

Antenna 1**802.11b Mode:**

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-39.24	3.54	-16.46	Pass
High Channel	-46.20	3.62	-16.38	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-31.98	1.67	-18.33	Pass
High Channel	-44.02	2.26	-17.74	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-30.48	-1.16	-21.16	Pass
High Channel	-45.85	-0.97	-20.97	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-38.44	-2.03	-22.03	Pass
High Channel	-43.34	-2.20	-22.20	Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-35.02	-0.01	-20.01	Pass
High Channel	-46.15	0.33	-19.67	Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-36.78	-2.30	-22.30	Pass
High Channel	-43.27	-2.65	-22.65	Pass

MIMO-Antenna 0

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-45.89	0.49	-19.51	Pass
High Channel	-46.55	0.18	-19.82	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-45.41	-2.47	-22.47	Pass
High Channel	-43.73	-2.43	-22.43	Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-45.74	0.37	-19.63	Pass
High Channel	-45.79	0.01	-19.99	Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-44.36	-2.88	-22.88	Pass
High Channel	-43.54	-2.66	-22.66	Pass

MIMO-Antenna 1

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-30.93	-0.52	-20.52	Pass
High Channel	-45.55	0.17	-19.83	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-38.94	-2.53	-22.53	Pass
High Channel	-43.50	-2.62	-22.62	Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-36.00	0.65	-19.36	Pass
High Channel	-44.75	0.41	-19.59	Pass

802.11ax-40 MHz(SU) Mode:

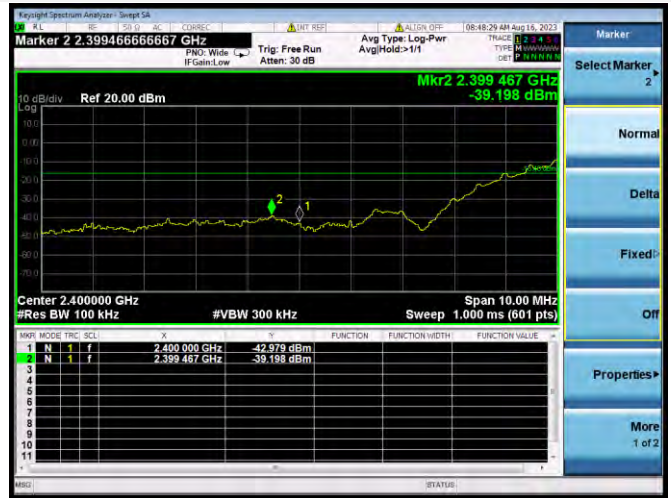
Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-36.78	-2.40	-22.40	Pass
High Channel	-42.00	-2.64	-22.64	Pass

Test Plots
Antenna 0

802.11b LOW CHANNEL, CARRIER LEVEL



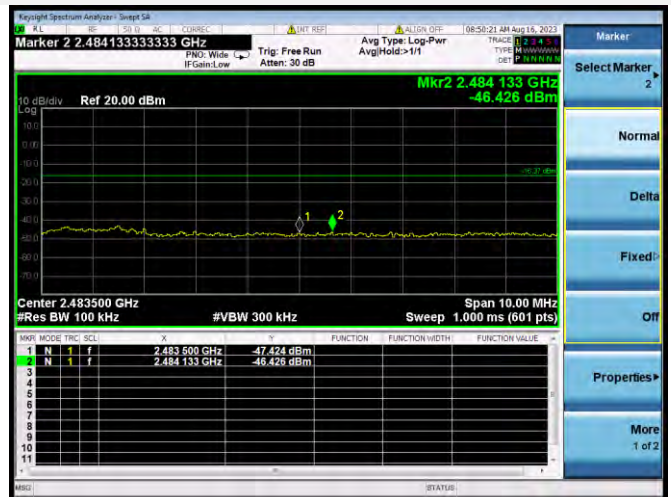
802.11b LOW CHANNEL, BAND EDGE



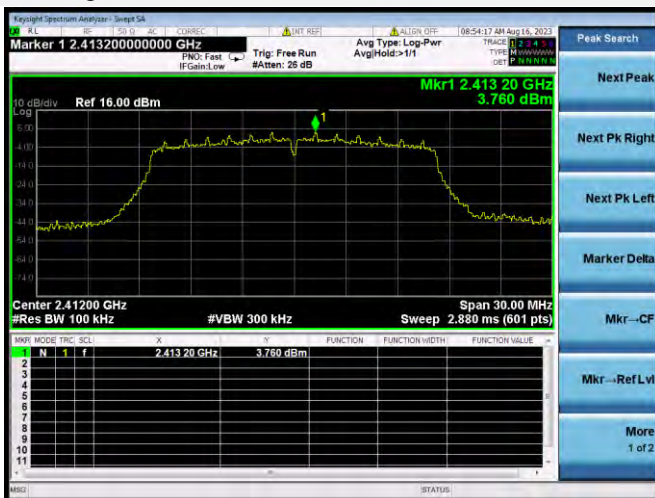
802.11b HIGH CHANNEL, CARRIER LEVEL



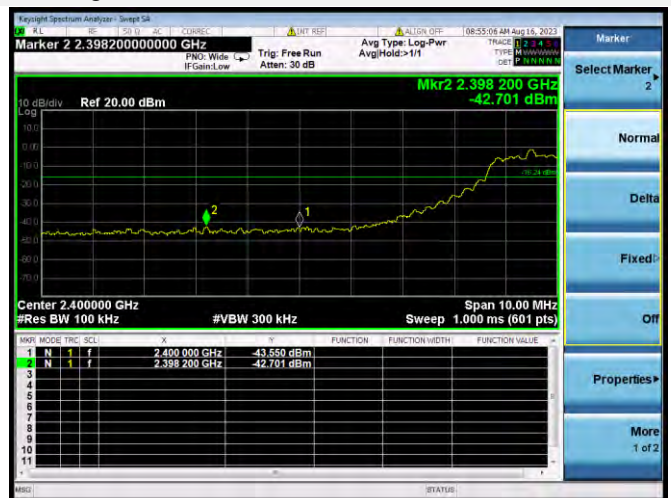
802.11b HIGH CHANNEL, BAND EDGE



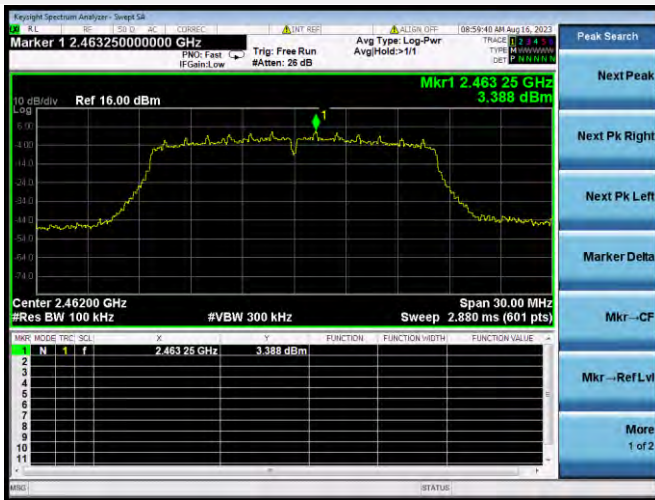
802.11g LOW CHANNEL, CARRIER LEVEL



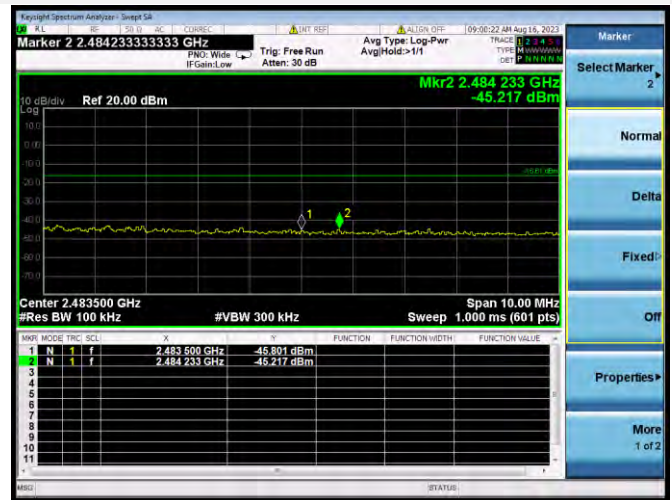
802.11g LOW CHANNEL, BAND EDGE



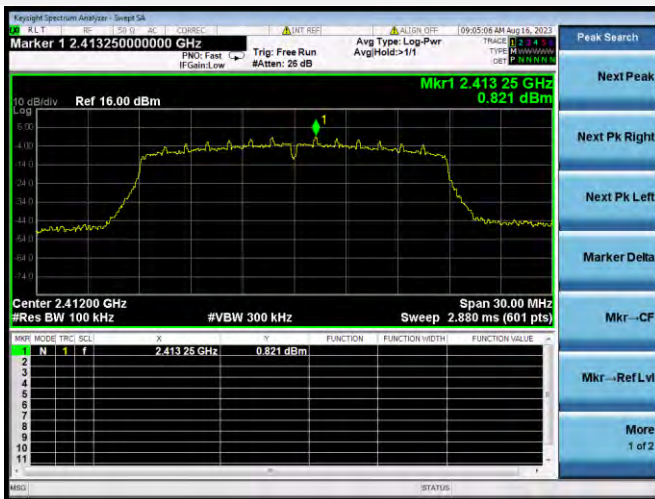
802.11g HIGH CHANNEL, CARRIER LEVEL



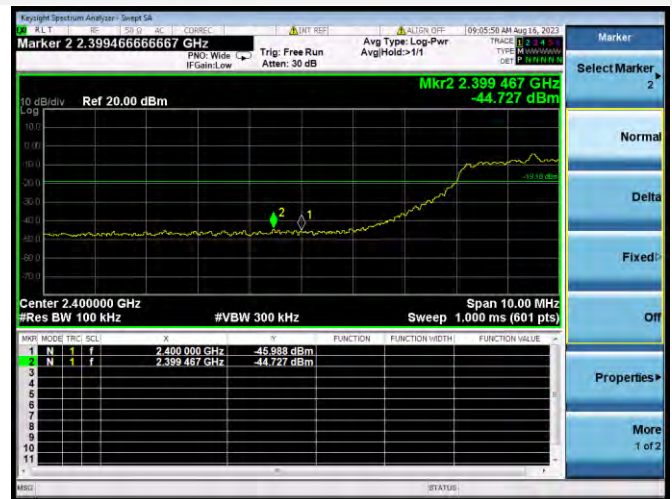
802.11g HIGH CHANNEL, BAND EDGE



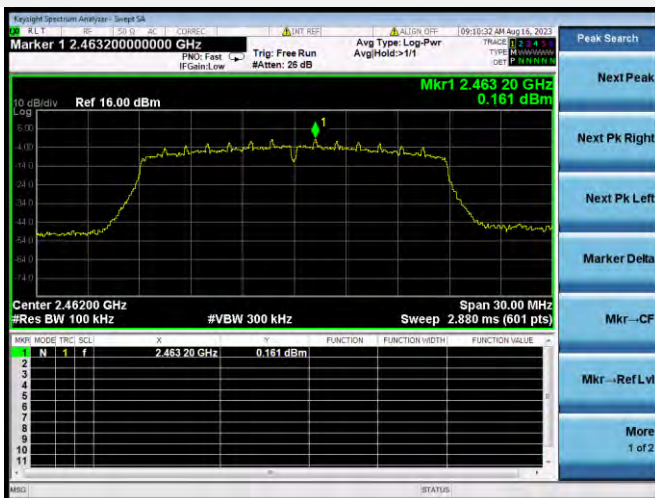
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



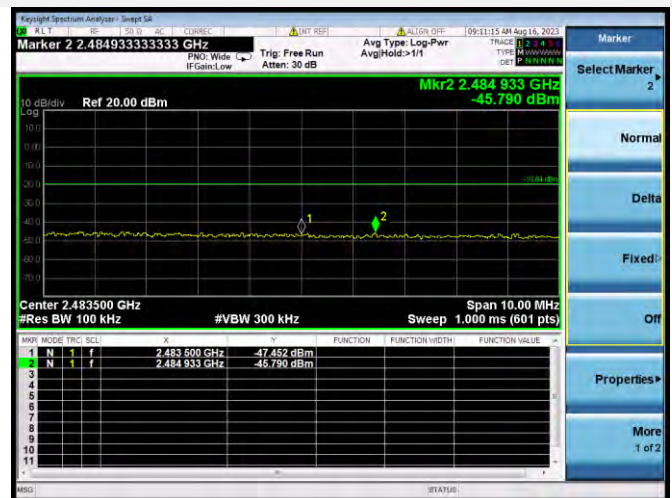
802.11n-20 MHz LOW CHANNEL, BAND EDGE



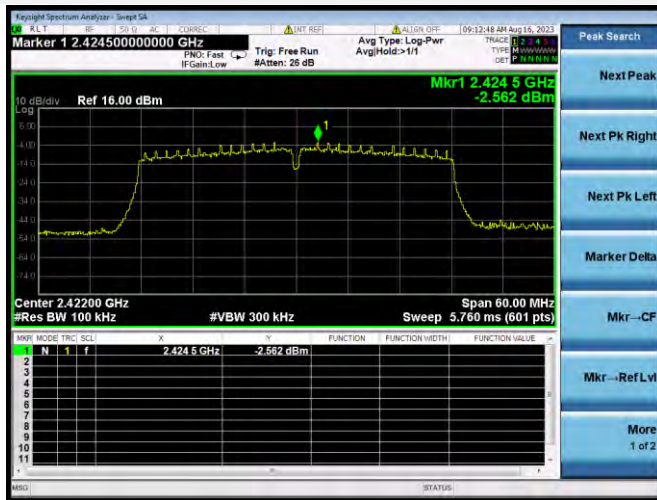
802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



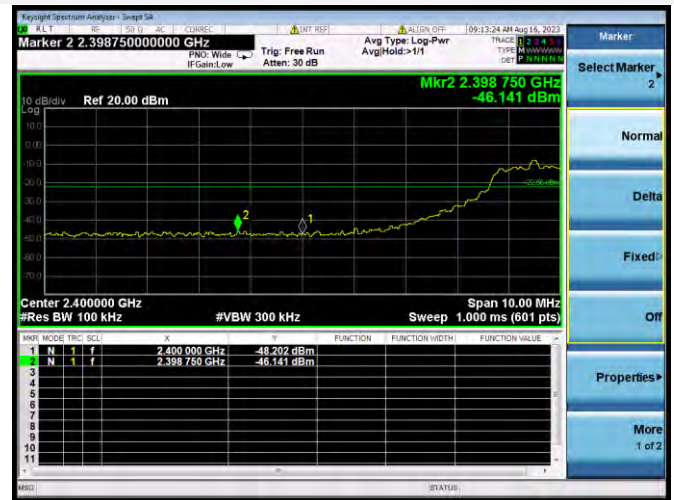
802.11n-20 MHz HIGH CHANNEL, BAND EDGE



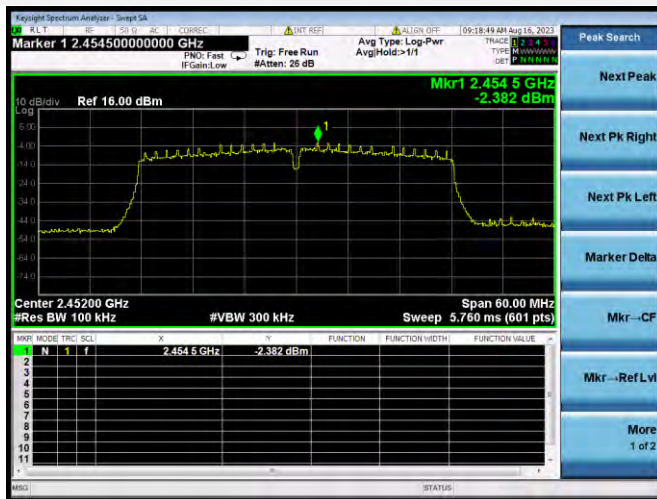
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



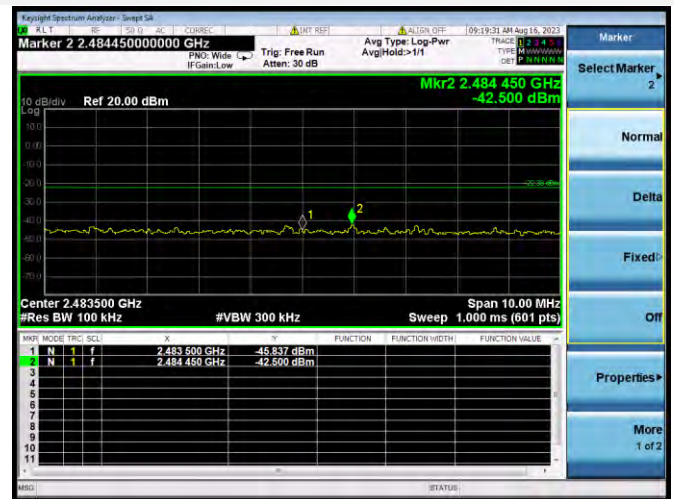
802.11n-40 MHz LOW CHANNEL, BAND EDGE



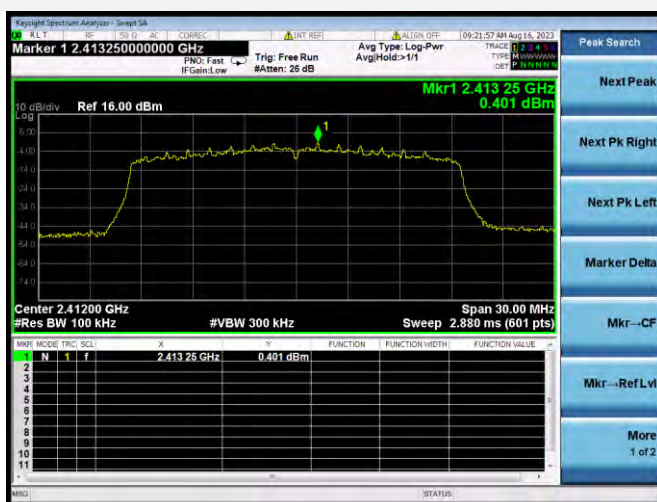
802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



