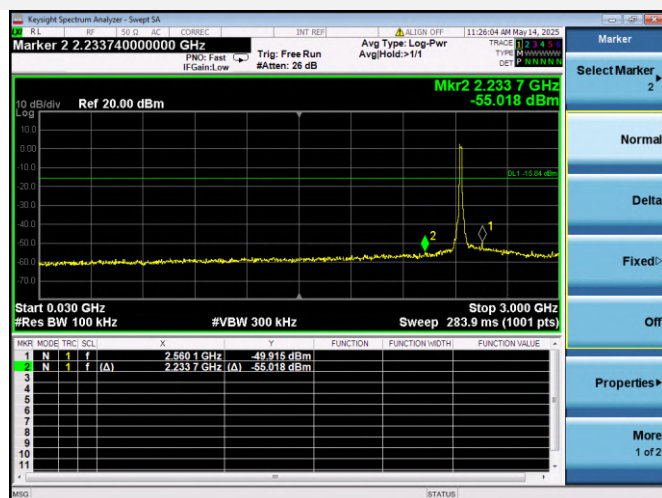
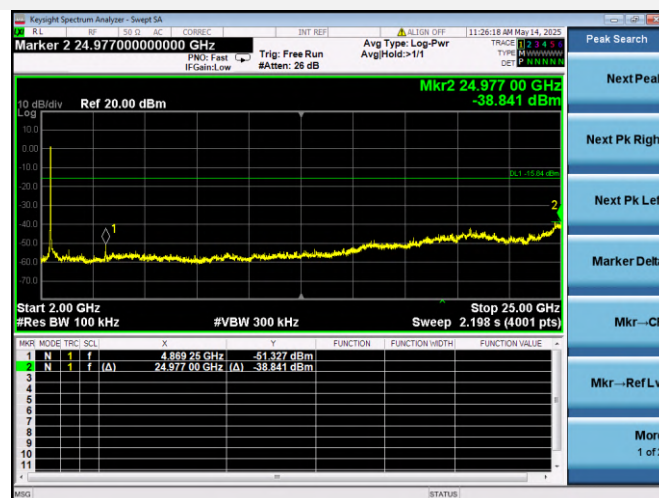


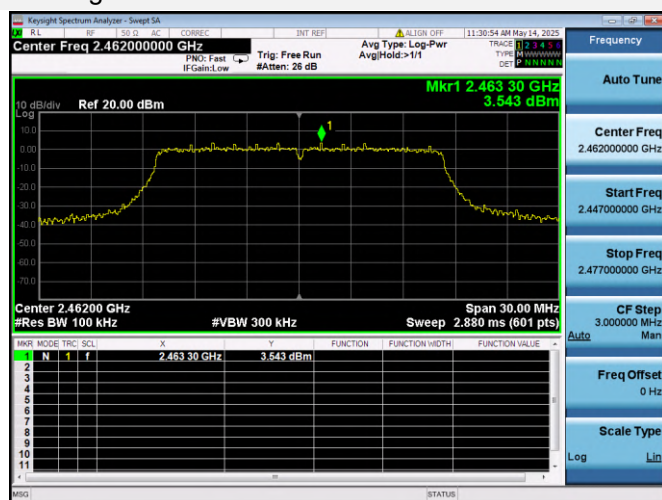
802.11g MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



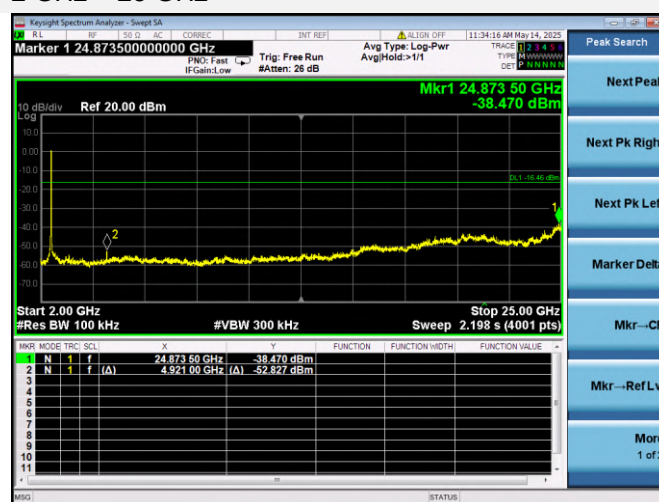
802.11g MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



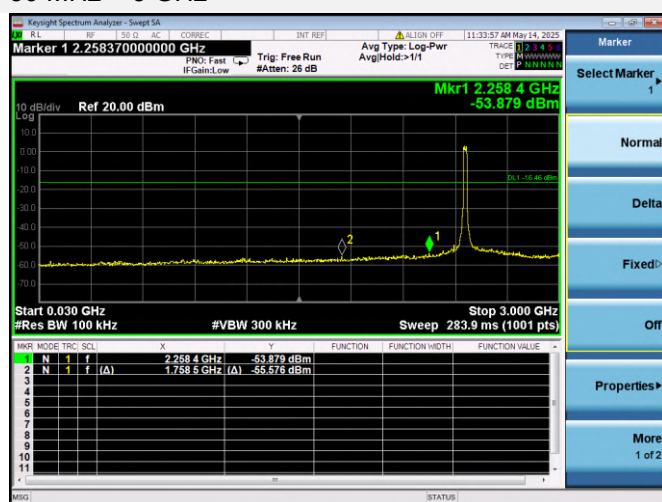
802.11g HIGH CHANNEL CARRIER LEVEL



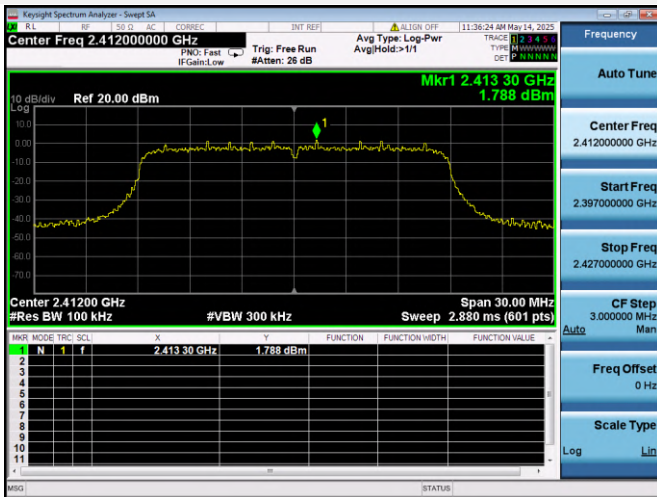
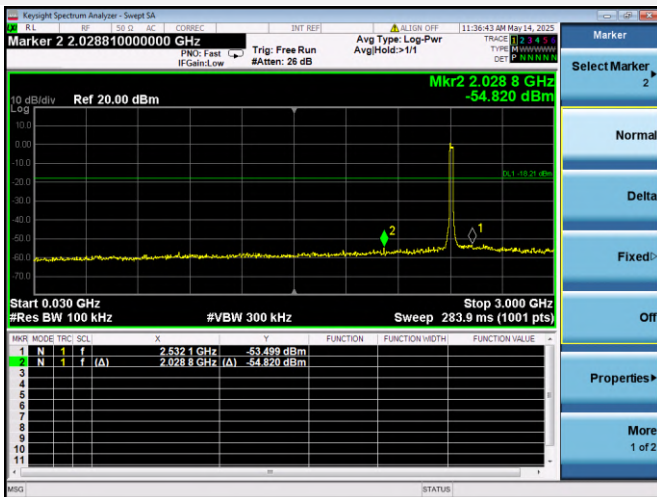
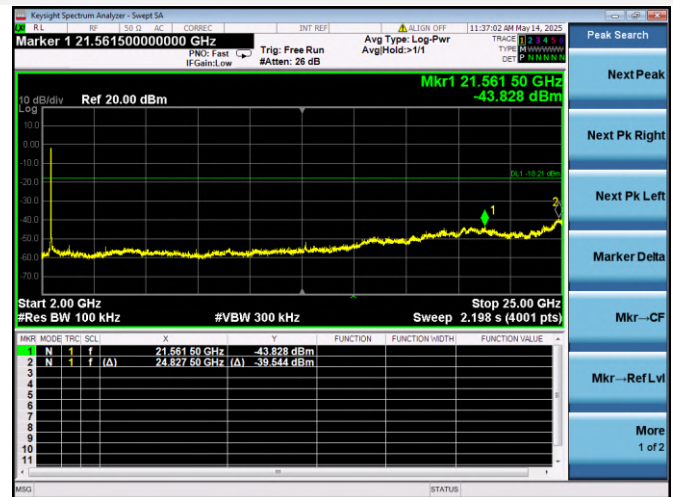
802.11g HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



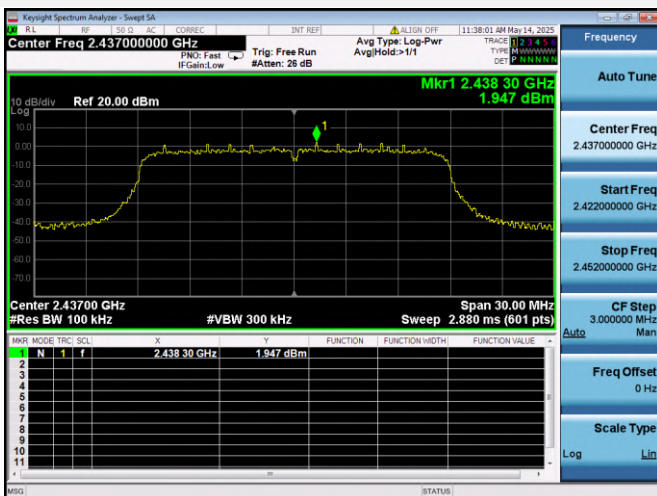
802.11g HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



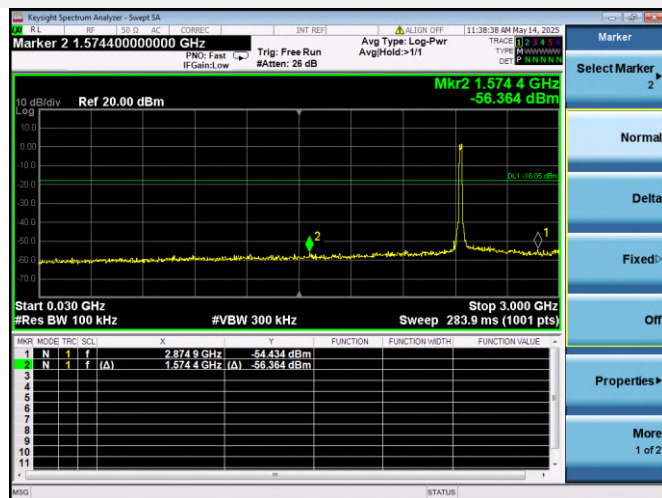
802.11n-20 MHz LOW CHANNEL CARRIER LEVEL

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

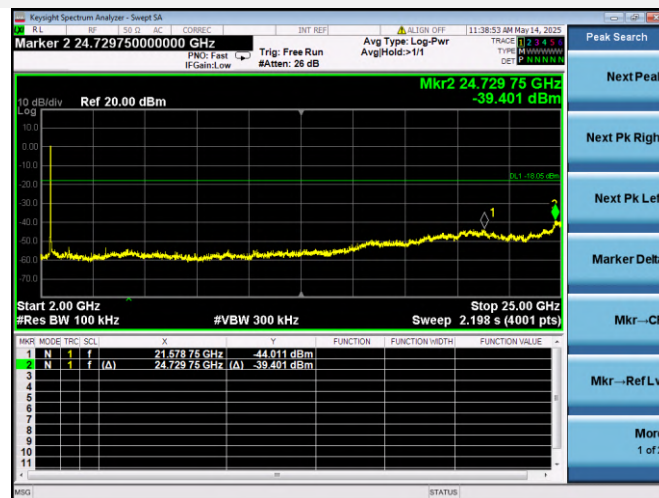
802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL



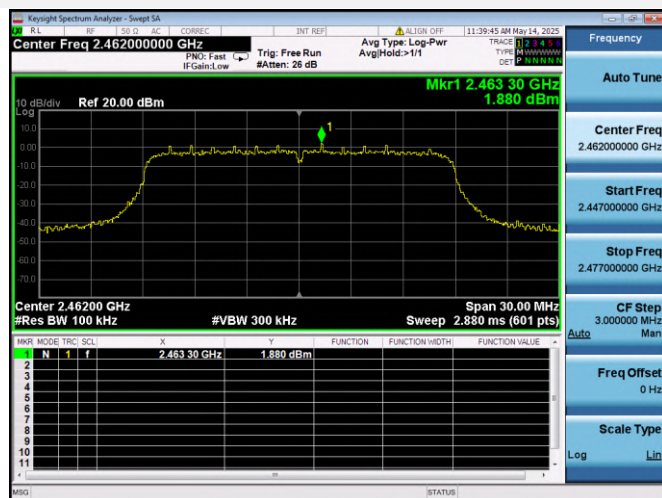
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



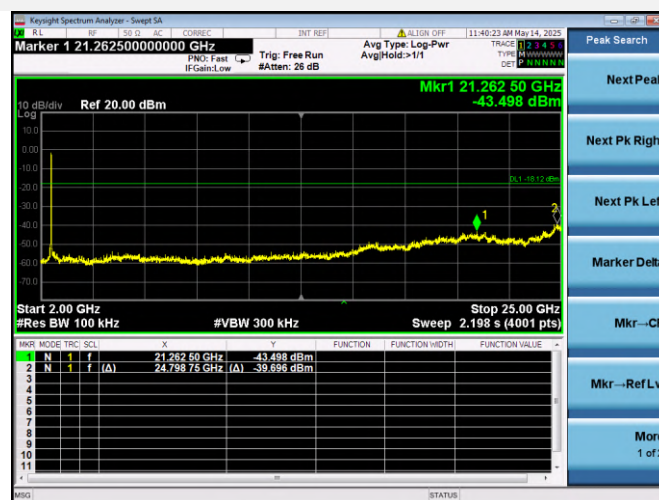
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



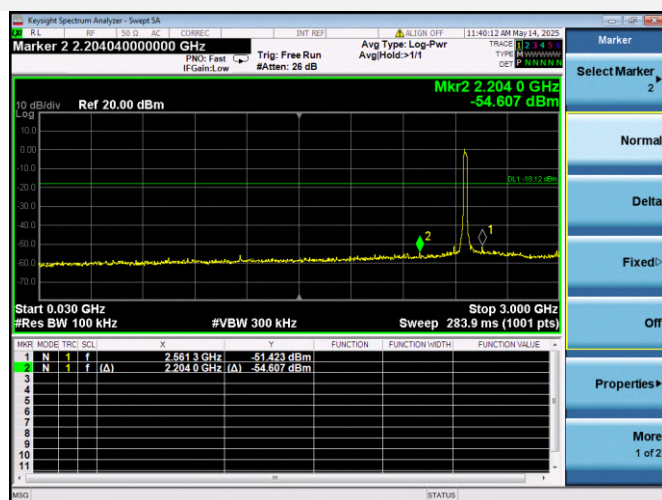
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



