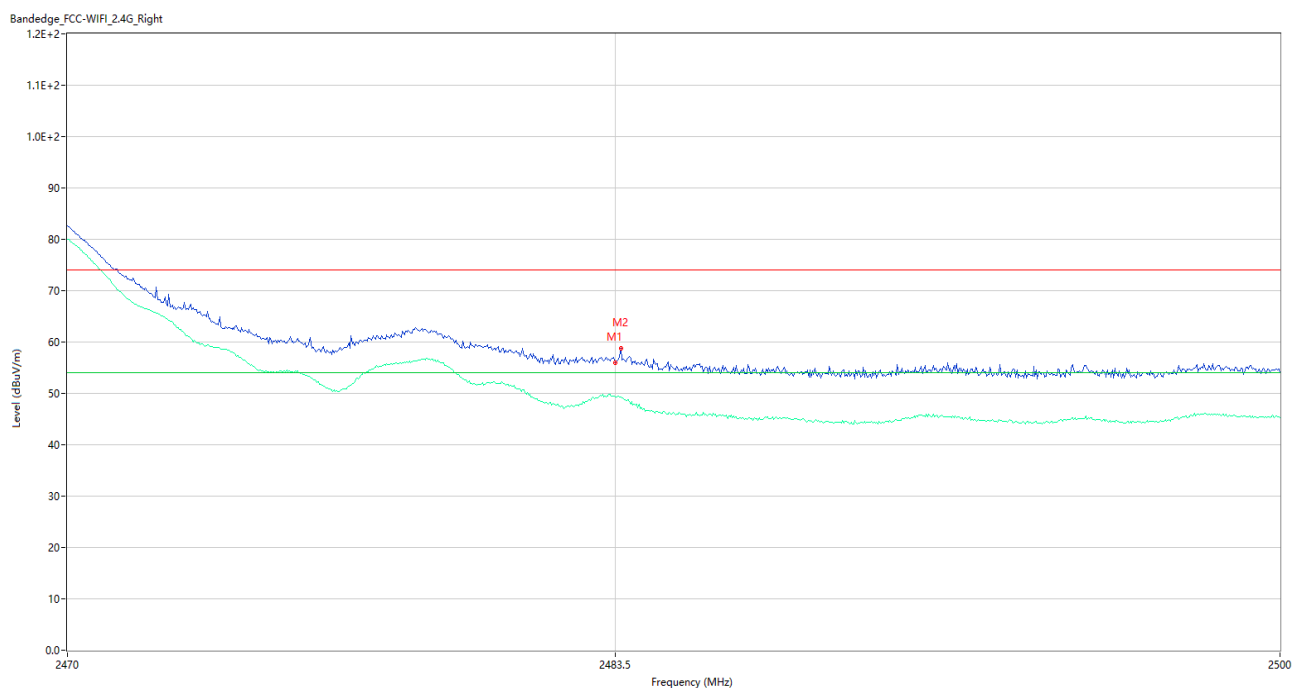
Test Data and Plots

802.11b LOW CHANNEL



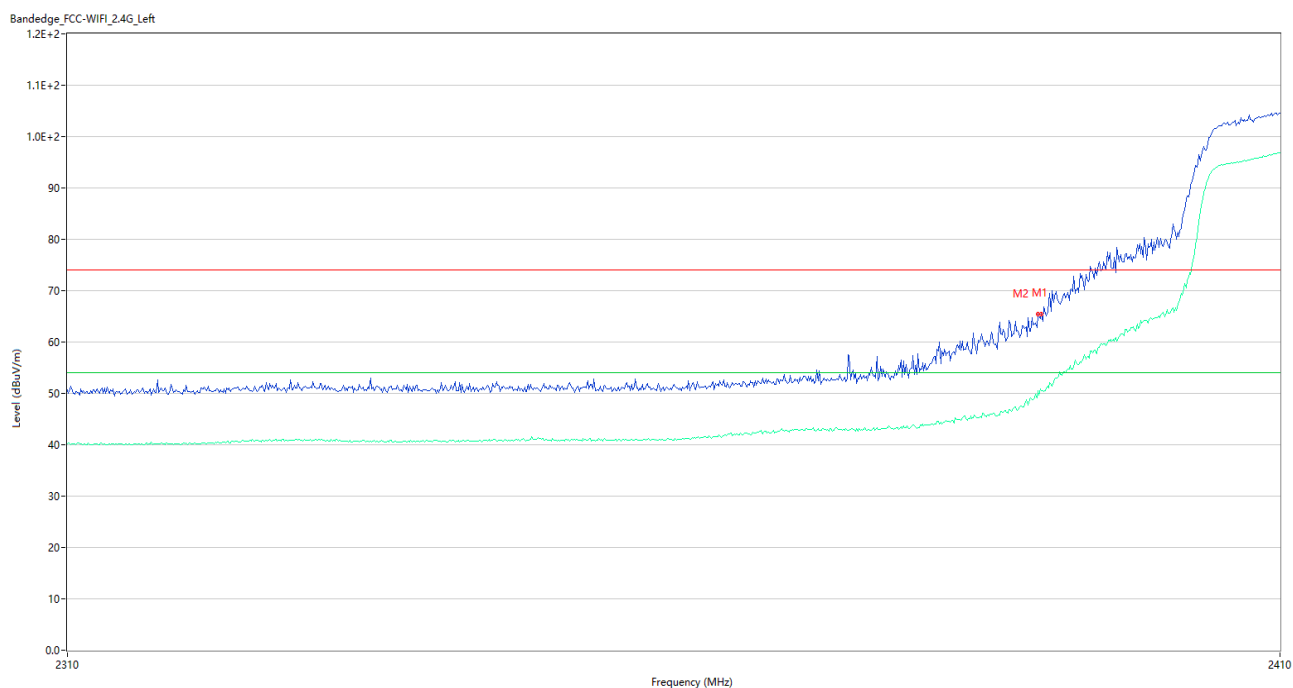
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	51.36	-4.87	74.0	22.64	Peak	22.98	150	Vertical	Pass
1**	2390.000	42.38	-4.87	54.0	11.62	AV	22.98	150	Vertical	Pass
2	2365.100	54.53	-4.54	74.0	19.47	Peak	17.00	150	Vertical	Pass
2**	2365.100	41.56	-4.54	54.0	12.44	AV	17.00	150	Vertical	Pass