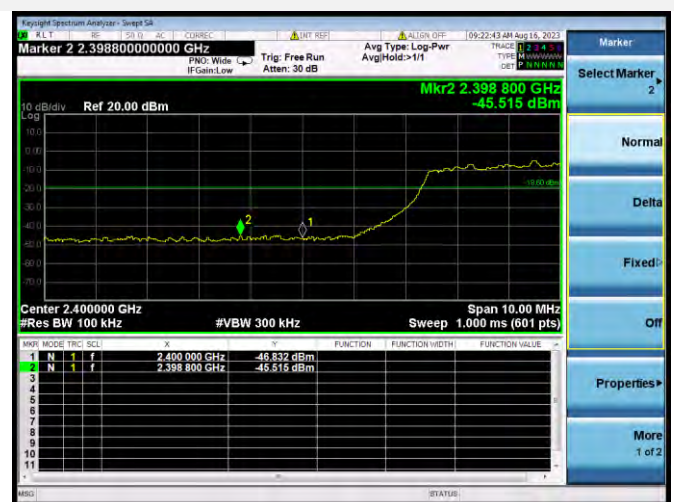
802.11n-40 MHz HIGH CHANNEL, BAND EDGE



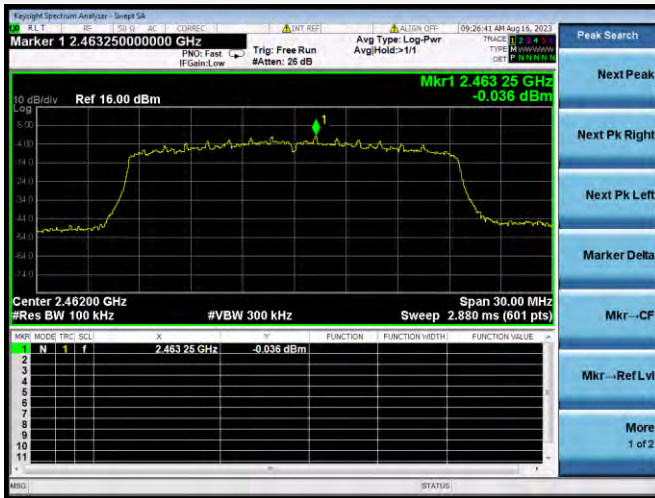
802.11ax-20 MHz(SU) LOW CHANNEL, CARRIER LEVEL



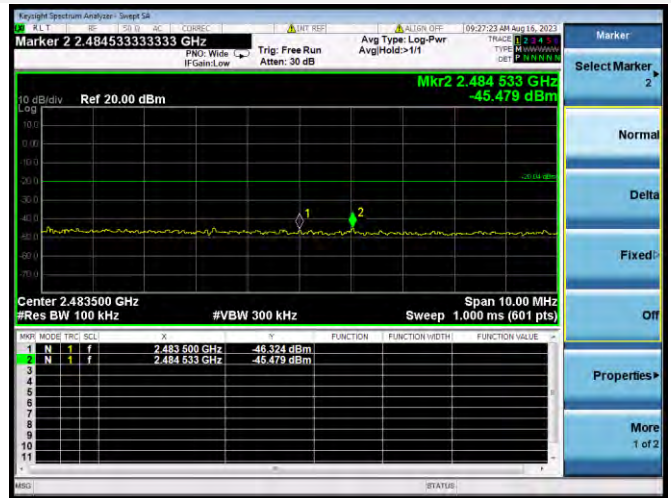
802.11ax-20 MHz(SU) LOW CHANNEL, BAND EDGE



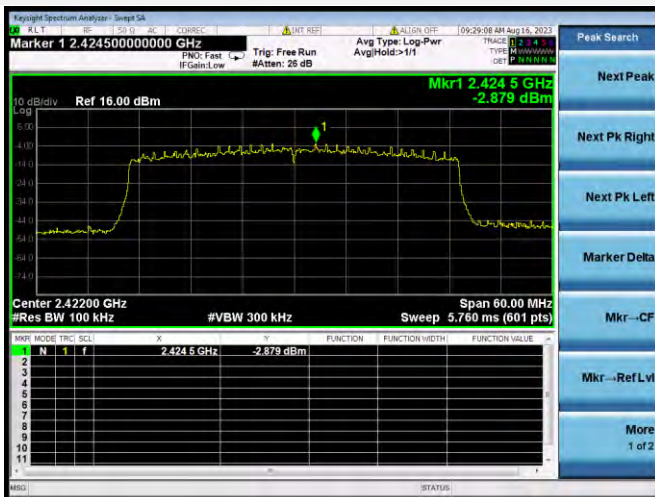
802.11ax-20 MHz(SU) HIGH CHANNEL, CARRIER LEVEL



802.11ax-20 MHz(SU) HIGH CHANNEL, BAND EDGE



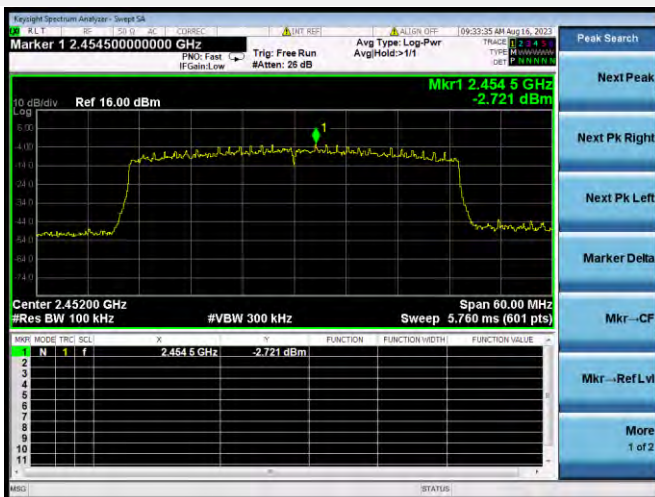
802.11ax-40 MHz(SU) LOW CHANNEL, CARRIER LEVEL



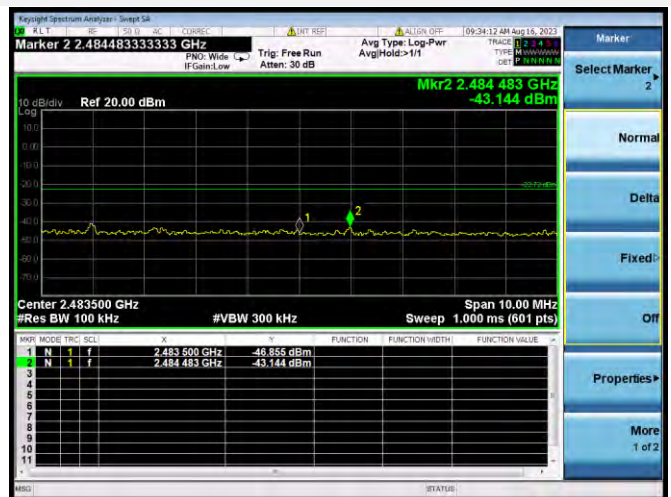
802.11ax-40 MHz(SU) LOW CHANNEL, BAND EDGE



802.11ax-40 MHz(SU) HIGH CHANNEL, CARRIER LEVEL

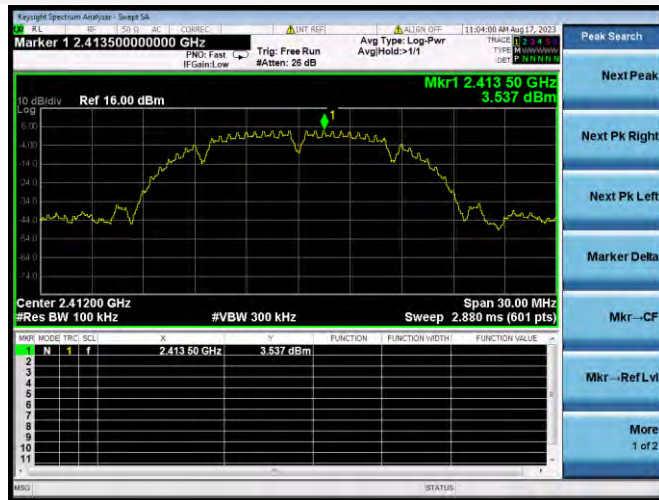


802.11ax-40 MHz(SU) HIGH CHANNEL, BAND EDGE

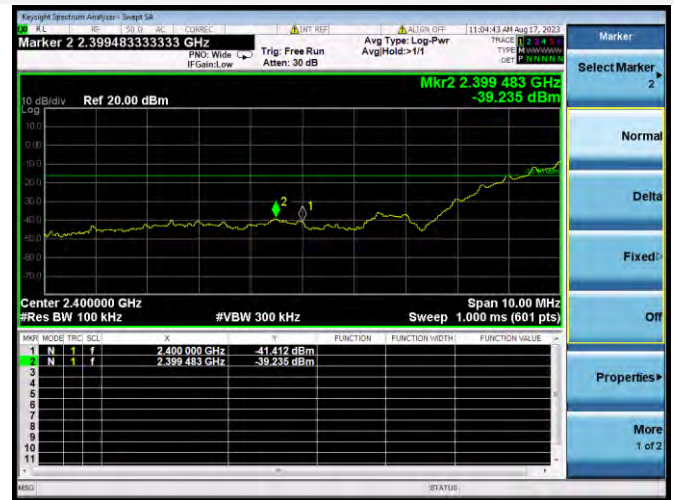


Antenna 1

802.11b LOW CHANNEL, CARRIER LEVEL



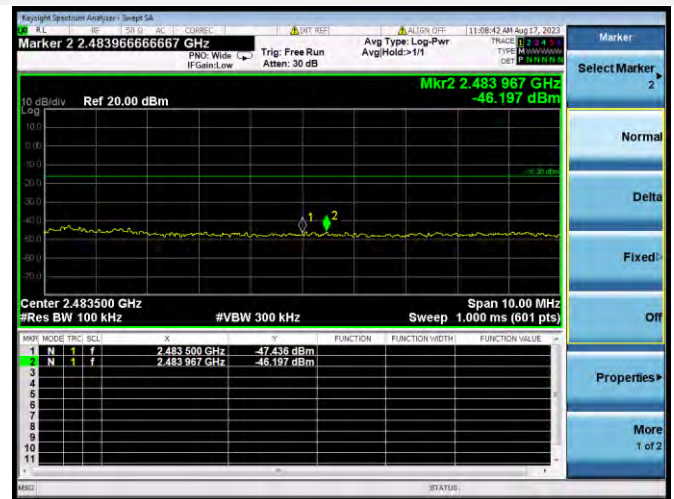
802.11b LOW CHANNEL, BAND EDGE



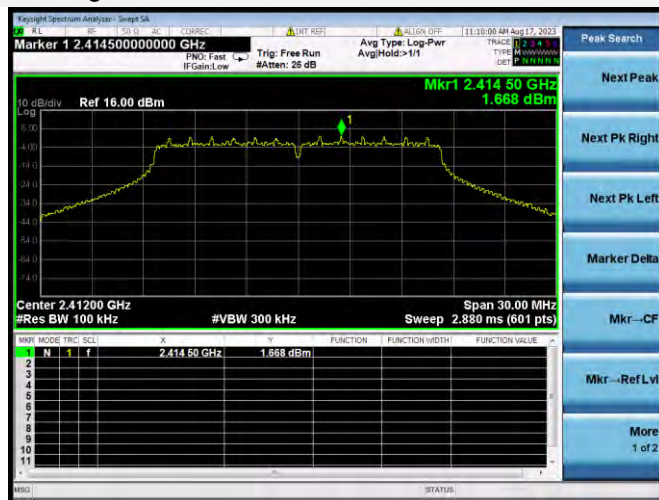
802.11b HIGH CHANNEL, CARRIER LEVEL



802.11b HIGH CHANNEL, BAND EDGE



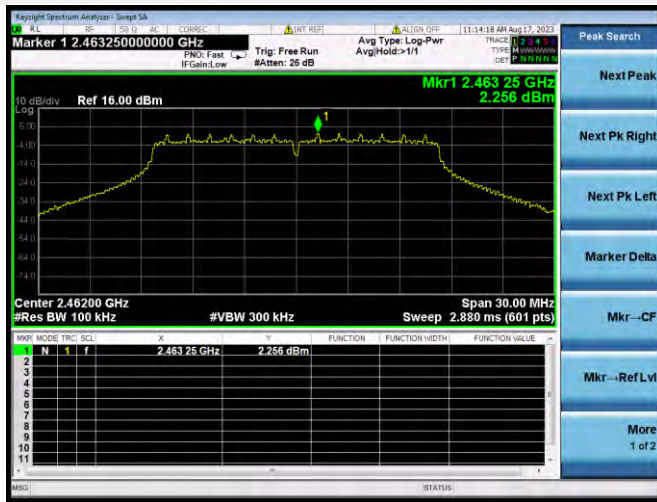
802.11g LOW CHANNEL, CARRIER LEVEL



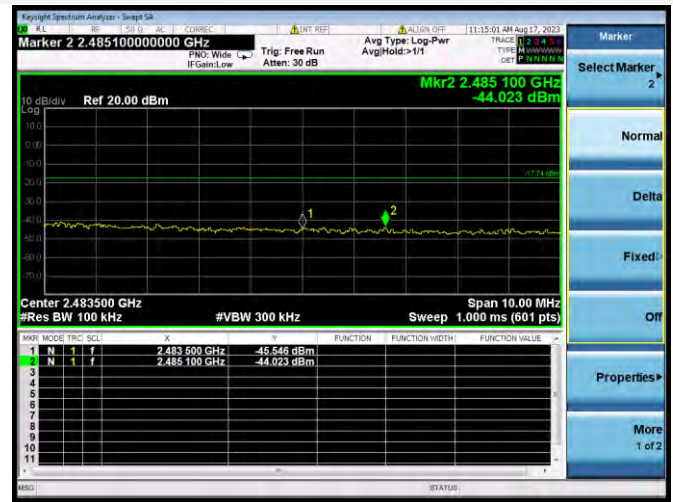
802.11g LOW CHANNEL, BAND EDGE



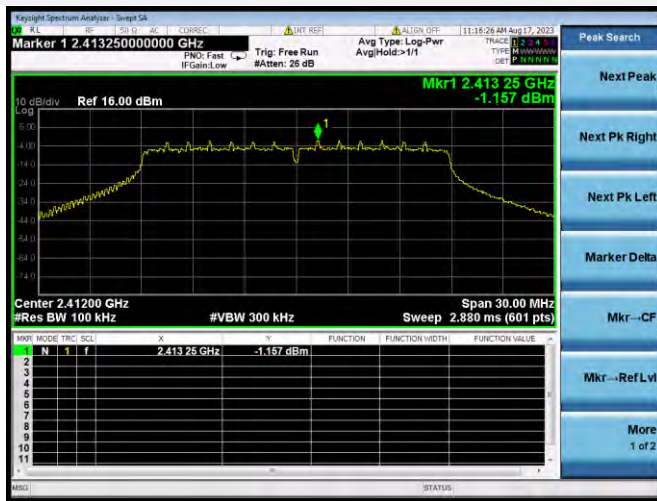
802.11g HIGH CHANNEL, CARRIER LEVEL



802.11g HIGH CHANNEL, BAND EDGE



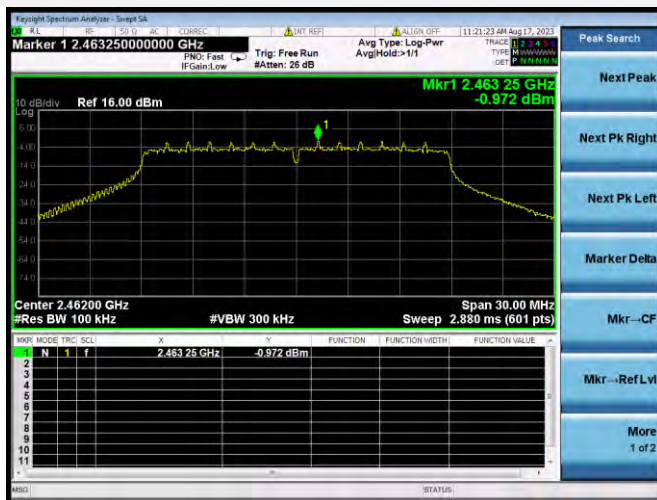
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



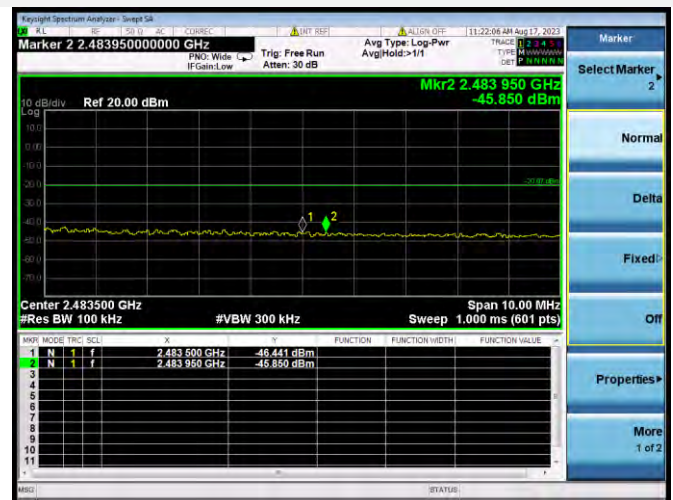
802.11n-20 MHz LOW CHANNEL, BAND EDGE



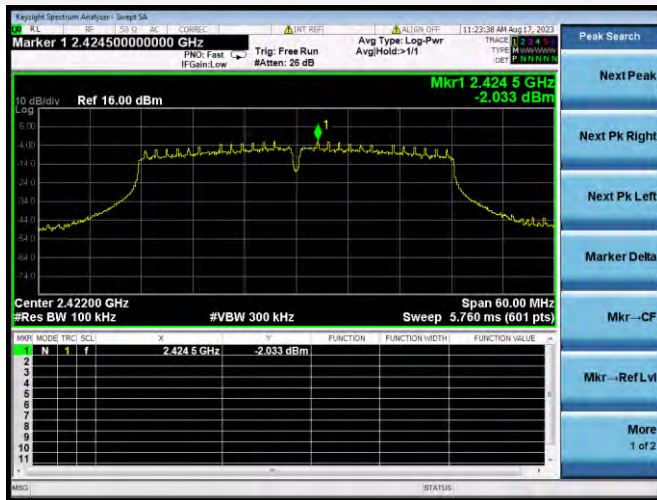
802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



