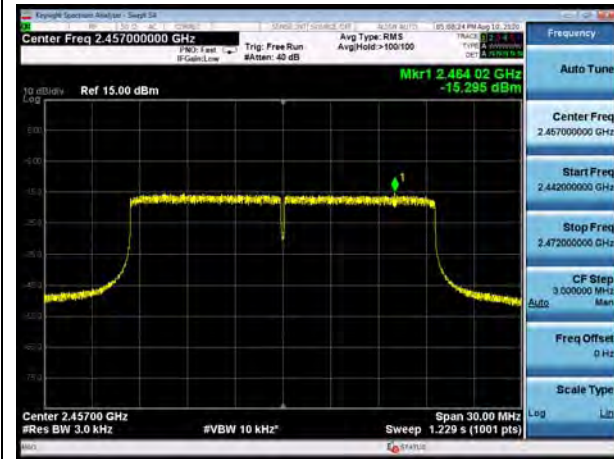
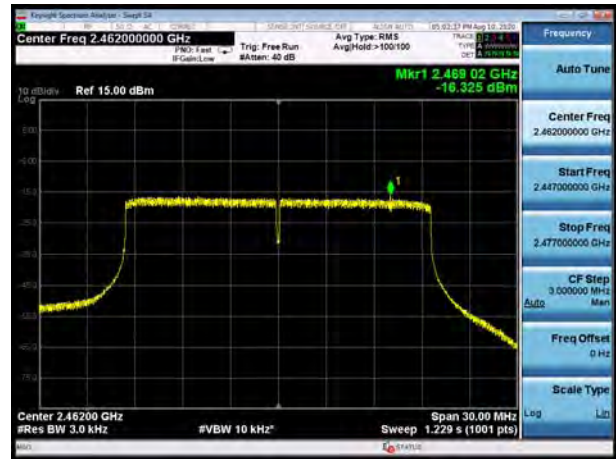




