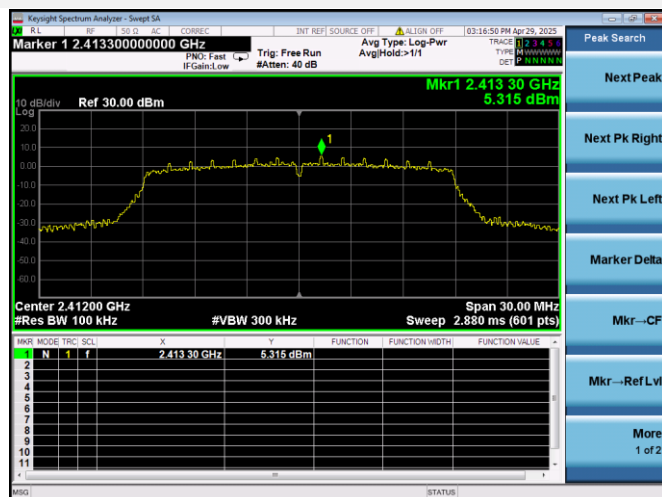
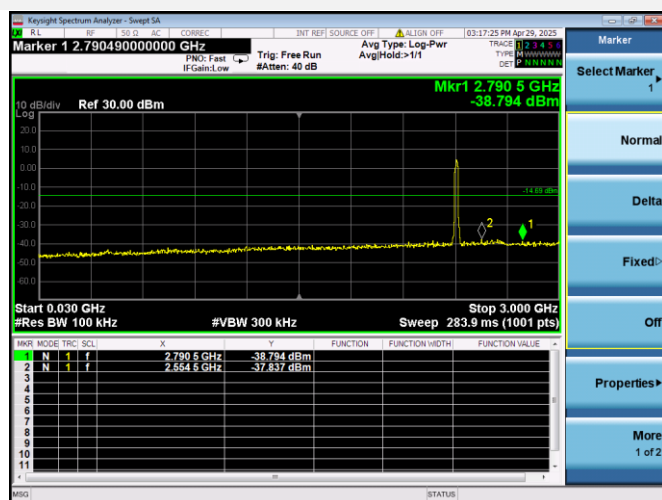
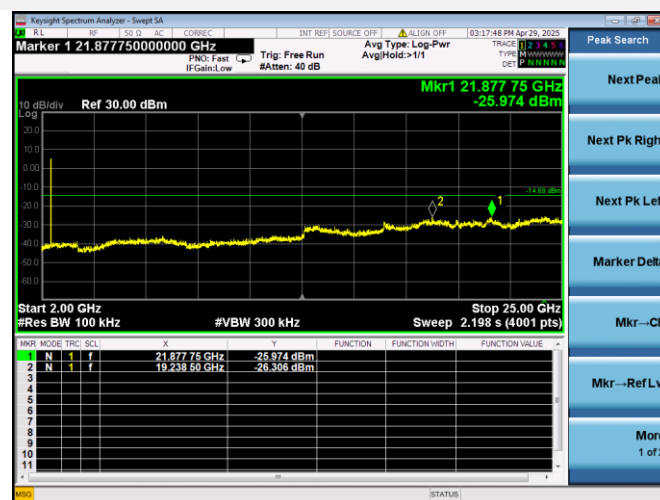
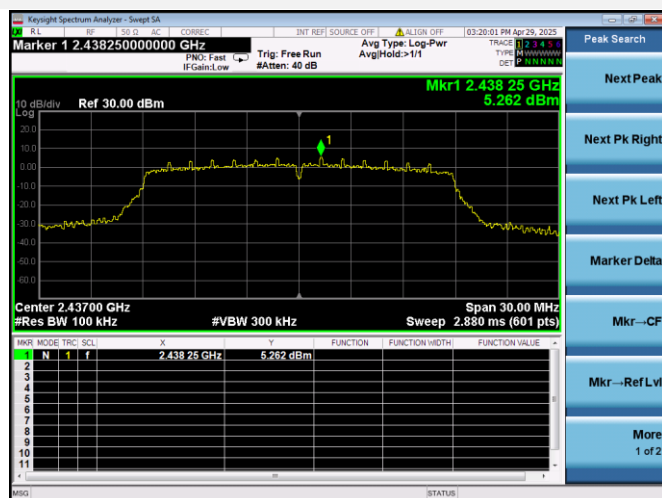


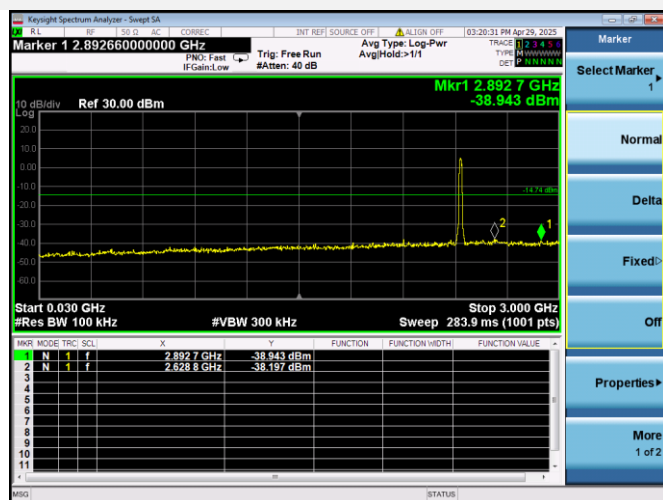
802.11n-20 MHz LOW CHANNEL CARRIER LEVEL

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

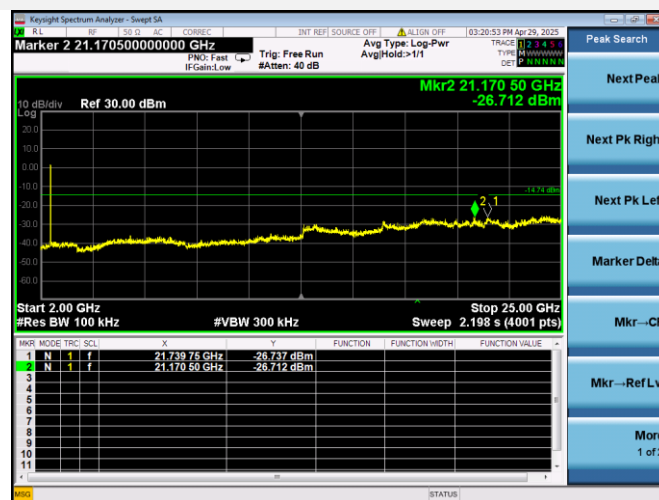
802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL



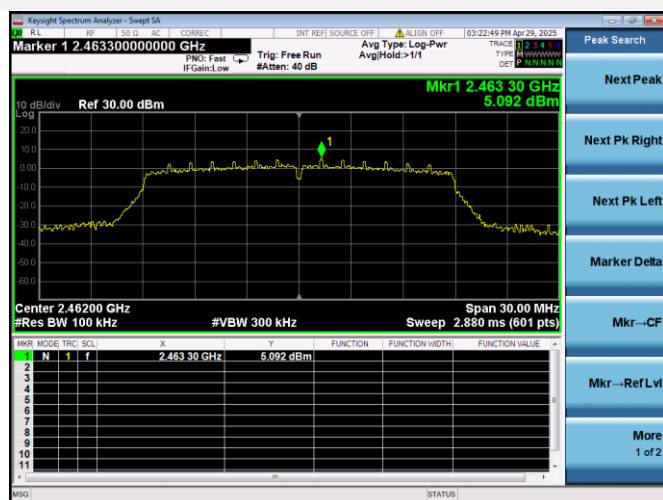
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



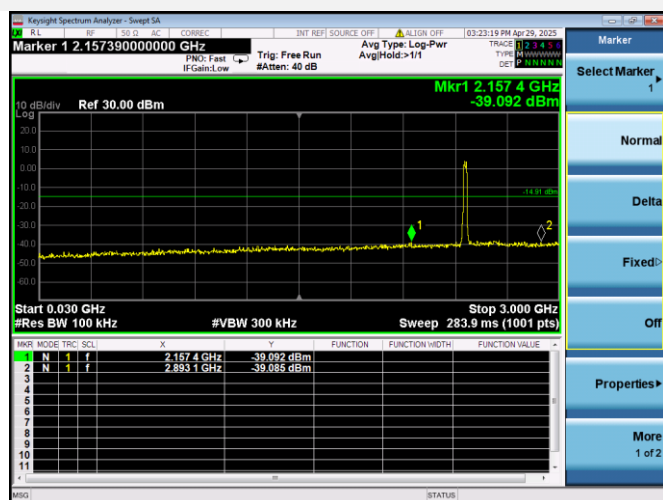
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



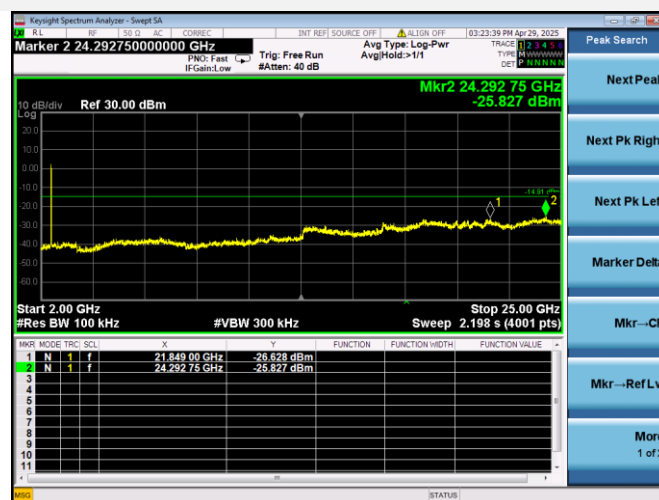
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



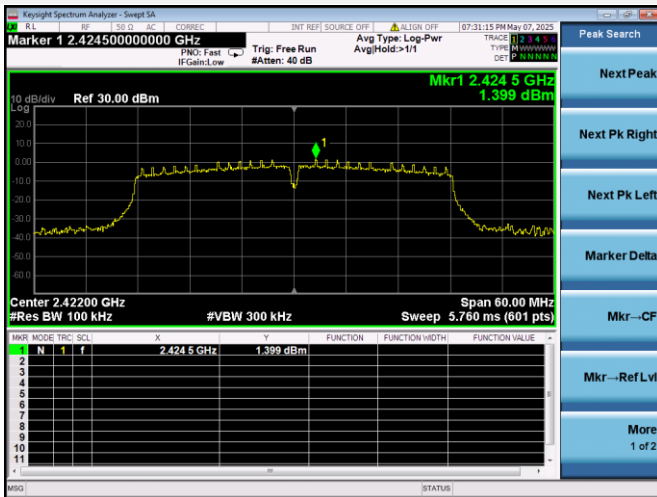
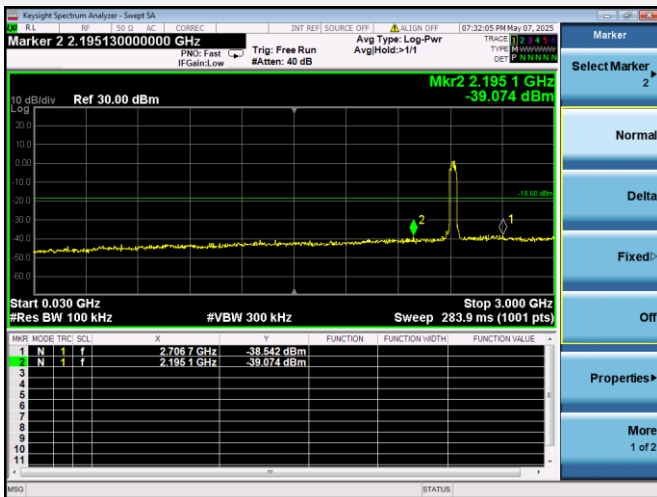
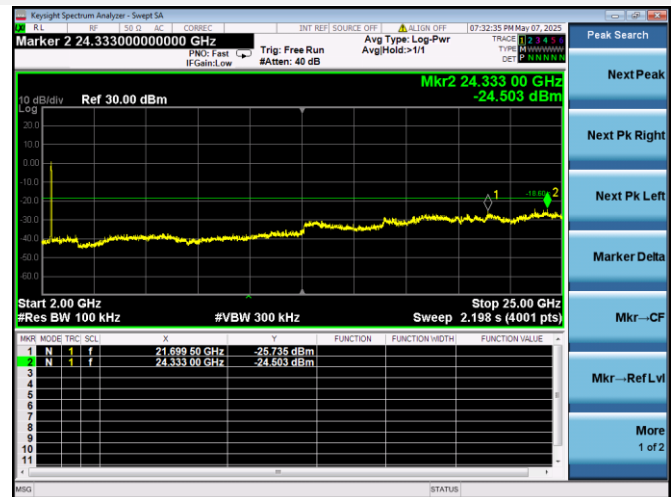
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



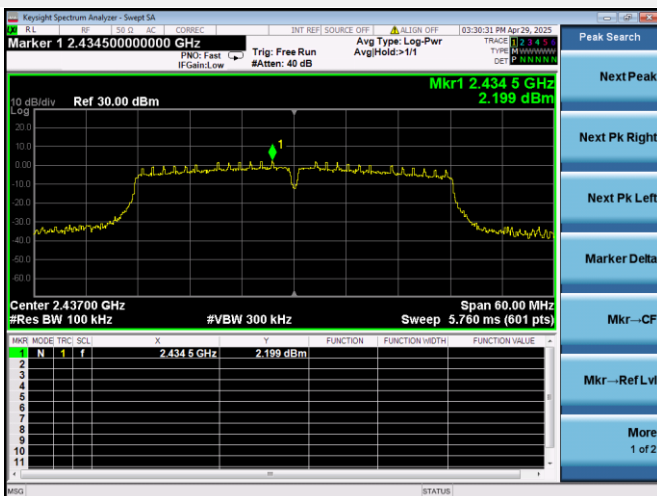
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



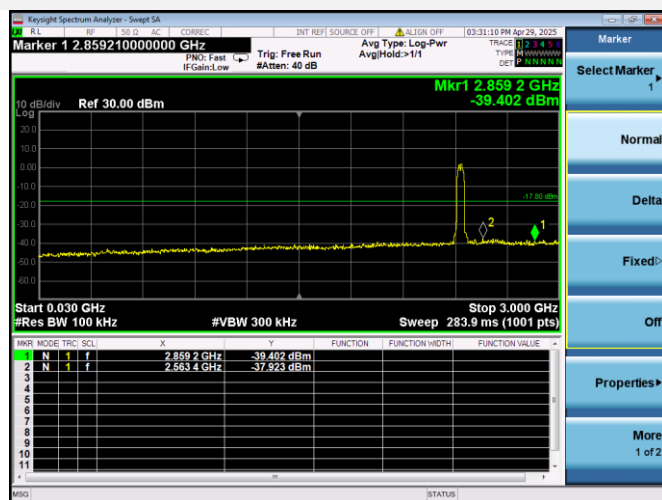
802.11n-40 MHz LOW CHANNEL CARRIER LEVEL