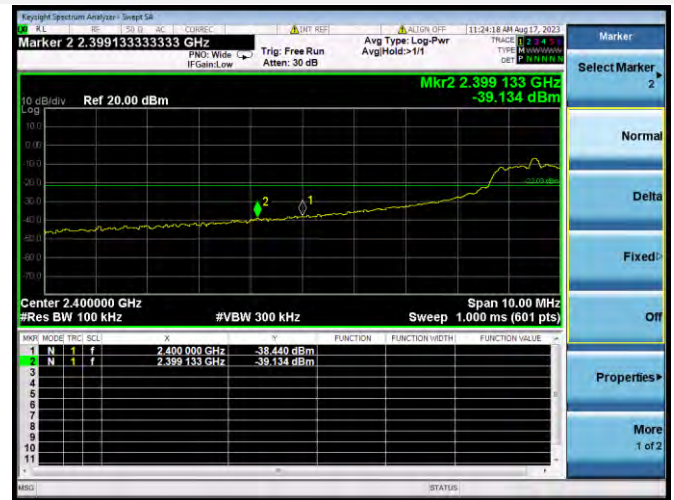
802.11n-20 MHz HIGH CHANNEL, BAND EDGE



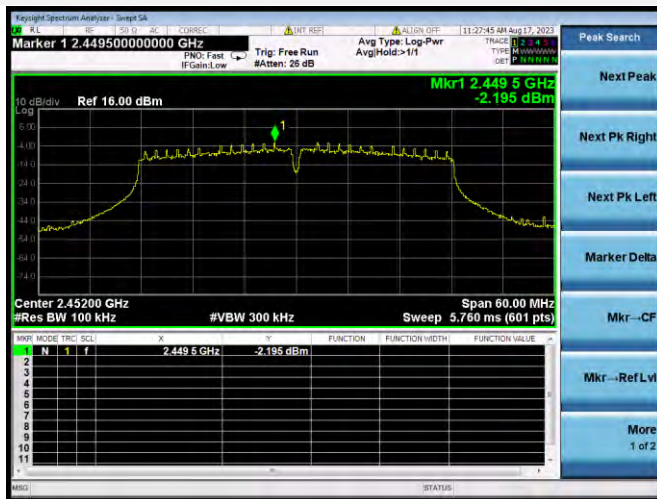
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



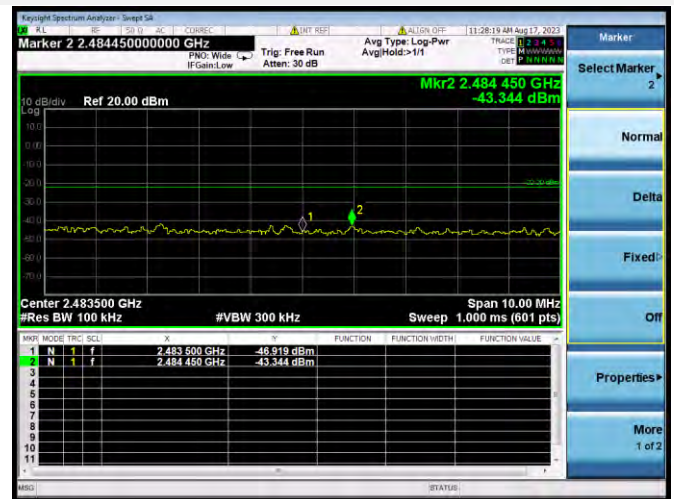
802.11n-40 MHz LOW CHANNEL, BAND EDGE



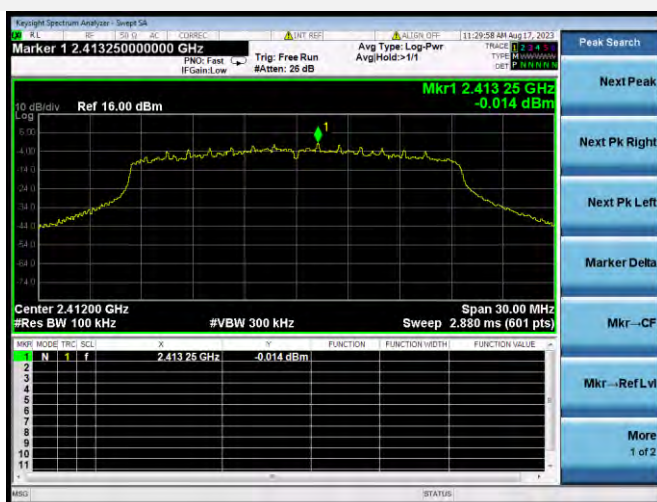
802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



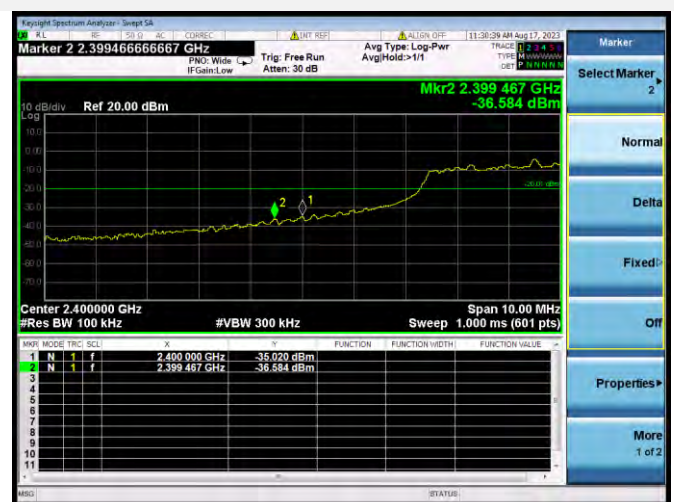
802.11n-40 MHz HIGH CHANNEL, BAND EDGE



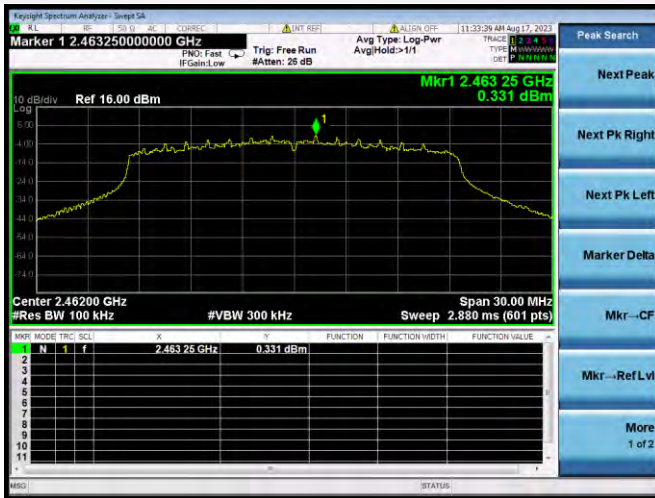
802.11ax-20 MHz(SU) LOW CHANNEL, CARRIER LEVEL



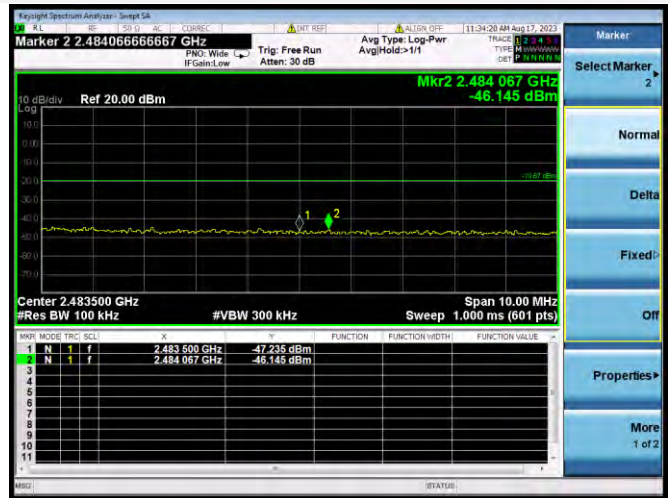
802.11ax-20 MHz(SU) LOW CHANNEL, BAND EDGE



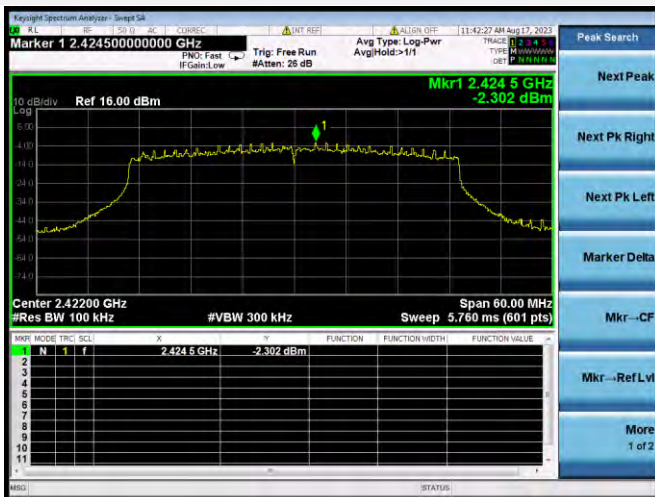
802.11ax-20 MHz(SU) HIGH CHANNEL, CARRIER LEVEL



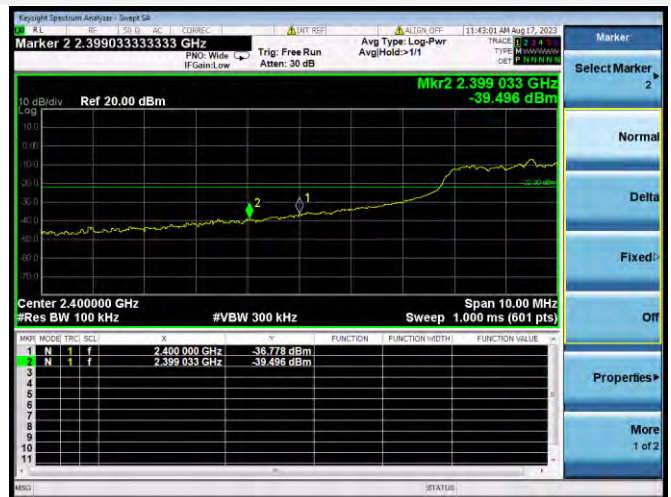
802.11ax-20 MHz(SU) HIGH CHANNEL, BAND EDGE



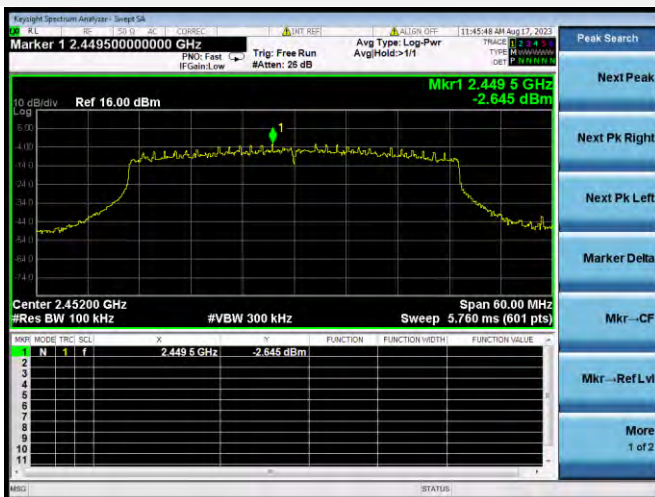
802.11ax-40 MHz(SU) LOW CHANNEL, CARRIER LEVEL



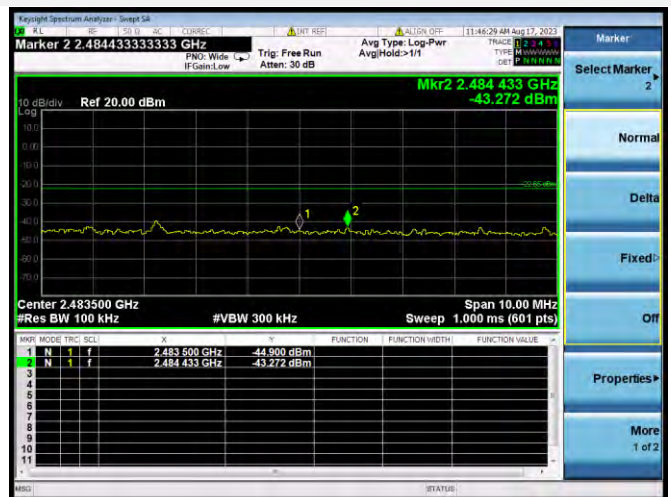
802.11ax-40 MHz(SU) LOW CHANNEL, BAND EDGE



802.11ax-40 MHz(SU) HIGH CHANNEL, CARRIER LEVEL

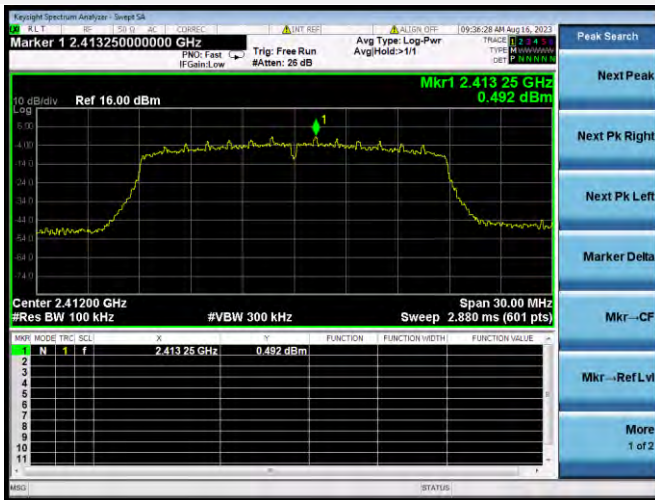


802.11ax-40 MHz(SU) HIGH CHANNEL, BAND EDGE

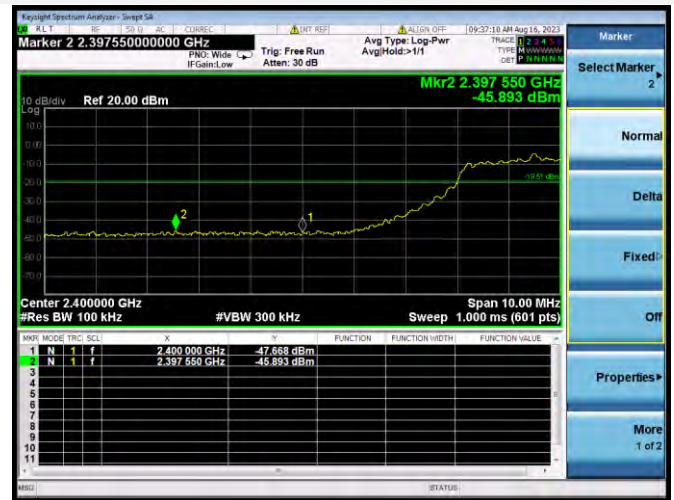


MIMO-Antenna 0

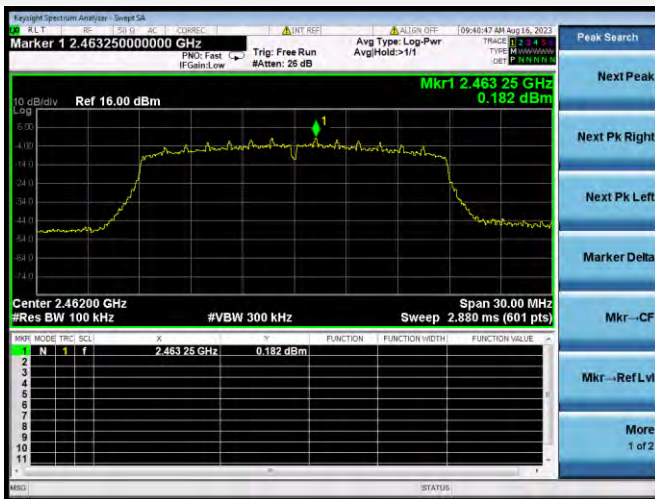
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



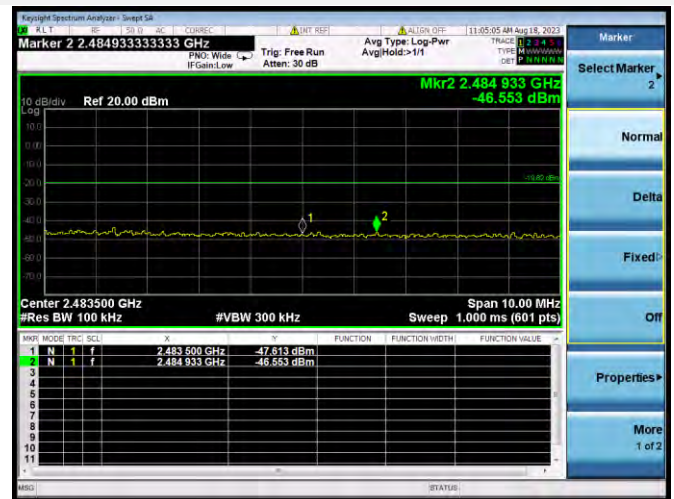
802.11n-20 MHz LOW CHANNEL, BAND EDGE



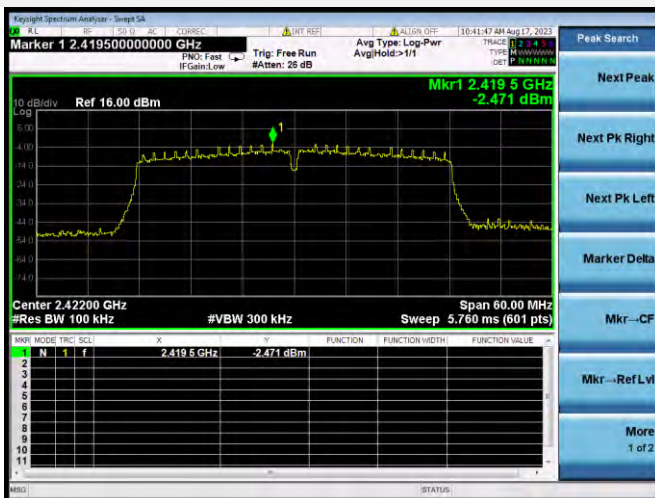
802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



