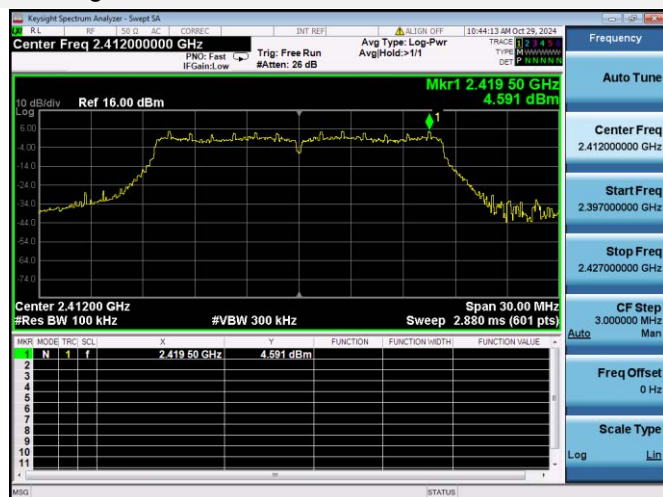
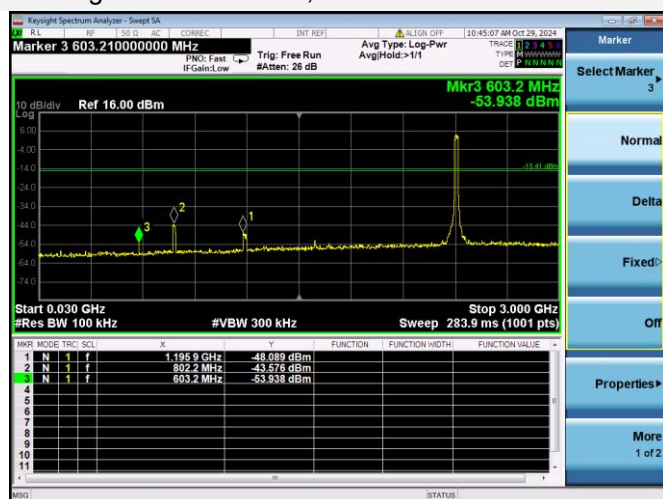


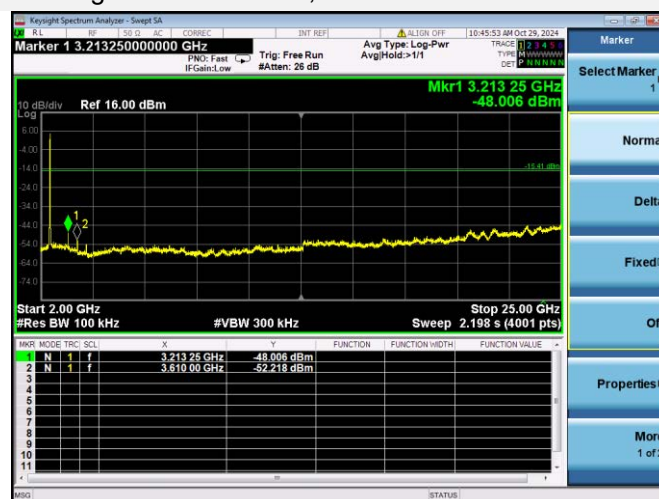
802.11g LOW CHANNEL CARRIER LEVEL



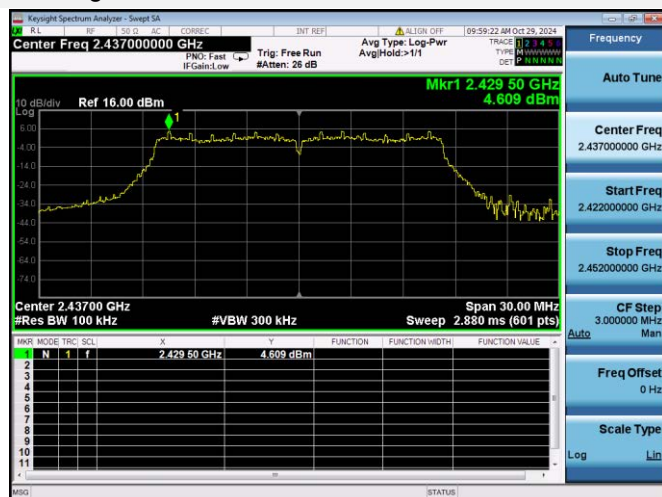
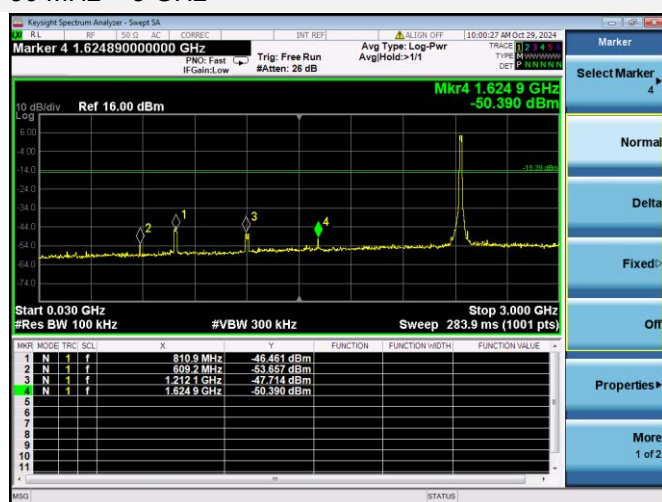
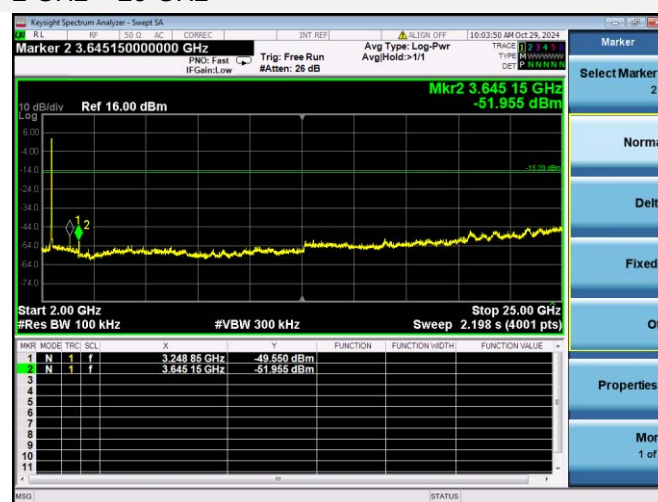
802.11g LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



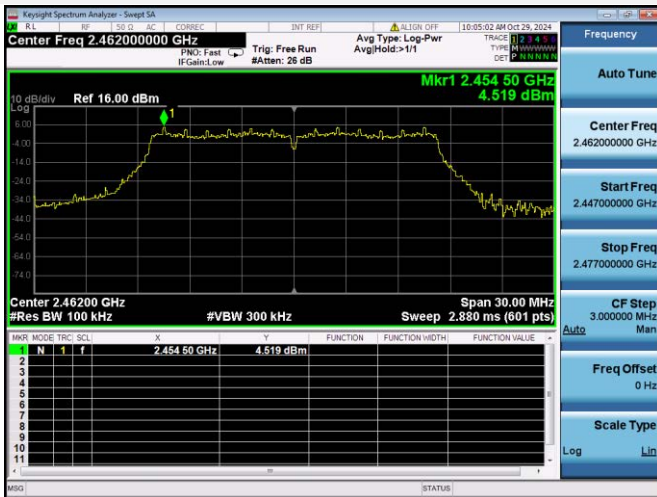
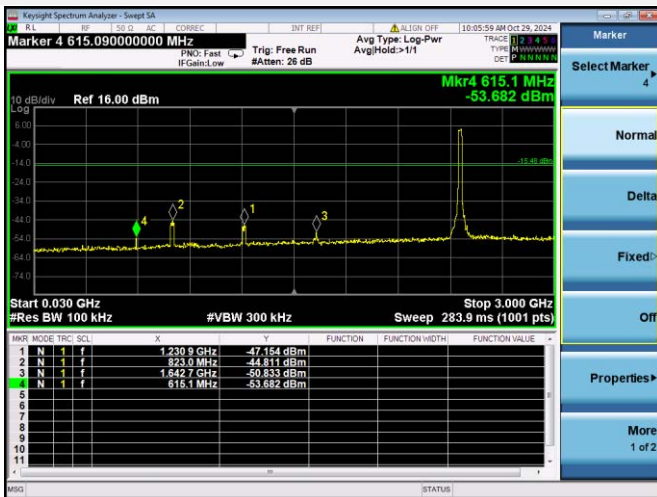
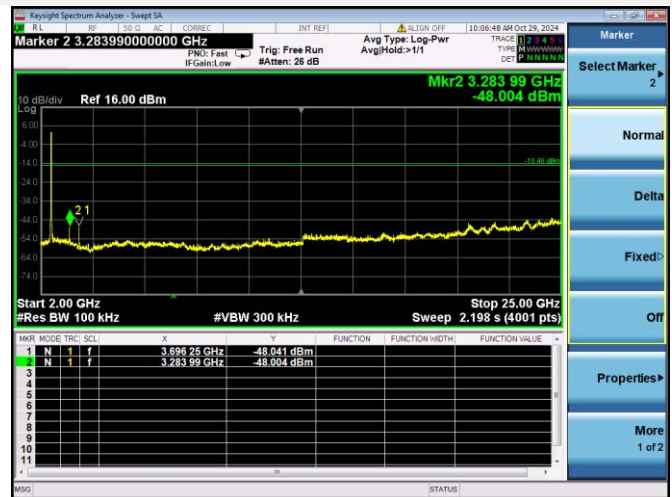
802.11g LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



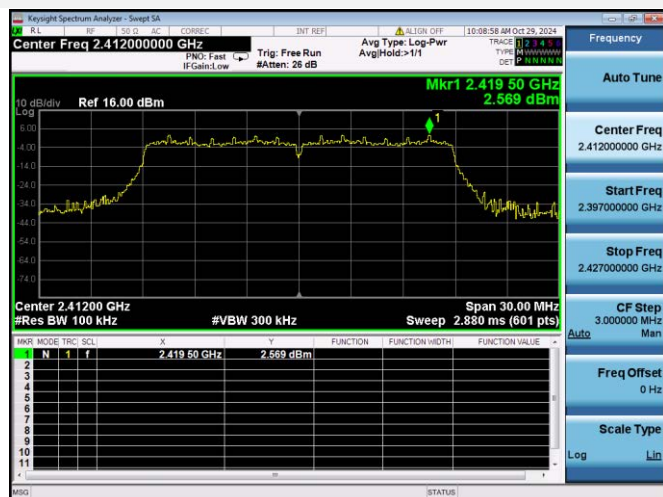
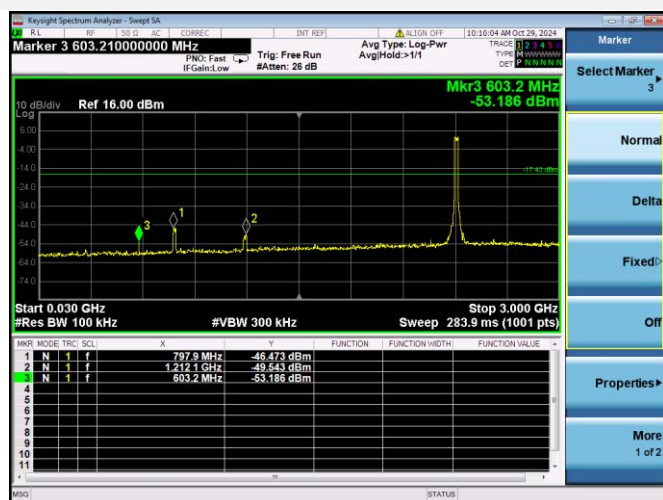
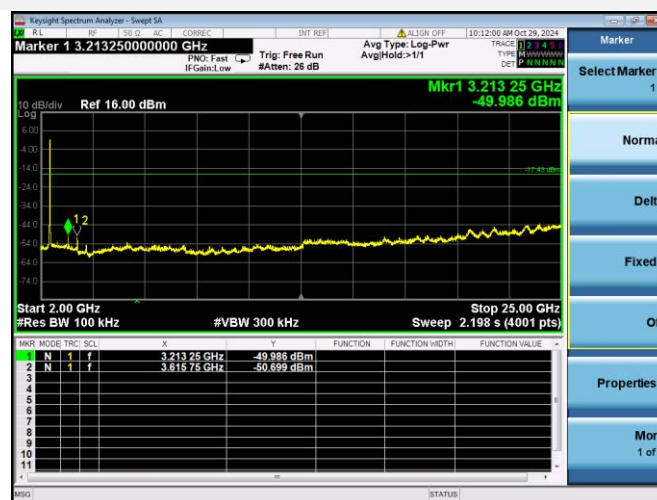
802.11g MIDDLE CHANNEL CARRIER LEVEL

802.11g MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz802.11g MIDDLE CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

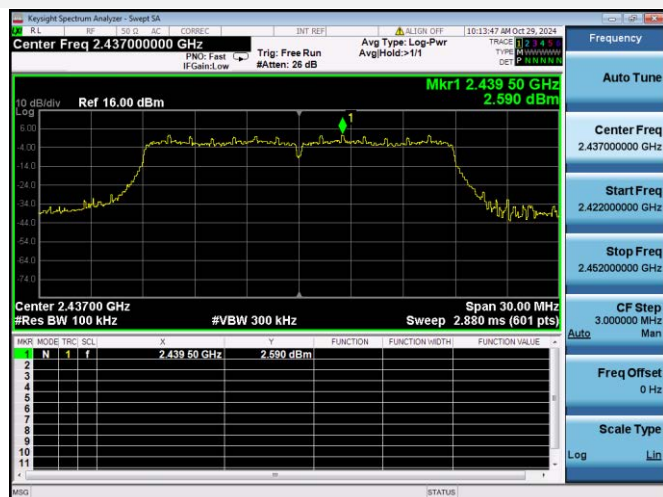
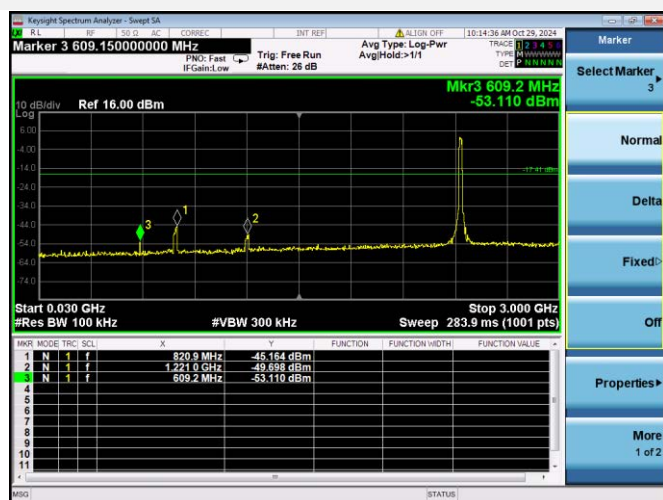
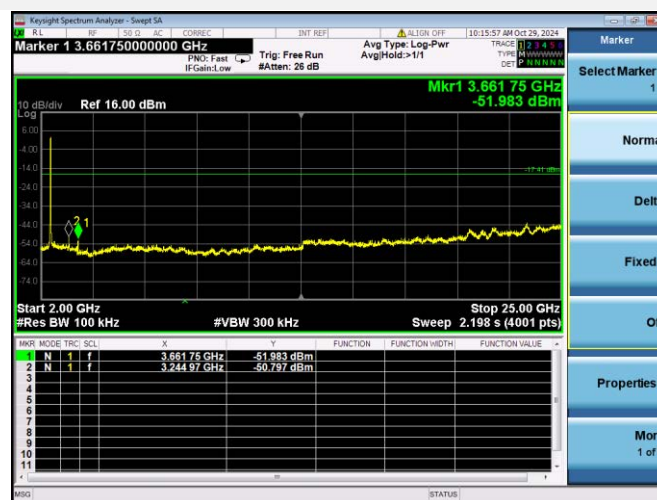
802.11g HIGH CHANNEL CARRIER LEVEL