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

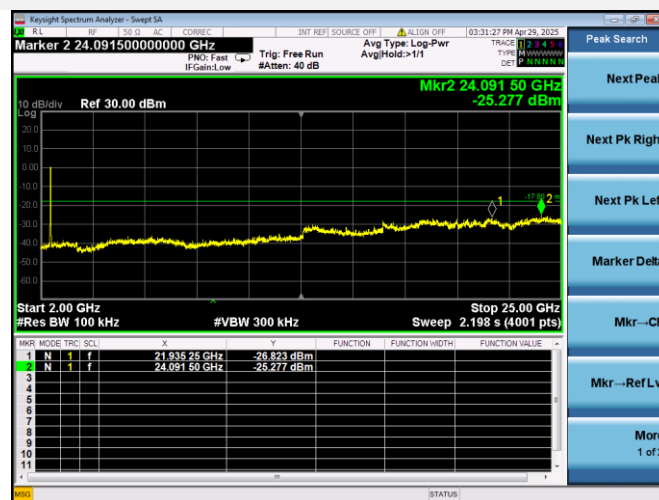
802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL



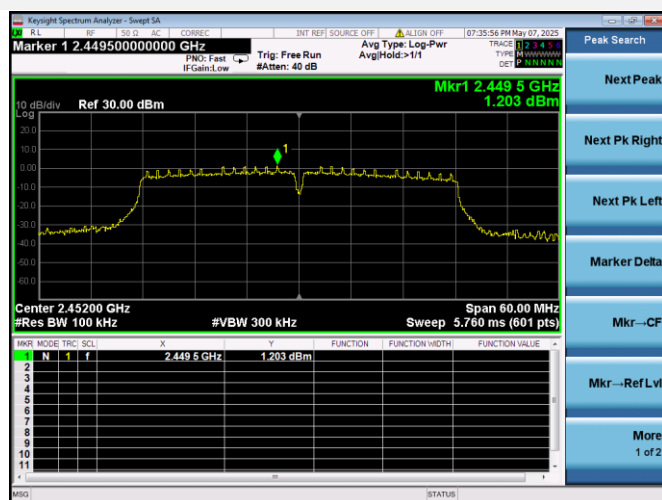
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



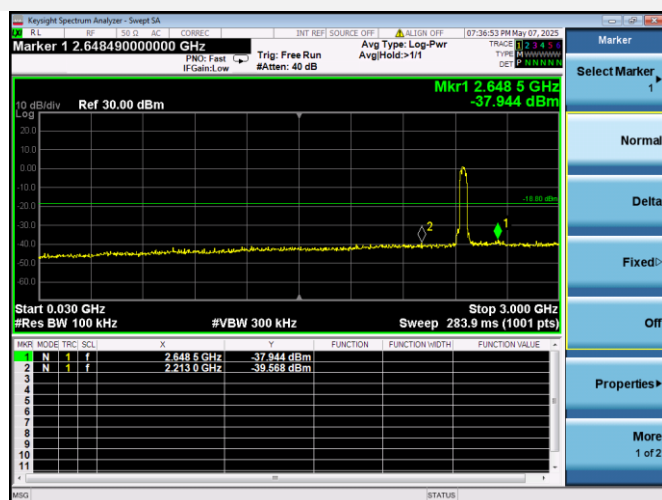
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



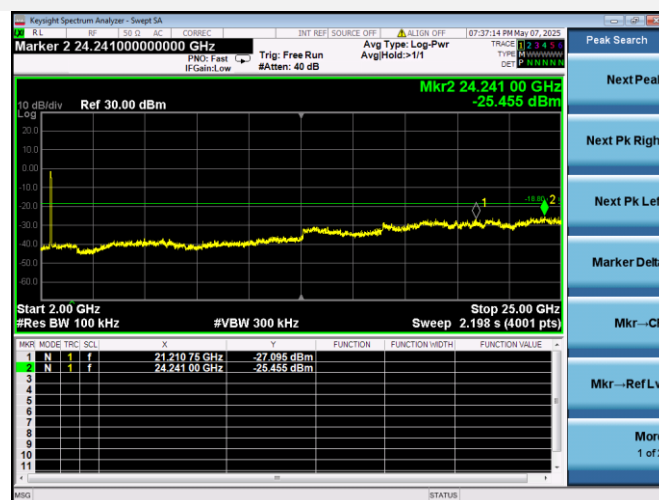
802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



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 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	-54.34	5.26	-14.74	Pass
High	-47.24	5.42	-14.58	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-36.36	5.91	-14.09	Pass
High	-43.39	5.78	-14.22	Pass

802.11n-20 MHz Mode:

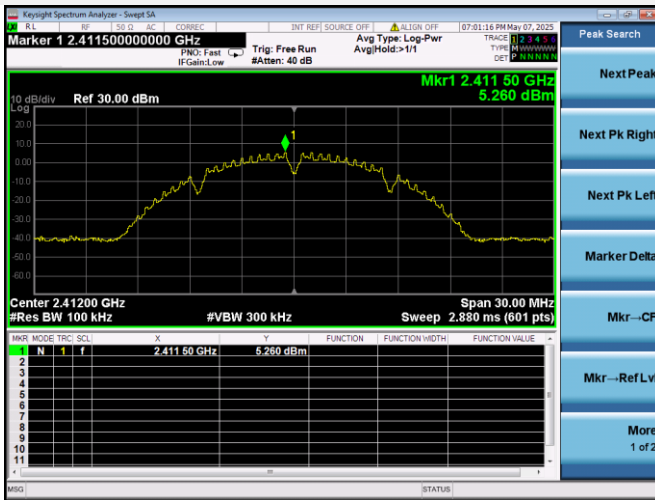
Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-37.87	5.31	-14.69	Pass
High	-43.20	5.09	-14.91	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-42.51	1.40	-18.60	Pass
High	-37.25	1.20	-18.80	Pass

Test Plots

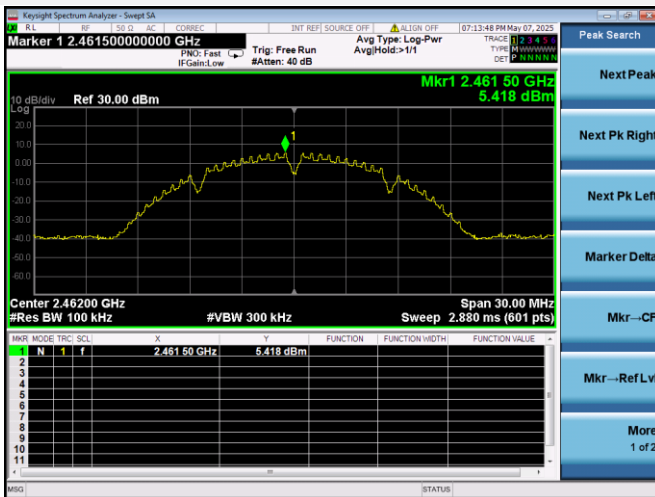
802.11b LOW CHANNEL, CARRIER LEVEL



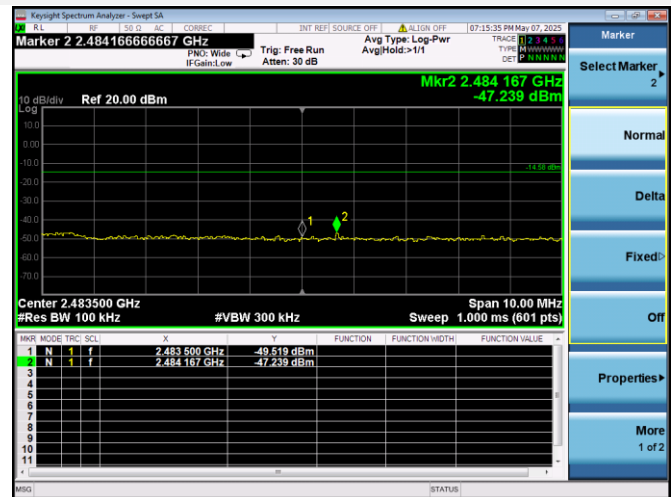
802.11b LOW CHANNEL, BAND EDGE



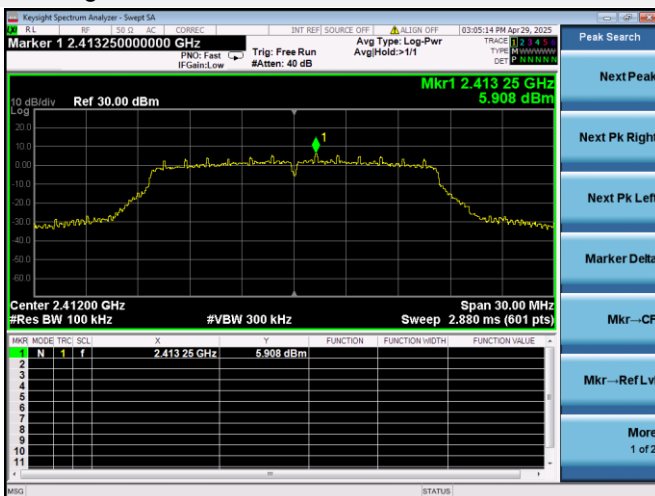
802.11b HIGH CHANNEL, CARRIER LEVEL



802.11b HIGH CHANNEL, BAND EDGE



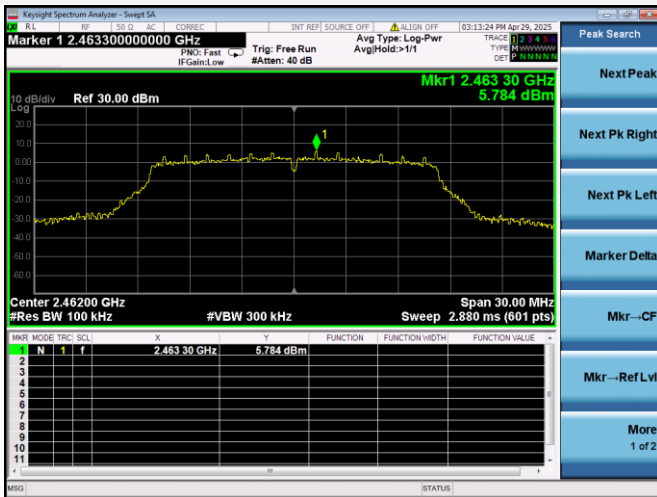
802.11g LOW CHANNEL, CARRIER LEVEL



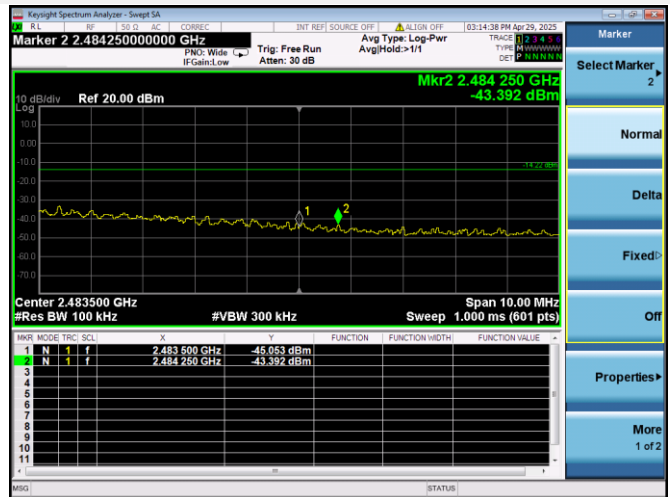
802.11g LOW CHANNEL, BAND EDGE



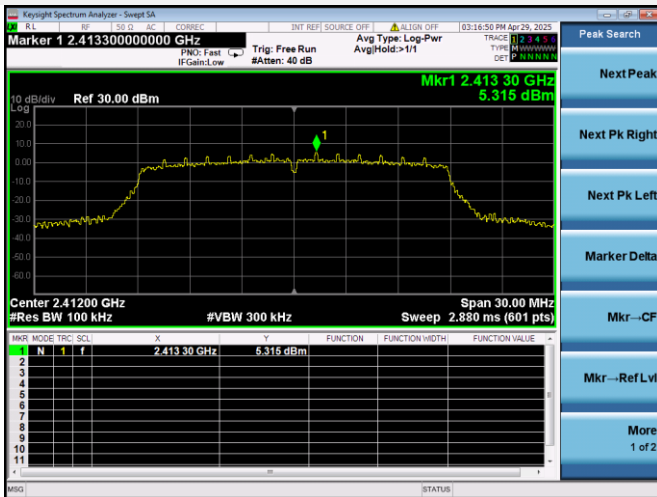
802.11g HIGH CHANNEL, CARRIER LEVEL



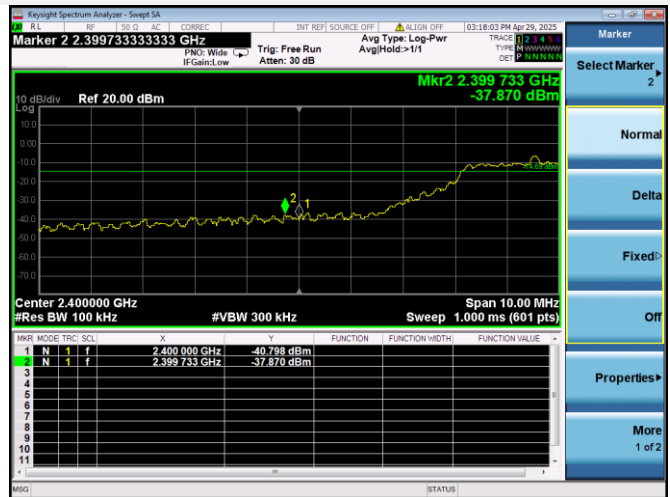
802.11g HIGH CHANNEL, BAND EDGE



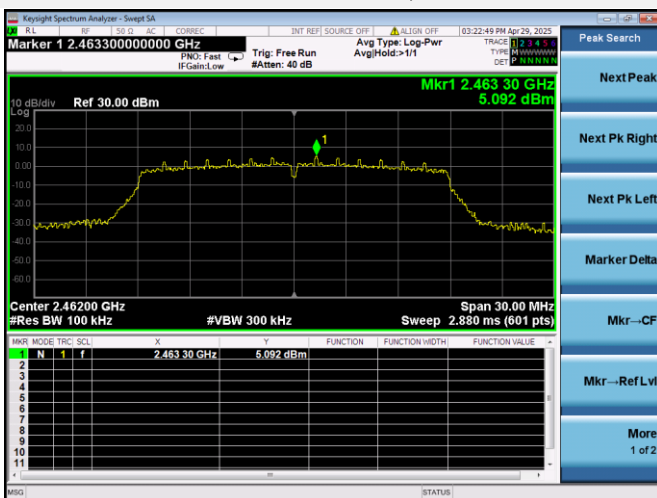
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