802.11b HIGH CHANNEL



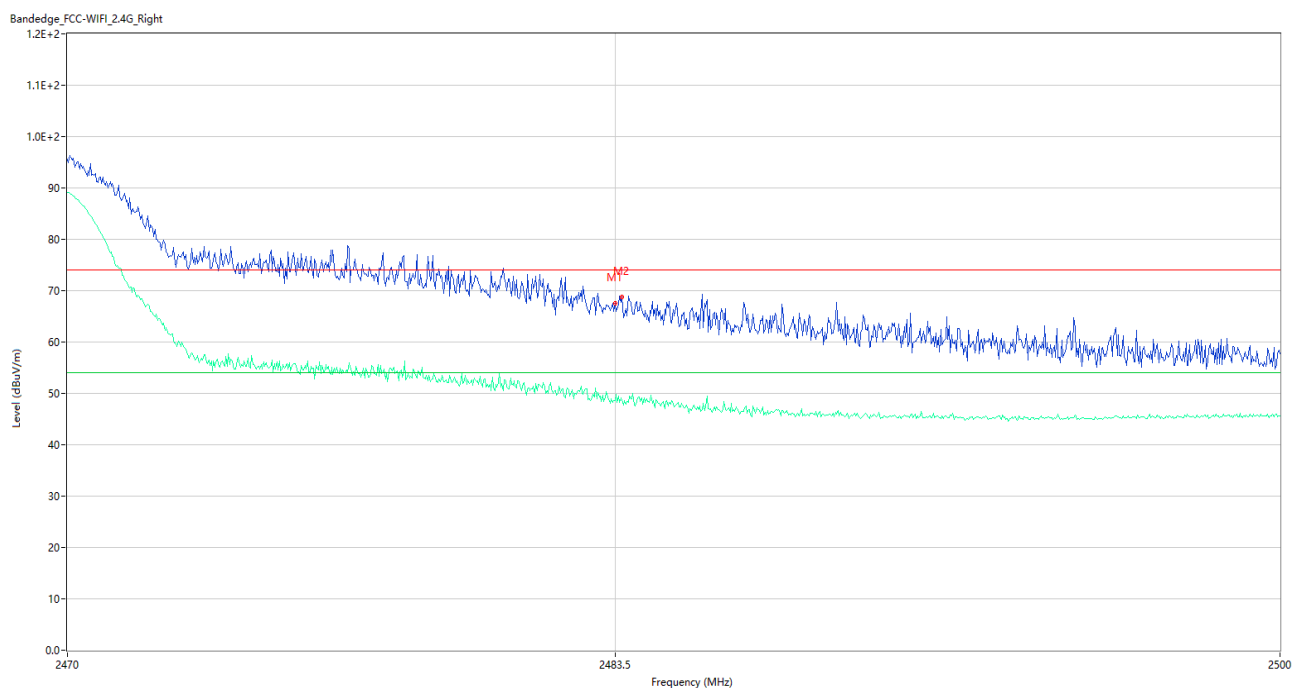
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	56.02	-3.78	74.0	17.98	Peak	146.00	150	Vertical	Pass
1**	2483.500	49.35	-3.78	54.0	4.65	AV	146.00	150	Vertical	Pass
2	2483.650	58.80	-3.78	74.0	15.20	Peak	144.00	150	Vertical	Pass
2**	2483.650	49.26	-3.78	54.0	4.74	AV	144.00	150	Vertical	Pass