802.11g HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHz802.11g HIGH CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

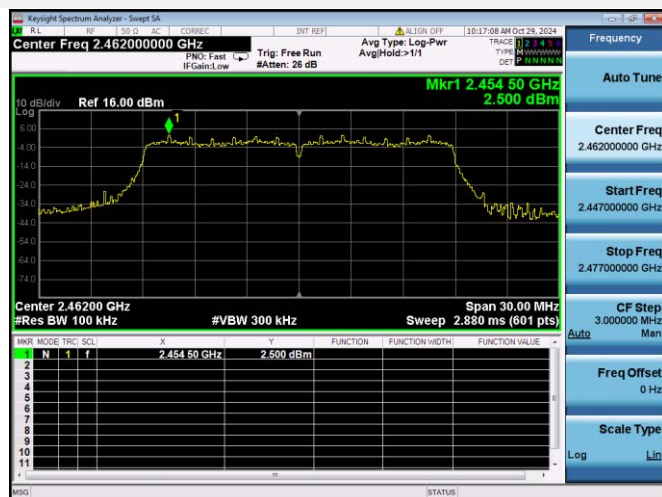
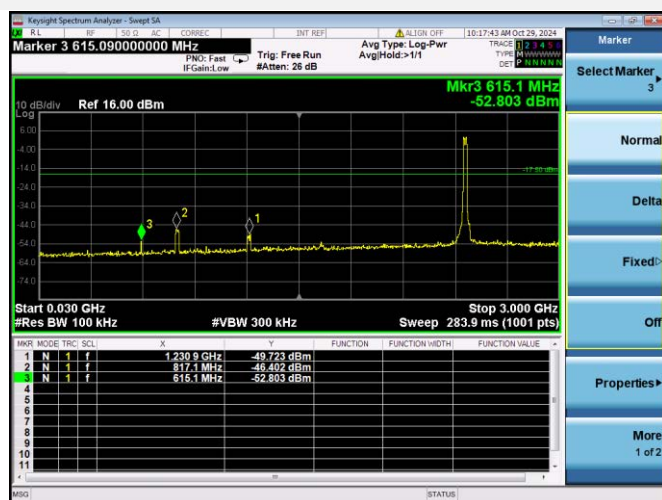
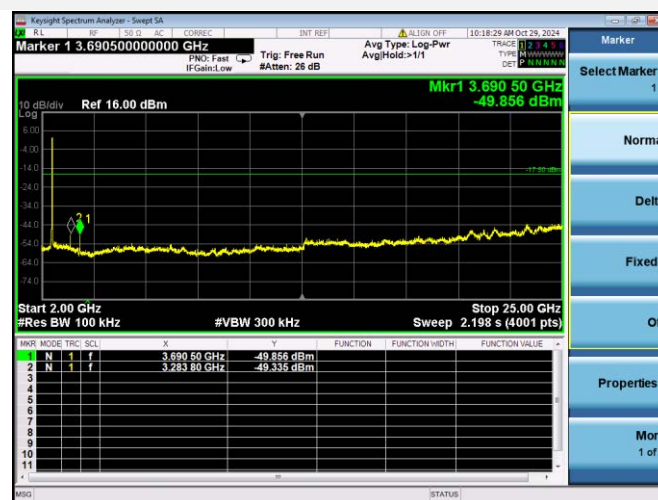
802.11n-20 MHz LOW CHANNEL CARRIER LEVEL

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

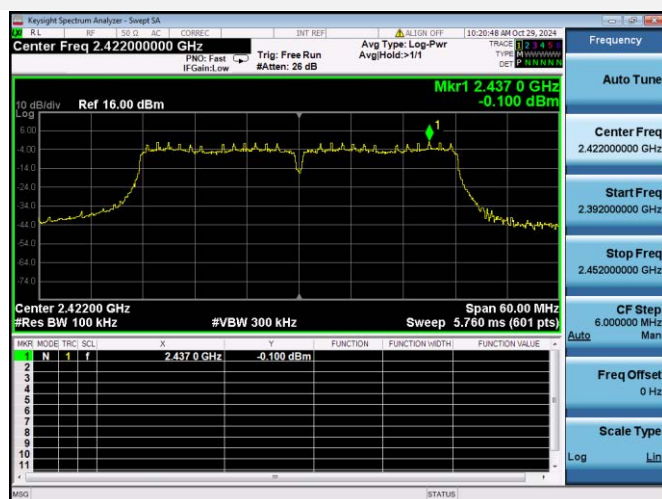
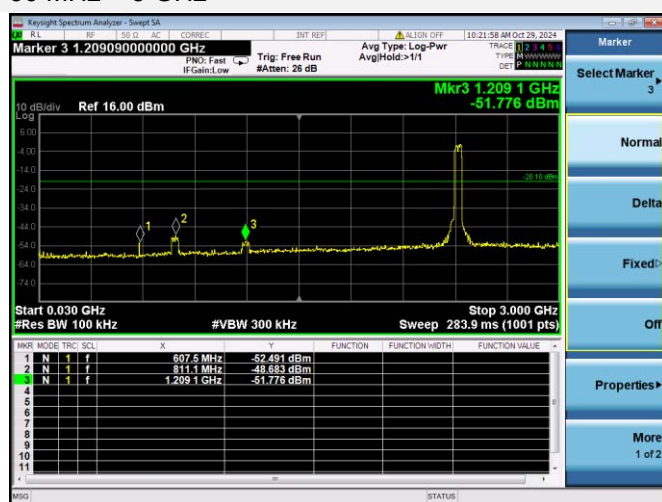
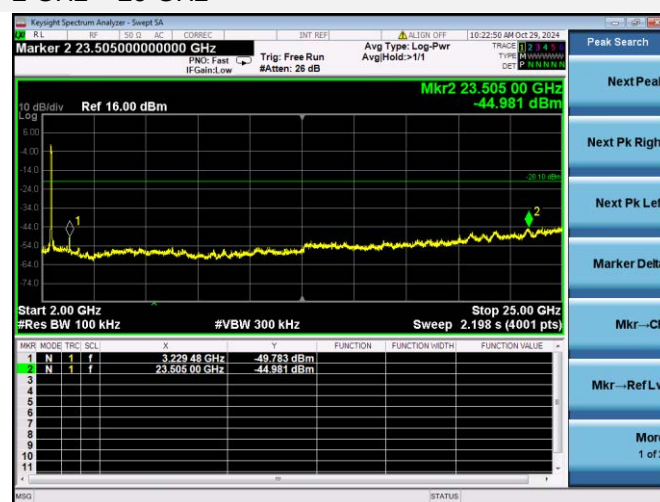
802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL

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

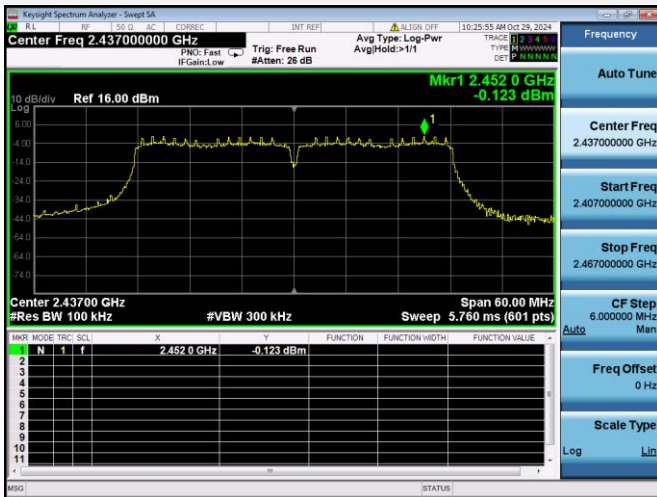
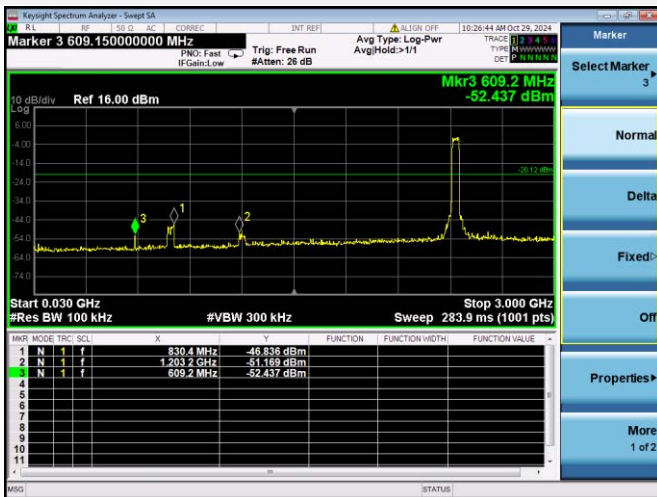
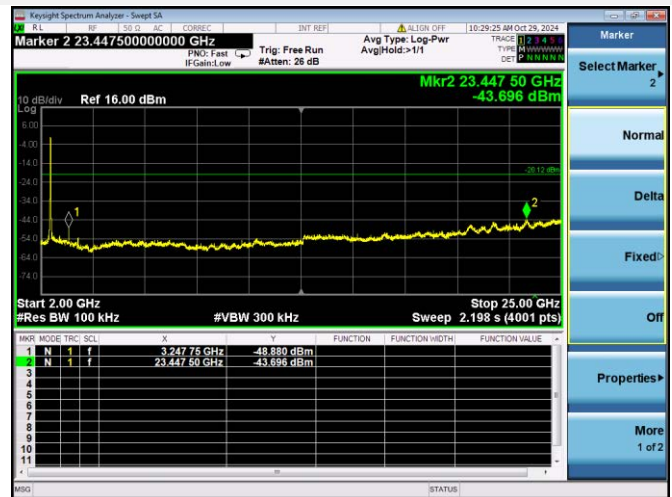
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL

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

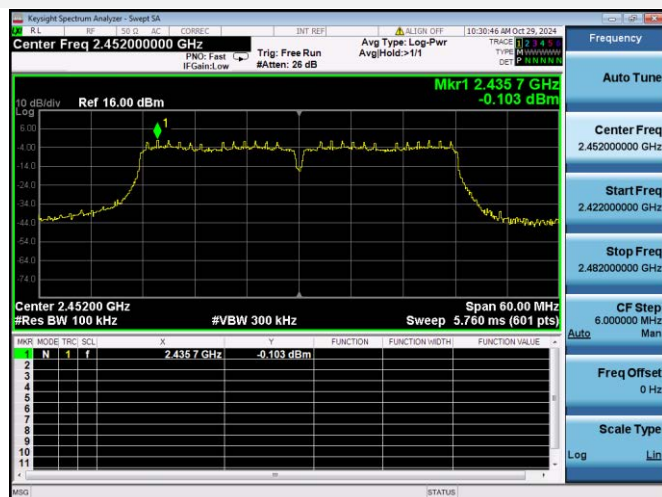
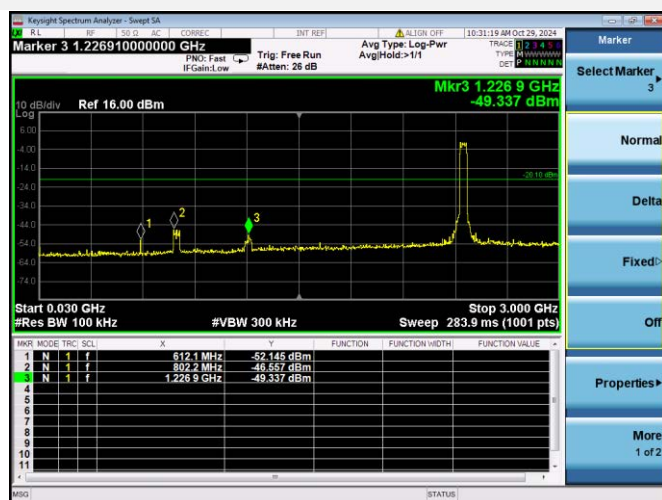
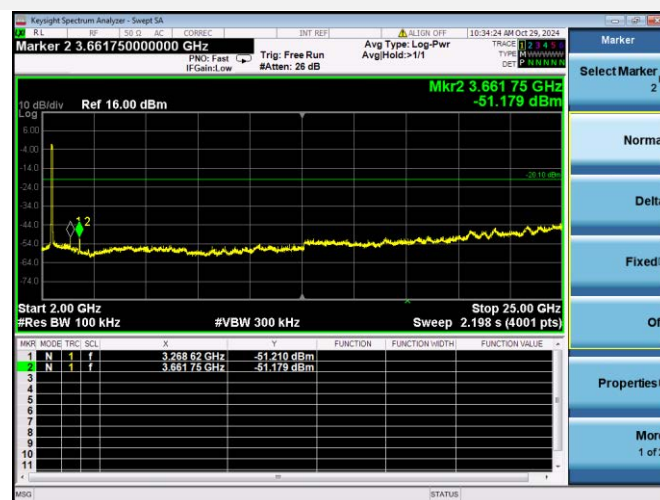
802.11n-40 MHz LOW CHANNEL CARRIER LEVEL

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 GHz802.11n-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 GHz802.11n-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 pre 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 Channel	-38.80	8.29	-11.71	Pass
High Channel	-48.50	8.12	-11.88	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-30.03	4.59	-15.41	Pass
High Channel	-40.07	4.52	-15.48	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-30.81	2.57	-17.43	Pass
High Channel	-38.99	2.50	-17.50	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-35.46	-0.10	-20.10	Pass
High Channel	-41.75	-0.10	-20.10	Pass