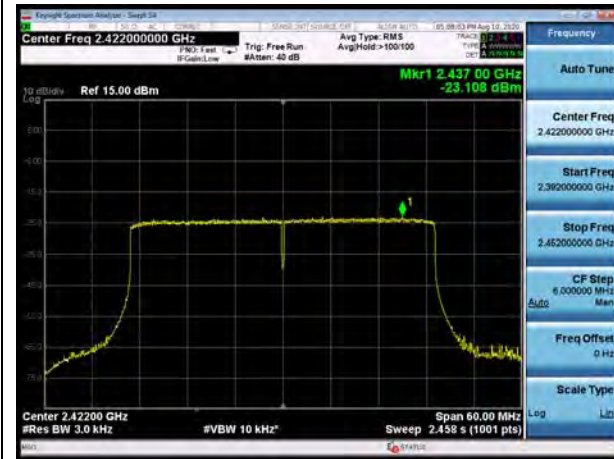
802.11ax (HE20), Channel No. 10



802.11ax (HE20), Channel No. 11



802.11ax (HE40), Channel No. 3



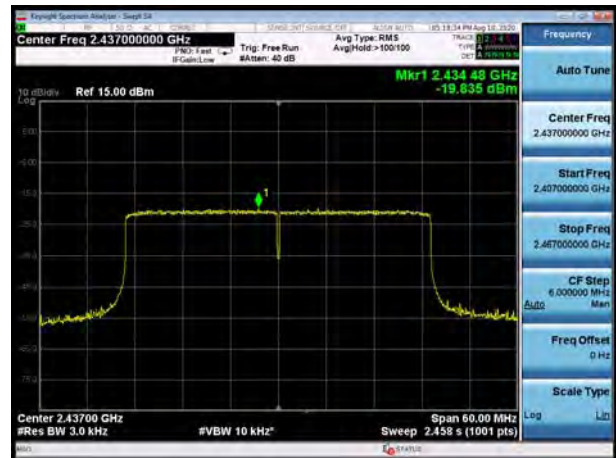
802.11ax (HE40), Channel No. 4



802.11ax (HE40), Channel No. 5

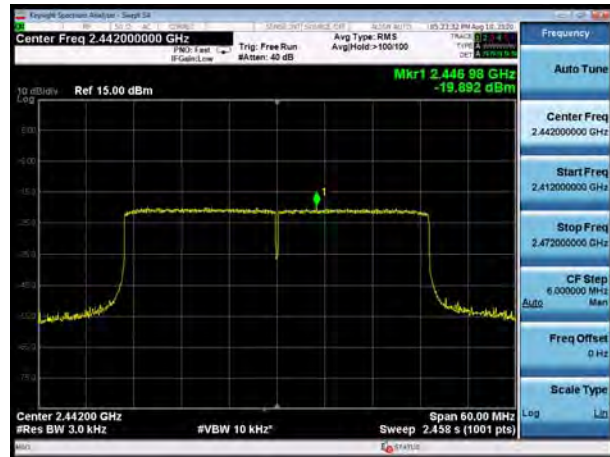


802.11ax (HE40), Channel No. 6





802.11ax (HE40), Channel No. 7



802.11ax (HE40), Channel No. 8



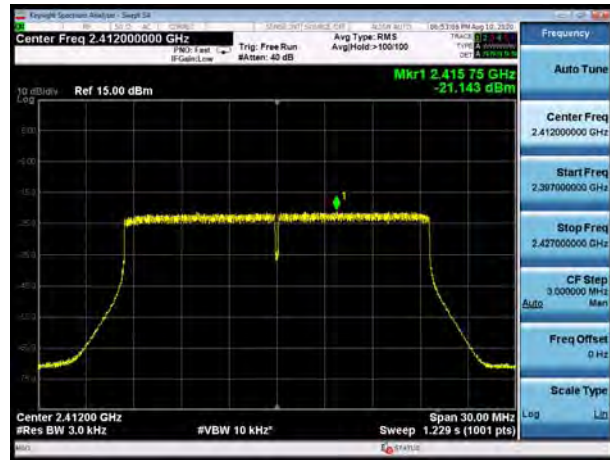
802.11ax (HE40), Channel No. 9



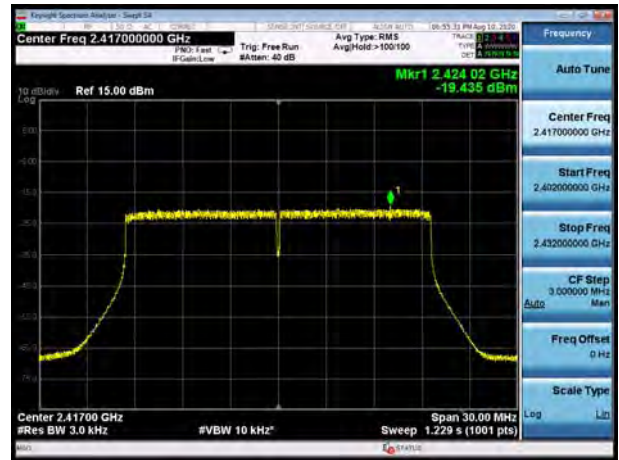


MIMO Antenna
Without Beamforming
MIMO Antenna 1

802.11ax (HE20), Channel No. 1



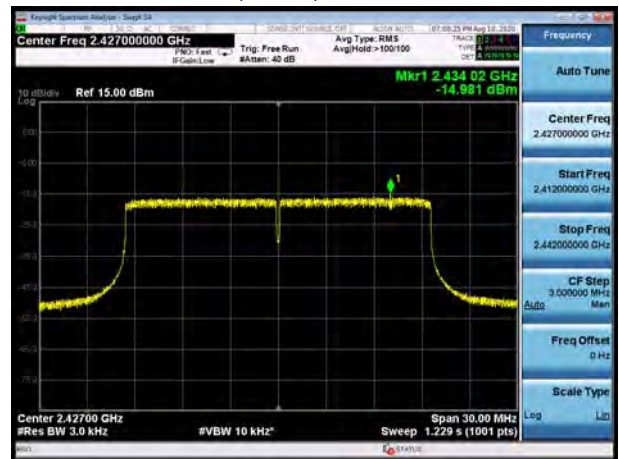
802.11ax (HE20), Channel No. 2



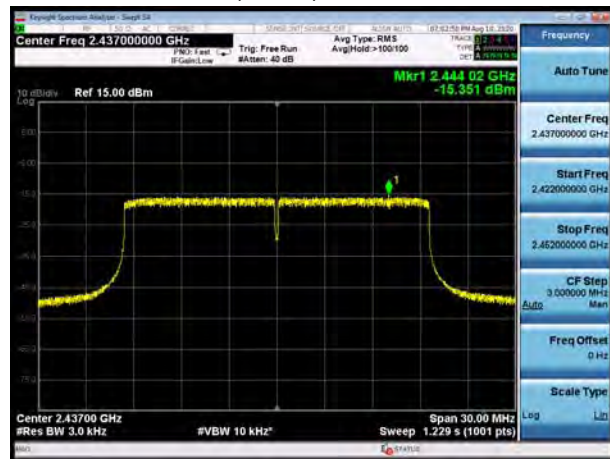
802.11ax (HE20), Channel No. 3



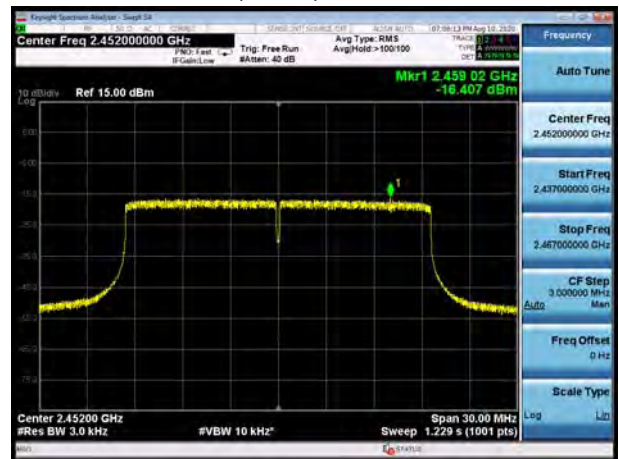
802.11ax (HE20), Channel No. 4



802.11ax (HE20), Channel No. 6

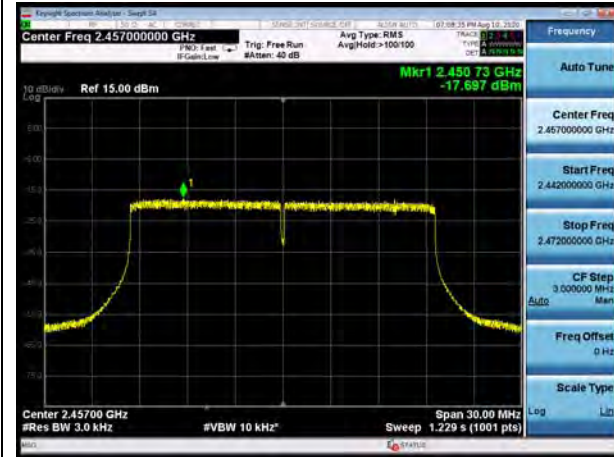


802.11ax (HE20), Channel No. 9

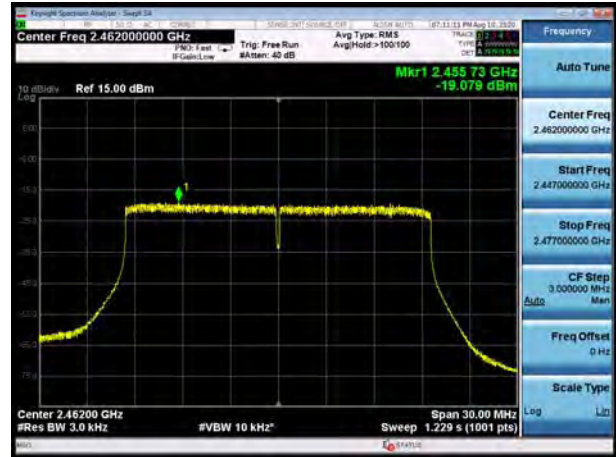




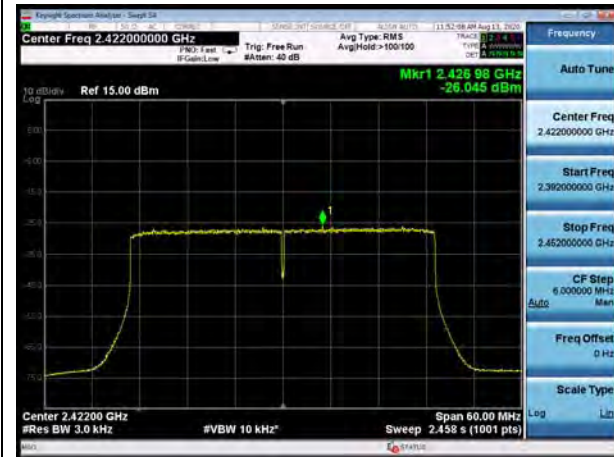
802.11ax (HE20), Channel No. 10



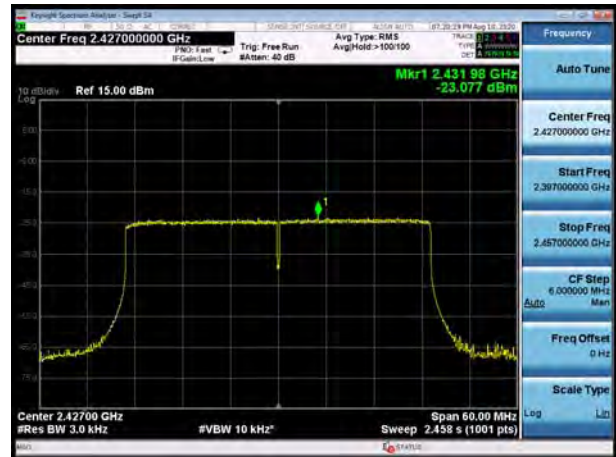
802.11ax (HE20), Channel No. 11



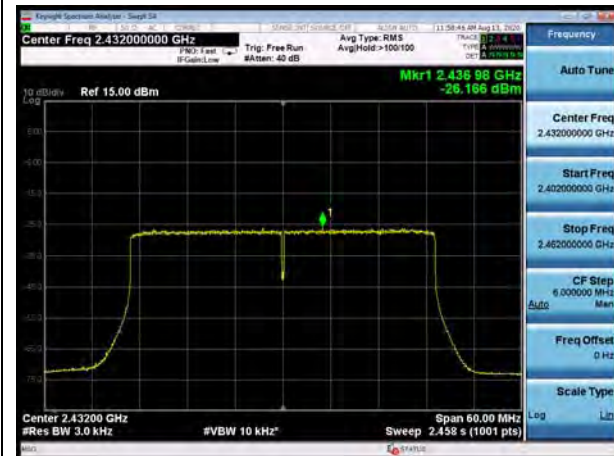
802.11ax (HE40), Channel No. 3



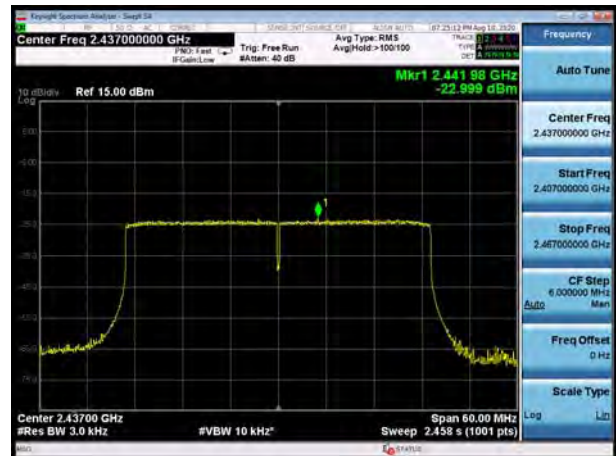
802.11ax (HE40), Channel No. 4



802.11ax (HE40), Channel No. 5

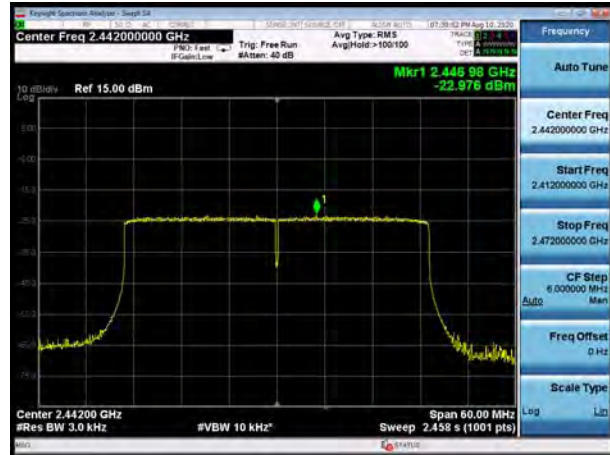


802.11ax (HE40), Channel No. 6

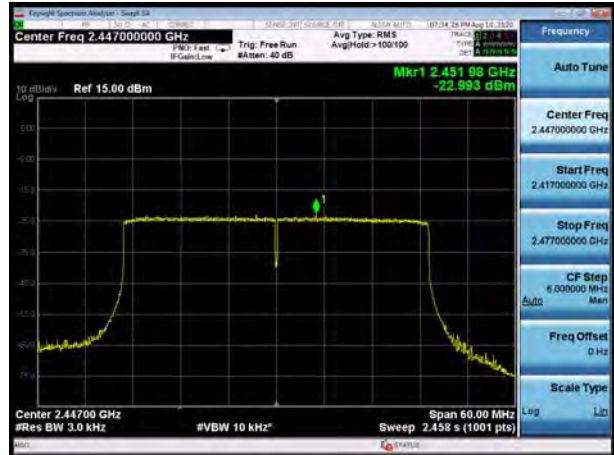




802.11ax (HE40), Channel No. 7



802.11ax (HE40), Channel No. 8



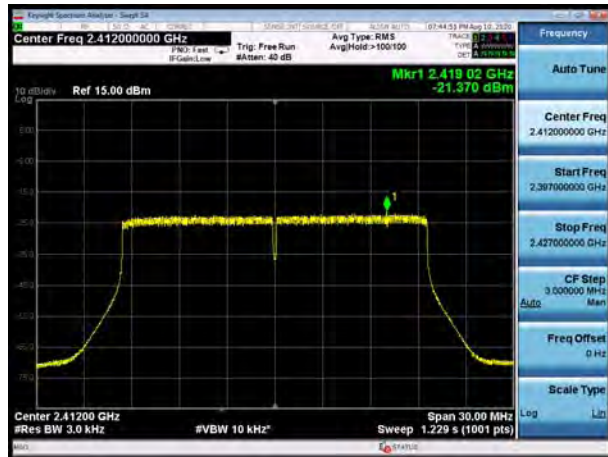
802.11ax (HE40), Channel No. 9



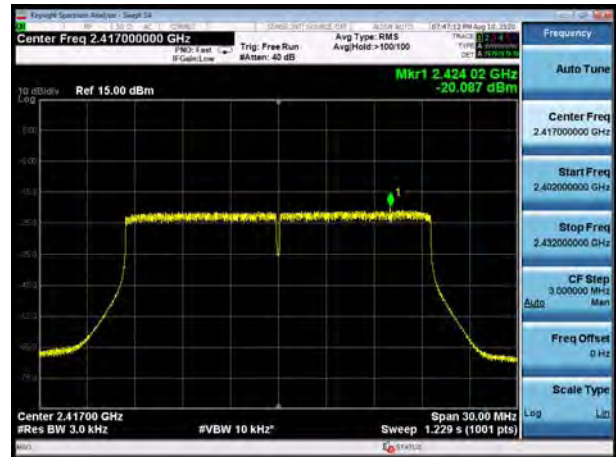


MIMO Antenna 2

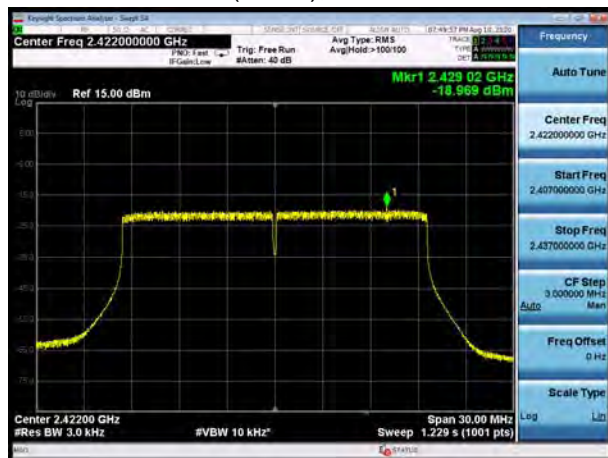
802.11ax (HE20), Channel No. 1



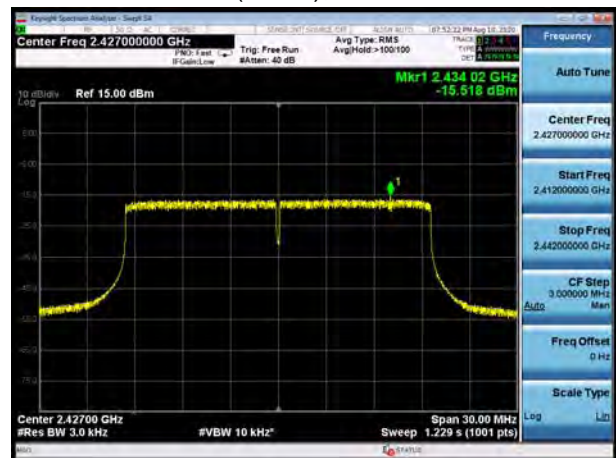
802.11ax (HE20), Channel No. 2



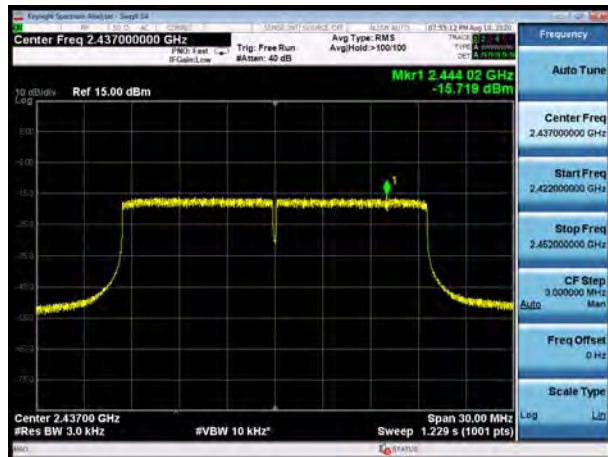
802.11ax (HE20), Channel No. 3



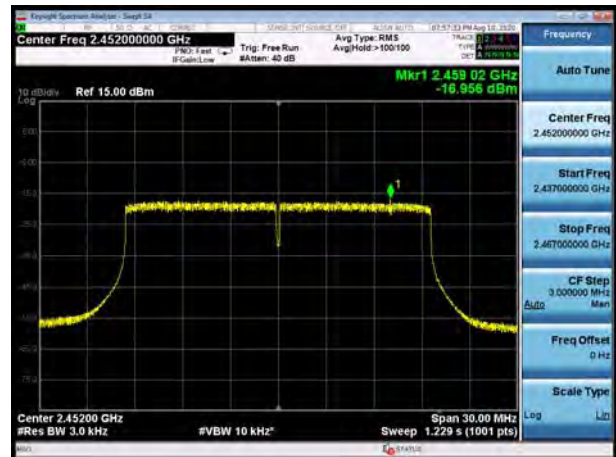
802.11ax (HE20), Channel No. 4



802.11ax (HE20), Channel No. 6

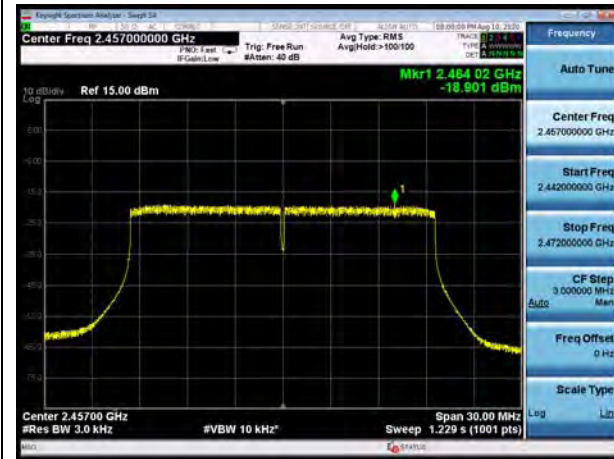


802.11ax (HE20), Channel No. 9

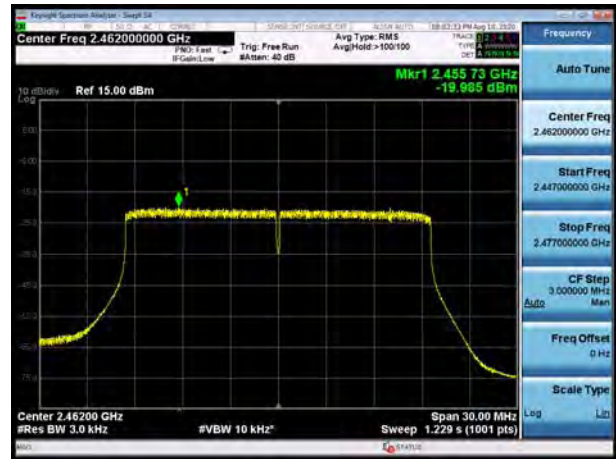




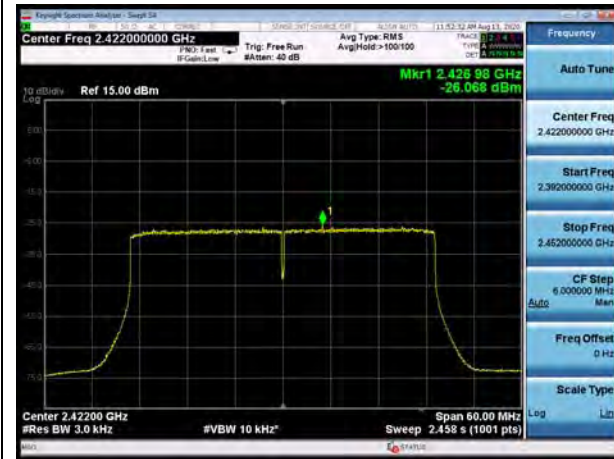
802.11ax (HE20), Channel No. 10



802.11ax (HE20), Channel No. 11



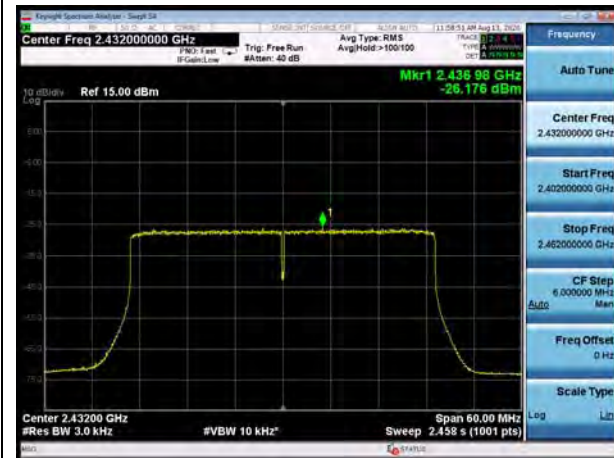
802.11ax (HE40), Channel No. 3



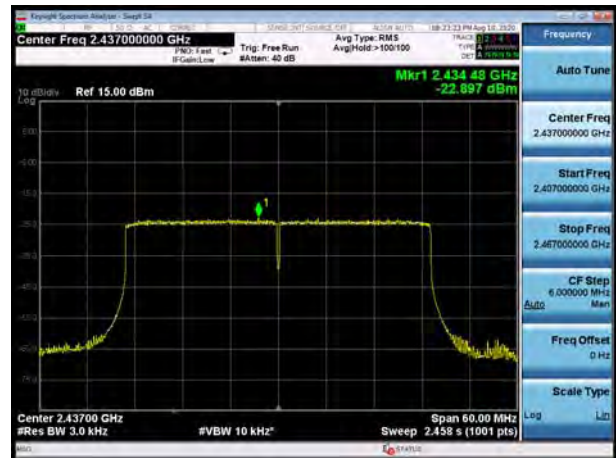
802.11ax (HE40), Channel No. 4



802.11ax (HE40), Channel No. 5

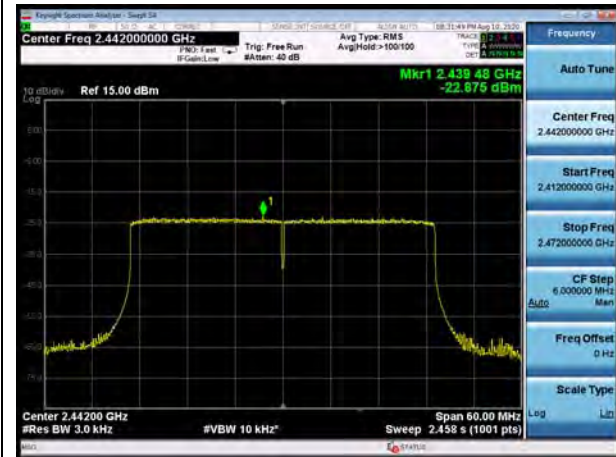


802.11ax (HE40), Channel No. 6





802.11ax (HE40), Channel No. 7



802.11ax (HE40), Channel No. 8



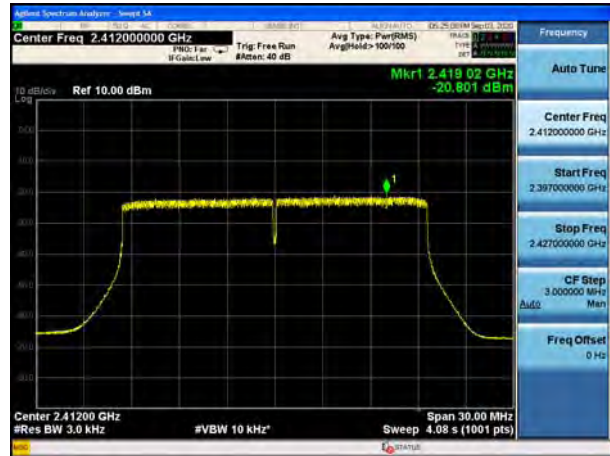
802.11ax (HE40), Channel No. 9



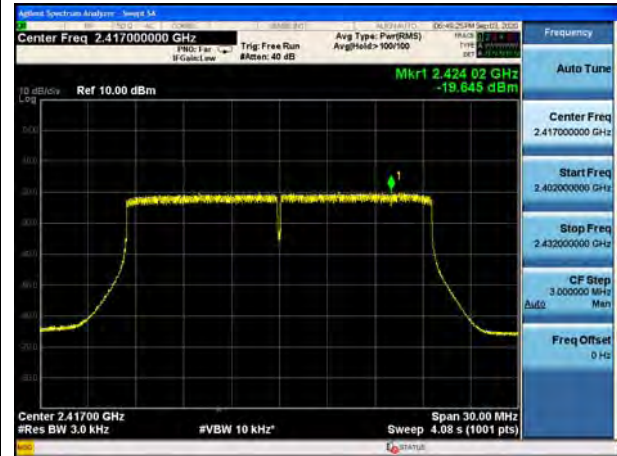


With Beamforming MIMO Antenna 1

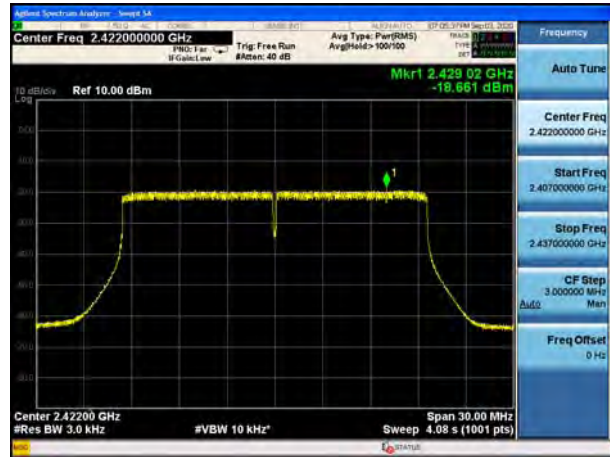
802.11ax (HE20), Channel No. 1



802.11ax (HE20), Channel No. 2



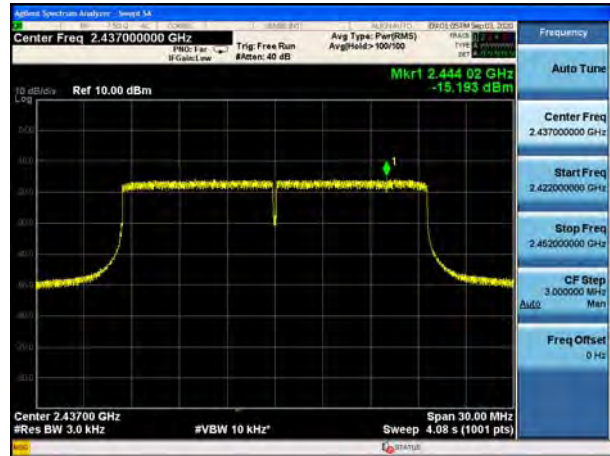
802.11ax (HE20), Channel No. 3



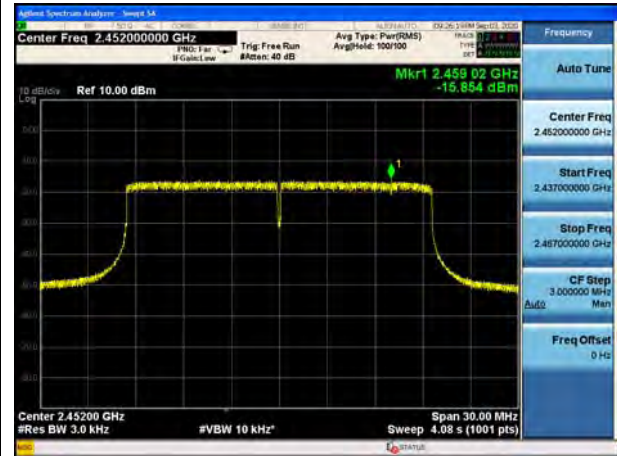
802.11ax (HE20), Channel No. 4



802.11ax (HE20), Channel No. 6

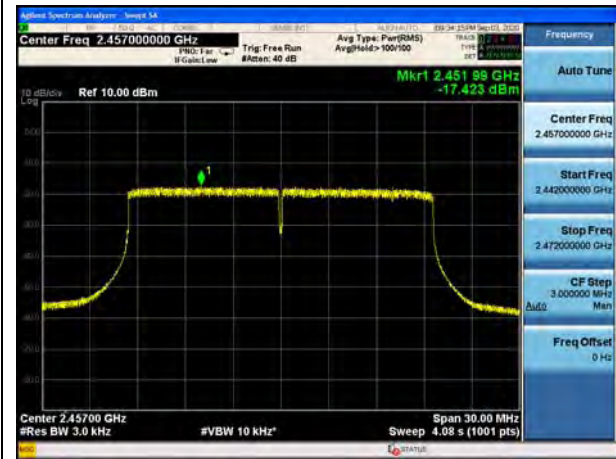


802.11ax (HE20), Channel No. 9





802.11ax (HE20), Channel No. 10



802.11ax (HE20), Channel No. 11



802.11ax (HE40), Channel No. 3



802.11ax (HE40), Channel No. 4



802.11ax (HE40), Channel No. 5



802.11ax (HE40), Channel No. 6





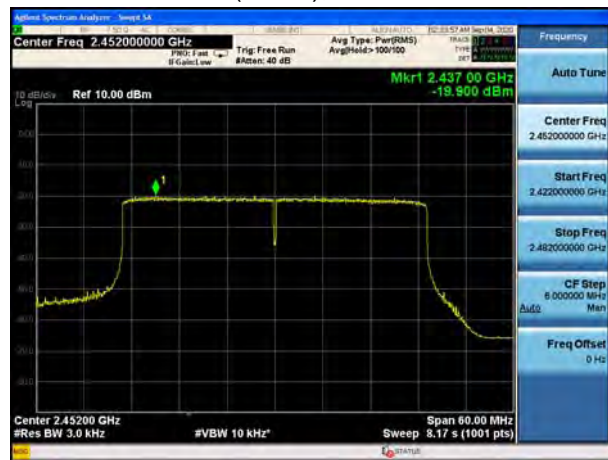
802.11ax (HE40), Channel No. 7



802.11ax (HE40), Channel No. 8



802.11ax (HE40), Channel No. 9



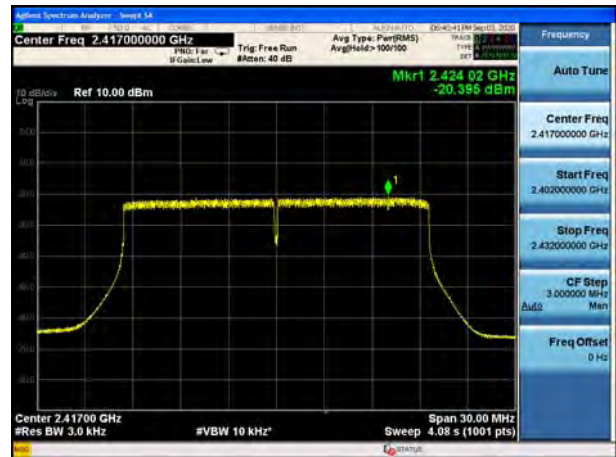


MIMO Antenna 2

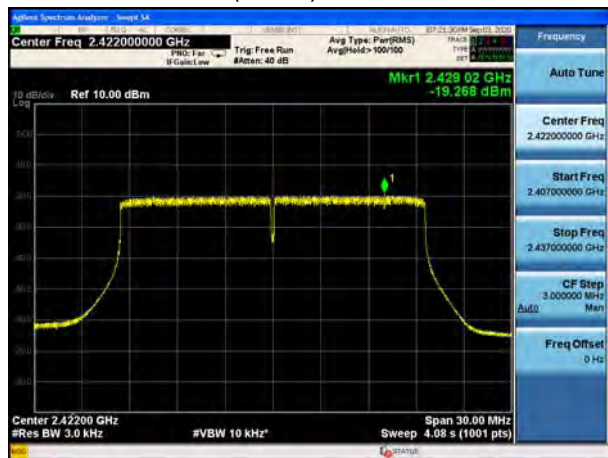
802.11ax (HE20), Channel No. 1



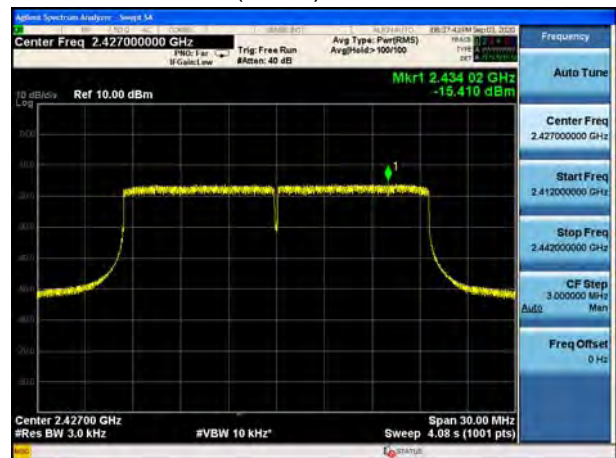
802.11ax (HE20), Channel No. 2



802.11ax (HE20), Channel No. 3



802.11ax (HE20), Channel No. 4



802.11ax (HE20), Channel No. 6



802.11ax (HE20), Channel No. 9





802.11ax (HE20), Channel No. 10



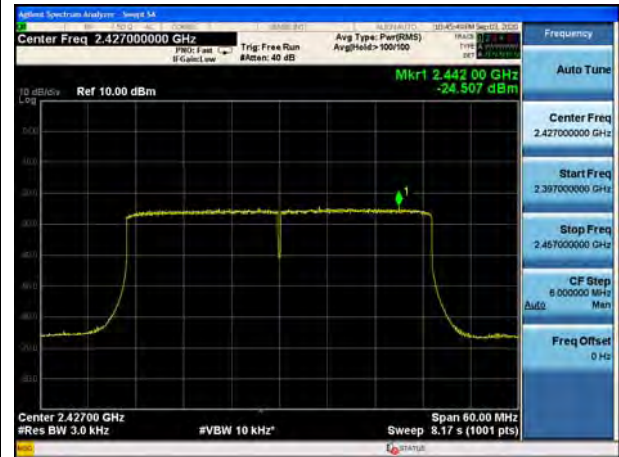
802.11ax (HE20), Channel No. 11



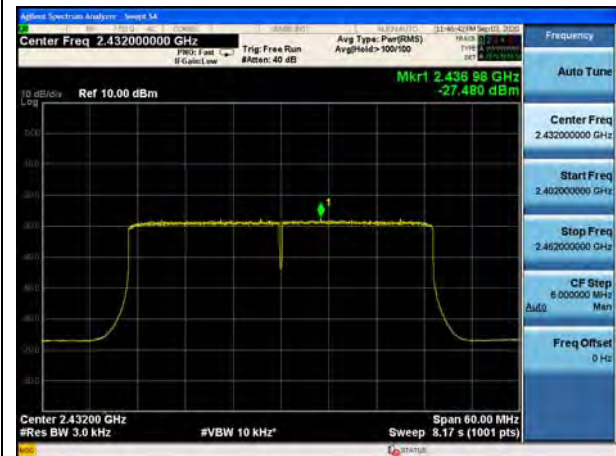
802.11ax (HE40), Channel No. 3



802.11ax (HE40), Channel No. 4



802.11ax (HE40), Channel No. 5

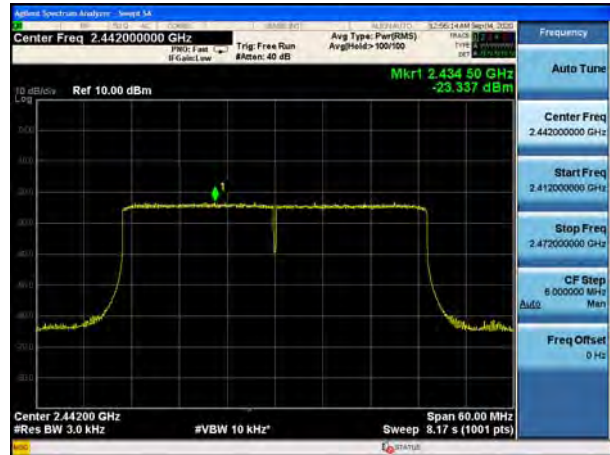


802.11ax (HE40), Channel No. 6





802.11ax (HE40), Channel No. 7



802.11ax (HE40), Channel No. 8



802.11ax (HE40), Channel No. 9



5.5. Spurious RF Conducted Emissions

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to the spectrum analyzer with a known loss. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. Set RBW to 100 kHz and VBW to 300 kHz, Sweep is set to ATUO.

The test is in transmitting mode.

Test setup



Limits

Rule Part 15.247(d) pacifies that “In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. ”

TB Mode

MIMO Antenna 1

Network Standards	Channel Number	Reference value (dBm)	Limit
802.11ax (HE20) 26-Tones	1	0.76	-29.24
	2	1.41	-28.59
	3	2.45	-27.55
	4	5.51	-24.49
	6	5.47	-24.53
	9	4.85	-25.15
	10	2.79	-27.21
802.11ax (HE20) 52-Tones	11	2.59	-27.41
	1	1.37	-28.63
	2	2.40	-27.60



	3	3.46	-26.54
	4	6.59	-23.41
	6	6.50	-23.50
	9	5.52	-24.48
	10	3.86	-26.14
	11	3.12	-26.88
802.11ax (HE20) 106-Tones	1	2.29	-27.71
	2	3.51	-26.49
	3	4.16	-25.84
	4	7.64	-22.36
	6	7.92	-22.08
	9	6.99	-23.01
	10	5.66	-24.34
	11	4.35	-25.65
802.11ax (HE40) 52-Tones	3	-2.52	-32.52
	4	-1.28	-31.28
	5	0.82	-29.18
	6	1.16	-28.84
	8	1.24	-28.76
	9	2.88	-27.12
802.11ax (HE40) 106-Tones	3	-2.15	-32.15
	4	-0.89	-30.89
	5	0.04	-29.96
	6	1.38	-28.62
	8	1.09	-28.91
	9	2.90	-27.10
802.11ax (HE40) 242-Tones	3	-0.59	-30.59
	4	0.08	-29.92
	5	2.19	-27.81
	6	2.84	-27.16
	8	2.93	-27.07
	9	4.01	-25.99
802.11ax (HE40) 484-Tones	3	-0.75	-30.75
	4	0.61	-29.39
	5	2.09	-27.91
	6	2.85	-27.15
	8	2.75	-27.25
	9	4.69	-25.31

SU Mode
MIMO Antenna

Network Standards	Carrier frequency (MHz)	Reference value (dBm)	Limit
802.11ax (HE20)	1	5.63	-24.37
	2	5.29	-24.71
	3	5.52	-24.48
	4	4.76	-25.24
	6	4.91	-25.09
	9	4.16	-25.84
	10	4.12	-25.88
	11	3.84	-26.16
802.11ax (HE40)	3	1.24	-28.76
	4	1.09	-28.91
	5	4.32	-25.68
	6	2.05	-27.95
	7	2.02	-27.98
	8	1.70	-28.30
	9	0.34	-29.66

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-26GHz	1.407 dB

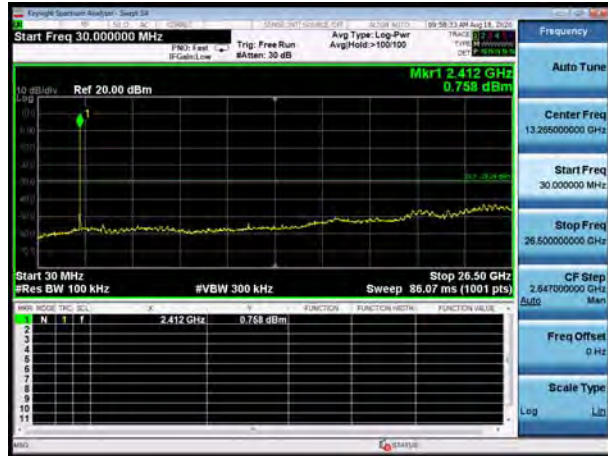


Test Results:

