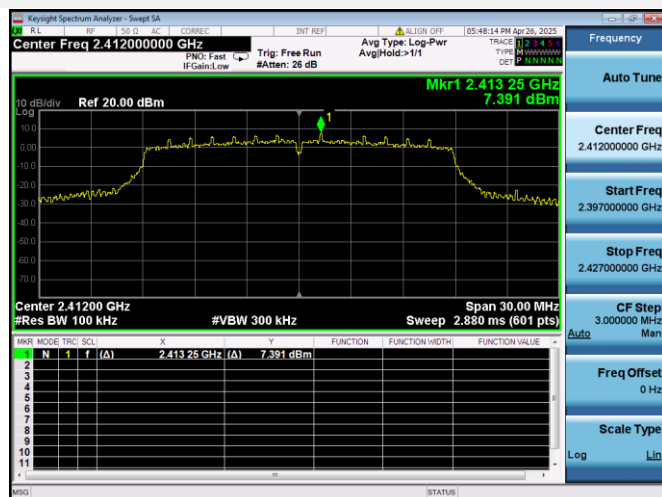
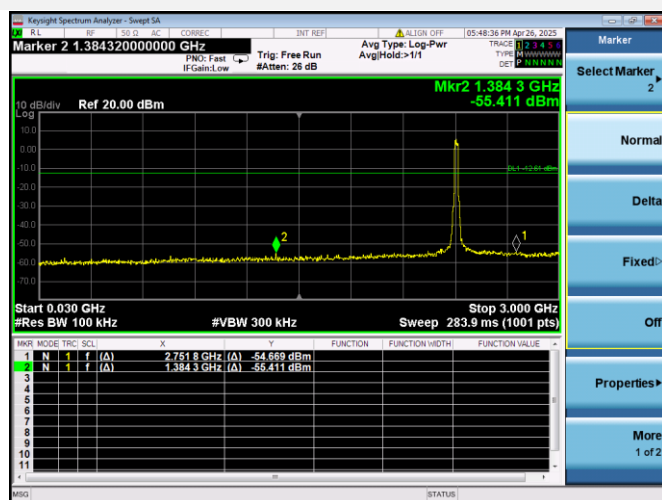
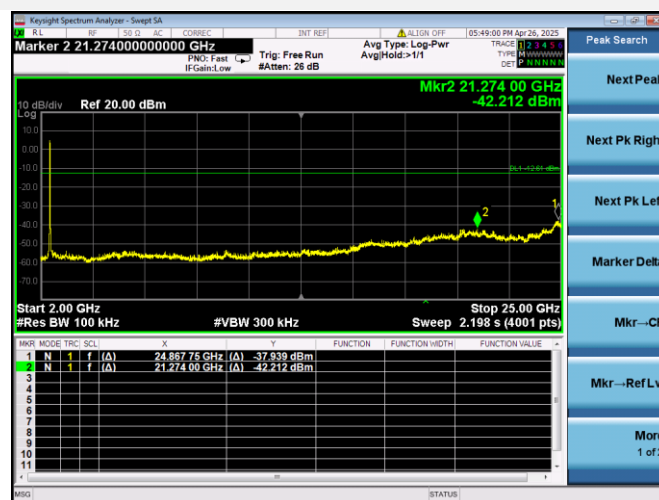
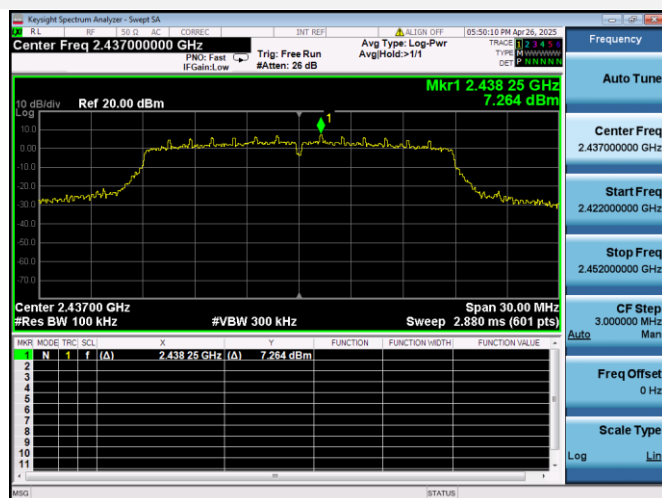


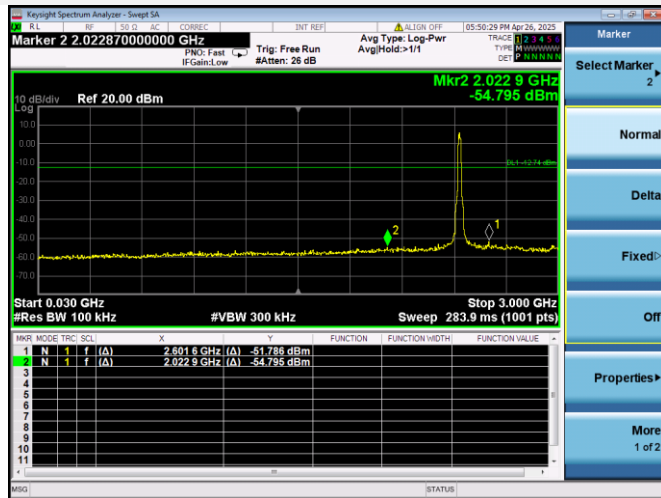
802.11n-20 MHz LOW CHANNEL CARRIER LEVEL

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

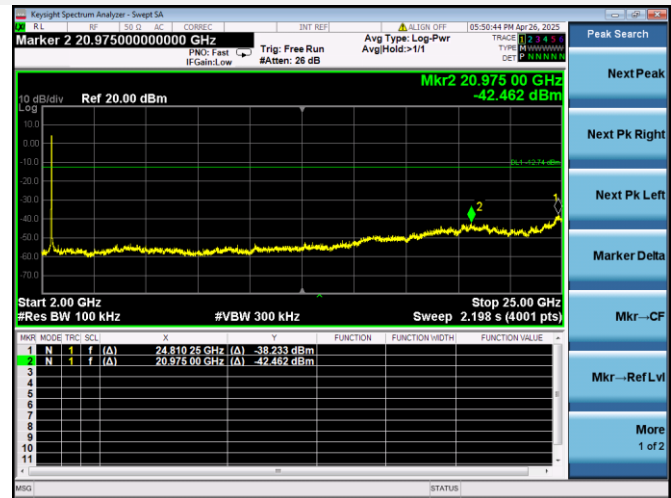
802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL



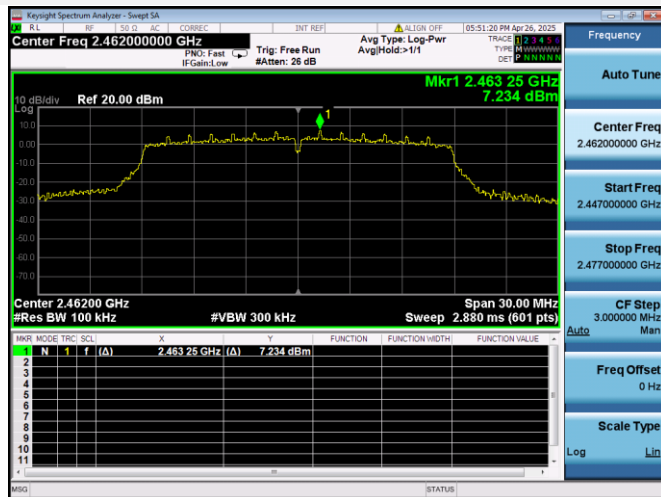
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



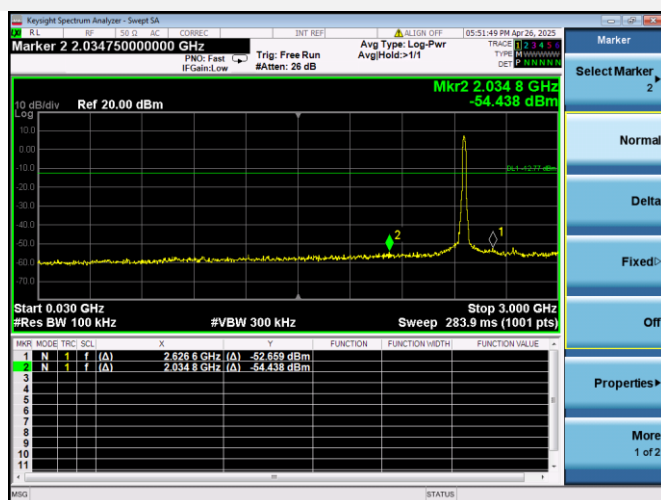
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



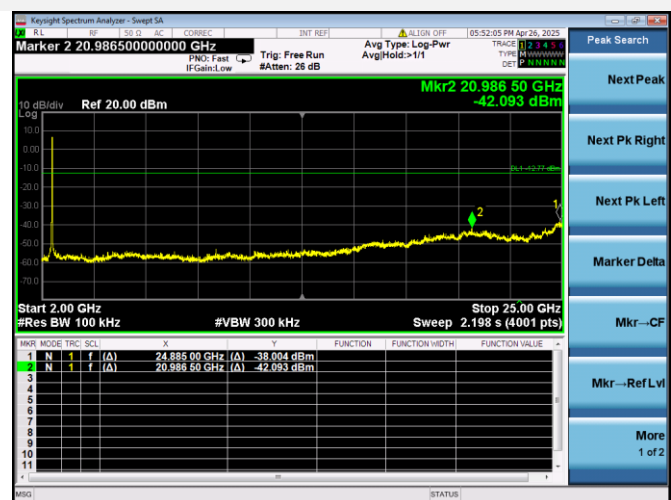
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



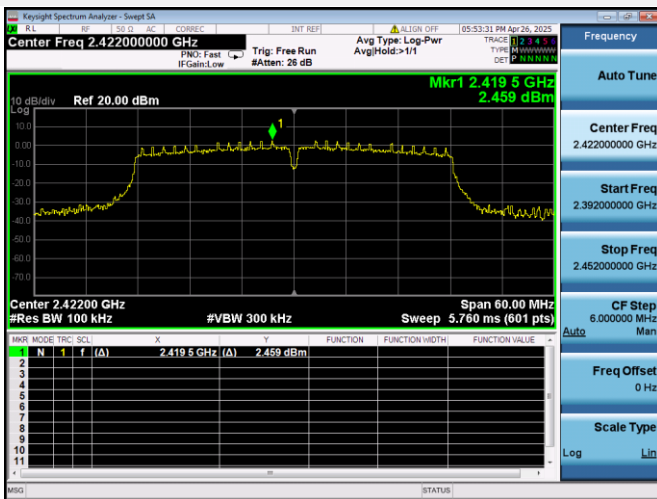
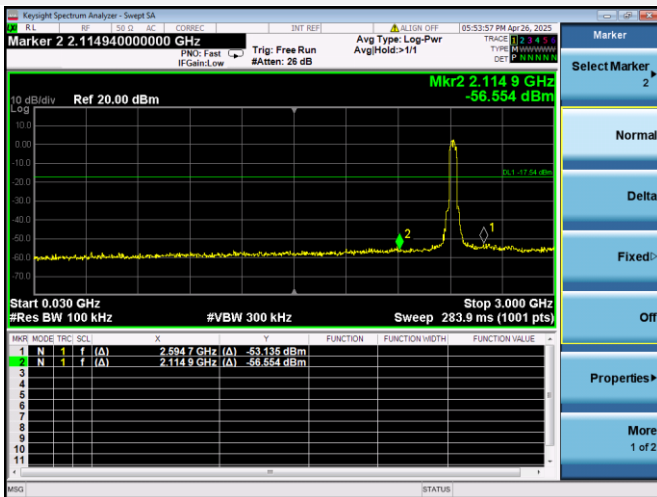
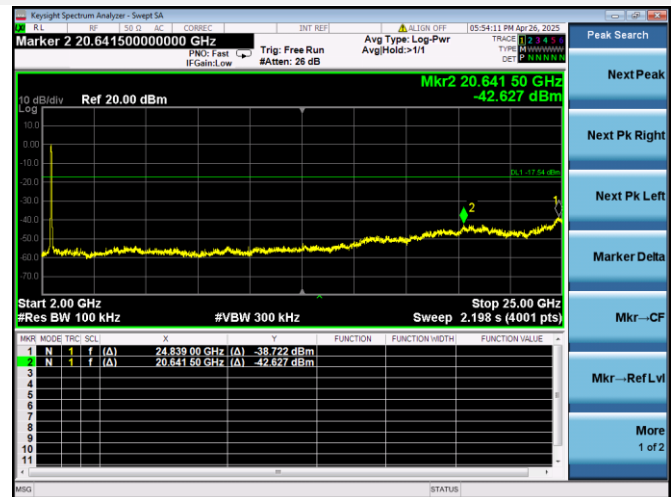
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



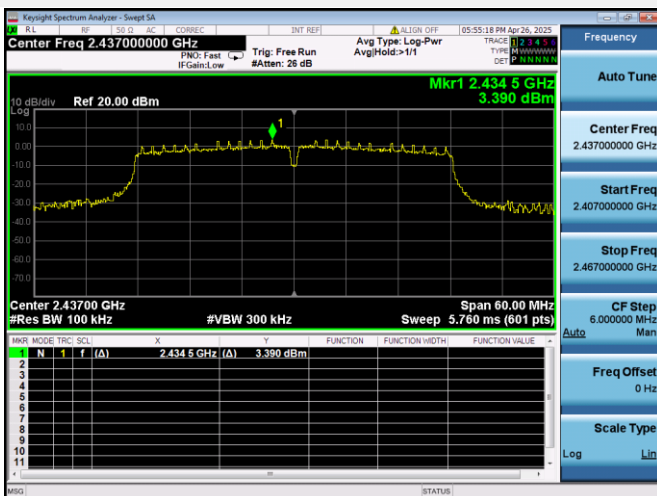
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