Test Plots

802.11b LOW CHANNEL, CARRIER LEVEL



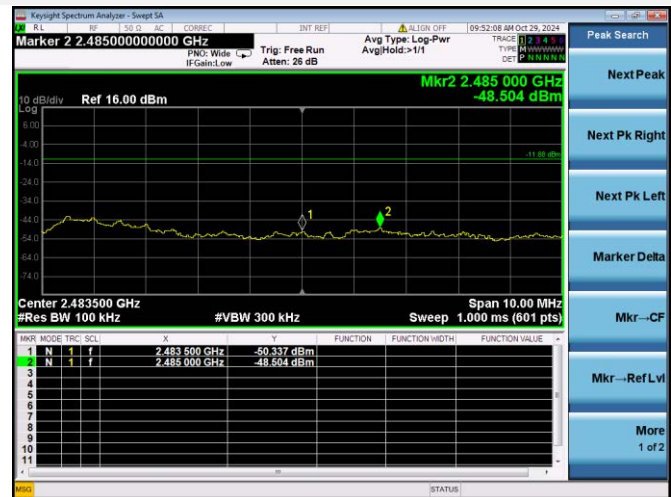
802.11b LOW CHANNEL, BAND EDGE



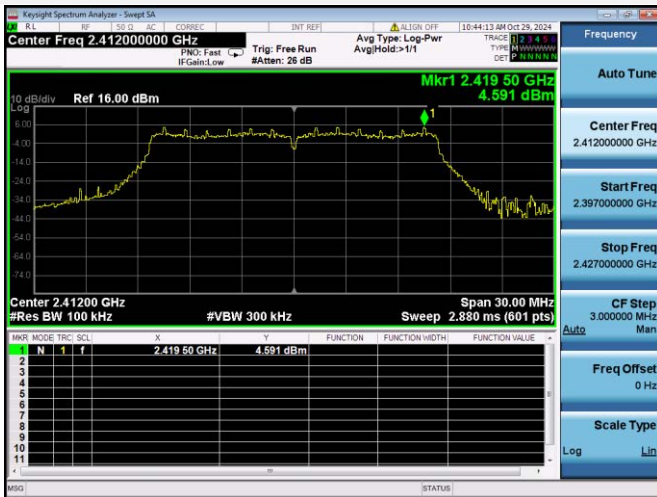
802.11b HIGH CHANNEL, CARRIER LEVEL



802.11b HIGH CHANNEL, BAND EDGE



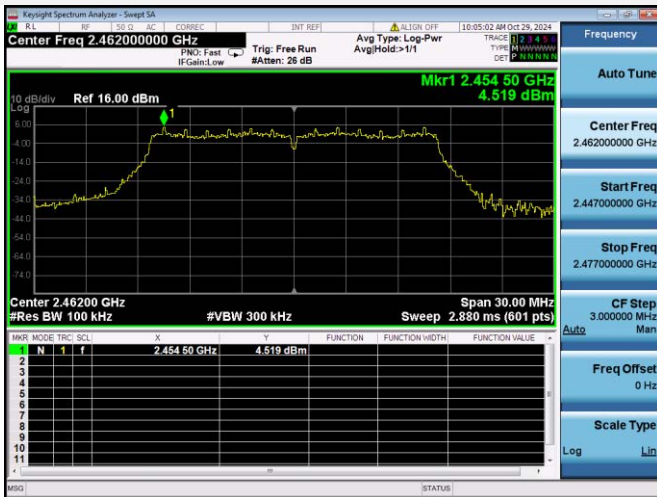
802.11g LOW CHANNEL, CARRIER LEVEL



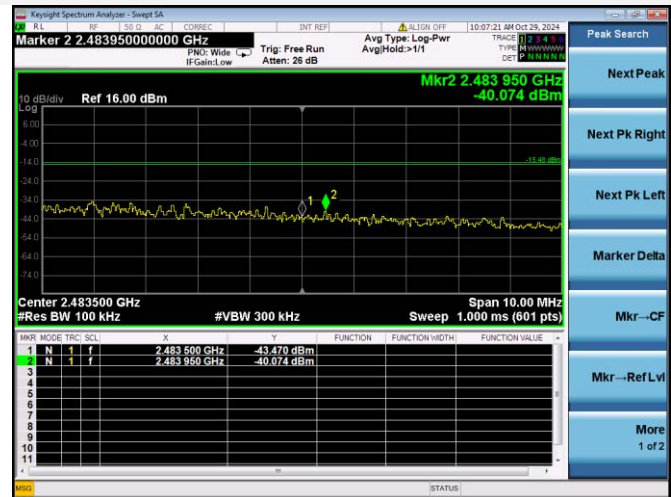
802.11g LOW CHANNEL, BAND EDGE



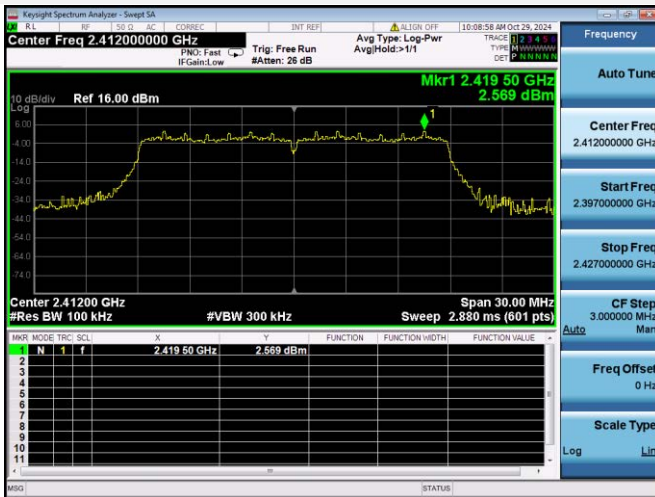
802.11g HIGH CHANNEL, CARRIER LEVEL



802.11g HIGH CHANNEL, BAND EDGE



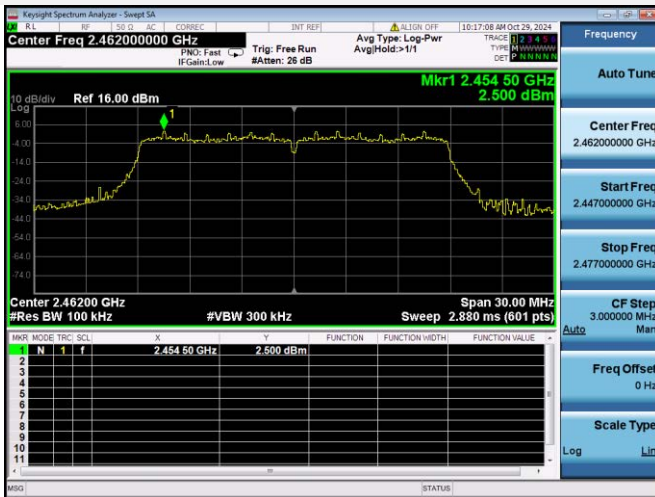
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



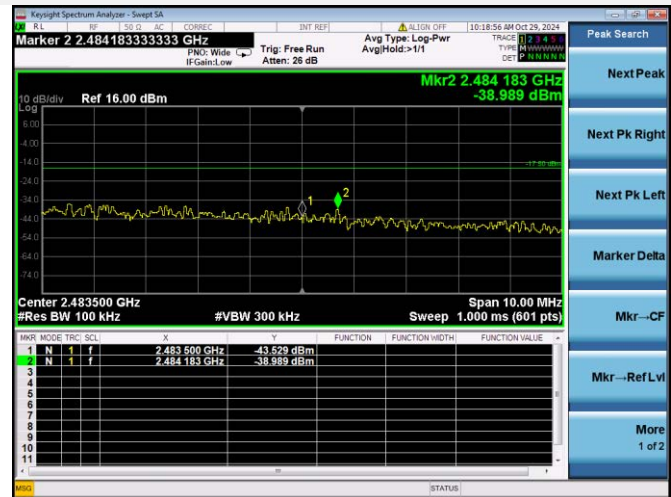
802.11n-20 MHz LOW CHANNEL, BAND EDGE



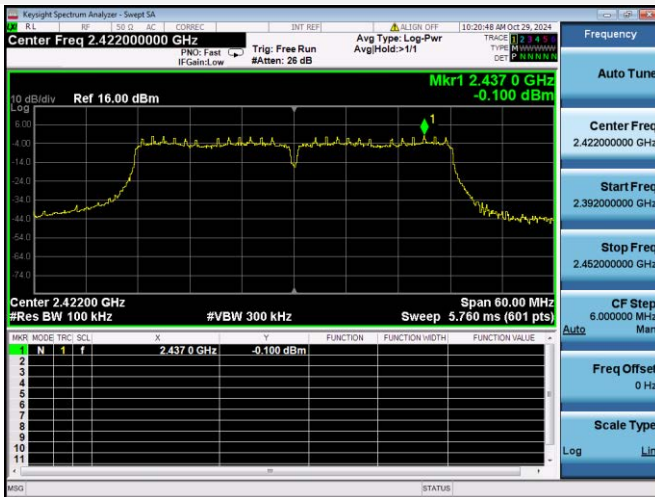
802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-20 MHz HIGH CHANNEL, BAND EDGE



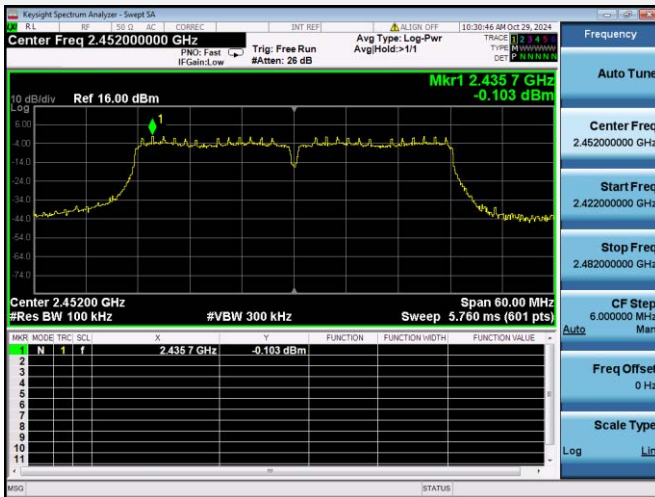
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



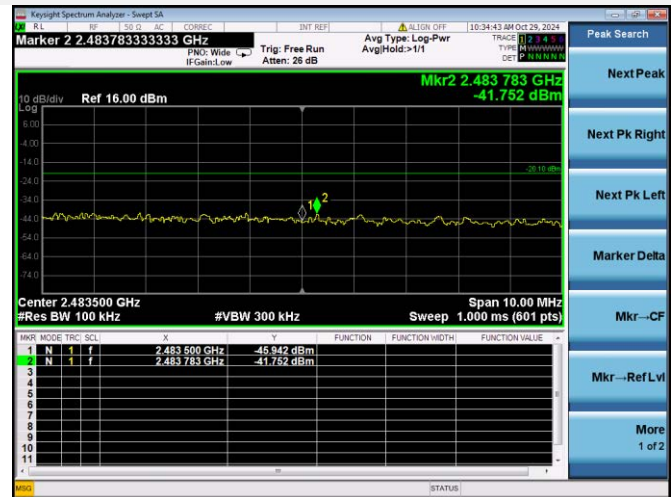
802.11n-40 MHz LOW CHANNEL, BAND EDGE



802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, BAND EDGE



A.5 Conducted Emissions

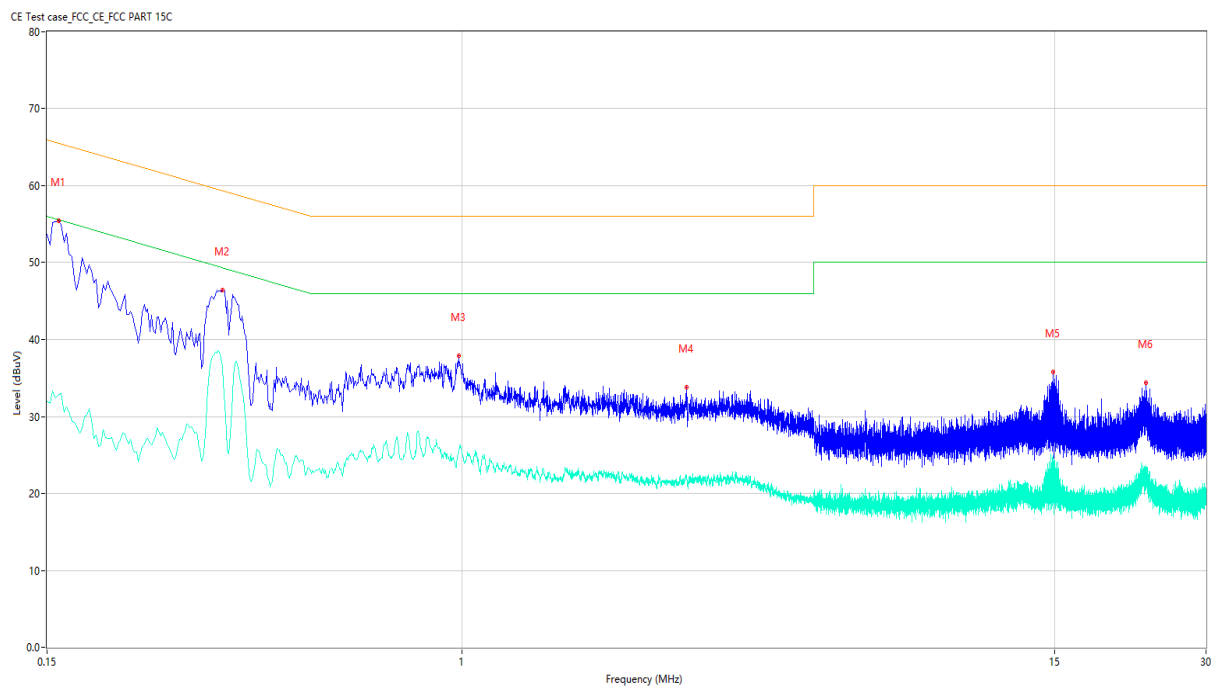
Note ¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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.