802.11g LOW CHANNEL



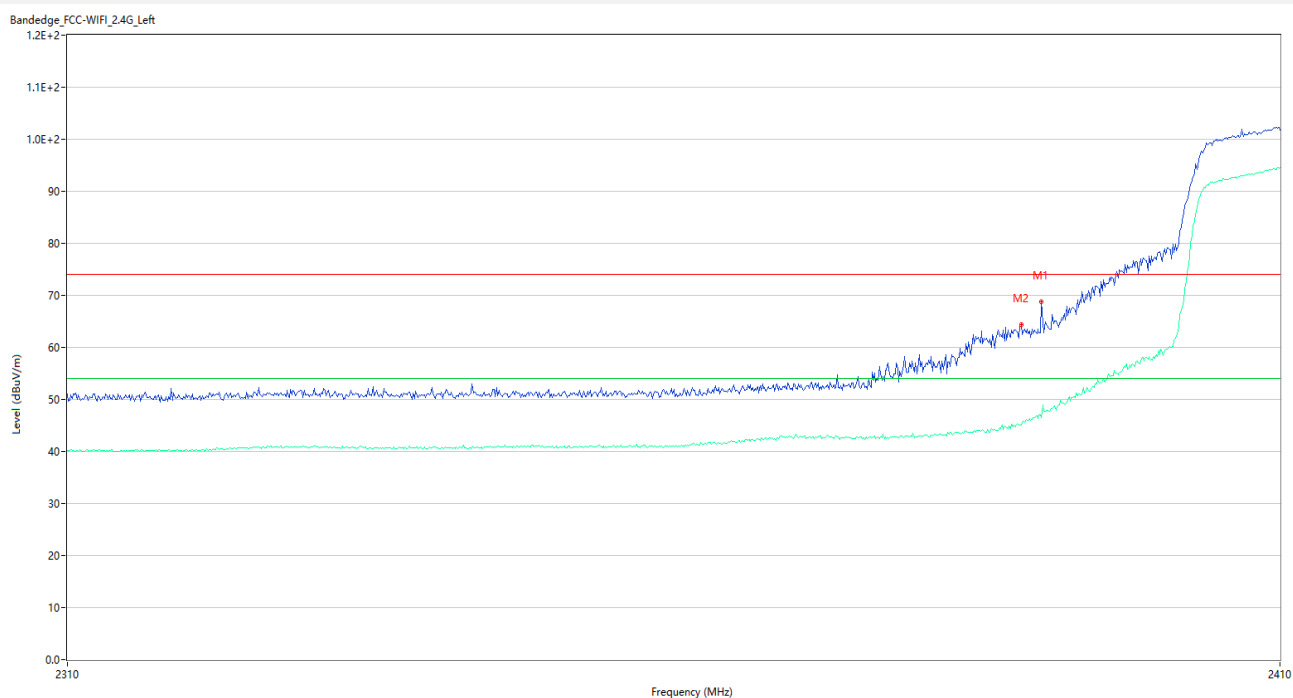
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	65.39	-4.87	74.0	8.61	Peak	142.00	150	Vertical	Pass
1**	2390.000	50.46	-4.87	54.0	3.54	AV	142.00	150	Vertical	Pass
2	2389.700	65.37	-4.86	74.0	8.63	Peak	151.00	150	Vertical	Pass
2**	2389.700	50.55	-4.86	54.0	3.45	AV	151.00	150	Vertical	Pass