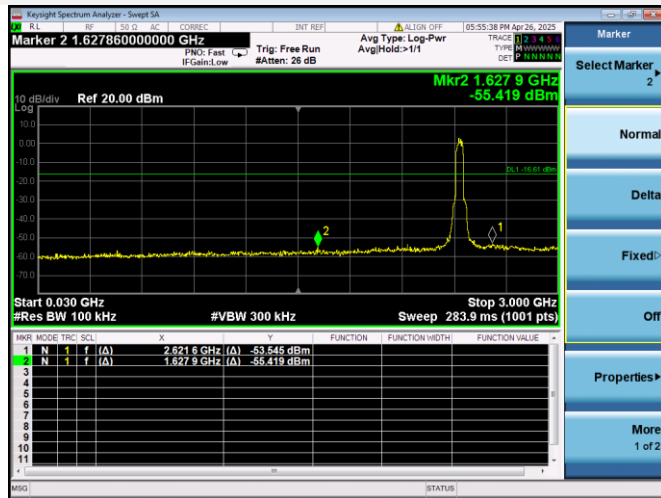
802.11n-40 MHz LOW CHANNEL CARRIER LEVEL

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

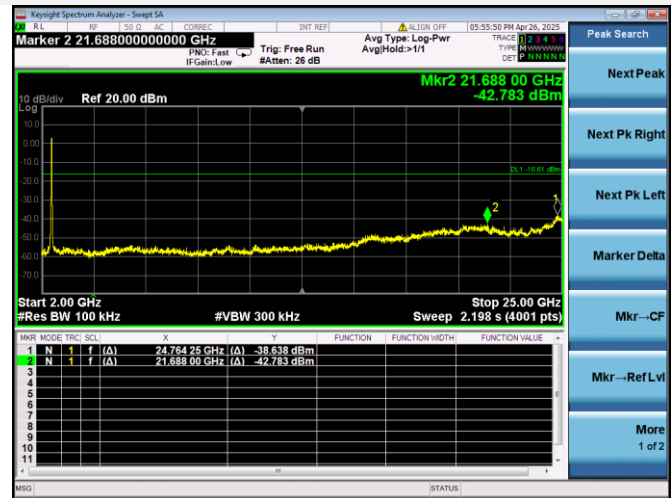
802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL



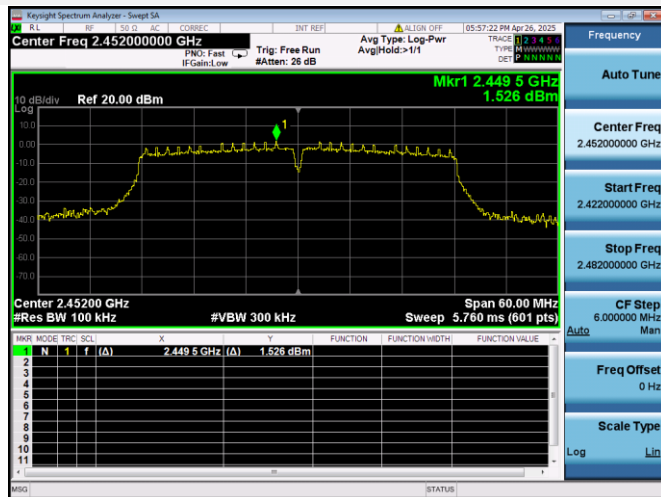
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



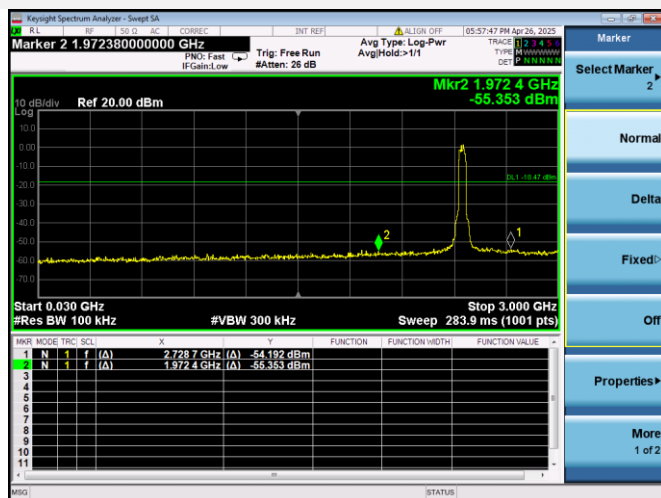
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



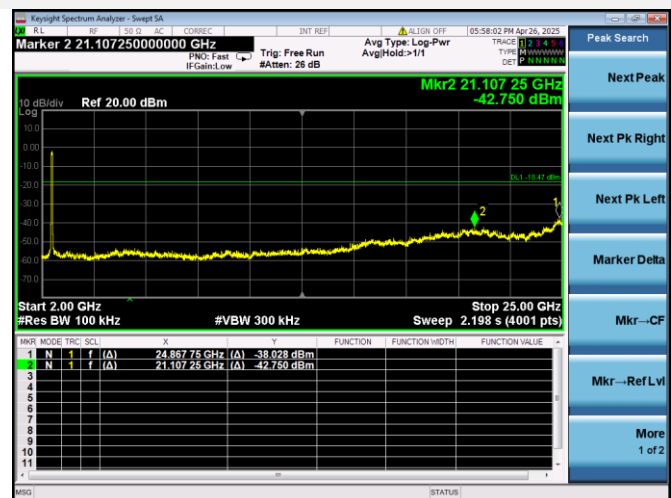
802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



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	-40.89	8.25	-11.75	Pass
High	-51.33	8.30	-11.70	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-23.88	6.93	-13.07	Pass
High	-40.69	7.25	-12.75	Pass

802.11n-20 MHz Mode:

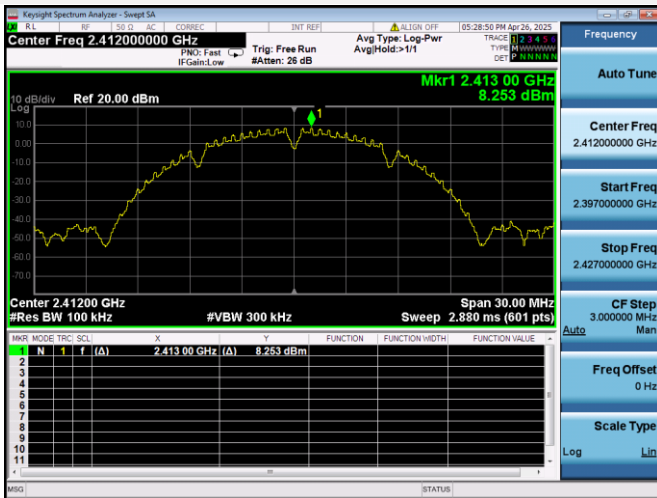
Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-21.16	7.39	-12.61	Pass
High	-38.95	7.23	-12.77	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-31.61	2.46	-17.54	Pass
High	-38.42	1.53	-18.47	Pass

Test Plots

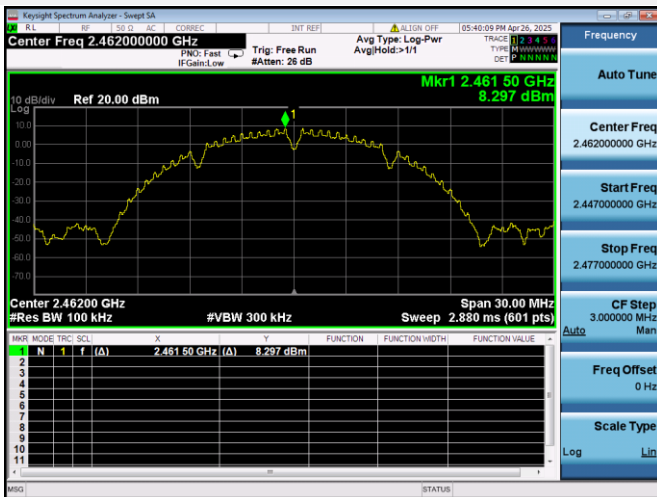
802.11b LOW CHANNEL, CARRIER LEVEL



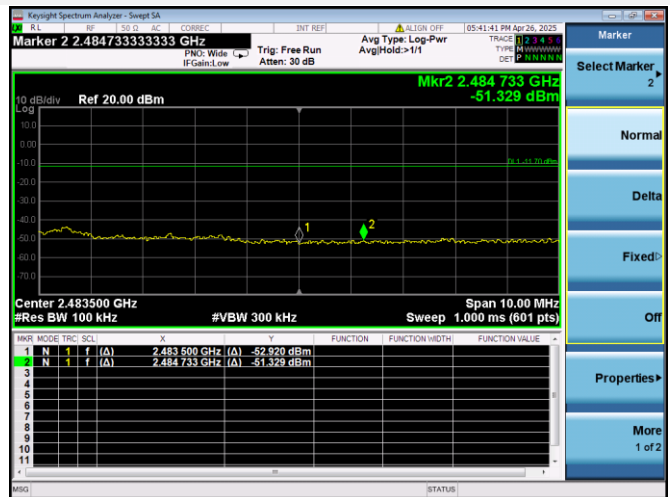
802.11b LOW CHANNEL, BAND EDGE



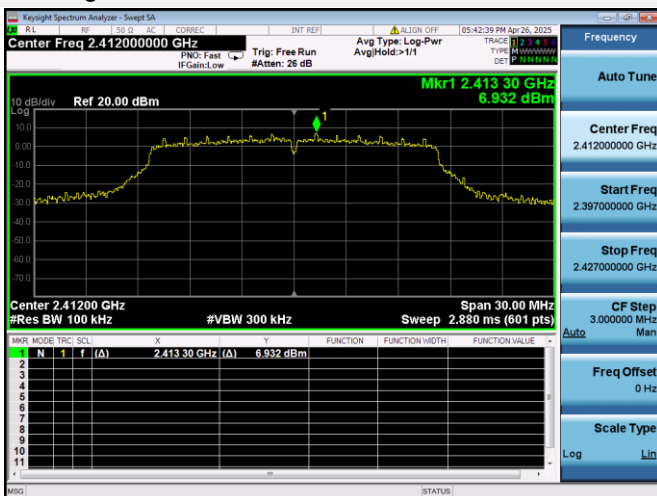
802.11b HIGH CHANNEL, CARRIER LEVEL



802.11b HIGH CHANNEL, BAND EDGE



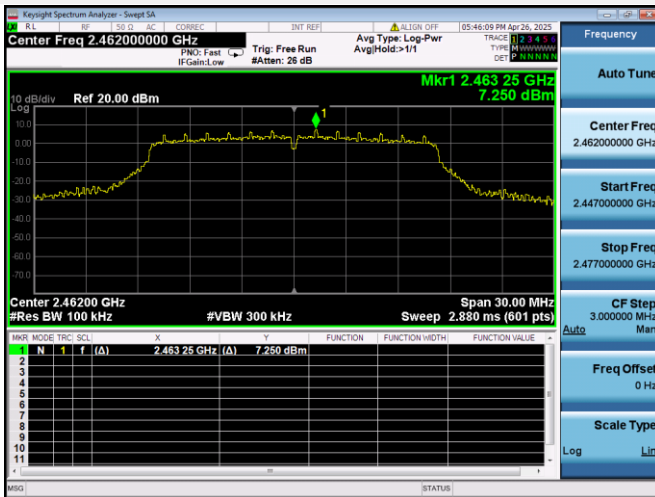
802.11g LOW CHANNEL, CARRIER LEVEL



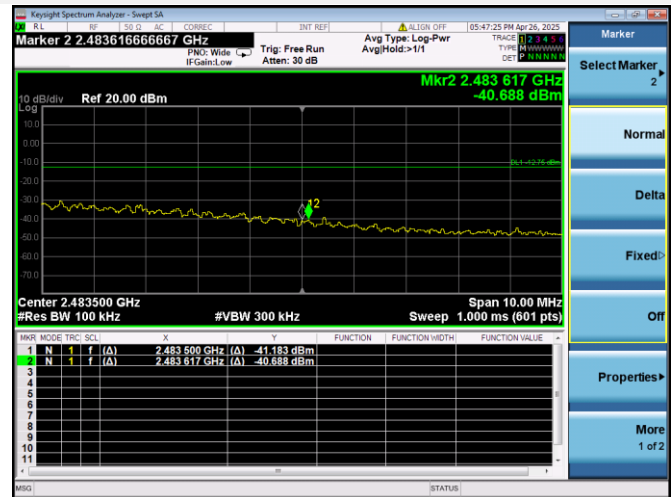
802.11g LOW CHANNEL, BAND EDGE



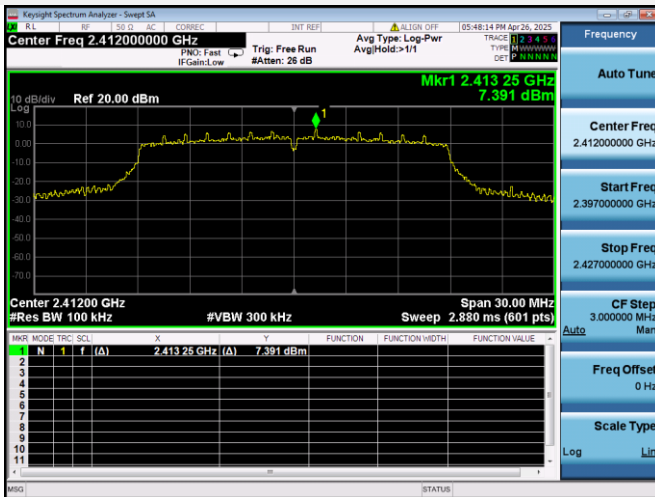
802.11g HIGH CHANNEL, CARRIER LEVEL



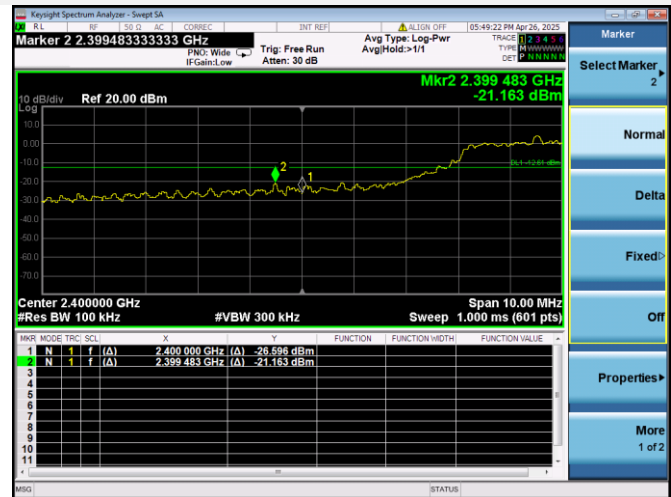
802.11g HIGH CHANNEL, BAND EDGE



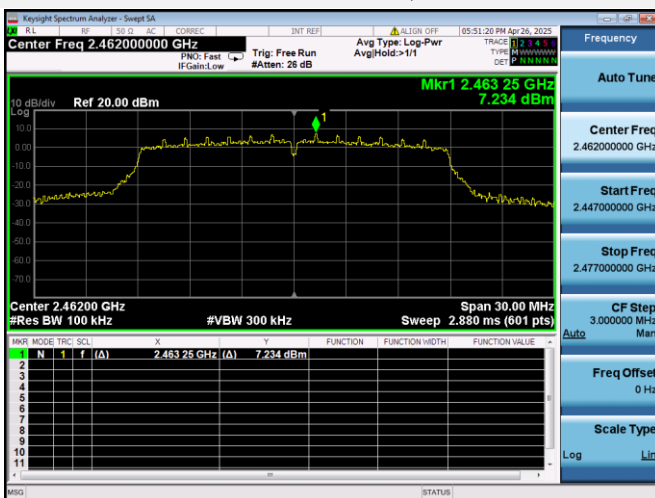
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