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

Test Data and Plots

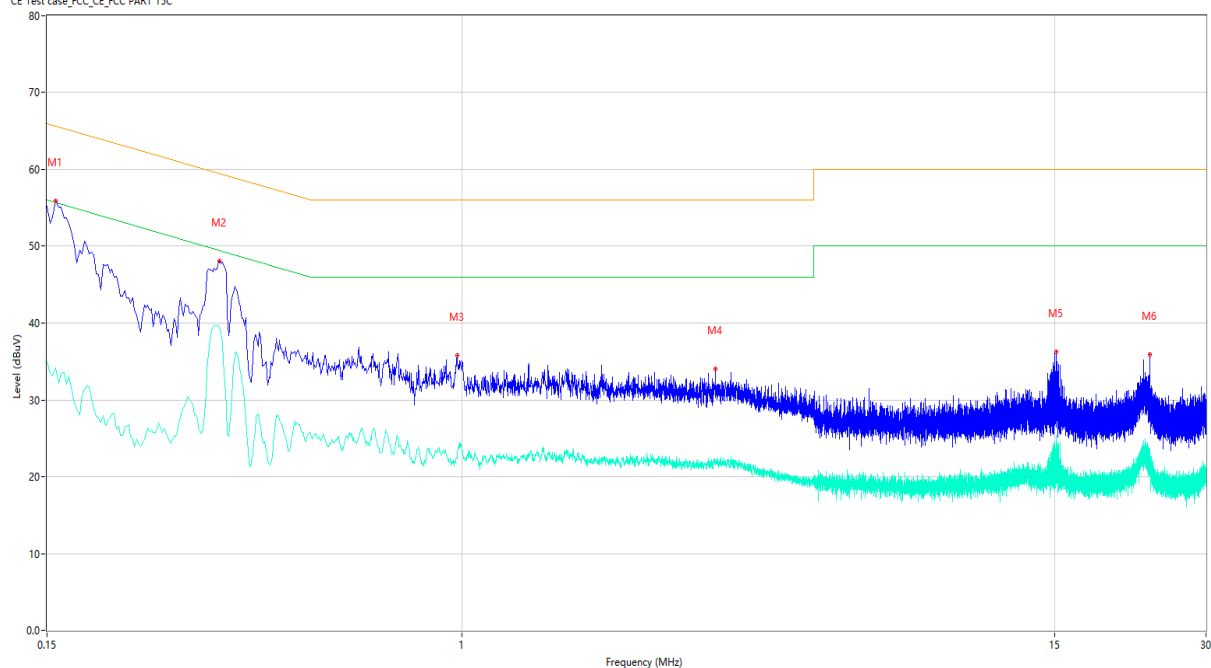
PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.158	55.42	9.75	65.57	10.15	Peak	L	Pass
1**	0.158	32.85	9.75	55.57	22.72	AV	L	Pass
2	0.334	46.44	9.74	59.35	12.91	Peak	L	Pass
2**	0.334	36.44	9.74	49.35	12.91	AV	L	Pass
3	0.984	37.87	9.70	56.00	18.13	Peak	L	Pass
3**	0.984	25.22	9.70	46.00	20.78	AV	L	Pass
4	2.794	33.78	9.67	56.00	22.22	Peak	L	Pass
4**	2.794	21.94	9.67	46.00	24.06	AV	L	Pass
5	14.908	35.84	9.26	60.00	24.16	Peak	L	Pass
5**	14.908	24.97	9.26	50.00	25.03	AV	L	Pass
6	22.824	34.37	8.88	60.00	25.63	Peak	L	Pass
6**	22.824	21.91	8.88	50.00	28.09	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	55.95	9.70	65.67	9.72	Peak	N	Pass
1**	0.156	34.19	9.70	55.67	21.48	AV	N	Pass
2	0.330	48.04	9.77	59.45	11.41	Peak	N	Pass
2**	0.330	39.50	9.77	49.45	9.95	AV	N	Pass
3	0.978	35.80	9.86	56.00	20.20	Peak	N	Pass
3**	0.978	22.34	9.86	46.00	23.66	AV	N	Pass
4	3.184	34.02	9.85	56.00	21.98	Peak	N	Pass
4**	3.184	21.56	9.85	46.00	24.44	AV	N	Pass
5	15.116	36.29	9.51	60.00	23.71	Peak	N	Pass
5**	15.116	25.44	9.51	50.00	24.56	AV	N	Pass
6	23.194	35.88	9.03	60.00	24.12	Peak	N	Pass
6**	23.194	21.84	9.03	50.00	28.16	AV	N	Pass

A.6 Radiated Emission

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

Note²: For the test data above 1 GHz, According the ANSI C63.10-2013, 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.

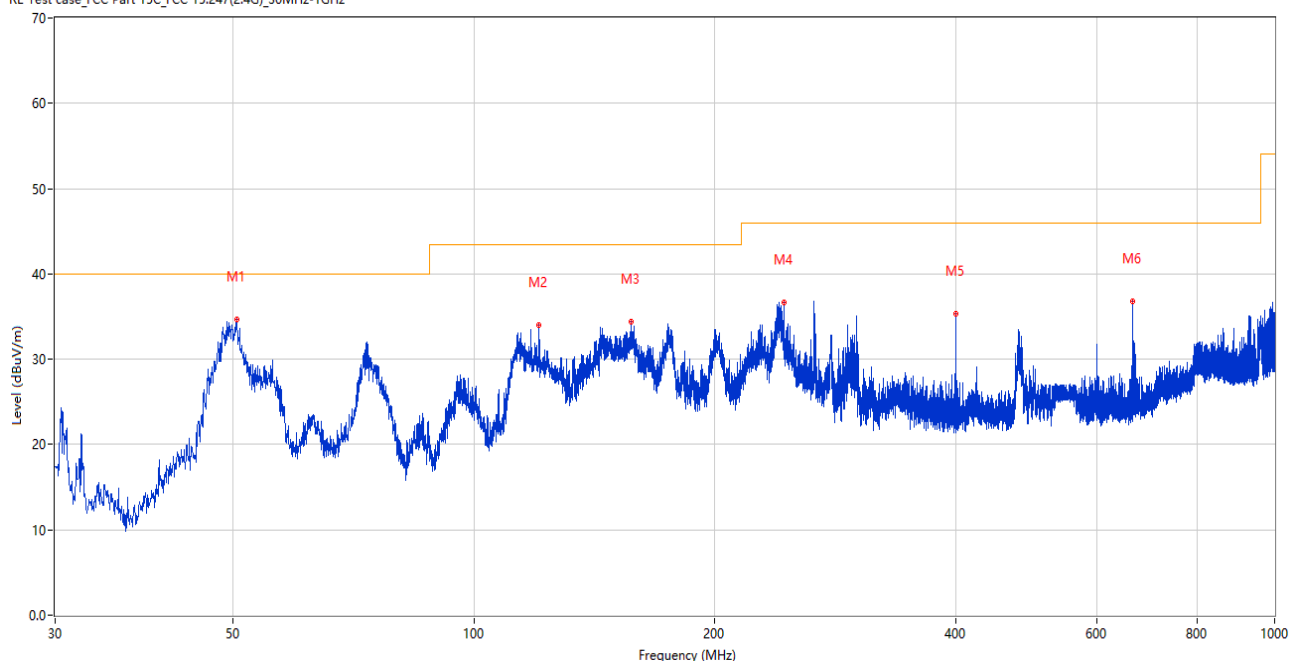
Note³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note⁴: 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

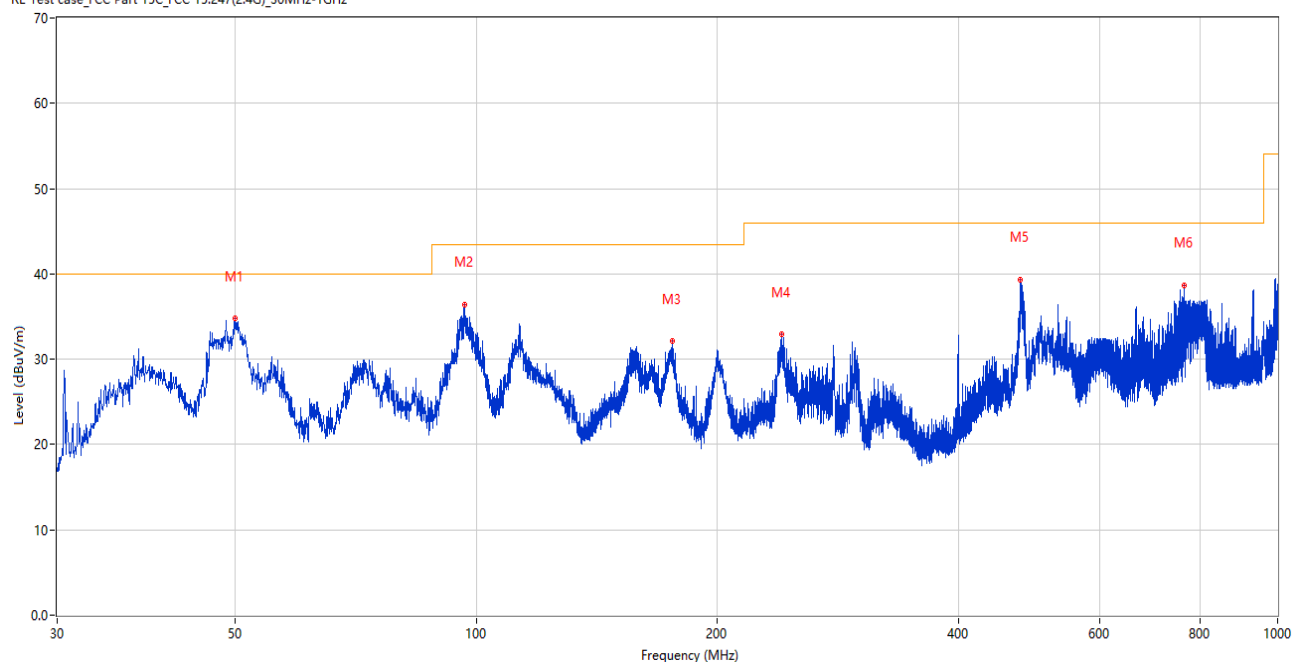
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	50.612	34.69	-24.56	40.0	5.31	Peak	66.00	200	Horizontal	Pass
2	120.646	33.95	-28.29	43.5	9.55	Peak	59.00	200	Horizontal	Pass
3	157.167	34.46	-29.07	43.5	9.04	Peak	145.00	200	Horizontal	Pass
4	243.982	36.72	-24.27	46.0	9.28	Peak	47.00	100	Horizontal	Pass
5	400.006	35.35	-20.42	46.0	10.65	Peak	360.00	100	Horizontal	Pass
6	665.399	36.80	-14.39	46.0	9.20	Peak	199.00	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	49.982	34.74	-24.51	40.0	5.26	Peak	323.00	100	Vertical	Pass
2	96.639	36.41	-26.42	43.5	7.09	Peak	231.00	100	Vertical	Pass
3	175.888	32.12	-28.20	43.5	11.38	Peak	262.00	100	Vertical	Pass
4	240.296	32.90	-24.46	46.0	13.10	Peak	360.00	100	Vertical	Pass
5	477.752	39.32	-18.76	46.0	6.68	Peak	158.00	100	Vertical	Pass
6	763.659	38.61	-11.99	46.0	7.39	Peak	360.00	100	Vertical	Pass

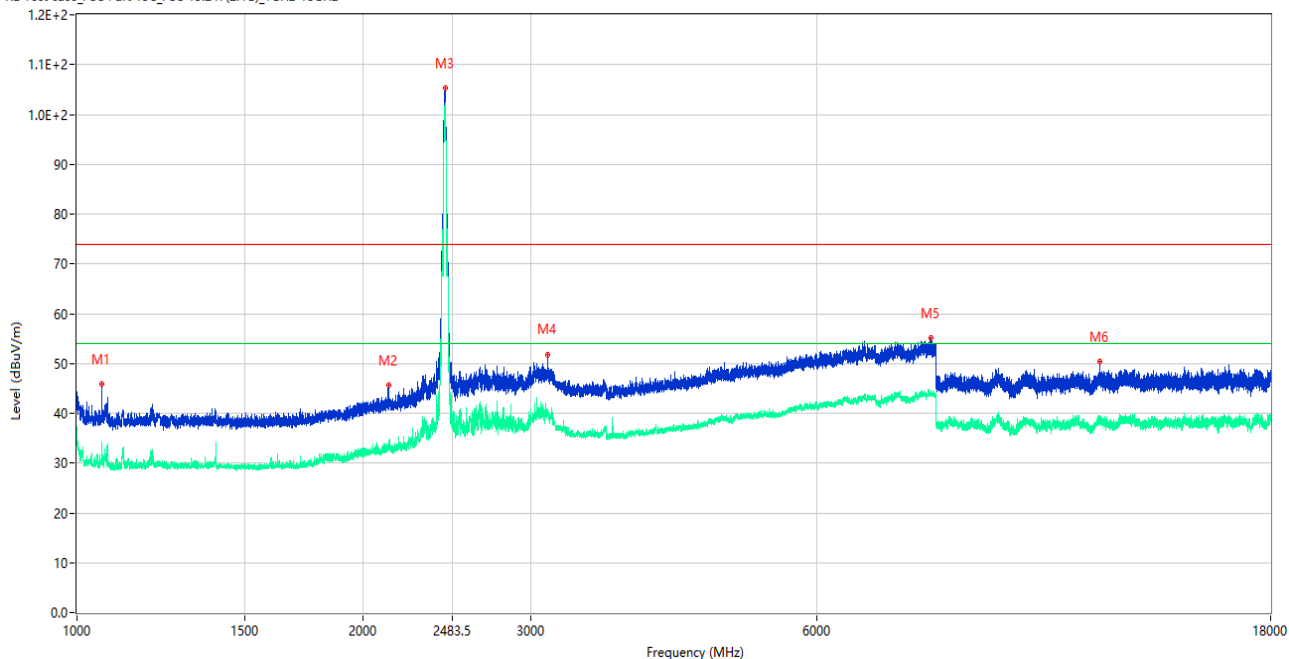
Note¹: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note²: The spurious above 18G is noise only, do not show on the report.

Note³: 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

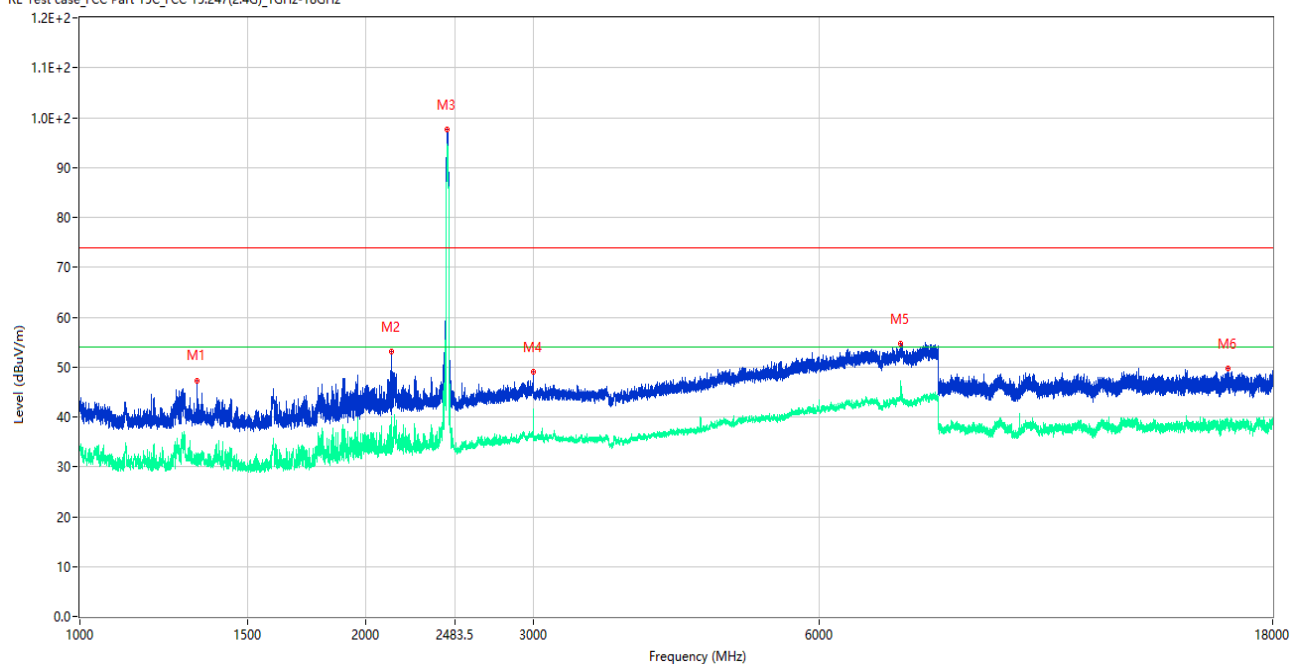
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1062.000	45.87	-14.33	74.0	28.13	Peak	185.00	150	Horizontal	Pass
1**	1062.000	30.51	-14.33	54.0	23.49	AV	185.00	150	Horizontal	Pass
2	2129.500	45.66	-11.99	74.0	28.34	Peak	83.00	150	Horizontal	Pass
2**	2129.500	33.02	-11.99	54.0	20.98	AV	83.00	150	Horizontal	Pass
3	2438.500	105.30	-11.32	74.0	-31.30	Peak	193.00	150	Horizontal	N/A
3**	2438.500	102.06	-11.32	54.0	-48.06	AV	193.00	150	Horizontal	N/A
4	3124.000	51.83	-6.07	74.0	22.17	Peak	218.00	150	Horizontal	Pass
4**	3124.000	39.62	-6.07	54.0	14.38	AV	218.00	150	Horizontal	Pass
5	7913.000	55.16	3.56	74.0	18.84	Peak	337.00	150	Horizontal	Pass
5**	7913.000	43.77	3.56	54.0	10.23	AV	337.00	150	Horizontal	Pass
6	11909.500	50.47	-0.98	74.0	23.53	Peak	360.00	150	Horizontal	Pass
6**	11909.500	38.34	-0.98	54.0	15.66	AV	360.00	150	Horizontal	Pass