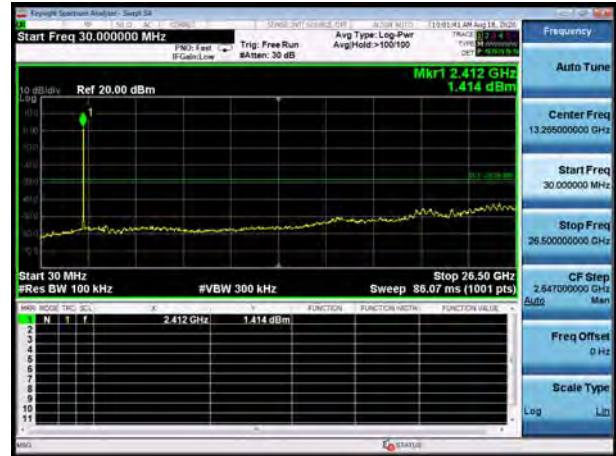
TB Mode

MIMO Antenna

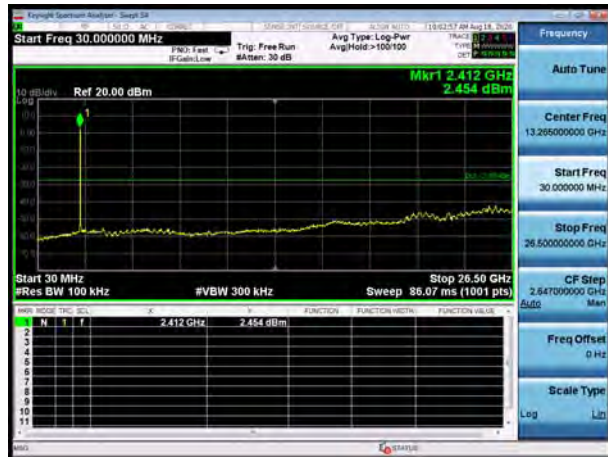
802.11ax (HE20), Channel No. 1
26-Tones



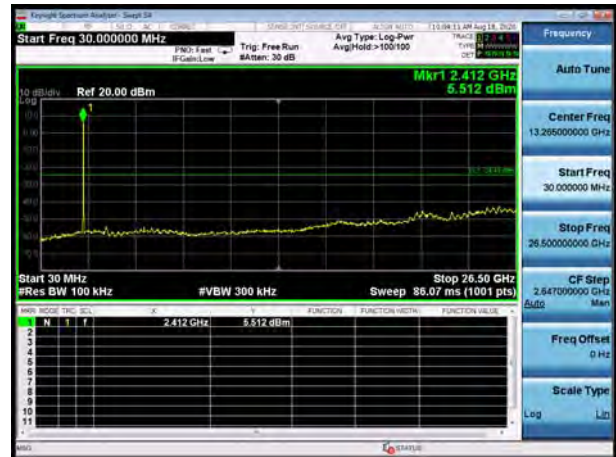
802.11ax (HE20), Channel No. 2
26-Tones



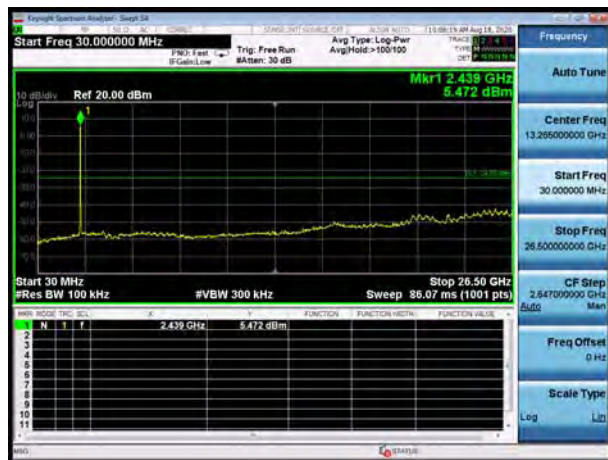
802.11ax (HE20), Channel No. 3
26-Tones



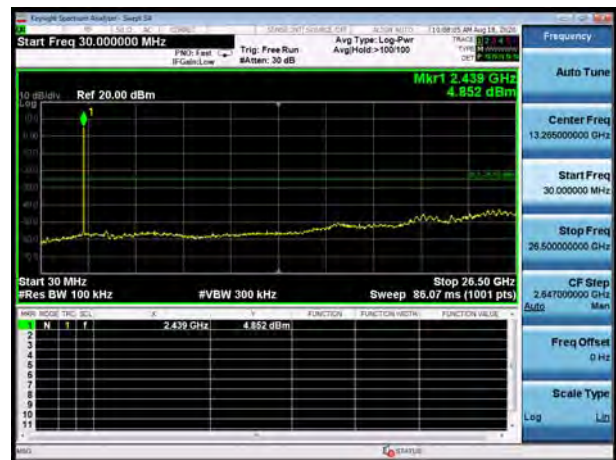
802.11ax (HE20), Channel No. 4
26-Tones



802.11ax (HE20), Channel No. 6
26-Tones

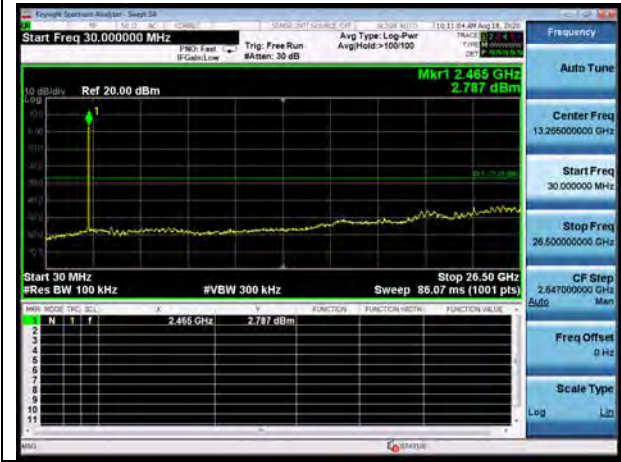


802.11ax (HE20), Channel No. 9
26-Tones

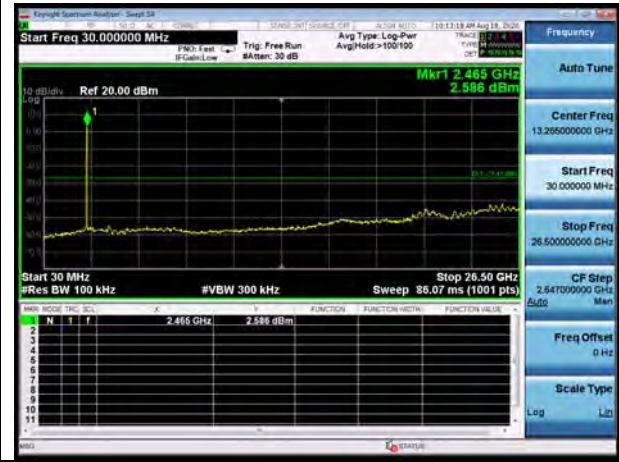




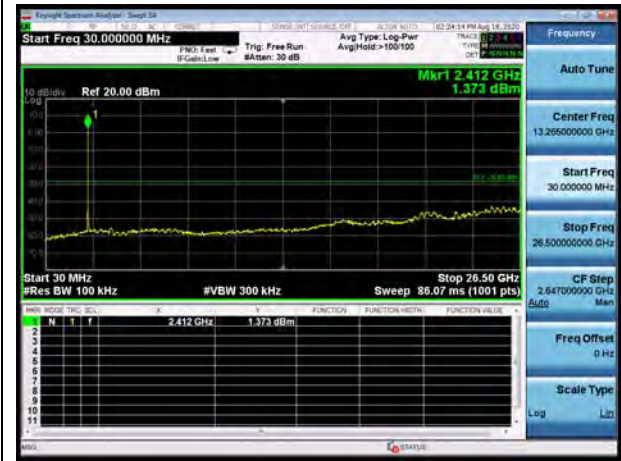
802.11ax (HE20), Channel No. 10
26-Tones



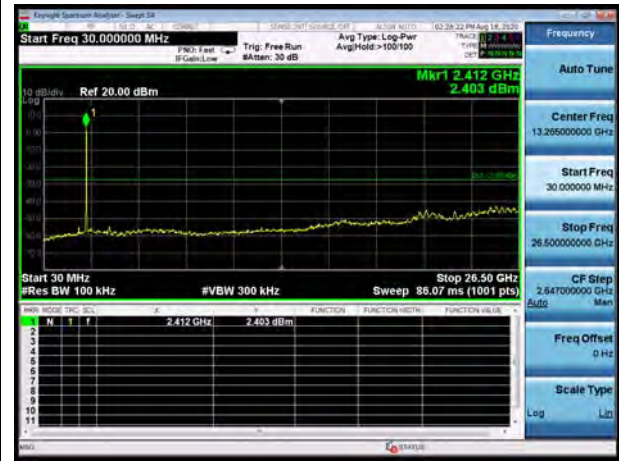
802.11ax (HE20), Channel No. 11
26-Tones



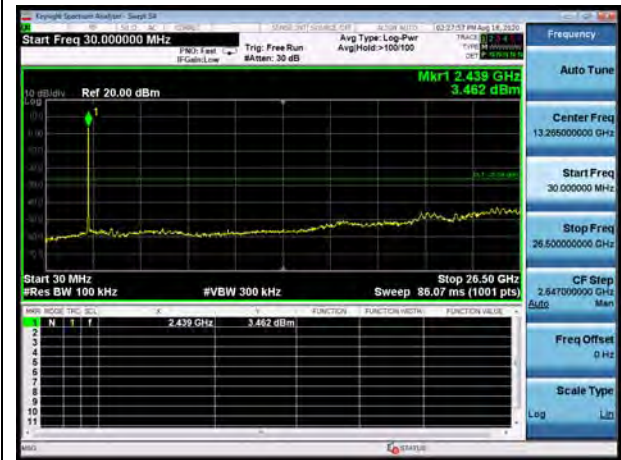
802.11ax (HE20), Channel No. 1
52-Tones



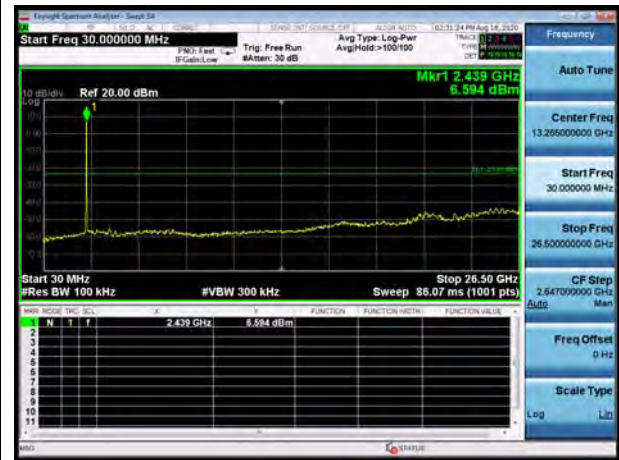
802.11ax (HE20), Channel No. 2
52-Tones



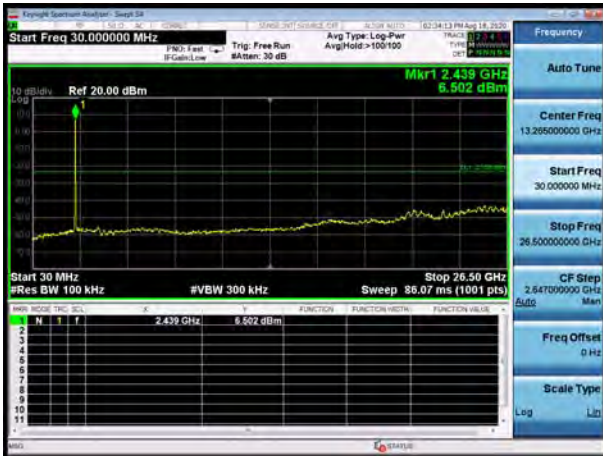
802.11ax (HE20), Channel No. 3
52-Tones



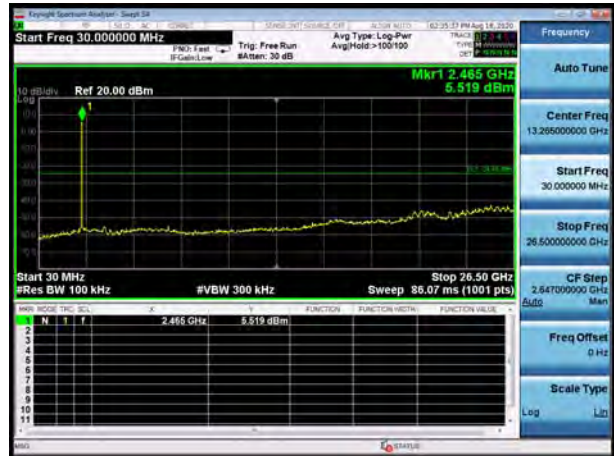
802.11ax (HE20), Channel No. 4
52-Tones



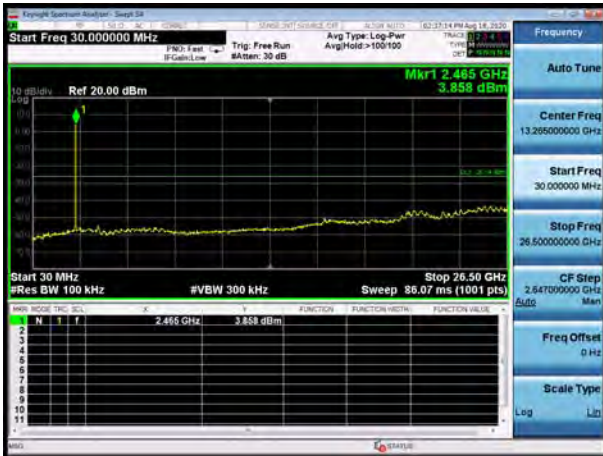
802.11ax (HE20), Channel No. 6
52-Tones



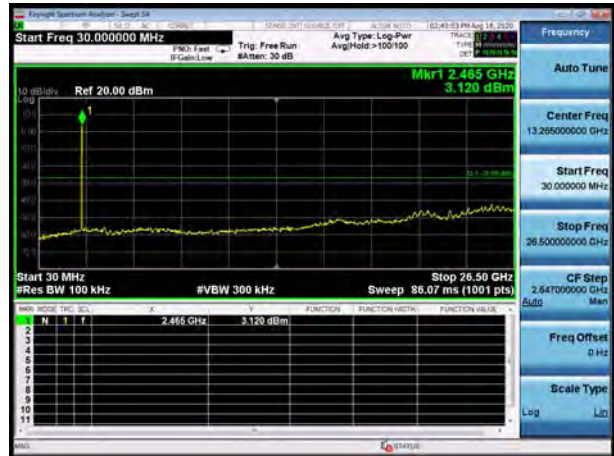
802.11ax (HE20), Channel No. 9
52-Tones



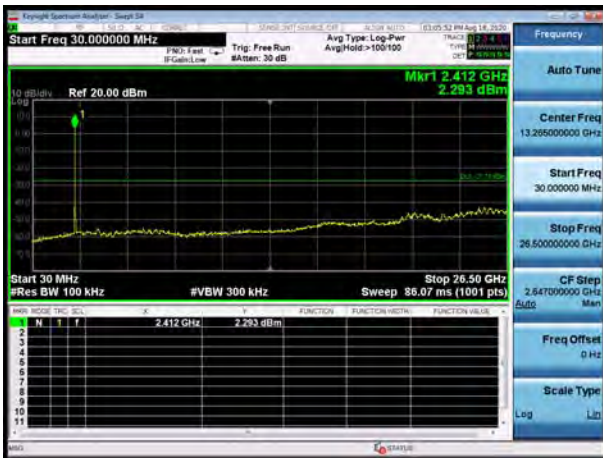
802.11ax (HE20), Channel No. 10
52-Tones



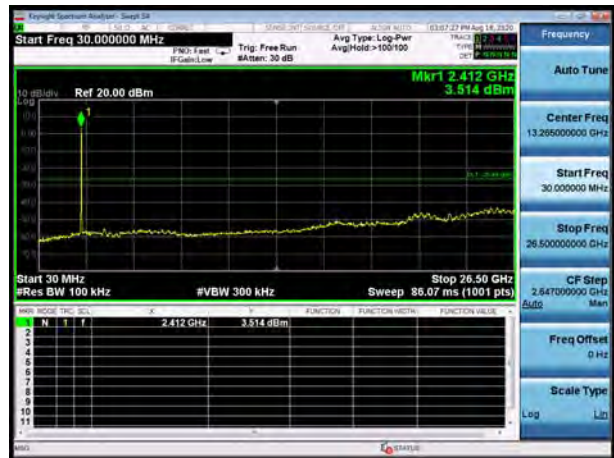
802.11ax (HE20), Channel No. 11
52-Tones



802.11ax (HE20), Channel No. 1
106-Tones

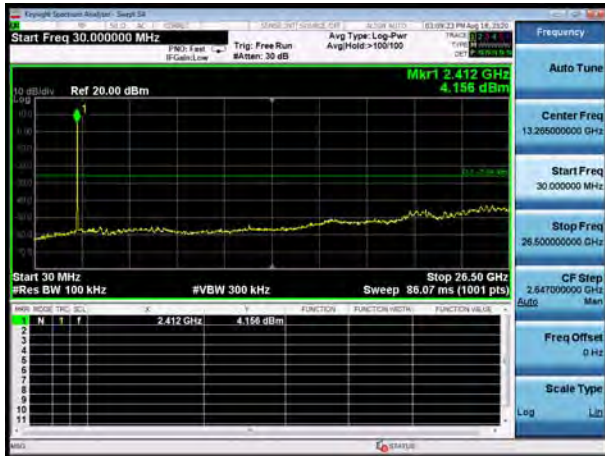


802.11ax (HE20), Channel No. 2
106-Tones

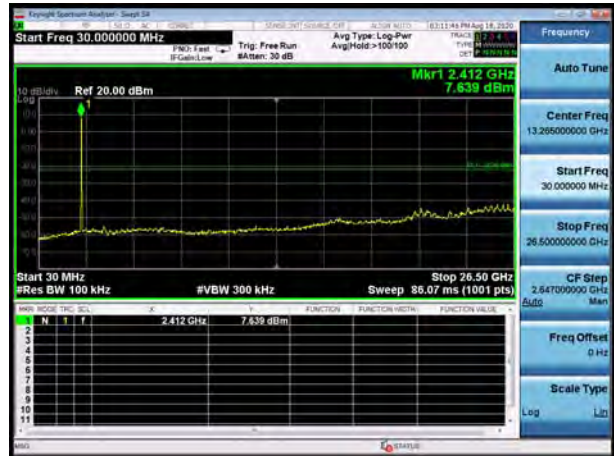




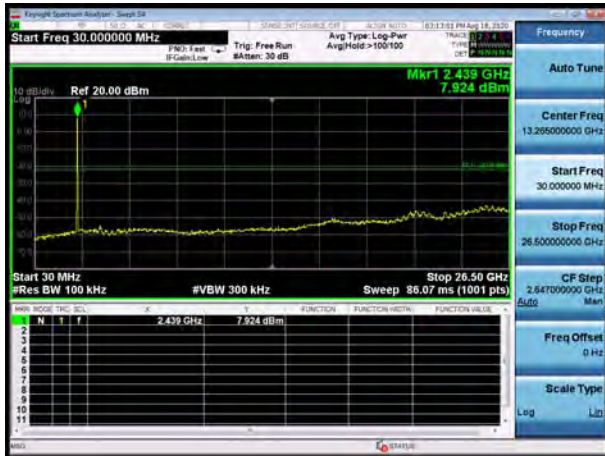
802.11ax (HE20), Channel No. 3
106-Tones



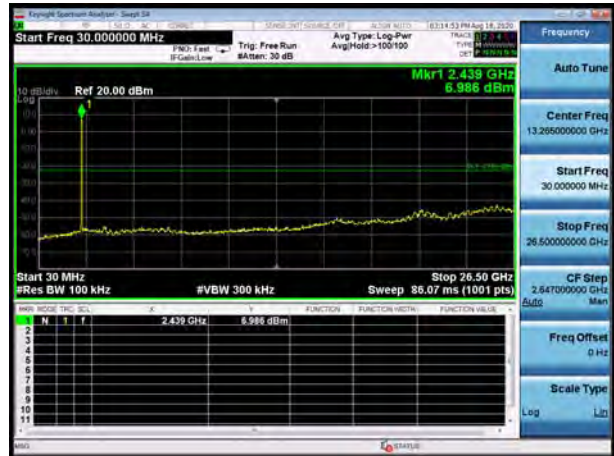
802.11ax (HE20), Channel No. 4
106-Tones



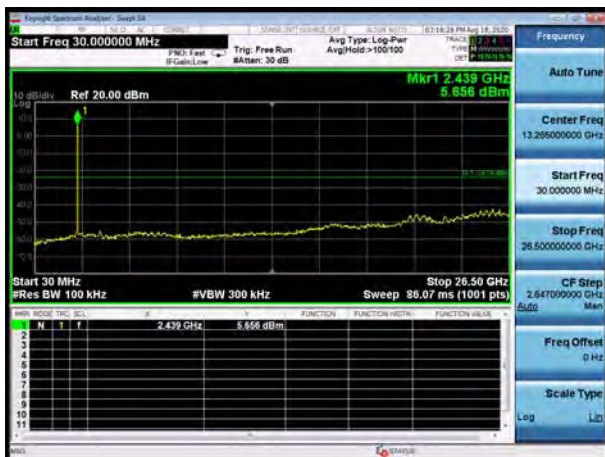
802.11ax (HE20), Channel No. 6
106-Tones



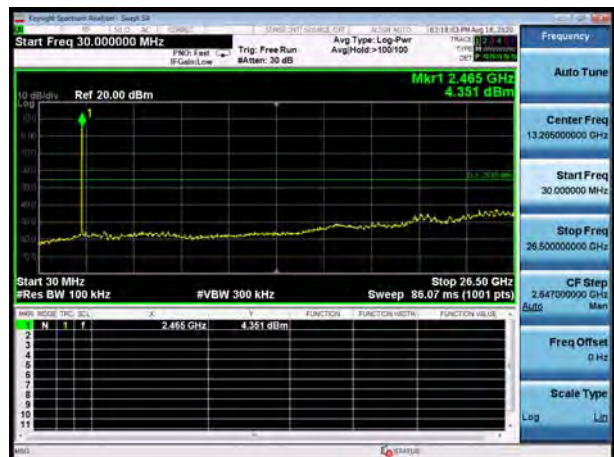
802.11ax (HE20), Channel No. 9
106-Tones



802.11ax (HE20), Channel No. 10
106-Tones

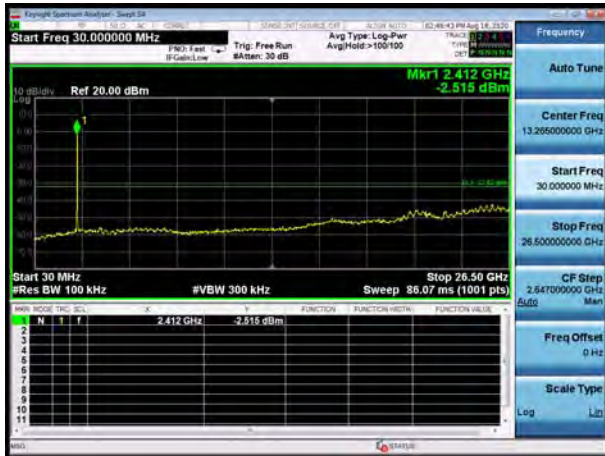


802.11ax (HE20), Channel No. 11
106-Tones

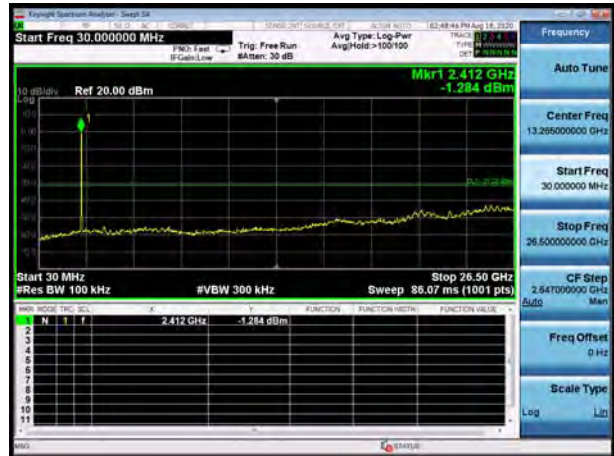




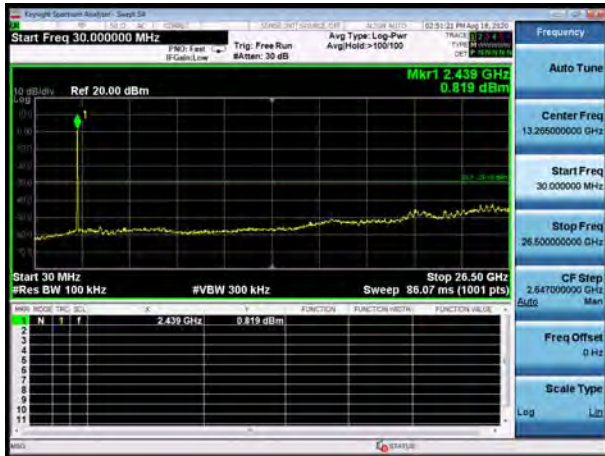
802.11ax (HE40), Channel No. 3
52-Tones



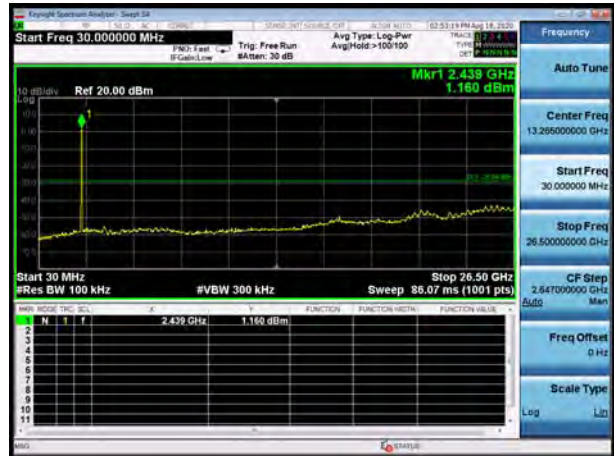
802.11ax (HE40), Channel No. 4
52-Tones



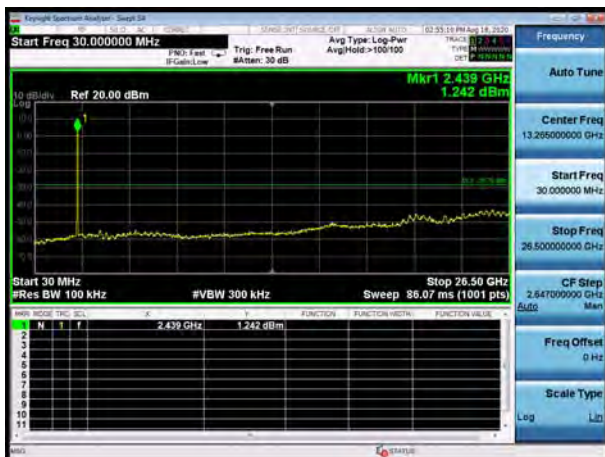
802.11ax (HE40), Channel No. 5
52-Tones



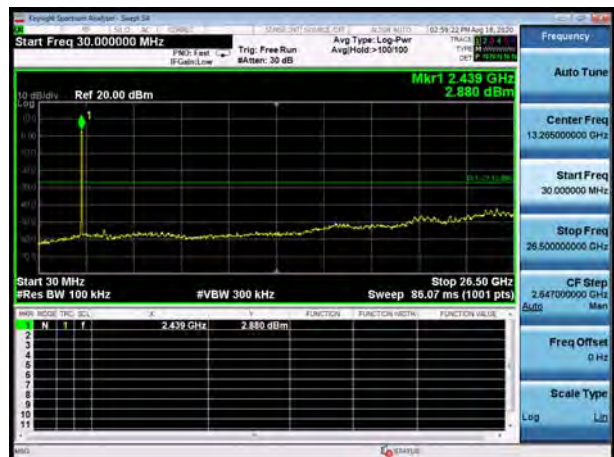
802.11ax (HE40), Channel No. 6
52-Tones



802.11ax (HE40), Channel No. 8
52-Tones

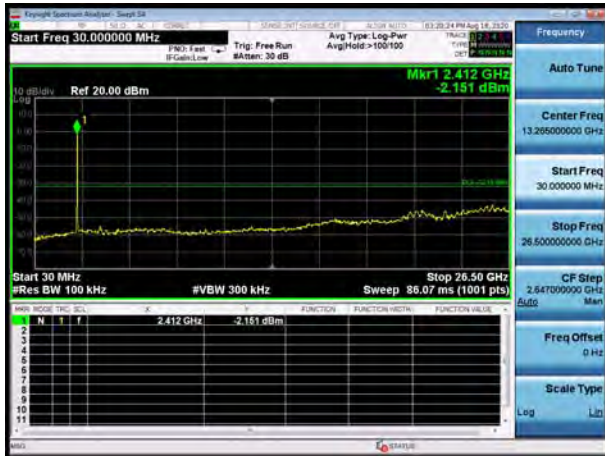


802.11ax (HE40), Channel No. 9
52-Tones

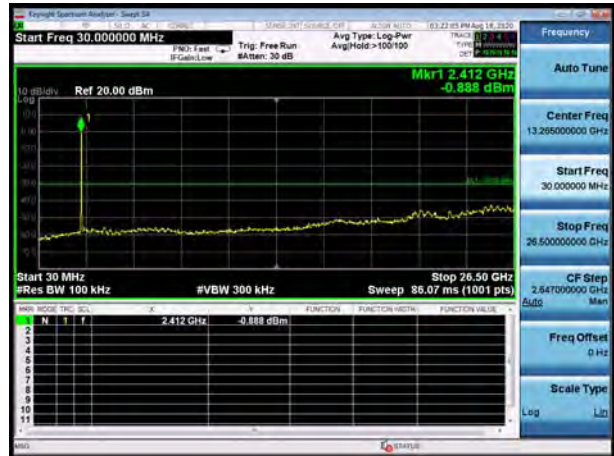




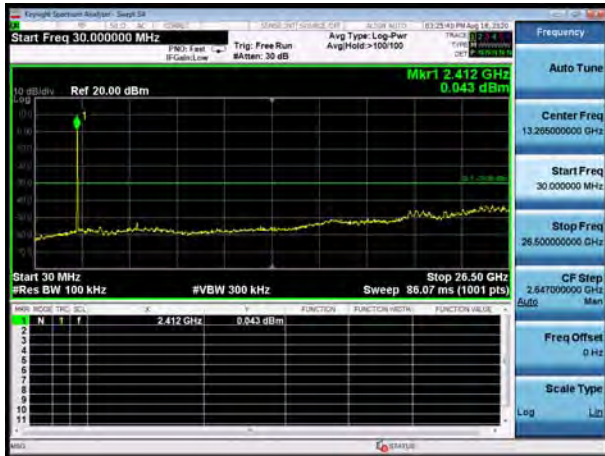
802.11ax (HE40), Channel No. 3
106-Tones