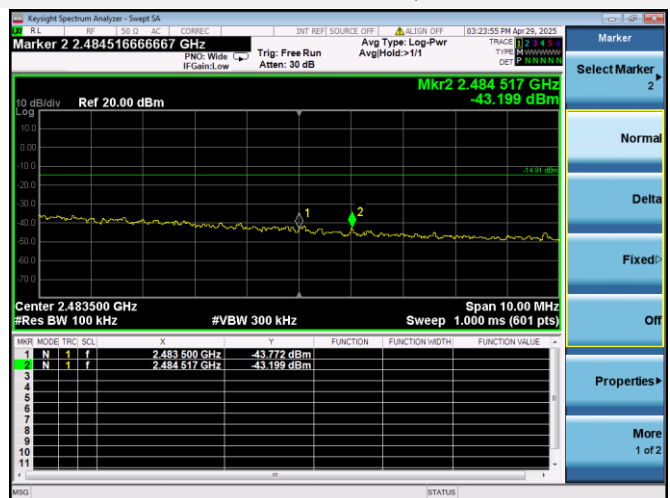
802.11n-20 MHz LOW CHANNEL, BAND EDGE



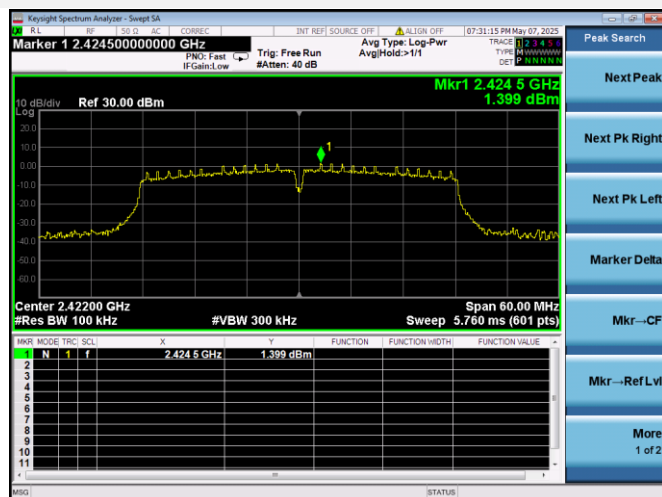
802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



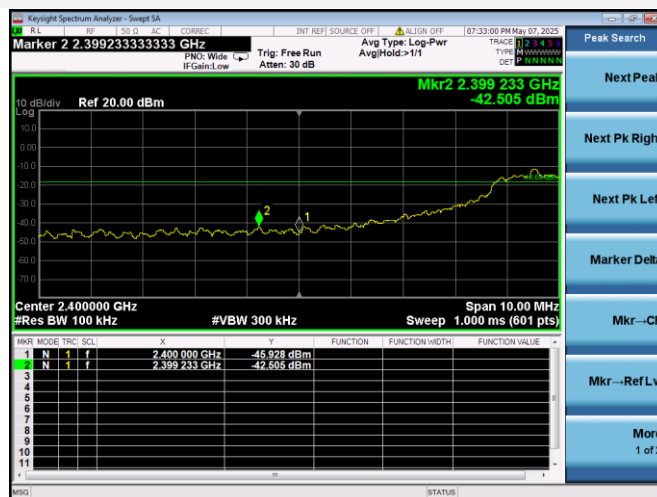
802.11n-20 MHz HIGH CHANNEL, BAND EDGE



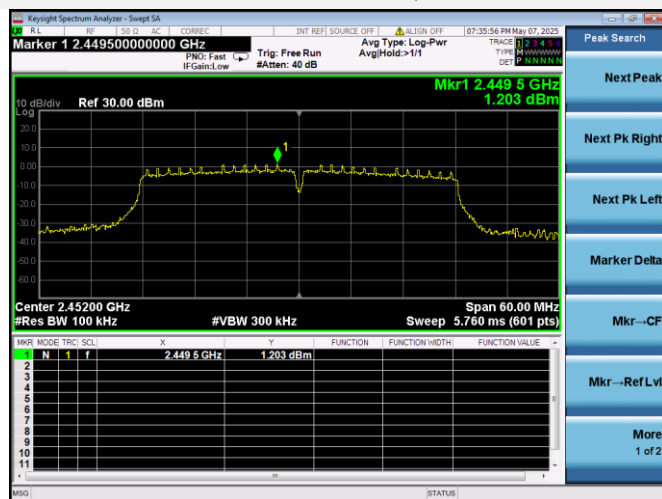
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



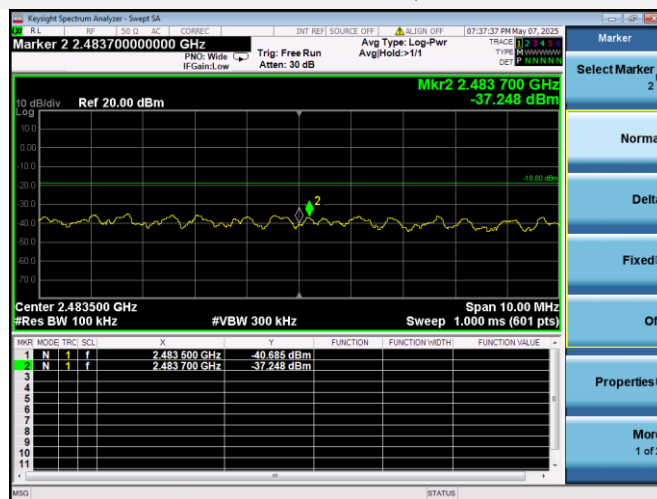
802.11n-40 MHz LOW CHANNEL, BAND EDGE



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.

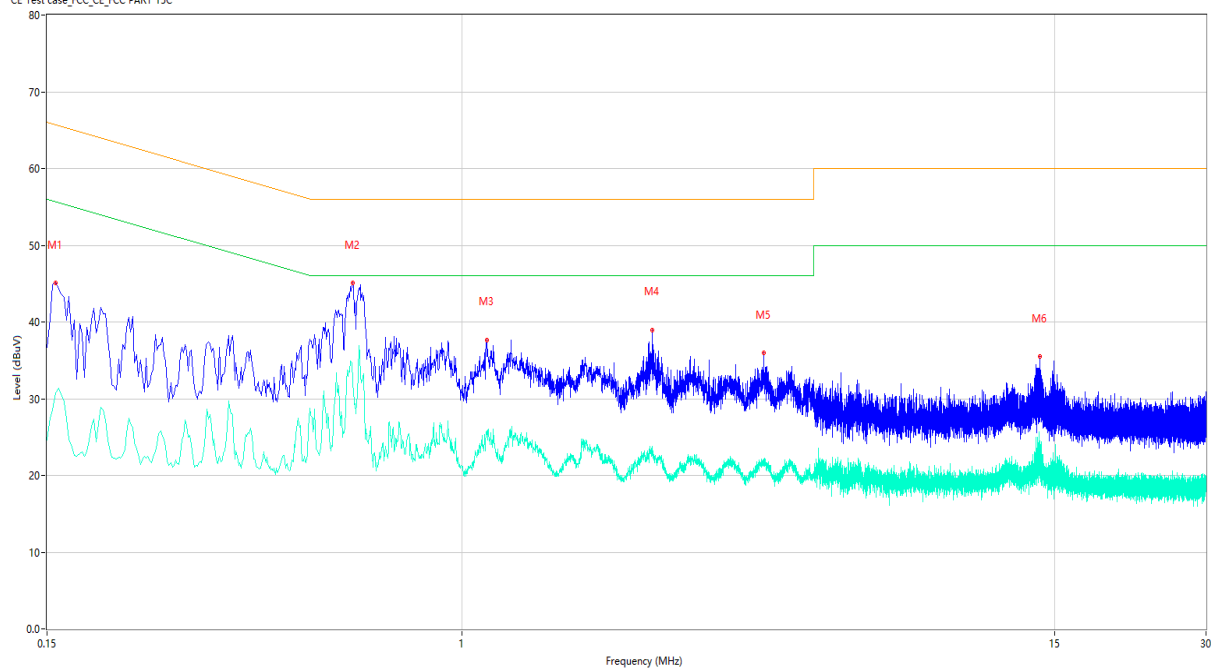
Note 2: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

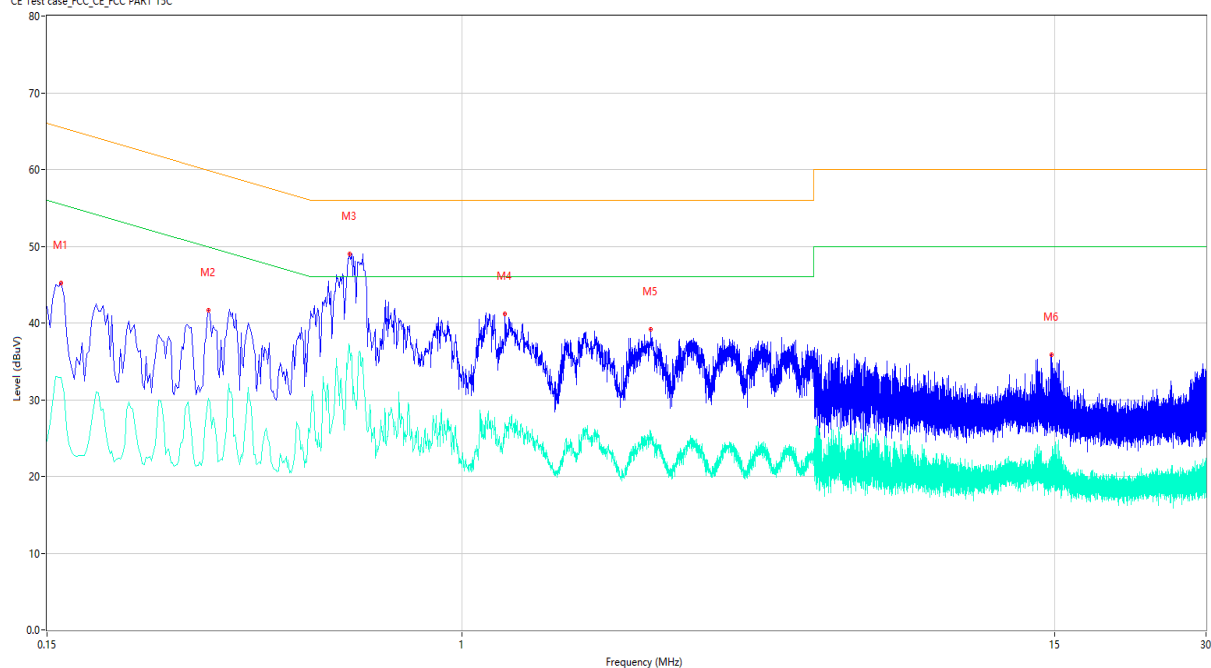
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin(dB)	Detector	Line	Verdict
1	0.156	45.09	9.83	65.67	20.58	Peak	L	Pass
1**	0.156	30.72	9.83	55.67	24.95	AV	L	Pass
2	0.606	45.11	9.74	56.00	10.89	Peak	L	Pass
2**	0.606	32.24	9.74	46.00	13.76	AV	L	Pass
3	1.120	37.67	9.77	56.00	18.33	Peak	L	Pass
3**	1.120	25.37	9.77	46.00	20.63	AV	L	Pass
4	2.390	38.97	9.65	56.00	17.03	Peak	L	Pass
4**	2.390	23.74	9.65	46.00	22.26	AV	L	Pass
5	3.974	35.99	9.62	56.00	20.01	Peak	L	Pass
5**	3.974	22.01	9.62	46.00	23.99	AV	L	Pass
6	14.062	35.53	8.97	60.00	24.47	Peak	L	Pass
6**	14.062	23.17	8.97	50.00	26.83	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	0.160	45.23	9.73	65.46	20.23	Peak	N	Pass
1**	0.160	32.95	9.73	55.46	22.51	AV	N	Pass
2	0.314	41.63	9.73	59.86	18.23	Peak	N	Pass
2**	0.314	30.21	9.73	49.86	19.65	AV	N	Pass
3	0.598	49.00	9.74	56.00	7.00	Peak	N	Pass
3**	0.598	37.02	9.74	46.00	8.98	AV	N	Pass
4	1.218	41.16	9.74	56.00	14.84	Peak	N	Pass
4**	1.218	26.97	9.74	46.00	19.03	AV	N	Pass
5	2.370	39.13	9.75	56.00	16.87	Peak	N	Pass
5**	2.370	25.25	9.75	46.00	20.75	AV	N	Pass
6	14.790	35.85	8.99	60.00	24.15	Peak	N	Pass
6**	14.790	22.66	8.99	50.00	27.34	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.