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

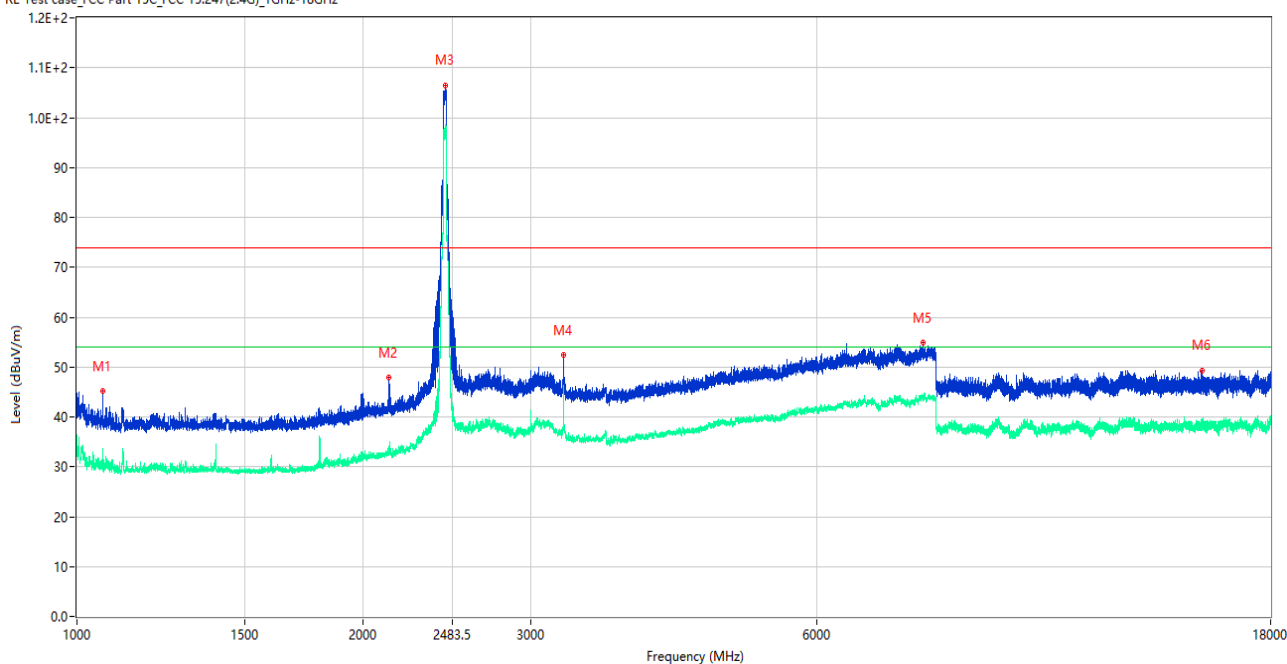
RE Test case_FCC Part 15C FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1327.000	47.34	-15.00	74.0	26.66	Peak	115.00	150	Vertical	Pass
1**	1327.000	32.45	-15.00	54.0	21.55	AV	115.00	150	Vertical	Pass
2	2128.500	53.00	-11.99	74.0	21.00	Peak	115.00	150	Vertical	Pass
2**	2128.500	33.28	-11.99	54.0	20.72	AV	115.00	150	Vertical	Pass
3	2435.500	97.59	-11.26	74.0	-23.59	Peak	132.00	150	Vertical	N/A
3**	2435.500	94.67	-11.26	54.0	-40.67	AV	132.00	150	Vertical	N/A
4	3000.000	49.00	-7.46	74.0	25.00	Peak	110.00	150	Vertical	Pass
4**	3000.000	41.59	-7.46	54.0	12.41	AV	110.00	150	Vertical	Pass
5	7314.000	54.68	2.63	74.0	19.32	Peak	331.00	150	Vertical	Pass
5**	7314.000	45.90	2.63	54.0	8.10	AV	331.00	150	Vertical	Pass
6	16156.500	49.62	1.72	74.0	24.38	Peak	69.00	150	Vertical	Pass
6**	16156.500	38.20	1.72	54.0	15.80	AV	69.00	150	Vertical	Pass

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

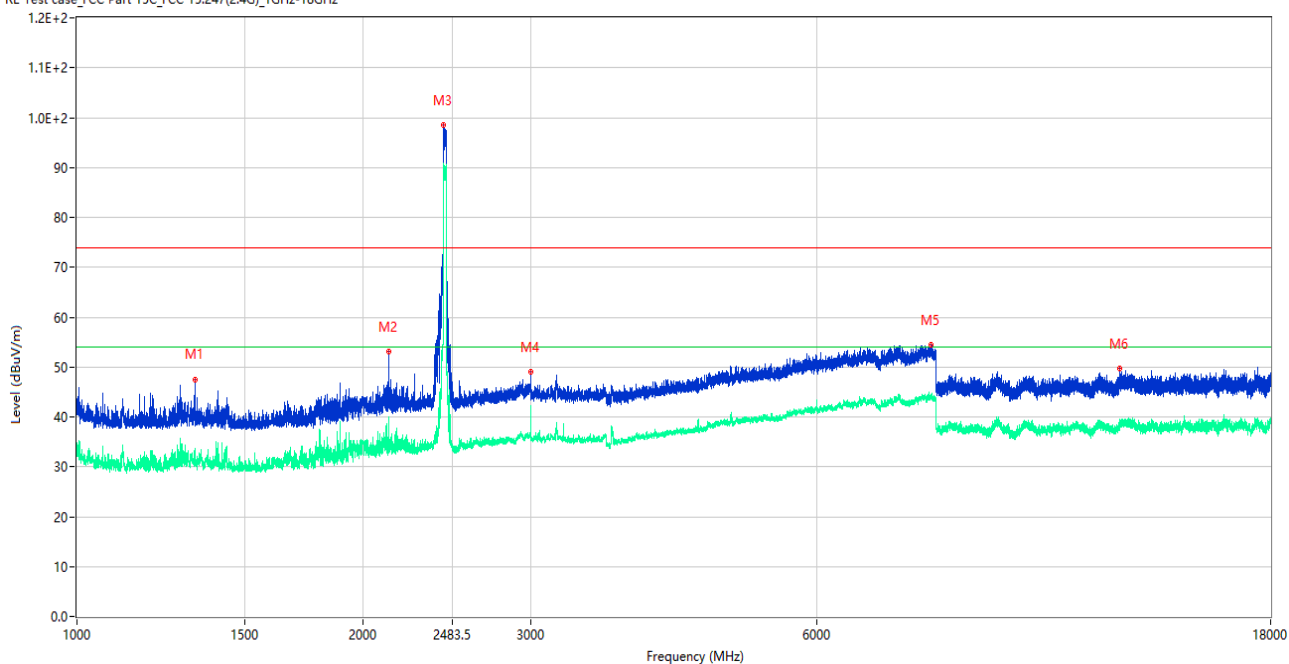
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1065.500	45.22	-14.25	74.0	28.78	Peak	174.00	150	Horizontal	Pass
1**	1065.500	29.21	-14.25	54.0	24.79	AV	174.00	150	Horizontal	Pass
2	2130.000	47.87	-11.99	74.0	26.13	Peak	148.00	150	Horizontal	Pass
2**	2130.000	32.51	-11.99	54.0	21.49	AV	148.00	150	Horizontal	Pass
3	2439.250	106.54	-11.33	74.0	-32.54	Peak	193.00	150	Horizontal	N/A
3**	2439.250	97.87	-11.33	54.0	-43.87	AV	193.00	150	Horizontal	N/A
4	3249.000	52.42	-6.59	74.0	21.58	Peak	237.00	150	Horizontal	Pass
4**	3249.000	42.88	-6.59	54.0	11.12	AV	237.00	150	Horizontal	Pass
5	7750.000	54.93	3.64	74.0	19.07	Peak	218.00	150	Horizontal	Pass
5**	7750.000	43.83	3.64	54.0	10.17	AV	218.00	150	Horizontal	Pass
6	15251.500	49.37	1.95	74.0	24.63	Peak	100.00	150	Horizontal	Pass
6**	15251.500	38.16	1.95	54.0	15.84	AV	100.00	150	Horizontal	Pass

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

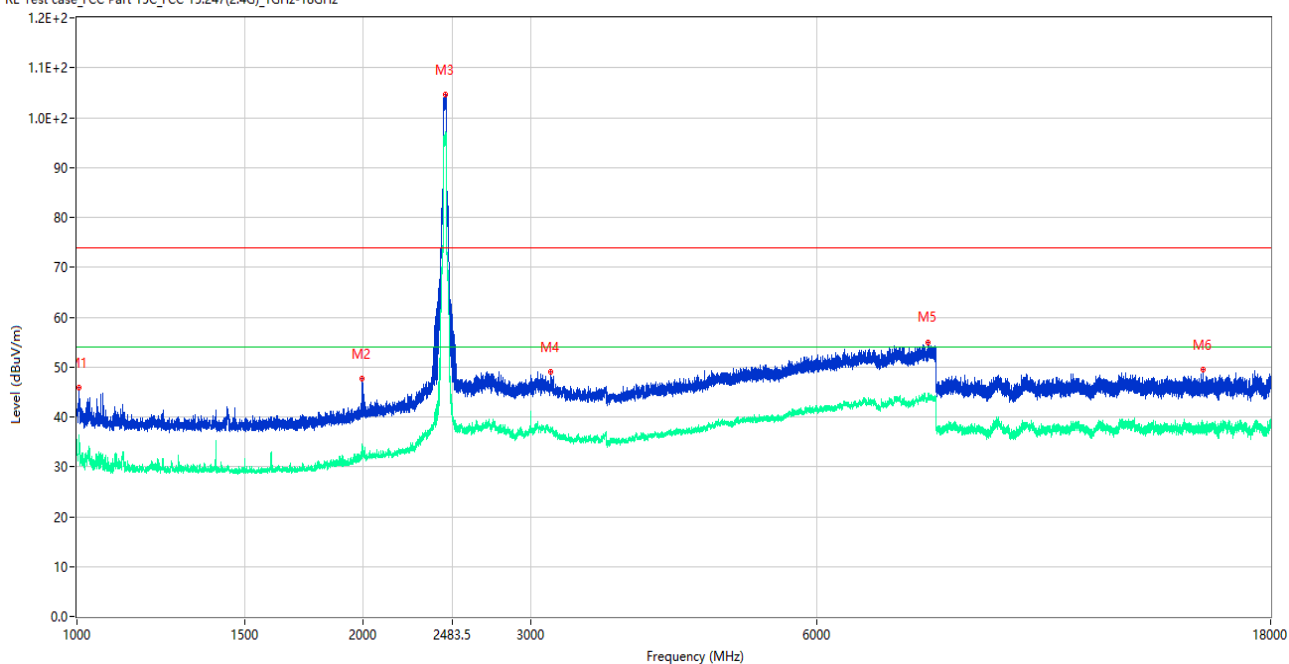
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.750	47.55	-15.03	74.0	26.45	Peak	95.00	150	Vertical	Pass
1**	1331.750	31.05	-15.03	54.0	22.95	AV	95.00	150	Vertical	Pass
2	2126.000	53.05	-12.01	74.0	20.95	Peak	114.00	150	Vertical	Pass
2**	2126.000	33.84	-12.01	54.0	20.16	AV	114.00	150	Vertical	Pass
3	2429.750	98.60	-11.13	74.0	-24.60	Peak	132.00	150	Vertical	N/A
3**	2429.750	90.93	-11.13	54.0	-36.93	AV	132.00	150	Vertical	N/A
4	2999.500	49.06	-7.46	74.0	24.94	Peak	86.00	150	Vertical	Pass
4**	2999.500	39.36	-7.46	54.0	14.64	AV	86.00	150	Vertical	Pass
5	7914.000	54.42	3.56	74.0	19.58	Peak	303.00	150	Vertical	Pass
5**	7914.000	44.49	3.56	54.0	9.51	AV	303.00	150	Vertical	Pass
6	12491.500	49.61	0.16	74.0	24.39	Peak	360.00	150	Vertical	Pass
6**	12491.500	38.90	0.16	54.0	15.10	AV	360.00	150	Vertical	Pass