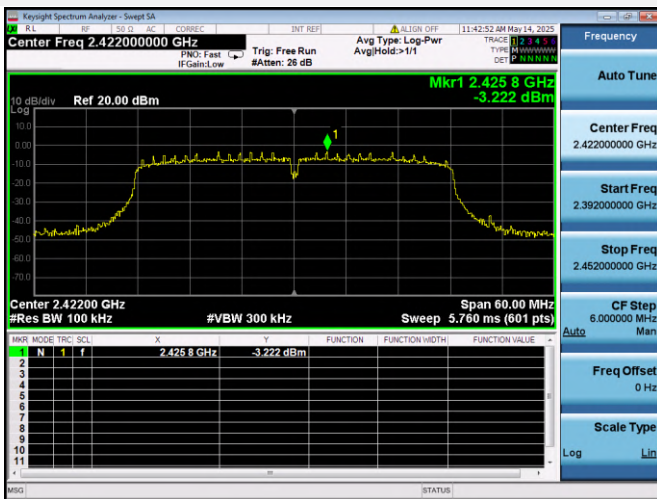
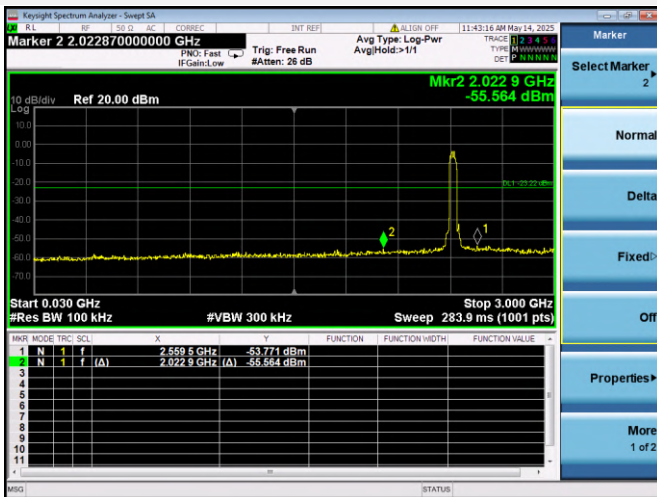
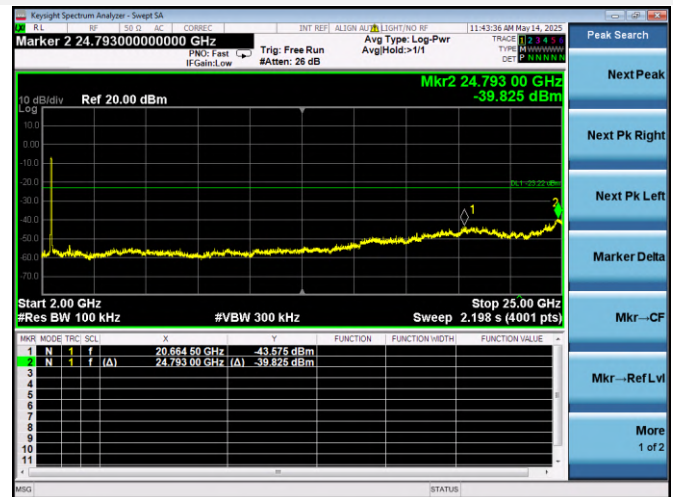
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



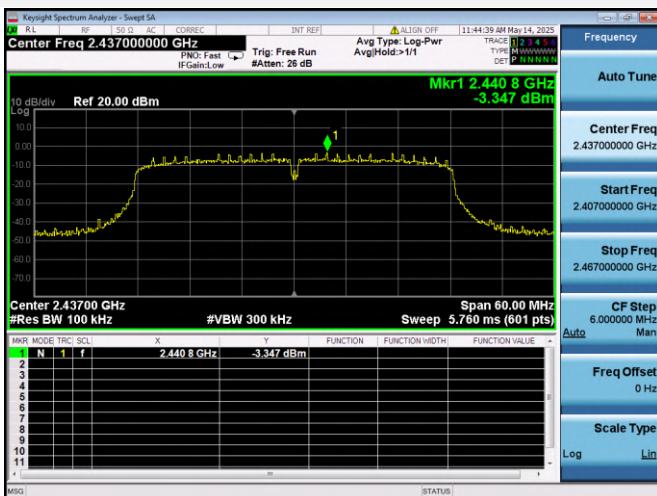
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



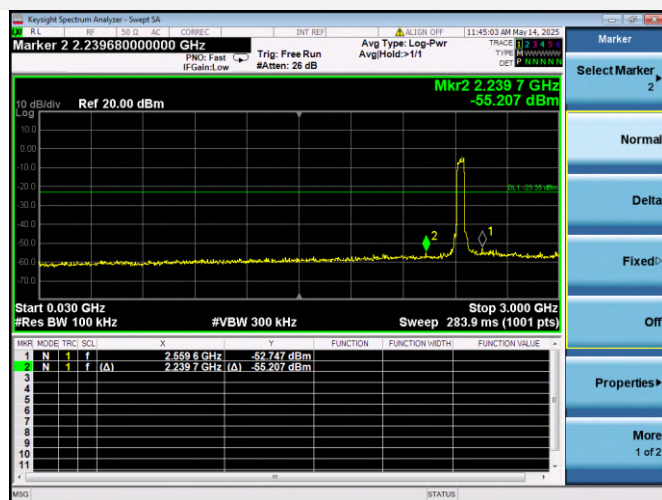
802.11n-40 MHz LOW CHANNEL CARRIER LEVEL

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

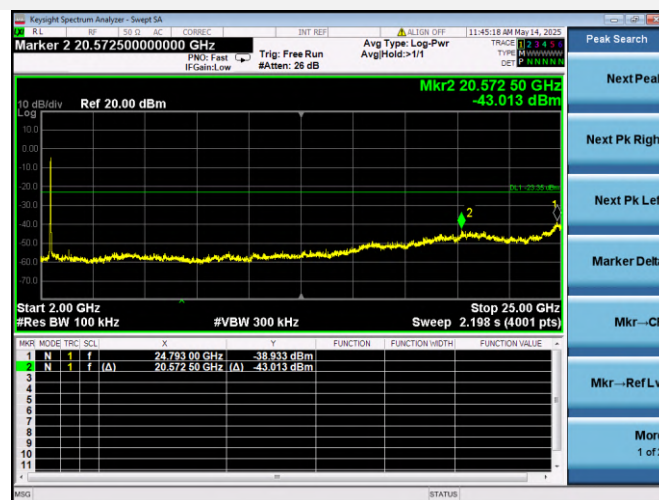
802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL



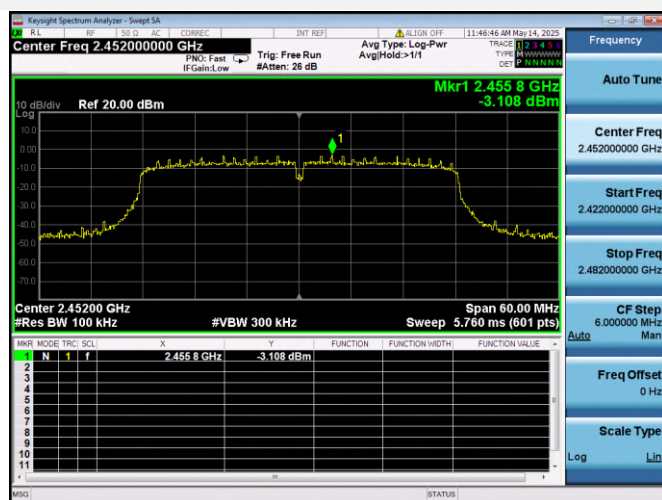
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



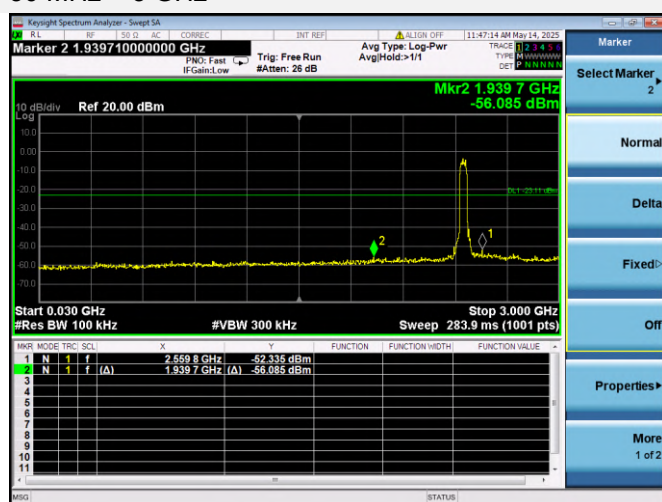
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



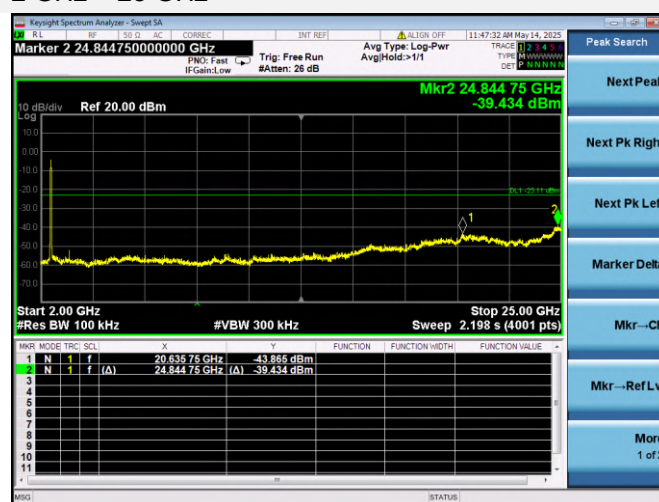
802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



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 antenna were tested, but only the worst case 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	-42.10	8.87	-11.13	Pass
High	-46.25	8.83	-11.17	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-35.57	4.06	-15.94	Pass
High	-43.04	3.54	-16.46	Pass

802.11n-20 MHz Mode:

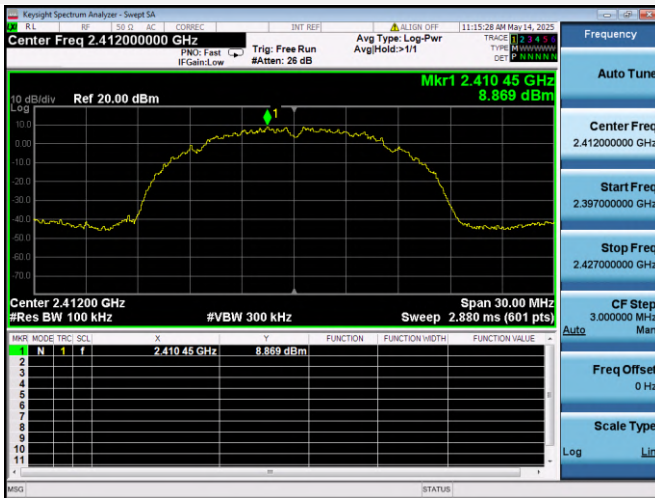
Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-40.51	1.79	-18.21	Pass
High	-45.54	1.88	-18.12	Pass

802.11n-40 MHz Mode:

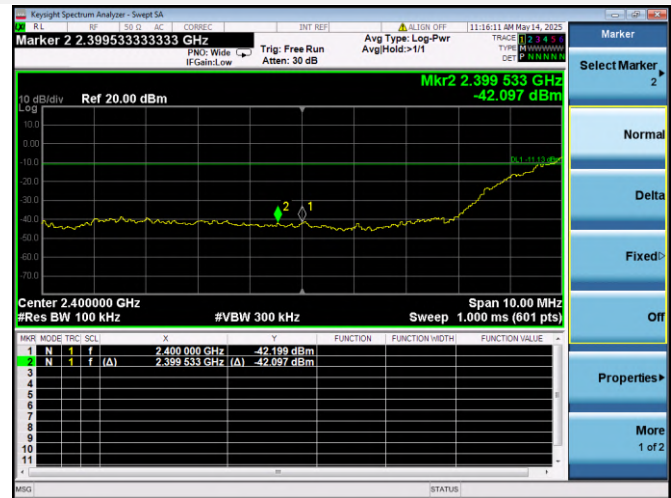
Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-38.80	-3.22	-23.22	Pass
High	-41.96	-3.11	-23.11	Pass