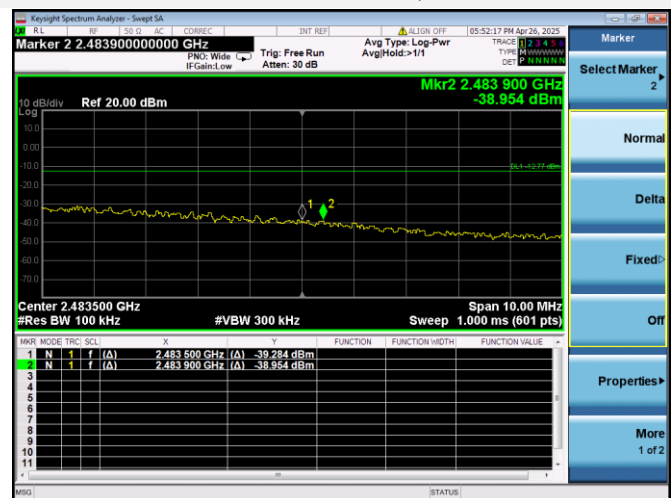
802.11n-20 MHz LOW CHANNEL, BAND EDGE



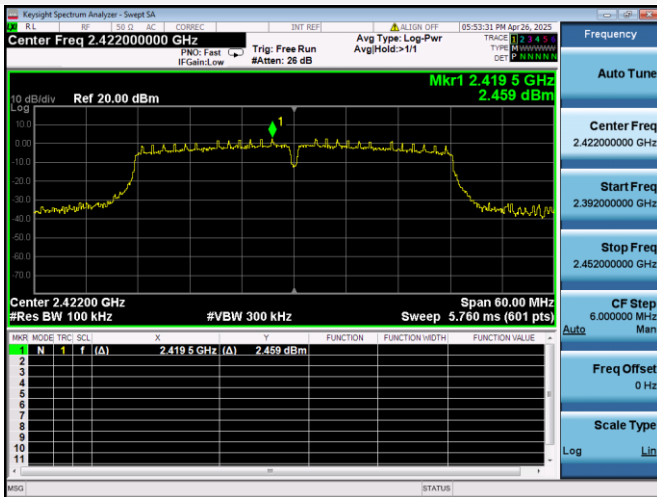
802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



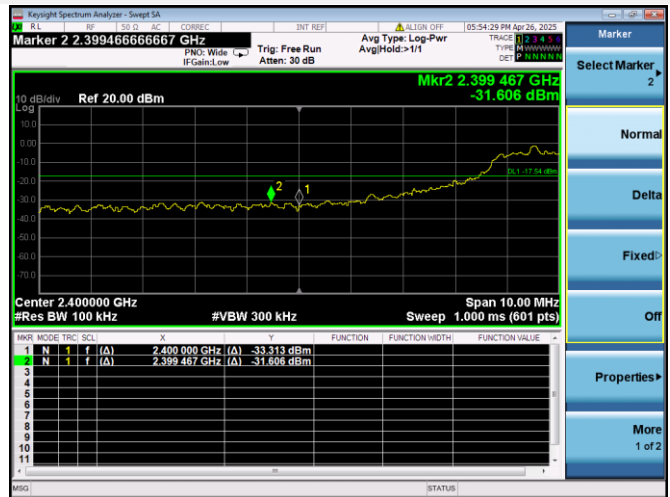
802.11n-20 MHz HIGH CHANNEL, BAND EDGE



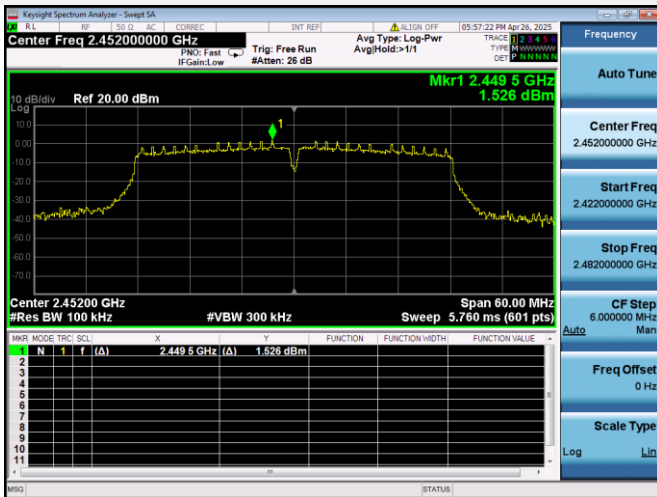
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



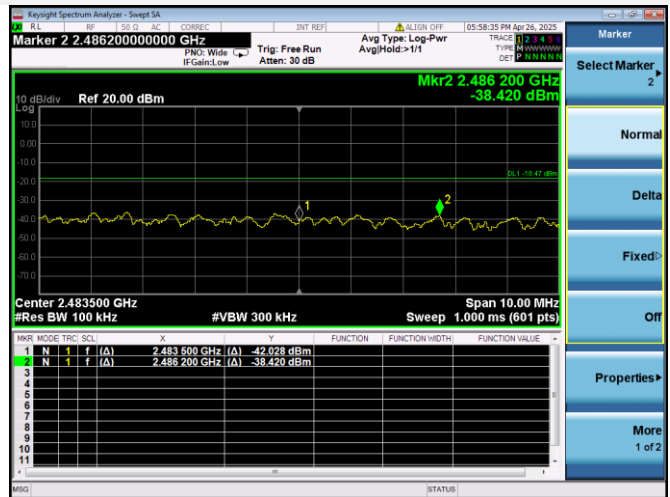
802.11n-40 MHz LOW CHANNEL, BAND EDGE



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.

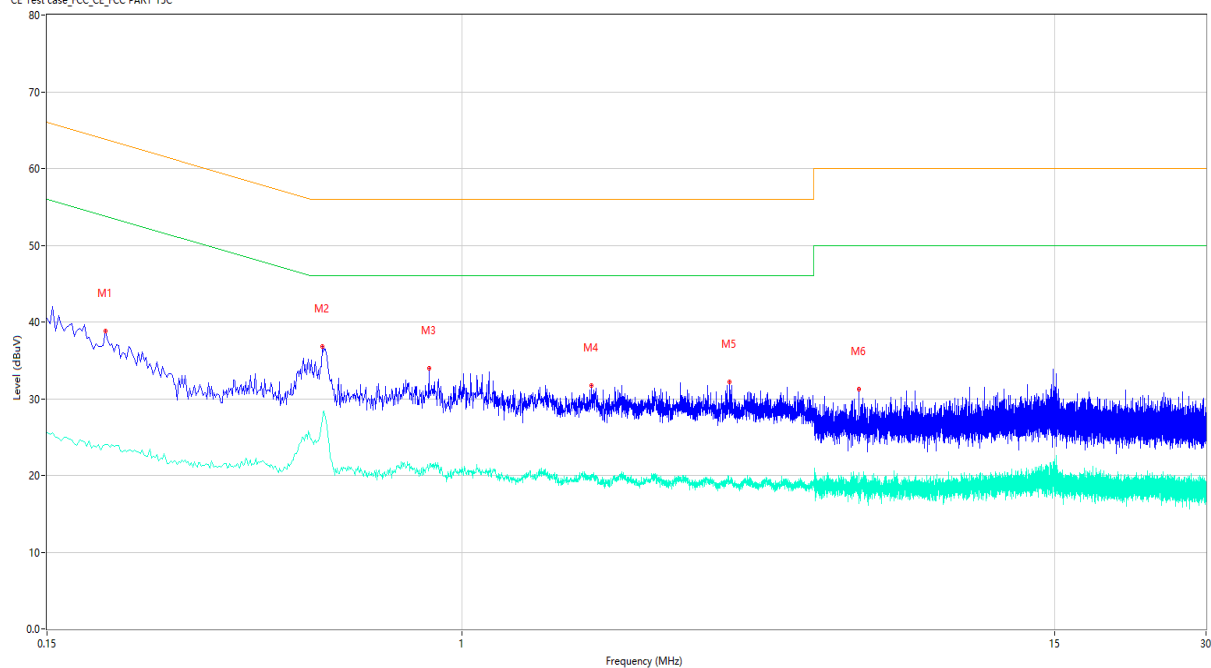
Note 2: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

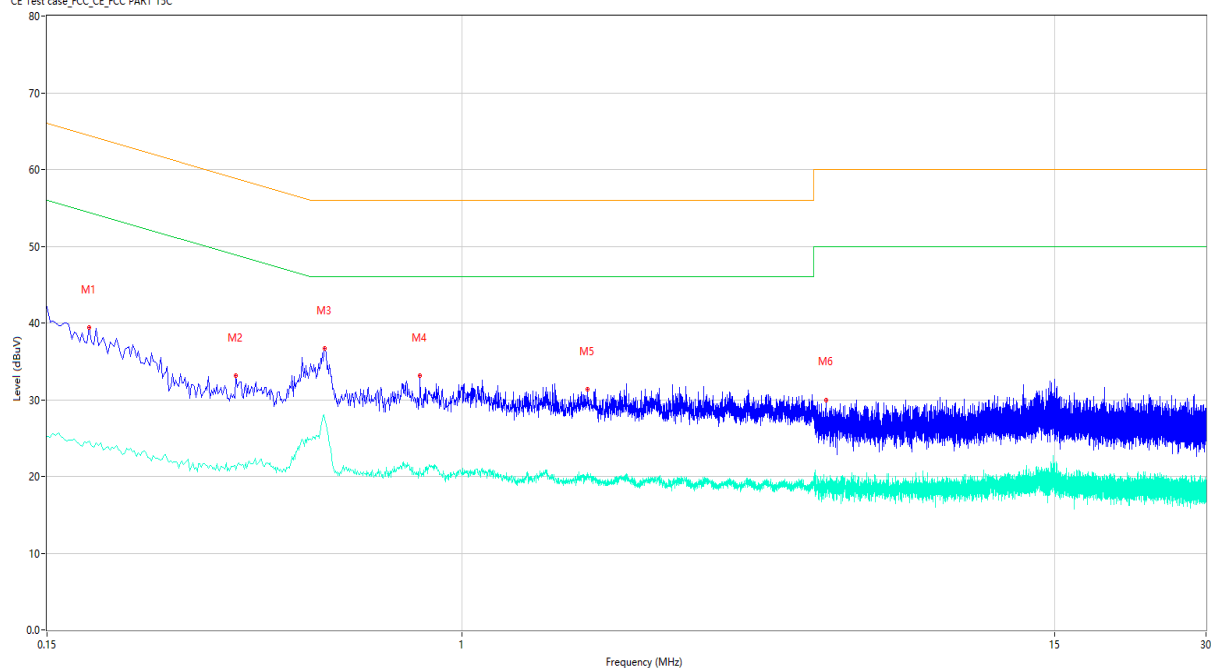
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin(dB)	Detector	Line	Verdict
1	0.196	38.83	9.74	63.78	24.95	Peak	L	Pass
1**	0.196	23.98	9.74	53.78	29.80	AV	L	Pass
2	0.528	36.76	9.75	56.00	19.24	Peak	L	Pass
2**	0.528	27.07	9.75	46.00	18.93	AV	L	Pass
3	0.860	33.95	9.72	56.00	22.05	Peak	L	Pass
3**	0.860	21.19	9.72	46.00	24.81	AV	L	Pass
4	1.806	31.68	9.76	56.00	24.32	Peak	L	Pass
4**	1.806	20.11	9.76	46.00	25.89	AV	L	Pass
5	3.400	32.21	9.68	56.00	23.79	Peak	L	Pass
5**	3.400	19.26	9.68	46.00	26.74	AV	L	Pass
6	6.136	31.26	9.52	60.00	28.74	Peak	L	Pass
6**	6.136	20.30	9.52	50.00	29.70	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	0.182	39.41	9.73	64.39	24.98	Peak	N	Pass
1**	0.182	24.56	9.73	54.39	29.83	AV	N	Pass
2	0.356	33.12	9.74	58.82	25.70	Peak	N	Pass
2**	0.356	20.86	9.74	48.82	27.96	AV	N	Pass
3	0.534	36.67	9.75	56.00	19.33	Peak	N	Pass
3**	0.534	27.63	9.75	46.00	18.37	AV	N	Pass
4	0.826	33.13	9.72	56.00	22.87	Peak	N	Pass
4**	0.826	21.03	9.72	46.00	24.97	AV	N	Pass
5	1.776	31.37	9.76	56.00	24.63	Peak	N	Pass
5**	1.776	20.05	9.76	46.00	25.95	AV	N	Pass
6	5.294	30.00	9.58	60.00	30.00	Peak	N	Pass
6**	5.294	19.43	9.58	50.00	30.57	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.