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

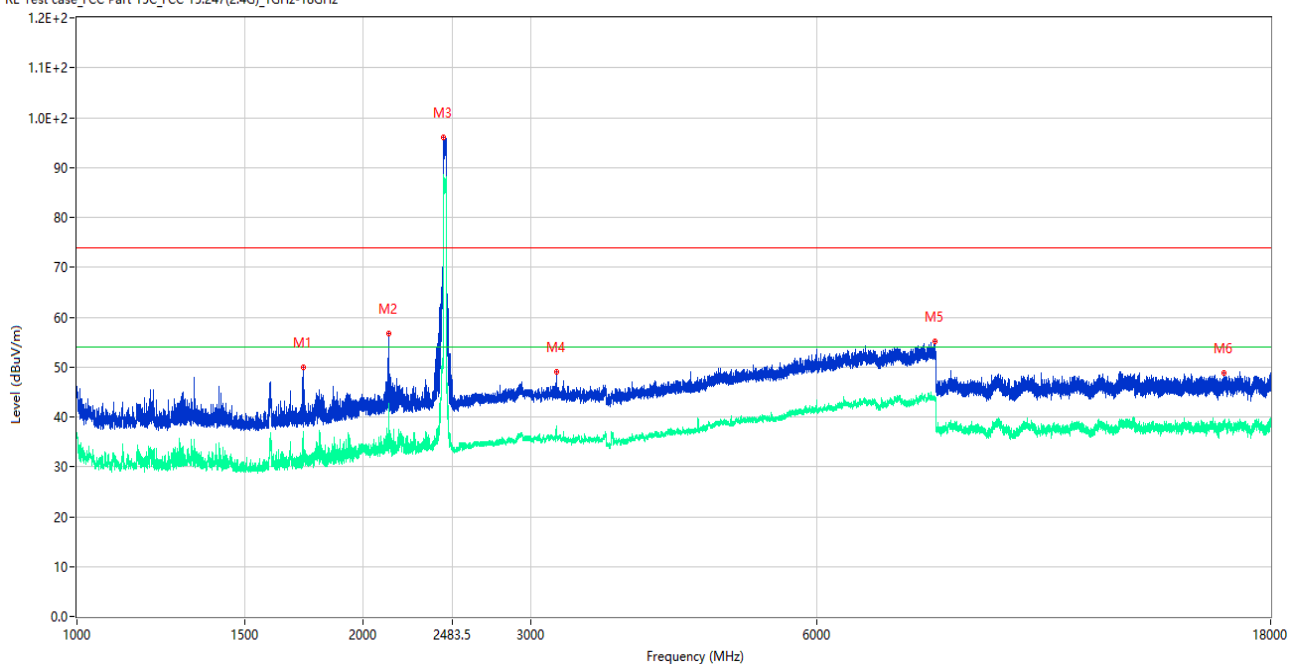
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1005.750	45.85	-13.34	74.0	28.15	Peak	102.00	150	Horizontal	Pass
1**	1005.750	35.65	-13.34	54.0	18.35	AV	102.00	150	Horizontal	Pass
2	1992.250	47.72	-13.46	74.0	26.28	Peak	176.00	150	Horizontal	Pass
2**	1992.250	32.66	-13.46	54.0	21.34	AV	176.00	150	Horizontal	Pass
3	2439.250	104.59	-11.33	74.0	-30.59	Peak	191.00	150	Horizontal	N/A
3**	2439.250	96.99	-11.33	54.0	-42.99	AV	191.00	150	Horizontal	N/A
4	3148.500	48.96	-5.91	74.0	25.04	Peak	237.00	150	Horizontal	Pass
4**	3148.500	37.74	-5.91	54.0	16.26	AV	237.00	150	Horizontal	Pass
5	7861.000	55.01	3.86	74.0	18.99	Peak	278.00	150	Horizontal	Pass
5**	7861.000	43.99	3.86	54.0	10.01	AV	278.00	150	Horizontal	Pass
6	15271.999	49.42	1.91	74.0	24.58	Peak	360.00	150	Horizontal	Pass
6**	15271.999	38.60	1.91	54.0	15.40	AV	360.00	150	Horizontal	Pass

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

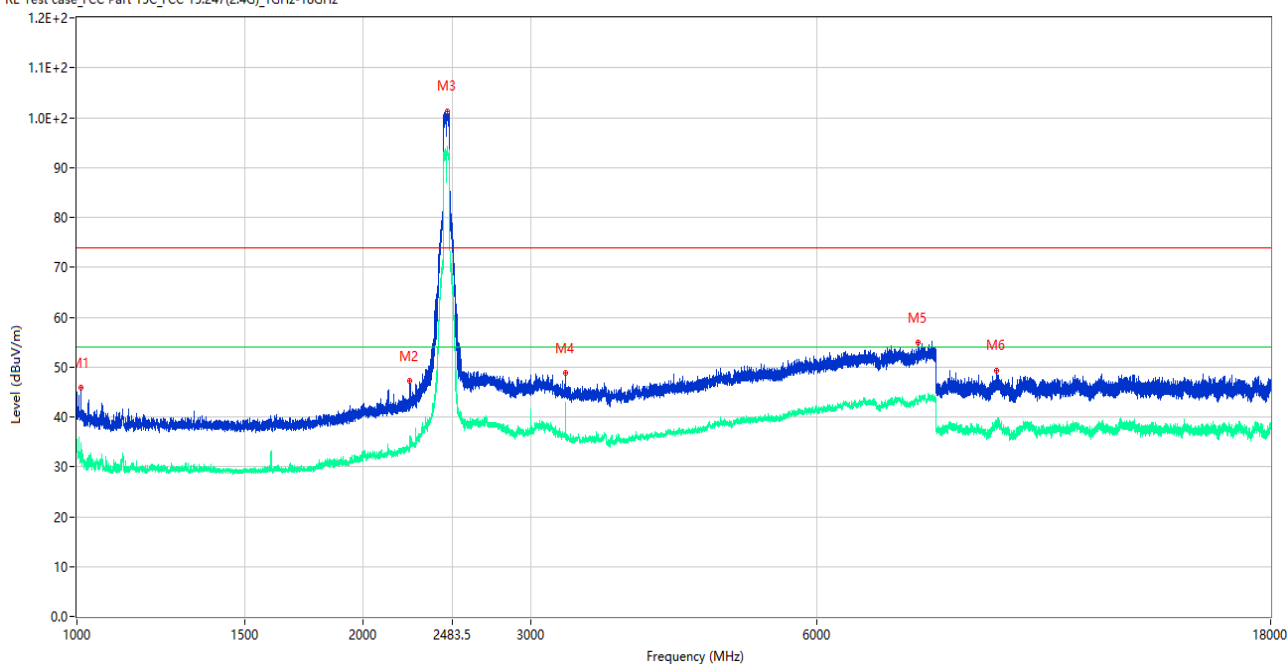
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1728.750	50.01	-15.00	74.0	23.99	Peak	74.00	150	Vertical	Pass
1**	1728.750	32.23	-15.00	54.0	21.77	AV	74.00	150	Vertical	Pass
2	2129.000	56.64	-11.99	74.0	17.36	Peak	93.00	150	Vertical	Pass
2**	2129.000	37.64	-11.99	54.0	16.36	AV	93.00	150	Vertical	Pass
3	2429.750	96.00	-11.13	74.0	-22.00	Peak	130.00	150	Vertical	N/A
3**	2429.750	88.26	-11.13	54.0	-34.26	AV	130.00	150	Vertical	N/A
4	3194.500	49.00	-6.59	74.0	25.00	Peak	72.00	150	Vertical	Pass
4**	3194.500	36.80	-6.59	54.0	17.20	AV	72.00	150	Vertical	Pass
5	7976.000	55.10	3.73	74.0	18.90	Peak	121.00	150	Vertical	Pass
5**	7976.000	43.79	3.73	54.0	10.21	AV	121.00	150	Vertical	Pass
6	16070.500	48.82	1.90	74.0	25.18	Peak	11.00	150	Vertical	Pass
6**	16070.500	38.32	1.90	54.0	15.68	AV	11.00	150	Vertical	Pass

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

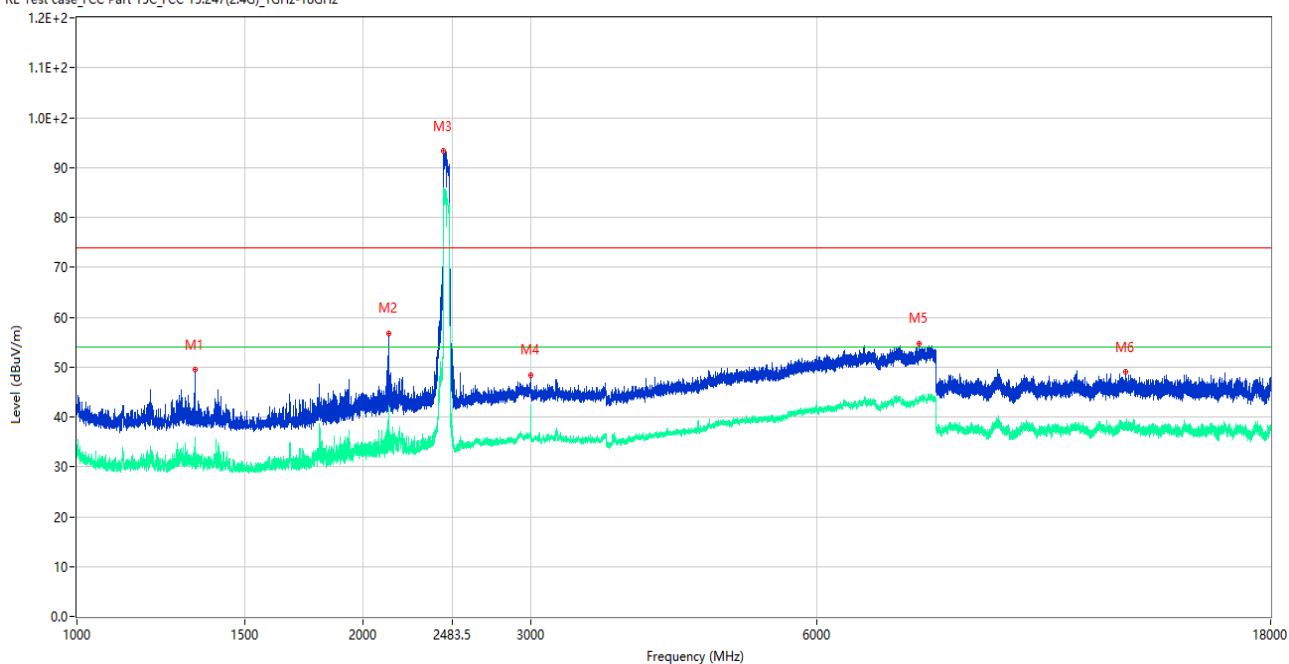
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1010.500	45.78	-13.39	74.0	28.22	Peak	118.00	150	Horizontal	Pass
1**	1010.500	31.01	-13.39	54.0	22.99	AV	118.00	150	Horizontal	Pass
2	2238.500	47.24	-11.83	74.0	26.76	Peak	205.00	150	Horizontal	Pass
2**	2238.500	33.98	-11.83	54.0	20.02	AV	205.00	150	Horizontal	Pass
3	2454.000	101.21	-11.31	74.0	-27.21	Peak	200.00	150	Horizontal	N/A
3**	2454.000	93.41	-11.31	54.0	-39.41	AV	200.00	150	Horizontal	N/A
4	3263.000	48.84	-6.21	74.0	25.16	Peak	209.00	150	Horizontal	Pass
4**	3263.000	43.00	-6.21	54.0	11.00	AV	209.00	150	Horizontal	Pass
5	7668.000	54.89	3.04	74.0	19.11	Peak	68.00	150	Horizontal	Pass
5**	7668.000	42.96	3.04	54.0	11.04	AV	68.00	150	Horizontal	Pass
6	9261.500	49.35	-2.15	74.0	24.65	Peak	39.00	150	Horizontal	Pass
6**	9261.500	38.60	-2.15	54.0	15.40	AV	39.00	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	1332.000	49.42	-15.03	74.0	24.58	Peak	111.00	150	Vertical	Pass
1**	1332.000	30.35	-15.03	54.0	23.65	AV	111.00	150	Vertical	Pass
2	2127.500	56.82	-11.99	74.0	17.18	Peak	119.00	150	Vertical	Pass
2**	2127.500	33.77	-11.99	54.0	20.23	AV	119.00	150	Vertical	Pass
3	2430.750	93.34	-11.15	74.0	-19.34	Peak	138.00	150	Vertical	N/A
3**	2430.750	85.42	-11.15	54.0	-31.42	AV	138.00	150	Vertical	N/A
4	3000.000	48.46	-7.46	74.0	25.54	Peak	115.00	150	Vertical	Pass
4**	3000.000	41.97	-7.46	54.0	12.03	AV	115.00	150	Vertical	Pass
5	7683.500	54.78	3.36	74.0	19.22	Peak	36.00	150	Vertical	Pass
5**	7683.500	43.31	3.36	54.0	10.69	AV	36.00	150	Vertical	Pass
6	12658.000	48.96	-0.20	74.0	25.04	Peak	321.00	150	Vertical	Pass
6**	12658.000	38.08	-0.20	54.0	15.92	AV	321.00	150	Vertical	Pass

A.7 Band Edge (Restricted-band band-edge)

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

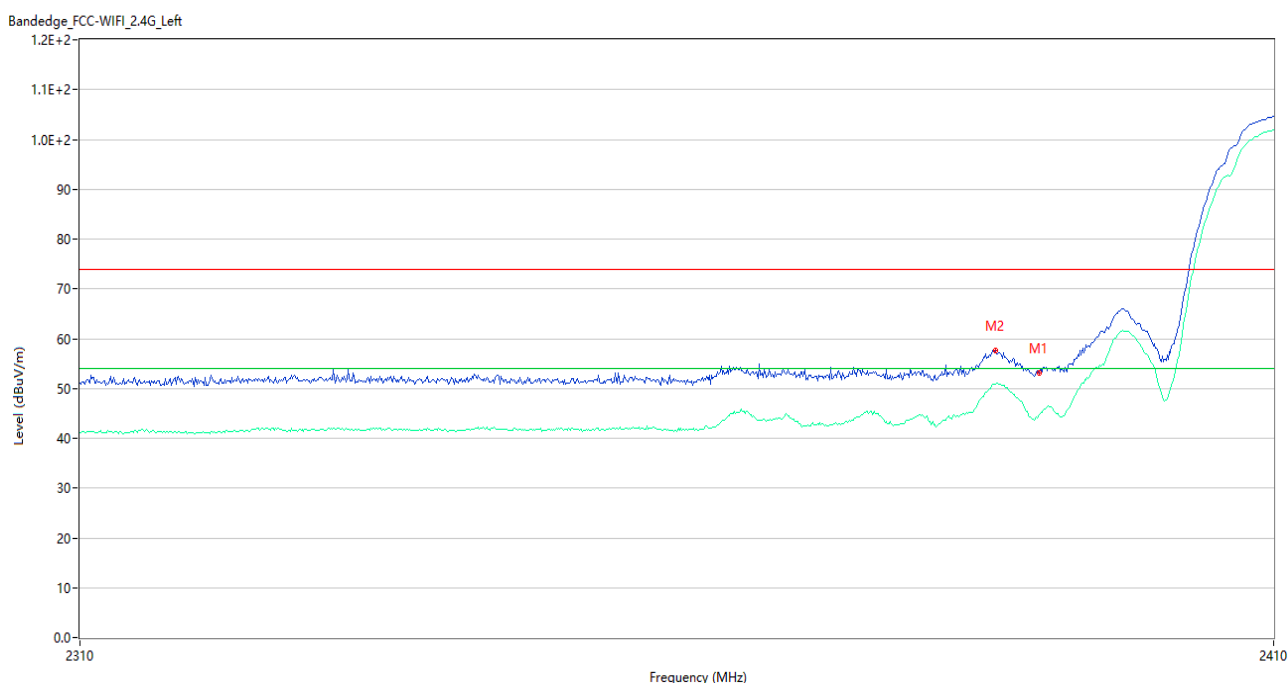
Note²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note³: According the ANSI C63.10-2013, 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.

Note⁴: All antenna were pre tested, but only the worst case has been reported in this report.