802.11g HIGH CHANNEL



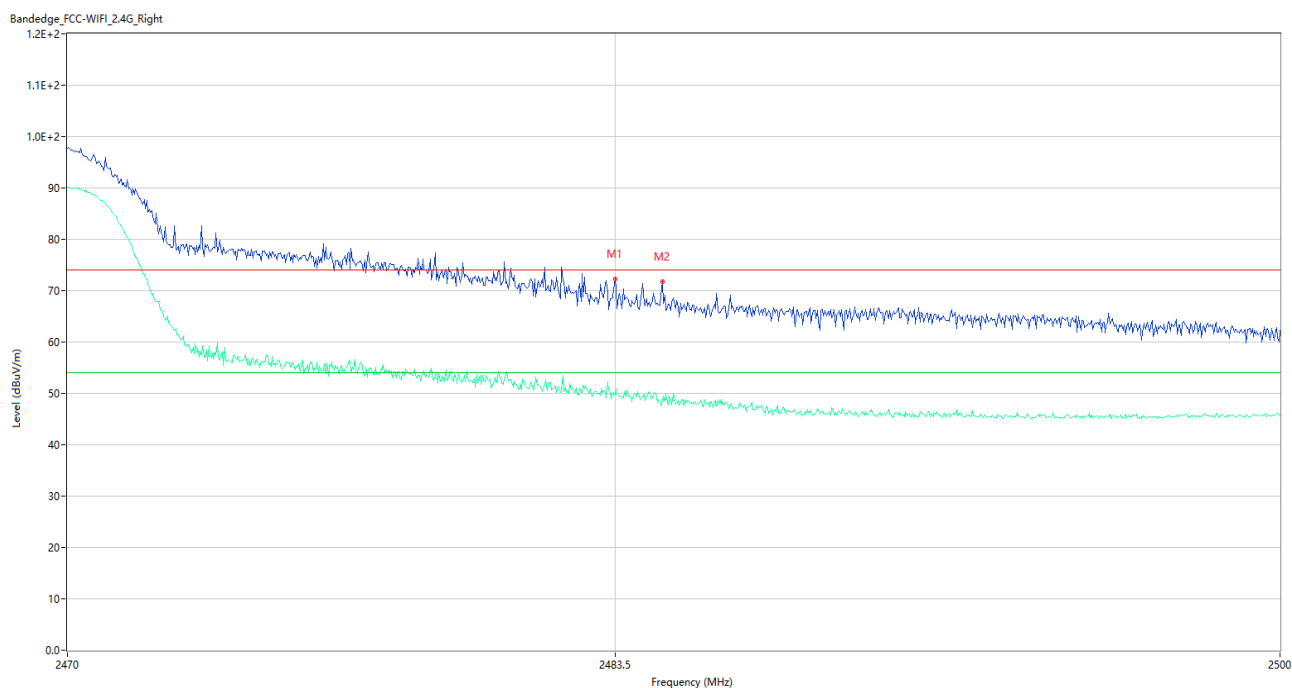
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	67.49	-3.78	74.0	6.51	Peak	146.00	150	Vertical	Pass
1**	2483.500	48.64	-3.78	54.0	5.36	AV	146.00	150	Vertical	Pass
2	2483.680	68.79	-3.78	74.0	5.21	Peak	106.00	150	Vertical	Pass
2**	2483.680	48.80	-3.78	54.0	5.20	AV	106.00	150	Vertical	Pass