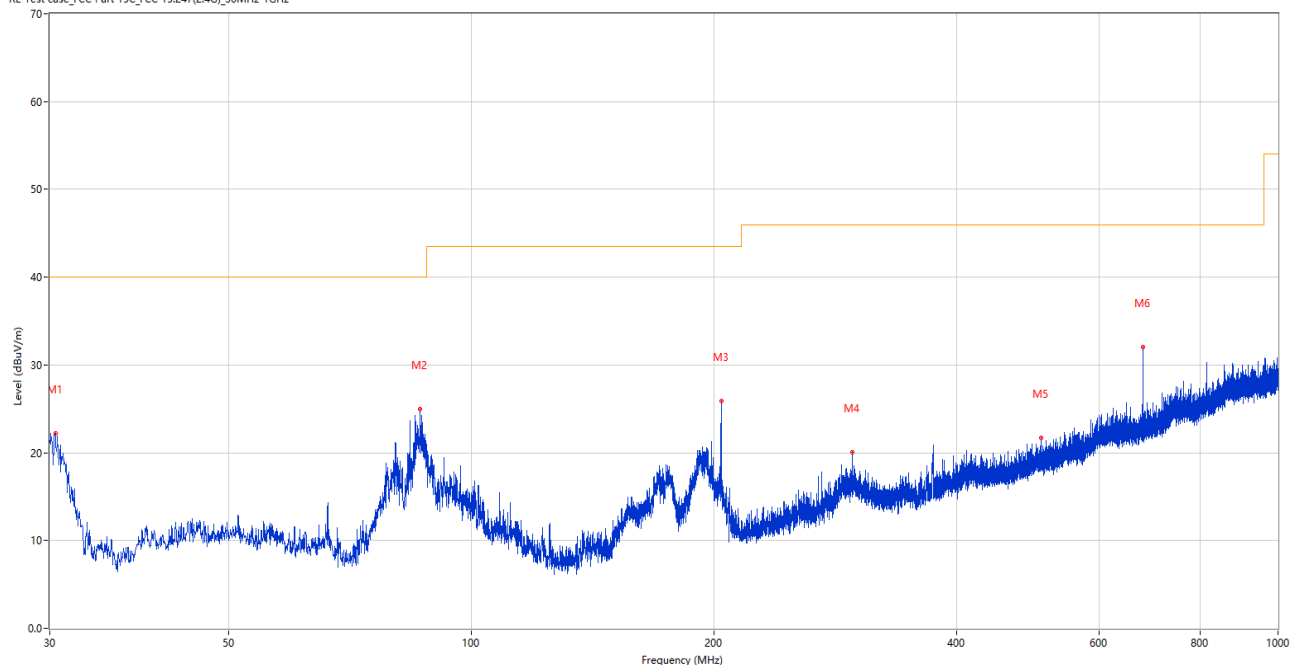
Note 3: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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

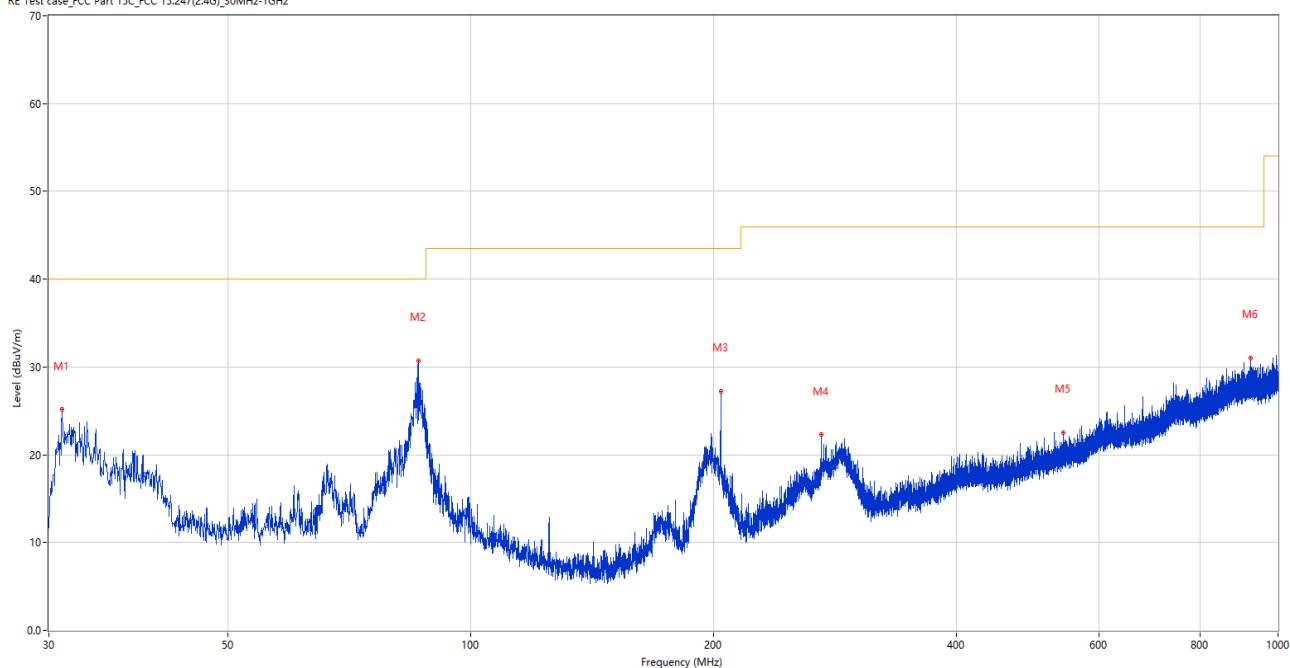
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.485	22.21	-28.98	40.0	17.79	Peak	130.00	100	Horizontal	Pass
2	86.406	24.94	-29.24	40.0	15.06	Peak	161.00	100	Horizontal	Pass
3	203.970	25.91	-26.28	43.5	17.59	Peak	56.00	100	Horizontal	Pass
4	296.459	20.06	-23.22	46.0	25.94	Peak	87.00	100	Horizontal	Pass
5	508.986	21.74	-17.73	46.0	24.26	Peak	81.00	100	Horizontal	Pass
6	679.997	32.01	-14.11	46.0	13.99	Peak	224.00	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	31.164	25.13	-29.06	40.0	14.87	Peak	304.00	100	Vertical	Pass
2	86.066	30.71	-29.37	40.0	9.29	Peak	360.00	100	Vertical	Pass
3	203.970	27.25	-26.28	43.5	16.25	Peak	141.00	100	Vertical	Pass
4	272.015	22.26	-24.05	46.0	23.74	Peak	74.00	100	Vertical	Pass
5	542.209	22.55	-17.04	46.0	23.45	Peak	8.00	100	Vertical	Pass
6	924.486	31.05	-9.01	46.0	14.95	Peak	51.00	100	Vertical	Pass

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

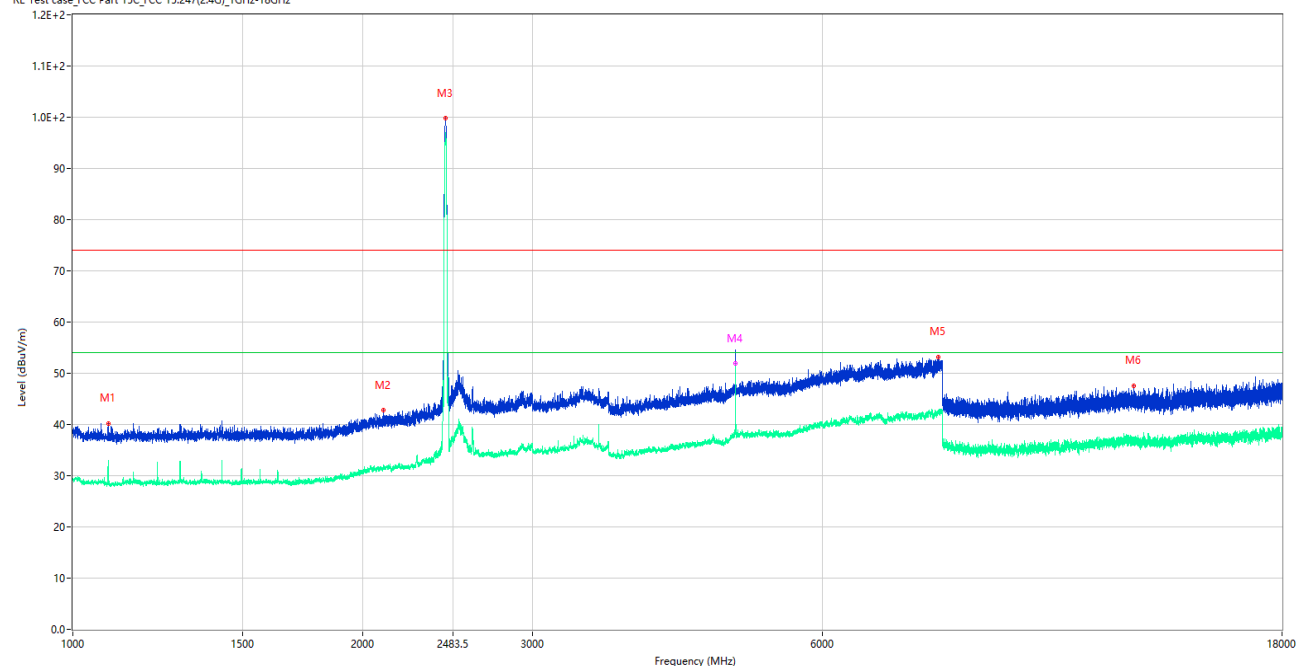
Note 2: The spurious above 18G is noise only, do not show on the report.

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

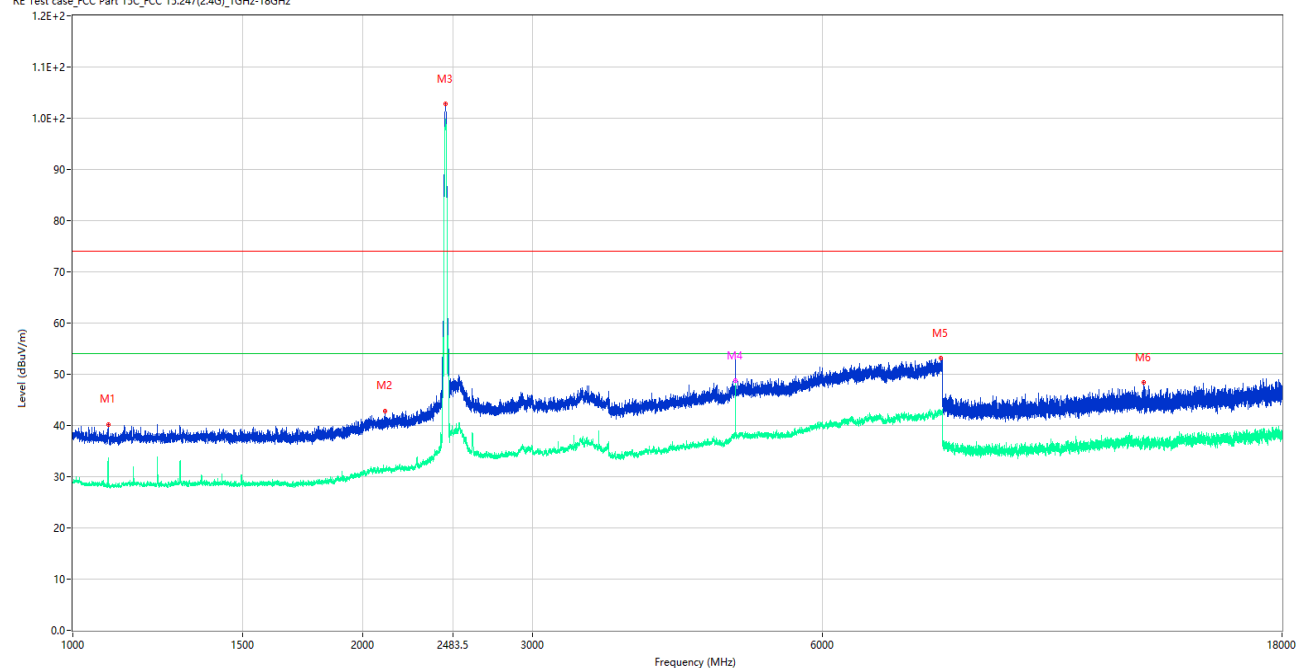
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1088.000	40.14	-15.80	74.0	33.86	Peak	175.00	150	Horizontal	Pass
1**	1088.000	32.44	-15.80	54.0	21.56	AV	175.00	150	Horizontal	Pass
2	2101.500	42.73	-13.53	74.0	31.27	Peak	343.00	150	Horizontal	Pass
2**	2101.500	31.71	-13.53	54.0	22.29	AV	343.00	150	Horizontal	Pass
3	2438.250	99.82	-12.38	74.0	-25.82	Peak	91.00	150	Horizontal	N/A
3**	2438.250	96.96	-12.38	54.0	-42.96	AV	91.00	150	Horizontal	N/A
4	4874.500	53.24	-2.25	74.0	20.76	Peak	149.00	150	Horizontal	Pass
4**	4874.500	51.89	-2.25	54.0	2.11	AV	149.00	150	Horizontal	Pass
5	7915.500	53.18	1.85	74.0	20.82	Peak	221.00	150	Horizontal	Pass
5**	7915.500	42.66	1.85	54.0	11.34	AV	221.00	150	Horizontal	Pass
6	12638.000	47.56	-3.10	74.0	26.44	Peak	360.00	150	Horizontal	Pass
6**	12638.000	36.23	-3.10	54.0	17.77	AV	360.00	150	Horizontal	Pass