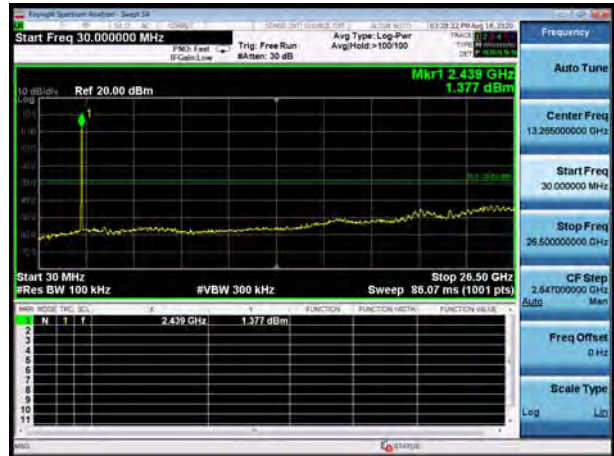
802.11ax (HE40), Channel No. 4
106-Tones



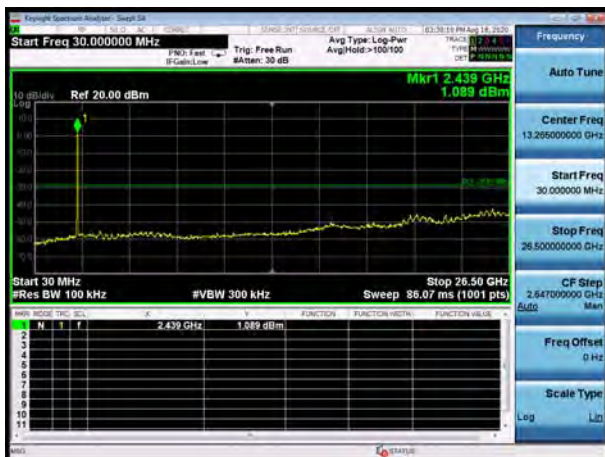
802.11ax (HE40), Channel No. 5
106-Tones



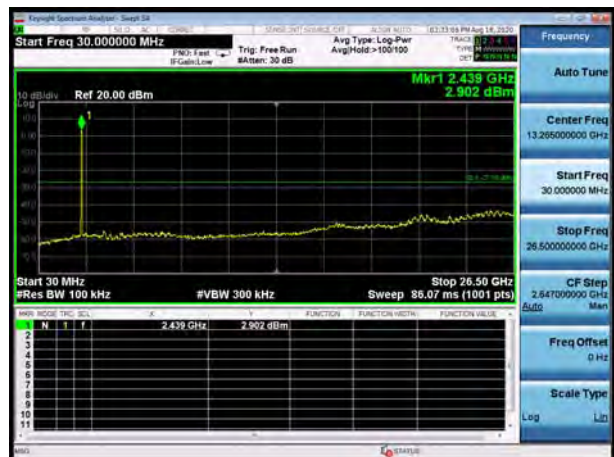
802.11ax (HE40), Channel No. 6
106-Tones



802.11ax (HE40), Channel No. 8
106-Tones

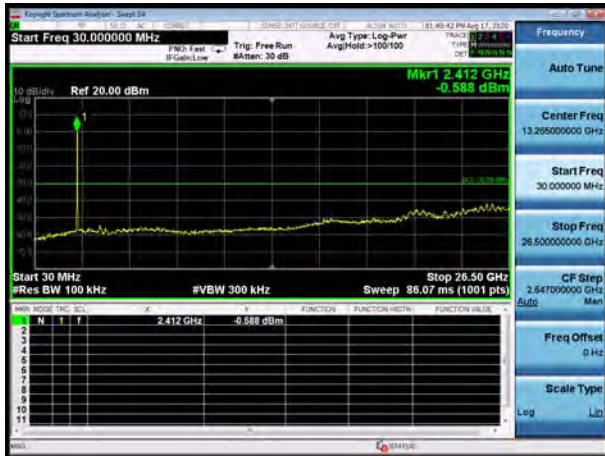


802.11ax (HE40), Channel No. 9
106-Tones

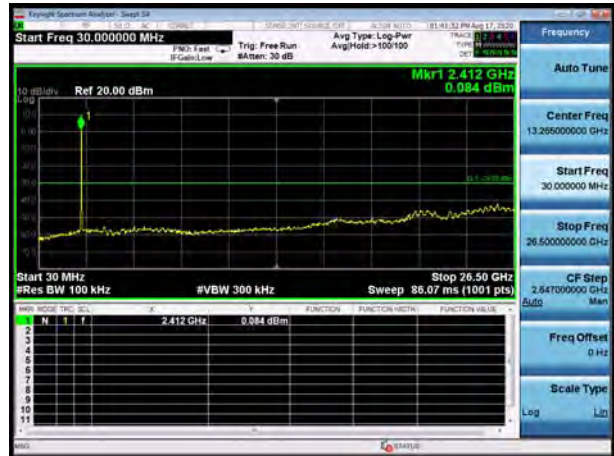




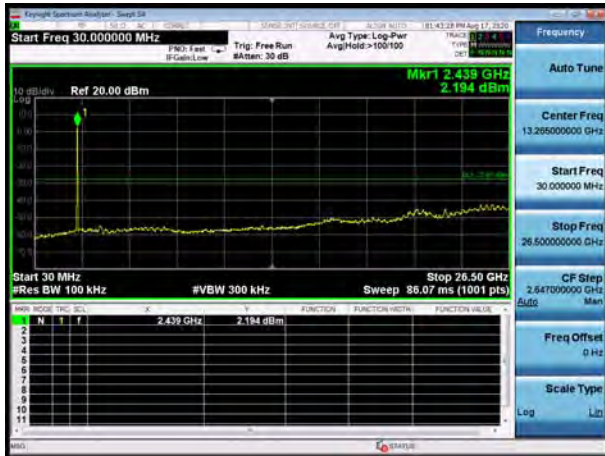
802.11ax (HE40), Channel No. 3
242-Tones



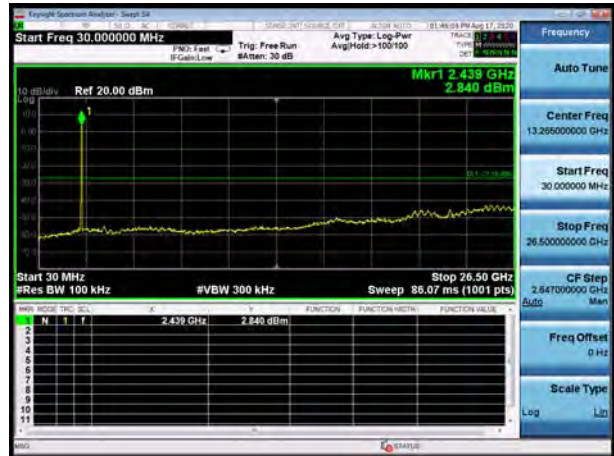
802.11ax (HE40), Channel No. 4
242-Tones



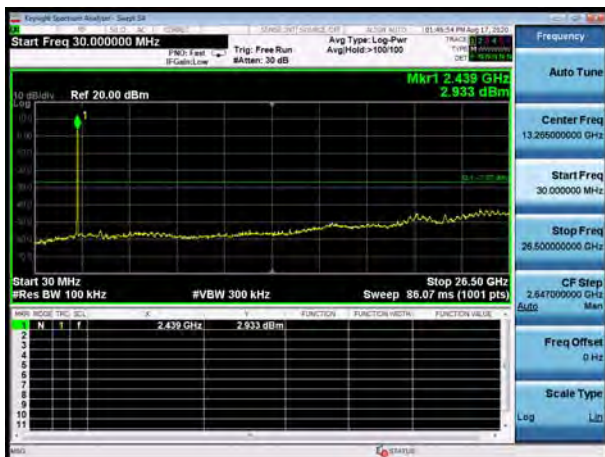
802.11ax (HE40), Channel No. 5
242-Tones



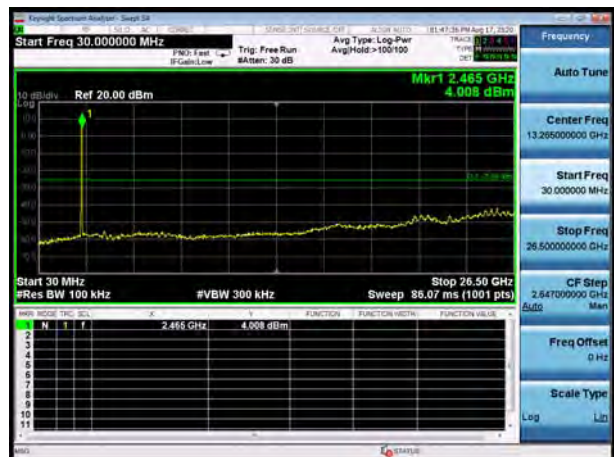
802.11ax (HE40), Channel No. 6
242-Tones



802.11ax (HE40), Channel No. 8
242-Tones

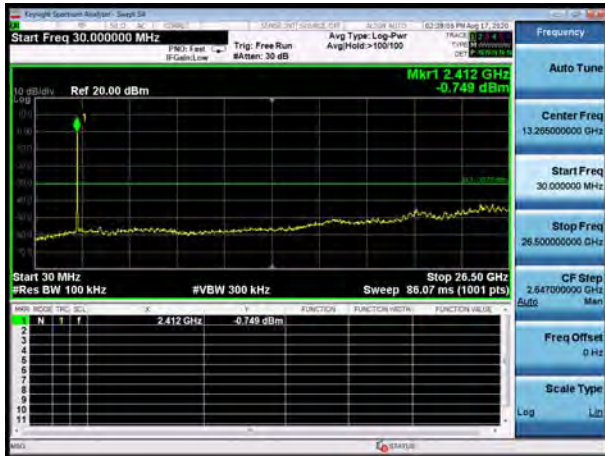


802.11ax (HE40), Channel No. 9
242-Tones

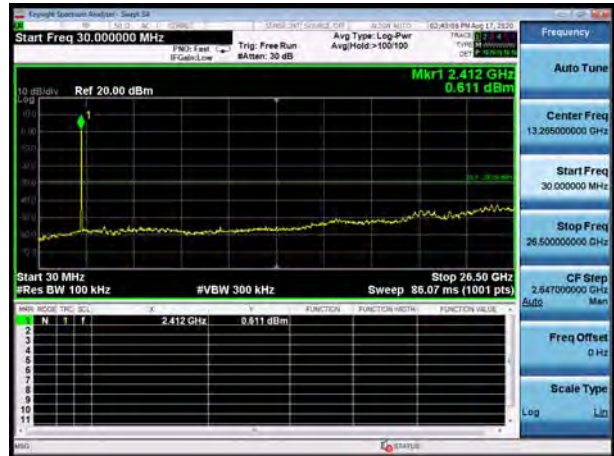




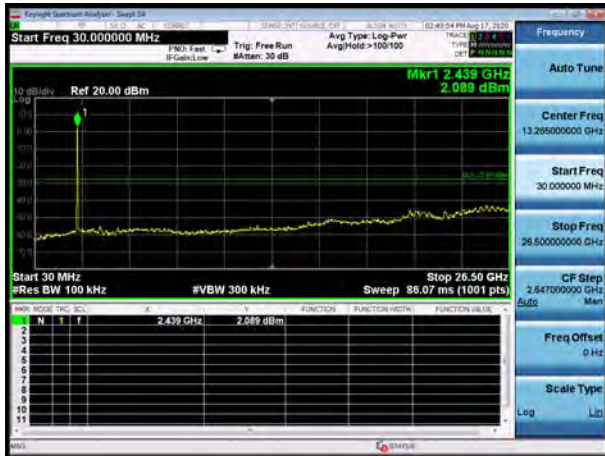
802.11ax (HE40), Channel No. 3
484-Tones



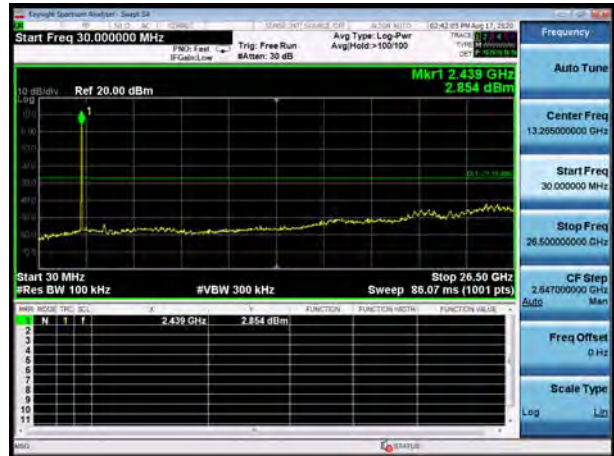
802.11ax (HE40), Channel No. 4
484-Tones



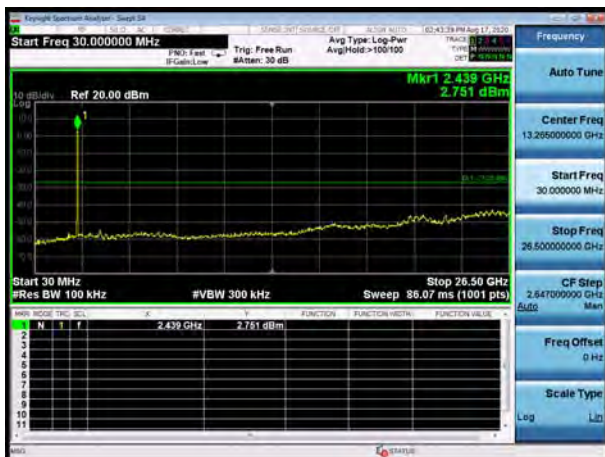
802.11ax (HE40), Channel No. 5
484-Tones



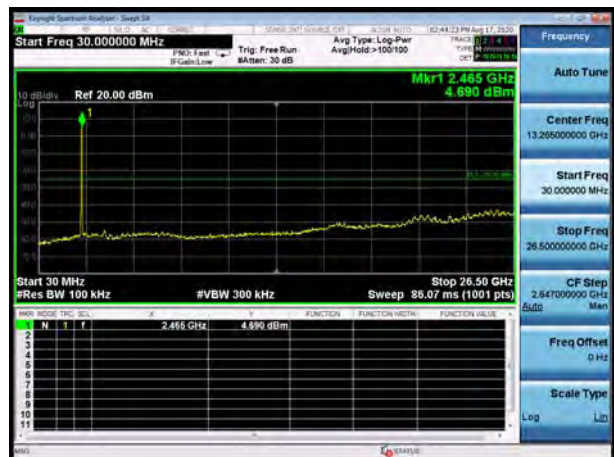
802.11ax (HE40), Channel No. 6
484-Tones