802.11n20 LOW CHANNEL



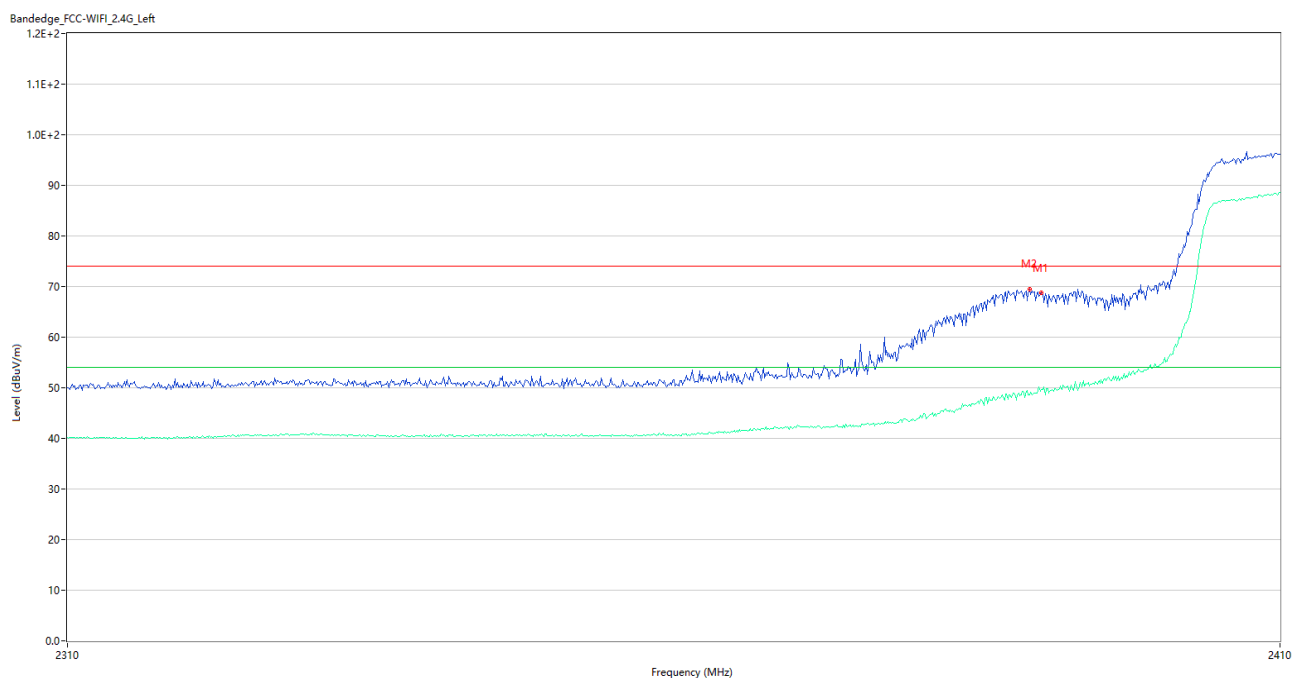
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	68.85	-4.87	74.0	5.15	Peak	142.00	150	Vertical	Pass
1**	2390.000	46.48	-4.87	54.0	7.52	AV	142.00	150	Vertical	Pass
2	2388.300	64.41	-4.78	74.0	9.59	Peak	142.00	150	Vertical	Pass
2**	2388.300	45.00	-4.78	54.0	9.00	AV	142.00	150	Vertical	Pass