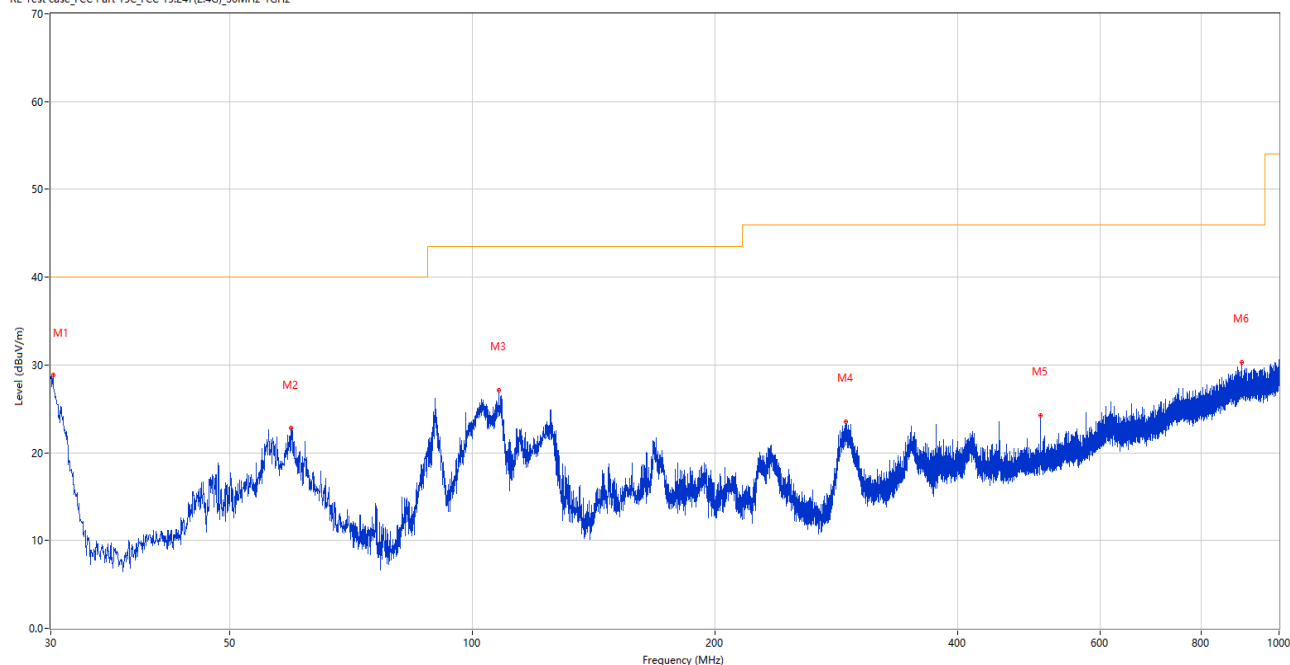
Note 3: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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

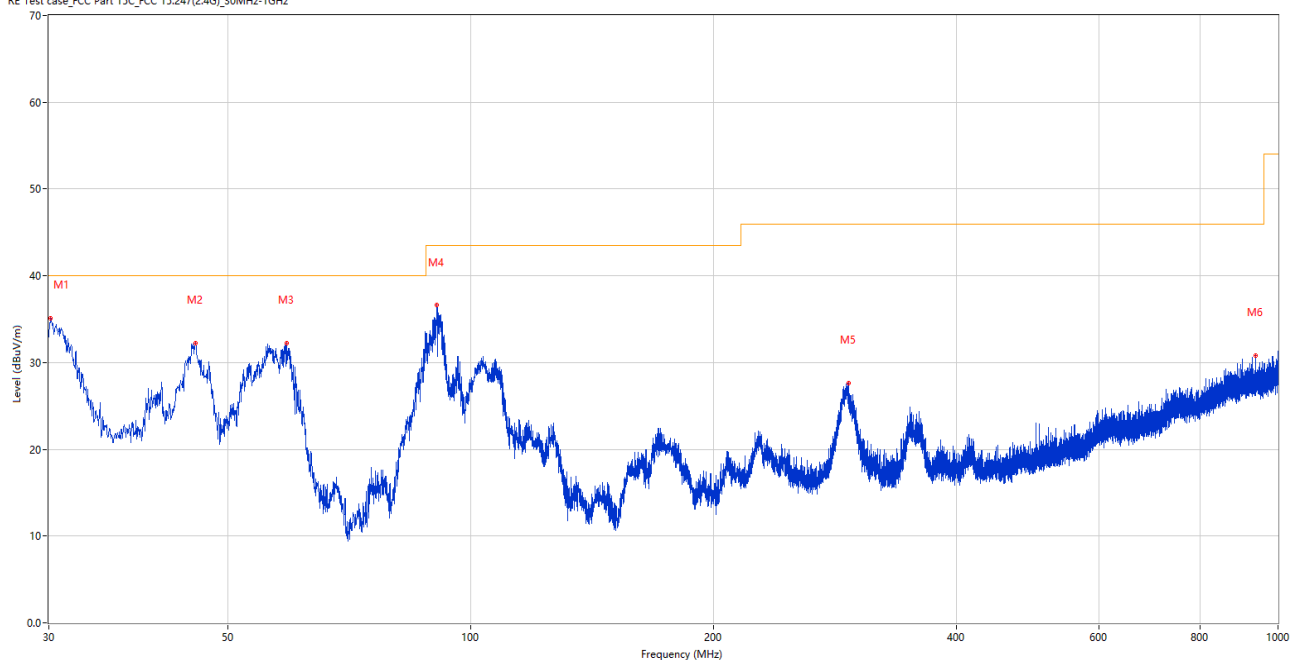
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.194	28.88	-28.92	40.0	11.12	Peak	353.00	100	Horizontal	Pass
2	59.585	22.78	-25.93	40.0	17.22	Peak	360.00	200	Horizontal	Pass
3	107.842	27.16	-26.43	43.5	16.34	Peak	84.00	100	Horizontal	Pass
4	290.203	23.53	-23.20	46.0	22.47	Peak	4.00	100	Horizontal	Pass
5	506.270	24.23	-17.80	46.0	21.77	Peak	312.00	100	Horizontal	Pass
6	899.945	30.27	-9.26	46.0	15.73	Peak	68.00	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	30.145	35.06	-28.91	40.0	4.94	Peak	0.00	100	Vertical	Pass
2	45.617	32.22	-24.66	40.0	7.78	Peak	357.00	100	Vertical	Pass
3	59.100	32.23	-25.83	40.0	7.77	Peak	78.00	100	Vertical	Pass
4	90.819	36.59	-27.84	43.5	6.91	Peak	283.00	200	Vertical	Pass
5	293.500	27.68	-23.20	46.0	18.32	Peak	162.00	100	Vertical	Pass
6	938.162	30.78	-8.96	46.0	15.22	Peak	359.00	100	Vertical	Pass

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

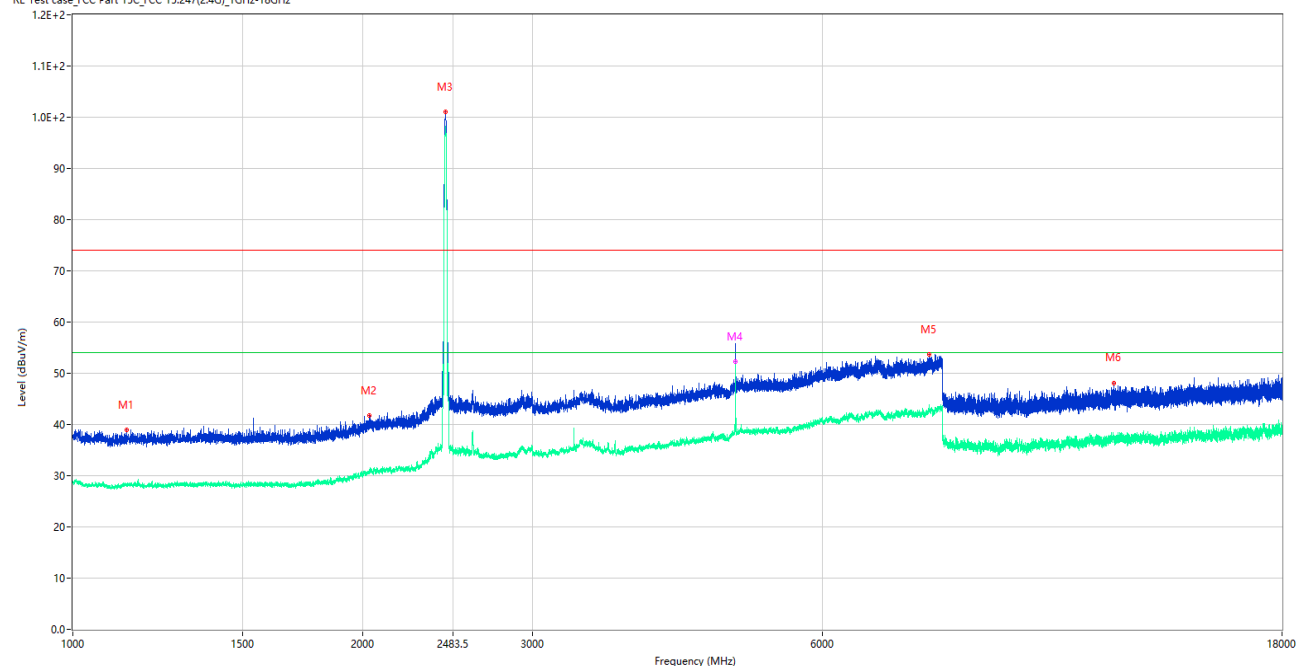
Note 2: The spurious above 18G is noise only, do not show on the report.

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

Note 4: All the configurations were pre tested, only the worst configuration has been reported in this report.

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

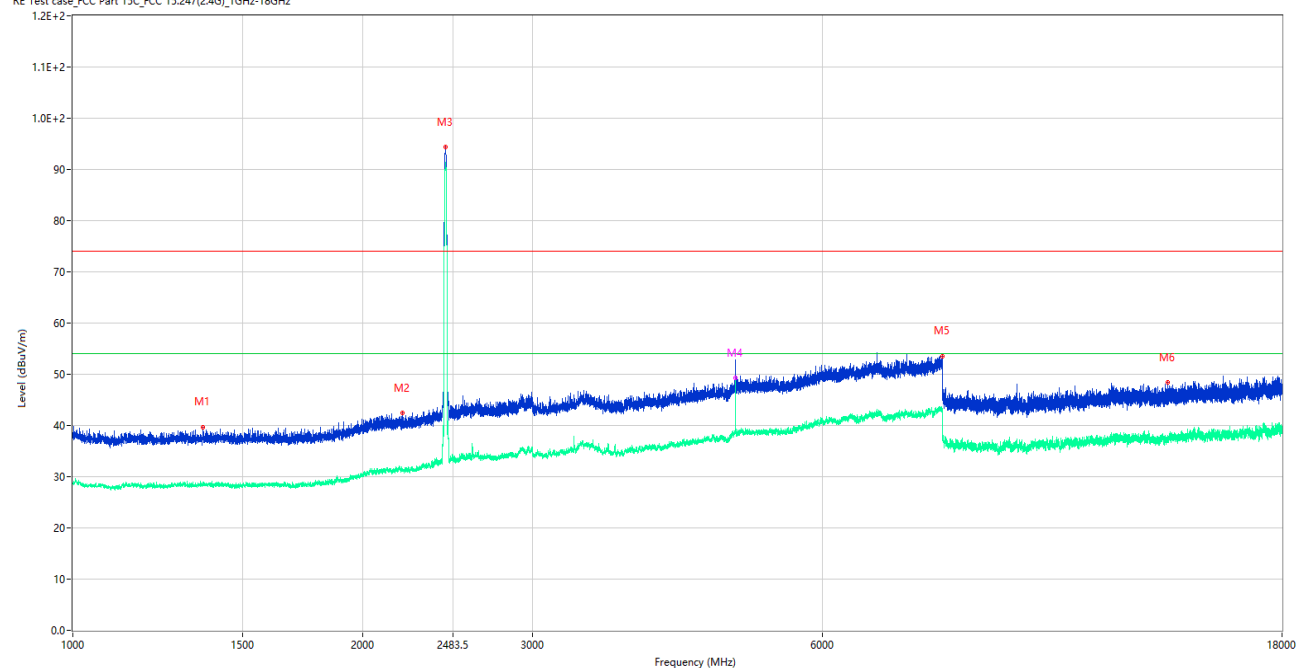
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1137.250	38.93	-15.54	74.0	35.07	Peak	197.00	150	Horizontal	Pass
1**	1137.250	27.89	-15.54	54.0	26.11	AV	197.00	150	Horizontal	Pass
2	2032.750	41.67	-13.46	74.0	32.33	Peak	286.00	150	Horizontal	Pass
2**	2032.750	30.54	-13.46	54.0	23.46	AV	286.00	150	Horizontal	Pass
3	2438.250	101.05	-12.38	74.0	-27.05	Peak	10.00	150	Horizontal	N/A
3**	2438.250	98.24	-12.38	54.0	-44.24	AV	10.00	150	Horizontal	N/A
4	4874.500	54.30	-2.25	74.0	19.70	Peak	350.00	150	Horizontal	Pass
4**	4874.500	52.22	-2.25	54.0	1.78	AV	350.00	150	Horizontal	Pass
5	7740.000	53.65	1.36	74.0	20.35	Peak	233.00	150	Horizontal	Pass
5**	7740.000	42.77	1.36	54.0	11.23	AV	233.00	150	Horizontal	Pass
6	12048.500	48.10	-3.09	74.0	25.90	Peak	0.00	150	Horizontal	Pass
6**	12048.500	36.66	-3.09	54.0	17.34	AV	0.00	150	Horizontal	Pass

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

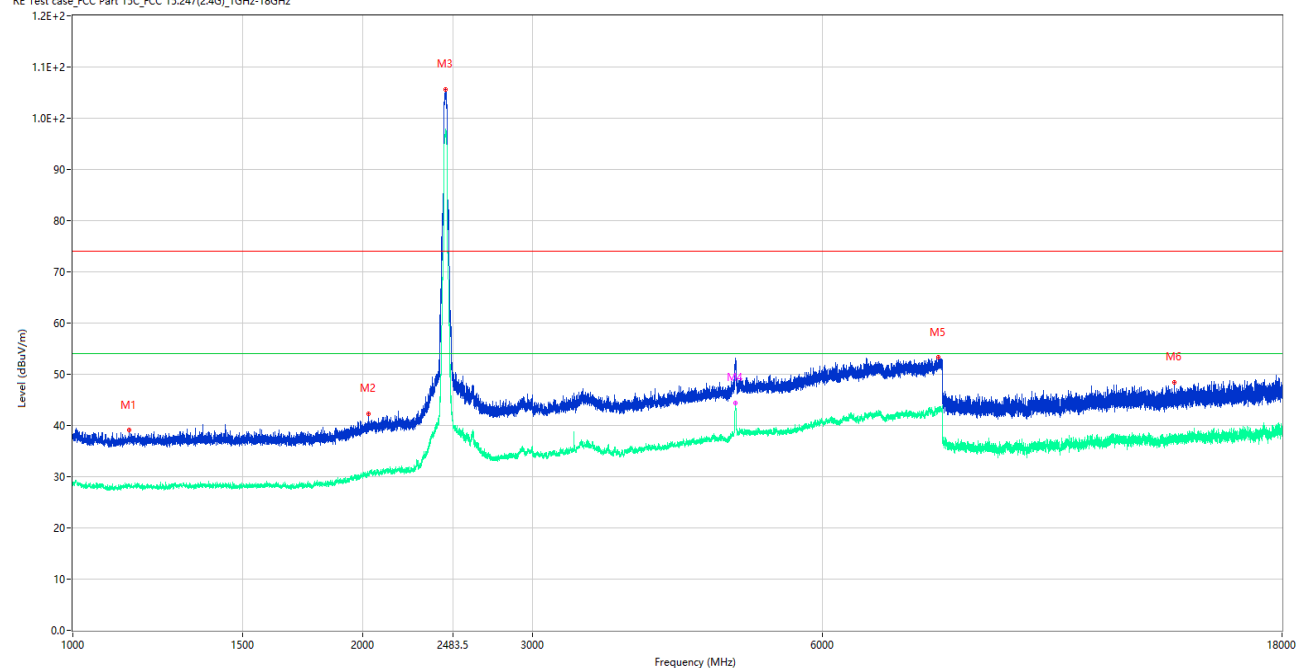
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1365.750	39.69	-15.86	74.0	34.31	Peak	211.00	150	Vertical	Pass
1**	1365.750	28.35	-15.86	54.0	25.65	AV	211.00	150	Vertical	Pass
2	2199.750	42.40	-13.30	74.0	31.60	Peak	123.00	150	Vertical	Pass
2**	2199.750	31.15	-13.30	54.0	22.85	AV	123.00	150	Vertical	Pass
3	2438.250	94.32	-12.38	74.0	-20.32	Peak	182.00	150	Vertical	N/A
3**	2438.250	91.47	-12.38	54.0	-37.47	AV	182.00	150	Vertical	N/A
4	4874.500	52.81	-2.25	74.0	21.19	Peak	11.00	150	Vertical	Pass
4**	4874.500	49.23	-2.25	54.0	4.77	AV	11.00	150	Vertical	Pass
5	7999.000	53.54	1.88	74.0	20.46	Peak	0.00	150	Vertical	Pass
5**	7999.000	42.99	1.88	54.0	11.01	AV	0.00	150	Vertical	Pass
6	13703.999	48.36	-2.74	74.0	25.64	Peak	323.00	150	Vertical	Pass
6**	13703.999	37.26	-2.74	54.0	16.74	AV	323.00	150	Vertical	Pass