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

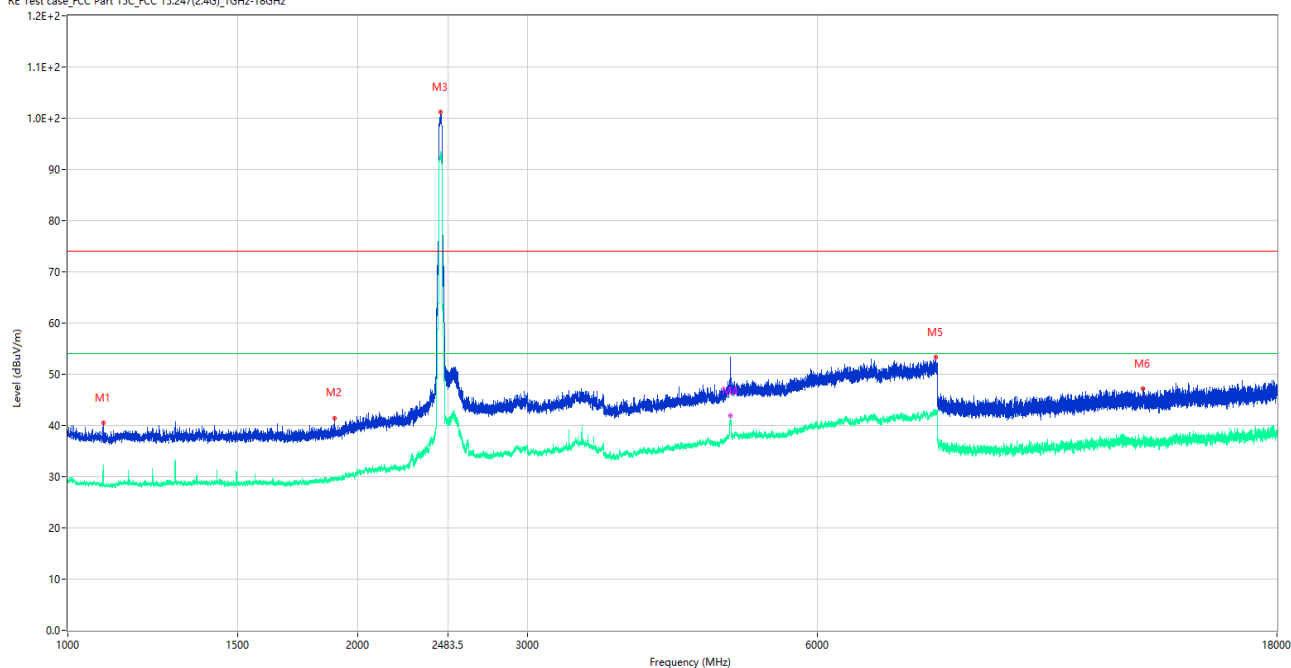
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1088.250	40.18	-15.79	74.0	33.82	Peak	173.00	150	Vertical	Pass
1**	1088.250	33.77	-15.79	54.0	20.23	AV	173.00	150	Vertical	Pass
2	2109.000	42.88	-13.60	74.0	31.12	Peak	351.00	150	Vertical	Pass
2**	2109.000	31.09	-13.60	54.0	22.91	AV	351.00	150	Vertical	Pass
3	2438.250	102.75	-12.38	74.0	-28.75	Peak	223.00	150	Vertical	N/A
3**	2438.250	99.90	-12.38	54.0	-45.90	AV	223.00	150	Vertical	N/A
4	4874.500	52.37	-2.25	74.0	21.63	Peak	271.00	150	Vertical	Pass
4**	4874.500	48.76	-2.25	54.0	5.24	AV	271.00	150	Vertical	Pass
5	7958.000	53.08	2.31	74.0	20.92	Peak	290.00	150	Vertical	Pass
5**	7958.000	42.62	2.31	54.0	11.38	AV	290.00	150	Vertical	Pass
6	12940.000	48.42	-2.02	74.0	25.58	Peak	10.00	150	Vertical	Pass
6**	12940.000	36.52	-2.02	54.0	17.48	AV	10.00	150	Vertical	Pass

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

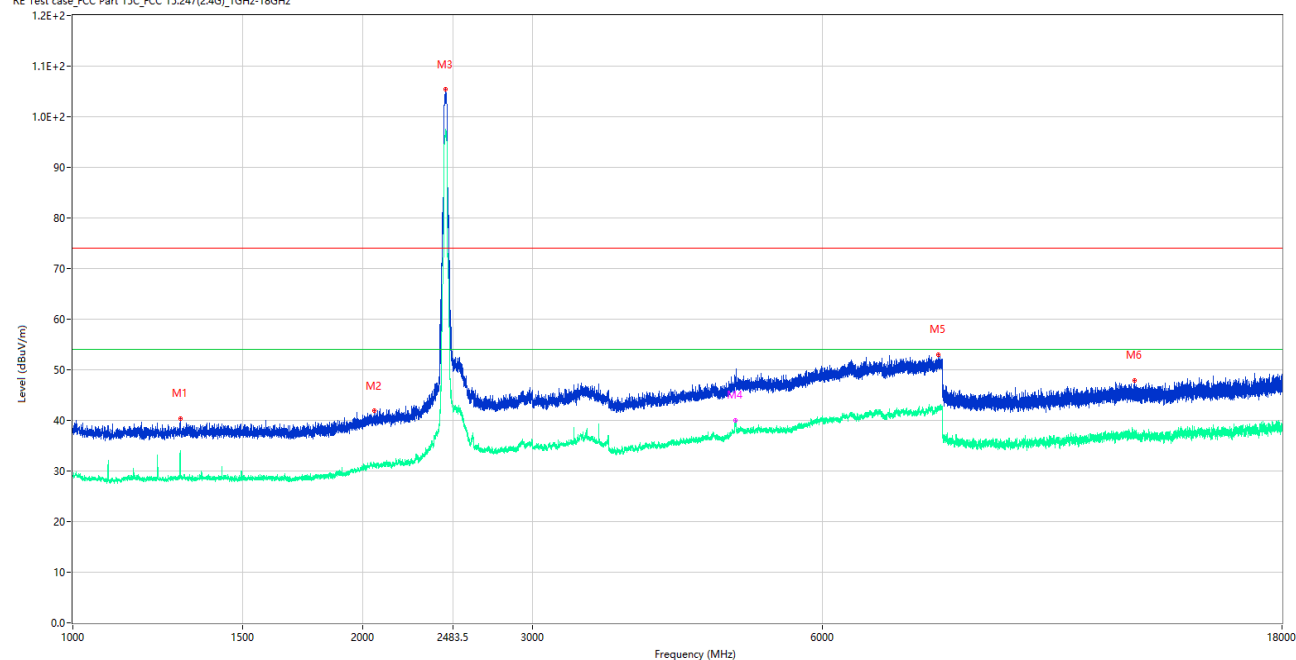
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1088.000	40.45	-15.80	74.0	33.55	Peak	175.00	150	Horizontal	Pass
1**	1088.000	32.00	-15.80	54.0	22.00	AV	175.00	150	Horizontal	Pass
2	1892.000	41.43	-15.39	74.0	32.57	Peak	102.00	150	Horizontal	Pass
2**	1892.000	29.45	-15.39	54.0	24.55	AV	102.00	150	Horizontal	Pass
3	2438.250	101.21	-12.38	74.0	-27.21	Peak	242.00	150	Horizontal	N/A
3**	2438.250	93.36	-12.38	54.0	-39.36	AV	242.00	150	Horizontal	N/A
4	4870.500	49.01	-2.16	74.0	24.99	Peak	108.00	150	Horizontal	Pass
4**	4870.500	41.89	-2.16	54.0	12.11	AV	108.00	150	Horizontal	Pass
5	7963.500	53.26	2.36	74.0	20.74	Peak	0.00	150	Horizontal	Pass
5**	7963.500	42.58	2.36	54.0	11.42	AV	0.00	150	Horizontal	Pass
6	13071.000	47.12	-2.04	74.0	26.88	Peak	321.00	150	Horizontal	Pass
6**	13071.000	37.01	-2.04	54.0	16.99	AV	321.00	150	Horizontal	Pass

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

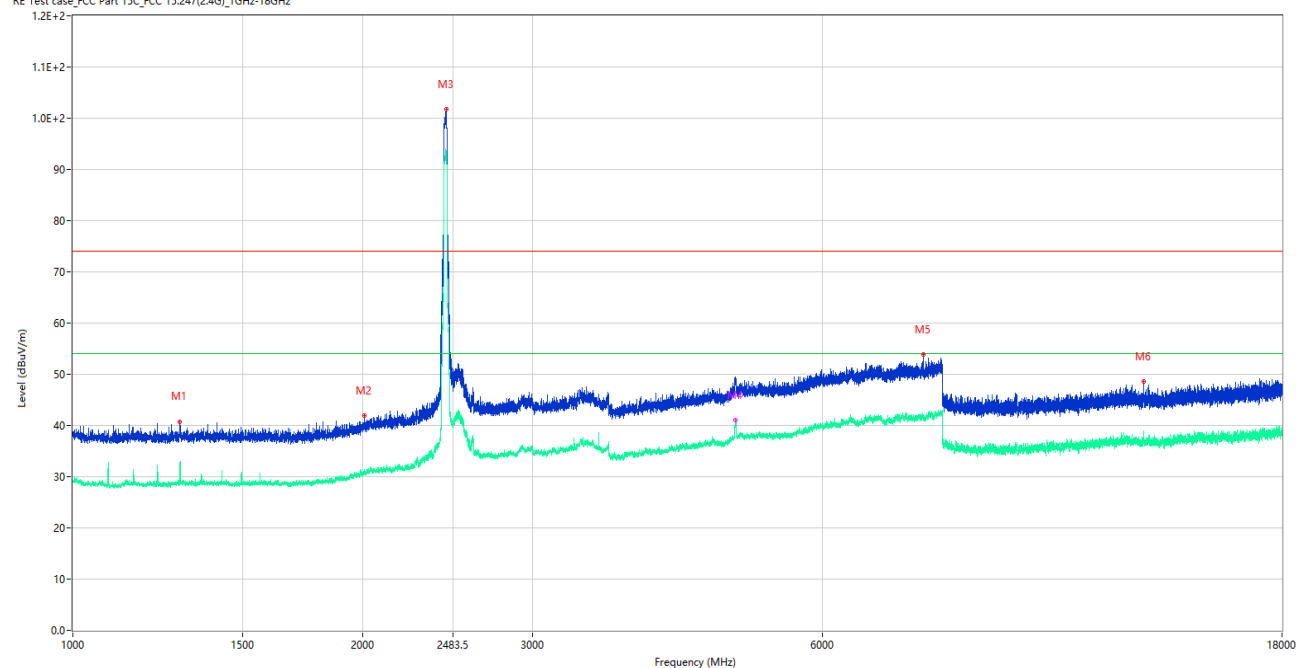
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1292.500	40.40	-15.79	74.0	33.60	Peak	193.00	150	Vertical	Pass
1**	1292.500	33.98	-15.79	54.0	20.02	AV	193.00	150	Vertical	Pass
2	2057.250	41.89	-13.84	74.0	32.11	Peak	0.00	150	Vertical	Pass
2**	2057.250	30.96	-13.84	54.0	23.04	AV	0.00	150	Vertical	Pass
3	2438.250	105.39	-12.38	74.0	-31.39	Peak	219.00	150	Vertical	N/A
3**	2438.250	97.01	-12.38	54.0	-43.01	AV	219.00	150	Vertical	N/A
4	4875.000	47.86	-2.26	74.0	26.14	Peak	272.00	150	Vertical	Pass
4**	4875.000	40.01	-2.26	54.0	13.99	AV	272.00	150	Vertical	Pass
5	7918.000	53.01	1.93	74.0	20.99	Peak	242.00	150	Vertical	Pass
5**	7918.000	42.59	1.93	54.0	11.41	AV	242.00	150	Vertical	Pass
6	12651.500	47.95	-3.19	74.0	26.05	Peak	212.00	150	Vertical	Pass
6**	12651.500	36.78	-3.19	54.0	17.22	AV	212.00	150	Vertical	Pass