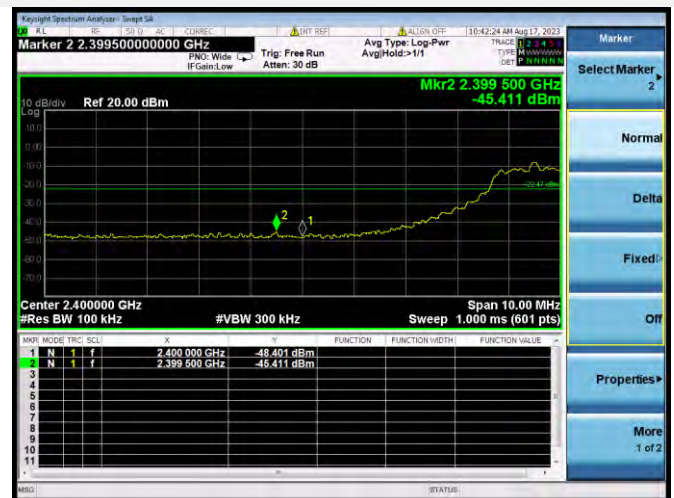
802.11n-20 MHz HIGH CHANNEL, BAND EDGE



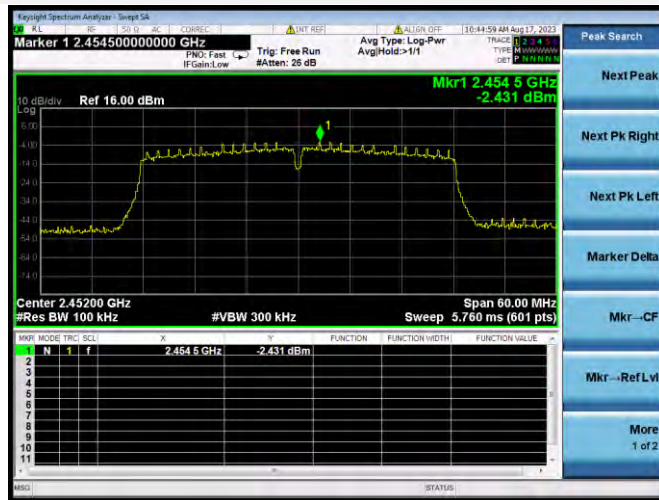
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



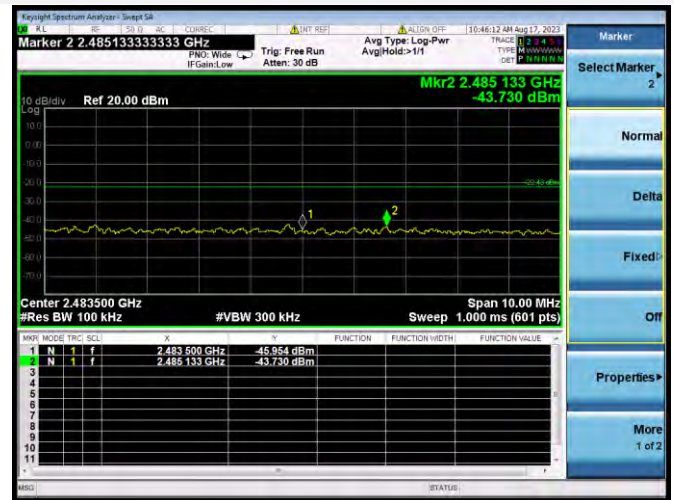
802.11n-40 MHz LOW CHANNEL, BAND EDGE



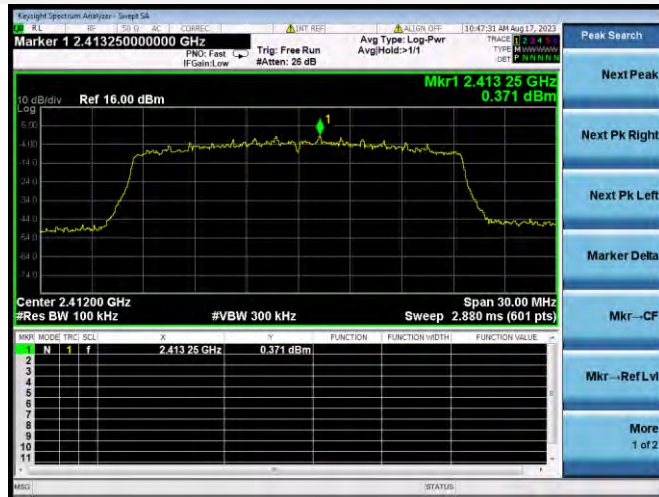
802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



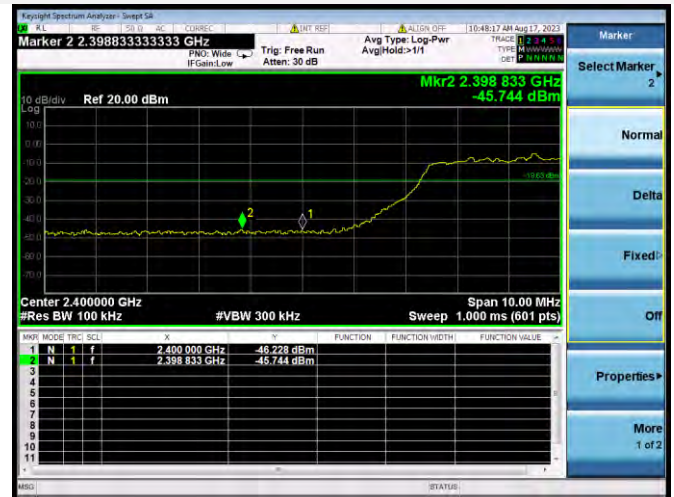
802.11n-40 MHz HIGH CHANNEL, BAND EDGE



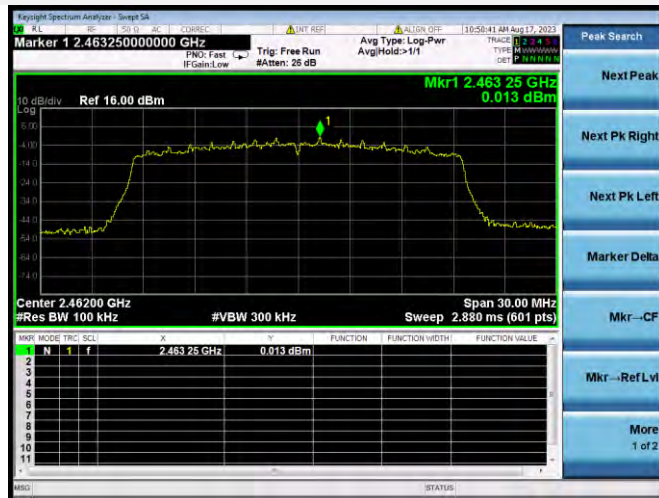
802.11ax-20 MHz(SU) LOW CHANNEL, CARRIER LEVEL



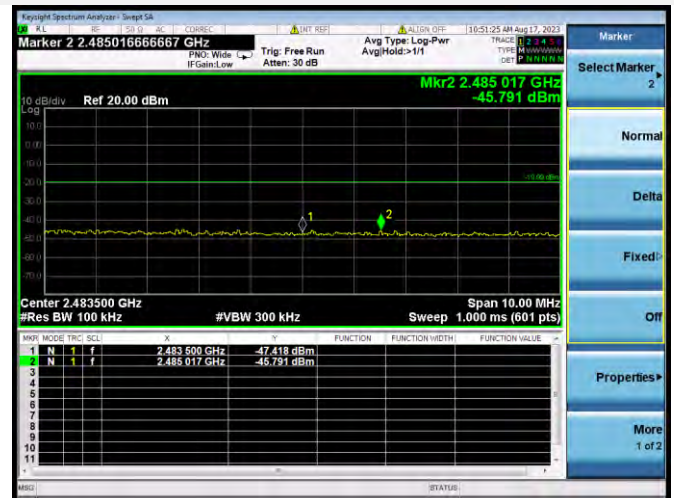
802.11ax-20 MHz(SU) LOW CHANNEL, BAND EDGE



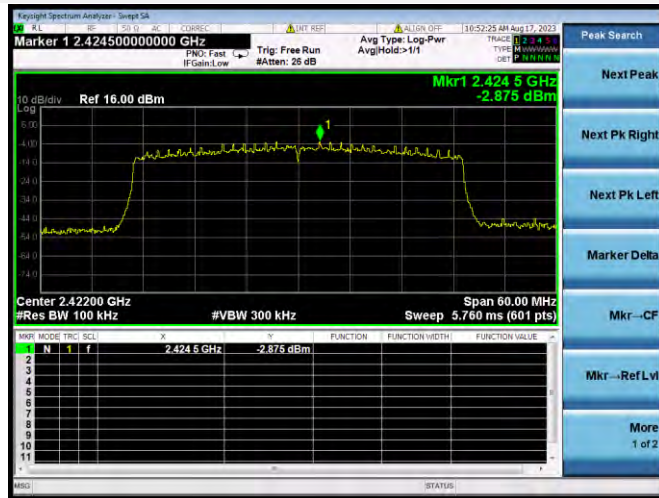
802.11ax-20 MHz(SU) HIGH CHANNEL, CARRIER LEVEL



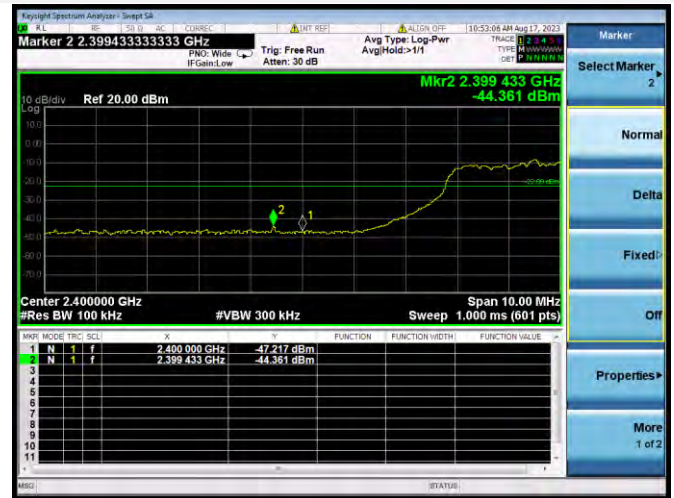
802.11ax-20 MHz(SU) HIGH CHANNEL, BAND EDGE



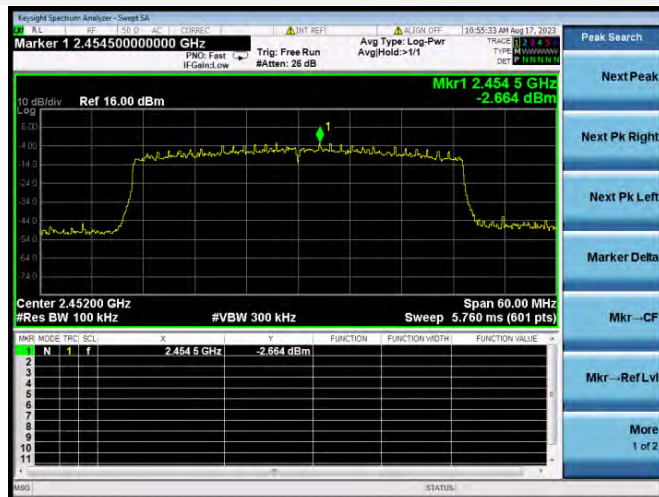
802.11ax-40 MHz(SU) LOW CHANNEL, CARRIER LEVEL



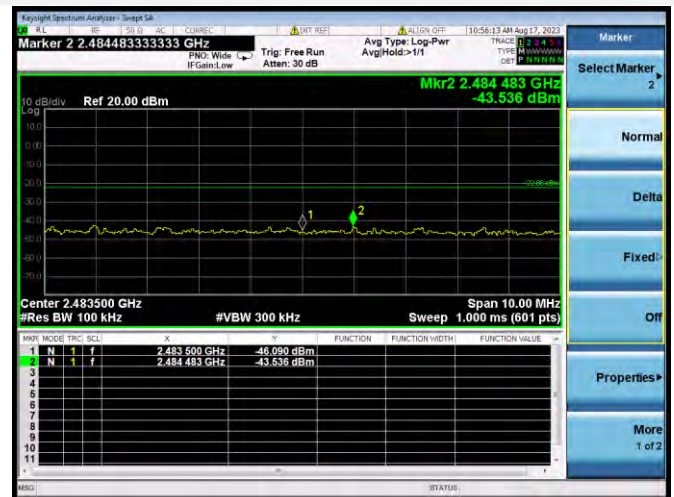
802.11ax-40 MHz(SU) LOW CHANNEL, BAND EDGE



802.11ax-40 MHz(SU) HIGH CHANNEL, CARRIER LEVEL

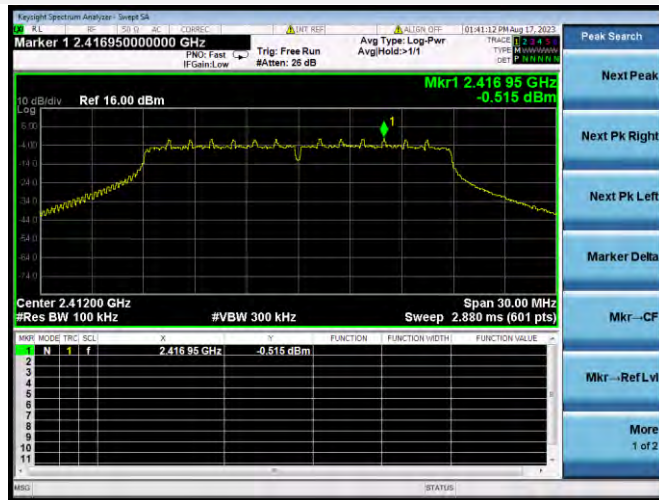


802.11ax-40 MHz(SU) HIGH CHANNEL, BAND EDGE



MIMO-Antenna 1

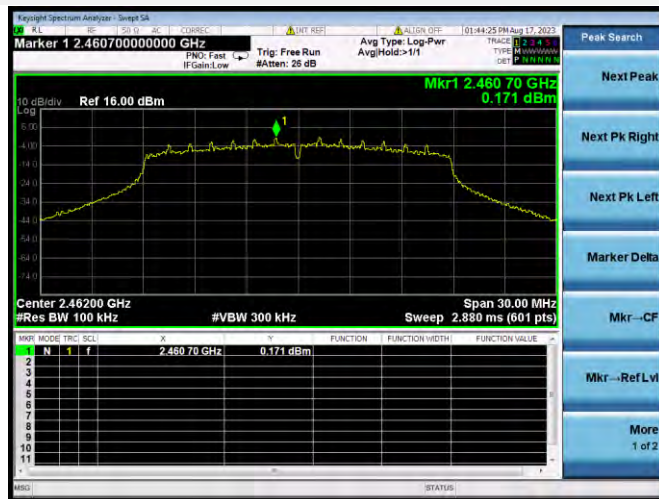
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



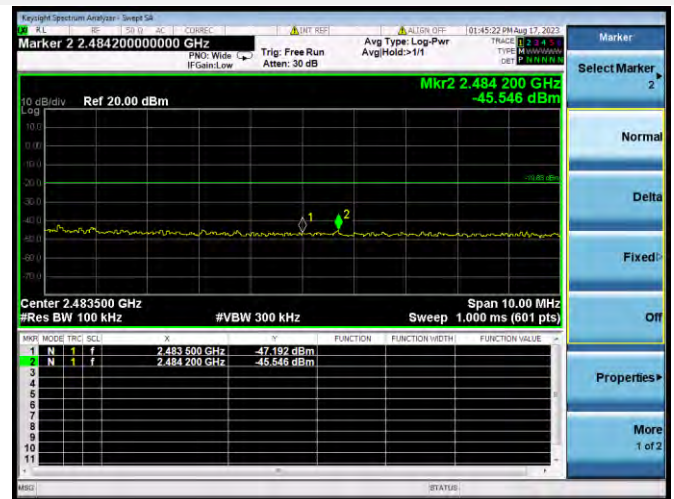
802.11n-20 MHz LOW CHANNEL, BAND EDGE



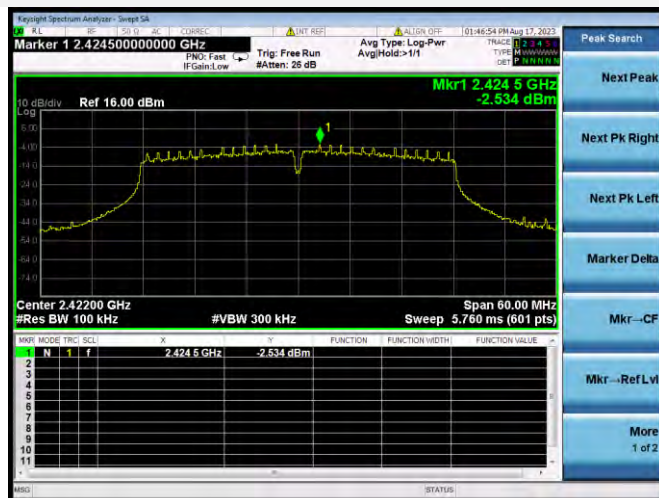
802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-20 MHz HIGH CHANNEL, BAND EDGE



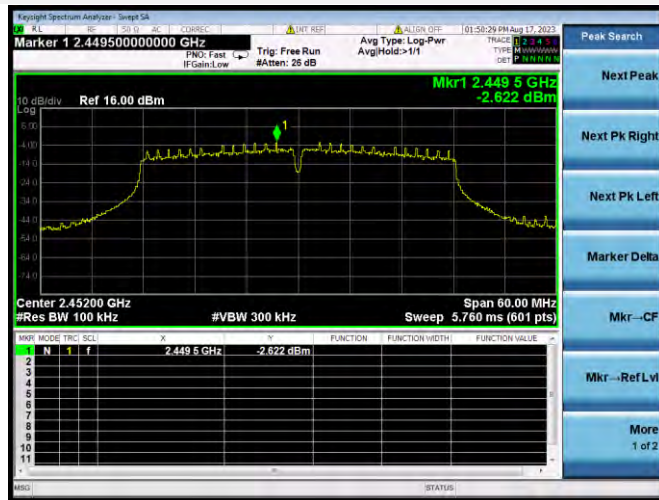
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