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

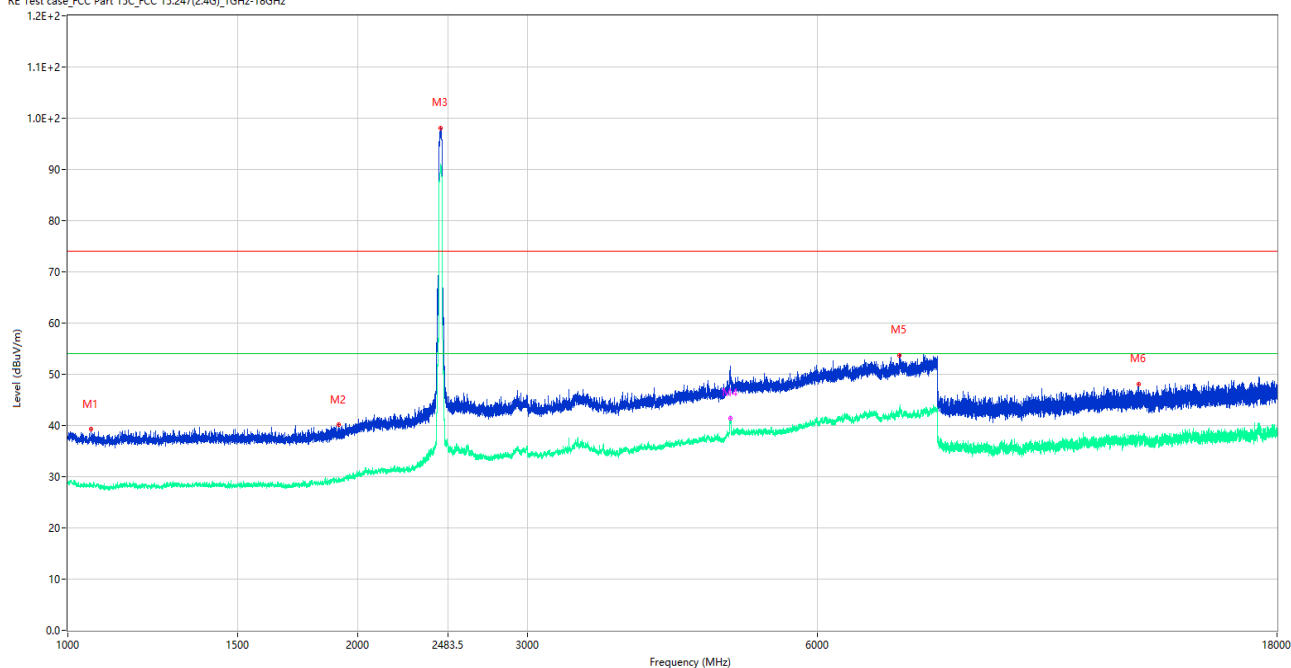
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1144.000	39.07	-15.61	74.0	34.93	Peak	286.00	150	Horizontal	Pass
1**	1144.000	28.13	-15.61	54.0	25.87	AV	286.00	150	Horizontal	Pass
2	2027.500	42.30	-13.81	74.0	31.70	Peak	190.00	150	Horizontal	Pass
2**	2027.500	30.59	-13.81	54.0	23.41	AV	190.00	150	Horizontal	Pass
3	2439.000	105.62	-12.37	74.0	-31.62	Peak	19.00	150	Horizontal	N/A
3**	2439.000	97.76	-12.37	54.0	-43.76	AV	19.00	150	Horizontal	N/A
4	4872.500	51.63	-2.22	74.0	22.37	Peak	0.00	150	Horizontal	Pass
4**	4872.500	44.39	-2.22	54.0	9.61	AV	0.00	150	Horizontal	Pass
5	7915.500	53.31	1.85	74.0	20.69	Peak	0.00	150	Horizontal	Pass
5**	7915.500	43.04	1.85	54.0	10.96	AV	0.00	150	Horizontal	Pass
6	13902.500	48.43	-2.93	74.0	25.57	Peak	322.00	150	Horizontal	Pass
6**	13902.500	36.92	-2.93	54.0	17.08	AV	322.00	150	Horizontal	Pass

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

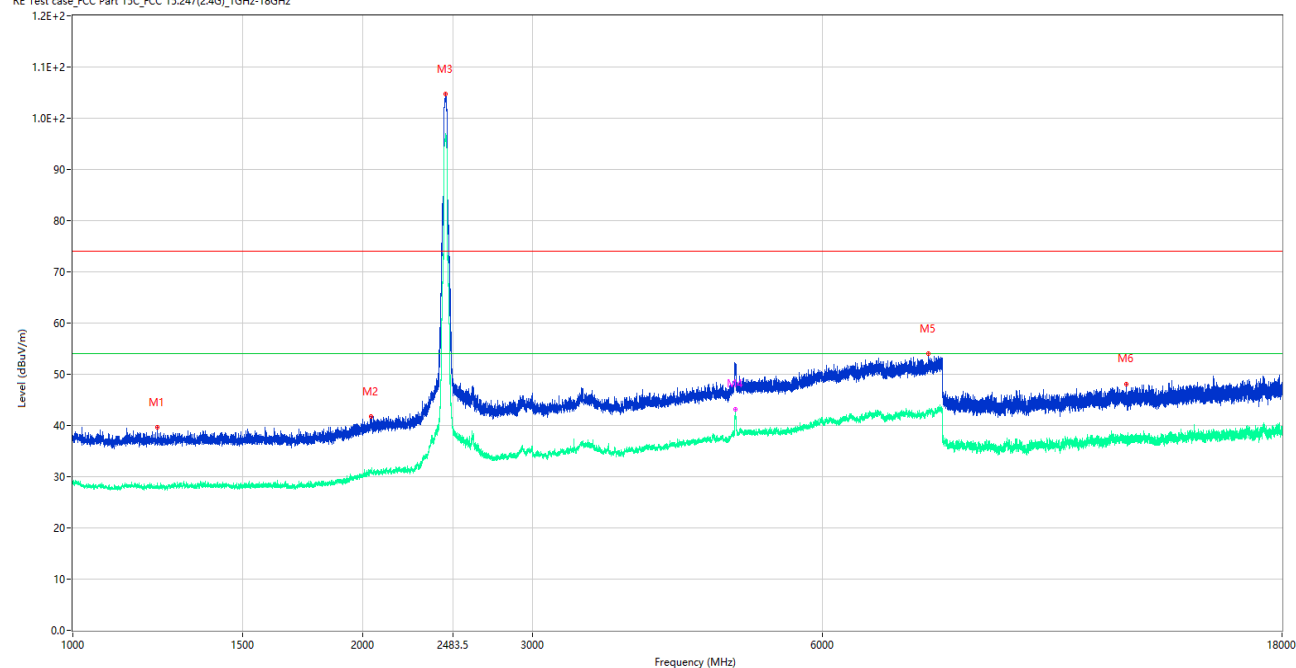
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1057.000	39.26	-15.36	74.0	34.74	Peak	148.00	150	Vertical	Pass
1**	1057.000	28.03	-15.36	54.0	25.97	AV	148.00	150	Vertical	Pass
2	1911.500	40.17	-15.45	74.0	33.83	Peak	53.00	150	Vertical	Pass
2**	1911.500	29.08	-15.45	54.0	24.92	AV	53.00	150	Vertical	Pass
3	2437.500	98.14	-12.38	74.0	-24.14	Peak	184.00	150	Vertical	N/A
3**	2437.500	89.31	-12.38	54.0	-35.31	AV	184.00	150	Vertical	N/A
4	4873.500	48.59	-2.23	74.0	25.41	Peak	360.00	150	Vertical	Pass
4**	4873.500	40.35	-2.23	54.0	13.65	AV	360.00	150	Vertical	Pass
5	7303.000	53.74	0.49	74.0	20.26	Peak	360.00	150	Vertical	Pass
5**	7303.000	42.18	0.49	54.0	11.82	AV	360.00	150	Vertical	Pass
6	12932.500	48.08	-2.18	74.0	25.92	Peak	0.00	150	Vertical	Pass
6**	12932.500	37.56	-2.18	54.0	16.44	AV	0.00	150	Vertical	Pass

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

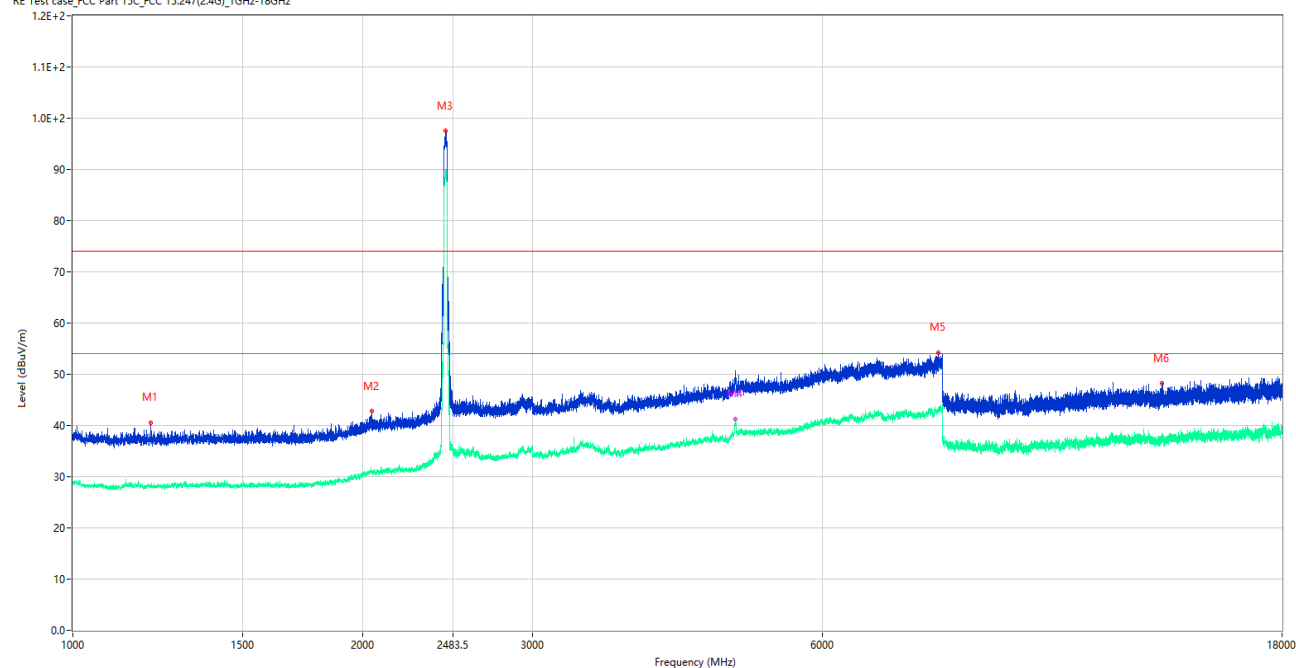
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1223.250	39.61	-15.98	74.0	34.39	Peak	272.00	150	Horizontal	Pass
1**	1223.250	28.50	-15.98	54.0	25.50	AV	272.00	150	Horizontal	Pass
2	2040.750	41.67	-13.31	74.0	32.33	Peak	207.00	150	Horizontal	Pass
2**	2040.750	31.18	-13.31	54.0	22.82	AV	207.00	150	Horizontal	Pass
3	2439.500	104.70	-12.37	74.0	-30.70	Peak	0.00	150	Horizontal	N/A
3**	2439.500	96.53	-12.37	54.0	-42.53	AV	0.00	150	Horizontal	N/A
4	4876.000	50.30	-2.25	74.0	23.70	Peak	360.00	150	Horizontal	Pass
4**	4876.000	43.10	-2.25	54.0	10.90	AV	360.00	150	Horizontal	Pass
5	7735.500	54.01	1.17	74.0	19.99	Peak	81.00	150	Horizontal	Pass
5**	7735.500	42.86	1.17	54.0	11.14	AV	81.00	150	Horizontal	Pass
6	12406.000	48.10	-2.42	74.0	25.90	Peak	154.00	150	Horizontal	Pass
6**	12406.000	36.75	-2.42	54.0	17.25	AV	154.00	150	Horizontal	Pass