802.11n20 HIGH CHANNEL



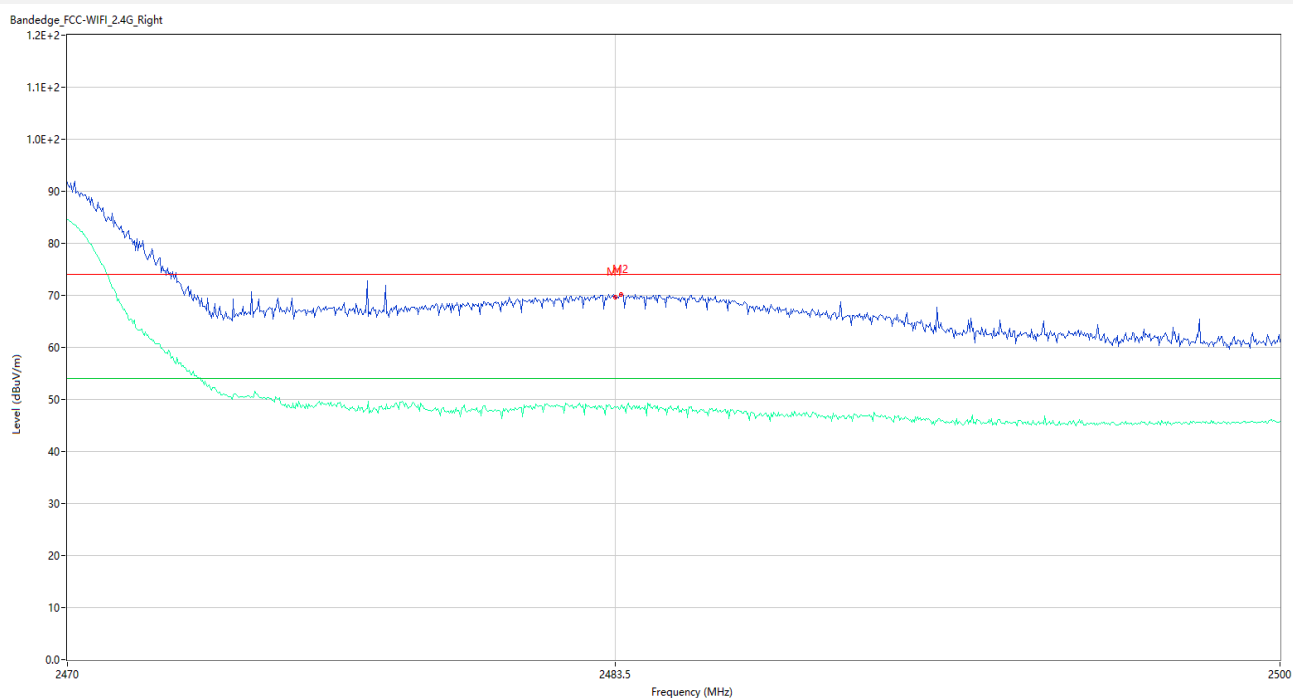
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	72.28	-3.78	74.0	1.72	Peak	133.00	150	Vertical	Pass
1**	2483.500	49.72	-3.78	54.0	4.28	AV	133.00	150	Vertical	Pass
2	2484.670	71.73	-3.78	74.0	2.27	Peak	157.00	150	Vertical	Pass
2**	2484.670	48.68	-3.78	54.0	5.32	AV	157.00	150	Vertical	Pass

802.11n40 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	68.77	-4.87	74.0	5.23	Peak	145.99	150	Vertical	Pass
1**	2390.000	49.61	-4.87	54.0	4.39	AV	145.99	150	Vertical	Pass
2	2389.000	69.44	-4.82	74.0	4.56	Peak	144.00	150	Vertical	Pass
2**	2389.000	48.56	-4.82	54.0	5.44	AV	144.00	150	Vertical	Pass

802.11n40 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	69.59	-3.78	74.0	4.41	Peak	145.00	150	Vertical	Pass
1**	2483.500	48.58	-3.78	54.0	5.42	AV	145.00	150	Vertical	Pass
2	2483.650	70.18	-3.78	74.0	3.82	Peak	145.00	150	Vertical	Pass
2**	2483.650	48.51	-3.78	54.0	5.49	AV	145.00	150	Vertical	Pass

A.8 Power Spectral Density (PSD)

Note: All the configurations were pre tested, only the worst configuration has been reported in this report.

Test Data

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-4.90	8
Middle	-2.74	8
High	-3.76	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-5.82	8
Middle	-6.64	8
High	-6.13	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-8.81	8
Middle	-8.06	8
High	-8.61	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-13.00	8
Middle	-11.02	8
High	-11.57	8