802.11ax (HE40), Channel No. 8
484-Tones



802.11ax (HE40), Channel No. 9
484-Tones

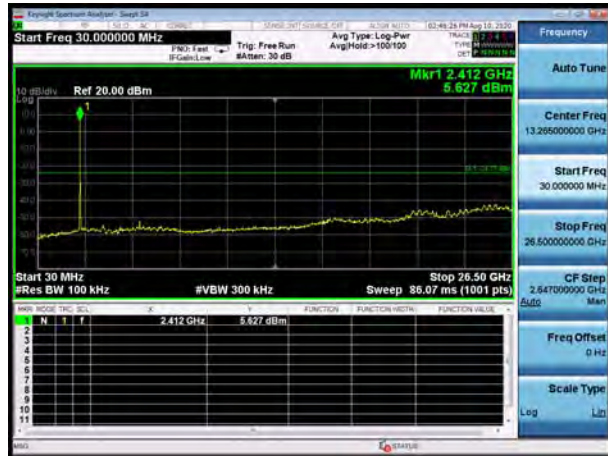




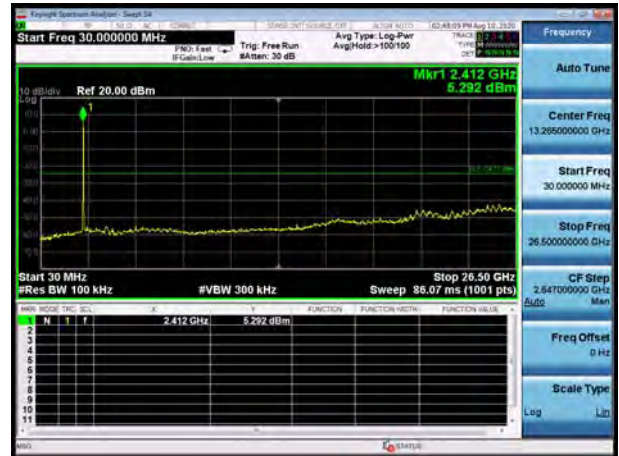
SU Mode

MIMO Antenna

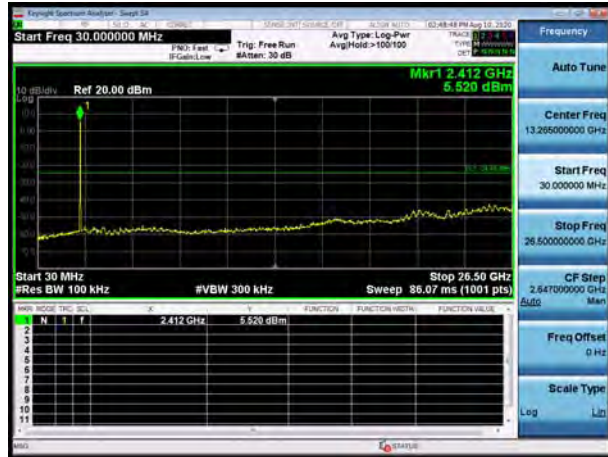
802.11ax (HE20), Channel No. 1



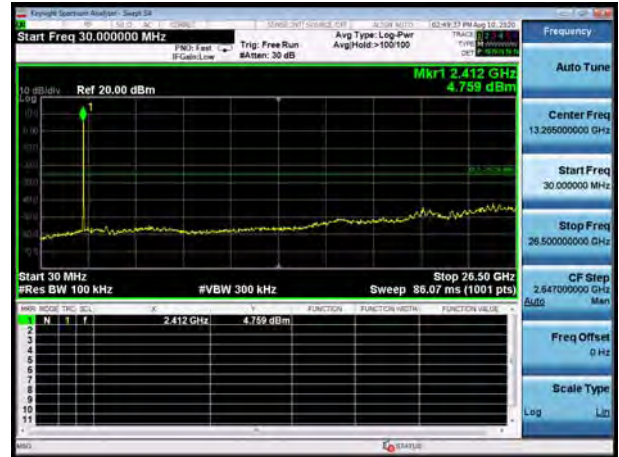
802.11ax (HE20), Channel No. 2



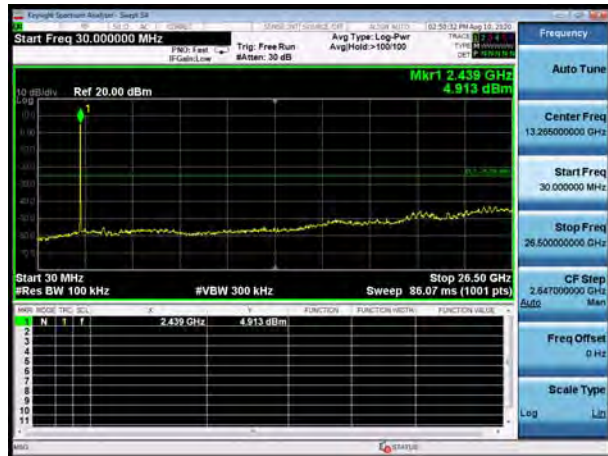
802.11ax (HE20), Channel No. 3



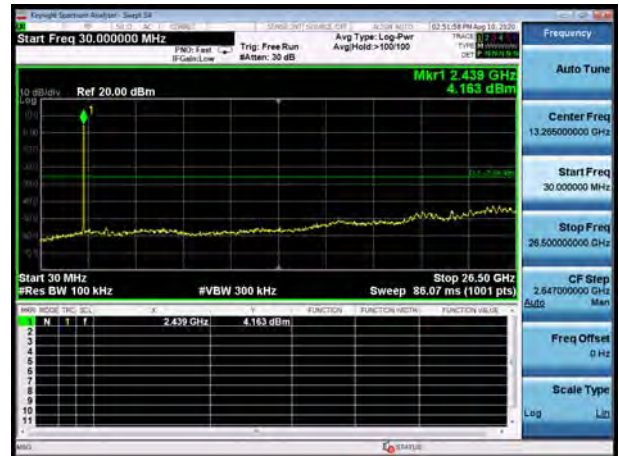
802.11ax (HE20), Channel No. 4



802.11ax (HE20), Channel No. 6

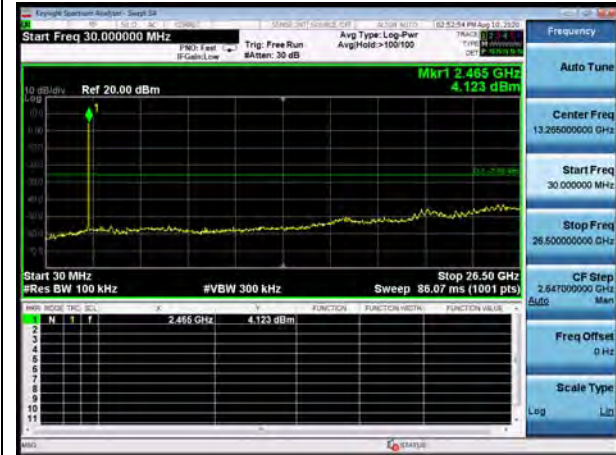


802.11ax (HE20), Channel No. 9

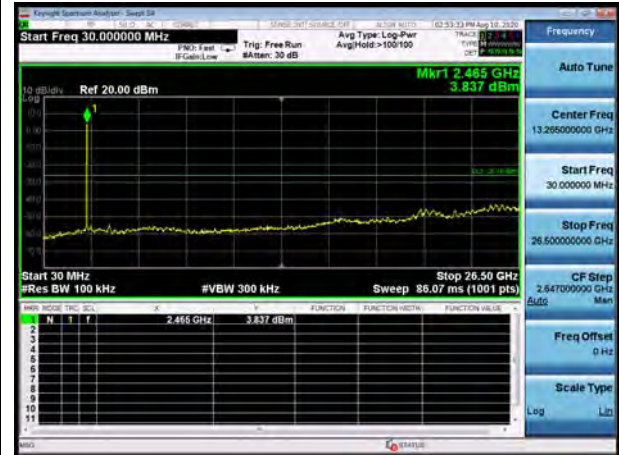




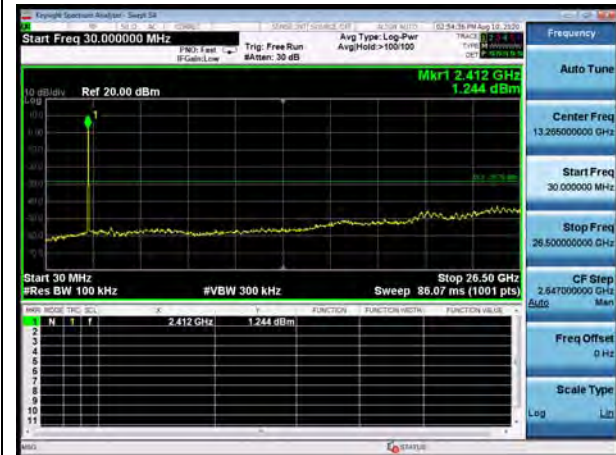
802.11ax (HE20), Channel No. 10



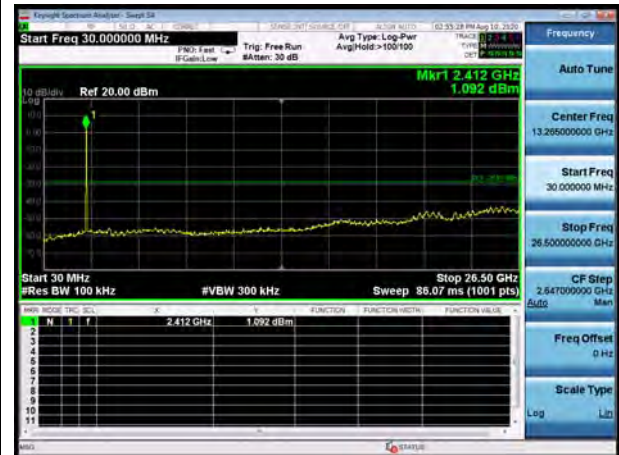
802.11ax (HE20), Channel No. 11



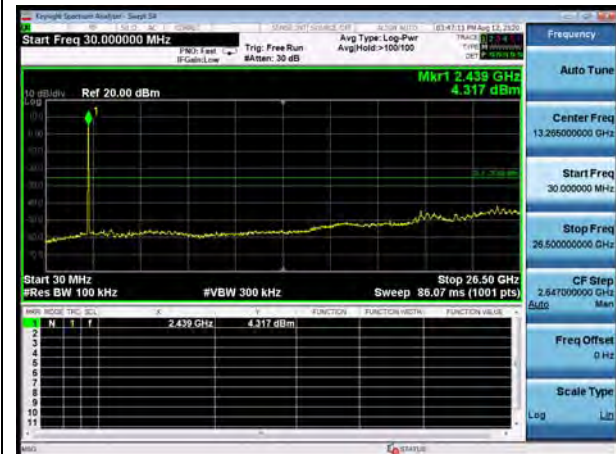
802.11ax (HE40), Channel No. 3



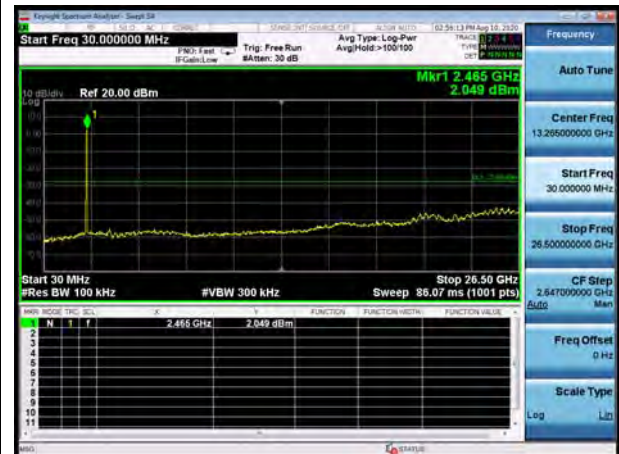
802.11ax (HE40), Channel No. 4



802.11ax (HE40), Channel No. 5

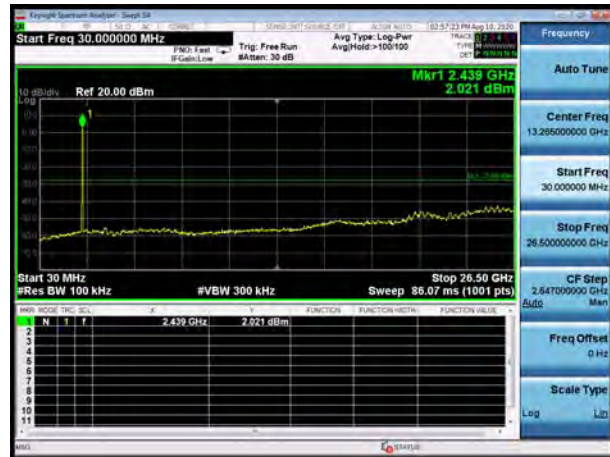


802.11ax (HE40), Channel No. 6

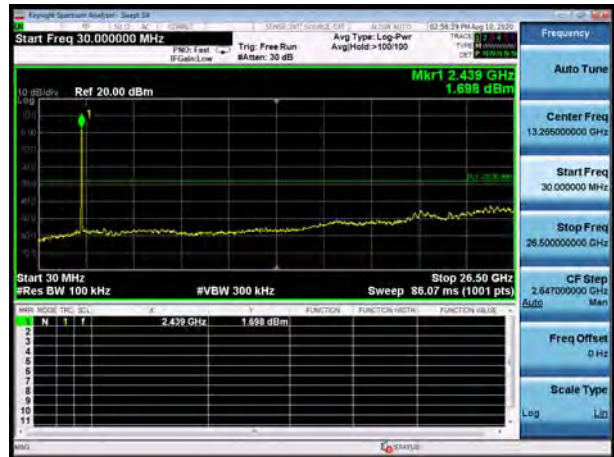




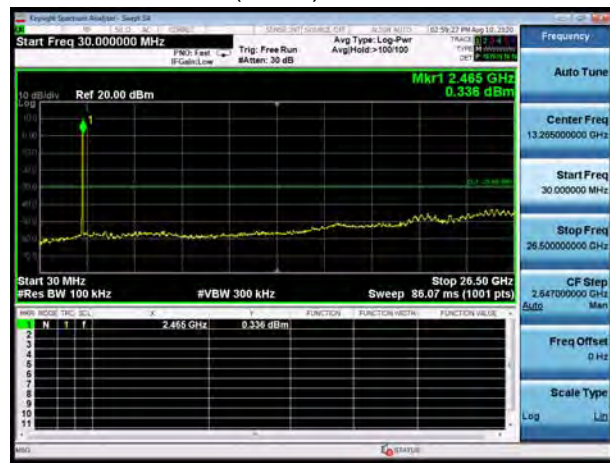
802.11ax (HE40), Channel No. 7



802.11ax (HE40), Channel No. 8



802.11ax (HE40), Channel No. 9



5.6. Unwanted Emission

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	102.5kPa

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10-2013. The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna.

The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing. Sweep the Restricted Band and the emissions less than 20 dB below the permissible value are reported.

The radiated emissions measurements were made in a typical installation configuration. Sweep the whole frequency band through the range from 9 kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

This method refer to ANSI C63.10-2013.

The procedure for peak unwanted emissions measurements above 1000 MHz is as follows:

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

- 1) RBW = 1 MHz.
- 2) VBW \geq [3 \times RBW]
- 3) Detector = peak.
- 4) Sweep time = auto.
- 5) Trace mode = max hold.
- 6) Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, then the time required for the trace to stabilize will increase by a factor of approximately 1 / D, where D is the duty cycle.

II) Average emission levels are measured by setting the instrument as follows:

- a) RBW = 1 MHz.
- b) VBW \geq [3 \times RBW].
- c) Detector = RMS (power averaging), if [span / (# of points in sweep)] \leq RBW / 2. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
- d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage



averaging. Log or dB averaging shall not be used.)

e) Sweep time = auto.

f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of $1 / D$, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)

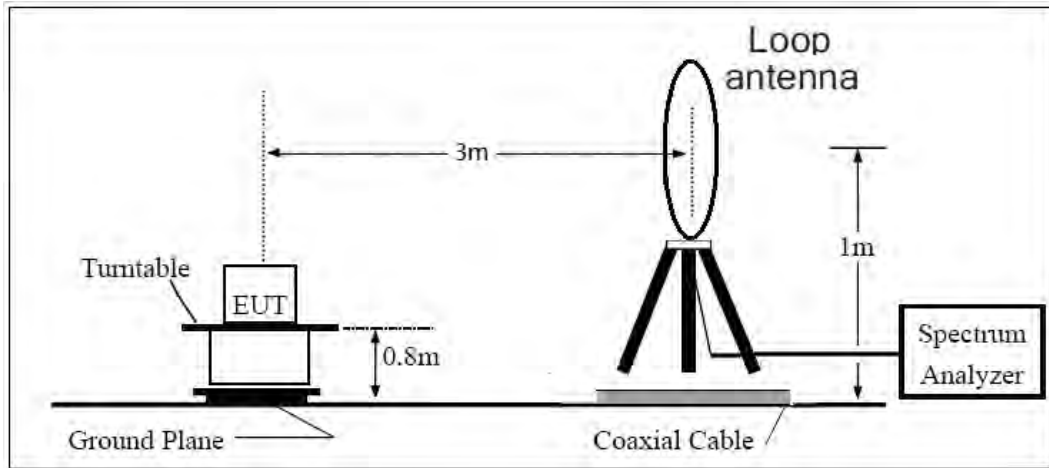
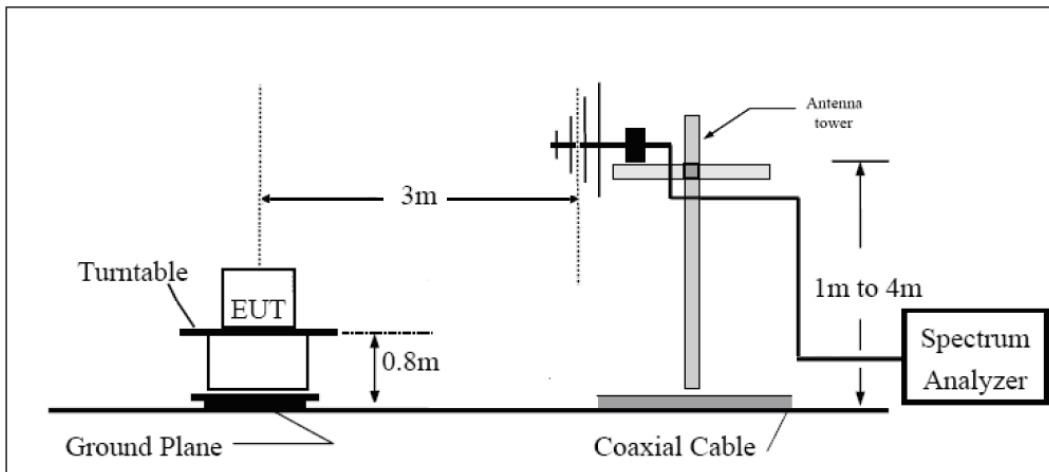
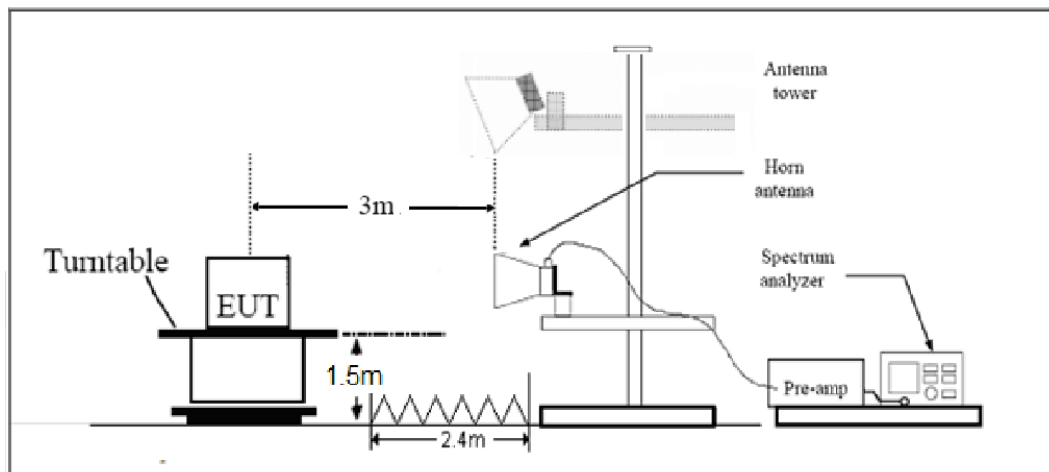
g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is $[10 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.

2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is $[20 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

The test is in transmitting mode.

Test setup**9KHz ~ 30MHz****30MHz ~ 1GHz****Above 1GHz**

Note: Area side:2.4mX3.6m

**Limits**

Rule Part 15.247(d) specifies that "In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c))."

Limit in restricted band

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
0.009–0.490	2400/F(kHz)	/
0.490–1.705	24000/F(kHz)	/
1.705–30.0	30	/
30-88	100	40
88-216	150	43.5
216-960	200	46
Above960	500	54

§15.35(b)

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

Peak Limit=74 dBuV/m

Average Limit=54 dBuV/m

Spurious Radiated Emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

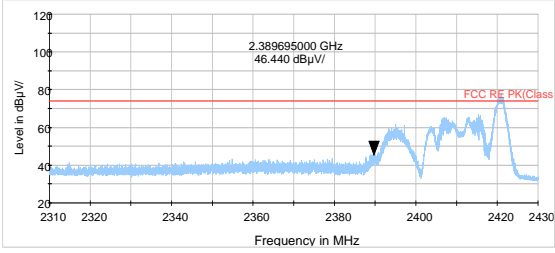
**Measurement Uncertainty**

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

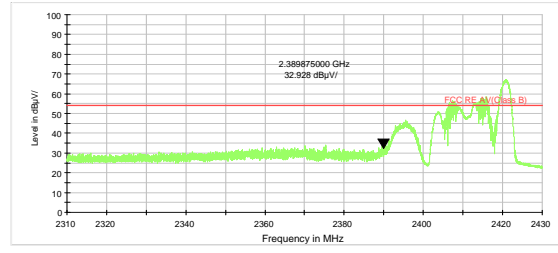
Frequency	Uncertainty
9KHz-30MHz	3.55 dB
30MHz-200MHz	4.02 dB
200MHz-1GHz	3.28 dB
1-18GHz	3.70 dB
18-26.5GHz	5.78 dB



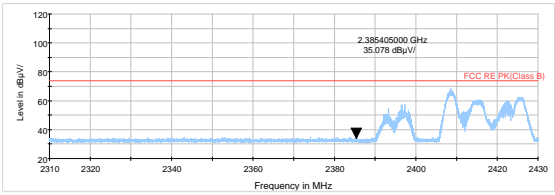
Test Results:
MIMO Antenna
TB Mode



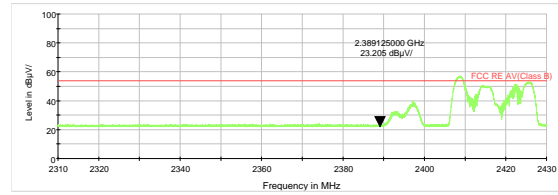
802.11ax HE20 -Channel 1 Peak 26-Tones



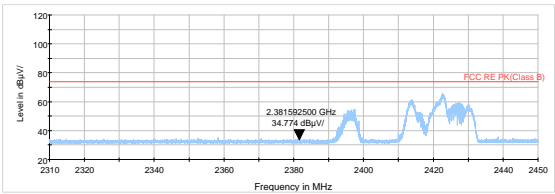
802.11ax HE20 -Channel 1 Average 26-Tones



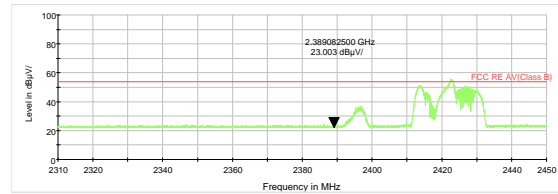
802.11ax HE20 -Channel 2 Peak 26-Tones



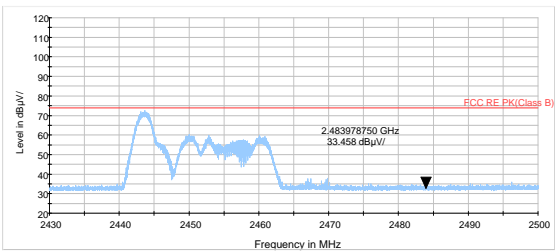
802.11ax HE20 -Channel 2 Average 26-Tones



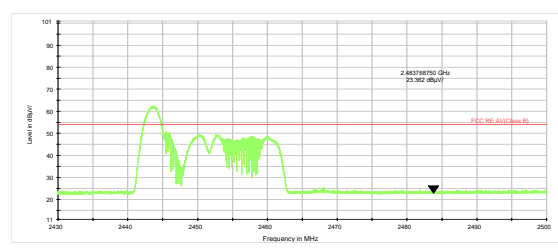
802.11ax HE20 -Channel 3 Peak 26-Tones



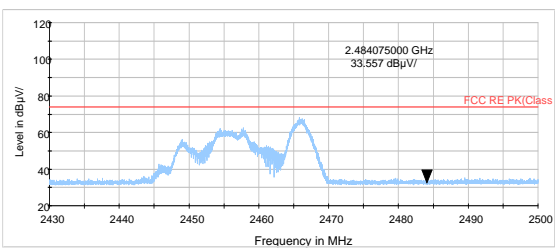
802.11ax HE20 -Channel 3 Average 26-Tones



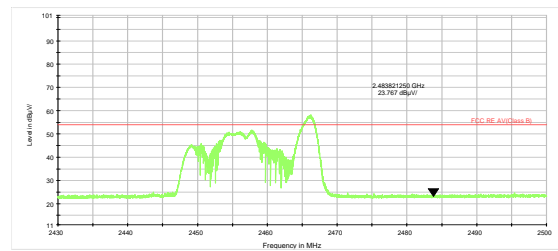
802.11ax HE20 -Channel 9 Peak 26-Tones



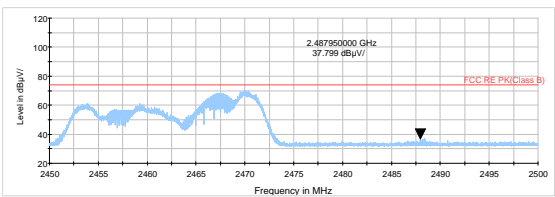
802.11ax HE20 -Channel 9 Average 26-Tones



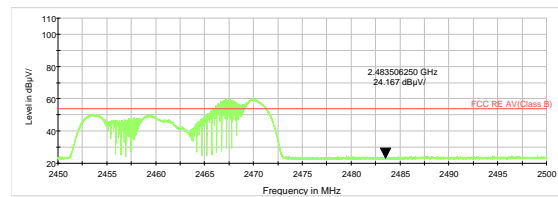
802.11ax HE20 -Channel 10 Peak 26-Tones



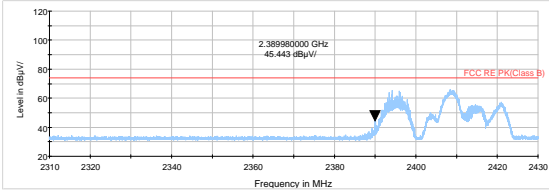
802.11ax HE20 -Channel 10 Average 26-Tones



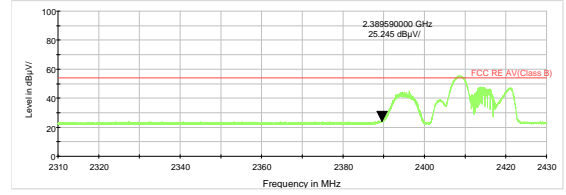
802.11ax HE20 -Channel 11 Peak 26-Tones



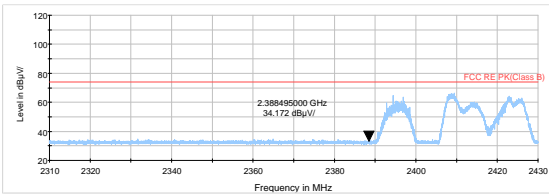
802.11ax HE20 -Channel 11 Average 26-Tones



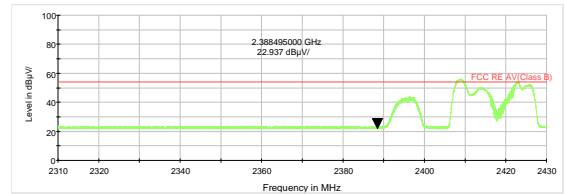
802.11ax HE20 -Channel 1 Peak 52-Tones



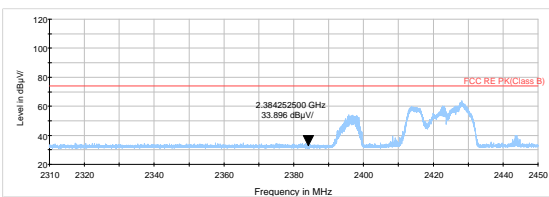
802.11ax HE20 -Channel 1 Average 52-Tones



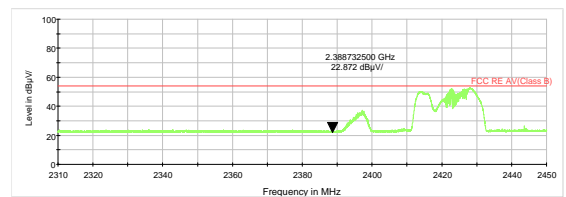
802.11ax HE20 -Channel 2 Peak 52-Tones



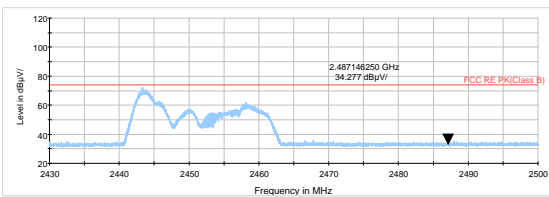
802.11ax HE20 -Channel 2 Average 52-Tones



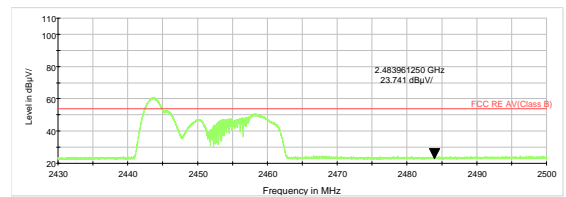
802.11ax HE20 -Channel 3 Peak 52-Tones



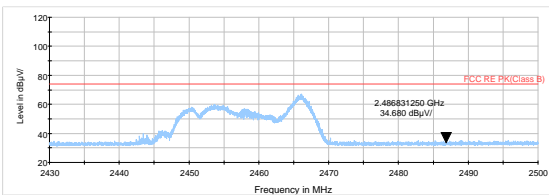
802.11ax HE20 -Channel 3 Average 52-Tones



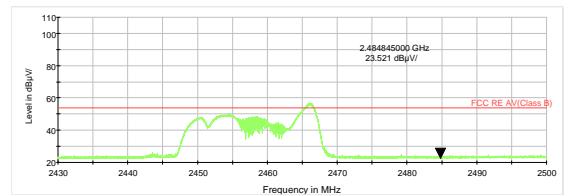
802.11ax HE20 -Channel 9 Peak 52-Tones



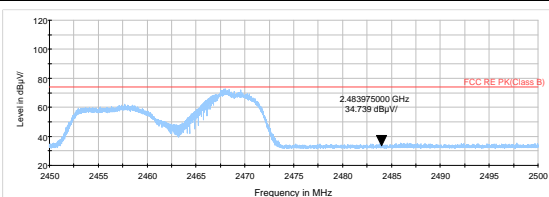
802.11ax HE20 -Channel 9 Average 52-Tones



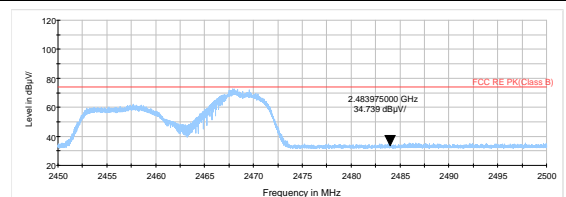
802.11ax HE20 -Channel 10 Peak 52-Tones



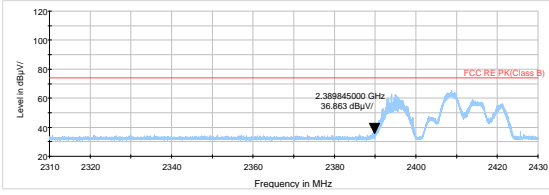
802.11ax HE20 -Channel 10 Average 52-Tones