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

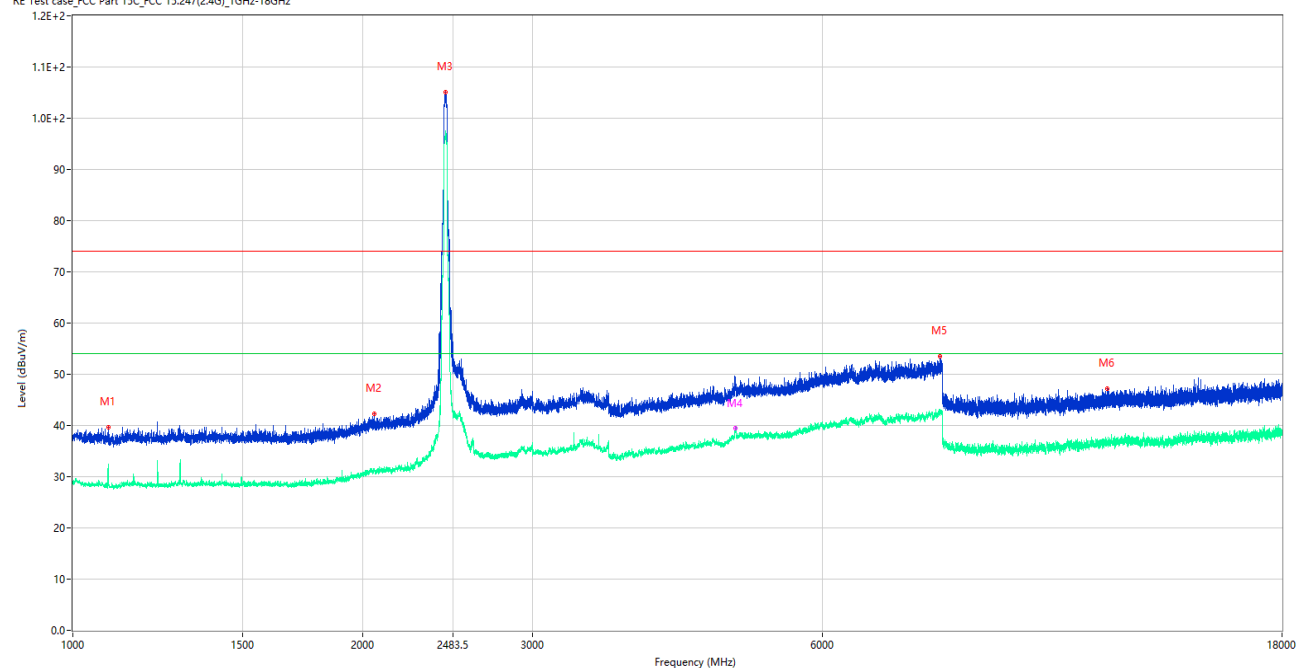
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1292.000	40.73	-15.81	74.0	33.27	Peak	341.00	150	Horizontal	Pass
1**	1292.000	32.69	-15.81	54.0	21.31	AV	341.00	150	Horizontal	Pass
2	2006.000	41.91	-14.22	74.0	32.09	Peak	0.00	150	Horizontal	Pass
2**	2006.000	30.71	-14.22	54.0	23.29	AV	0.00	150	Horizontal	Pass
3	2439.750	101.68	-12.37	74.0	-27.68	Peak	96.00	150	Horizontal	N/A
3**	2439.750	93.15	-12.37	54.0	-39.15	AV	96.00	150	Horizontal	N/A
4	4872.500	48.70	-2.22	74.0	25.30	Peak	121.00	150	Horizontal	Pass
4**	4872.500	41.02	-2.22	54.0	12.98	AV	121.00	150	Horizontal	Pass
5	7631.500	53.84	0.66	74.0	20.16	Peak	90.00	150	Horizontal	Pass
5**	7631.500	42.13	0.66	54.0	11.87	AV	90.00	150	Horizontal	Pass
6	12935.000	48.55	-1.99	74.0	25.45	Peak	185.00	150	Horizontal	Pass
6**	12935.000	37.66	-1.99	54.0	16.34	AV	185.00	150	Horizontal	Pass

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

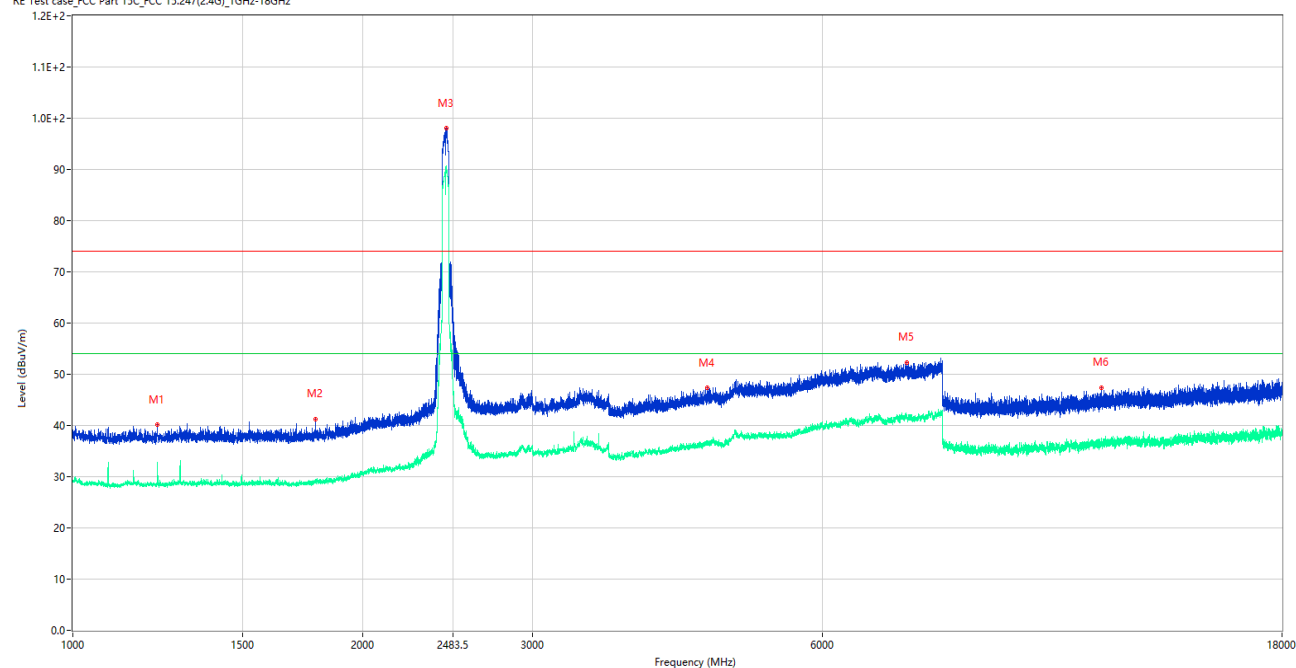
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1088.500	39.69	-15.79	74.0	34.31	Peak	169.00	150	Vertical	Pass
1**	1088.500	32.45	-15.79	54.0	21.55	AV	169.00	150	Vertical	Pass
2	2054.500	42.29	-13.77	74.0	31.71	Peak	261.00	150	Vertical	Pass
2**	2054.500	31.37	-13.77	54.0	22.63	AV	261.00	150	Vertical	Pass
3	2439.500	105.11	-12.37	74.0	-31.11	Peak	228.00	150	Vertical	N/A
3**	2439.500	97.16	-12.37	54.0	-43.16	AV	228.00	150	Vertical	N/A
4	4874.000	47.32	-2.23	74.0	26.68	Peak	137.00	150	Vertical	Pass
4**	4874.000	39.40	-2.23	54.0	14.60	AV	137.00	150	Vertical	Pass
5	7952.000	53.57	2.18	74.0	20.43	Peak	199.00	150	Vertical	Pass
5**	7952.000	42.53	2.18	54.0	11.47	AV	199.00	150	Vertical	Pass
6	11852.000	47.20	-3.83	74.0	26.80	Peak	206.00	150	Vertical	Pass
6**	11852.000	36.66	-3.83	54.0	17.34	AV	206.00	150	Vertical	Pass

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

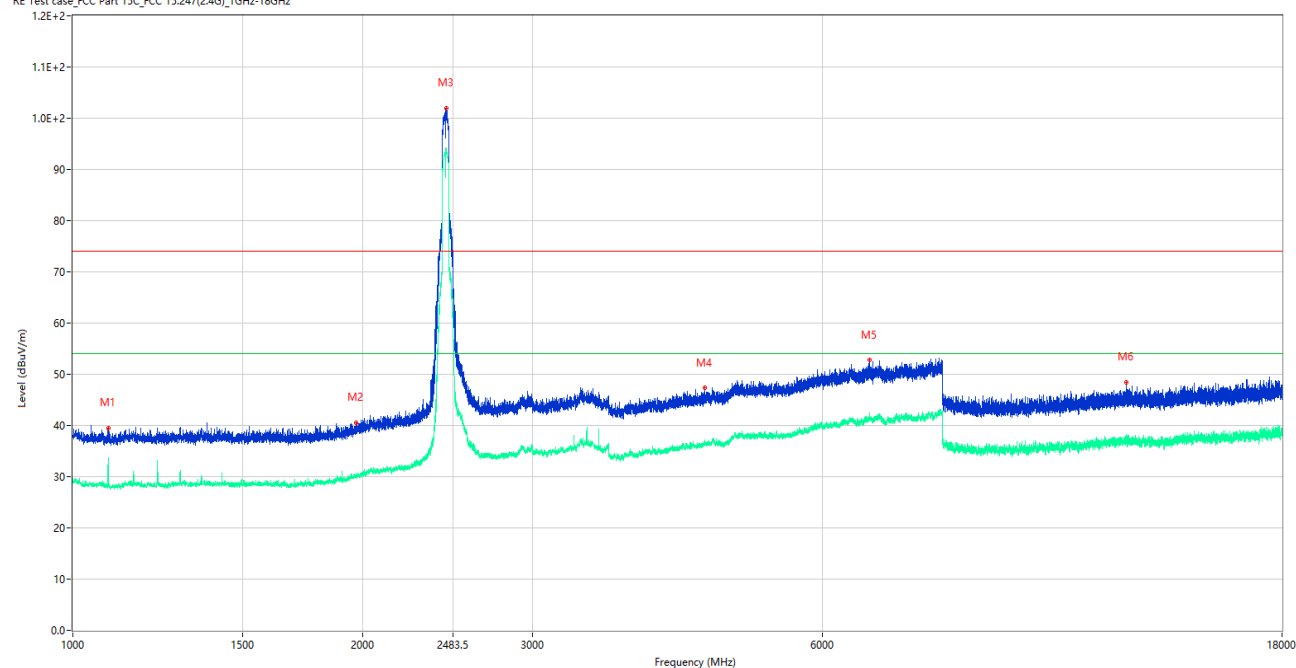
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1224.250	40.09	-16.00	74.0	33.91	Peak	167.00	150	Horizontal	Pass
1**	1224.250	32.76	-16.00	54.0	21.24	AV	167.00	150	Horizontal	Pass
2	1786.000	41.26	-15.93	74.0	32.74	Peak	74.00	150	Horizontal	Pass
2**	1786.000	28.75	-15.93	54.0	25.25	AV	74.00	150	Horizontal	Pass
3	2441.500	98.03	-12.41	74.0	-24.03	Peak	93.00	150	Horizontal	N/A
3**	2441.500	89.87	-12.41	54.0	-35.87	AV	93.00	150	Horizontal	N/A
4	4554.500	47.35	-2.91	74.0	26.65	Peak	235.00	150	Horizontal	Pass
4**	4554.500	36.44	-2.91	54.0	17.56	AV	235.00	150	Horizontal	Pass
5	7340.000	52.30	1.16	74.0	21.70	Peak	69.00	150	Horizontal	Pass
5**	7340.000	41.81	1.16	54.0	12.19	AV	69.00	150	Horizontal	Pass
6	11686.000	47.41	-2.77	74.0	26.59	Peak	10.00	150	Horizontal	Pass
6**	11686.000	36.47	-2.77	54.0	17.53	AV	10.00	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	1088.000	39.45	-15.80	74.0	34.55	Peak	210.00	150	Vertical	Pass
1**	1088.000	33.04	-15.80	54.0	20.96	AV	210.00	150	Vertical	Pass
2	1968.000	40.57	-14.86	74.0	33.43	Peak	307.00	150	Vertical	Pass
2**	1968.000	30.03	-14.86	54.0	23.97	AV	307.00	150	Vertical	Pass
3	2439.750	101.95	-12.37	74.0	-27.95	Peak	229.00	150	Vertical	N/A
3**	2439.750	94.07	-12.37	54.0	-40.07	AV	229.00	150	Vertical	N/A
4	4527.500	47.36	-2.37	74.0	26.64	Peak	212.00	150	Vertical	Pass
4**	4527.500	36.29	-2.37	54.0	17.71	AV	212.00	150	Vertical	Pass
5	6709.500	52.80	0.20	74.0	21.20	Peak	55.00	150	Vertical	Pass
5**	6709.500	41.26	0.20	54.0	12.74	AV	55.00	150	Vertical	Pass
6	12414.000	48.46	-2.43	74.0	25.54	Peak	359.00	150	Vertical	Pass
6**	12414.000	37.81	-2.43	54.0	16.19	AV	359.00	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.