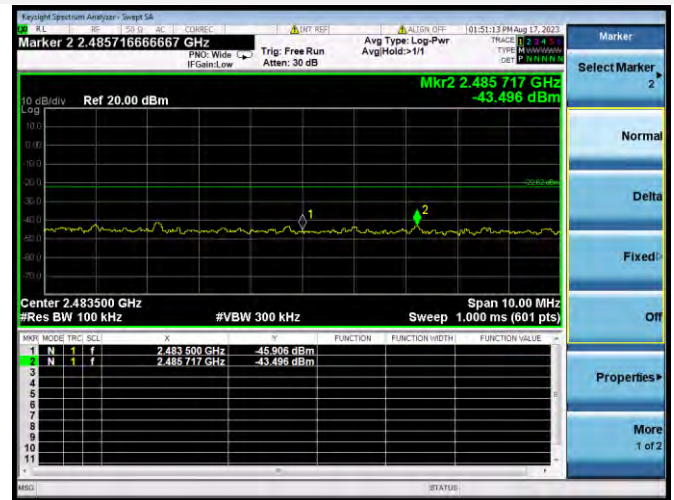
802.11n-40 MHz LOW CHANNEL, BAND EDGE



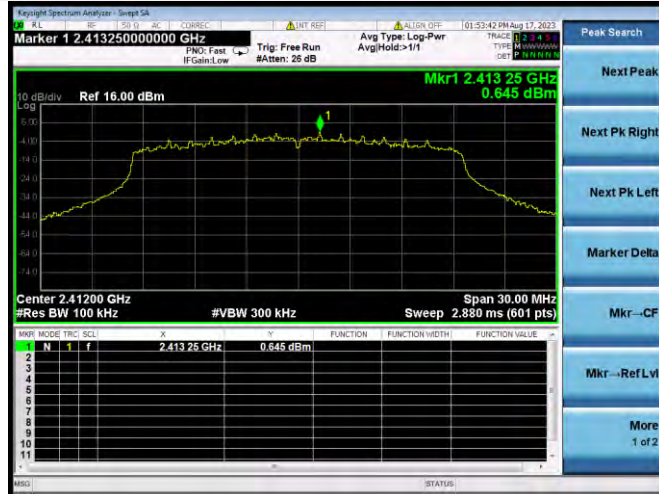
802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, BAND EDGE



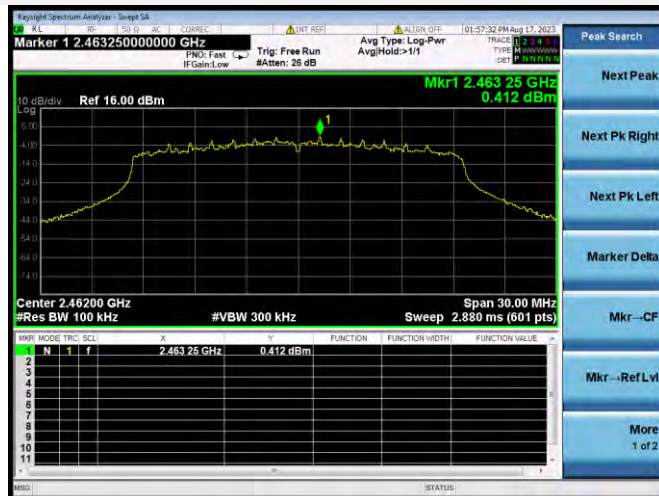
802.11ax-20 MHz(SU) LOW CHANNEL, CARRIER LEVEL



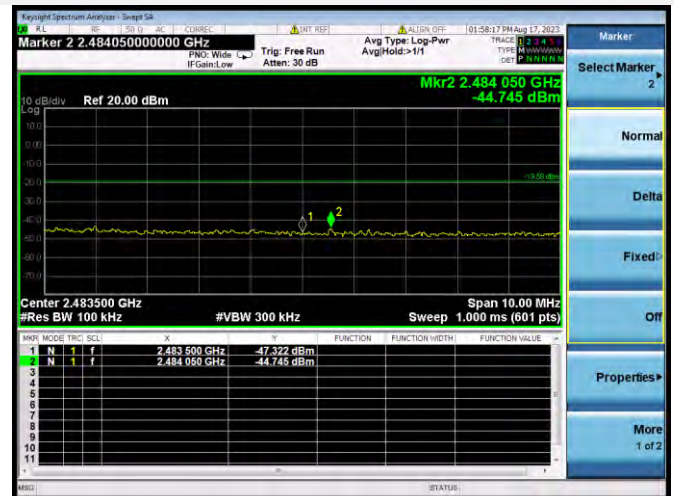
802.11ax-20 MHz(SU) LOW CHANNEL, BAND EDGE



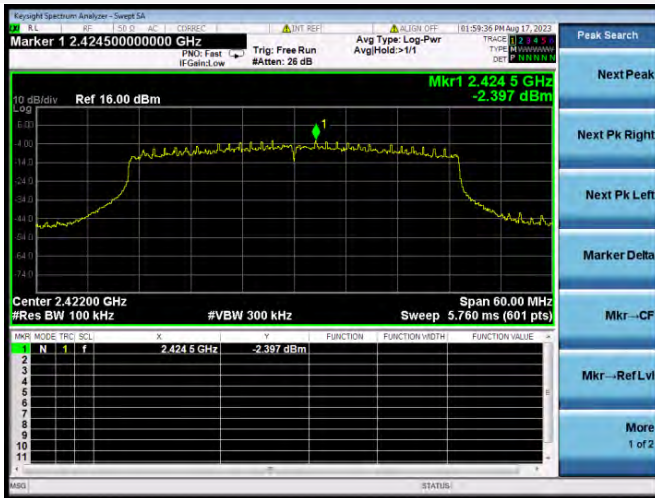
802.11ax-20 MHz(SU) HIGH CHANNEL, CARRIER LEVEL



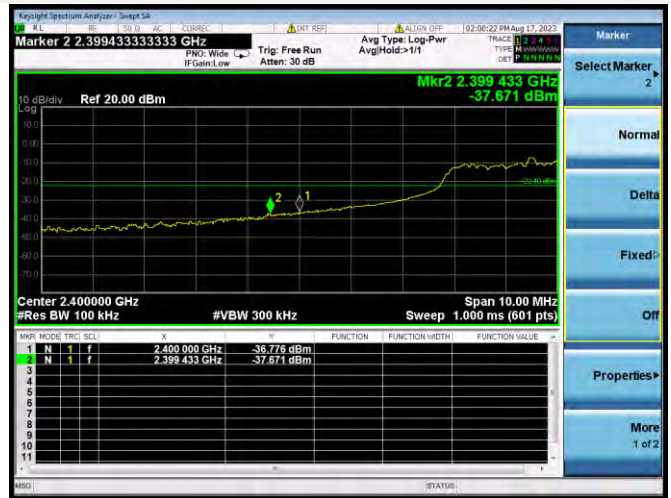
802.11ax-20 MHz(SU) HIGH CHANNEL, BAND EDGE



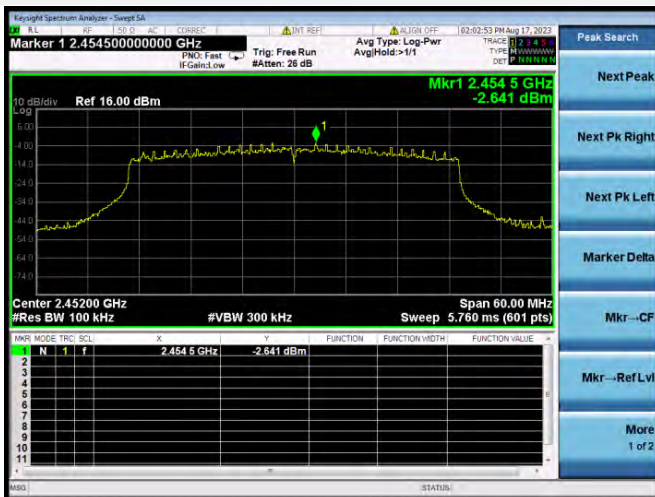
802.11ax-40 MHz(SU) LOW CHANNEL, CARRIER LEVEL



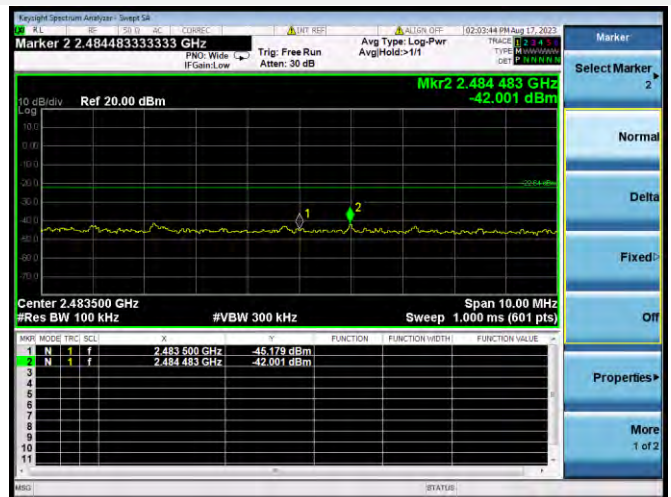
802.11ax-40 MHz(SU) LOW CHANNEL, BAND EDGE



802.11ax-40 MHz(SU) HIGH CHANNEL, CARRIER LEVEL



802.11ax-40 MHz(SU) HIGH CHANNEL, BAND EDGE



5.6 Conducted Emission

5.6.1 Limit

FCC §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.6.2 Test Setup

See section 4.5.2 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX A.

5.6.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

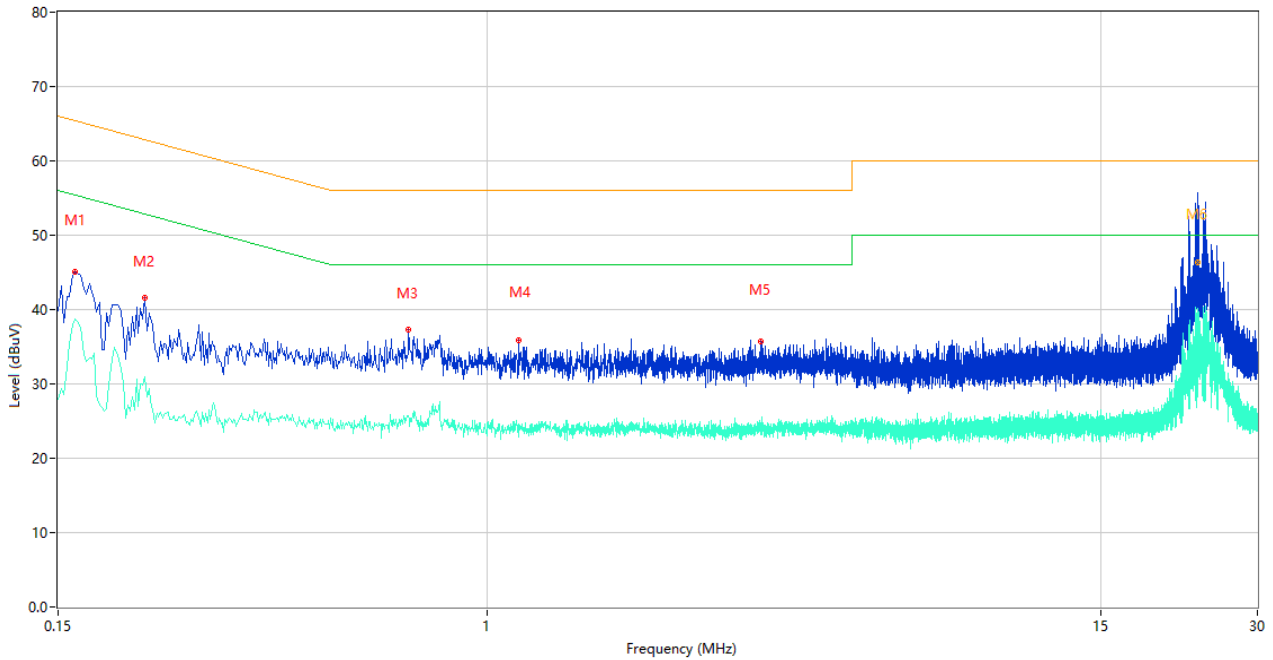
Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.6.4 Test Result

Note: The EUT is working in the Normal link mode.

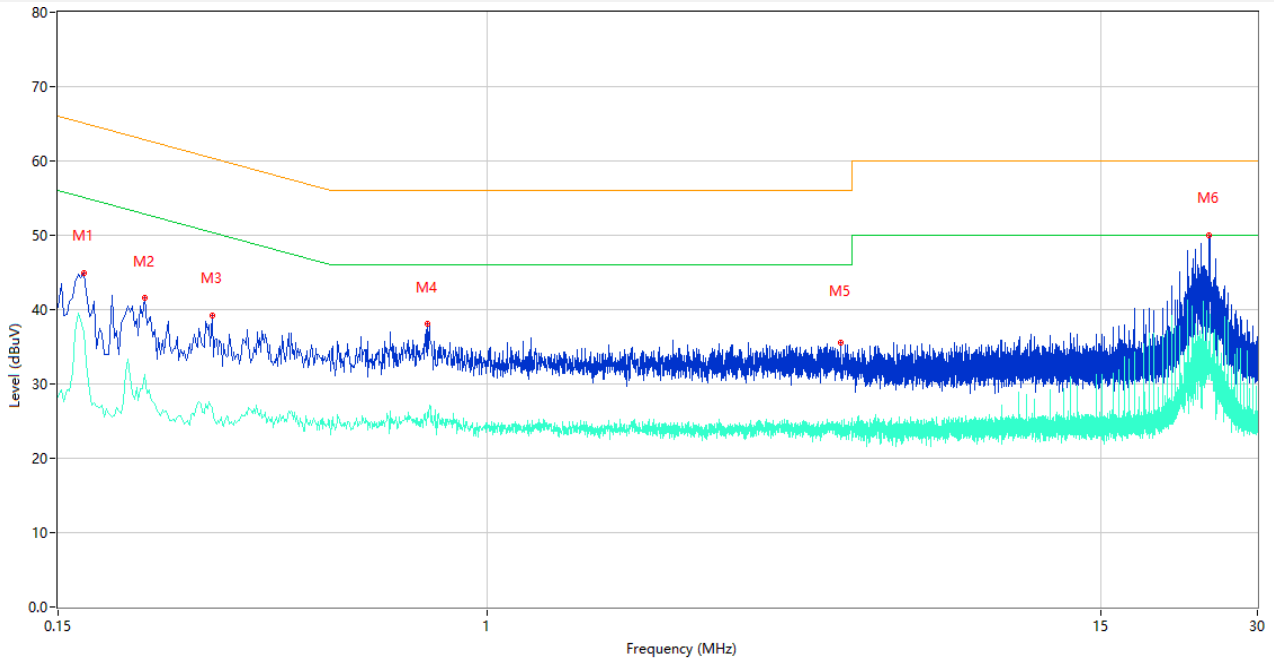
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.162	45.00	9.78	65.36	20.36	Peak	L	Pass
1**	0.162	38.72	9.78	55.36	16.64	AV	L	Pass
2	0.220	41.55	9.77	62.82	21.27	Peak	L	Pass
2**	0.220	30.94	9.77	52.82	21.88	AV	L	Pass
3	0.706	37.27	10.59	56.00	18.73	Peak	L	Pass
3**	0.706	25.65	10.59	46.00	20.35	AV	L	Pass
4	1.150	35.94	10.39	56.00	20.06	Peak	L	Pass
4**	1.150	24.52	10.39	46.00	21.48	AV	L	Pass
5	3.352	35.67	10.41	56.00	20.33	Peak	L	Pass
5**	3.352	24.39	10.41	46.00	21.61	AV	L	Pass
6	23.058	55.10	10.69	60.00	4.90	Peak	L	N/A
6*	23.058	46.40	10.69	60.00	13.60	QP	L	Pass
6**	23.058	38.03	10.69	50.00	11.97	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.168	44.94	9.78	65.06	20.12	Peak	N	Pass
1**	0.168	36.99	9.78	55.06	18.07	AV	N	Pass
2	0.220	41.58	9.77	62.82	21.24	Peak	N	Pass
2**	0.220	31.26	9.77	52.82	21.56	AV	N	Pass
3	0.296	39.28	9.76	60.35	21.07	Peak	N	Pass
3**	0.296	26.81	9.76	50.35	23.54	AV	N	Pass
4	0.766	38.02	10.29	56.00	17.98	Peak	N	Pass
4**	0.766	26.25	10.29	46.00	19.75	AV	N	Pass
5	4.756	35.51	10.02	56.00	20.49	Peak	N	Pass
5**	4.756	24.26	10.02	46.00	21.74	AV	N	Pass
6	24.278	50.06	10.89	60.00	9.94	Peak	N	Pass
6**	24.278	32.76	10.89	50.00	17.24	AV	N	Pass

5.7 Radiated Spurious Emission

5.7.1 Limit

FCC §15.209&15.247(d)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

- For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
- For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

5.7.2 Test Setup

See section 4.5.3 to 4.5.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX A.

5.7.3 Test Procedure

Since the emission limits are specified in terms of radiated field strength levels, measurements performed to demonstrate compliance have traditionally relied on a radiated test configuration. Radiated measurements remain the principal method for demonstrating compliance to the specified limits; however antenna-port conducted measurements are also now acceptable to demonstrate compliance (see below for details). When radiated measurements are utilized, test site requirements and procedures for maximizing and measuring radiated emissions that are described in ANSI C63.10 shall be followed.

Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

General Procedure for conducted measurements in restricted bands

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see guidance on determining the applicable antenna gain)
- c) Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
- e) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20\log D + 104.8$$

where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

- f) Compare the resultant electric field strength level to the applicable limit.
- g) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

The specifications for measurements using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Frequency Interference (CISPR) of the International Electrotechnical Commission.

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable emission limits using a peak detector.

Peak power measurement procedure

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 1.
- b) VBW $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be

longer for low duty cycle applications).

Table 1—RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Trace averaging across on and off times of the EUT transmissions followed by duty cycle correction

If continuous transmission of the EUT (i.e., duty cycle \geq 98 percent) cannot be achieved and the duty cycle is constant (i.e., duty cycle variations are less than \pm 2 percent), then the following procedure shall be used:

- a) The EUT shall be configured to operate at the maximum achievable duty cycle.
- b) Measure the duty cycle, x , of the transmitter output signal as described in section 6.0.
- c) RBW = 1 MHz (unless otherwise specified).
- d) VBW \geq 3 x RBW.
- e) Detector = RMS, if $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- f) Averaging type = power (i.e., RMS).
 - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- g) Sweep time = auto.
- h) Perform a trace average of at least 100 traces.
- i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:
 - 1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.
 - 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $20 \log(1/x)$, where x is the duty cycle.
 - 3) If a specific emission is demonstrated to be continuous (\geq 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

NOTE: Reduction of the measured emission amplitude levels to account for operational duty factor is not permitted. Compliance is based on emission levels occurring during transmission - not on an average across on and off times of the transmitter.