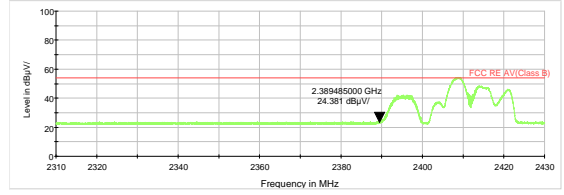
802.11ax HE20 -Channel 11 Peak 52-Tones



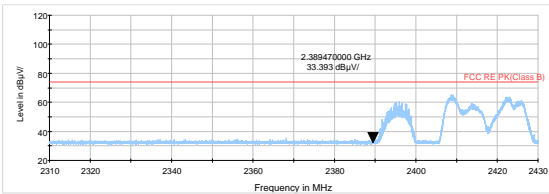
802.11ax HE20 -Channel 11 Average 52-Tones



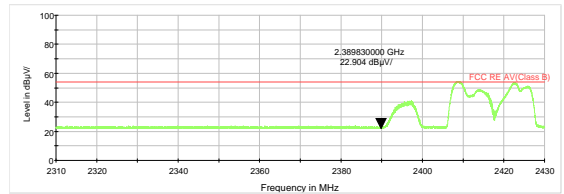
802.11ax HE20 -Channel 1 Peak 106-Tones



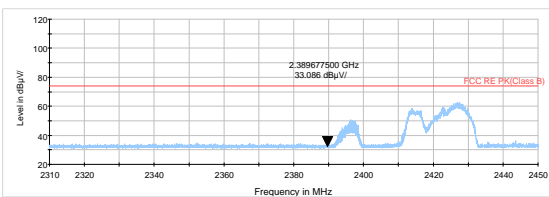
802.11ax HE20 -Channel 1 Average 106-Tones



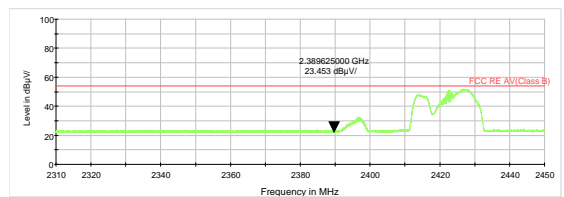
802.11ax HE20 -Channel 2 Peak 106-Tones



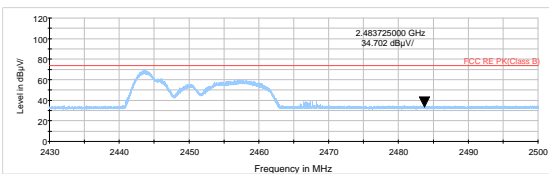
802.11ax HE20 -Channel 2 Average 106-Tones



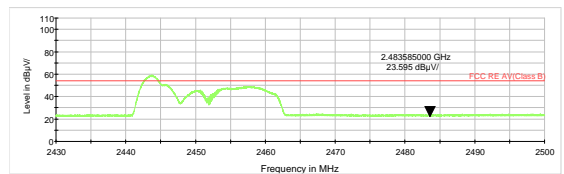
802.11ax HE20 -Channel 3 Peak 106-Tones



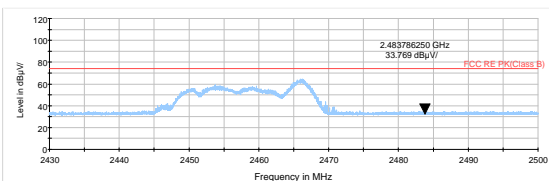
802.11ax HE20 -Channel 3 Average 106-Tones



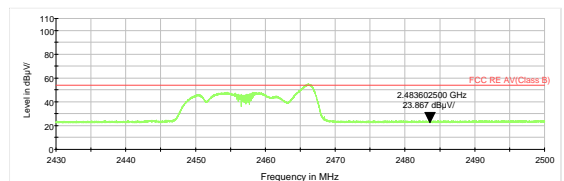
802.11ax HE20 -Channel 9 Peak 106-Tones



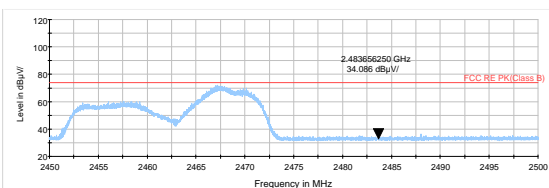
802.11ax HE20 -Channel 9 Average 106-Tones



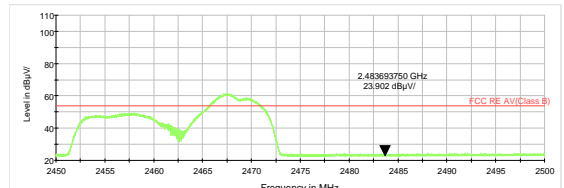
802.11ax HE20 -Channel 10 Peak 106-Tones



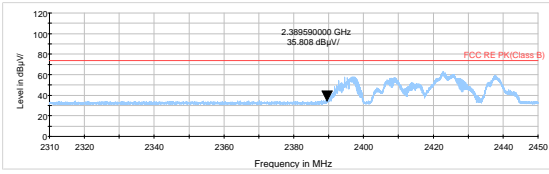
802.11ax HE20 -Channel 10 Average 106-Tones



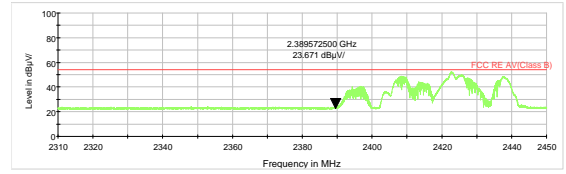
802.11ax HE20 -Channel 11 Peak 106-Tones



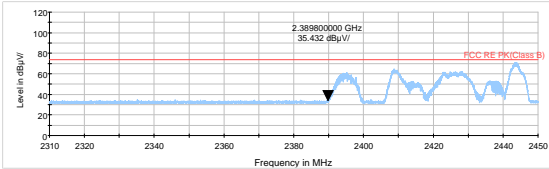
802.11ax HE20 -Channel 11 Average 106-Tones



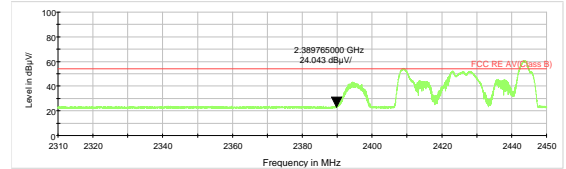
802.11ax HE40 –Channel 3 Peak 52-Tones



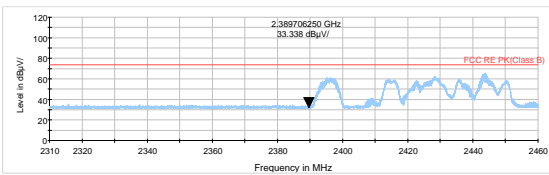
802.11ax HE40 -Channel 3 Average 52-Tones



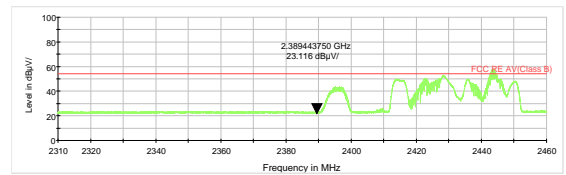
802.11ax HE40 –Channel 4 Peak 52-Tones



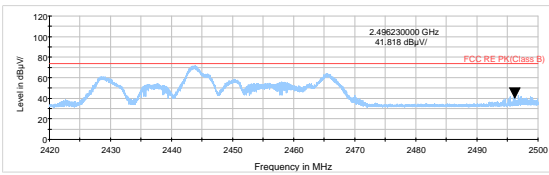
802.11ax HE40 -Channel 4 Average 52-Tones



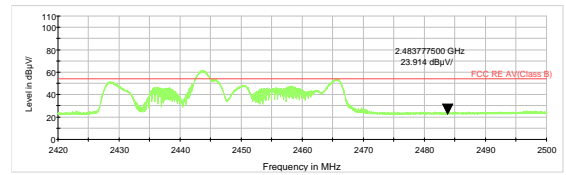
802.11ax HE40 –Channel 5 Peak 52-Tones



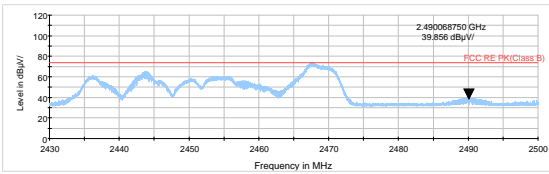
802.11ax HE40 -Channel 5 Average 52-Tones



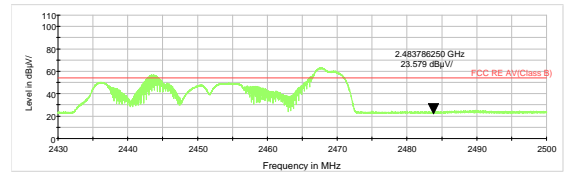
802.11ax HE40 –Channel 8 Peak 52-Tones



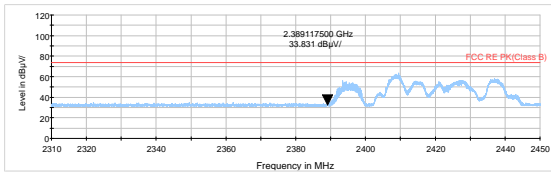
802.11ax HE40 -Channel 8 Average 52-Tones



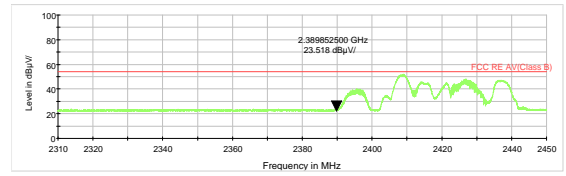
802.11ax HE40 –Channel 9 Peak 52-Tones



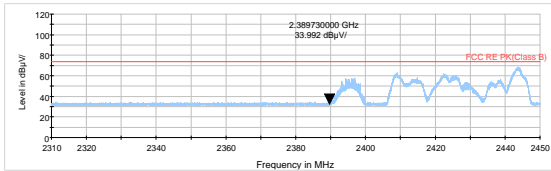
802.11ax HE40 -Channel 9 Average 52-Tones



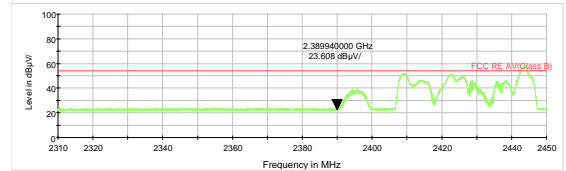
802.11ax HE40 -Channel 3 Peak 106-Tones



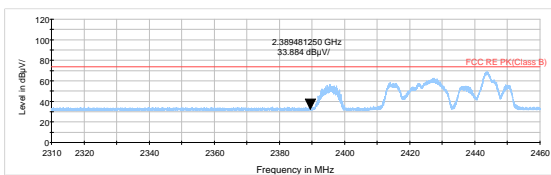
802.11ax HE40 -Channel 3 Average 106-Tones



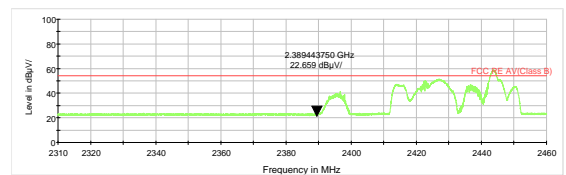
802.11ax HE40 -Channel 4 Peak 106-Tones



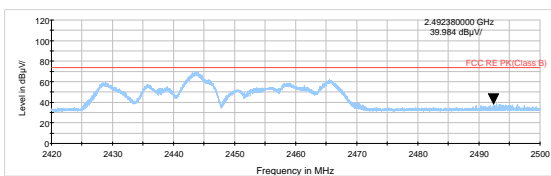
802.11ax HE40 -Channel 4 Average 106-Tones



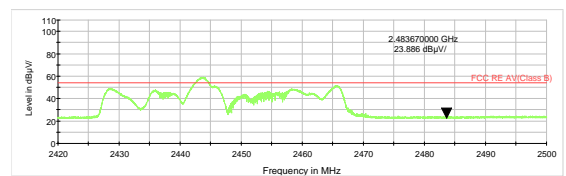
802.11ax HE40 -Channel 5 Peak 106-Tones



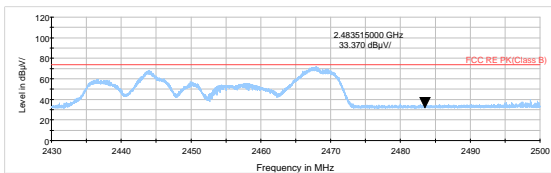
802.11ax HE40 -Channel 5 Average 106-Tones



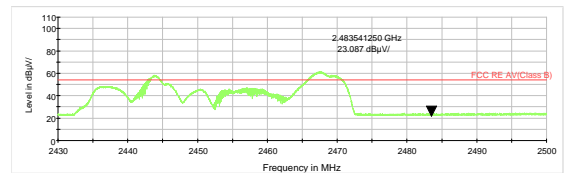
802.11ax HE40 -Channel 8 Peak 106-Tones



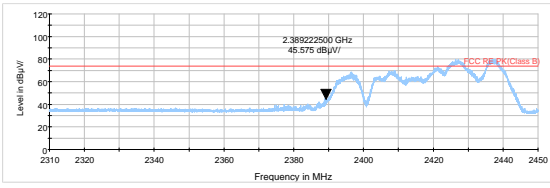
802.11ax HE40 -Channel 8 Average 106-Tones



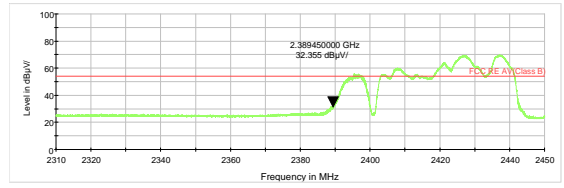
802.11ax HE40 -Channel 9 Peak 106-Tones



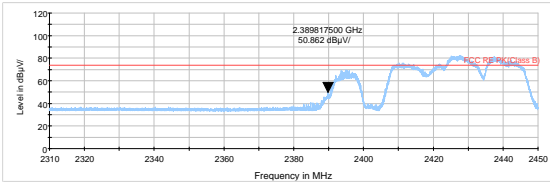
802.11ax HE40 -Channel 9 Average 106-Tones



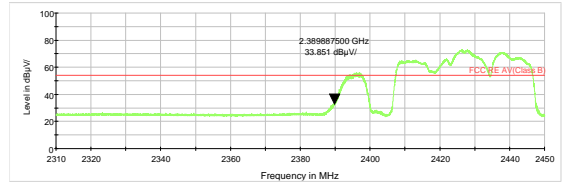
802.11ax HE40 –Channel 3 Peak 242-Tones



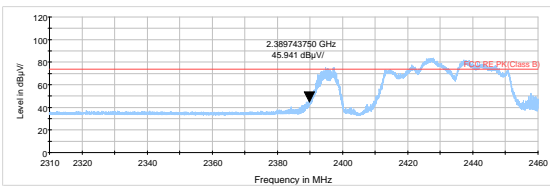
802.11ax HE40 -Channel 3 Average 242-Tones



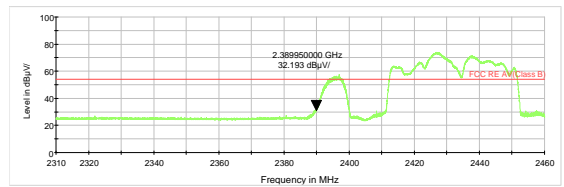
802.11ax HE40 –Channel 4 Peak 242-Tones



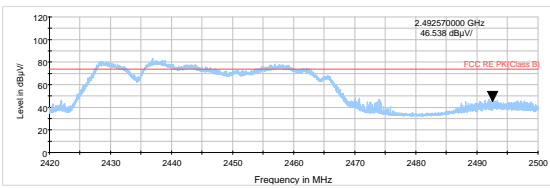
802.11ax HE40 -Channel 4 Average 242-Tones



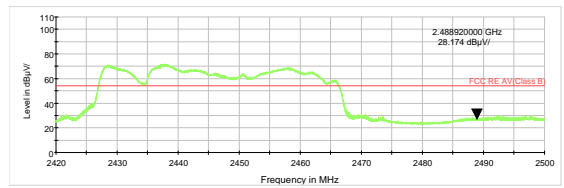
802.11ax HE40 –Channel 5 Peak 242-Tones



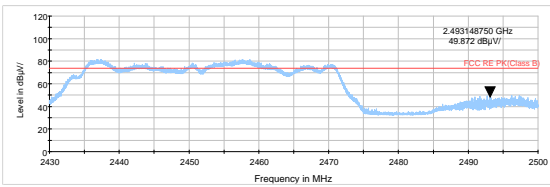
802.11ax HE40 -Channel 5 Average 242-Tones



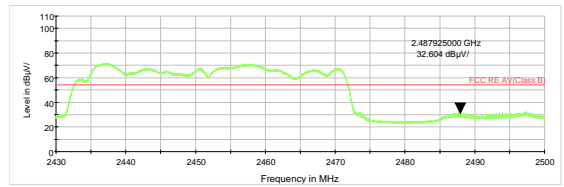
802.11ax HE40 –Channel 8 Peak 242-Tones



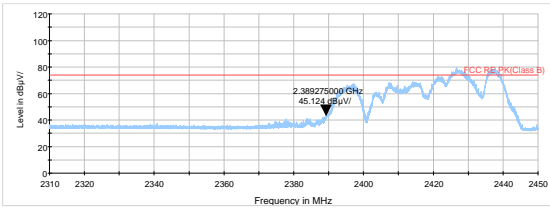
802.11ax HE40 -Channel 8 Average 242-Tones



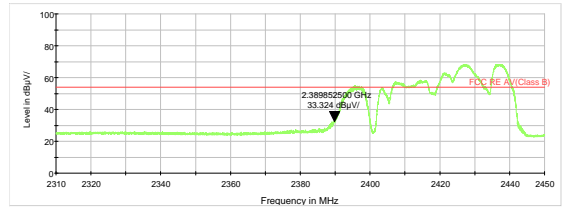
802.11ax HE40 –Channel 9 Peak 242-Tones



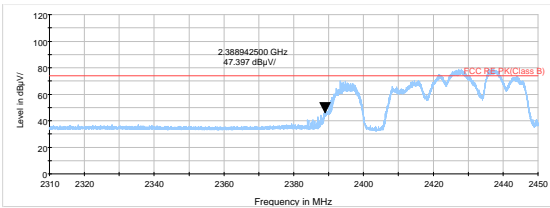
802.11ax HE40 -Channel 9 Average 242-Tones



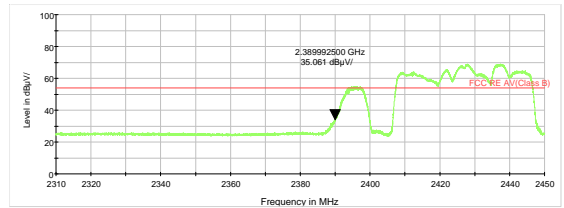
802.11ax HE40 -Channel 3 Peak 484-Tones



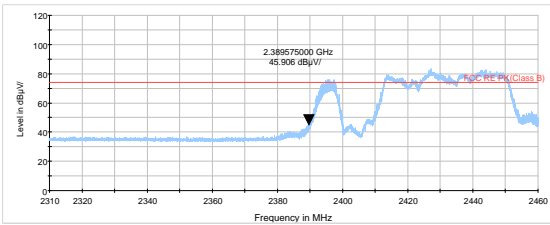
802.11ax HE40 -Channel 3 Average 484-Tones



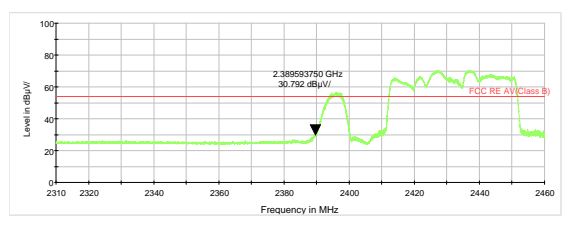
802.11ax HE40 -Channel 4 Peak 484-Tones



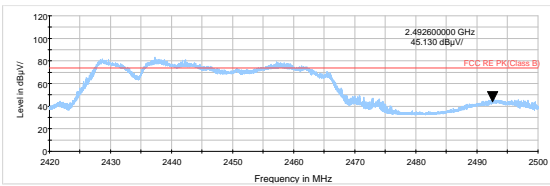
802.11ax HE40 -Channel 4 Average 484-Tones



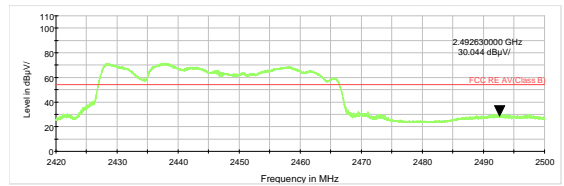
802.11ax HE40 -Channel 5 Peak 484-Tones



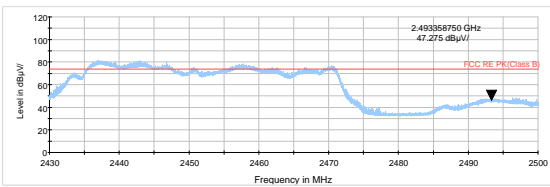
802.11ax HE40 -Channel 5 Average 484-Tones



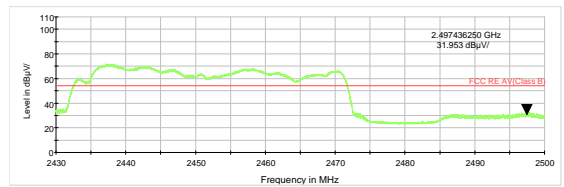
802.11ax HE40 -Channel 8 Peak 484-Tones



802.11ax HE40 -Channel 8 Average 484-Tones



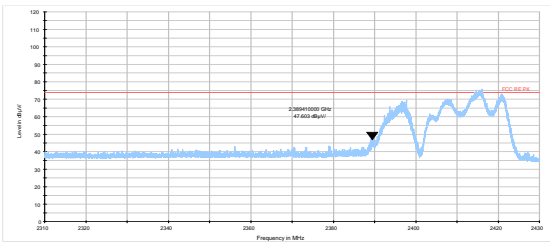
802.11ax HE40 -Channel 9 Peak 484-Tones



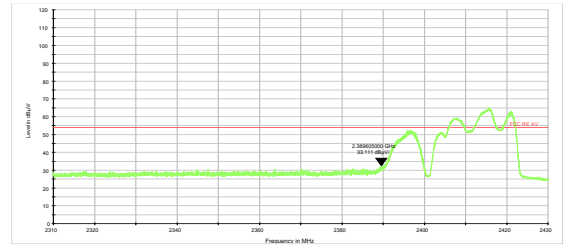
802.11ax HE40 -Channel 9 Average 484-Tones