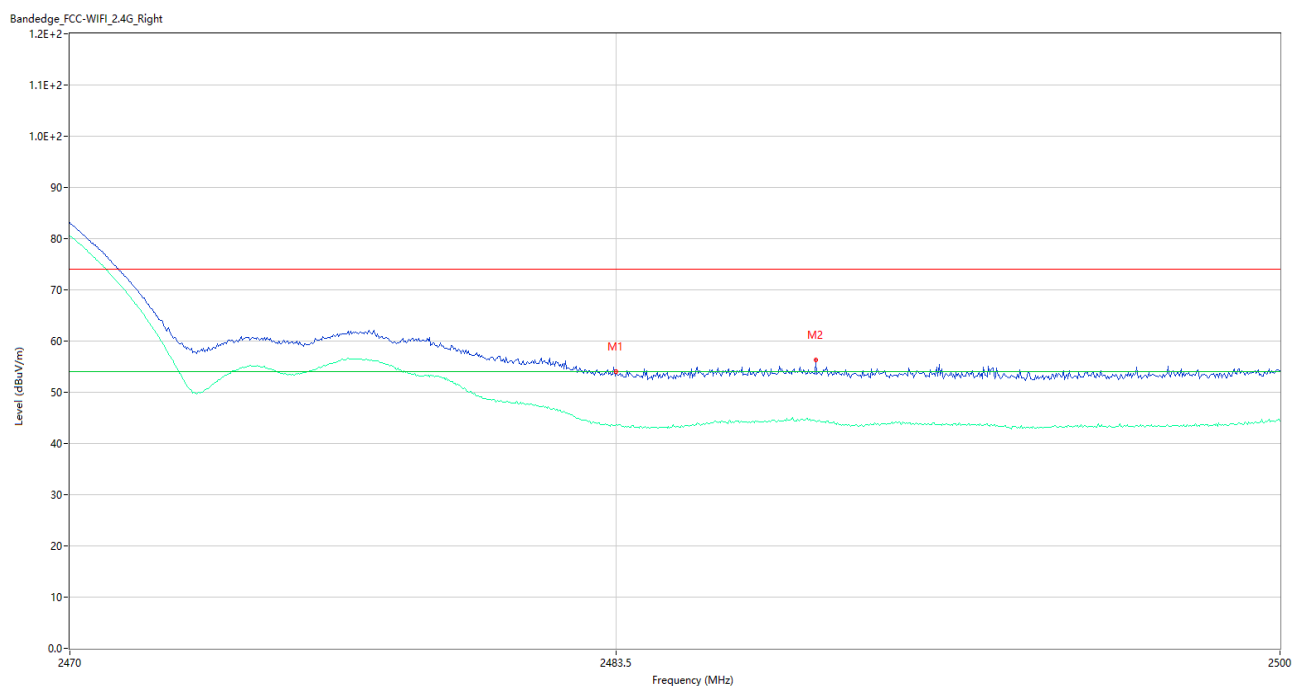
Test Data and Plots

802.11b LOW CHANNEL



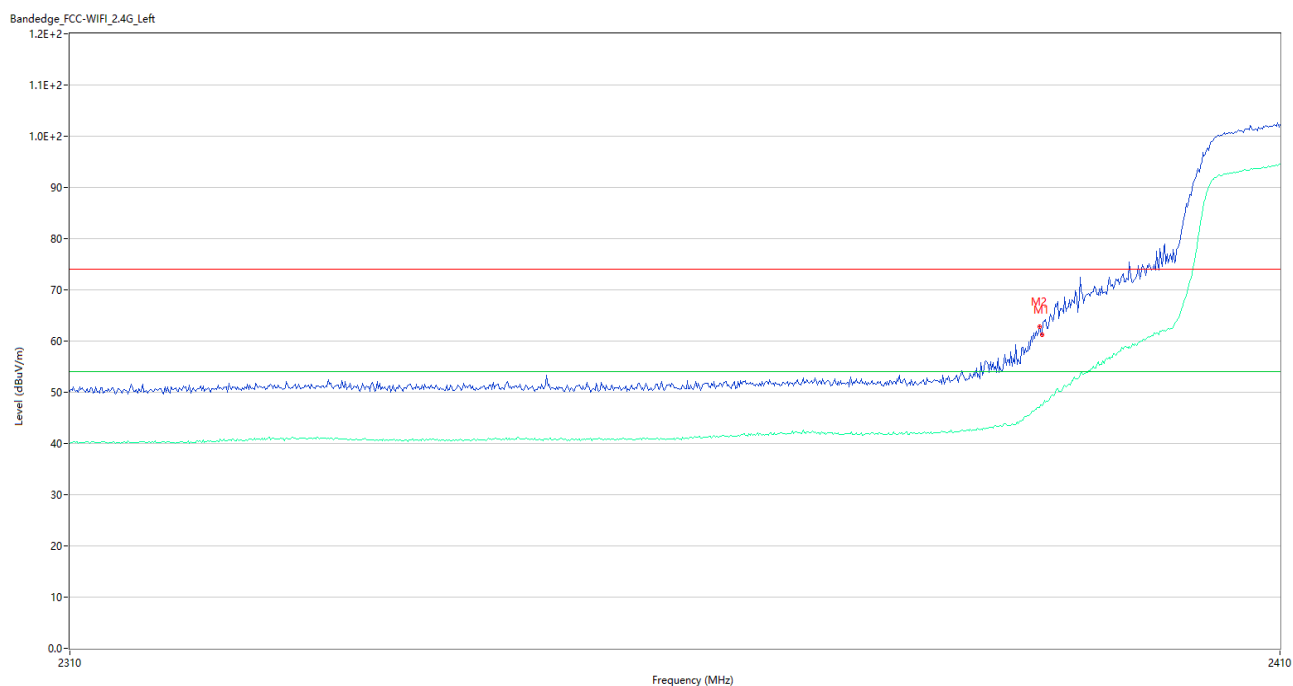
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	50.65	-4.87	74.0	23.35	Peak	320.81	100	Vertical	Pass
1**	2390.000	41.10	-4.87	54.0	12.90	AV	320.81	100	Vertical	Pass
2	2385.400	53.59	-4.61	74.0	20.41	Peak	233.00	100	Vertical	Pass
2**	2385.400	43.17	-4.61	54.0	10.83	AV	233.00	100	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	53.99	-3.78	74.0	20.01	Peak	360.00	150	Vertical	Pass
1**	2483.500	43.68	-3.78	54.0	10.32	AV	360.00	150	Vertical	Pass
2	2488.450	56.37	-3.82	74.0	17.63	Peak	360.00	150	Vertical	Pass
2**	2488.450	44.15	-3.82	54.0	9.85	AV	360.00	150	Vertical	Pass

802.11g LOW CHANNEL



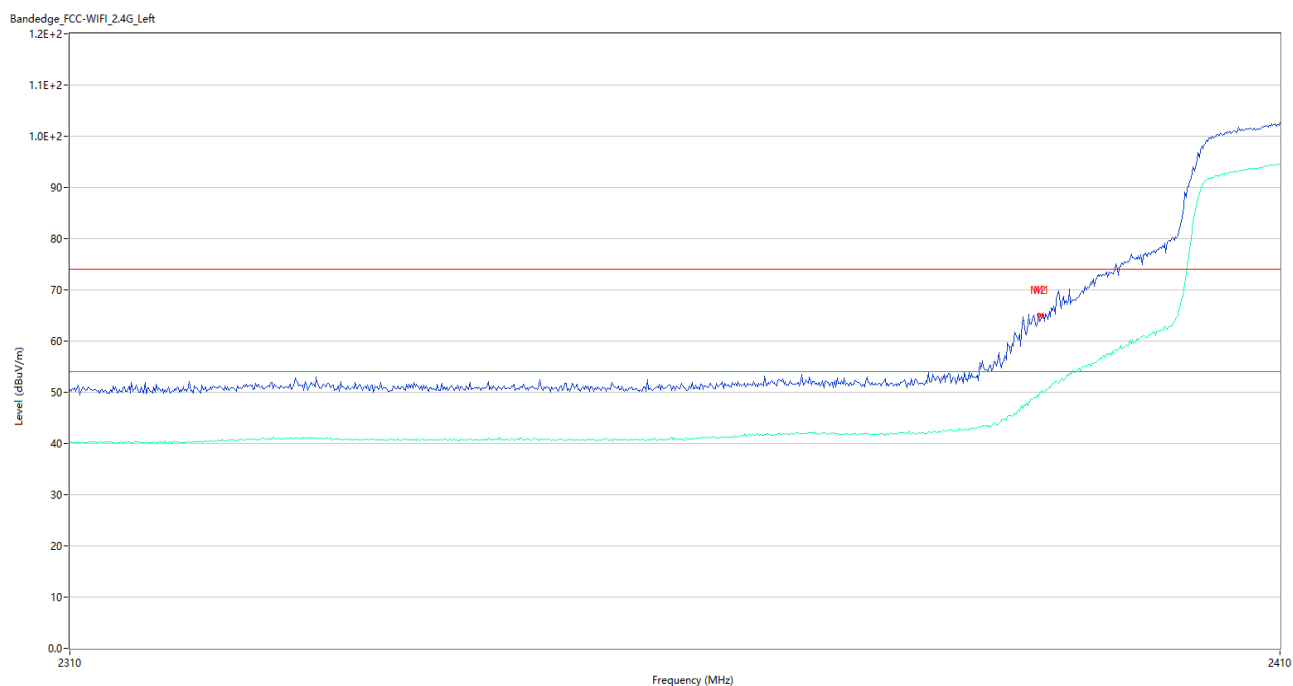
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	61.16	-4.87	74.0	12.84	Peak	198.00	150	Vertical	Pass
1**	2390.000	47.44	-4.87	54.0	6.56	AV	198.00	150	Vertical	Pass
2	2389.800	62.77	-4.86	74.0	11.23	Peak	198.00	150	Vertical	Pass
2**	2389.800	47.02	-4.86	54.0	6.98	AV	198.00	150	Vertical	Pass

802.11g HIGH CHANNEL



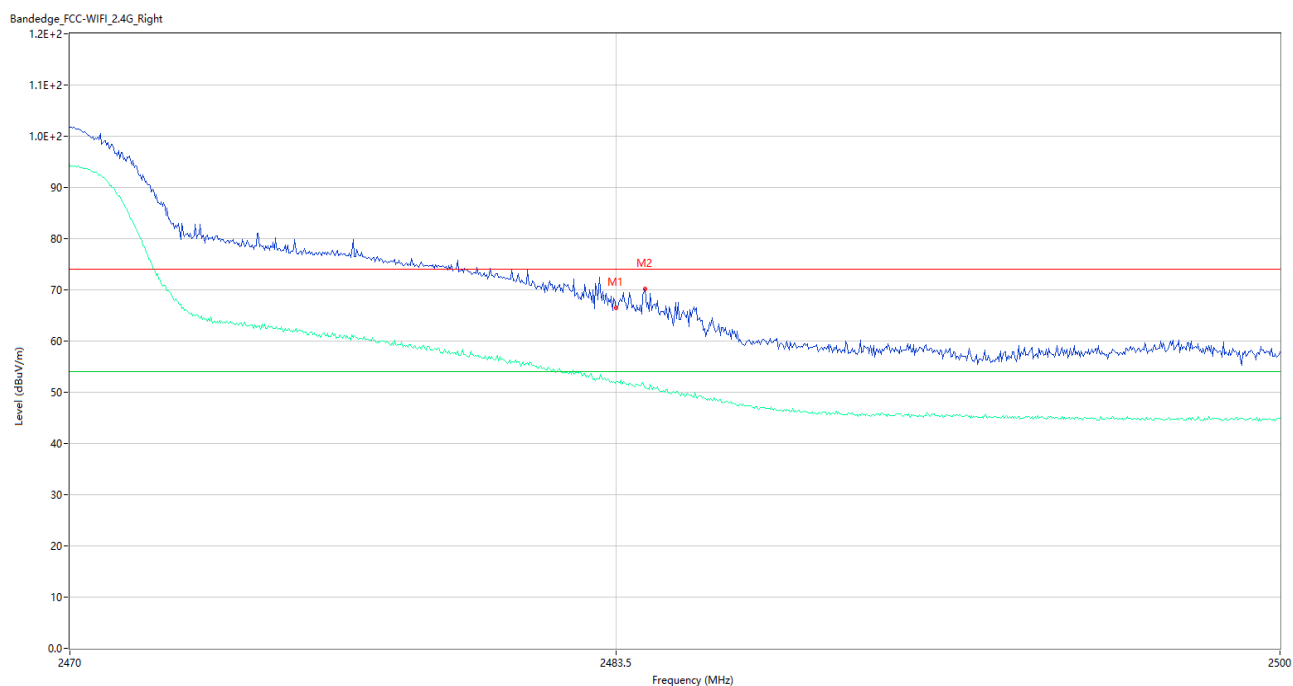
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	66.88	-3.78	74.0	7.12	Peak	0.00	150	Vertical	Pass
1**	2483.500	49.84	-3.78	54.0	4.16	AV	0.00	150	Vertical	Pass
2	2483.560	68.81	-3.78	74.0	5.19	Peak	0.00	150	Vertical	Pass
2**	2483.560	50.32	-3.78	54.0	3.68	AV	0.00	150	Vertical	Pass

802.11n20 LOW CHANNEL



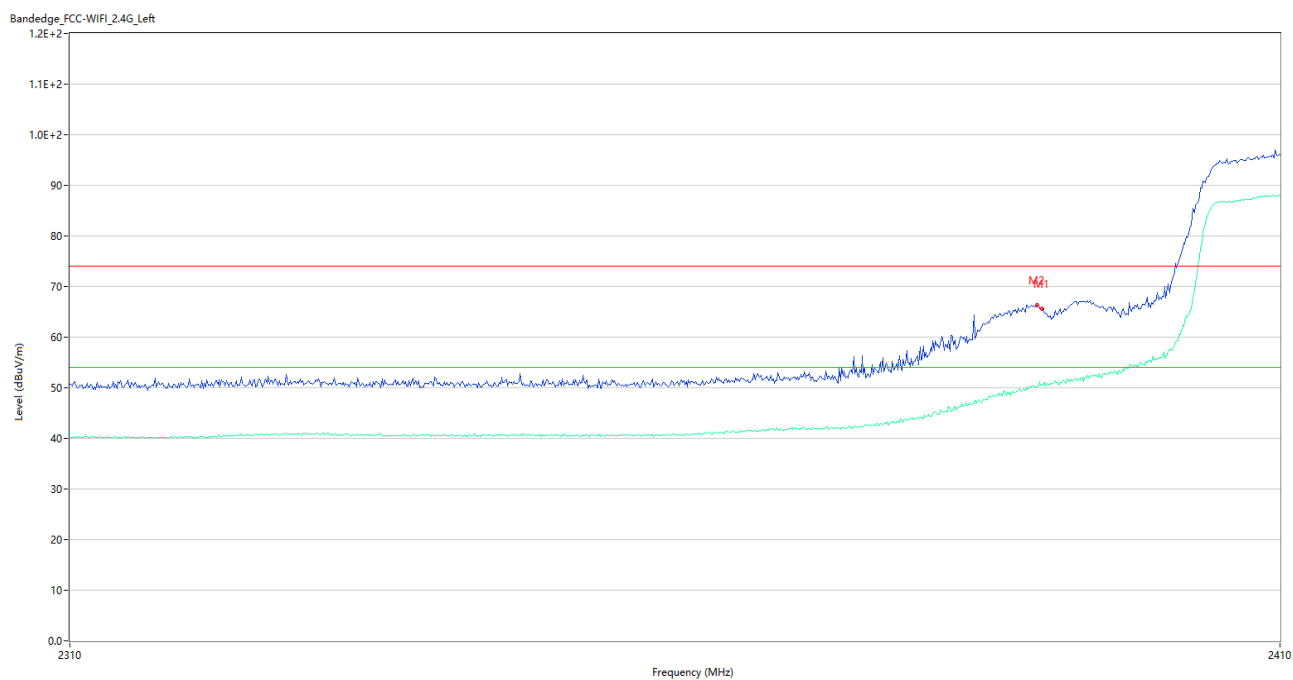
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	64.91	-4.87	74.0	9.09	Peak	210.05	150	Vertical	Pass
1**	2390.000	50.37	-4.87	54.0	3.63	AV	210.05	150	Vertical	Pass
2	2389.700	65.07	-4.86	74.0	8.93	Peak	286.00	150	Vertical	Pass
2**	2389.700	49.15	-4.86	54.0	4.85	AV	286.00	150	Vertical	Pass