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

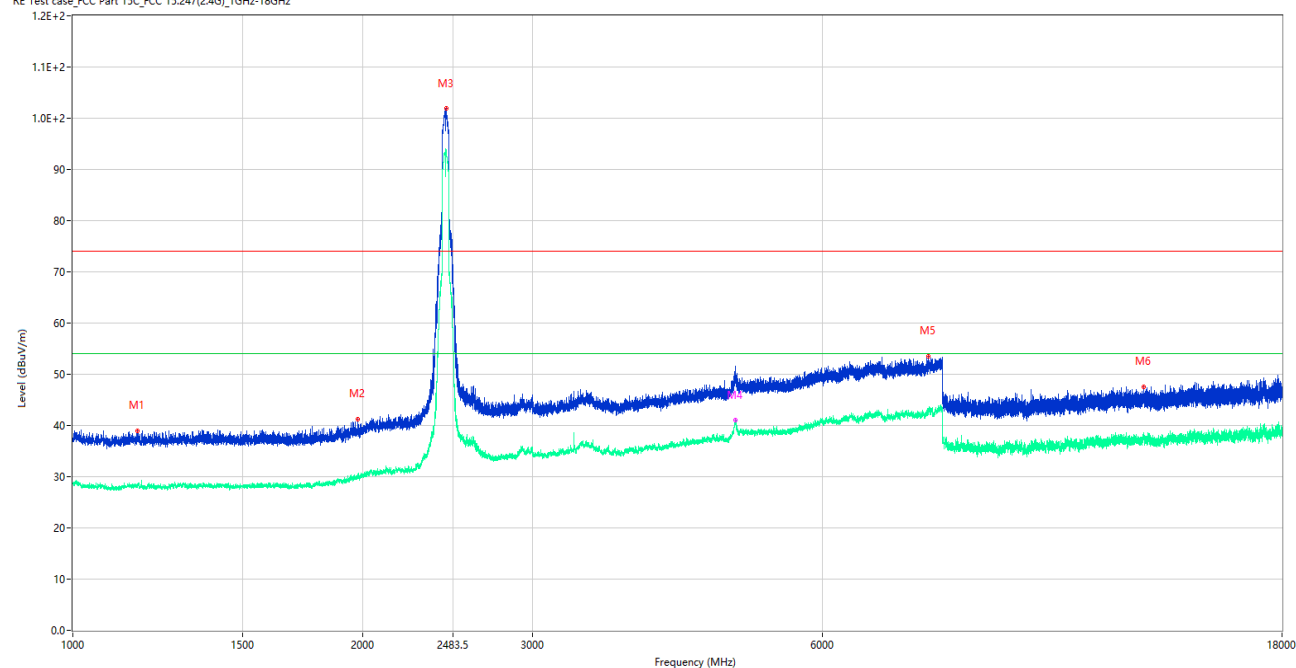
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1205.500	40.54	-15.78	74.0	33.46	Peak	61.00	150	Vertical	Pass
1**	1205.500	27.94	-15.78	54.0	26.06	AV	61.00	150	Vertical	Pass
2	2044.000	42.78	-13.39	74.0	31.22	Peak	8.00	150	Vertical	Pass
2**	2044.000	30.67	-13.39	54.0	23.33	AV	8.00	150	Vertical	Pass
3	2439.500	97.54	-12.37	74.0	-23.54	Peak	185.00	150	Vertical	N/A
3**	2439.500	89.73	-12.37	54.0	-35.73	AV	185.00	150	Vertical	N/A
4	4869.000	48.17	-2.16	74.0	25.83	Peak	0.00	150	Vertical	Pass
4**	4869.000	41.25	-2.16	54.0	12.75	AV	0.00	150	Vertical	Pass
5	7918.500	54.26	1.94	74.0	19.74	Peak	20.00	150	Vertical	Pass
5**	7918.500	43.34	1.94	54.0	10.66	AV	20.00	150	Vertical	Pass
6	13497.000	48.32	-2.74	74.0	25.68	Peak	179.00	150	Vertical	Pass
6**	13497.000	37.42	-2.74	54.0	16.58	AV	179.00	150	Vertical	Pass

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

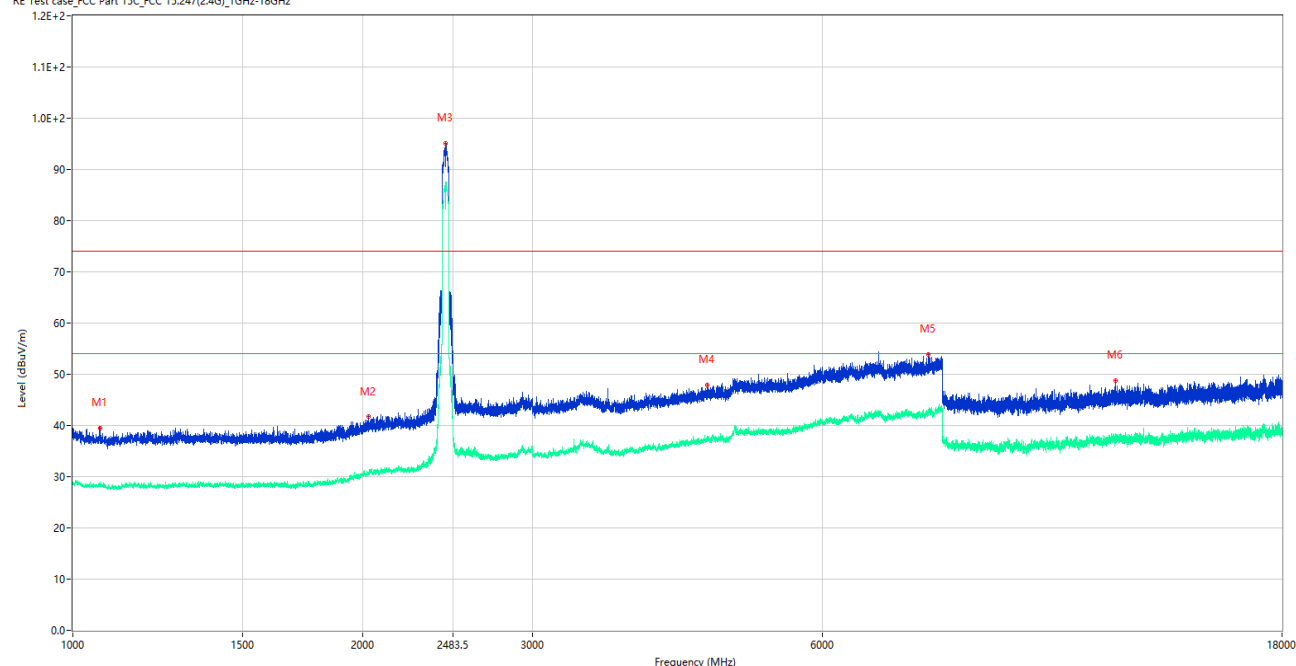
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1167.500	39.00	-15.47	74.0	35.00	Peak	216.00	150	Horizontal	Pass
1**	1167.500	28.52	-15.47	54.0	25.48	AV	216.00	150	Horizontal	Pass
2	1976.750	41.27	-14.80	74.0	32.73	Peak	51.00	150	Horizontal	Pass
2**	1976.750	30.39	-14.80	54.0	23.61	AV	51.00	150	Horizontal	Pass
3	2440.750	101.91	-12.38	74.0	-27.91	Peak	14.00	150	Horizontal	N/A
3**	2440.750	93.64	-12.38	54.0	-39.64	AV	14.00	150	Horizontal	N/A
4	4870.000	48.71	-2.15	74.0	25.29	Peak	0.00	150	Horizontal	Pass
4**	4870.000	40.97	-2.15	54.0	13.03	AV	0.00	150	Horizontal	Pass
5	7731.000	53.58	0.96	74.0	20.42	Peak	343.00	150	Horizontal	Pass
5**	7731.000	42.39	0.96	54.0	11.61	AV	343.00	150	Horizontal	Pass
6	12937.500	47.56	-1.93	74.0	26.44	Peak	360.00	150	Horizontal	Pass
6**	12937.500	37.70	-1.93	54.0	16.30	AV	360.00	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	1067.500	39.46	-15.18	74.0	34.54	Peak	72.00	150	Vertical	Pass
1**	1067.500	28.01	-15.18	54.0	25.99	AV	72.00	150	Vertical	Pass
2	2029.000	41.75	-13.72	74.0	32.25	Peak	12.00	150	Vertical	Pass
2**	2029.000	30.18	-13.72	54.0	23.82	AV	12.00	150	Vertical	Pass
3	2439.250	95.13	-12.37	74.0	-21.13	Peak	86.00	150	Vertical	N/A
3**	2439.250	87.51	-12.37	54.0	-33.51	AV	86.00	150	Vertical	N/A
4	4556.500	47.91	-2.81	74.0	26.09	Peak	245.00	150	Vertical	Pass
4**	4556.500	37.09	-2.81	54.0	16.91	AV	245.00	150	Vertical	Pass
5	7734.500	53.85	1.16	74.0	20.15	Peak	108.00	150	Vertical	Pass
5**	7734.500	42.91	1.16	54.0	11.09	AV	108.00	150	Vertical	Pass
6	12096.000	48.82	-3.18	74.0	25.18	Peak	0.00	150	Vertical	Pass
6**	12096.000	37.51	-3.18	54.0	16.49	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.

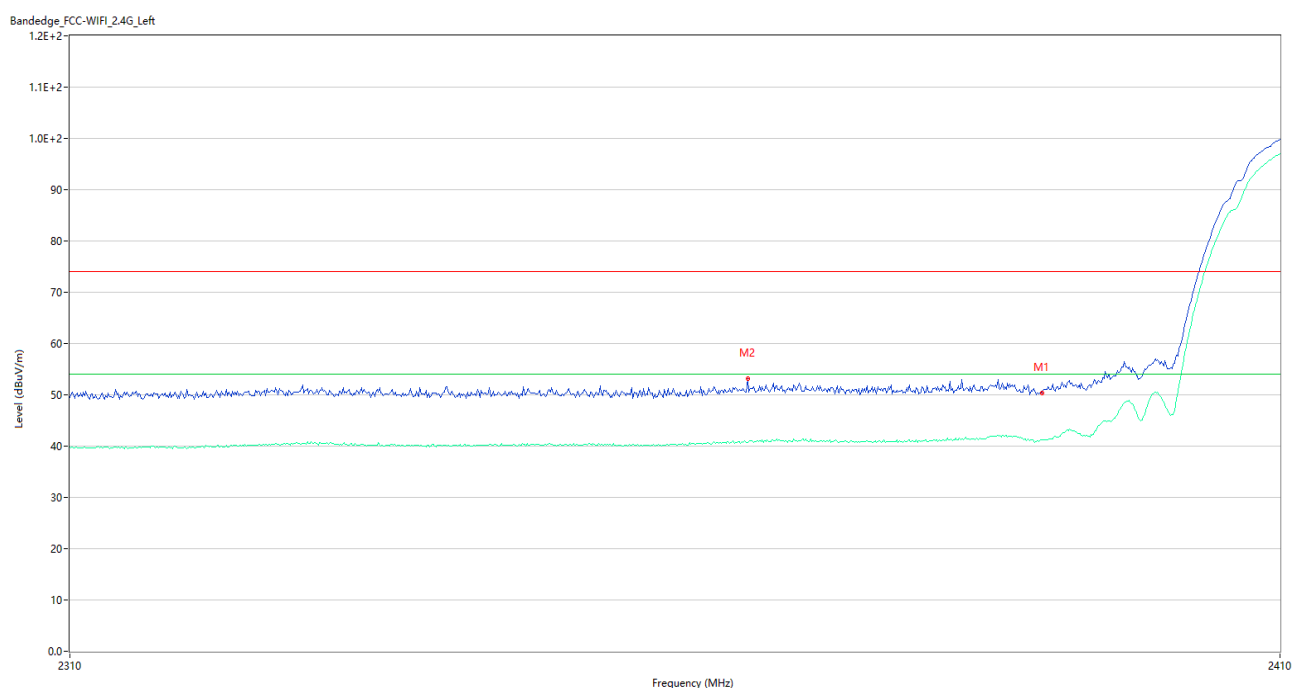
Note 2: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

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.

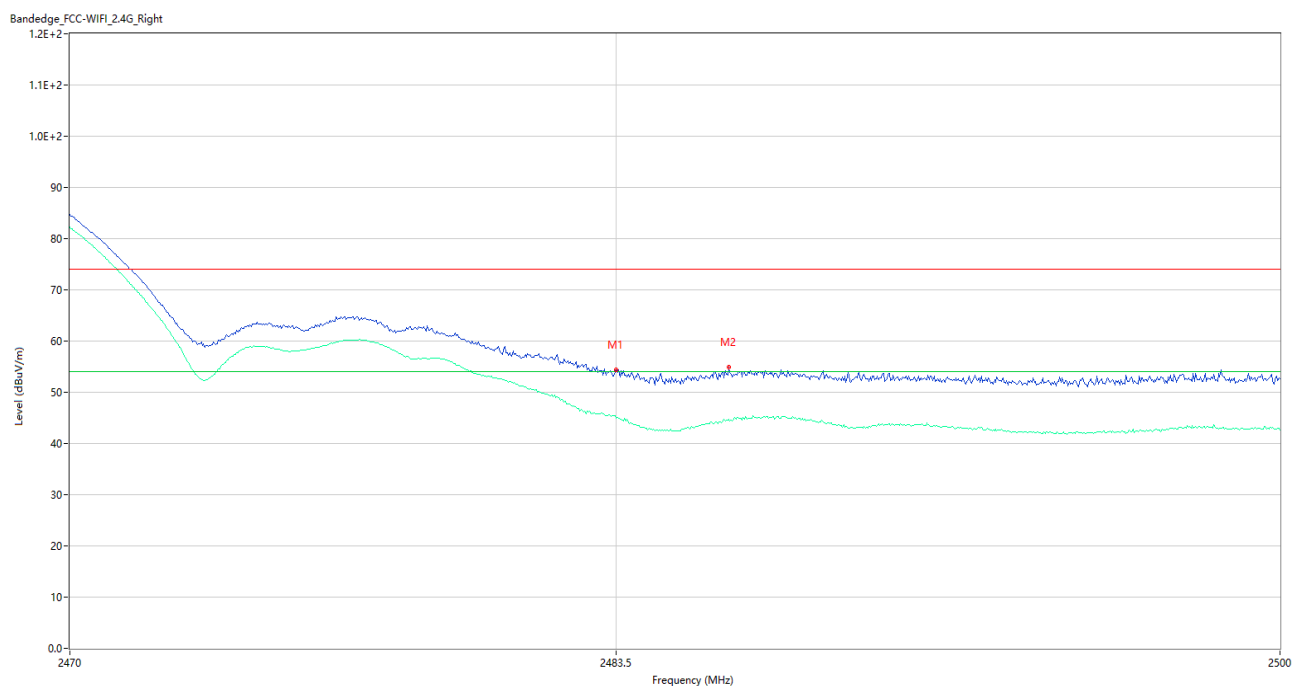
Test Data and Plots

802.11b LOW CHANNEL



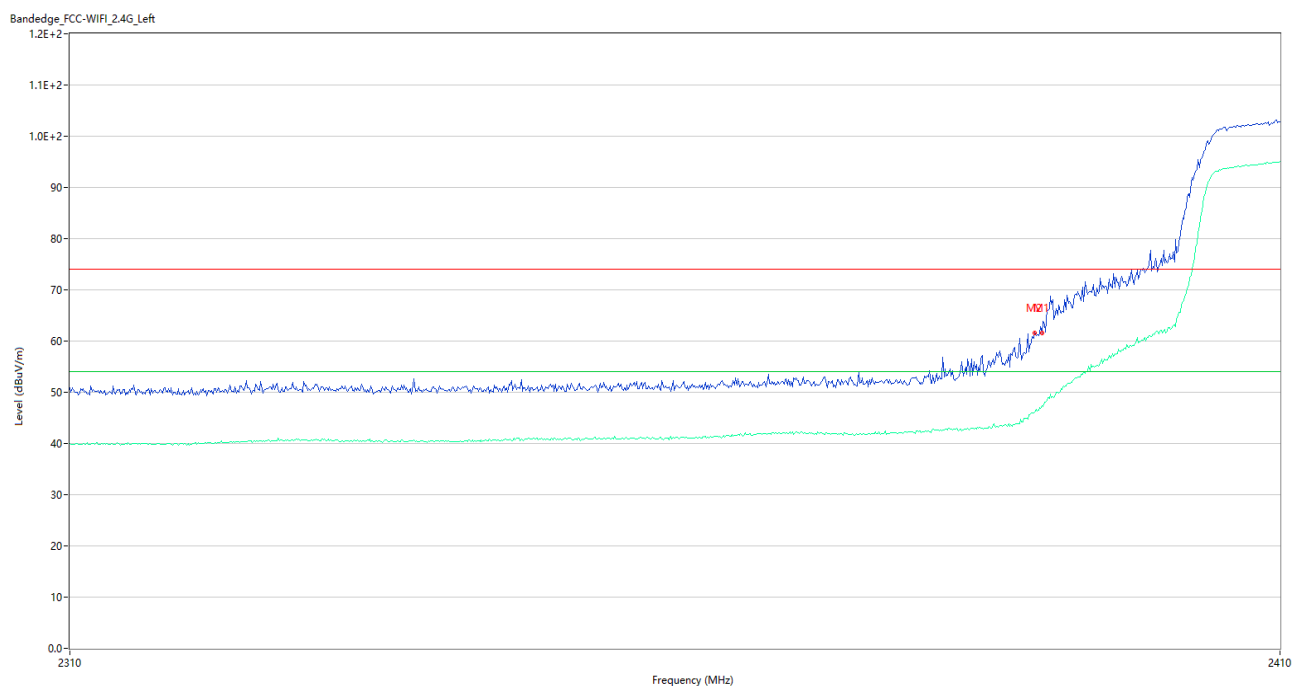
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	50.38	-4.87	74.0	23.62	Peak	331.04	150	Horizontal	Pass
1**	2390.000	41.23	-4.87	54.0	12.77	AV	331.04	150	Horizontal	Pass
2	2365.500	53.13	-4.49	74.0	20.87	Peak	360.00	150	Horizontal	Pass
2**	2365.500	40.66	-4.49	54.0	13.34	AV	360.00	150	Horizontal	Pass