Determining the applicable transmit antenna gain

A conducted power measurement will determine the maximum output power associated with a restricted band emission; however, in order to determine the associated EIRP level, the gain of the transmitting antenna (in dBi) must be added to the measured output power (in dBm).

Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.

See KDB 662911 for guidance on calculating the additional array gain term when determining the effective antenna gain for a EUT with multiple outputs occupying the same or overlapping frequency ranges in the same band.

Radiated spurious emission test

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

The measurement frequency range is from 30 MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.7.4 Test Result

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

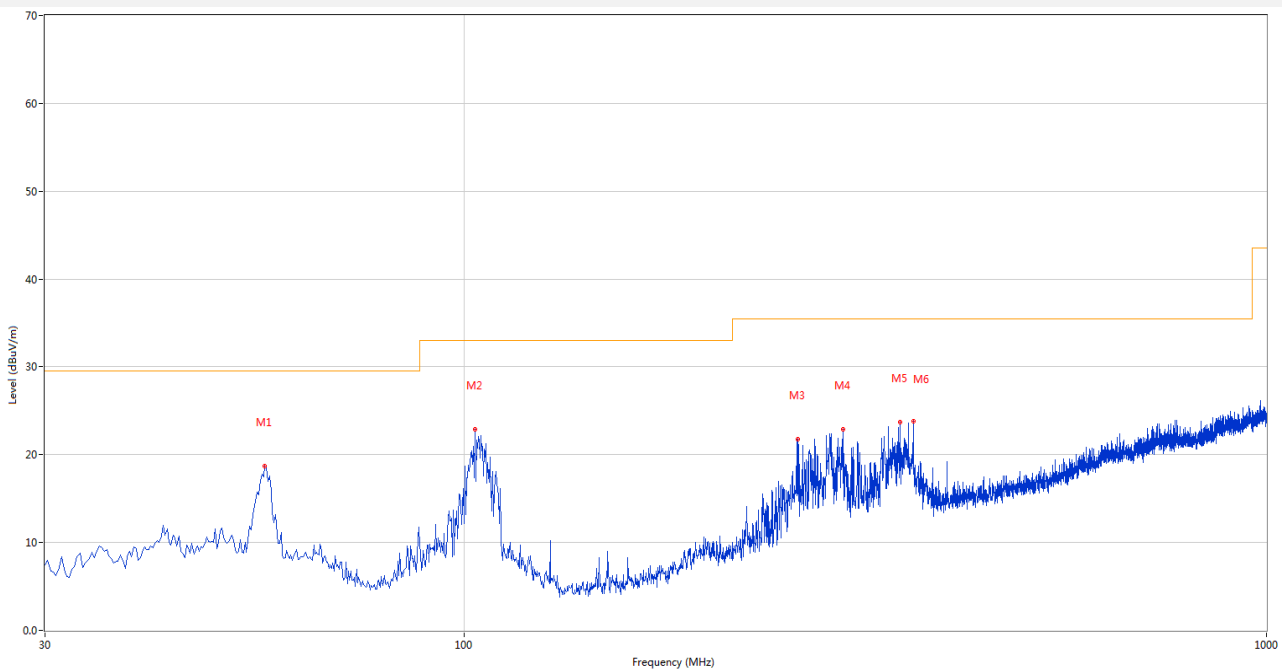
Note 2: For the test data above 1 GHz, According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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.

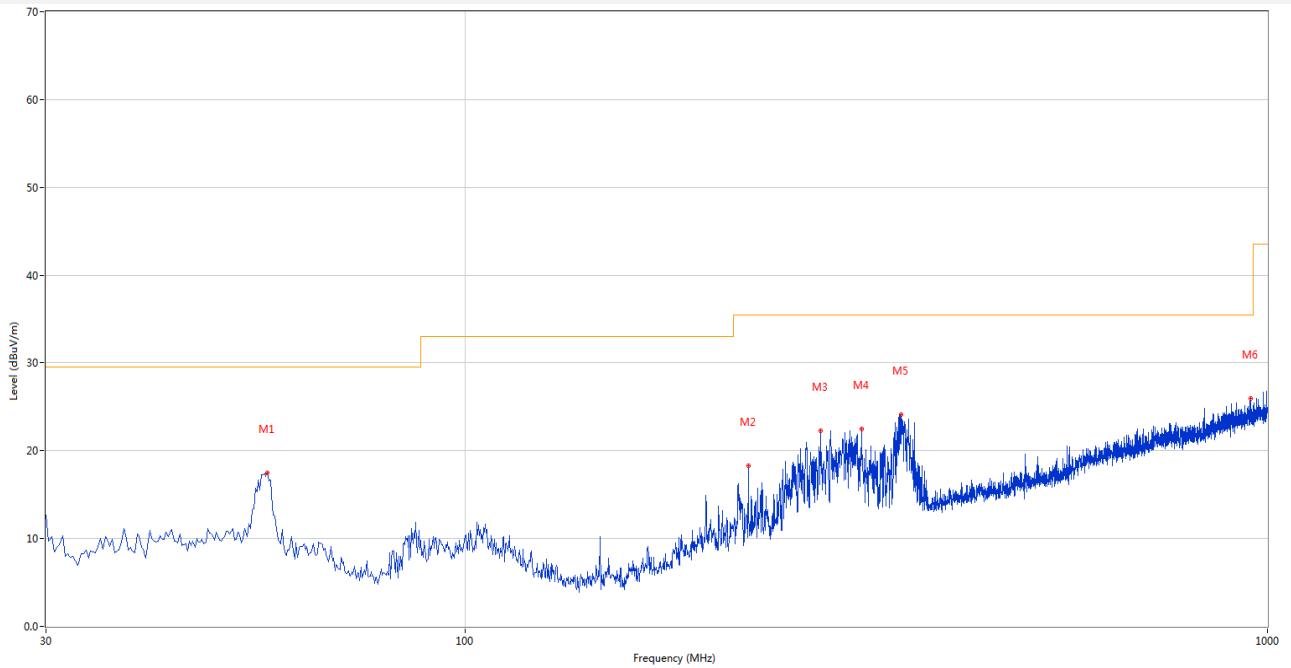
Test Data and Plots

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	56.426	18.67	-26.92	29.5	10.83	Peak	322.00	200	Horizontal	Pass
2	103.217	22.89	-27.91	33.0	10.11	Peak	62.00	200	Horizontal	Pass
3	260.317	21.76	-26.02	35.5	13.74	Peak	106.00	200	Horizontal	Pass
4	296.926	22.87	-25.24	35.5	12.63	Peak	106.00	200	Horizontal	Pass
5	349.535	23.69	-23.47	35.5	11.81	Peak	276.00	200	Horizontal	Pass
6	363.112	23.81	-23.44	35.5	11.69	Peak	106.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	56.668	17.48	-26.99	29.5	12.02	Peak	316.00	100	Vertical	Pass
2	225.406	18.29	-27.14	35.5	17.21	Peak	24.00	100	Vertical	Pass
3	277.046	22.31	-25.70	35.5	13.19	Peak	360.00	100	Vertical	Pass
4	311.715	22.43	-24.88	35.5	13.07	Peak	0.00	200	Vertical	Pass
5	349.535	24.17	-23.47	35.5	11.33	Peak	360.00	100	Vertical	Pass
6	953.452	25.99	-11.88	35.5	9.51	Peak	335.00	200	Vertical	Pass

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

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

Note 3: All the configurations were pre tested, only the worst configuration has been reported in this report.