802.11n20 HIGH CHANNEL



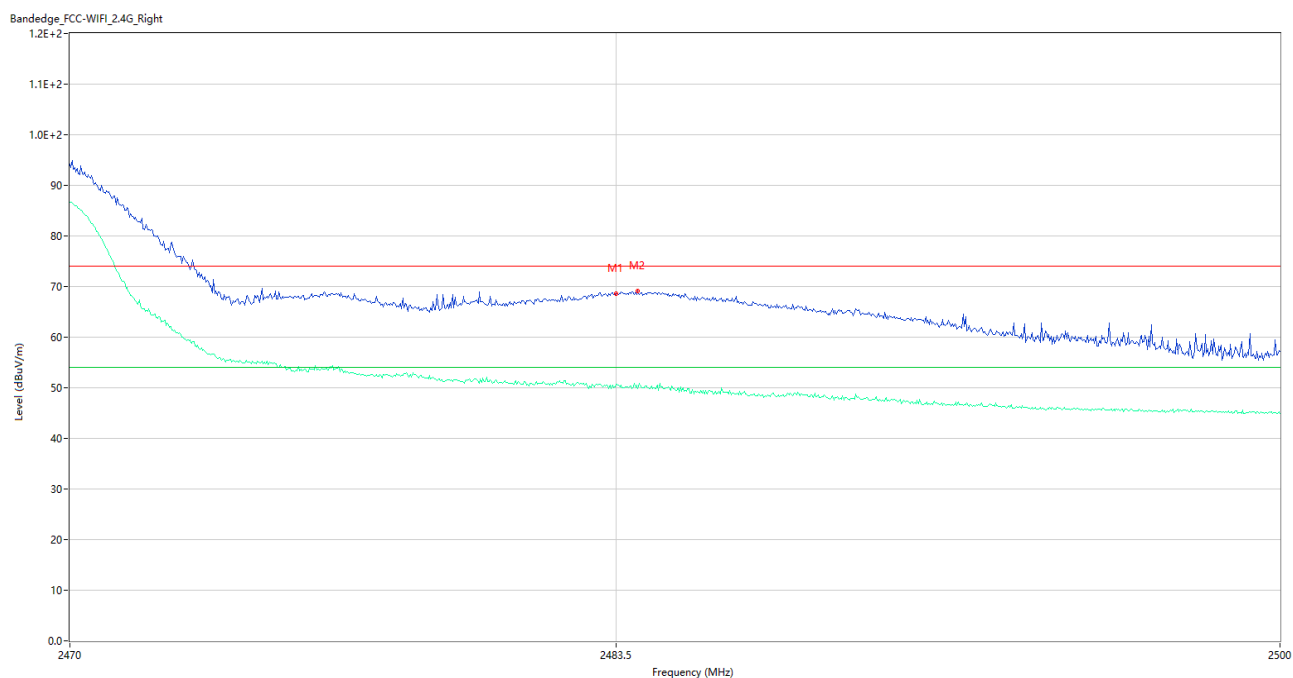
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	66.51	-3.78	74.0	7.49	Peak	341.00	150	Vertical	Pass
1**	2483.500	52.03	-3.78	54.0	1.97	AV	341.00	150	Vertical	Pass
2	2484.220	70.26	-3.78	74.0	3.74	Peak	360.00	150	Vertical	Pass
2**	2484.220	50.95	-3.78	54.0	3.05	AV	360.00	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	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	68.63	-3.78	74.0	5.37	Peak	0.00	150	Vertical	Pass
1**	2483.500	50.63	-3.78	54.0	3.37	AV	0.00	150	Vertical	Pass
2	2484.040	69.06	-3.78	74.0	4.94	Peak	9.00	150	Vertical	Pass
2**	2484.040	49.83	-3.78	54.0	4.17	AV	9.00	150	Vertical	Pass

A.8 Power Spectral Density (PSD)

Test Data

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-6.75	8
Middle	-6.73	8
High	-6.82	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-7.54	8
Middle	-7.77	8
High	-7.41	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-8.05	8
Middle	-7.99	8
High	-7.74	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-13.38	8
Middle	-13.23	8
High	-14.27	8

Test Plots

802.11b LOW CHANNEL



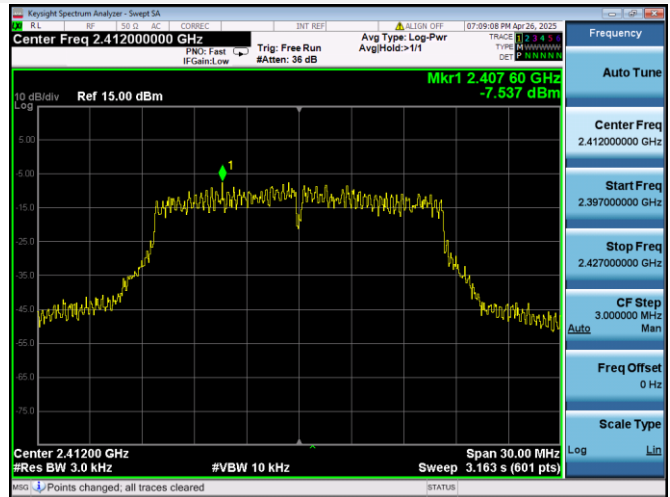
802.11b MIDDLE CHANNEL



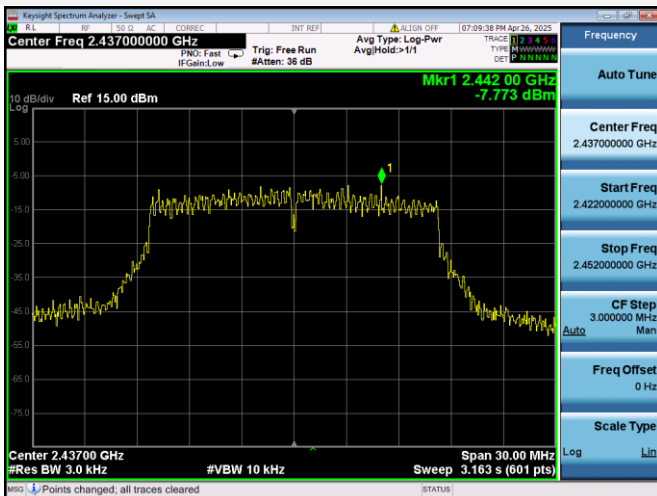
802.11b HIGH CHANNEL



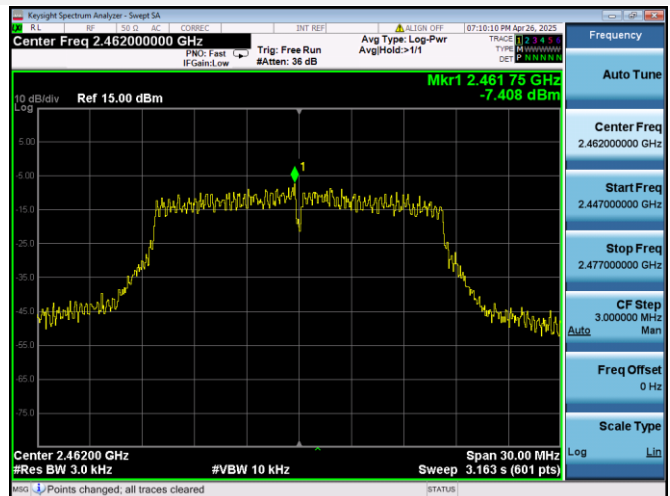
802.11g LOW CHANNEL



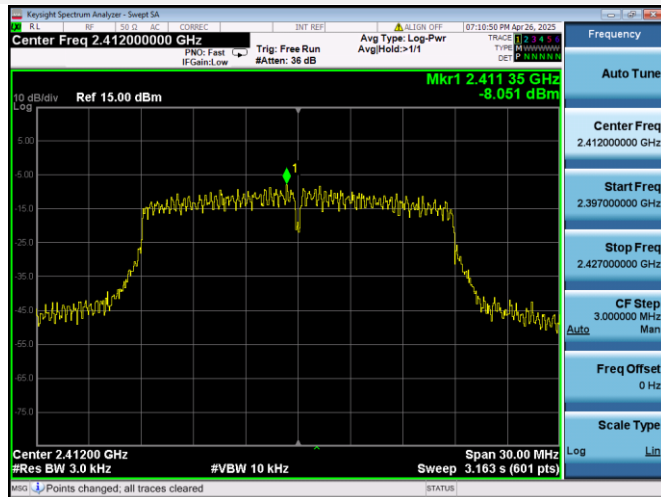
802.11g MIDDLE CHANNEL



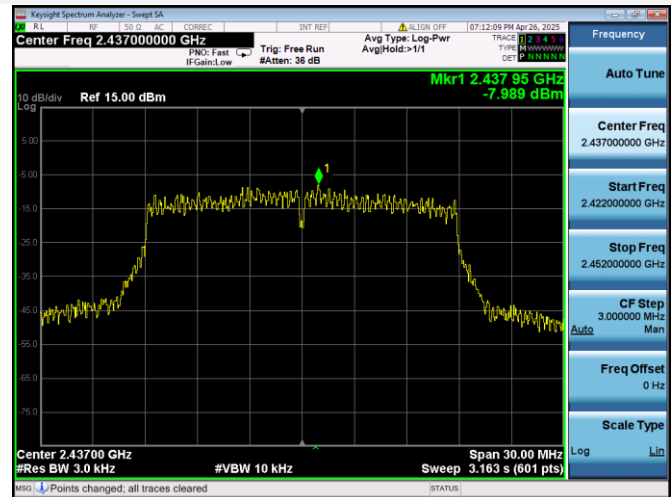
802.11g HIGH CHANNEL



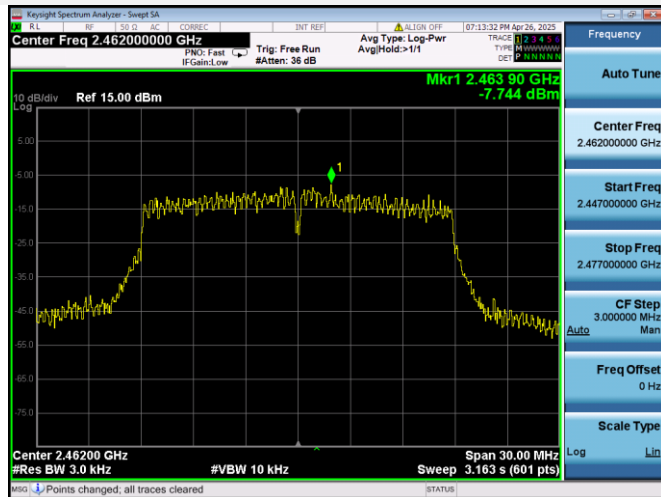
802.11n-20 MHz LOW CHANNEL



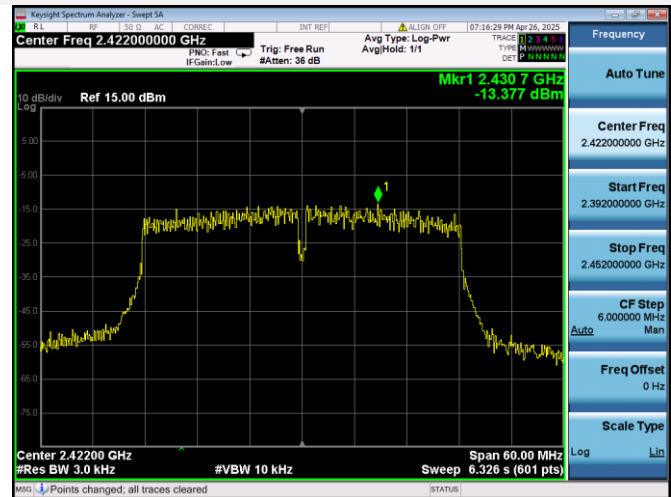
802.11n-20 MHz MIDDLE CHANNEL



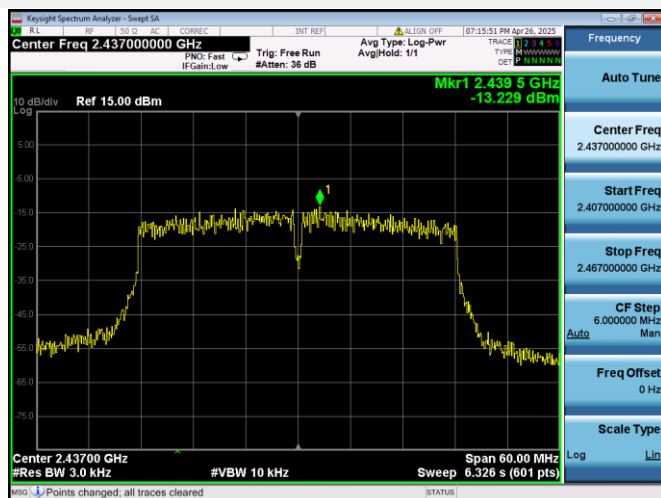
802.11n-20 MHz HIGH CHANNEL



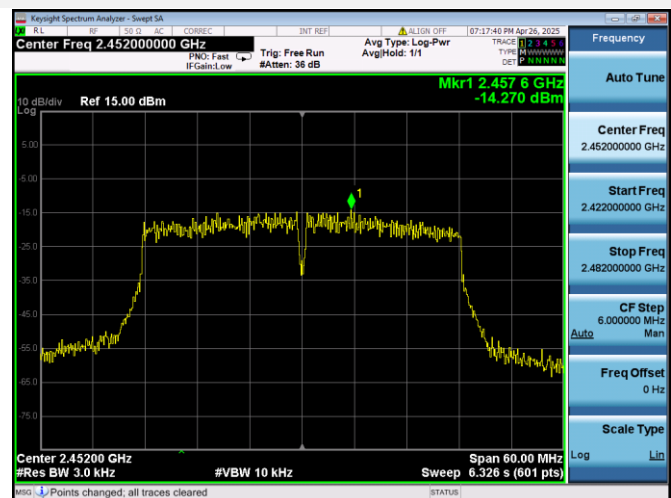
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH2540315-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH2540315-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH2540315-AI.PDF”.

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--END OF REPORT--