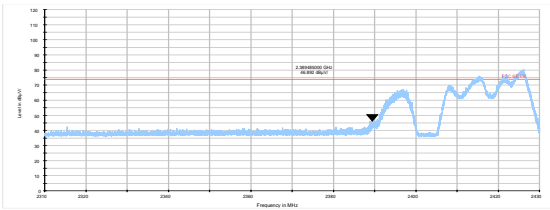
SU Mode



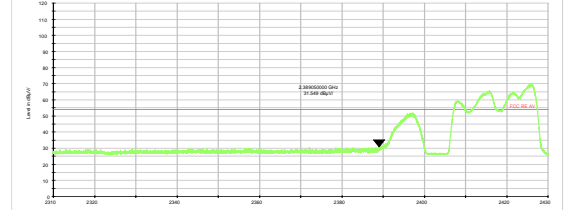
802.11ax HE20 -Channel 1



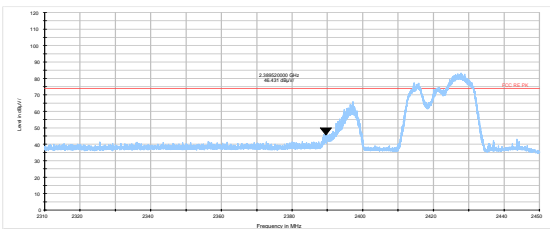
802.11ax HE20 -Channel 1 Average



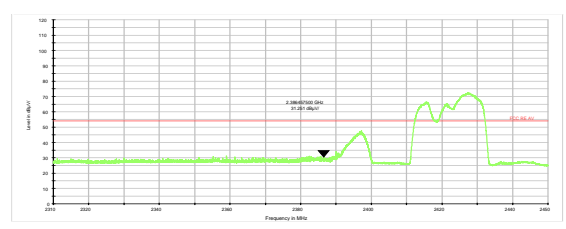
802.11ax HE20 -Channel 2 Peak



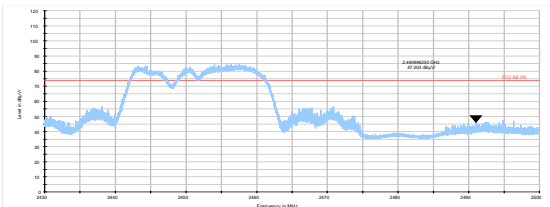
802.11ax HE20 -Channel 2 Average



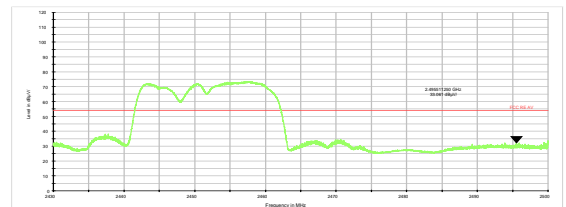
802.11ax HE20 -Channel 3 Peak



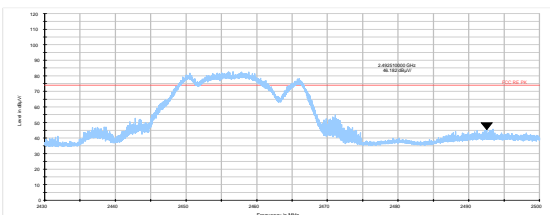
802.11ax HE20 -Channel 3 Average



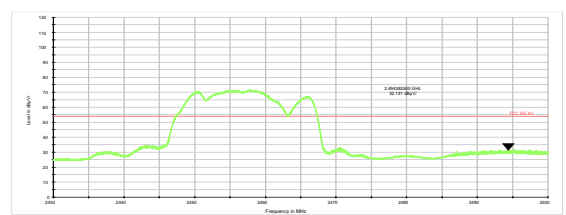
802.11ax HE20 -Channel 9 Peak



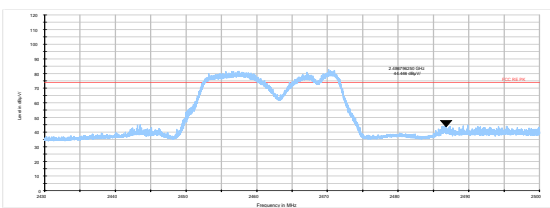
802.11ax HE20 -Channel 9 Average



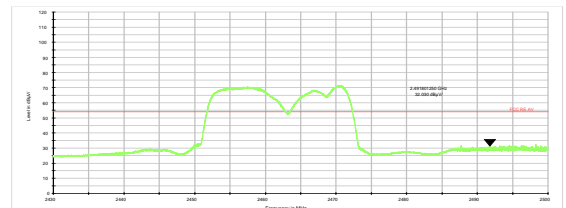
802.11ax HE20 -Channel 10 Peak



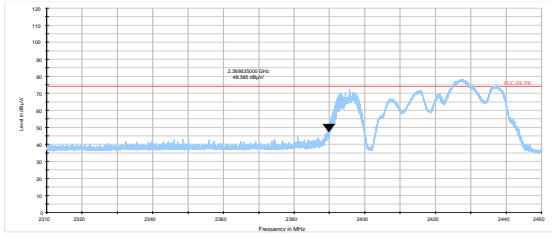
802.11ax HE20 -Channel 10 Average



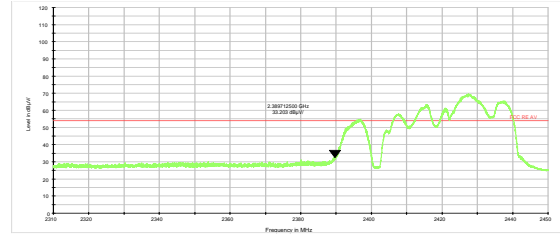
802.11ax HE20 -Channel 11 Peak



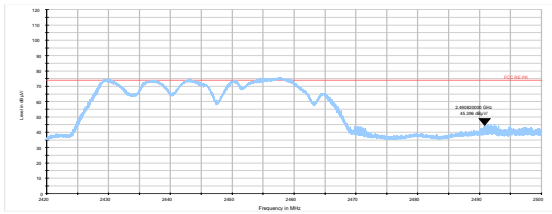
802.11ax HE20 -Channel 11 Average



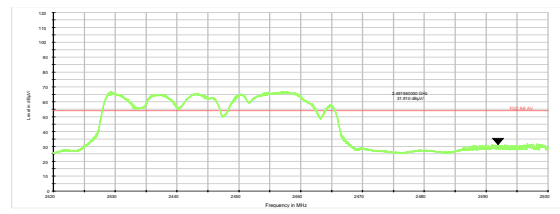
802.11ax HE40 -Channel 3 Peak



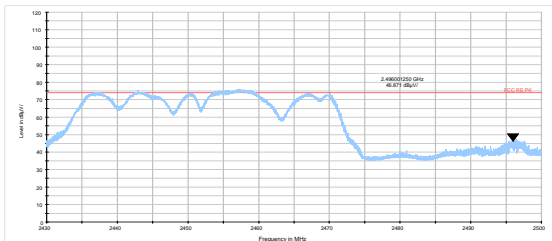
802.11ax HE40 -Channel 3 Average



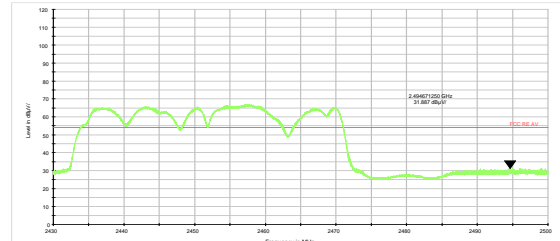
802.11ax HE40 -Channel 8 Peak



802.11ax HE40 -Channel 8 Average



802.11ax HE40 -Channel 9 Peak



802.11ax HE40 -Channel 9 Average



Result of RE

Test result

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the Emissions in the frequency band 9kHz-30MHz and 18GHz-26.5GHz are more than 20dB below the limit are not reported.

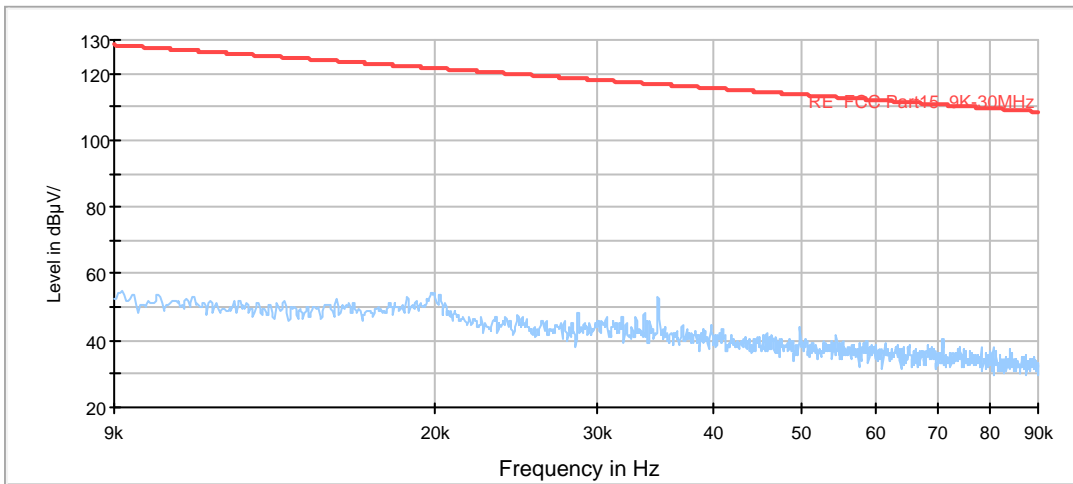
The following graphs display the maximum values of horizontal and vertical by software. For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.

After the pretest, MIMO Antenna was selected as the worst antenna.

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, SU mode, 802.11ax (HE20) CH4 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

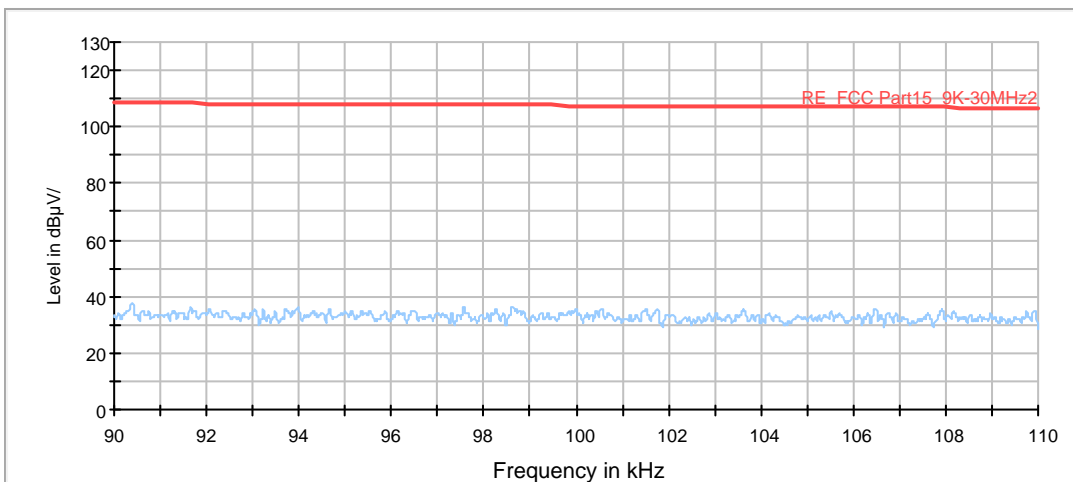
Continuous TX mode:

FCC RE 9K-90KHz AV



Radiates Emission from 9KHz to 90KHz

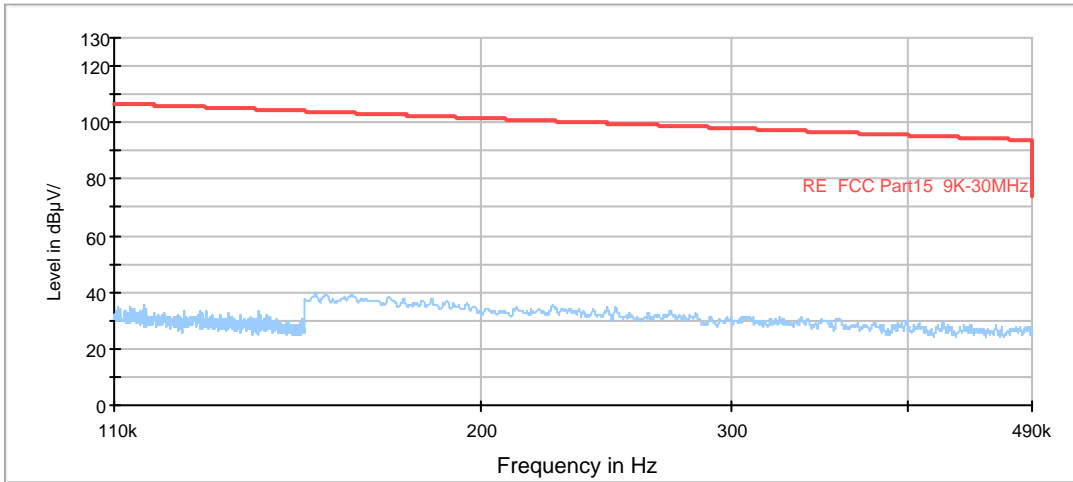
FCC RE 90K-110KHz QP



Radiates Emission from 90KHz to 110KHz

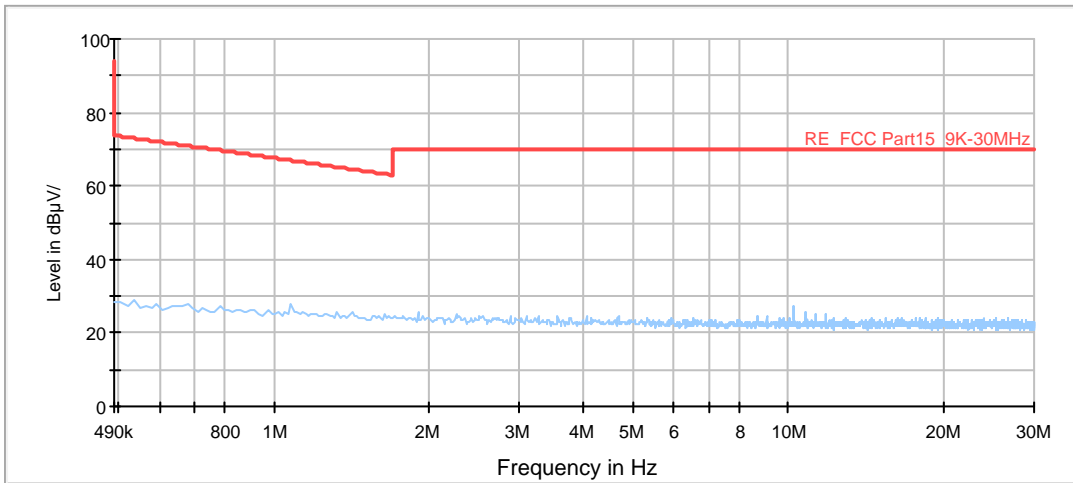


FCC RE 110K-490KHz AV

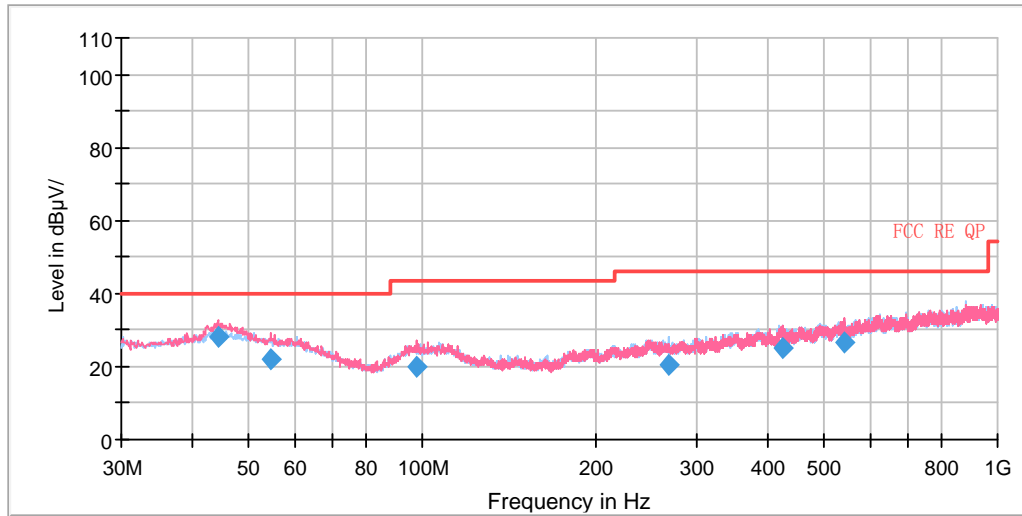


Radiates Emission from 110KHz to 490KHz

FCC RE 490K-30MHz QP



Radiates Emission from 490KHz to 30MHz



Radiates Emission from 30MHz to 1GHz

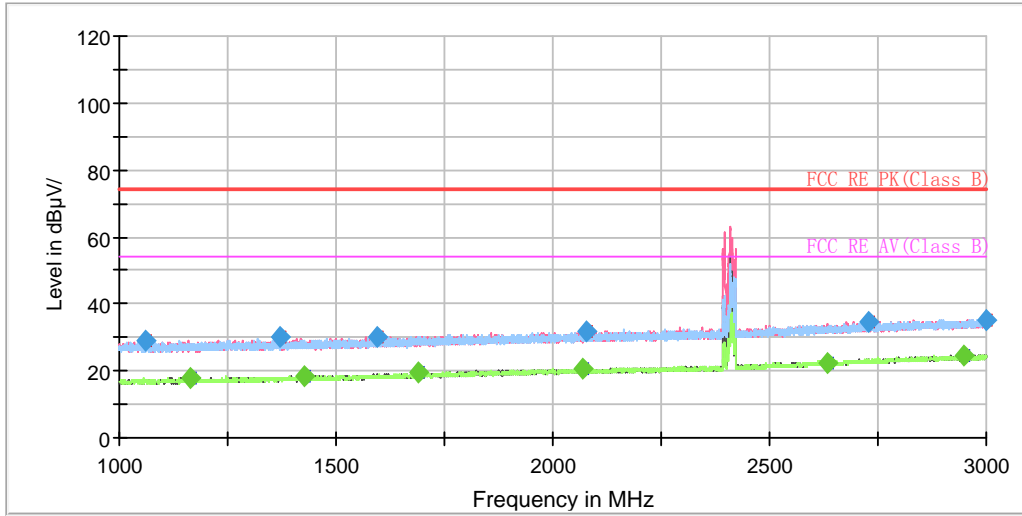
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
44.200500	28.02	100.0	V	335.0	0.0	11.98	40.00
54.574300	21.79	123.0	V	22.0	-1.4	18.21	40.00
97.428900	19.92	123.0	V	114.0	-4.9	23.58	43.50
268.137950	20.69	211.0	H	0.0	-4.3	25.31	46.00
423.758800	25.08	125.0	H	80.0	-0.2	20.92	46.00
540.040800	26.55	197.0	V	320.0	1.4	19.45	46.00

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

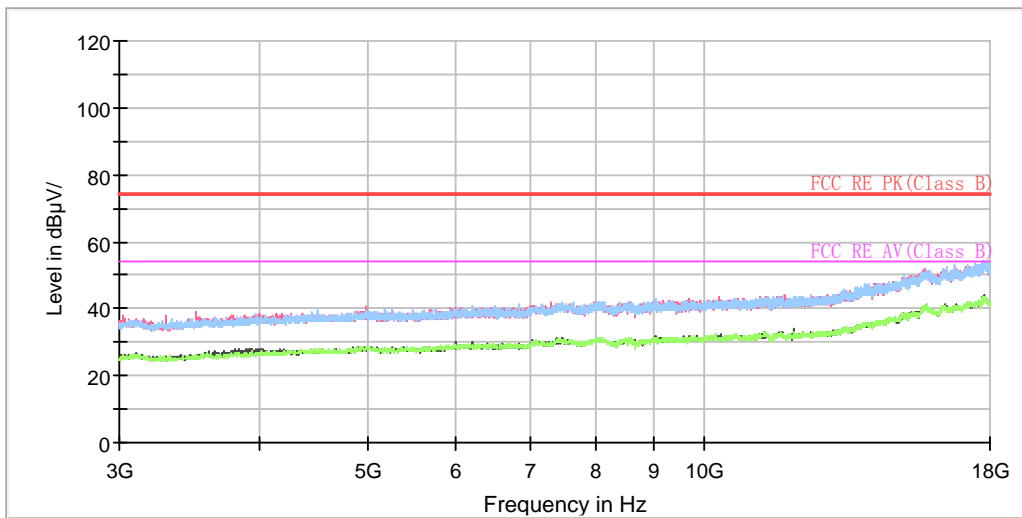
2. Margin = Limit – Quasi-Peak



MIMO Antenna
TB Mode
802.11ax (HE20) 26-Tones CH1



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



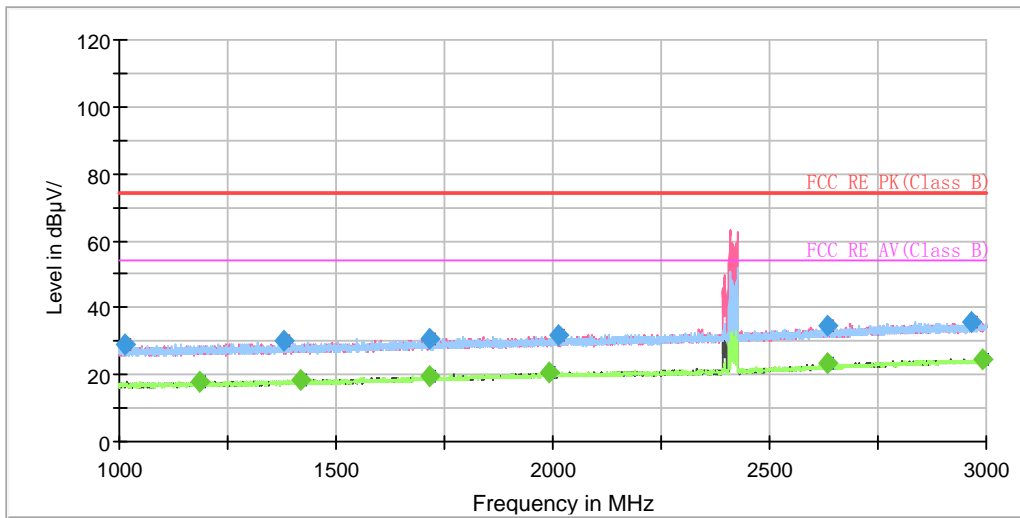
Radiates Emission from 3GHz to 18GHz



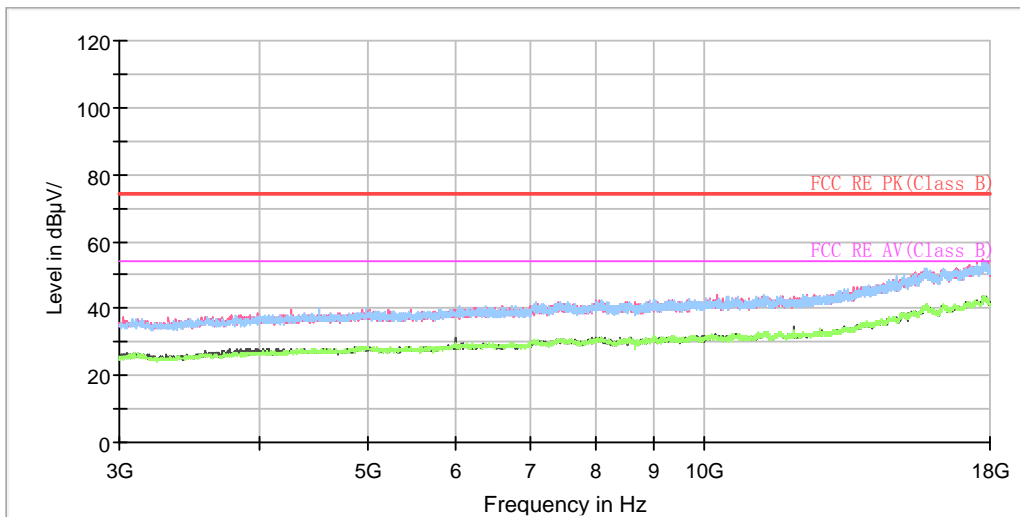
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1062.250000	29.16	---	74.00	44.84	200.0	H	234.0	-18.5
1165.500000	---	17.92	54.00	36.08	100.0	H	166.0	-18.0
1372.500000	29.92	---	74.00	44.08	100.0	H	317.0	-16.9
1426.250000	---	18.24	54.00	35.76	200.0	H	226.0	-16.6
1595.000000	30.41	---	74.00	43.59	200.0	H	104.0	-15.6
1691.750000	---	19.46	54.00	34.54	100.0	V	94.0	-15.1
2069.250000	---	20.64	54.00	33.36	100.0	H	150.0	-13.1
2076.250000	32.03	---	74.00	41.97	100.0	H	182.0	-13.1
2635.750000	---	22.43	54.00	31.57	100.0	V	0.0	-10.8
2726.750000	34.60	---	74.00	39.40	100.0	H	343.0	-10.4
2946.750000	---	24.65	54.00	29.35	100.0	H	322.0	-9.1
2999.000000	35.38	---	74.00	38.62	100.0	V	68.0	-8.9