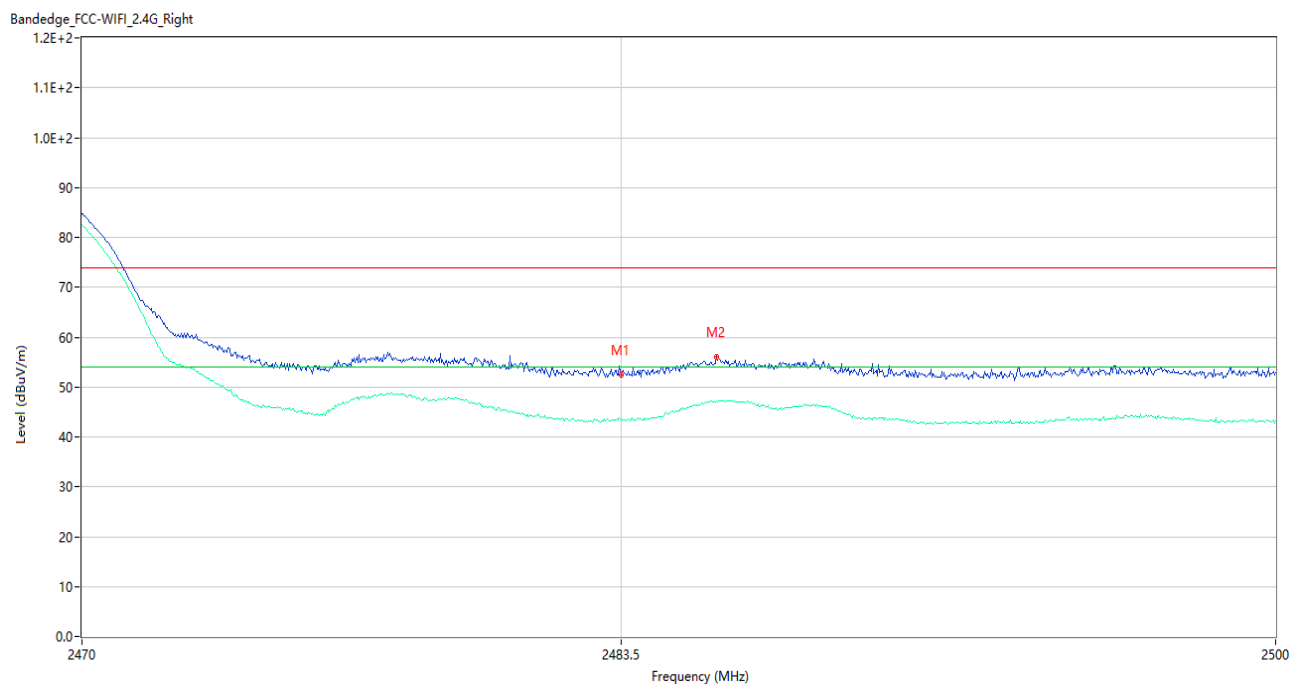
Test Data and Plots

802.11b LOW CHANNEL



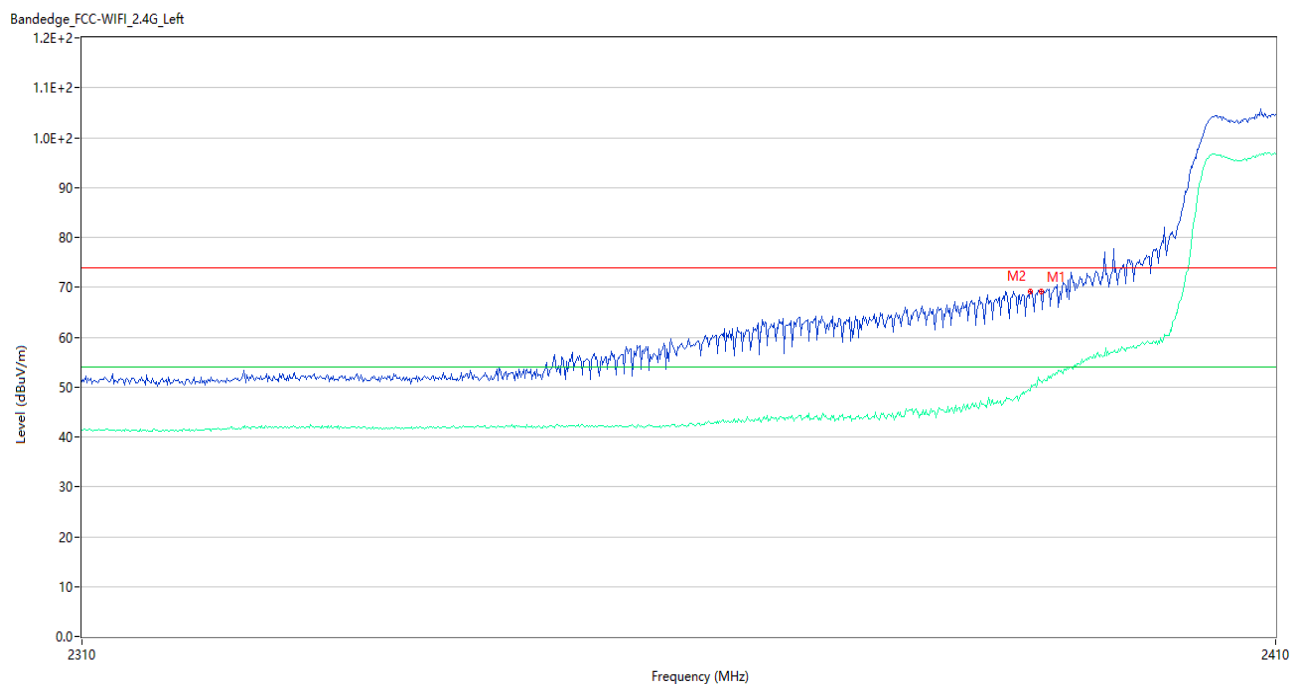
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	53.17	-3.73	74.0	20.83	Peak	203.98	150	Horizontal	Pass
1**	2390.000	44.74	-3.73	54.0	9.26	AV	203.98	150	Horizontal	Pass
2	2386.300	57.52	-3.53	74.0	16.48	Peak	204.00	150	Horizontal	Pass
2**	2386.300	50.91	-3.53	54.0	3.09	AV	204.00	150	Horizontal	Pass

802.11b HIGH CHANNEL



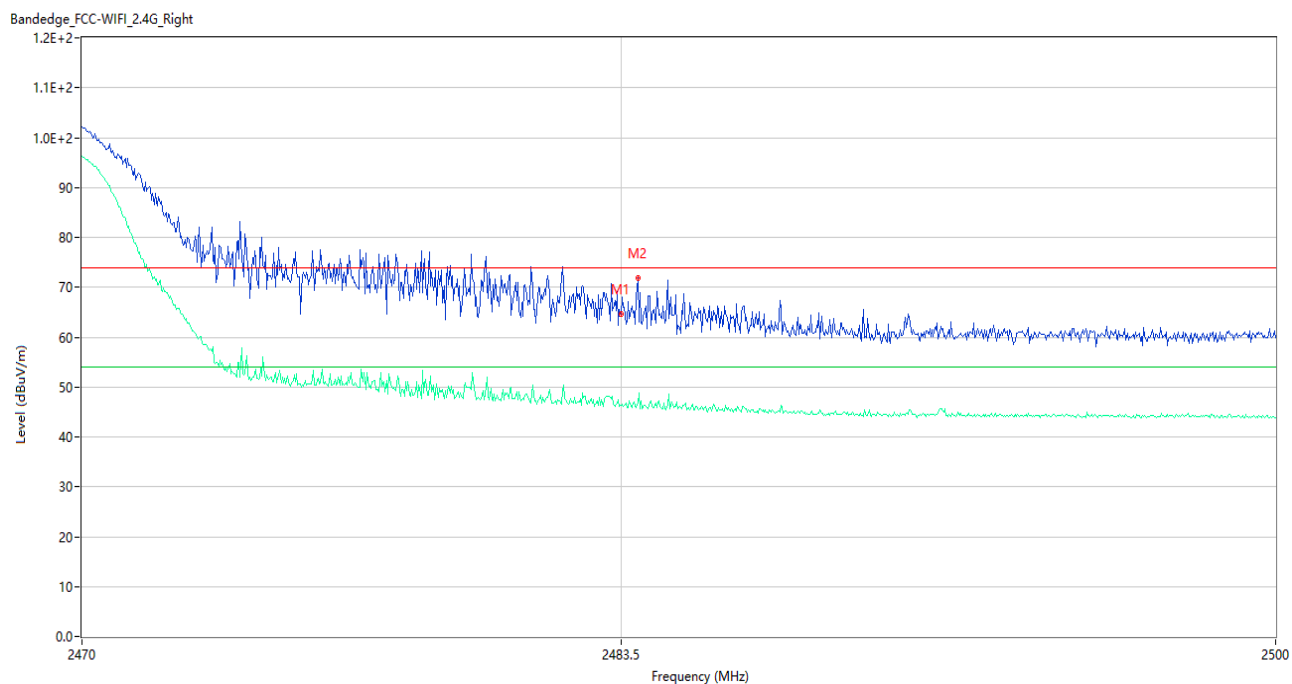
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	52.42	-2.60	74.0	21.58	Peak	209.00	150	Horizontal	Pass
1**	2483.500	43.42	-2.60	54.0	10.58	AV	209.00	150	Horizontal	Pass
2	2485.900	56.09	-2.63	74.0	17.91	Peak	192.00	150	Horizontal	Pass
2**	2485.900	47.22	-2.63	54.0	6.78	AV	192.00	150	Horizontal	Pass

802.11g LOW CHANNEL



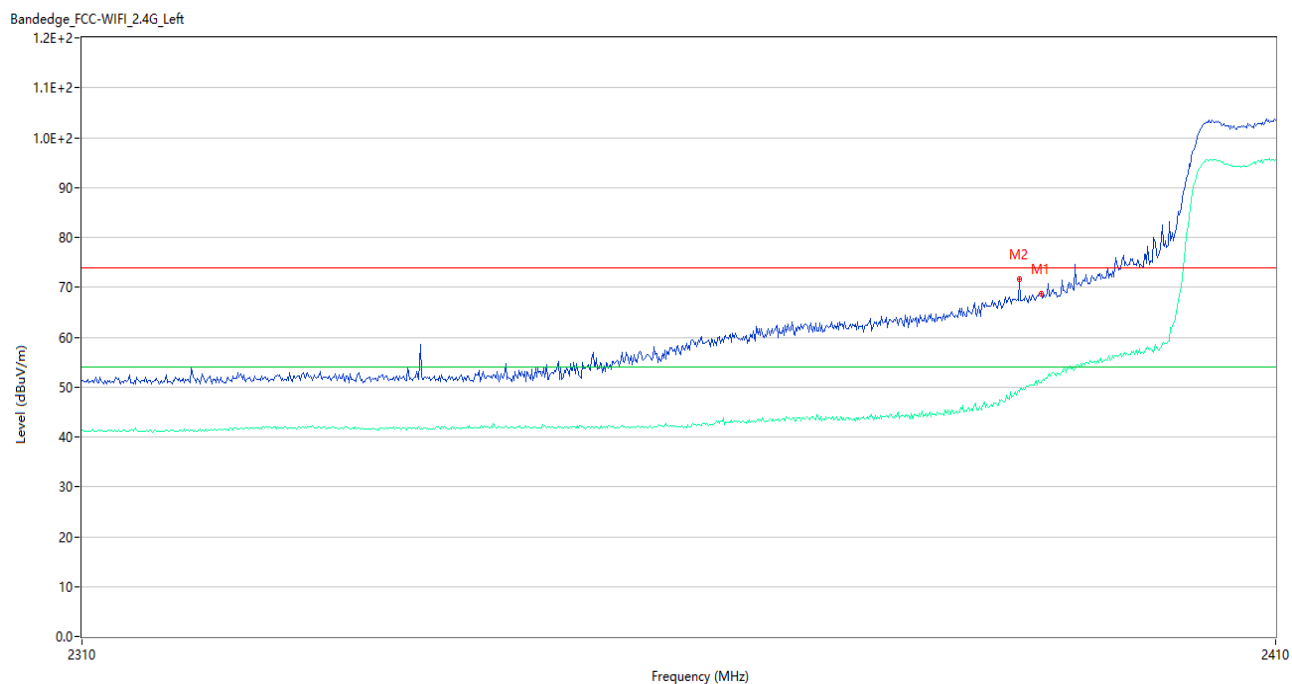
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	69.13	-3.73	74.0	4.87	Peak	236.97	150	Horizontal	Pass
1**	2390.000	51.09	-3.73	54.0	2.91	AV	236.97	150	Horizontal	Pass
2	2389.100	69.23	-3.68	74.0	4.77	Peak	203.00	150	Horizontal	Pass
2**	2389.100	49.22	-3.68	54.0	4.78	AV	203.00	150	Horizontal	Pass

802.11g HIGH CHANNEL



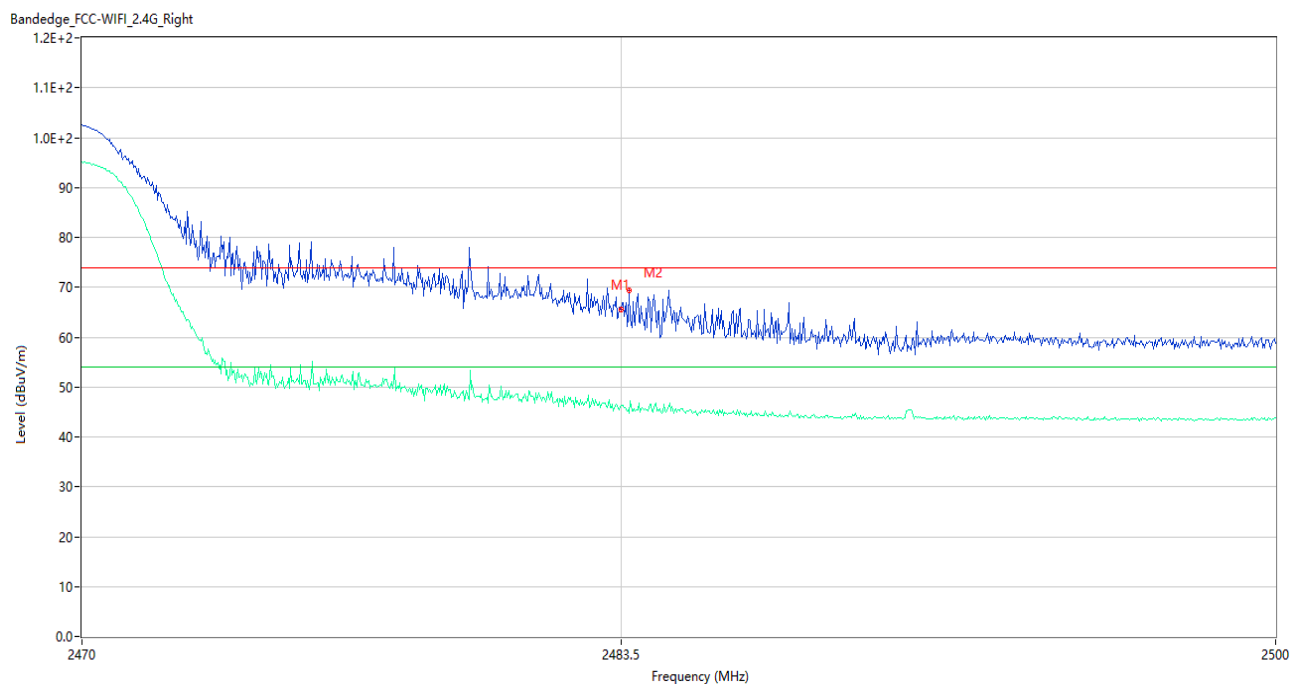
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	64.59	-2.60	74.0	9.41	Peak	258.00	150	Horizontal	Pass
1**	2483.500	46.30	-2.60	54.0	7.70	AV	258.00	150	Horizontal	Pass
2	2483.920	71.84	-2.61	74.0	2.16	Peak	197.00	150	Horizontal	Pass
2**	2483.920	46.73	-2.61	54.0	7.27	AV	197.00	150	Horizontal	Pass