Antenna 0

1 GHz to 18 GHz, ANT H 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	1437.000	42.79	-17.06	74.0	31.21	Peak	0.00	400	Horizontal	Pass
1**	1437.000	32.43	-17.06	54.0	21.57	AV	0.00	400	Horizontal	Pass
2	2410.600	106.88	-10.39	74.0	-32.88	Peak	308.00	200	Horizontal	N/A
2**	2410.600	103.92	-10.39	54.0	-49.92	AV	308.00	200	Horizontal	N/A
3	4824.250	52.02	-3.48	74.0	21.98	Peak	317.00	150	Horizontal	Pass
3**	4824.250	49.49	-3.48	54.0	4.51	AV	317.00	150	Horizontal	Pass
4	7738.750	53.06	0.29	74.0	20.94	Peak	200.00	400	Horizontal	Pass
4**	7738.750	43.97	0.29	54.0	10.03	AV	200.00	400	Horizontal	Pass
5	12536.250	52.34	1.23	74.0	21.66	Peak	167.00	200	Horizontal	Pass
5**	12536.250	43.13	1.23	54.0	10.87	AV	167.00	200	Horizontal	Pass
6	16828.199	55.27	2.65	74.0	18.73	Peak	207.00	200	Horizontal	Pass
6**	16828.199	44.49	2.65	54.0	9.51	AV	207.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 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	1165.900	48.00	-17.60	74.0	26.00	Peak	244.00	100	Vertical	Pass
1**	1165.900	38.50	-17.60	54.0	15.50	AV	244.00	100	Vertical	Pass
2	2410.800	98.68	-10.35	74.0	-24.68	Peak	235.00	200	Vertical	N/A
2**	2410.800	95.79	-10.35	54.0	-41.79	AV	235.00	200	Vertical	N/A
3	4824.000	48.10	-3.61	74.0	25.90	Peak	35.00	150	Vertical	Pass
3**	4824.000	44.50	-3.61	54.0	9.50	AV	35.00	150	Vertical	Pass
4	7760.750	53.21	1.53	74.0	20.79	Peak	276.00	400	Vertical	Pass
4**	7760.750	43.85	1.53	54.0	10.15	AV	276.00	400	Vertical	Pass
5	11786.937	52.80	-0.16	74.0	21.20	Peak	245.00	200	Vertical	Pass
5**	11786.937	44.28	-0.16	54.0	9.72	AV	245.00	200	Vertical	Pass
6	17483.137	54.60	4.95	74.0	19.40	Peak	235.00	200	Vertical	Pass
6**	17483.137	45.40	4.95	54.0	8.60	AV	235.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1442.600	41.90	-16.90	74.0	32.10	Peak	345.00	300	Horizontal	Pass
1**	1442.600	32.26	-16.90	54.0	21.74	AV	345.00	300	Horizontal	Pass
2	2438.400	106.89	-9.92	74.0	-32.89	Peak	298.00	150	Horizontal	N/A
2**	2438.400	103.85	-9.92	54.0	-49.85	AV	298.00	150	Horizontal	N/A
3	4874.500	50.14	-3.42	74.0	23.86	Peak	287.00	150	Horizontal	Pass
3**	4874.500	48.38	-3.42	54.0	5.62	AV	287.00	150	Horizontal	Pass
4	7365.750	53.59	0.97	74.0	20.41	Peak	360.00	200	Horizontal	Pass
4**	7365.750	43.95	0.97	54.0	10.05	AV	360.00	200	Horizontal	Pass
5	11778.862	52.80	-0.17	74.0	21.20	Peak	41.00	200	Horizontal	Pass
5**	11778.862	43.23	-0.17	54.0	10.77	AV	41.00	200	Horizontal	Pass
6	17462.137	54.80	5.34	74.0	19.20	Peak	169.00	400	Horizontal	Pass
6**	17462.137	45.93	5.34	54.0	8.07	AV	169.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1165.500	48.02	-17.48	74.0	25.98	Peak	259.00	200	Vertical	Pass
1**	1165.500	37.99	-17.48	54.0	16.01	AV	259.00	200	Vertical	Pass
2	2435.500	97.48	-10.16	74.0	-23.48	Peak	232.00	150	Vertical	N/A
2**	2435.500	94.62	-10.16	54.0	-40.62	AV	232.00	150	Vertical	N/A
3	4874.500	48.48	-3.42	74.0	25.52	Peak	216.00	150	Vertical	Pass
3**	4874.500	43.25	-3.42	54.0	10.75	AV	216.00	150	Vertical	Pass
4	7767.000	54.09	1.17	74.0	19.91	Peak	306.00	300	Vertical	Pass
4**	7767.000	43.69	1.17	54.0	10.31	AV	306.00	300	Vertical	Pass
5	12340.312	53.12	0.79	74.0	20.88	Peak	229.00	100	Vertical	Pass
5**	12340.312	42.65	0.79	54.0	11.35	AV	229.00	100	Vertical	Pass
6	16414.500	55.41	2.97	74.0	18.59	Peak	121.00	400	Vertical	Pass
6**	16414.500	45.99	2.97	54.0	8.01	AV	121.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 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	1582.600	41.95	-16.91	74.0	32.05	Peak	239.00	100	Horizontal	Pass
1**	1582.600	32.09	-16.91	54.0	21.91	AV	239.00	100	Horizontal	Pass
2	2460.500	106.07	-11.29	74.0	-32.07	Peak	298.00	100	Horizontal	N/A
2**	2460.500	103.18	-11.29	54.0	-49.18	AV	298.00	100	Horizontal	N/A
3	4924.250	51.08	-3.53	74.0	22.92	Peak	289.00	150	Horizontal	Pass
3**	4924.250	47.69	-3.53	54.0	6.31	AV	289.00	150	Horizontal	Pass
4	7754.000	53.45	1.14	74.0	20.55	Peak	360.00	300	Horizontal	Pass
4**	7754.000	44.69	1.14	54.0	9.31	AV	360.00	300	Horizontal	Pass
5	12373.562	53.46	0.97	74.0	20.54	Peak	39.00	200	Horizontal	Pass
5**	12373.562	42.66	0.97	54.0	11.34	AV	39.00	200	Horizontal	Pass
6	17479.199	55.03	5.03	74.0	18.97	Peak	360.00	200	Horizontal	Pass
6**	17479.199	46.28	5.03	54.0	7.72	AV	360.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 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	1164.100	48.31	-17.61	74.0	25.69	Peak	273.00	100	Vertical	Pass
1**	1164.100	36.33	-17.61	54.0	17.67	AV	273.00	100	Vertical	Pass
2	2463.700	97.29	-11.23	74.0	-23.29	Peak	179.00	100	Vertical	N/A
2**	2463.700	94.55	-11.23	54.0	-40.55	AV	179.00	100	Vertical	N/A
3	4949.250	48.91	-3.57	74.0	25.09	Peak	141.00	100	Vertical	Pass
3**	4949.250	40.16	-3.57	54.0	13.84	AV	141.00	100	Vertical	Pass
4	7371.500	53.74	0.83	74.0	20.26	Peak	296.00	300	Vertical	Pass
4**	7371.500	44.98	0.83	54.0	9.02	AV	296.00	300	Vertical	Pass
5	11785.987	52.96	-0.16	74.0	21.04	Peak	121.00	400	Vertical	Pass
5**	11785.987	43.97	-0.16	54.0	10.03	AV	121.00	400	Vertical	Pass
6	16848.151	54.94	3.49	74.0	19.06	Peak	271.00	100	Vertical	Pass
6**	16848.151	45.46	3.49	54.0	8.54	AV	271.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 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	1438.400	43.24	-17.08	74.0	30.76	Peak	85.00	100	Horizontal	Pass
1**	1438.400	32.34	-17.08	54.0	21.66	AV	85.00	100	Horizontal	Pass
2	2417.400	106.40	-10.20	74.0	-32.40	Peak	85.00	150	Horizontal	N/A
2**	2417.400	99.31	-10.20	54.0	-45.31	AV	85.00	150	Horizontal	N/A
3	4824.750	48.27	-3.68	74.0	25.73	Peak	302.00	150	Horizontal	Pass
3**	4824.750	43.59	-3.68	54.0	10.41	AV	302.00	150	Horizontal	Pass
4	7769.250	53.83	1.49	74.0	20.17	Peak	23.00	200	Horizontal	Pass
4**	7769.250	44.49	1.49	54.0	9.51	AV	23.00	200	Horizontal	Pass
5	12406.338	52.62	1.10	74.0	21.38	Peak	349.00	400	Horizontal	Pass
5**	12406.338	42.84	1.10	54.0	11.16	AV	349.00	400	Horizontal	Pass
6	16390.613	54.70	2.81	74.0	19.30	Peak	4.00	400	Horizontal	Pass
6**	16390.613	44.64	2.81	54.0	9.36	AV	4.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 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	1329.800	46.88	-16.84	74.0	27.12	Peak	172.00	200	Vertical	Pass
1**	1329.800	37.69	-16.84	54.0	16.31	AV	172.00	200	Vertical	Pass
2	2405.800	97.45	-10.45	74.0	-23.45	Peak	192.00	200	Vertical	N/A
2**	2405.800	90.24	-10.45	54.0	-36.24	AV	192.00	200	Vertical	N/A
3	4980.500	49.00	-3.34	74.0	25.00	Peak	161.00	100	Vertical	Pass
3**	4980.500	40.22	-3.34	54.0	13.78	AV	161.00	100	Vertical	Pass
4	7798.750	53.46	0.69	74.0	20.54	Peak	116.00	400	Vertical	Pass
4**	7798.750	44.61	0.69	54.0	9.39	AV	116.00	400	Vertical	Pass
5	11777.438	52.60	-0.17	74.0	21.40	Peak	235.00	200	Vertical	Pass
5**	11777.438	43.39	-0.17	54.0	10.61	AV	235.00	200	Vertical	Pass
6	16179.299	55.10	1.95	74.0	18.90	Peak	199.00	400	Vertical	Pass
6**	16179.299	46.10	1.95	54.0	7.90	AV	199.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.100	43.64	-17.04	74.0	30.36	Peak	183.00	100	Horizontal	Pass
1**	1332.100	33.94	-17.04	54.0	20.06	AV	183.00	100	Horizontal	Pass
2	2438.200	101.31	-10.12	74.0	-27.31	Peak	303.00	200	Horizontal	N/A
2**	2438.200	93.77	-10.12	54.0	-39.77	AV	303.00	200	Horizontal	N/A
3	4939.750	49.09	-3.75	74.0	24.91	Peak	129.00	200	Horizontal	Pass
3**	4939.750	39.76	-3.75	54.0	14.24	AV	129.00	200	Horizontal	Pass
4	7359.000	53.57	0.93	74.0	20.43	Peak	344.00	200	Horizontal	Pass
4**	7359.000	44.11	0.93	54.0	9.89	AV	344.00	200	Horizontal	Pass
5	12537.437	53.08	1.22	74.0	20.92	Peak	308.00	200	Horizontal	Pass
5**	12537.437	42.81	1.22	54.0	11.19	AV	308.00	200	Horizontal	Pass
6	17461.875	55.36	5.35	74.0	18.64	Peak	70.00	100	Horizontal	Pass
6**	17461.875	45.77	5.35	54.0	8.23	AV	70.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.800	47.35	-17.15	74.0	26.65	Peak	265.00	100	Vertical	Pass
1**	1332.800	34.74	-17.15	54.0	19.26	AV	265.00	100	Vertical	Pass
2	2438.200	91.84	-10.12	74.0	-17.84	Peak	294.00	100	Vertical	N/A
2**	2438.200	84.99	-10.12	54.0	-30.99	AV	294.00	100	Vertical	N/A
3	4870.500	49.04	-3.45	74.0	24.96	Peak	97.00	150	Vertical	Pass
3**	4870.500	39.37	-3.45	54.0	14.63	AV	97.00	150	Vertical	Pass
4	7840.750	53.63	1.42	74.0	20.37	Peak	253.00	100	Vertical	Pass
4**	7840.750	44.24	1.42	54.0	9.76	AV	253.00	100	Vertical	Pass
5	12415.838	52.59	1.09	74.0	21.41	Peak	138.00	100	Vertical	Pass
5**	12415.838	43.07	1.09	54.0	10.93	AV	138.00	100	Vertical	Pass
6	16422.113	55.35	2.87	74.0	18.65	Peak	272.00	100	Vertical	Pass
6**	16422.113	45.55	2.87	54.0	8.45	AV	272.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 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	1599.900	42.38	-16.70	74.0	31.62	Peak	0.00	400	Horizontal	Pass
1**	1599.900	33.28	-16.70	54.0	20.72	AV	0.00	400	Horizontal	Pass
2	2460.600	101.55	-11.30	74.0	-27.55	Peak	296.00	200	Horizontal	N/A
2**	2460.600	94.31	-11.30	54.0	-40.31	AV	296.00	200	Horizontal	N/A
3	4988.750	48.79	-2.94	74.0	25.21	Peak	153.00	200	Horizontal	Pass
3**	4988.750	40.61	-2.94	54.0	13.39	AV	153.00	200	Horizontal	Pass
4	7830.250	53.87	0.68	74.0	20.13	Peak	344.00	200	Horizontal	Pass
4**	7830.250	43.87	0.68	54.0	10.13	AV	344.00	200	Horizontal	Pass
5	12273.338	52.23	0.85	74.0	21.77	Peak	243.00	200	Horizontal	Pass
5**	12273.338	43.50	0.85	54.0	10.50	AV	243.00	200	Horizontal	Pass
6	17468.436	55.09	5.23	74.0	18.91	Peak	0.00	200	Horizontal	Pass
6**	17468.436	45.97	5.23	54.0	8.03	AV	0.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 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	1165.400	47.18	-17.49	74.0	26.82	Peak	281.00	100	Vertical	Pass
1**	1165.400	33.39	-17.49	54.0	20.61	AV	281.00	100	Vertical	Pass
2	2460.900	93.25	-11.30	74.0	-19.25	Peak	181.00	200	Vertical	N/A
2**	2460.900	85.78	-11.30	54.0	-31.78	AV	181.00	200	Vertical	N/A
3	4959.250	49.46	-3.56	74.0	24.54	Peak	249.00	100	Vertical	Pass
3**	4959.250	39.73	-3.56	54.0	14.27	AV	249.00	100	Vertical	Pass
4	7752.750	53.74	0.77	74.0	20.26	Peak	249.00	100	Vertical	Pass
4**	7752.750	44.83	0.77	54.0	9.17	AV	249.00	100	Vertical	Pass
5	12404.675	52.21	1.10	74.0	21.79	Peak	221.00	300	Vertical	Pass
5**	12404.675	43.04	1.10	54.0	10.96	AV	221.00	300	Vertical	Pass
6	16426.051	56.31	2.82	74.0	17.69	Peak	0.00	100	Vertical	Pass
6**	16426.051	45.85	2.82	54.0	8.15	AV	0.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 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	1438.200	43.48	-17.18	74.0	30.52	Peak	142.00	100	Horizontal	Pass
1**	1438.200	32.38	-17.18	54.0	21.62	AV	142.00	100	Horizontal	Pass
2	2410.700	99.37	-10.37	74.0	-25.37	Peak	301.00	150	Horizontal	N/A
2**	2410.700	90.98	-10.37	54.0	-36.98	AV	301.00	150	Horizontal	N/A
3	4947.500	49.32	-3.43	74.0	24.68	Peak	107.00	100	Horizontal	Pass
3**	4947.500	40.55	-3.43	54.0	13.45	AV	107.00	100	Horizontal	Pass
4	7760.250	53.84	1.20	74.0	20.16	Peak	107.00	300	Horizontal	Pass
4**	7760.250	44.89	1.20	54.0	9.11	AV	107.00	300	Horizontal	Pass
5	12279.987	53.30	0.77	74.0	20.70	Peak	360.00	300	Horizontal	Pass
5**	12279.987	43.56	0.77	54.0	10.44	AV	360.00	300	Horizontal	Pass
6	16415.550	55.91	2.96	74.0	18.09	Peak	251.00	100	Horizontal	Pass
6**	16415.550	46.58	2.96	54.0	7.42	AV	251.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 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	1161.300	48.31	-17.41	74.0	25.69	Peak	254.00	400	Vertical	Pass
1**	1161.300	34.41	-17.41	54.0	19.59	AV	254.00	400	Vertical	Pass
2	2412.900	88.07	-10.17	74.0	-14.07	Peak	186.00	150	Vertical	N/A
2**	2412.900	80.66	-10.17	54.0	-26.66	AV	186.00	150	Vertical	N/A
3	4874.250	49.69	-3.45	74.0	24.31	Peak	39.00	100	Vertical	Pass
3**	4874.250	40.35	-3.45	54.0	13.65	AV	39.00	100	Vertical	Pass
4	7819.750	53.72	1.34	74.0	20.28	Peak	297.00	100	Vertical	Pass
4**	7819.750	44.13	1.34	54.0	9.87	AV	297.00	100	Vertical	Pass
5	12529.362	52.79	1.27	74.0	21.21	Peak	43.00	100	Vertical	Pass
5**	12529.362	43.59	1.27	54.0	10.41	AV	43.00	100	Vertical	Pass
6	16431.037	54.81	2.75	74.0	19.19	Peak	212.00	400	Vertical	Pass
6**	16431.037	45.79	2.75	54.0	8.21	AV	212.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1366.200	42.83	-16.73	74.0	31.17	Peak	90.00	100	Horizontal	Pass
1**	1366.200	33.20	-16.73	54.0	20.80	AV	90.00	100	Horizontal	Pass
2	2438.400	99.60	-9.92	74.0	-25.60	Peak	298.00	100	Horizontal	N/A
2**	2438.400	92.49	-9.92	54.0	-38.49	AV	298.00	100	Horizontal	N/A
3	4986.500	49.66	-3.10	74.0	24.34	Peak	295.00	200	Horizontal	Pass
3**	4986.500	40.71	-3.10	54.0	13.29	AV	295.00	200	Horizontal	Pass
4	7739.500	54.62	0.14	74.0	19.38	Peak	0.00	300	Horizontal	Pass
4**	7739.500	44.12	0.14	54.0	9.88	AV	0.00	300	Horizontal	Pass
5	12275.951	52.63	0.82	74.0	21.37	Peak	215.00	200	Horizontal	Pass
5**	12275.951	43.03	0.82	54.0	10.97	AV	215.00	200	Horizontal	Pass
6	16412.136	54.92	3.00	74.0	19.08	Peak	360.00	200	Horizontal	Pass
6**	16412.136	45.91	3.00	54.0	8.09	AV	360.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.900	47.65	-16.94	74.0	26.35	Peak	244.00	100	Vertical	Pass
1**	1331.900	37.94	-16.94	54.0	16.06	AV	244.00	100	Vertical	Pass
2	2436.000	90.43	-10.16	74.0	-16.43	Peak	288.00	150	Vertical	N/A
2**	2436.000	82.96	-10.16	54.0	-28.96	AV	288.00	150	Vertical	N/A
3	4874.250	49.46	-3.45	74.0	24.54	Peak	143.00	150	Vertical	Pass
3**	4874.250	39.77	-3.45	54.0	14.23	AV	143.00	150	Vertical	Pass
4	7770.500	53.64	1.34	74.0	20.36	Peak	143.00	300	Vertical	Pass
4**	7770.500	44.13	1.34	54.0	9.87	AV	143.00	300	Vertical	Pass
5	12260.750	52.61	0.99	74.0	21.39	Peak	0.00	300	Vertical	Pass
5**	12260.750	42.53	0.99	54.0	11.47	AV	0.00	300	Vertical	Pass
6	16419.489	55.09	2.91	74.0	18.91	Peak	168.00	300	Vertical	Pass
6**	16419.489	45.56	2.91	54.0	8.44	AV	168.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 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	1333.500	42.73	-17.06	74.0	31.27	Peak	188.00	300	Horizontal	Pass
1**	1333.500	32.36	-17.06	54.0	21.64	AV	188.00	300	Horizontal	Pass
2	2460.700	99.98	-11.30	74.0	-25.98	Peak	300.00	150	Horizontal	N/A
2**	2460.700	91.54	-11.30	54.0	-37.54	AV	300.00	150	Horizontal	N/A
3	4901.500	49.80	-3.28	74.0	24.20	Peak	317.00	150	Horizontal	Pass
3**	4901.500	40.27	-3.28	54.0	13.73	AV	317.00	150	Horizontal	Pass
4	7783.500	53.77	0.90	74.0	20.23	Peak	173.00	100	Horizontal	Pass
4**	7783.500	45.14	0.90	54.0	8.86	AV	173.00	100	Horizontal	Pass
5	12446.000	52.41	1.04	74.0	21.59	Peak	281.00	100	Horizontal	Pass
5**	12446.000	42.64	1.04	54.0	11.36	AV	281.00	100	Horizontal	Pass
6	16408.724	54.90	3.05	74.0	19.10	Peak	303.00	200	Horizontal	Pass
6**	16408.724	46.38	3.05	54.0	7.62	AV	303.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 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	1166.500	48.36	-17.65	74.0	25.64	Peak	264.00	100	Vertical	Pass
1**	1166.500	34.59	-17.65	54.0	19.41	AV	264.00	100	Vertical	Pass
2	2459.800	91.24	-11.41	74.0	-17.24	Peak	284.00	150	Vertical	N/A
2**	2459.800	83.11	-11.41	54.0	-29.11	AV	284.00	150	Vertical	N/A
3	4951.750	49.06	-3.65	74.0	24.94	Peak	222.00	200	Vertical	Pass
3**	4951.750	39.76	-3.65	54.0	14.24	AV	222.00	200	Vertical	Pass
4	7833.500	53.77	0.96	74.0	20.23	Peak	295.00	400	Vertical	Pass
4**	7833.500	44.77	0.96	54.0	9.23	AV	295.00	400	Vertical	Pass
5	12436.263	52.79	1.06	74.0	21.21	Peak	305.00	300	Vertical	Pass
5**	12436.263	42.80	1.06	54.0	11.20	AV	305.00	300	Vertical	Pass
6	16408.199	54.84	3.06	74.0	19.16	Peak	166.00	300	Vertical	Pass
6**	16408.199	46.52	3.06	54.0	7.48	AV	166.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 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	1437.100	42.30	-17.11	74.0	31.70	Peak	146.00	100	Horizontal	Pass
1**	1437.100	32.45	-17.11	54.0	21.55	AV	146.00	100	Horizontal	Pass
2	2420.600	96.66	-10.24	74.0	-22.66	Peak	307.00	100	Horizontal	N/A
2**	2420.600	89.49	-10.24	54.0	-35.49	AV	307.00	100	Horizontal	N/A
3	4960.250	49.43	-3.64	74.0	24.57	Peak	198.00	150	Horizontal	Pass
3**	4960.250	39.93	-3.64	54.0	14.07	AV	198.00	150	Horizontal	Pass
4	7487.000	53.71	1.36	74.0	20.29	Peak	198.00	100	Horizontal	Pass
4**	7487.000	44.02	1.36	54.0	9.98	AV	198.00	100	Horizontal	Pass
5	12408.713	52.94	1.09	74.0	21.06	Peak	191.00	100	Horizontal	Pass
5**	12408.713	42.93	1.09	54.0	11.07	AV	191.00	100	Horizontal	Pass
6	17472.375	54.80	5.15	74.0	19.20	Peak	140.00	400	Horizontal	Pass
6**	17472.375	45.60	5.15	54.0	8.40	AV	140.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 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	1165.700	47.85	-17.52	74.0	26.15	Peak	239.00	400	Vertical	Pass
1**	1165.700	36.54	-17.52	54.0	17.46	AV	239.00	400	Vertical	Pass
2	2423.800	87.91	-10.30	74.0	-13.91	Peak	177.00	200	Vertical	N/A
2**	2423.800	80.50	-10.30	54.0	-26.50	AV	177.00	200	Vertical	N/A
3	4961.500	49.90	-3.40	74.0	24.10	Peak	79.00	100	Vertical	Pass
3**	4961.500	40.89	-3.40	54.0	13.11	AV	79.00	100	Vertical	Pass
4	7762.500	53.27	1.50	74.0	20.73	Peak	8.00	300	Vertical	Pass
4**	7762.500	44.98	1.50	54.0	9.02	AV	8.00	300	Vertical	Pass
5	11791.925	53.13	-0.15	74.0	20.87	Peak	0.00	400	Vertical	Pass
5**	11791.925	43.94	-0.15	54.0	10.06	AV	0.00	400	Vertical	Pass
6	16437.074	54.89	2.67	74.0	19.11	Peak	237.00	400	Vertical	Pass
6**	16437.074	45.07	2.67	54.0	8.93	AV	237.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.100	42.75	-16.94	74.0	31.25	Peak	25.00	400	Horizontal	Pass
1**	1329.100	33.49	-16.94	54.0	20.51	AV	25.00	400	Horizontal	Pass
2	2438.600	97.05	-10.02	74.0	-23.05	Peak	296.00	200	Horizontal	N/A
2**	2438.600	88.88	-10.02	54.0	-34.88	AV	296.00	200	Horizontal	N/A
3	4872.250	50.01	-3.36	74.0	23.99	Peak	268.00	150	Horizontal	Pass
3**	4872.250	40.07	-3.36	54.0	13.93	AV	268.00	150	Horizontal	Pass
4	7720.000	53.99	1.00	74.0	20.01	Peak	195.00	100	Horizontal	Pass
4**	7720.000	43.79	1.00	54.0	10.21	AV	195.00	100	Horizontal	Pass
5	12267.638	52.88	0.91	74.0	21.12	Peak	0.00	400	Horizontal	Pass
5**	12267.638	43.27	0.91	54.0	10.73	AV	0.00	400	Horizontal	Pass
6	16418.437	55.20	2.92	74.0	18.80	Peak	78.00	400	Horizontal	Pass
6**	16418.437	45.96	2.92	54.0	8.04	AV	78.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1163.000	48.40	-17.66	74.0	25.60	Peak	256.00	400	Vertical	Pass
1**	1163.000	33.20	-17.66	54.0	20.80	AV	256.00	400	Vertical	Pass
2	2438.700	88.52	-10.11	74.0	-14.52	Peak	284.00	200	Vertical	N/A
2**	2438.700	80.20	-10.11	54.0	-26.20	AV	284.00	200	Vertical	N/A
3	4943.750	49.47	-3.70	74.0	24.53	Peak	134.00	100	Vertical	Pass
3**	4943.750	39.69	-3.70	54.0	14.31	AV	134.00	100	Vertical	Pass
4	7755.000	53.60	1.19	74.0	20.40	Peak	0.00	300	Vertical	Pass
4**	7755.000	44.93	1.19	54.0	9.07	AV	0.00	300	Vertical	Pass
5	12283.312	52.38	0.74	74.0	21.62	Peak	351.00	400	Vertical	Pass
5**	12283.312	43.06	0.74	54.0	10.94	AV	351.00	400	Vertical	Pass
6	16416.074	55.03	2.95	74.0	18.97	Peak	27.00	100	Vertical	Pass
6**	16416.074	45.65	2.95	54.0	8.35	AV	27.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 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	1472.400	42.29	-17.17	74.0	31.71	Peak	234.00	400	Horizontal	Pass
1**	1472.400	33.15	-17.17	54.0	20.85	AV	234.00	400	Horizontal	Pass
2	2453.600	97.67	-10.87	74.0	-23.67	Peak	293.00	200	Horizontal	N/A
2**	2453.600	89.78	-10.87	54.0	-35.78	AV	293.00	200	Horizontal	N/A
3	4818.500	49.34	-3.23	74.0	24.66	Peak	246.00	200	Horizontal	Pass
3**	4818.500	40.51	-3.23	54.0	13.49	AV	246.00	200	Horizontal	Pass
4	7754.500	53.84	1.18	74.0	20.16	Peak	360.00	200	Horizontal	Pass
4**	7754.500	45.06	1.18	54.0	8.94	AV	360.00	200	Horizontal	Pass
5	12277.613	52.90	0.80	74.0	21.10	Peak	360.00	100	Horizontal	Pass
5**	12277.613	43.34	0.80	54.0	10.66	AV	360.00	100	Horizontal	Pass
6	16411.613	54.87	3.01	74.0	19.13	Peak	176.00	300	Horizontal	Pass
6**	16411.613	46.09	3.01	54.0	7.91	AV	176.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 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	1164.900	47.90	-17.55	74.0	26.10	Peak	270.00	200	Vertical	Pass
1**	1164.900	37.64	-17.55	54.0	16.36	AV	270.00	200	Vertical	Pass
2	2456.700	89.82	-10.88	74.0	-15.82	Peak	290.00	100	Vertical	N/A
2**	2456.700	81.97	-10.88	54.0	-27.97	AV	290.00	100	Vertical	N/A
3	4970.750	49.37	-3.59	74.0	24.63	Peak	317.00	100	Vertical	Pass
3**	4970.750	40.03	-3.59	54.0	13.97	AV	317.00	100	Vertical	Pass
4	7851.250	53.47	1.28	74.0	20.53	Peak	222.00	400	Vertical	Pass
4**	7851.250	44.64	1.28	54.0	9.36	AV	222.00	400	Vertical	Pass
5	11788.125	53.11	-0.16	74.0	20.89	Peak	249.00	200	Vertical	Pass
5**	11788.125	44.66	-0.16	54.0	9.34	AV	249.00	200	Vertical	Pass
6	16410.037	53.73	3.03	74.0	20.27	Peak	339.00	200	Vertical	Pass
6**	16410.037	45.08	3.03	54.0	8.92	AV	339.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax20(SU) Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1373.100	42.10	-16.91	74.0	31.90	Peak	360.00	300	Horizontal	Pass
1**	1373.100	32.70	-16.91	54.0	21.30	AV	360.00	300	Horizontal	Pass
2	2413.100	101.67	-10.34	74.0	-27.67	Peak	312.00	200	Horizontal	N/A
2**	2413.100	91.97	-10.34	54.0	-37.97	AV	312.00	200	Horizontal	N/A
3	4949.750	48.72	-3.47	74.0	25.28	Peak	79.00	200	Horizontal	Pass
3**	4949.750	39.85	-3.47	54.0	14.15	AV	79.00	200	Horizontal	Pass
4	7925.250	53.69	1.44	74.0	20.31	Peak	295.00	100	Horizontal	Pass
4**	7925.250	43.36	1.44	54.0	10.64	AV	295.00	100	Horizontal	Pass
5	11787.412	52.80	-0.16	74.0	21.20	Peak	315.00	200	Horizontal	Pass
5**	11787.412	43.34	-0.16	54.0	10.66	AV	315.00	200	Horizontal	Pass
6	16412.401	54.89	3.00	74.0	19.11	Peak	261.00	400	Horizontal	Pass
6**	16412.401	46.53	3.00	54.0	7.47	AV	261.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V802.11ax20(SU) Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1163.500	47.74	-17.65	74.0	26.26	Peak	266.00	200	Vertical	Pass
1**	1163.500	40.09	-17.65	54.0	13.91	AV	266.00	200	Vertical	Pass
2	2412.700	92.75	-10.22	74.0	-18.75	Peak	181.00	200	Vertical	N/A
2**	2412.700	81.82	-10.22	54.0	-27.82	AV	181.00	200	Vertical	N/A
3	4977.750	49.06	-3.37	74.0	24.94	Peak	280.00	150	Vertical	Pass
3**	4977.750	40.23	-3.37	54.0	13.77	AV	280.00	150	Vertical	Pass
4	7621.250	53.52	0.20	74.0	20.48	Peak	91.00	300	Vertical	Pass
4**	7621.250	43.17	0.20	54.0	10.83	AV	91.00	300	Vertical	Pass
5	11790.737	52.37	-0.15	74.0	21.63	Peak	221.00	400	Vertical	Pass
5**	11790.737	44.04	-0.15	54.0	9.96	AV	221.00	400	Vertical	Pass
6	16840.012	54.67	3.15	74.0	19.33	Peak	201.00	300	Vertical	Pass
6**	16840.012	45.31	3.15	54.0	8.69	AV	201.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax20(SU) Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1327.900	42.99	-16.95	74.0	31.01	Peak	23.00	100	Horizontal	Pass
1**	1327.900	32.79	-16.95	54.0	21.21	AV	23.00	100	Horizontal	Pass
2	2438.200	101.95	-10.12	74.0	-27.95	Peak	81.00	100	Horizontal	N/A
2**	2438.200	92.55	-10.12	54.0	-38.55	AV	81.00	100	Horizontal	N/A
3	4980.500	49.14	-3.34	74.0	24.86	Peak	268.00	150	Horizontal	Pass
3**	4980.500	40.94	-3.34	54.0	13.06	AV	268.00	150	Horizontal	Pass
4	7768.500	53.84	1.44	74.0	20.16	Peak	360.00	100	Horizontal	Pass
4**	7768.500	44.42	1.44	54.0	9.58	AV	360.00	100	Horizontal	Pass
5	12526.750	52.21	1.28	74.0	21.79	Peak	291.00	100	Horizontal	Pass
5**	12526.750	42.69	1.28	54.0	11.31	AV	291.00	100	Horizontal	Pass
6	16415.813	54.80	2.96	74.0	19.20	Peak	360.00	200	Horizontal	Pass
6**	16415.813	46.56	2.96	54.0	7.44	AV	360.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax20(SU) Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1164.500	48.01	-17.63	74.0	25.99	Peak	283.00	100	Vertical	Pass
1**	1164.500	41.27	-17.63	54.0	12.73	AV	283.00	100	Vertical	Pass
2	2437.700	93.47	-10.23	74.0	-19.47	Peak	293.00	100	Vertical	N/A
2**	2437.700	83.71	-10.23	54.0	-29.71	AV	293.00	100	Vertical	N/A
3	4994.250	48.71	-3.35	74.0	25.29	Peak	198.00	100	Vertical	Pass
3**	4994.250	39.92	-3.35	54.0	14.08	AV	198.00	100	Vertical	Pass
4	7868.250	54.33	1.65	74.0	19.67	Peak	77.00	100	Vertical	Pass
4**	7868.250	43.74	1.65	54.0	10.26	AV	77.00	100	Vertical	Pass
5	11799.287	52.99	-0.15	74.0	21.01	Peak	251.00	300	Vertical	Pass
5**	11799.287	43.95	-0.15	54.0	10.05	AV	251.00	300	Vertical	Pass
6	16415.287	55.30	2.96	74.0	18.70	Peak	286.00	400	Vertical	Pass
6**	16415.287	46.02	2.96	54.0	7.98	AV	286.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H802.11ax20(SU) High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1255.200	42.44	-17.41	74.0	31.56	Peak	331.00	200	Horizontal	Pass
1**	1255.200	32.64	-17.41	54.0	21.36	AV	331.00	200	Horizontal	Pass
2	2461.400	101.23	-11.44	74.0	-27.23	Peak	302.00	150	Horizontal	N/A
2**	2461.400	92.01	-11.44	54.0	-38.01	AV	302.00	150	Horizontal	N/A
3	4986.500	49.59	-3.10	74.0	24.41	Peak	270.00	200	Horizontal	Pass
3**	4986.500	39.90	-3.10	54.0	14.10	AV	270.00	200	Horizontal	Pass
4	7757.000	53.56	1.47	74.0	20.44	Peak	59.00	100	Horizontal	Pass
4**	7757.000	45.17	1.47	54.0	8.83	AV	59.00	100	Horizontal	Pass
5	11796.912	53.37	-0.15	74.0	20.63	Peak	332.00	400	Horizontal	Pass
5**	11796.912	43.54	-0.15	54.0	10.46	AV	332.00	400	Horizontal	Pass
6	17302.800	54.70	2.66	74.0	19.30	Peak	288.00	400	Horizontal	Pass
6**	17302.800	46.15	2.66	54.0	7.85	AV	288.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax20(SU) High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1167.000	48.99	-17.62	74.0	25.01	Peak	276.00	300	Vertical	Pass
1**	1167.000	33.25	-17.62	54.0	20.75	AV	276.00	300	Vertical	Pass
2	2460.700	94.83	-11.30	74.0	-20.83	Peak	286.00	150	Vertical	N/A
2**	2460.700	84.96	-11.30	54.0	-30.96	AV	286.00	150	Vertical	N/A
3	4954.000	49.61	-3.46	74.0	24.39	Peak	48.00	100	Vertical	Pass
3**	4954.000	40.05	-3.46	54.0	13.95	AV	48.00	100	Vertical	Pass
4	7768.500	53.40	1.44	74.0	20.60	Peak	69.00	400	Vertical	Pass
4**	7768.500	44.08	1.44	54.0	9.92	AV	69.00	400	Vertical	Pass
5	11785.750	52.91	-0.16	74.0	21.09	Peak	150.00	400	Vertical	Pass
5**	11785.750	43.38	-0.16	54.0	10.62	AV	150.00	400	Vertical	Pass
6	16434.449	54.56	2.71	74.0	19.44	Peak	232.00	200	Vertical	Pass
6**	16434.449	46.03	2.71	54.0	7.97	AV	232.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax40(SU) Low Channel