802.11b HIGH CHANNEL



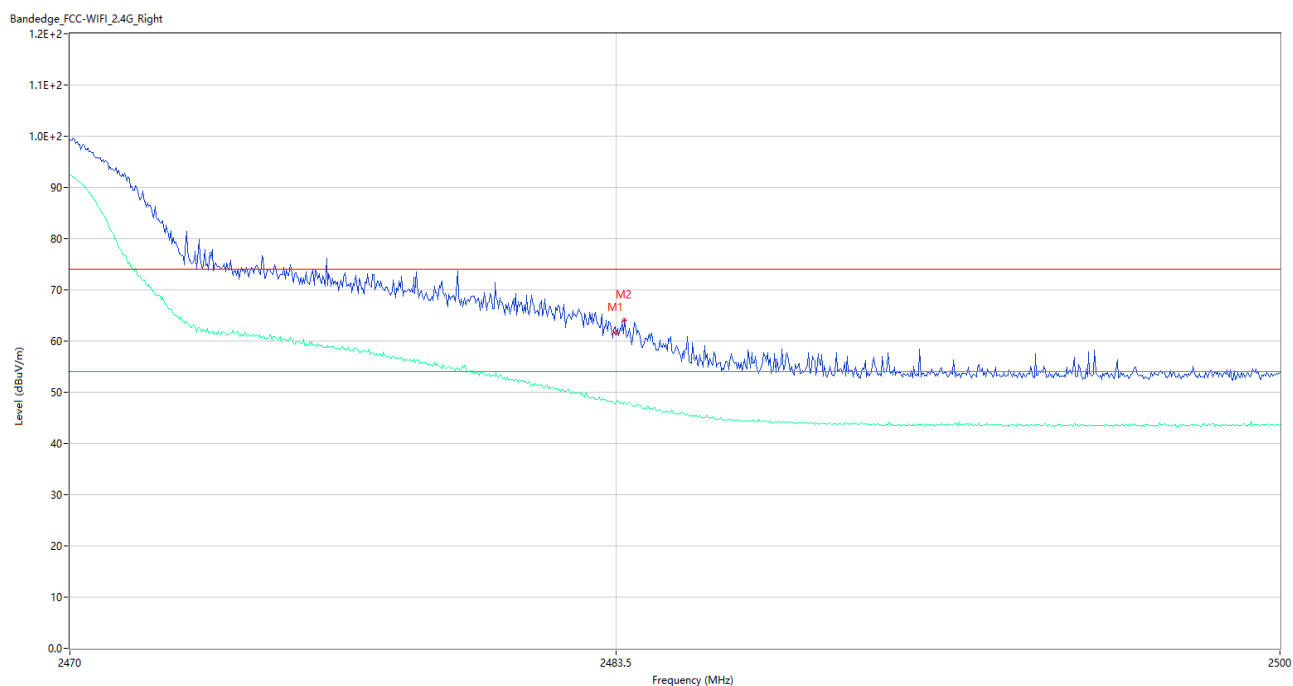
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	54.34	-3.78	74.0	19.66	Peak	31.00	150	Horizontal	Pass
1**	2483.500	44.87	-3.78	54.0	9.13	AV	31.00	150	Horizontal	Pass
2	2486.290	54.83	-3.79	74.0	19.17	Peak	19.00	150	Horizontal	Pass
2**	2486.290	44.68	-3.79	54.0	9.32	AV	19.00	150	Horizontal	Pass

802.11g LOW CHANNEL



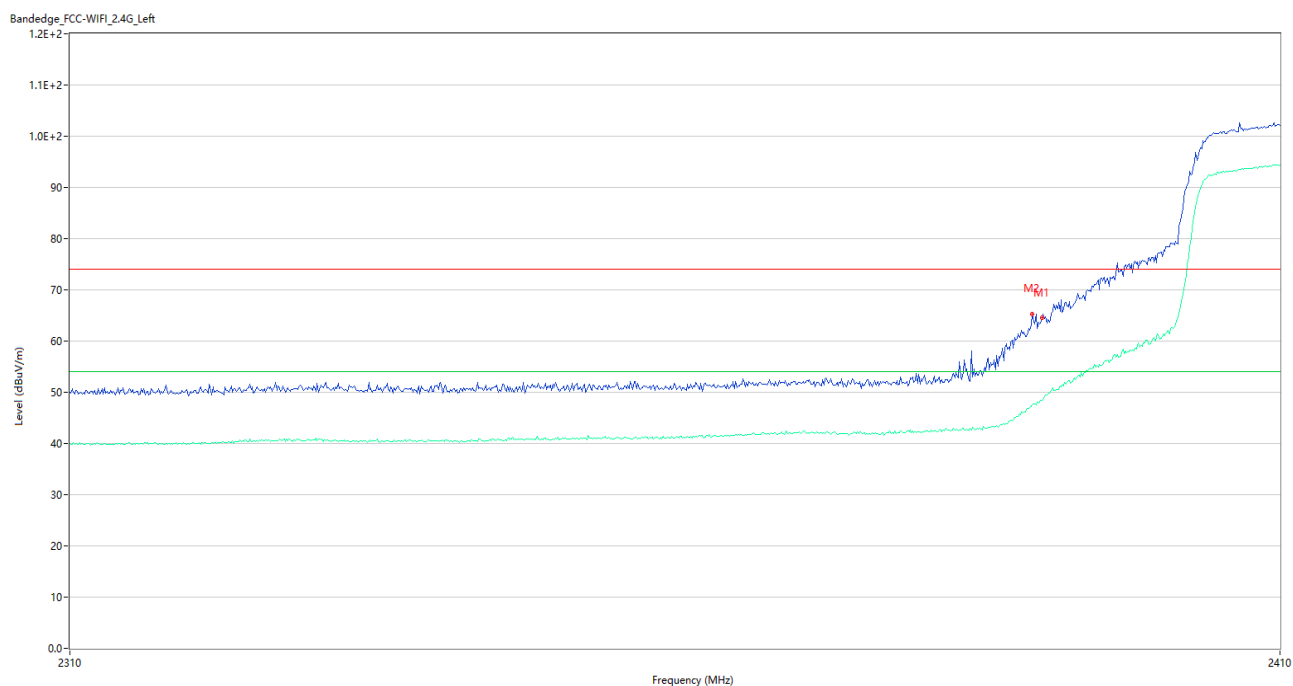
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	61.57	-4.87	74.0	12.43	Peak	0.00	150	Horizontal	Pass
1**	2390.000	47.44	-4.87	54.0	6.56	AV	0.00	150	Horizontal	Pass
2	2389.400	61.58	-4.84	74.0	12.42	Peak	0.00	150	Horizontal	Pass
2**	2389.400	46.08	-4.84	54.0	7.92	AV	0.00	150	Horizontal	Pass

802.11g HIGH CHANNEL



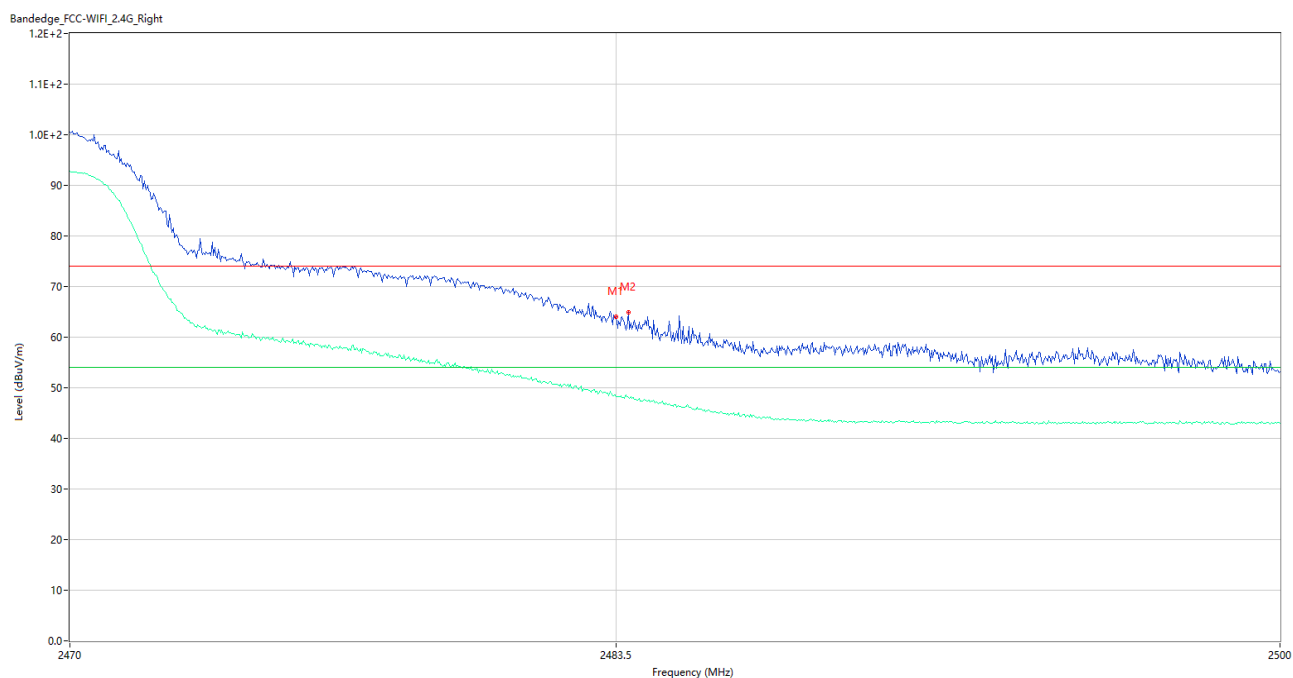
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	61.65	-3.78	74.0	12.35	Peak	74.00	150	Horizontal	Pass
1**	2483.500	48.05	-3.78	54.0	5.95	AV	74.00	150	Horizontal	Pass
2	2483.710	64.02	-3.78	74.0	9.98	Peak	32.00	150	Horizontal	Pass
2**	2483.710	48.04	-3.78	54.0	5.96	AV	32.00	150	Horizontal	Pass

802.11n20 LOW CHANNEL



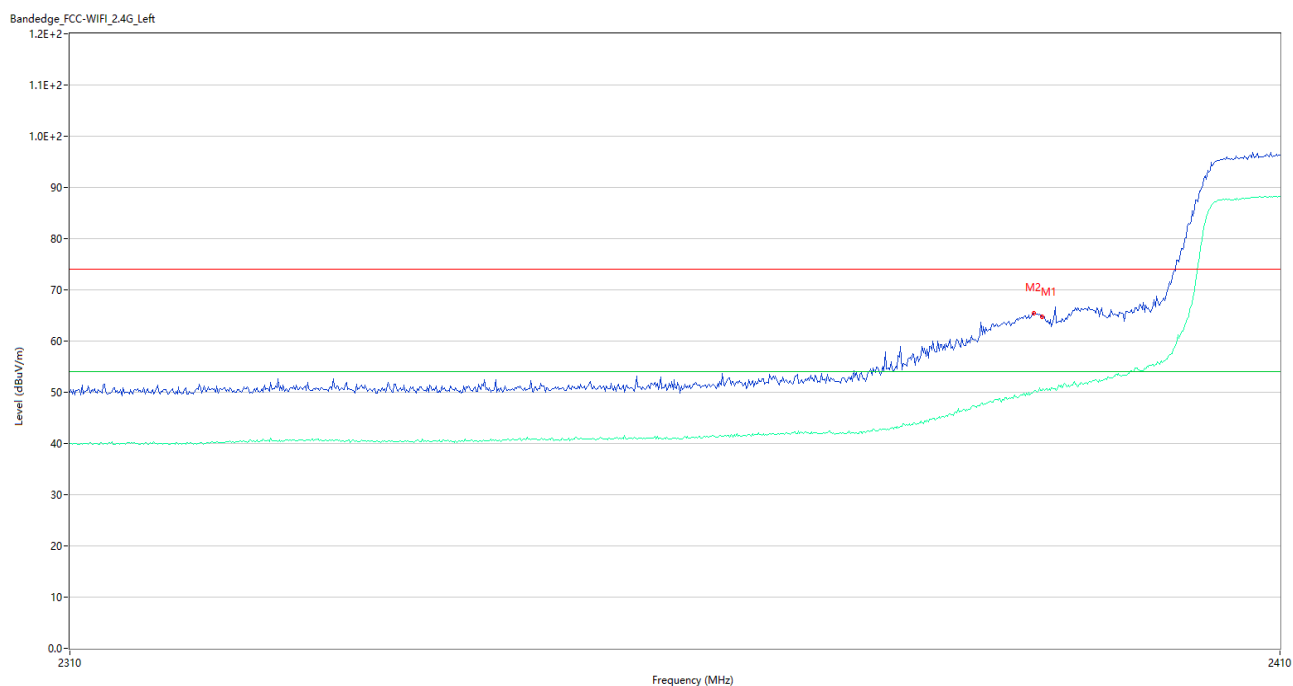
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	64.55	-4.87	74.0	9.45	Peak	40.97	150	Horizontal	Pass
1**	2390.000	48.37	-4.87	54.0	5.63	AV	40.97	150	Horizontal	Pass
2	2389.200	65.30	-4.83	74.0	8.70	Peak	8.00	150	Horizontal	Pass
2**	2389.200	47.54	-4.83	54.0	6.46	AV	8.00	150	Horizontal	Pass