Test Plots

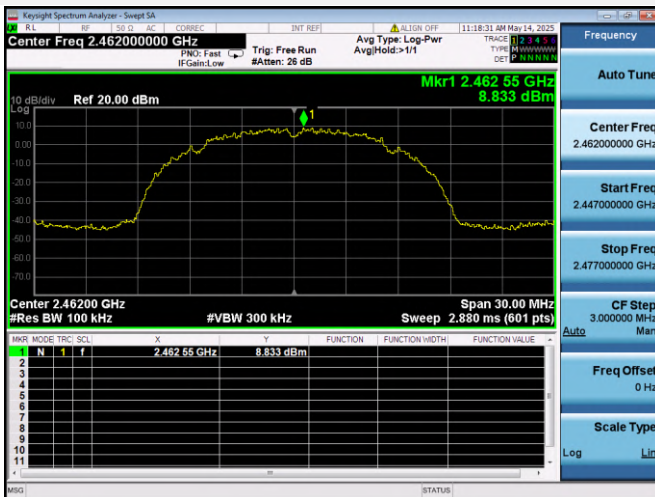
802.11b LOW CHANNEL, CARRIER LEVEL



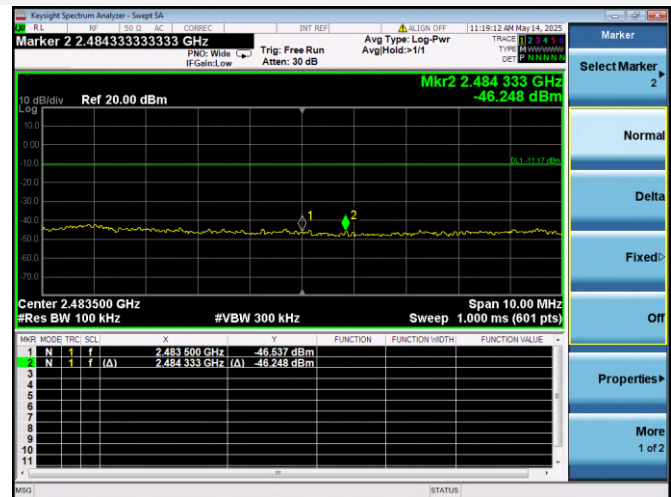
802.11b LOW CHANNEL, BAND EDGE



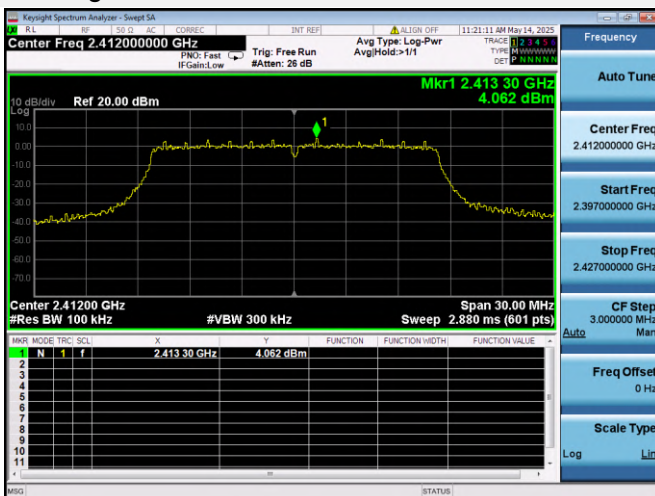
802.11b HIGH CHANNEL, CARRIER LEVEL



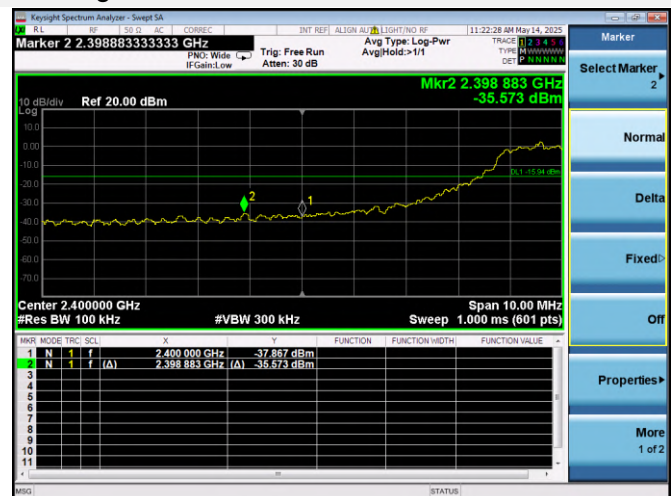
802.11b HIGH CHANNEL, BAND EDGE



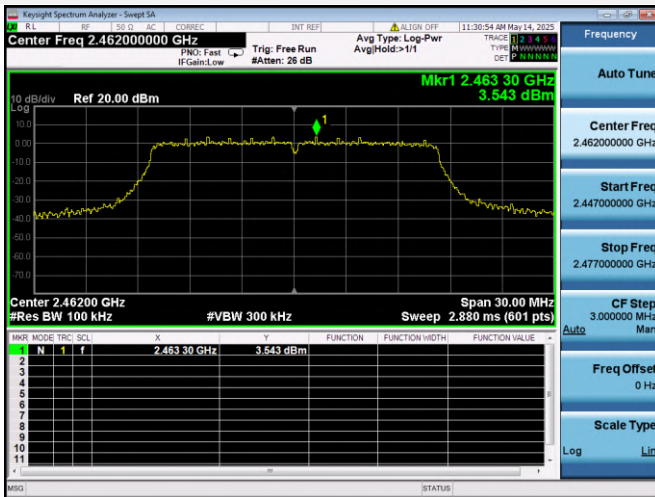
802.11g LOW CHANNEL, CARRIER LEVEL



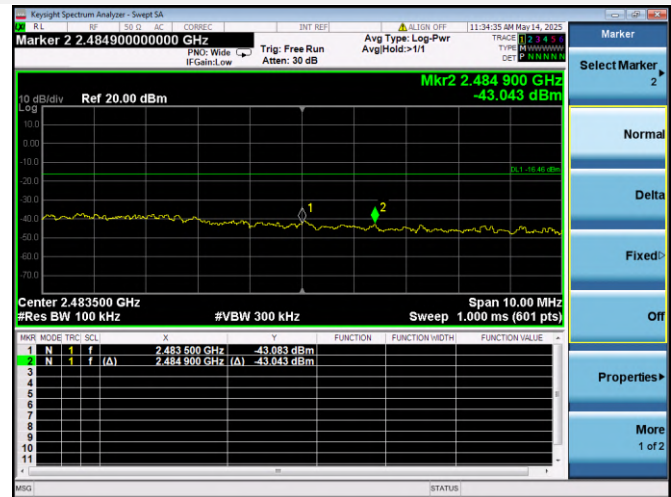
802.11g LOW CHANNEL, BAND EDGE



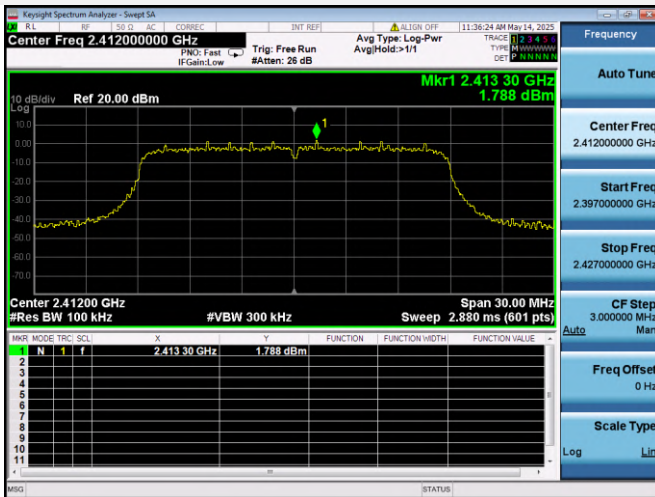
802.11g HIGH CHANNEL, CARRIER LEVEL



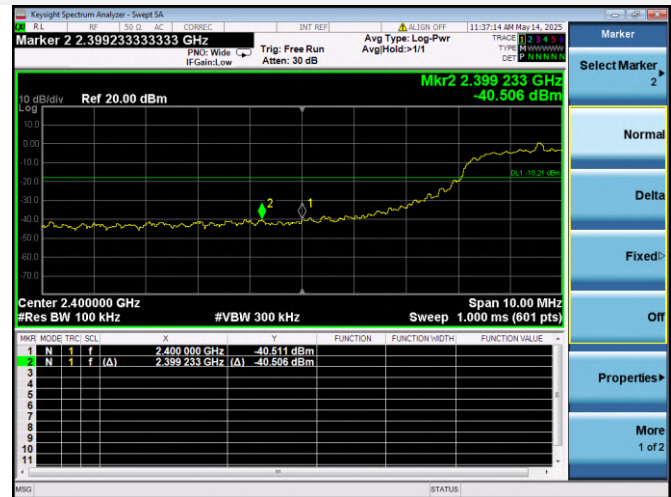
802.11g HIGH CHANNEL, BAND EDGE



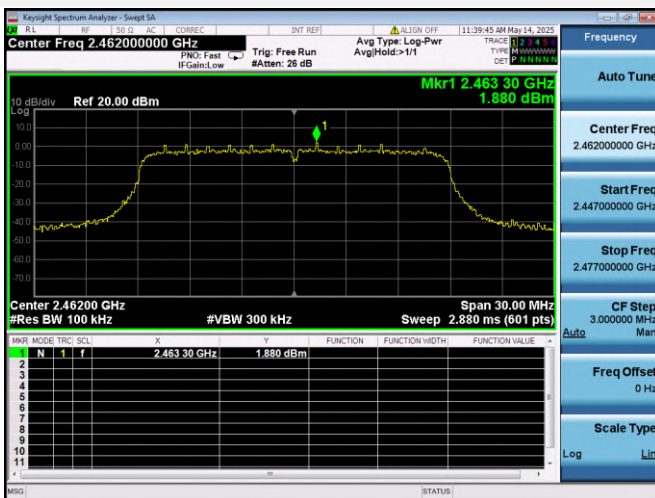
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



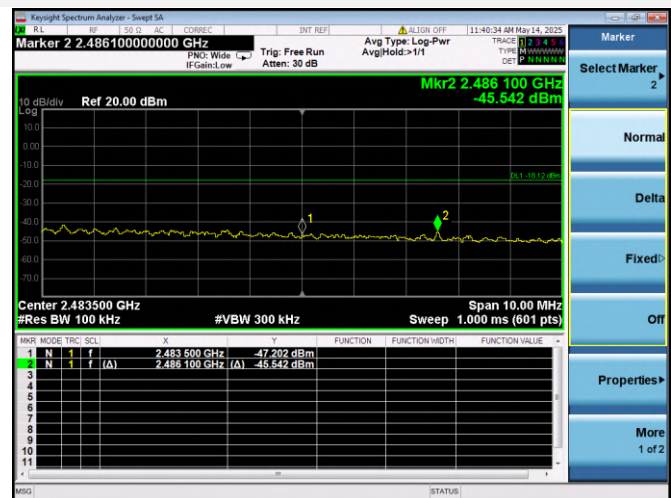
802.11n-20 MHz LOW CHANNEL, BAND EDGE



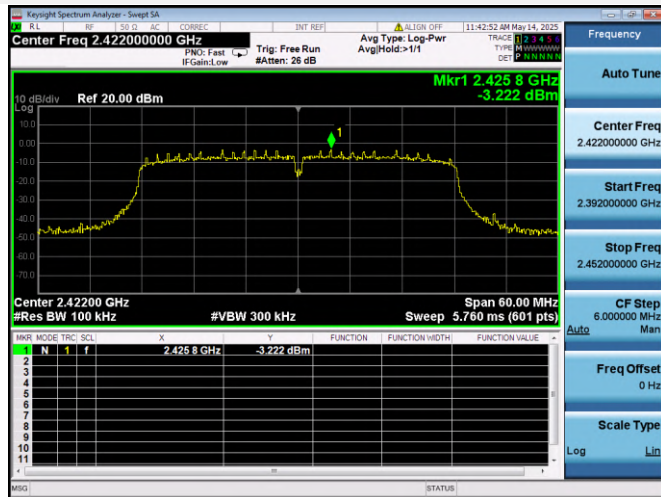
802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-20 MHz HIGH CHANNEL, BAND EDGE



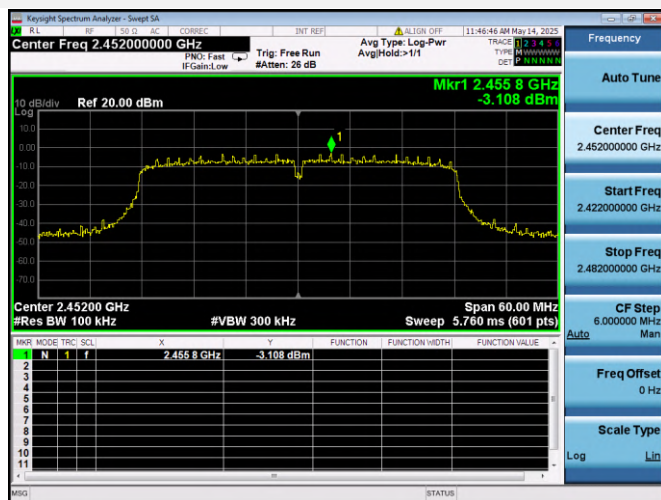
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



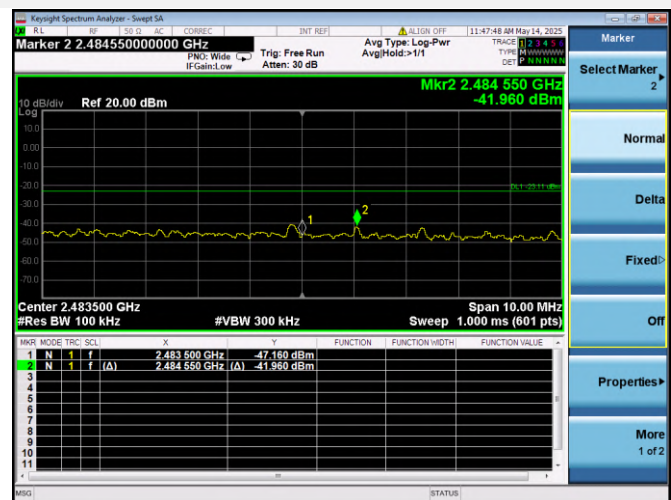
802.11n-40 MHz LOW CHANNEL, BAND EDGE



802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, BAND EDGE



A.5 Conducted Emission

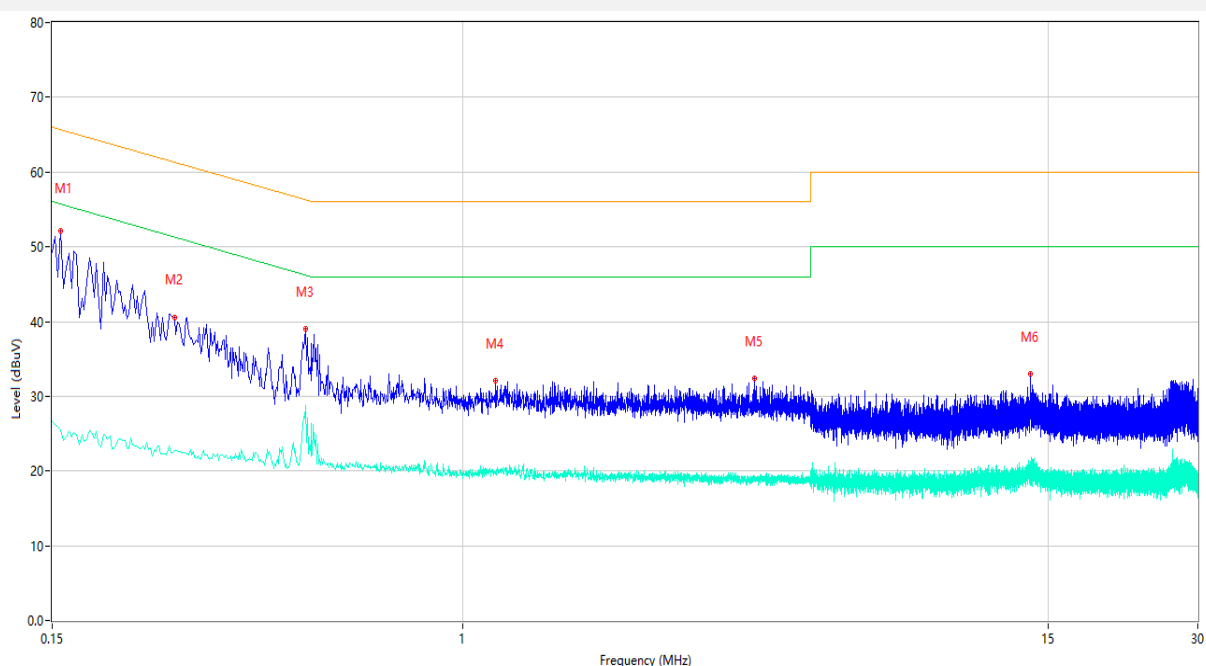
Note 1: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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

Note 3: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

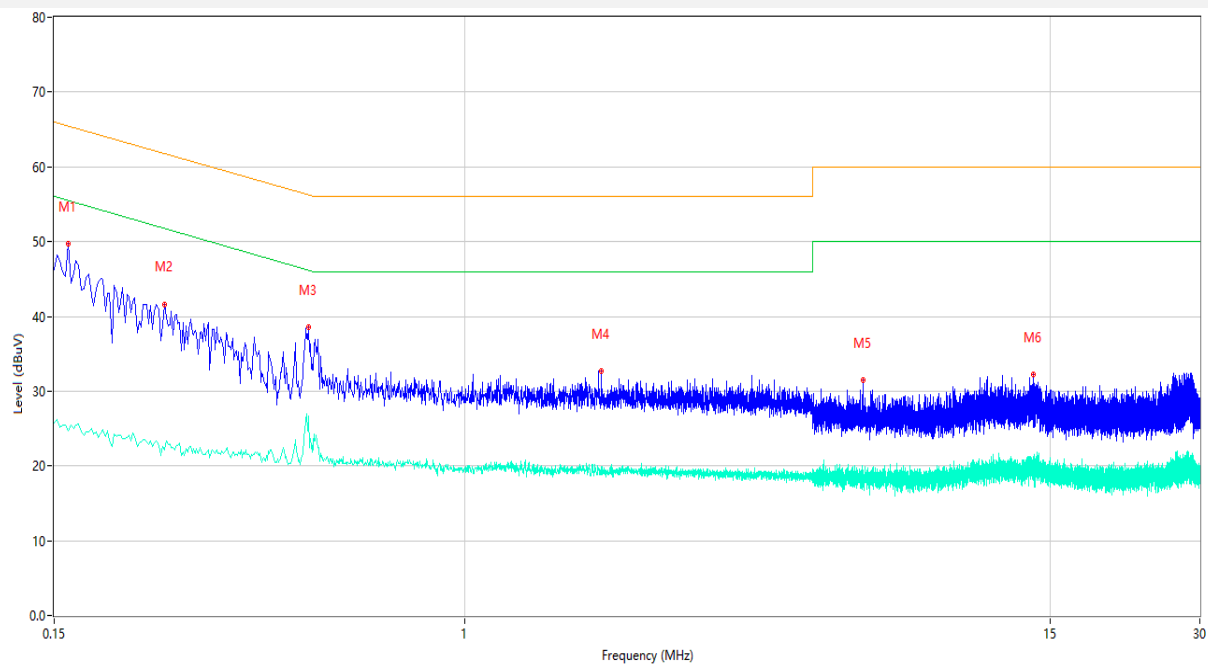
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin(dB)	Detector	Line	Verdict
1	0.156	52.10	9.83	65.67	13.57	Peak	L	Pass
1**	0.156	25.44	9.83	55.67	30.23	AV	L	Pass
2	0.264	40.60	9.77	61.30	20.70	Peak	L	Pass
2**	0.264	22.72	9.77	51.30	28.58	AV	L	Pass
3	0.484	38.96	9.77	56.27	17.31	Peak	L	Pass
3**	0.484	28.76	9.77	46.27	17.51	AV	L	Pass
4	1.166	32.08	9.77	56.00	23.92	Peak	L	Pass
4**	1.166	19.87	9.77	46.00	26.13	AV	L	Pass
5	3.864	32.40	9.61	56.00	23.60	Peak	L	Pass
5**	3.864	19.19	9.61	46.00	26.81	AV	L	Pass
6	13.828	33.03	8.98	60.00	26.97	Peak	L	Pass
6**	13.828	21.25	8.98	50.00	28.75	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin(dB)	Detector	Line	Verdict
1	0.160	49.74	9.73	65.46	15.72	Peak	N	Pass
1**	0.160	24.69	9.73	55.46	30.77	AV	N	Pass
2	0.250	41.65	9.73	61.76	20.11	Peak	N	Pass
2**	0.250	22.19	9.73	51.76	29.57	AV	N	Pass
3	0.486	38.52	9.75	56.24	17.72	Peak	N	Pass
3**	0.486	26.63	9.75	46.24	19.61	AV	N	Pass
4	1.884	32.67	9.76	56.00	23.33	Peak	N	Pass
4**	1.884	19.85	9.76	46.00	26.15	AV	N	Pass
5	6.318	31.52	9.50	60.00	28.48	Peak	N	Pass
5**	6.318	19.47	9.50	50.00	30.53	AV	N	Pass
6	13.876	32.21	9.03	60.00	27.79	Peak	N	Pass
6**	13.876	19.57	9.03	50.00	30.43	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.