No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1327.900	42.00	-16.95	74.0	32.00	Peak	25.00	200	Horizontal	Pass
1**	1327.900	32.74	-16.95	54.0	21.26	AV	25.00	200	Horizontal	Pass
2	2420.300	98.78	-10.27	74.0	-24.78	Peak	305.00	150	Horizontal	N/A
2**	2420.300	89.00	-10.27	54.0	-35.00	AV	305.00	150	Horizontal	N/A
3	4940.000	49.74	-3.77	74.0	24.26	Peak	239.00	200	Horizontal	Pass
3**	4940.000	39.33	-3.77	54.0	14.67	AV	239.00	200	Horizontal	Pass
4	7761.750	53.63	1.45	74.0	20.37	Peak	281.00	300	Horizontal	Pass
4**	7761.750	44.82	1.45	54.0	9.18	AV	281.00	300	Horizontal	Pass
5	12348.151	53.11	0.84	74.0	20.89	Peak	4.00	400	Horizontal	Pass
5**	12348.151	42.40	0.84	54.0	11.60	AV	4.00	400	Horizontal	Pass
6	16420.012	55.25	2.90	74.0	18.75	Peak	262.00	100	Horizontal	Pass
6**	16420.012	45.96	2.90	54.0	8.04	AV	262.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax40(SU) Low Channel

No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1163.400	48.18	-17.66	74.0	25.82	Peak	257.00	200	Vertical	Pass
1**	1163.400	36.75	-17.66	54.0	17.25	AV	257.00	200	Vertical	Pass
2	2423.100	91.84	-10.30	74.0	-17.84	Peak	184.00	100	Vertical	N/A
2**	2423.100	80.97	-10.30	54.0	-26.97	AV	184.00	100	Vertical	N/A
3	4810.000	49.39	-2.99	74.0	24.61	Peak	232.00	200	Vertical	Pass
3**	4810.000	39.95	-2.99	54.0	14.05	AV	232.00	200	Vertical	Pass
4	7815.500	53.97	0.79	74.0	20.03	Peak	166.00	300	Vertical	Pass
4**	7815.500	45.14	0.79	54.0	8.86	AV	166.00	300	Vertical	Pass
5	12798.037	52.99	0.96	74.0	21.01	Peak	349.00	200	Vertical	Pass
5**	12798.037	42.42	0.96	54.0	11.58	AV	349.00	200	Vertical	Pass
6	16509.787	54.59	0.80	74.0	19.41	Peak	138.00	300	Vertical	Pass
6**	16509.787	44.43	0.80	54.0	9.57	AV	138.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax40(SU) Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1562.300	42.93	-17.27	74.0	31.07	Peak	273.00	300	Horizontal	Pass
1**	1562.300	32.73	-17.27	54.0	21.27	AV	273.00	300	Horizontal	Pass
2	2436.100	99.38	-10.19	74.0	-25.38	Peak	302.00	100	Horizontal	N/A
2**	2436.100	89.04	-10.19	54.0	-35.04	AV	302.00	100	Horizontal	N/A
3	4969.000	49.14	-3.57	74.0	24.86	Peak	262.00	200	Horizontal	Pass
3**	4969.000	39.66	-3.57	54.0	14.34	AV	262.00	200	Horizontal	Pass
4	7765.250	53.04	1.66	74.0	20.96	Peak	19.00	300	Horizontal	Pass
4**	7765.250	44.19	1.66	54.0	9.81	AV	19.00	300	Horizontal	Pass
5	12523.900	52.89	1.30	74.0	21.11	Peak	145.00	100	Horizontal	Pass
5**	12523.900	42.72	1.30	54.0	11.28	AV	145.00	100	Horizontal	Pass
6	16418.962	54.43	2.91	74.0	19.57	Peak	230.00	100	Horizontal	Pass
6**	16418.962	45.01	2.91	54.0	8.99	AV	230.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax40(SU) Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1165.400	47.05	-17.49	74.0	26.95	Peak	269.00	300	Vertical	Pass
1**	1165.400	38.99	-17.49	54.0	15.01	AV	269.00	300	Vertical	Pass
2	2435.600	90.97	-10.15	74.0	-16.97	Peak	289.00	150	Vertical	N/A
2**	2435.600	82.09	-10.15	54.0	-28.09	AV	289.00	150	Vertical	N/A
3	4902.750	48.55	-3.20	74.0	25.45	Peak	174.00	200	Vertical	Pass
3**	4902.750	39.92	-3.20	54.0	14.08	AV	174.00	200	Vertical	Pass
4	7740.000	52.78	0.27	74.0	21.22	Peak	3.00	150	Vertical	Pass
4**	7740.000	44.21	0.27	54.0	9.79	AV	3.00	150	Vertical	Pass
5	12424.150	51.97	1.07	74.0	22.03	Peak	106.00	400	Vertical	Pass
5**	12424.150	42.59	1.07	54.0	11.41	AV	106.00	400	Vertical	Pass
6	16427.099	54.45	2.80	74.0	19.55	Peak	60.00	400	Vertical	Pass
6**	16427.099	45.38	2.80	54.0	8.62	AV	60.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax40(SU) High Channel

No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1444.100	42.08	-17.00	74.0	31.92	Peak	297.00	200	Horizontal	Pass
1**	1444.100	33.21	-17.00	54.0	20.79	AV	297.00	200	Horizontal	Pass
2	2449.800	99.31	-10.38	74.0	-25.31	Peak	307.00	100	Horizontal	N/A
2**	2449.800	90.05	-10.38	54.0	-36.05	AV	307.00	100	Horizontal	N/A
3	4817.500	49.11	-2.89	74.0	24.89	Peak	211.00	150	Horizontal	Pass
3**	4817.500	39.78	-2.89	54.0	14.22	AV	211.00	150	Horizontal	Pass
4	7764.000	53.69	1.74	74.0	20.31	Peak	256.00	400	Horizontal	Pass
4**	7764.000	44.05	1.74	54.0	9.95	AV	256.00	400	Horizontal	Pass
5	12781.500	52.70	0.99	74.0	21.30	Peak	100.00	300	Horizontal	Pass
5**	12781.500	41.94	0.99	54.0	12.06	AV	100.00	300	Horizontal	Pass
6	16885.162	54.61	2.97	74.0	19.39	Peak	91.00	300	Horizontal	Pass
6**	16885.162	44.81	2.97	54.0	9.19	AV	91.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax40(SU) High Channel

No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.700	48.07	-17.06	74.0	25.93	Peak	261.00	100	Vertical	Pass
1**	1330.700	39.49	-17.06	54.0	14.51	AV	261.00	100	Vertical	Pass
2	2452.500	91.89	-10.75	74.0	-17.89	Peak	290.00	150	Vertical	N/A
2**	2452.500	80.99	-10.75	54.0	-26.99	AV	290.00	150	Vertical	N/A
3	4978.500	49.31	-3.39	74.0	24.69	Peak	259.00	100	Vertical	Pass
3**	4978.500	40.61	-3.39	54.0	13.39	AV	259.00	100	Vertical	Pass
4	7803.250	53.02	0.82	74.0	20.98	Peak	52.00	100	Vertical	Pass
4**	7803.250	44.08	0.82	54.0	9.92	AV	52.00	100	Vertical	Pass
5	11801.662	52.41	-0.16	74.0	21.59	Peak	359.00	100	Vertical	Pass
5**	11801.662	42.83	-0.16	54.0	11.17	AV	359.00	100	Vertical	Pass
6	16876.762	54.57	3.11	74.0	19.43	Peak	147.00	400	Vertical	Pass
6**	16876.762	45.52	3.11	54.0	8.48	AV	147.00	400	Vertical	Pass

Antenna 1**1 GHz to 18 GHz, ANT H 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	1444.000	42.49	-16.94	74.0	31.51	Peak	0.00	400	Horizontal	Pass
1**	1444.000	32.20	-16.94	54.0	21.80	AV	0.00	400	Horizontal	Pass
2	2410.600	106.75	-10.39	74.0	-32.75	Peak	325.00	150	Horizontal	N/A
2**	2410.600	103.98	-10.39	54.0	-49.98	AV	325.00	150	Horizontal	N/A
3	4824.250	48.97	-3.48	74.0	25.03	Peak	256.00	100	Horizontal	Pass
3**	4824.250	41.85	-3.48	54.0	12.15	AV	256.00	100	Horizontal	Pass
4	7799.000	54.12	0.65	74.0	19.88	Peak	360.00	400	Horizontal	Pass
4**	7799.000	44.48	0.65	54.0	9.52	AV	360.00	400	Horizontal	Pass
5	11776.012	52.44	-0.17	74.0	21.56	Peak	109.00	200	Horizontal	Pass
5**	11776.012	43.02	-0.17	54.0	10.98	AV	109.00	200	Horizontal	Pass
6	16402.688	54.92	3.13	74.0	19.08	Peak	198.00	200	Horizontal	Pass
6**	16402.688	46.00	3.13	54.0	8.00	AV	198.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 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	1165.600	47.88	-17.48	74.0	26.12	Peak	267.00	300	Vertical	Pass
1**	1165.600	38.41	-17.48	54.0	15.59	AV	267.00	300	Vertical	Pass
2	2410.600	99.51	-10.39	74.0	-25.51	Peak	228.00	150	Vertical	N/A
2**	2410.600	96.64	-10.39	54.0	-42.64	AV	228.00	150	Vertical	N/A
3	4965.250	49.35	-3.48	74.0	24.65	Peak	0.00	100	Vertical	Pass
3**	4965.250	39.79	-3.48	54.0	14.21	AV	0.00	100	Vertical	Pass
4	7758.000	53.42	1.54	74.0	20.58	Peak	360.00	100	Vertical	Pass
4**	7758.000	45.10	1.54	54.0	8.90	AV	360.00	100	Vertical	Pass
5	12543.612	53.32	1.19	74.0	20.68	Peak	215.00	100	Vertical	Pass
5**	12543.612	43.20	1.19	54.0	10.80	AV	215.00	100	Vertical	Pass
6	16161.713	55.16	2.07	74.0	18.84	Peak	360.00	400	Vertical	Pass
6**	16161.713	45.35	2.07	54.0	8.65	AV	360.00	400	Vertical	Pass