Test Plots

802.11b LOW CHANNEL



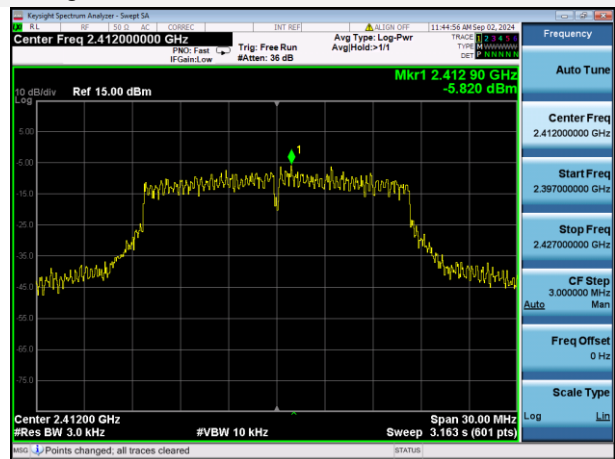
802.11b MIDDLE CHANNEL



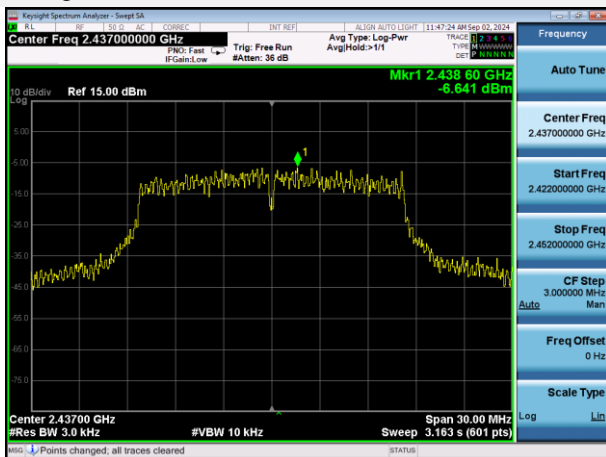
802.11b HIGH CHANNEL



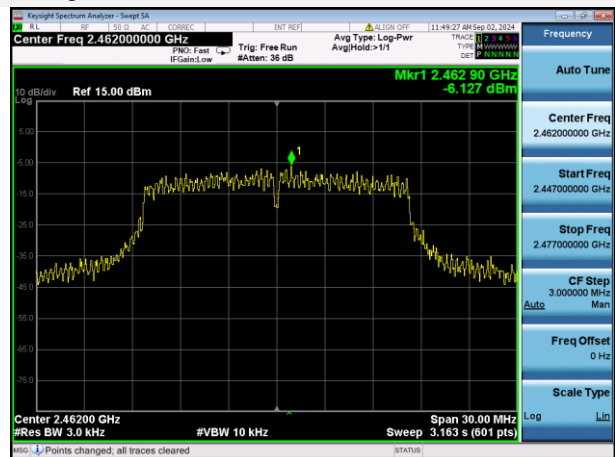
802.11g LOW CHANNEL



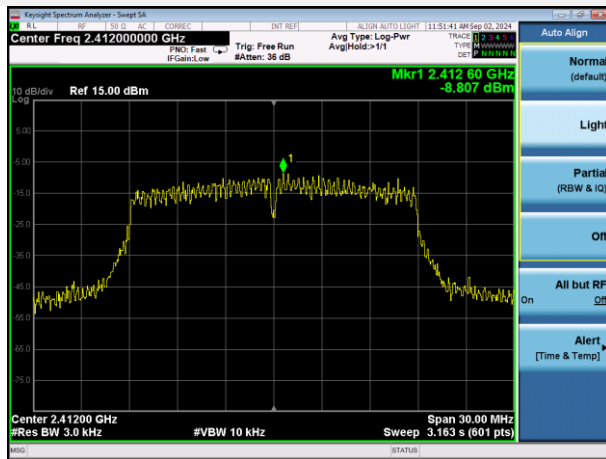
802.11g MIDDLE CHANNEL



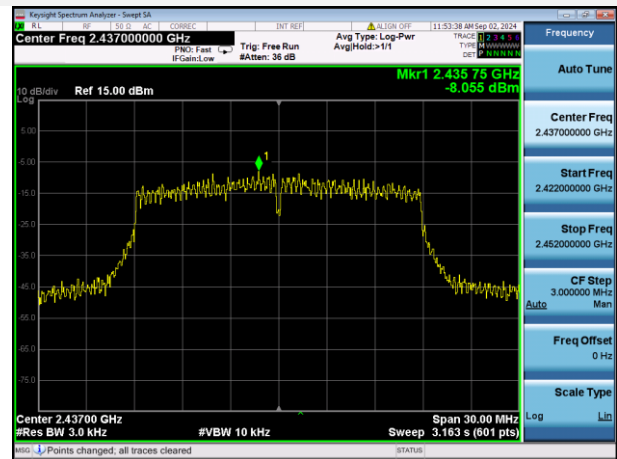
802.11g HIGH CHANNEL



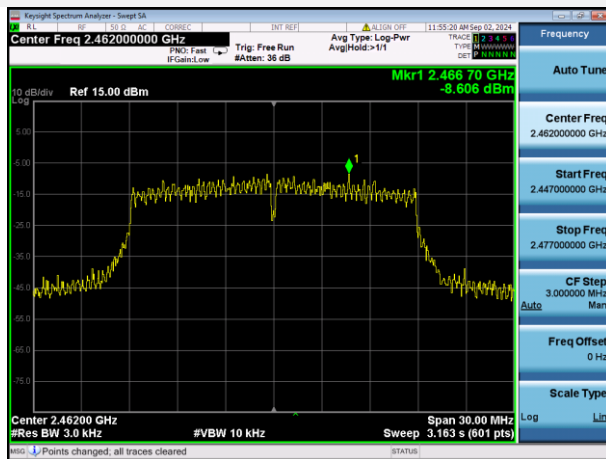
802.11n-20 MHz LOW CHANNEL