802.11n20 LOW CHANNEL



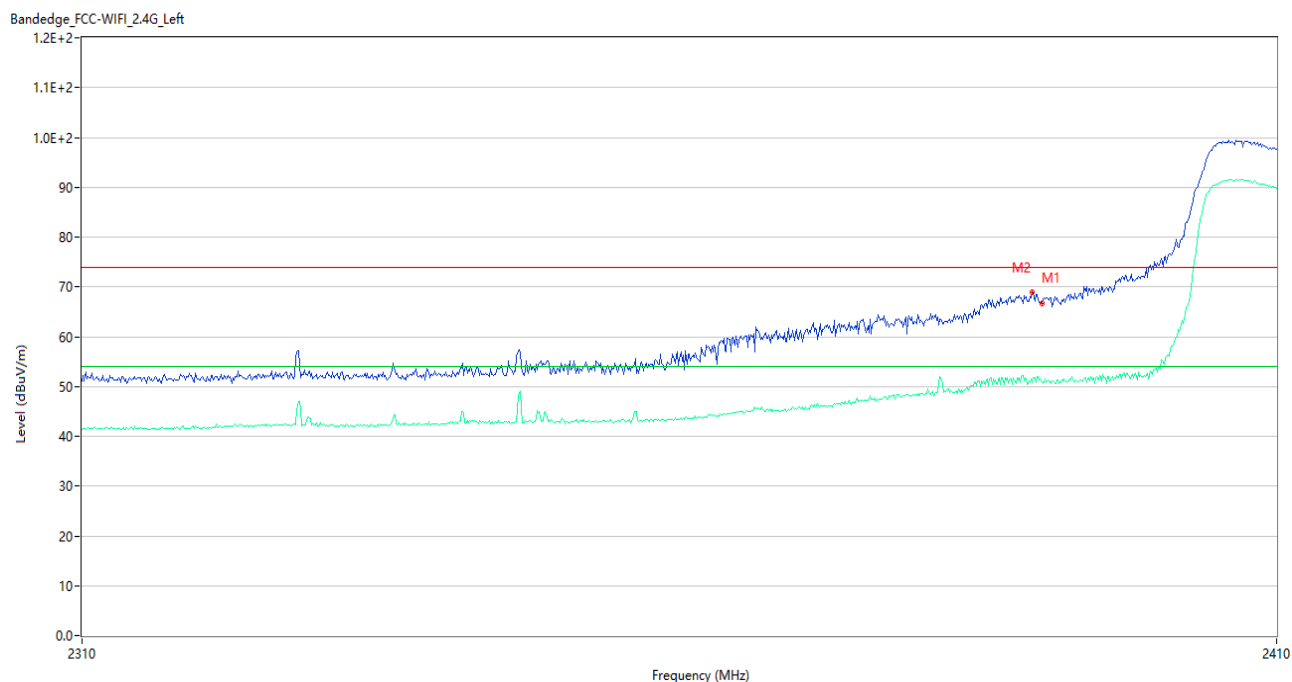
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	68.60	-3.73	74.0	5.40	Peak	234.95	150	Horizontal	Pass
1**	2390.000	50.88	-3.73	54.0	3.12	AV	234.95	150	Horizontal	Pass
2	2388.200	71.70	-3.63	74.0	2.30	Peak	197.00	150	Horizontal	Pass
2**	2388.200	48.98	-3.63	54.0	5.02	AV	197.00	150	Horizontal	Pass

802.11n20 HIGH CHANNEL



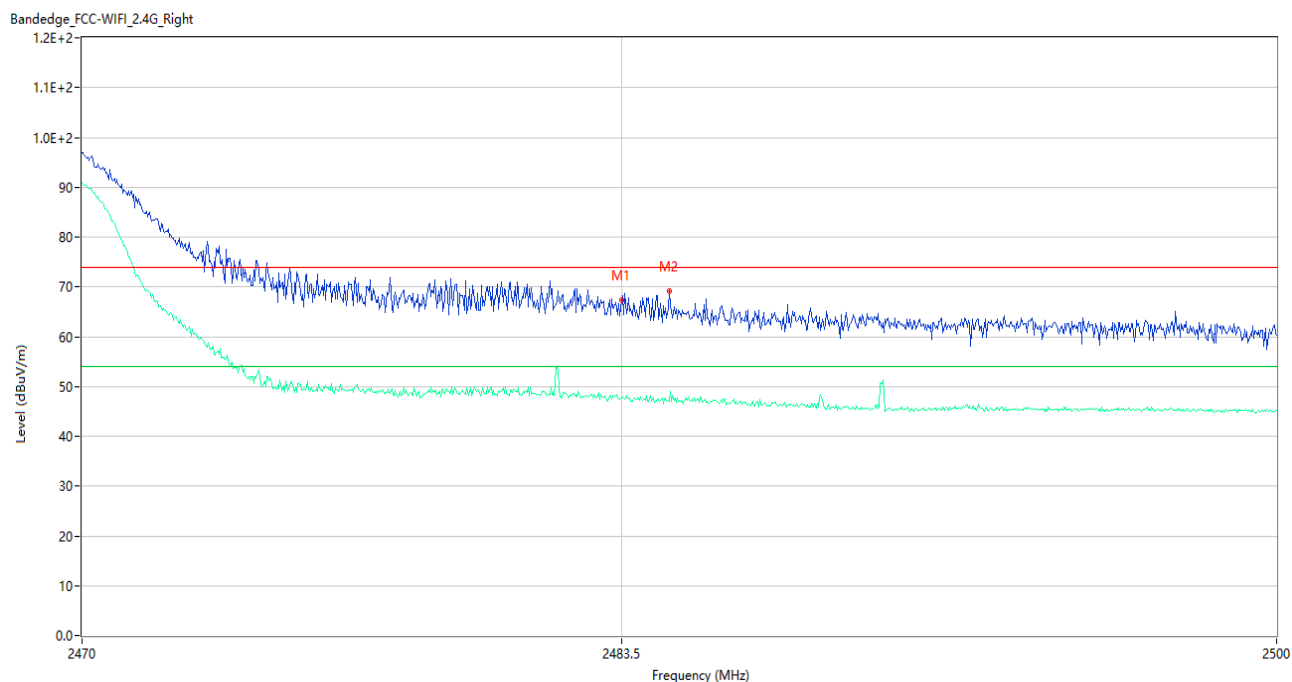
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	65.53	-2.60	74.0	8.47	Peak	169.00	150	Horizontal	Pass
1**	2483.500	46.43	-2.60	54.0	7.57	AV	169.00	150	Horizontal	Pass
2	2483.710	69.40	-2.60	74.0	4.60	Peak	219.00	150	Horizontal	Pass
2**	2483.710	44.72	-2.60	54.0	9.28	AV	219.00	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	66.59	-3.73	74.0	7.41	Peak	202.98	150	Horizontal	Pass
1**	2390.000	50.77	-3.73	54.0	3.23	AV	202.98	150	Horizontal	Pass
2	2389.200	68.90	-3.69	74.0	5.10	Peak	201.00	150	Horizontal	Pass
2**	2389.200	50.80	-3.69	54.0	3.20	AV	201.00	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	67.32	-2.60	74.0	6.68	Peak	203.00	150	Horizontal	Pass
1**	2483.500	47.74	-2.60	54.0	6.26	AV	203.00	150	Horizontal	Pass
2	2484.700	69.13	-2.62	74.0	4.87	Peak	193.00	150	Horizontal	Pass
2**	2484.700	47.08	-2.62	54.0	6.92	AV	193.00	150	Horizontal	Pass

A.8 Power Spectral Density (PSD)

Note ¹: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-2.79	8
Middle	-2.53	8
High	-2.73	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-11.80	8
Middle	-9.78	8
High	-10.17	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-11.92	8
Middle	-12.04	8
High	-12.24	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-16.40	8
Middle	-14.68	8
High	-14.76	8

Test Plots

802.11b LOW CHANNEL



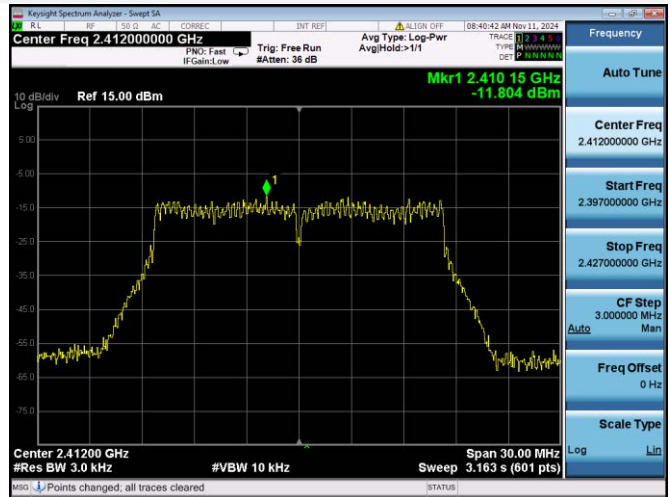
802.11b MIDDLE CHANNEL



802.11b HIGH CHANNEL



802.11g LOW CHANNEL



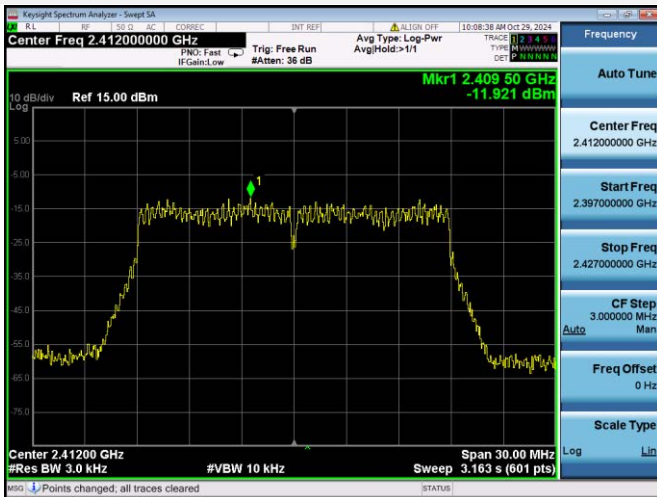
802.11g MIDDLE CHANNEL



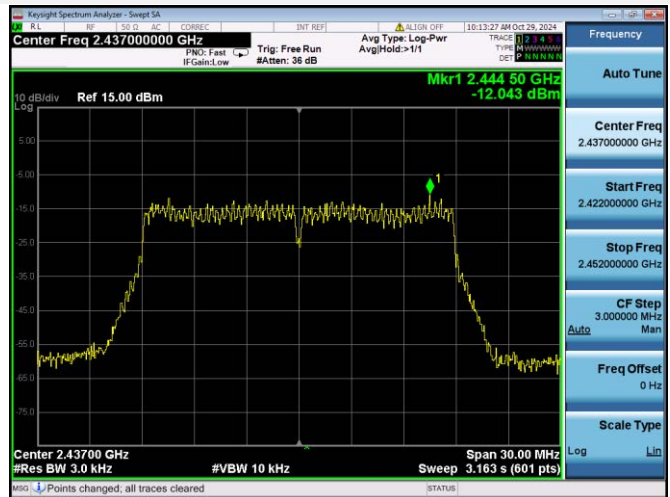
802.11g HIGH CHANNEL



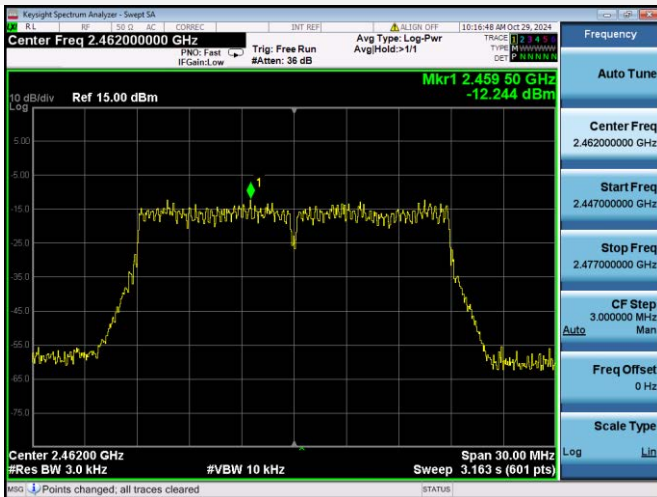
802.11n-20 MHz LOW CHANNEL



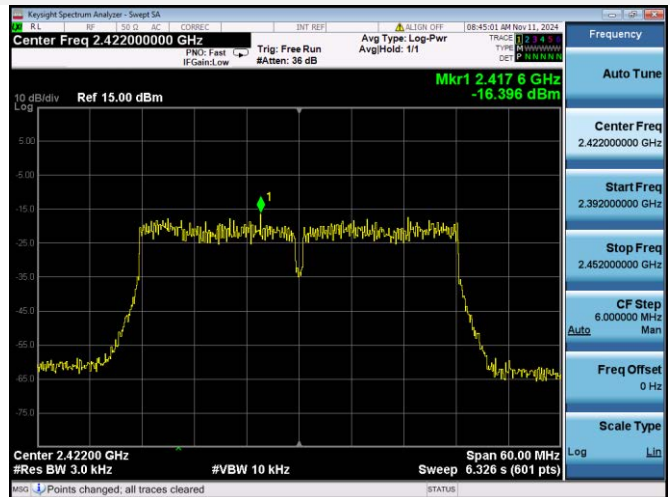
802.11n-20 MHz MIDDLE CHANNEL



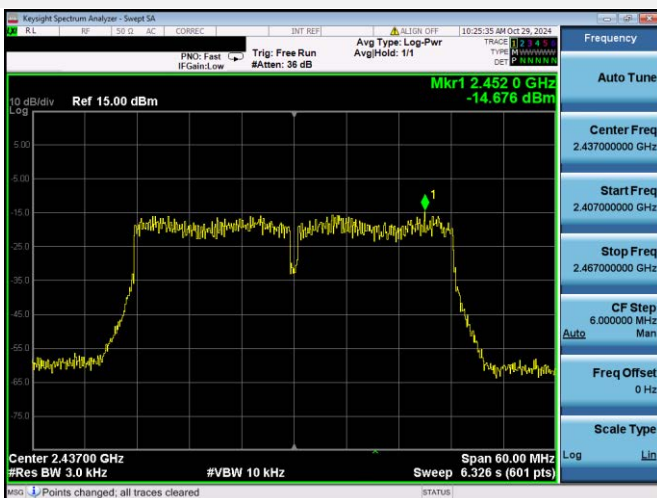
802.11n-20 MHz HIGH CHANNEL



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-SH24A0783-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH24A0783-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH24A0783-AI.PDF”.

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--END OF REPORT--