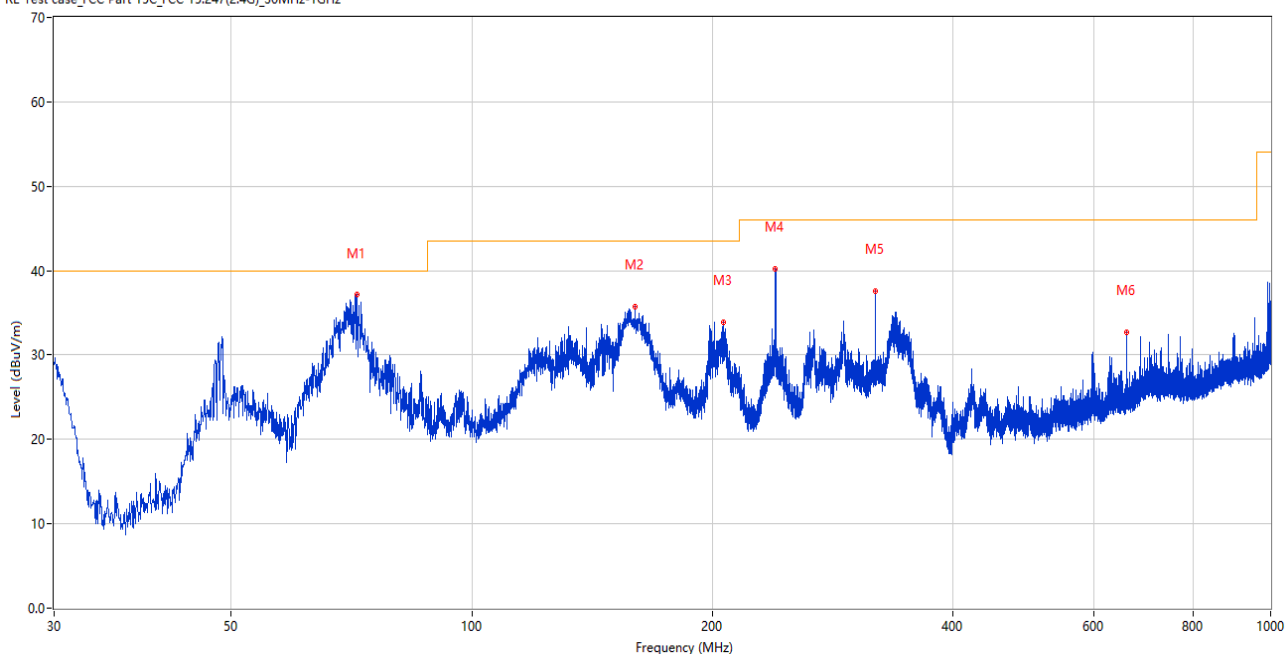
Note 3: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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

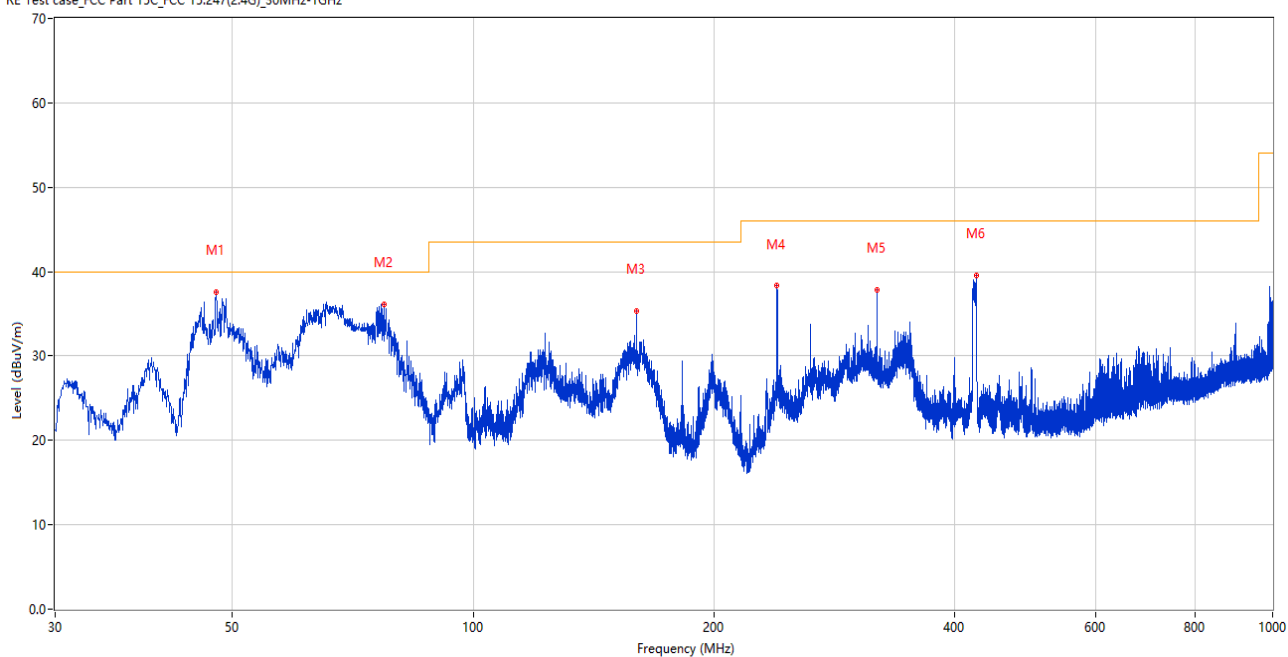
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	71.758	37.11	-29.53	40.0	2.89	Peak	120.00	100	Horizontal	Pass
2	159.980	43.75	-28.80	43.5	-0.25	Peak	150.00	100	Horizontal	N/A
3	206.588	33.93	-26.36	43.5	9.57	Peak	162.00	100	Horizontal	Pass
4	240.005	40.23	-24.48	46.0	5.77	Peak	11.00	200	Horizontal	Pass
5	319.982	37.62	-22.69	46.0	8.38	Peak	198.00	200	Horizontal	Pass
6	660.451	32.70	-14.39	46.0	13.30	Peak	162.00	200	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	47.751	37.59	-24.54	40.0	2.41	Peak	348.00	100	Vertical	Pass
2	77.287	36.07	-30.89	40.0	3.93	Peak	75.00	100	Vertical	Pass
3	160.028	35.30	-28.80	43.5	8.20	Peak	199.00	200	Vertical	Pass
4	240.005	38.30	-24.48	46.0	7.70	Peak	218.00	100	Vertical	Pass
5	319.982	37.78	-22.69	46.0	8.22	Peak	150.00	200	Vertical	Pass
6	425.857	39.55	-19.84	46.0	6.45	Peak	359.00	200	Vertical	Pass

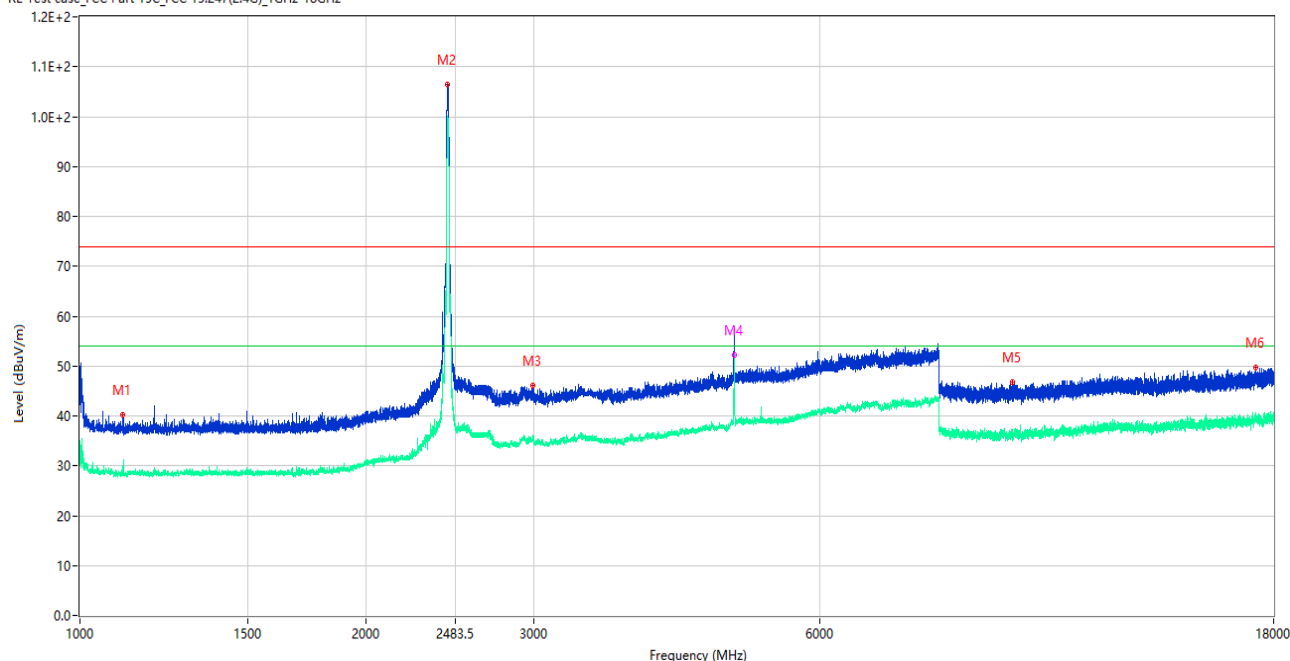
Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note 2: The spurious above 18G is noise only, do not show on the report.

Note 3: All antenna were pre tested, but only the worst case has been reported in this report.

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

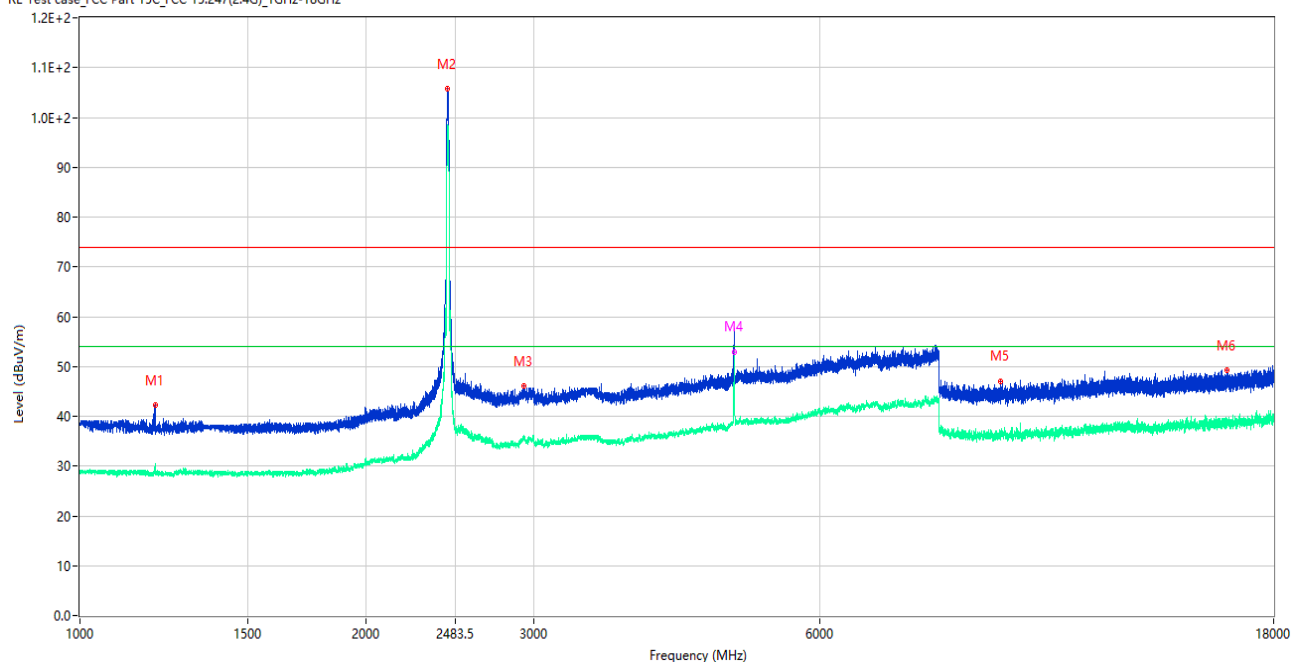
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1110.250	40.28	-15.76	74.0	33.72	Peak	200.00	150	Horizontal	Pass
1**	1110.250	28.96	-15.76	54.0	25.04	AV	200.00	150	Horizontal	Pass
2	2435.500	106.49	-12.31	74.0	-32.49	Peak	42.00	150	Horizontal	N/A
2**	2435.500	99.21	-12.31	54.0	-45.21	AV	42.00	150	Horizontal	N/A
3	2995.000	46.20	-8.89	74.0	27.80	Peak	271.00	150	Horizontal	Pass
3**	2995.000	35.54	-8.89	54.0	18.46	AV	271.00	150	Horizontal	Pass
4	4874.500	55.92	-2.25	74.0	18.08	Peak	272.00	150	Horizontal	Pass
4**	4874.500	52.25	-2.25	54.0	1.75	AV	272.00	150	Horizontal	Pass
5	9571.000	46.80	-3.45	74.0	27.20	Peak	0.00	150	Horizontal	Pass
5**	9571.000	35.61	-3.45	54.0	18.39	AV	0.00	150	Horizontal	Pass
6	17252.499	49.78	-0.73	74.0	24.22	Peak	0.00	150	Horizontal	Pass
6**	17252.499	39.23	-0.73	54.0	14.77	AV	0.00	150	Horizontal	Pass