802.11n20 HIGH CHANNEL



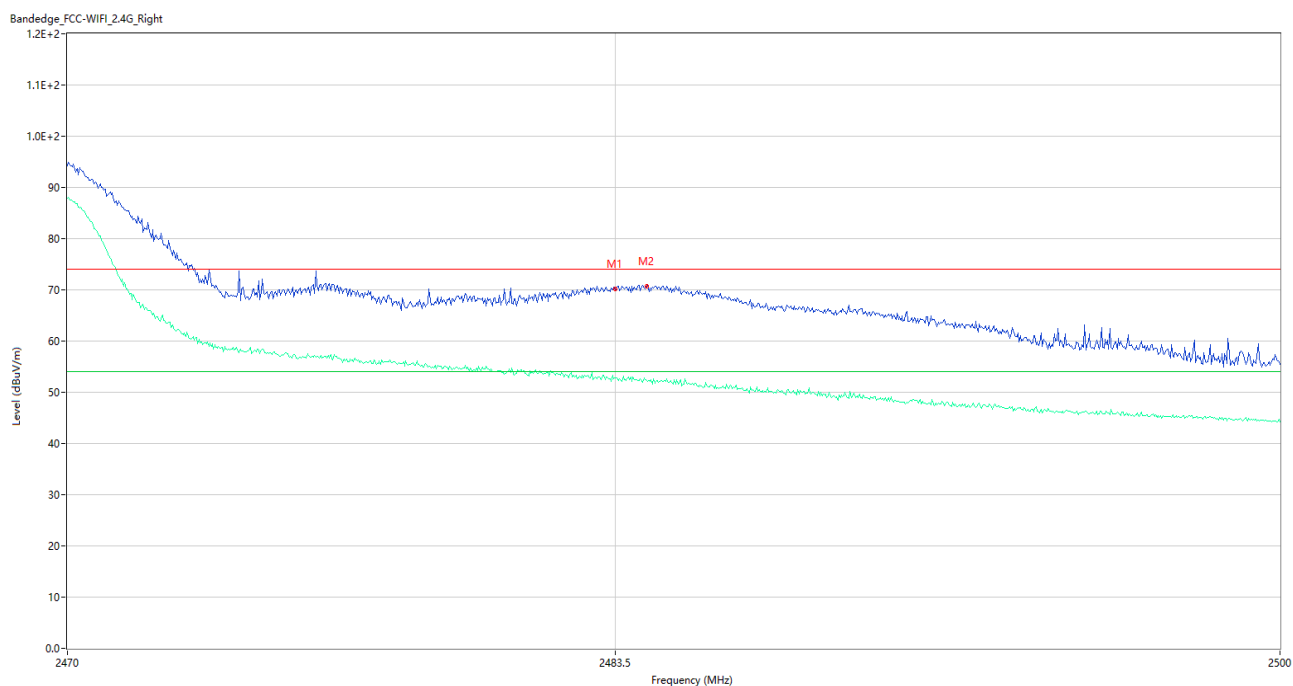
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	63.95	-3.78	74.0	10.05	Peak	38.00	150	Horizontal	Pass
1**	2483.500	48.24	-3.78	54.0	5.76	AV	38.00	150	Horizontal	Pass
2	2483.800	64.85	-3.78	74.0	9.15	Peak	0.00	150	Horizontal	Pass
2**	2483.800	48.04	-3.78	54.0	5.96	AV	0.00	150	Horizontal	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	64.70	-4.87	74.0	9.30	Peak	15.00	150	Horizontal	Pass
1**	2390.000	50.36	-4.87	54.0	3.64	AV	15.00	150	Horizontal	Pass
2	2389.300	65.49	-4.84	74.0	8.51	Peak	15.00	150	Horizontal	Pass
2**	2389.300	50.15	-4.84	54.0	3.85	AV	15.00	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	70.25	-3.78	74.0	3.75	Peak	190.00	150	Horizontal	Pass
1**	2483.500	52.78	-3.78	54.0	1.22	AV	190.00	150	Horizontal	Pass
2	2484.280	70.89	-3.78	74.0	3.11	Peak	187.00	150	Horizontal	Pass
2**	2484.280	52.12	-3.78	54.0	1.88	AV	187.00	150	Horizontal	Pass

A.8 Power Spectral Density (PSD)

Test Data

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-16.30	8
Middle	-16.59	8
High	-16.28	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-16.73	8
Middle	-17.26	8
High	-17.22	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-17.81	8
Middle	-17.51	8
High	-17.81	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-21.16	8
Middle	-20.57	8
High	-22.12	8

Test Plots

802.11b LOW CHANNEL



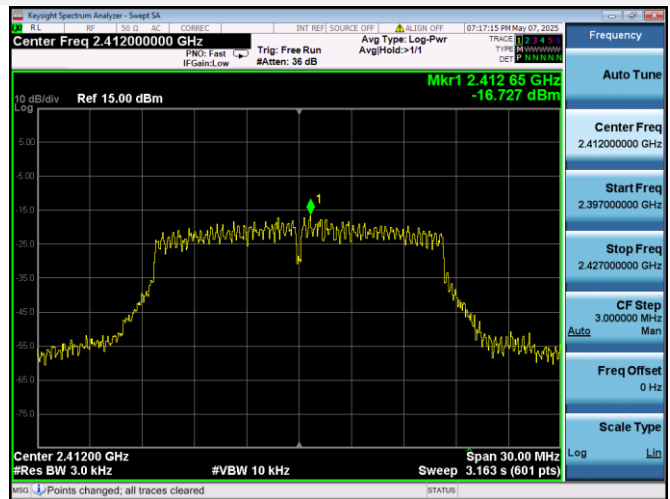
802.11b MIDDLE CHANNEL



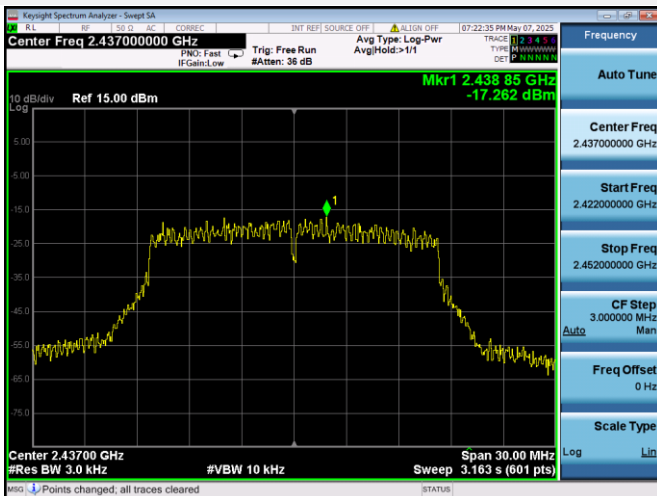
802.11b HIGH CHANNEL



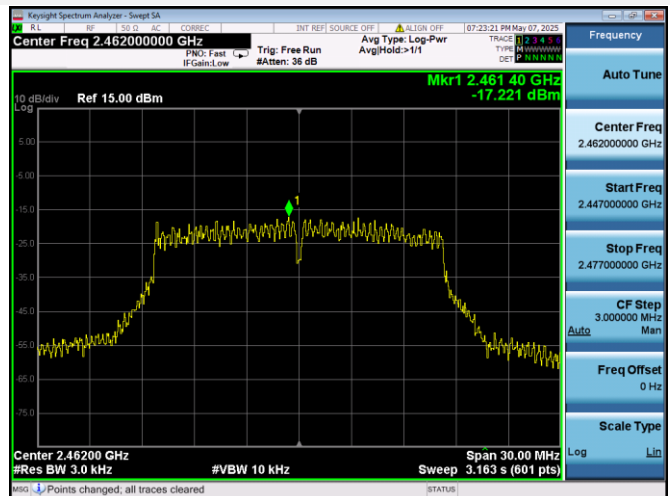
802.11g LOW CHANNEL



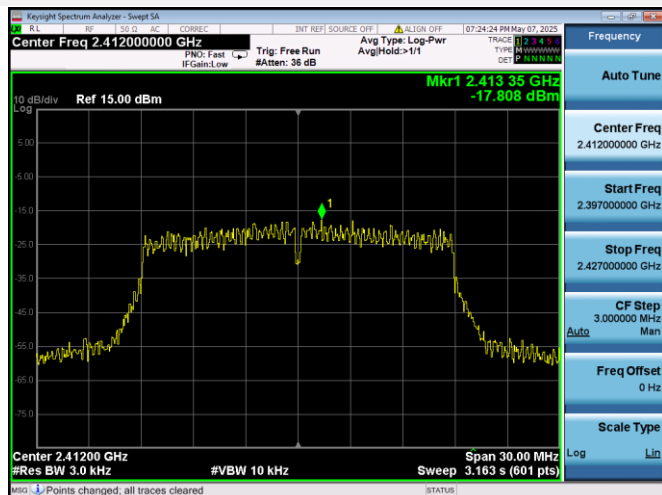
802.11g MIDDLE CHANNEL



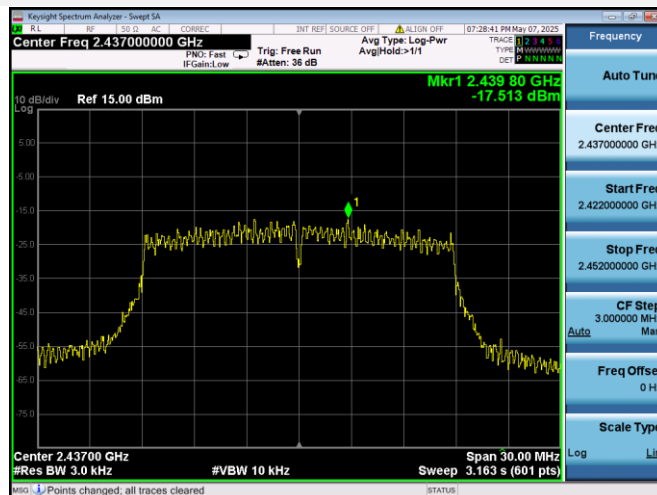
802.11g HIGH CHANNEL



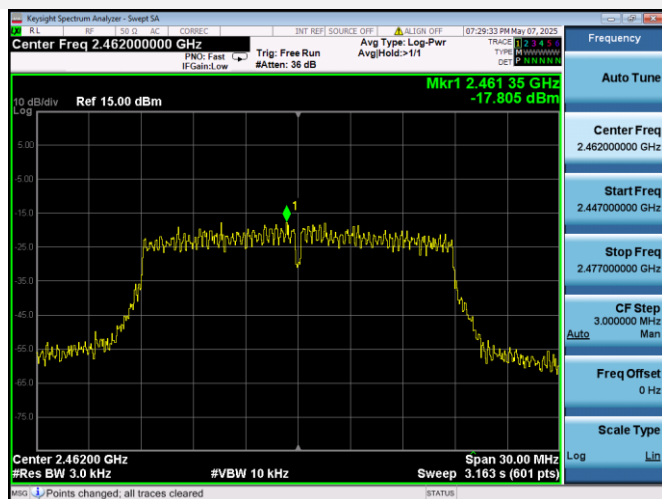
802.11n-20 MHz LOW CHANNEL



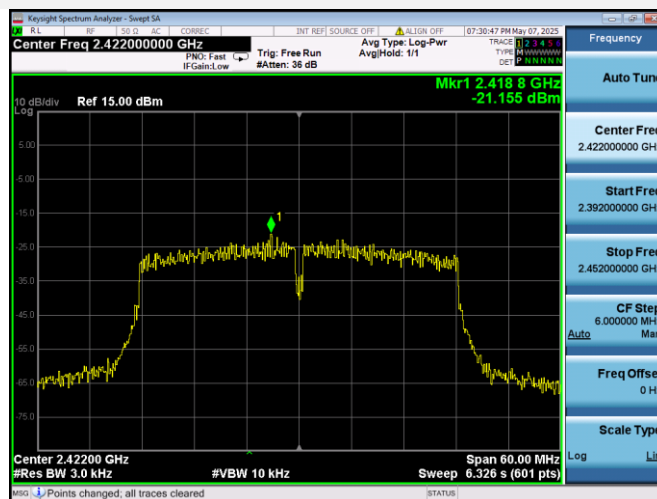
802.11 n-20 MHz MIDDLE CHANNEL



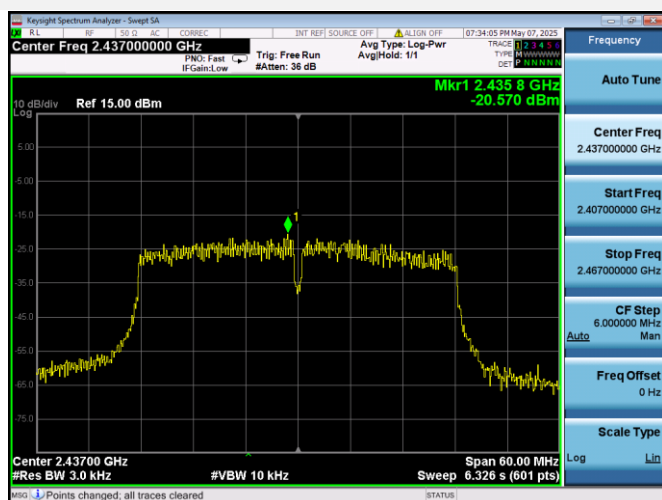
802.11n-20 MHz HIGH CHANNEL



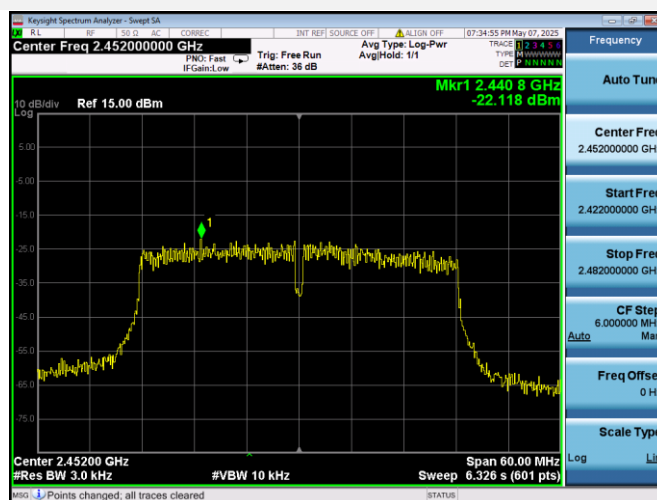
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH2530291-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH2530291-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH2530291-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.
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6. Any objection shall be raised to the Testing Center within 30 days after receiving the report.

--END OF REPORT--