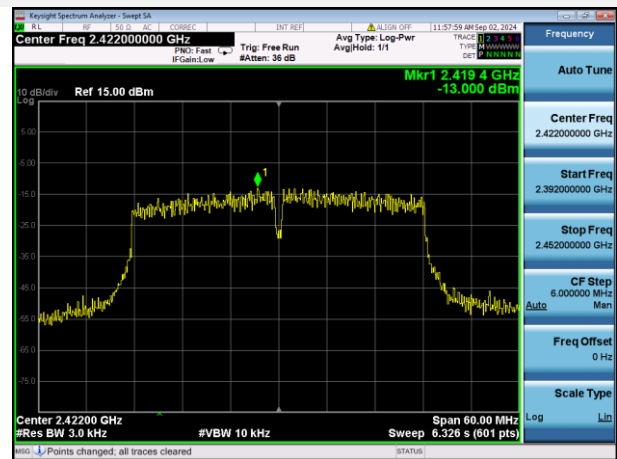
802.11 n-20 MHz MIDDLE CHANNEL



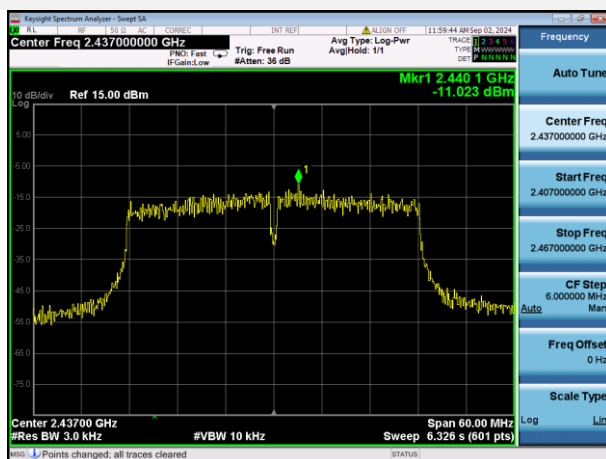
802.11n-20 MHz HIGH CHANNEL



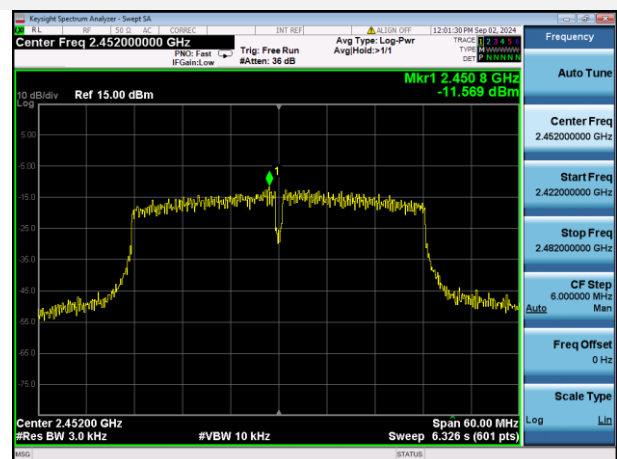
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH2480553-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH2480553-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH2480553-AI.PDF”.

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--END OF REPORT--