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

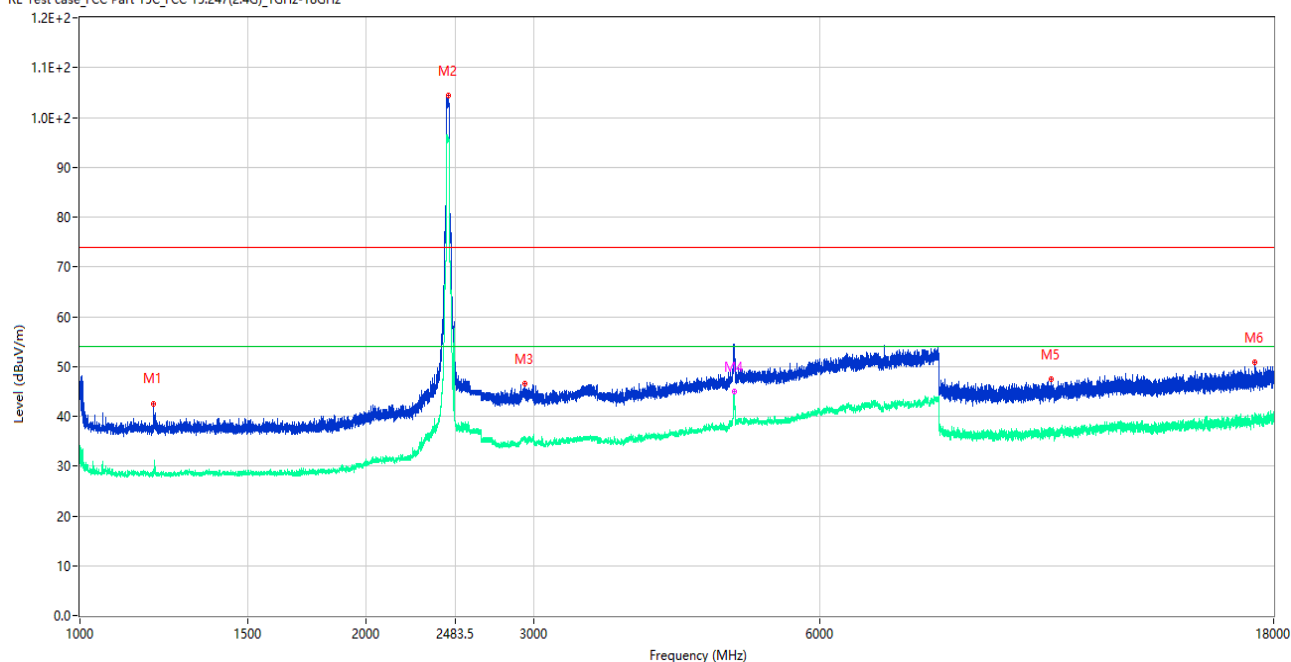
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1199.250	42.32	-15.75	74.0	31.68	Peak	201.00	150	Vertical	Pass
1**	1199.250	29.07	-15.75	54.0	24.93	AV	201.00	150	Vertical	Pass
2	2437.250	105.83	-12.37	74.0	-31.83	Peak	197.00	150	Vertical	N/A
2**	2437.250	97.49	-12.37	54.0	-43.49	AV	197.00	150	Vertical	N/A
3	2928.500	46.05	-7.99	74.0	27.95	Peak	114.00	150	Vertical	Pass
3**	2928.500	35.75	-7.99	54.0	18.25	AV	114.00	150	Vertical	Pass
4	4874.500	57.28	-2.25	74.0	16.72	Peak	0.00	150	Vertical	Pass
4**	4874.500	52.97	-2.25	54.0	1.03	AV	0.00	150	Vertical	Pass
5	9298.000	47.10	-5.44	74.0	26.90	Peak	360.00	150	Vertical	Pass
5**	9298.000	36.54	-5.44	54.0	17.46	AV	360.00	150	Vertical	Pass
6	16075.000	49.33	-1.62	74.0	24.67	Peak	360.00	150	Vertical	Pass
6**	16075.000	37.75	-1.62	54.0	16.25	AV	360.00	150	Vertical	Pass

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

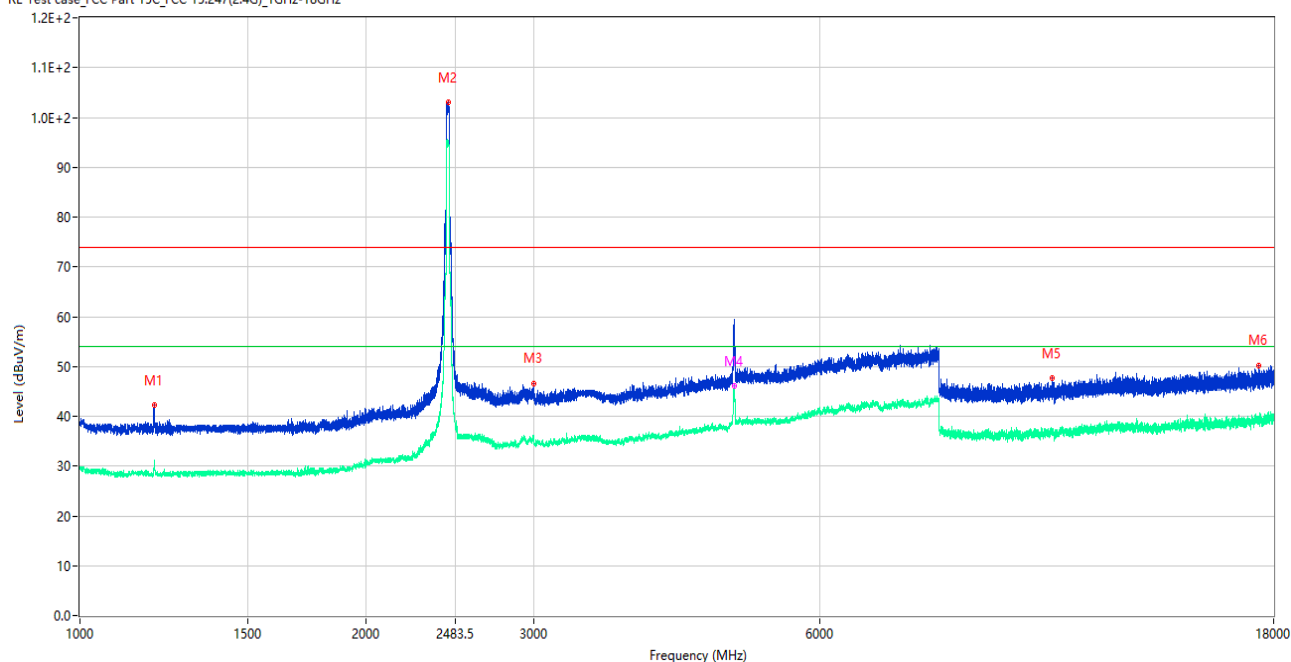
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1196.000	42.59	-15.73	74.0	31.41	Peak	179.00	150	Horizontal	Pass
1**	1196.000	28.26	-15.73	54.0	25.74	AV	179.00	150	Horizontal	Pass
2	2438.500	104.42	-12.37	74.0	-30.42	Peak	45.00	150	Horizontal	N/A
2**	2438.500	95.81	-12.37	54.0	-41.81	AV	45.00	150	Horizontal	N/A
3	2934.000	46.61	-8.07	74.0	27.39	Peak	63.00	150	Horizontal	Pass
3**	2934.000	35.51	-8.07	54.0	18.49	AV	63.00	150	Horizontal	Pass
4	4875.000	53.98	-2.26	74.0	20.02	Peak	307.00	150	Horizontal	Pass
4**	4875.000	44.89	-2.26	54.0	9.11	AV	307.00	150	Horizontal	Pass
5	10500.000	47.54	-3.17	74.0	26.46	Peak	174.00	150	Horizontal	Pass
5**	10500.000	36.52	-3.17	54.0	17.48	AV	174.00	150	Horizontal	Pass
6	17184.000	50.74	0.16	74.0	23.26	Peak	349.00	150	Horizontal	Pass
6**	17184.000	39.27	0.16	54.0	14.73	AV	349.00	150	Horizontal	Pass

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

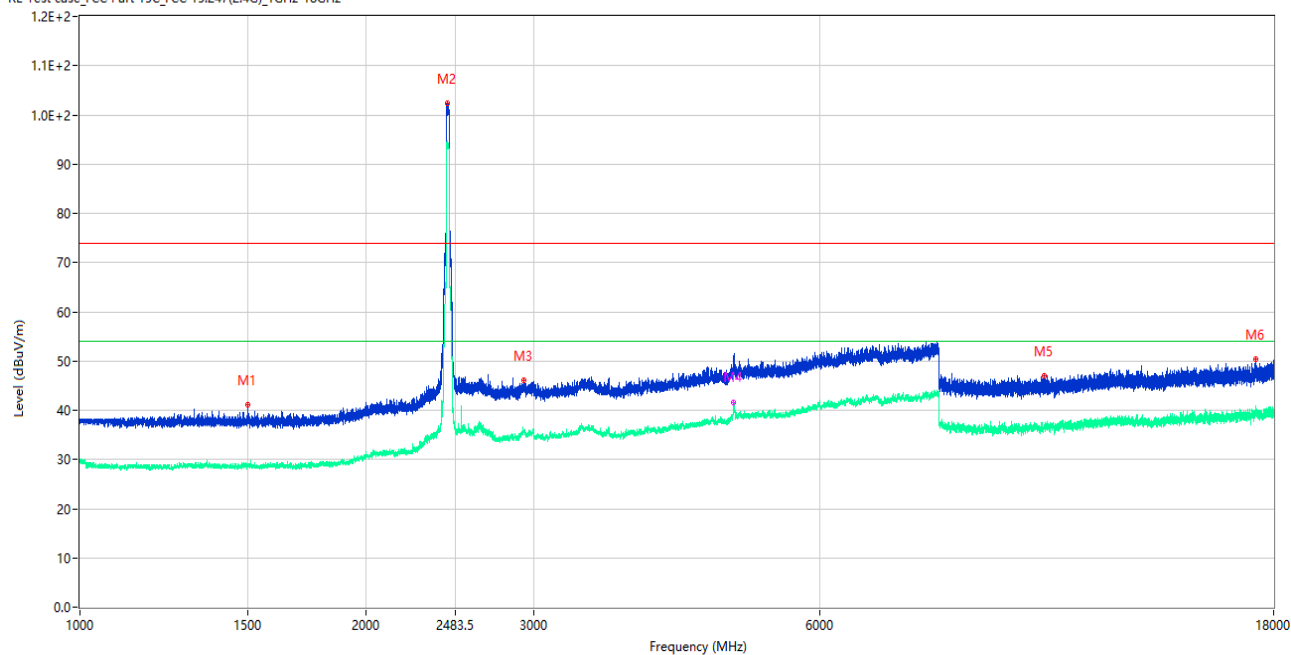
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1198.750	42.33	-15.75	74.0	31.67	Peak	192.00	150	Vertical	Pass
1**	1198.750	29.37	-15.75	54.0	24.63	AV	192.00	150	Vertical	Pass
2	2438.250	102.98	-12.38	74.0	-28.98	Peak	111.00	150	Vertical	N/A
2**	2438.250	95.36	-12.38	54.0	-41.36	AV	111.00	150	Vertical	N/A
3	2999.500	46.66	-8.74	74.0	27.34	Peak	98.00	150	Vertical	Pass
3**	2999.500	36.16	-8.74	54.0	17.84	AV	98.00	150	Vertical	Pass
4	4874.000	54.37	-2.23	74.0	19.63	Peak	360.00	150	Vertical	Pass
4**	4874.000	46.19	-2.23	54.0	7.81	AV	360.00	150	Vertical	Pass
5	10538.000	47.61	-3.18	74.0	26.39	Peak	270.00	150	Vertical	Pass
5**	10538.000	36.94	-3.18	54.0	17.06	AV	270.00	150	Vertical	Pass
6	17370.499	50.28	0.17	74.0	23.72	Peak	360.00	150	Vertical	Pass
6**	17370.499	39.23	0.17	54.0	14.77	AV	360.00	150	Vertical	Pass

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

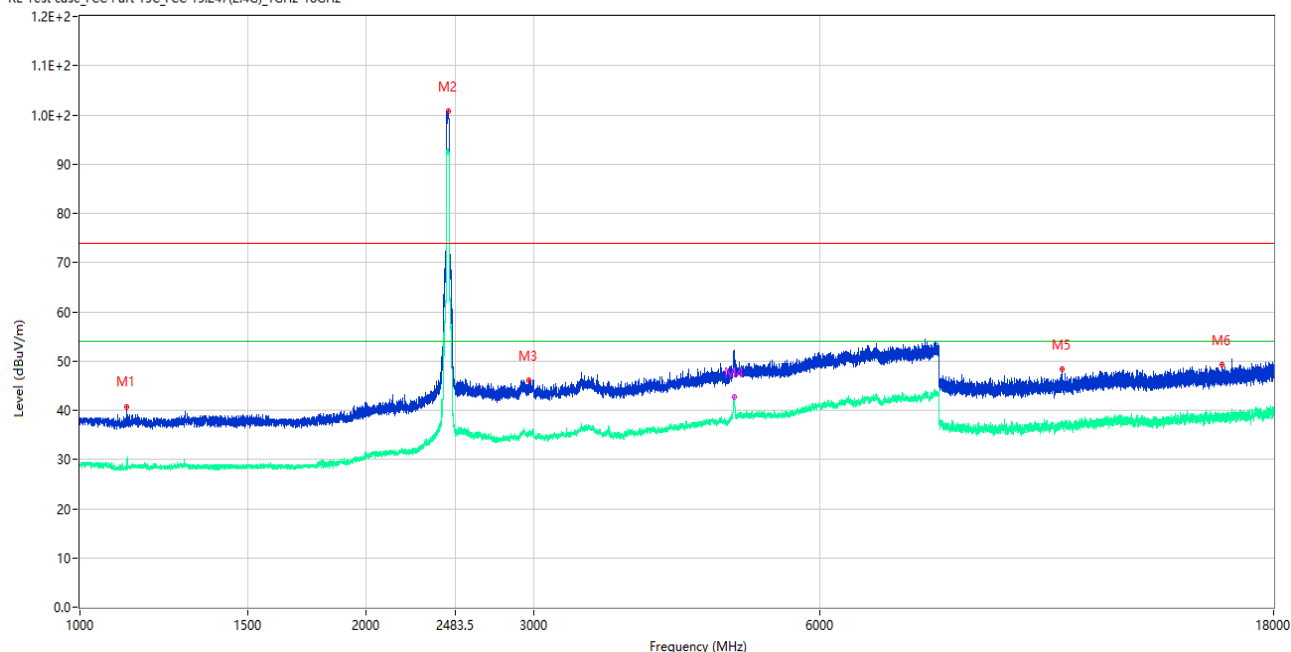
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1502.000	41.12	-16.09	74.0	32.88	Peak	185.00	150	Horizontal	Pass
1**	1502.000	28.93	-16.09	54.0	25.07	AV	185.00	150	Horizontal	Pass
2	2432.750	102.27	-12.30	74.0	-28.27	Peak	40.00	150	Horizontal	N/A
2**	2432.750	94.31	-12.30	54.0	-40.31	AV	40.00	150	Horizontal	N/A
3	2930.000	46.00	-7.95	74.0	28.00	Peak	259.00	150	Horizontal	Pass
3**	2930.000	35.77	-7.95	54.0	18.23	AV	259.00	150	Horizontal	Pass
4	4871.000	48.49	-2.19	74.0	25.51	Peak	360.00	150	Horizontal	Pass
4**	4871.000	41.68	-2.19	54.0	12.32	AV	360.00	150	Horizontal	Pass
5	10323.000	47.07	-3.32	74.0	26.93	Peak	184.00	150	Horizontal	Pass
5**	10323.000	36.32	-3.32	54.0	17.68	AV	184.00	150	Horizontal	Pass
6	17231.000	50.45	-0.38	74.0	23.55	Peak	126.00	150	Horizontal	Pass
6**	17231.000	39.57	-0.38	54.0	14.43	AV	126.00	150	Horizontal	Pass

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

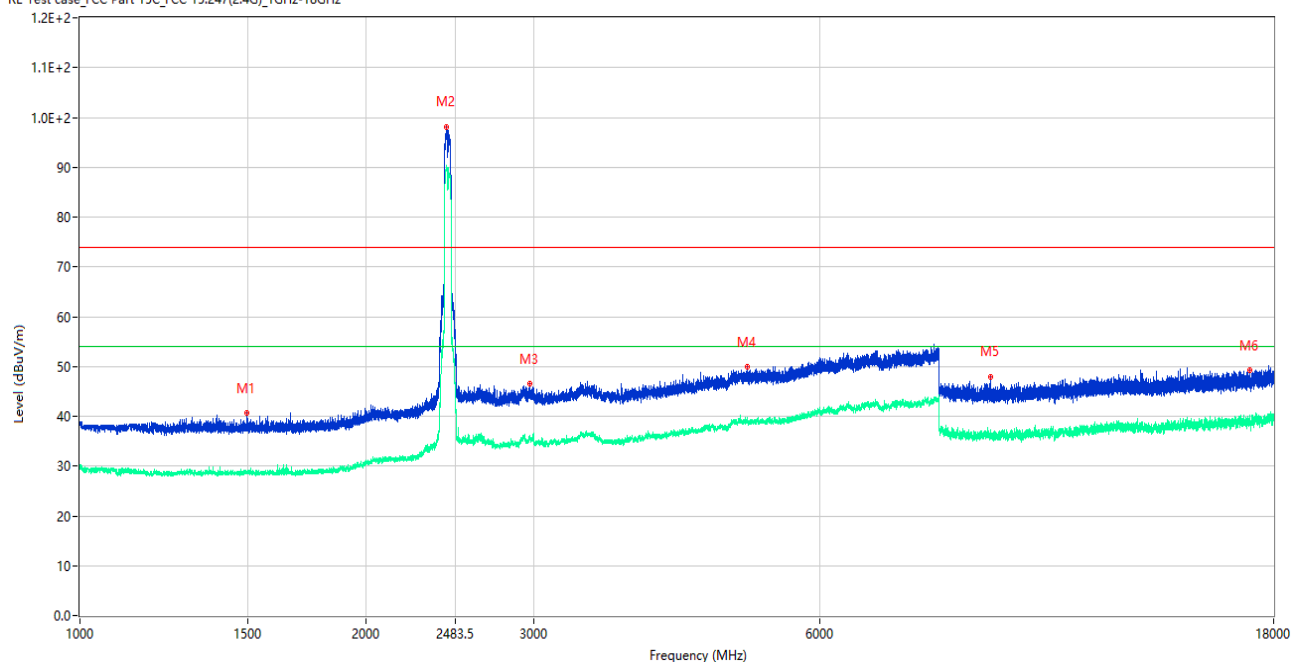
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1120.250	40.73	-15.75	74.0	33.27	Peak	72.00	150	Vertical	Pass
1**	1120.250	28.88	-15.75	54.0	25.12	AV	72.00	150	Vertical	Pass
2	2438.500	100.81	-12.37	74.0	-26.81	Peak	197.00	150	Vertical	N/A
2**	2438.500	93.04	-12.37	54.0	-39.04	AV	197.00	150	Vertical	N/A
3	2965.000	46.15	-8.57	74.0	27.85	Peak	87.00	150	Vertical	Pass
3**	2965.000	35.08	-8.57	54.0	18.92	AV	87.00	150	Vertical	Pass
4	4878.000	52.11	-2.25	74.0	21.89	Peak	0.00	150	Vertical	Pass
4**	4878.000	42.75	-2.25	54.0	11.25	AV	0.00	150	Vertical	Pass
5	10772.500	48.25	-3.12	74.0	25.75	Peak	31.00	150	Vertical	Pass
5**	10772.500	37.25	-3.12	54.0	16.75	AV	31.00	150	Vertical	Pass
6	15879.999	49.28	-1.46	74.0	24.72	Peak	90.00	150	Vertical	Pass
6**	15879.999	38.93	-1.46	54.0	15.07	AV	90.00	150	Vertical	Pass

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

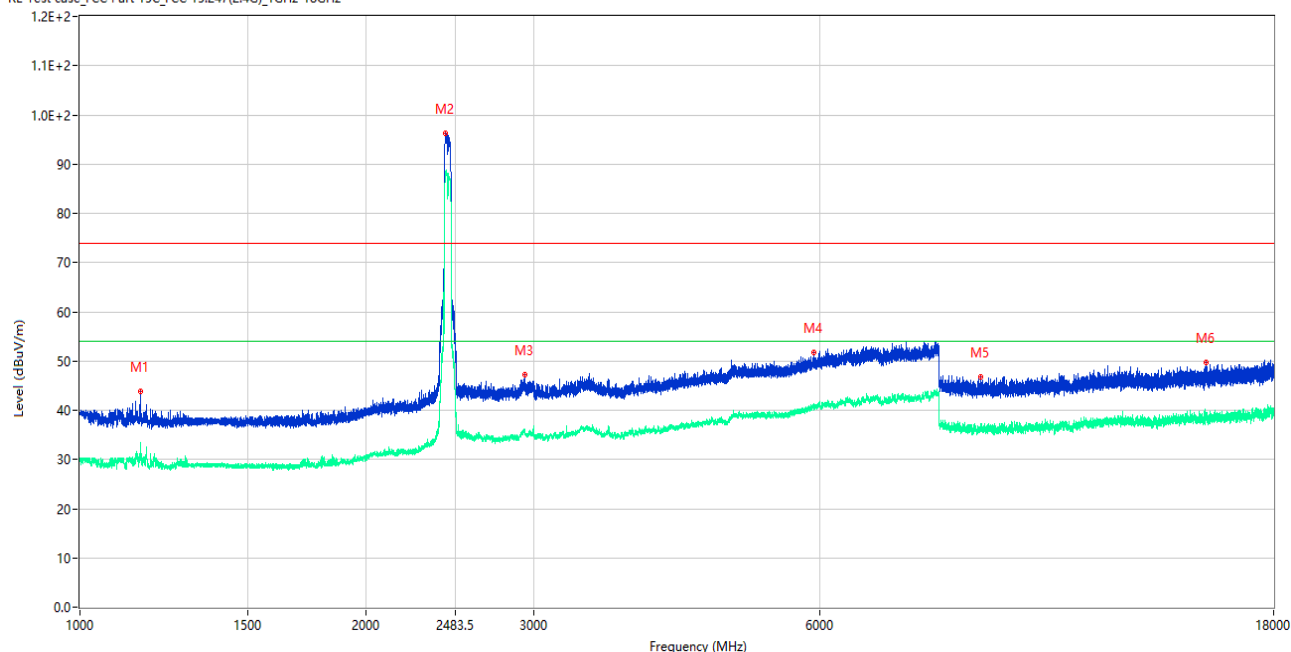
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1499.500	40.58	-16.14	74.0	33.42	Peak	212.00	150	Horizontal	Pass
1**	1499.500	28.76	-16.14	54.0	25.24	AV	212.00	150	Horizontal	Pass
2	2428.750	98.18	-12.26	74.0	-24.18	Peak	40.00	150	Horizontal	N/A
2**	2428.750	90.43	-12.26	54.0	-36.43	AV	40.00	150	Horizontal	N/A
3	2972.750	46.46	-8.53	74.0	27.54	Peak	307.00	150	Horizontal	Pass
3**	2972.750	35.29	-8.53	54.0	18.71	AV	307.00	150	Horizontal	Pass
4	5034.000	49.88	-2.22	74.0	24.12	Peak	160.00	150	Horizontal	Pass
4**	5034.000	38.88	-2.22	54.0	15.12	AV	160.00	150	Horizontal	Pass
5	9069.500	48.01	-4.57	74.0	25.99	Peak	294.00	150	Horizontal	Pass
5**	9069.500	36.05	-4.57	54.0	17.95	AV	294.00	150	Horizontal	Pass
6	16980.500	49.22	-1.14	74.0	24.78	Peak	350.00	150	Horizontal	Pass
6**	16980.500	39.60	-1.14	54.0	14.40	AV	350.00	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	1156.750	43.73	-15.58	74.0	30.27	Peak	175.00	150	Vertical	Pass
1**	1156.750	30.46	-15.58	54.0	23.54	AV	175.00	150	Vertical	Pass
2	2425.500	96.33	-12.27	74.0	-22.33	Peak	259.00	150	Vertical	N/A
2**	2425.500	88.49	-12.27	54.0	-34.49	AV	259.00	150	Vertical	N/A
3	2933.250	47.20	-8.03	74.0	26.80	Peak	0.00	150	Vertical	Pass
3**	2933.250	35.97	-8.03	54.0	18.03	AV	0.00	150	Vertical	Pass
4	5906.000	51.72	-0.23	74.0	22.28	Peak	221.00	150	Vertical	Pass
4**	5906.000	40.42	-0.23	54.0	13.58	AV	221.00	150	Vertical	Pass
5	8853.500	46.79	-4.79	74.0	27.21	Peak	211.00	150	Vertical	Pass
5**	8853.500	35.93	-4.79	54.0	18.07	AV	211.00	150	Vertical	Pass
6	15270.500	49.75	-1.28	74.0	24.25	Peak	0.00	150	Vertical	Pass
6**	15270.500	38.95	-1.28	54.0	15.05	AV	0.00	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.

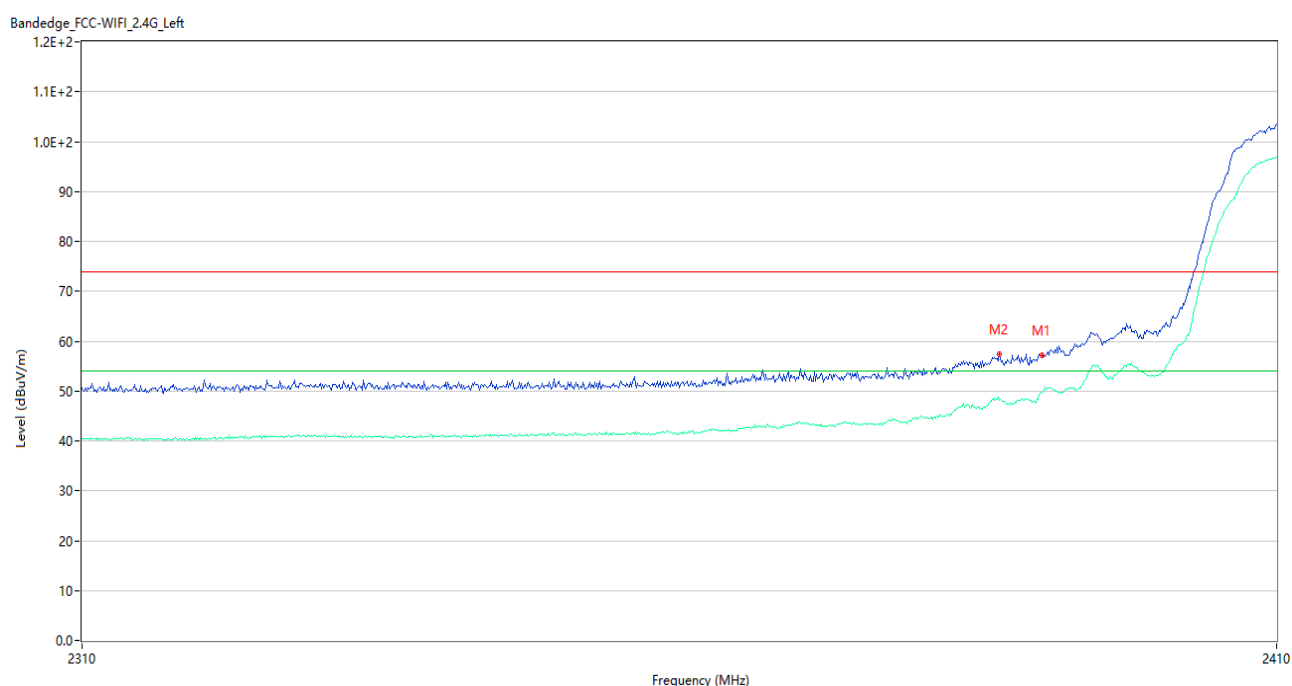
Note 2: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

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 antenna were pre tested, but only the worst case has been reported in this report.

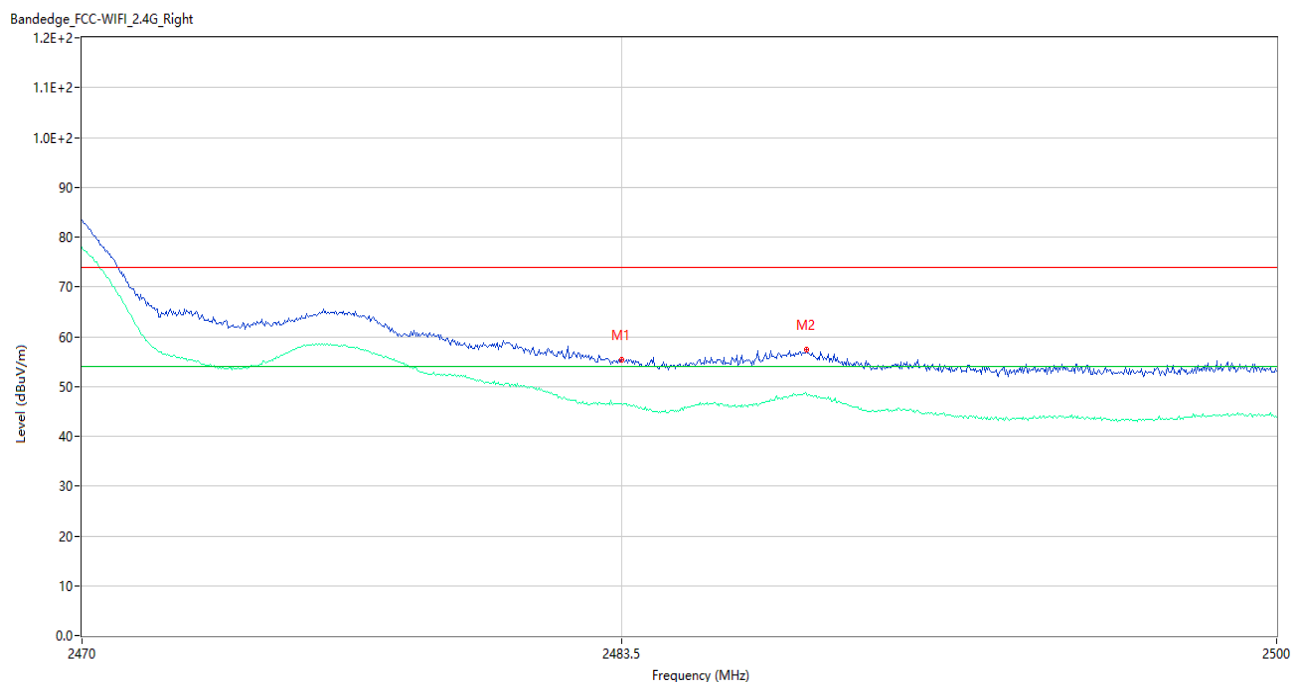
Test Data and Plots

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	57.13	-4.87	74.0	16.87	Peak	255.83	150	Vertical	Pass
1**	2390.000	49.77	-4.87	54.0	4.23	AV	255.83	150	Vertical	Pass
2	2386.400	57.36	-4.66	74.0	16.64	Peak	210.00	150	Vertical	Pass
2**	2386.400	48.09	-4.66	54.0	5.91	AV	210.00	150	Vertical	Pass

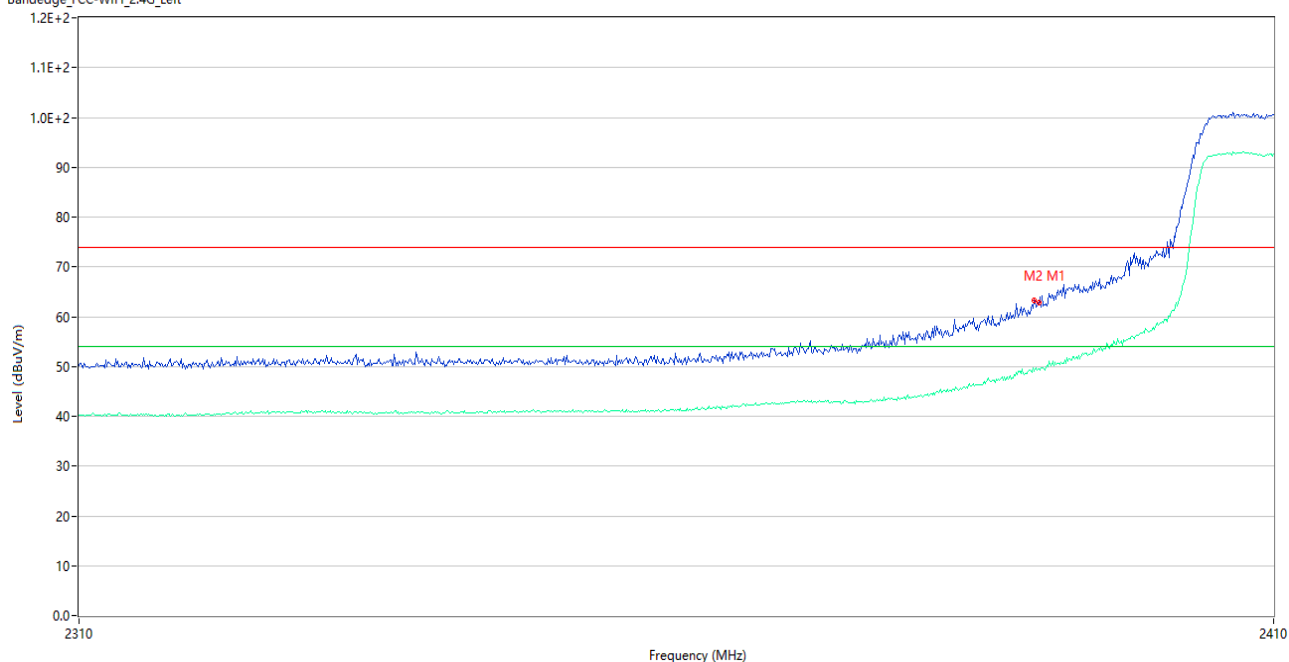
802.11b HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	55.36	-3.78	74.0	18.64	Peak	256.00	150	Vertical	Pass
1**	2483.500	46.63	-3.78	54.0	7.37	AV	256.00	150	Vertical	Pass
2	2488.150	57.45	-3.81	74.0	16.55	Peak	247.00	150	Vertical	Pass
2**	2488.150	48.63	-3.81	54.0	5.37	AV	247.00	150	Vertical	Pass

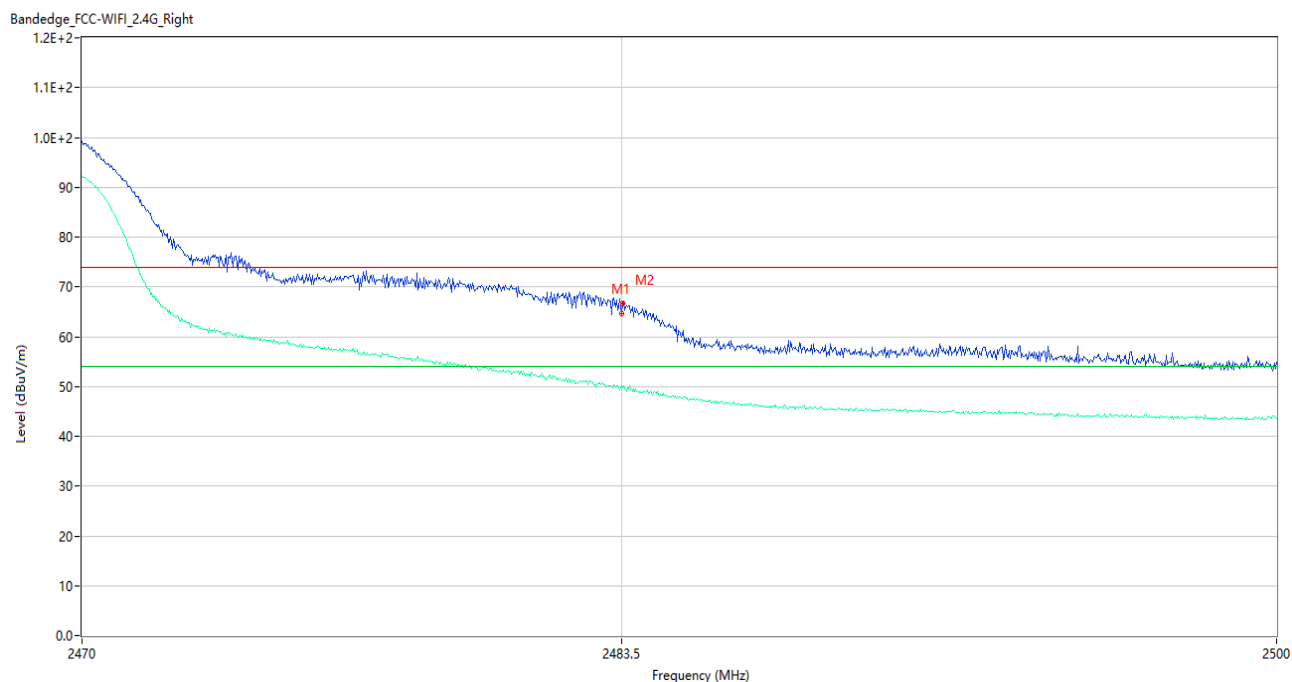
802.11g LOW CHANNEL

Bandedge_FCC-WIFI_2.4G_Left



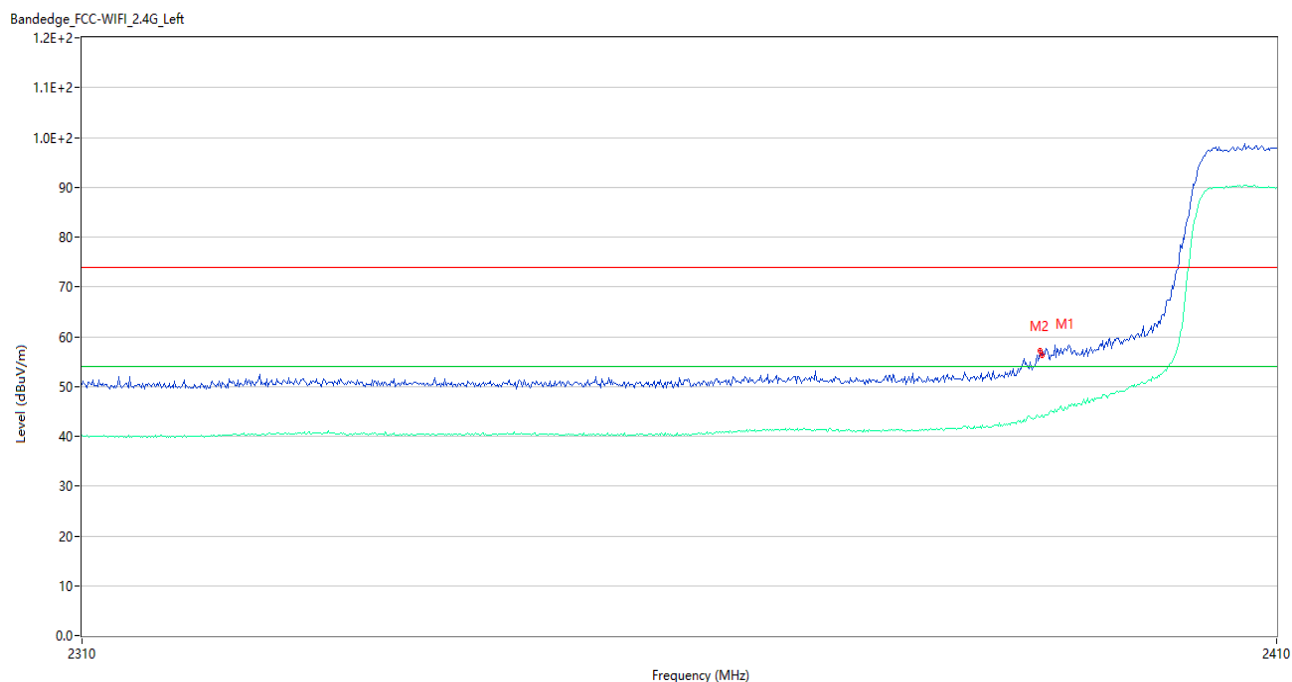
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	62.94	-4.87	74.0	11.06	Peak	209.87	150	Vertical	Pass
1**	2390.000	49.47	-4.87	54.0	4.53	AV	209.87	150	Vertical	Pass
2	2389.600	63.25	-4.85	74.0	10.75	Peak	210.00	150	Vertical	Pass
2**	2389.600	49.11	-4.85	54.0	4.89	AV	210.00	150	Vertical	Pass

802.11g HIGH CHANNEL



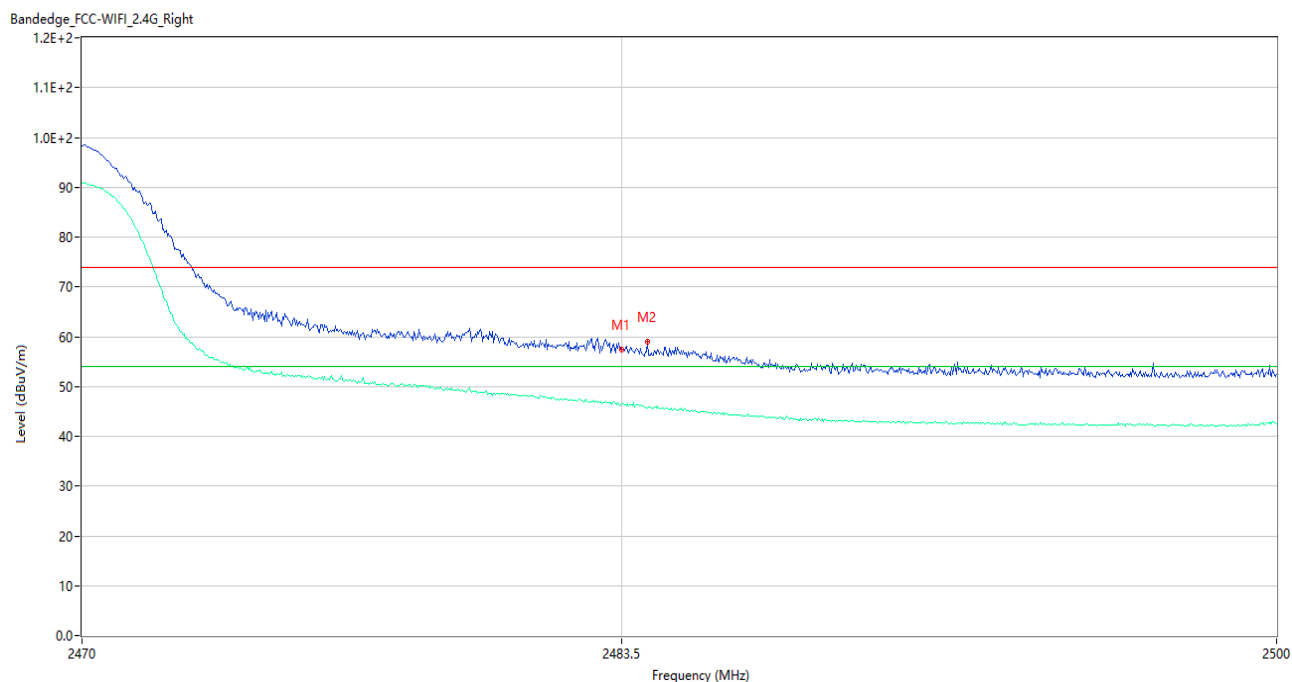
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	64.64	-3.78	74.0	9.36	Peak	319.00	150	Horizontal	Pass
1**	2483.500	50.21	-3.78	54.0	3.79	AV	319.00	150	Horizontal	Pass
2	2483.530	66.75	-3.78	74.0	7.25	Peak	348.00	150	Horizontal	Pass
2**	2483.530	49.68	-3.78	54.0	4.32	AV	348.00	150	Horizontal	Pass

802.11n20 LOW CHANNEL



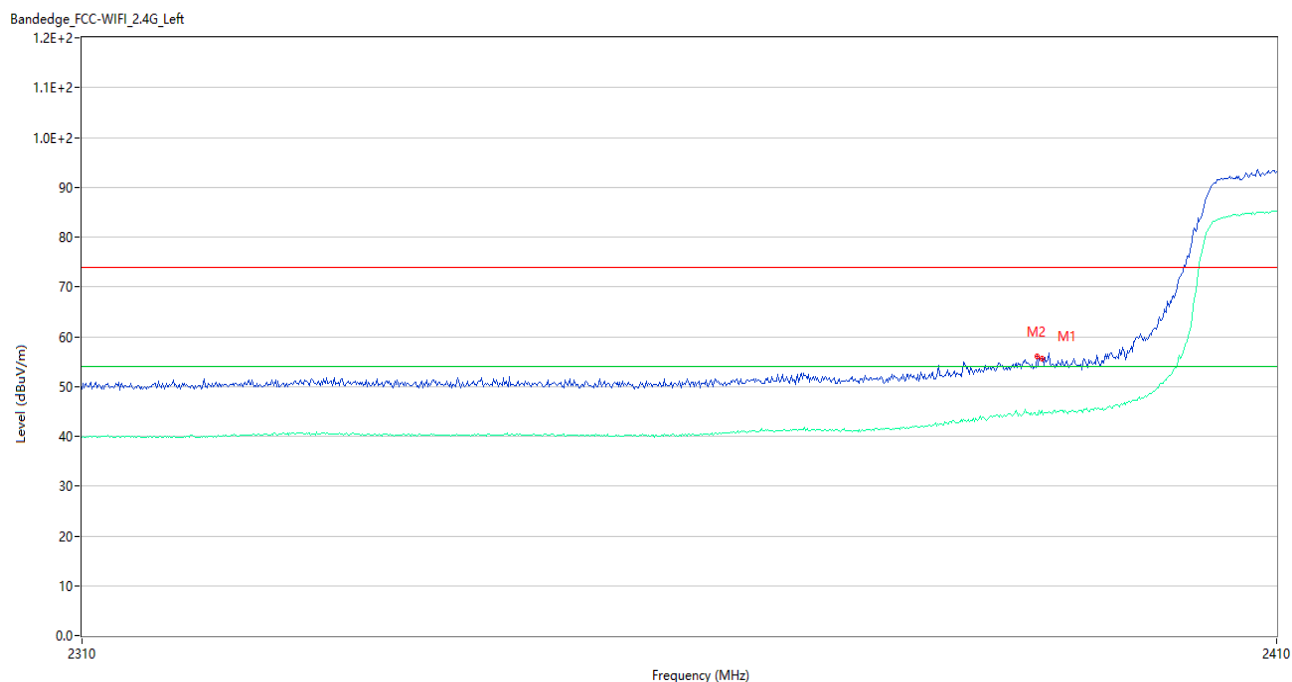
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	56.38	-4.87	74.0	17.62	Peak	106.01	150	Horizontal	Pass
1**	2390.000	44.25	-4.87	54.0	9.75	AV	106.01	150	Horizontal	Pass
2	2389.900	57.19	-4.87	74.0	16.81	Peak	114.00	150	Horizontal	Pass
2**	2389.900	43.83	-4.87	54.0	10.17	AV	114.00	150	Horizontal	Pass

802.11n20 HIGH CHANNEL



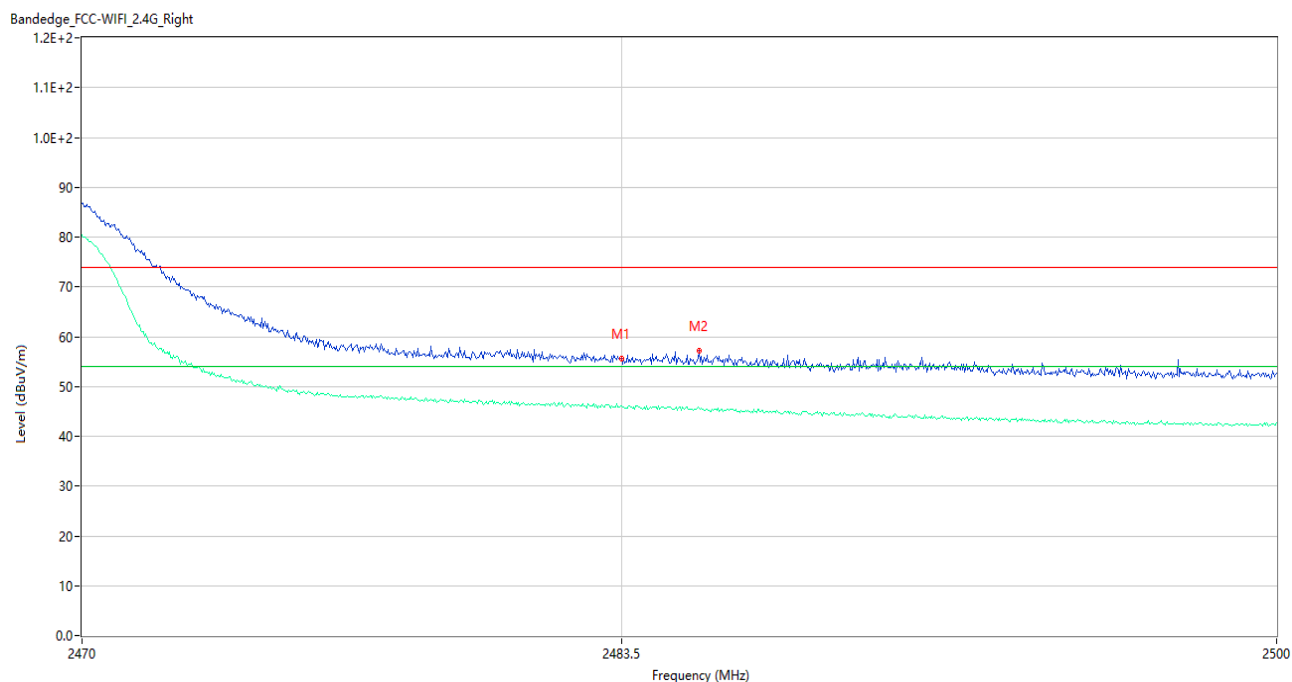
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	57.45	-3.78	74.0	16.55	Peak	0.00	150	Vertical	Pass
1**	2483.500	46.50	-3.78	54.0	7.50	AV	0.00	150	Vertical	Pass
2	2484.160	58.87	-3.78	74.0	15.13	Peak	306.00	150	Vertical	Pass
2**	2484.160	45.62	-3.78	54.0	8.38	AV	306.00	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	55.53	-4.87	74.0	18.47	Peak	258.93	150	Horizontal	Pass
1**	2390.000	45.16	-4.87	54.0	8.84	AV	258.93	150	Horizontal	Pass
2	2389.600	55.96	-4.85	74.0	18.04	Peak	209.00	150	Horizontal	Pass
2**	2389.600	44.37	-4.85	54.0	9.63	AV	209.00	150	Horizontal	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	55.52	-3.78	74.0	18.48	Peak	198.00	150	Horizontal	Pass
1**	2483.500	46.13	-3.78	54.0	7.87	AV	198.00	150	Horizontal	Pass
2	2485.450	57.10	-3.78	74.0	16.90	Peak	198.00	150	Horizontal	Pass
2**	2485.450	45.56	-3.78	54.0	8.44	AV	198.00	150	Horizontal	Pass

A.8 Power Spectral Density (PSD)

Test Data

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-7.73	8
Middle	-7.84	8
High	-8.12	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-11.38	8
Middle	-11.11	8
High	-10.39	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-13.17	8
Middle	-13.12	8
High	-13.98	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-17.89	8
Middle	-18.27	8
High	-18.28	8

Test Plots

802.11b LOW CHANNEL



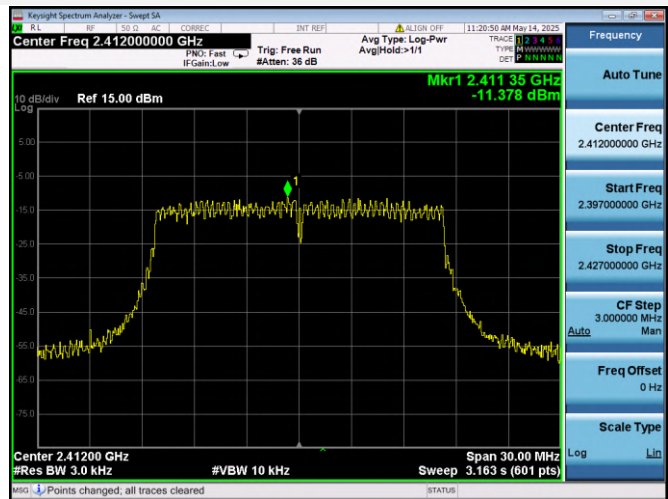
802.11b MIDDLE CHANNEL



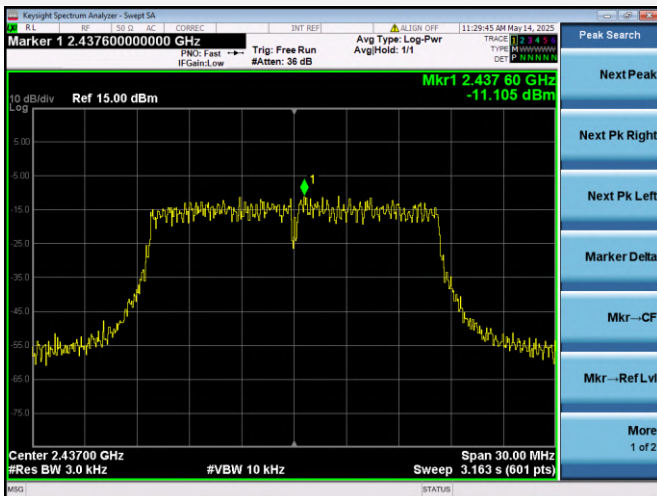
802.11b HIGH CHANNEL



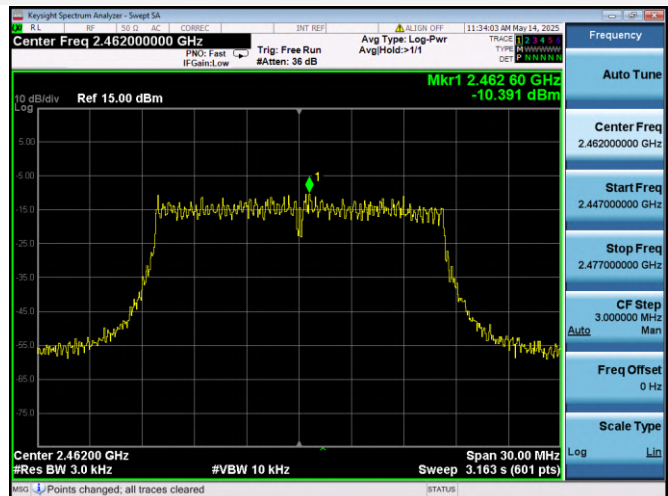
802.11g LOW CHANNEL



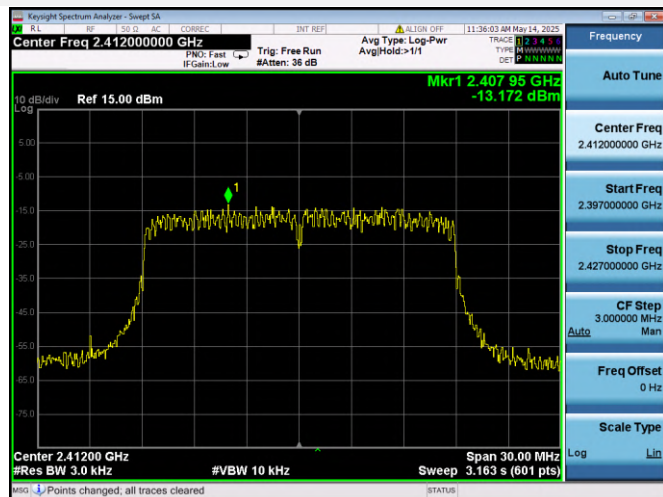
802.11g MIDDLE CHANNEL



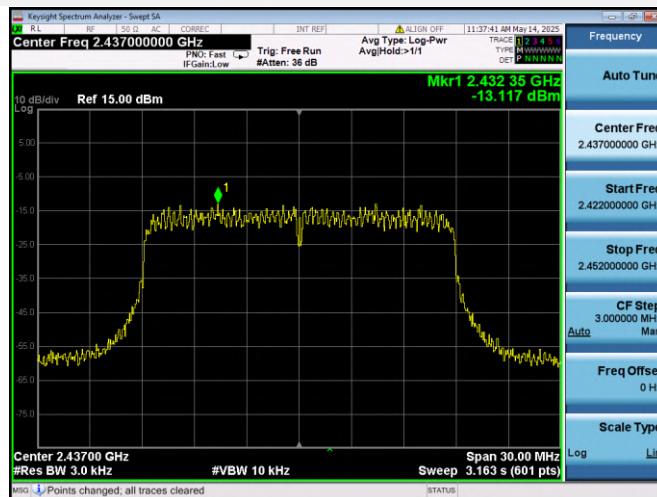
802.11g HIGH CHANNEL



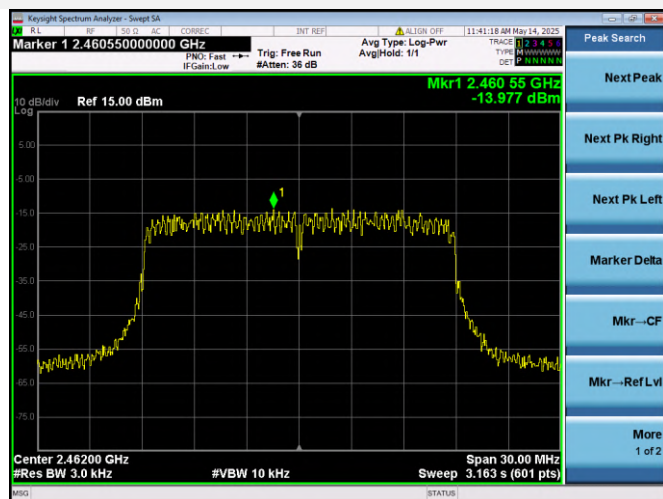
802.11n-20 MHz LOW CHANNEL



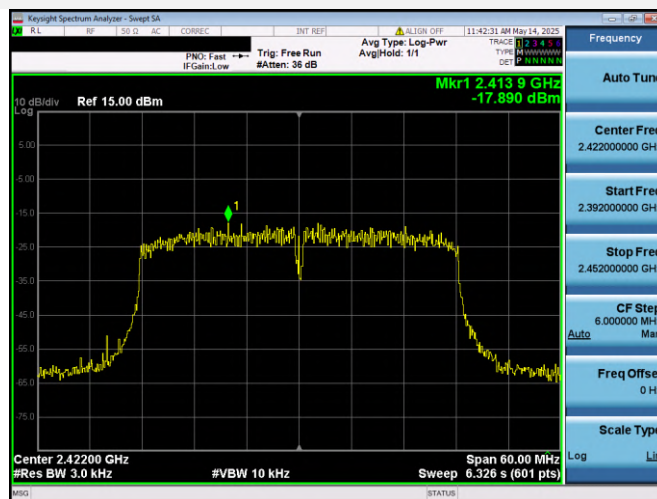
802.11n-20 MHz MIDDLE CHANNEL



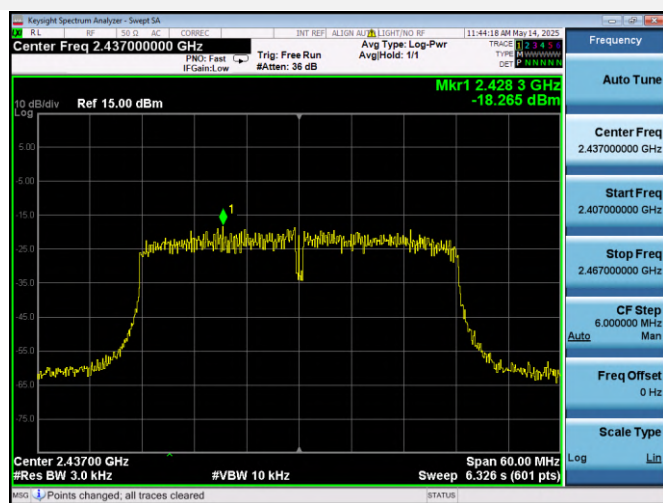
802.11n-20 MHz HIGH CHANNEL



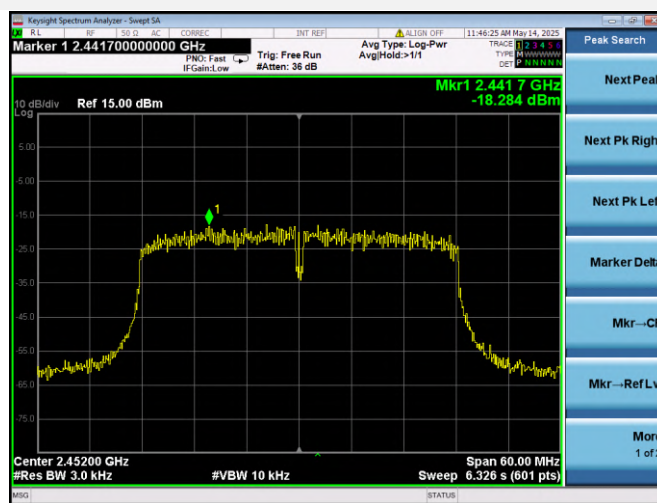
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH2540444-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH2540444-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH2540444-AI.PDF”.

Statement

1. The Testing Center guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. For the report with Accreditation Symbol, the items marked with "☆" are not within the accredited scope.
3. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the test report stamp.
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6. Any objection shall be raised to the Testing Center within 30 days after receiving the report.

--END OF REPORT--