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ax (HE20) 26-Tones CH2



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



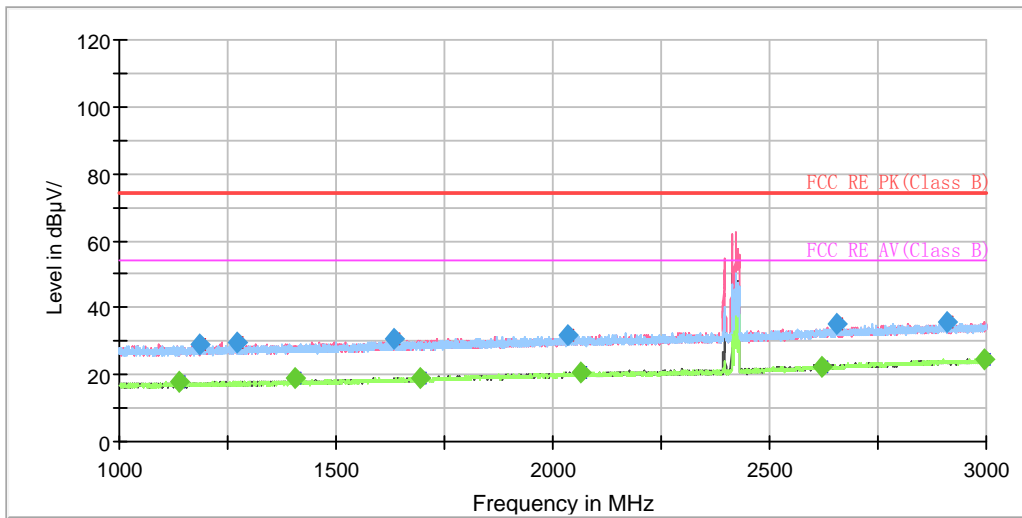
Radiates Emission from 3GHz to 18GHz



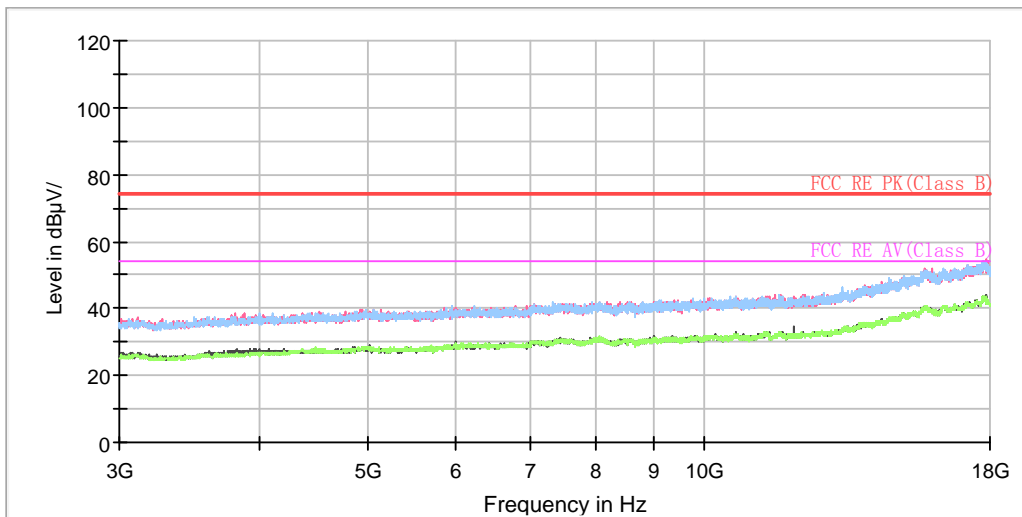
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1015.000000	29.00	---	74.00	45.00	100.0	H	258.0	-18.8
1187.250000	---	17.77	54.00	36.23	200.0	H	17.0	-17.8
1378.000000	30.34	---	74.00	43.66	200.0	V	1.0	-16.8
1416.000000	---	18.35	54.00	35.65	200.0	H	246.0	-16.6
1714.000000	---	19.50	54.00	34.50	100.0	H	123.0	-15.0
1714.250000	30.59	---	74.00	43.41	200.0	V	15.0	-15.0
1993.000000	---	20.44	54.00	33.56	100.0	H	298.0	-13.4
2012.500000	31.67	---	74.00	42.33	100.0	H	123.0	-13.4
2633.500000	34.65	---	74.00	39.35	100.0	H	324.0	-10.8
2634.750000	---	23.17	54.00	30.83	200.0	V	163.0	-10.8
2966.750000	35.65	---	74.00	38.35	200.0	H	313.0	-9.1
2990.500000	---	24.57	54.00	29.43	100.0	H	194.0	-8.9

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ax (HE20) 26-Tones CH3



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



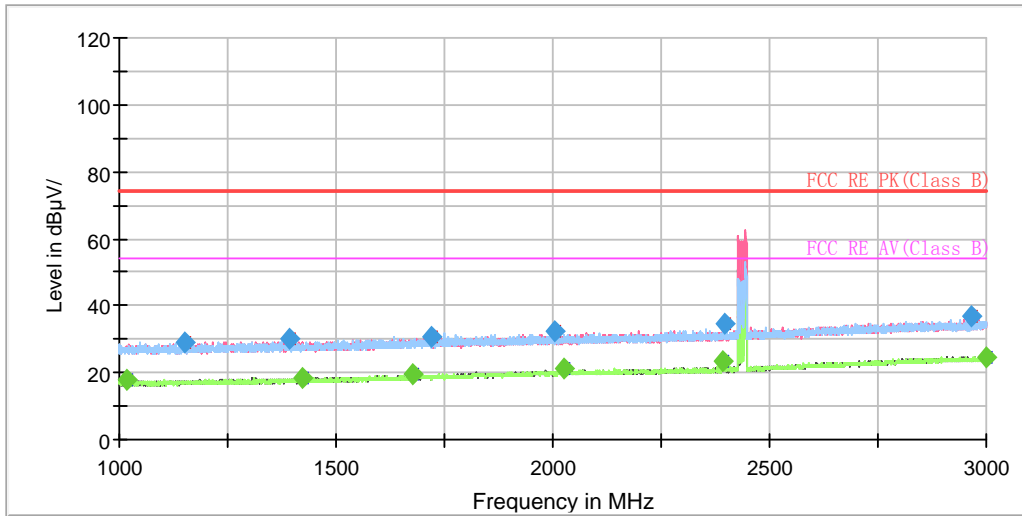
Radiates Emission from 3GHz to 18GHz



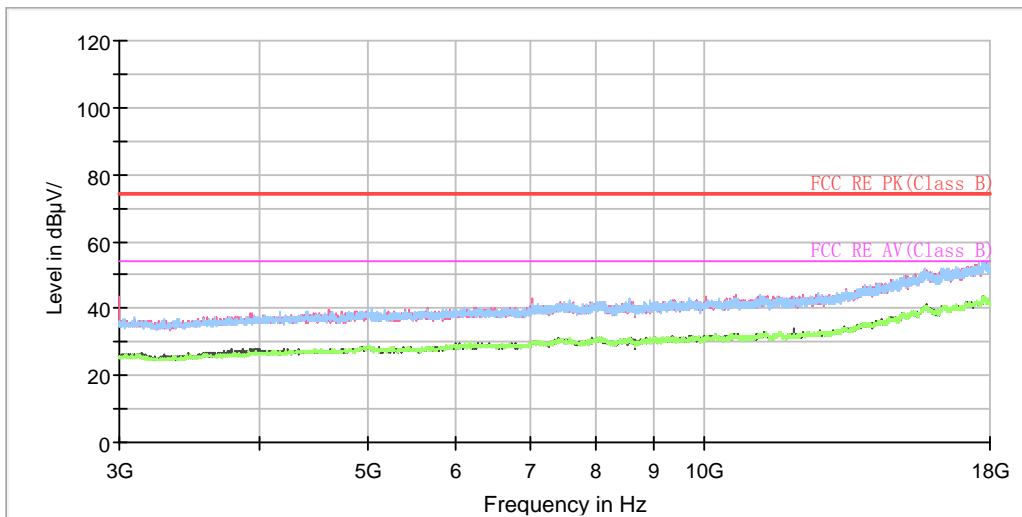
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1138.250000	---	17.85	54.00	36.15	100.0	H	309.0	-18.2
1184.500000	29.25	---	74.00	44.75	100.0	H	0.0	-17.8
1270.500000	29.39	---	74.00	44.61	100.0	H	107.0	-17.4
1406.750000	---	18.95	54.00	35.05	100.0	H	193.0	-16.7
1634.250000	30.86	---	74.00	43.14	200.0	H	131.0	-15.4
1695.750000	---	19.25	54.00	34.75	200.0	V	0.0	-15.1
2034.250000	31.99	---	74.00	42.01	200.0	H	77.0	-13.2
2062.750000	---	20.66	54.00	33.34	100.0	V	0.0	-13.1
2622.000000	---	22.42	54.00	31.58	200.0	V	12.0	-10.9
2655.250000	35.07	---	74.00	38.93	100.0	V	47.0	-10.7
2909.500000	35.92	---	74.00	38.08	100.0	V	313.0	-9.4
2995.000000	---	24.63	54.00	29.37	100.0	H	19.0	-8.9

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ax (HE20) 26-Tones CH6



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



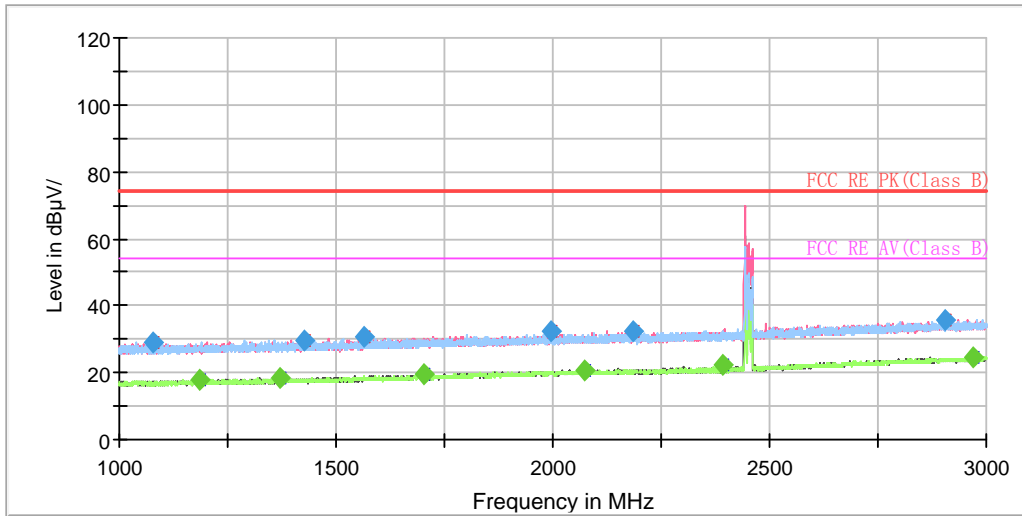
Radiates Emission from 3GHz to 18GHz



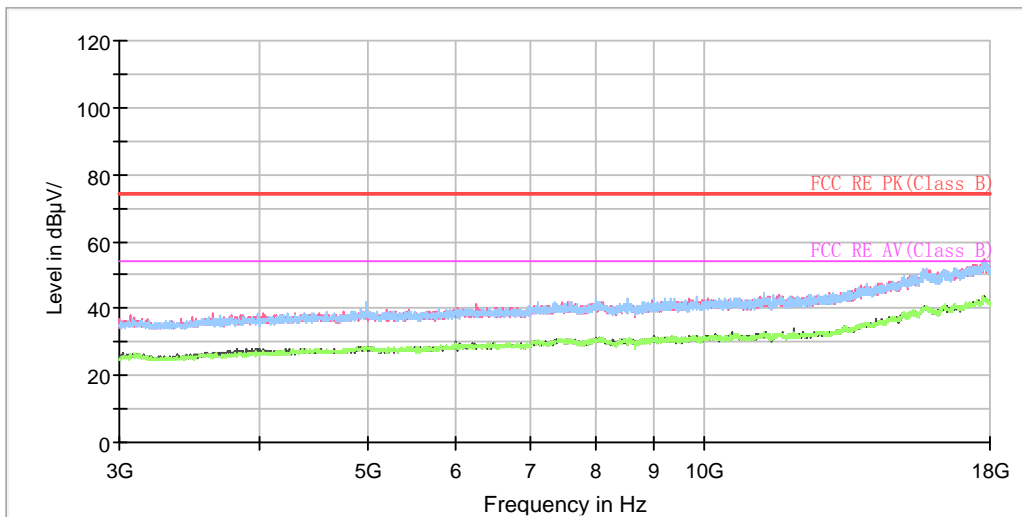
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1018.000000	---	17.75	54.00	36.25	200.0	H	49.0	-18.8
1151.500000	29.04	---	74.00	44.96	200.0	H	54.0	-18.1
1391.250000	30.24	---	74.00	43.76	100.0	V	278.0	-16.7
1422.750000	---	18.51	54.00	35.49	100.0	V	317.0	-16.6
1676.500000	---	19.30	54.00	34.70	200.0	V	108.0	-15.1
1719.750000	30.72	---	74.00	43.28	100.0	H	186.0	-14.9
2002.500000	32.48	---	74.00	41.52	200.0	H	171.0	-13.4
2026.750000	---	20.95	54.00	33.05	200.0	V	108.0	-13.3
2394.250000	---	23.34	54.00	30.66	200.0	V	155.0	-12.0
2396.250000	34.45	---	74.00	39.55	100.0	V	334.0	-12.0
2966.000000	36.61	---	74.00	37.39	200.0	H	17.0	-9.1
2999.250000	---	24.82	54.00	29.18	100.0	H	275.0	-8.9

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ax (HE20) 26-Tones CH9



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



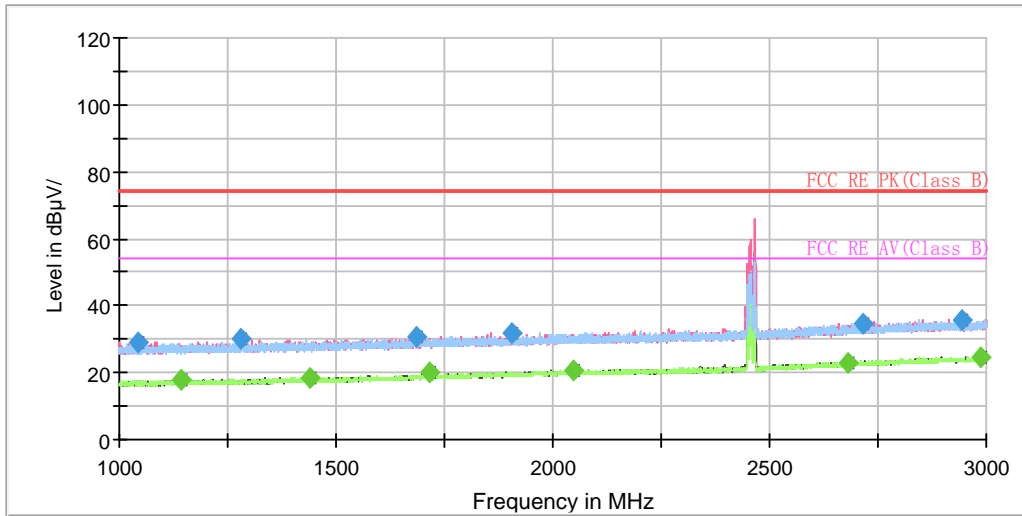
Radiates Emission from 3GHz to 18GHz



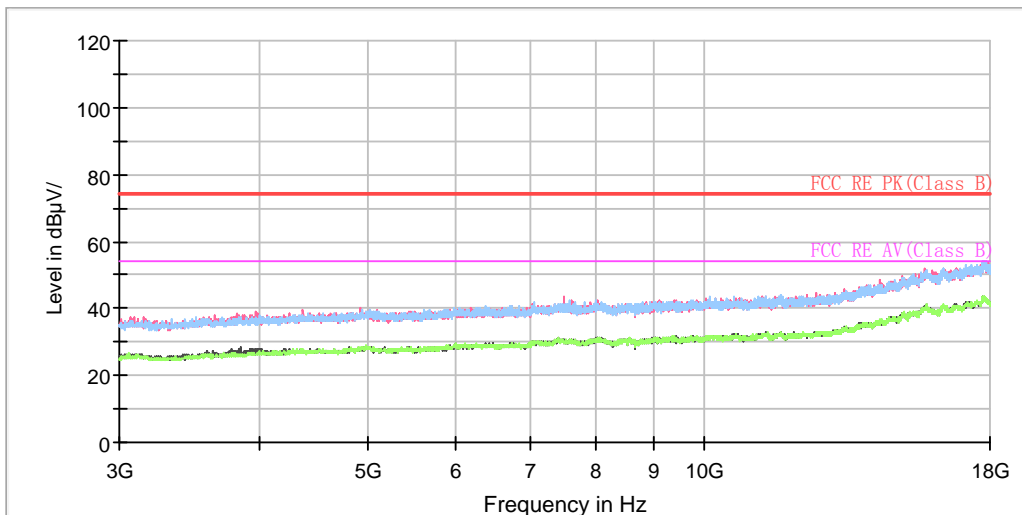
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1077.000000	29.00	---	74.00	45.00	100.0	V	74.0	-18.5
1186.000000	---	17.64	54.00	36.36	200.0	H	292.0	-17.8
1369.250000	---	18.41	54.00	35.59	100.0	H	66.0	-16.9
1426.500000	29.81	---	74.00	44.19	100.0	V	255.0	-16.6
1564.750000	30.53	---	74.00	43.47	100.0	H	357.0	-15.8
1701.250000	---	19.40	54.00	34.60	100.0	V	41.0	-15.0
1994.000000	32.52	---	74.00	41.48	200.0	V	63.0	-13.4
2073.750000	---	20.64	54.00	33.36	100.0	V	41.0	-13.1
2185.000000	32.28	---	74.00	41.72	100.0	H	6.0	-12.7
2394.250000	---	22.41	54.00	31.59	100.0	V	9.0	-12.0
2903.750000	35.98	---	74.00	38.02	100.0	V	41.0	-9.5
2970.750000	---	24.71	54.00	29.29	200.0	V	202.0	-9.1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ax (HE20) 26-Tones CH10



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



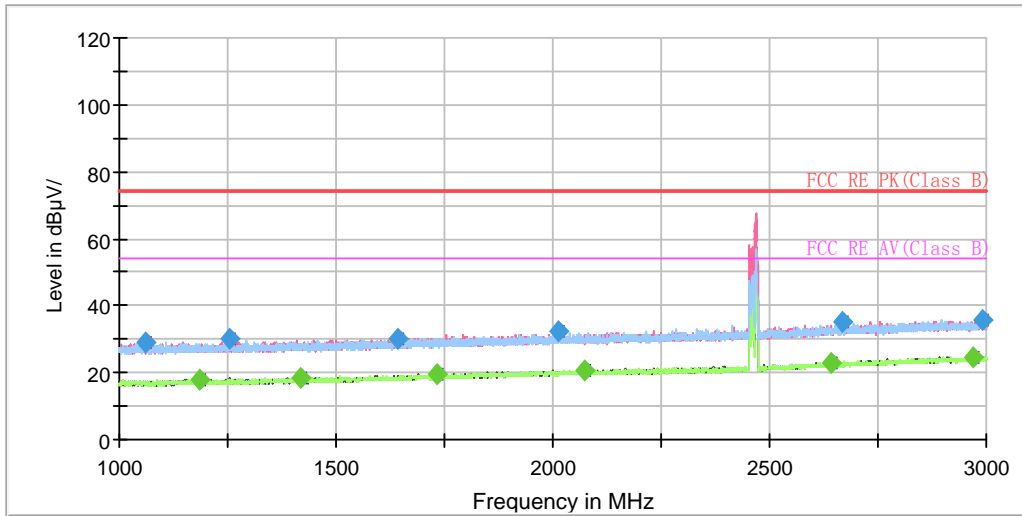
Radiates Emission from 3GHz to 18GHz



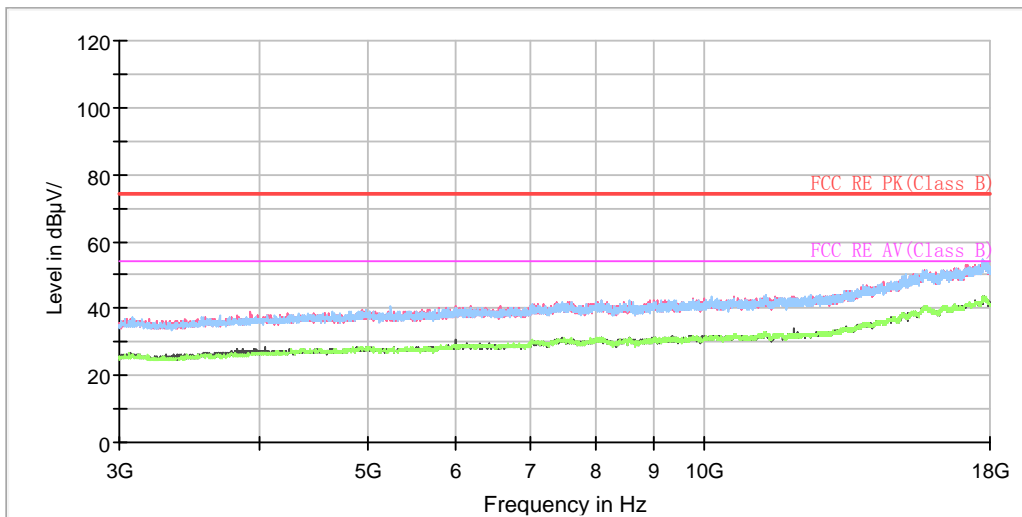
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1043.750000	29.07	---	74.00	44.93	100.0	H	32.0	-18.6
1141.000000	---	17.83	54.00	36.17	200.0	V	206.0	-18.1
1278.500000	29.86	---	74.00	44.14	100.0	V	294.0	-17.4
1441.750000	---	18.51	54.00	35.49	200.0	H	342.0	-16.5
1685.750000	30.51	---	74.00	43.49	200.0	H	356.0	-15.1
1715.500000	---	19.89	54.00	34.11	100.0	V	150.0	-15.0
1905.500000	31.93	---	74.00	42.07	200.0	V	0.0	-13.9
2049.000000	---	20.61	54.00	33.39	200.0	V	174.0	-13.2
2680.500000	---	22.90	54.00	31.10	200.0	V	166.0	-10.6
2714.750000	34.51	---	74.00	39.49	100.0	V	0.0	-10.4
2944.750000	35.80	---	74.00	38.20	200.0	H	31.0	-9.2
2987.000000	---	24.62	54.00	29.38	200.0	V	222.0	-9.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ax (HE20) 26-Tones CH11



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



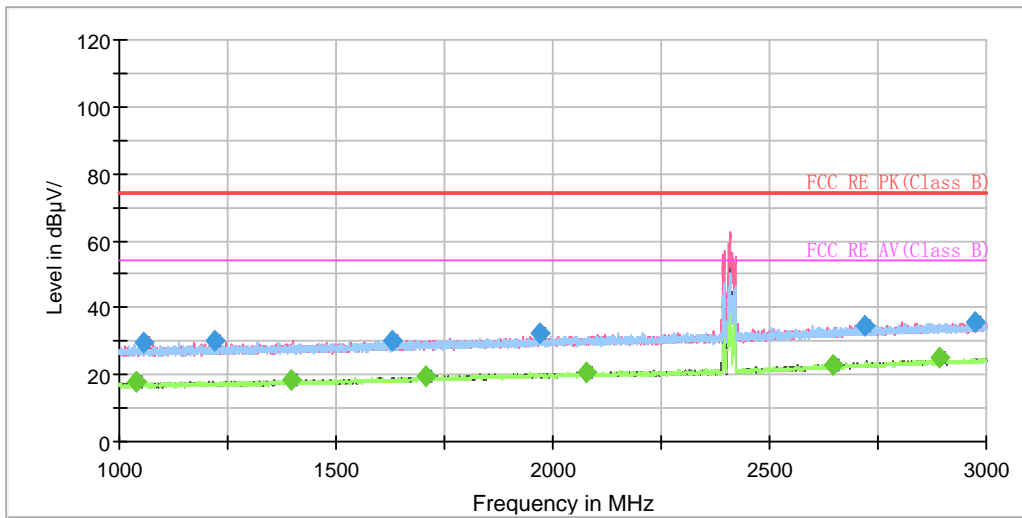
Radiates Emission from 3GHz to 18GHz



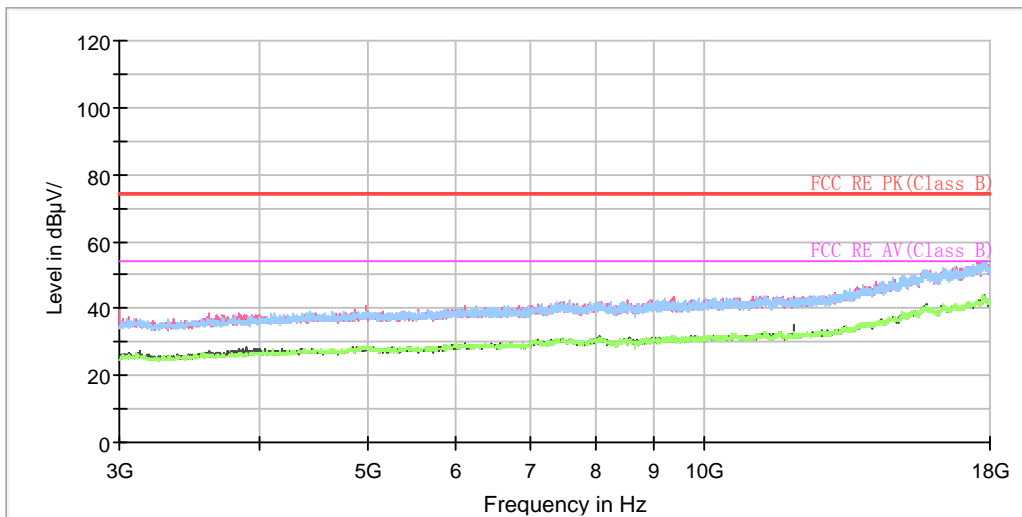
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1059.000000	28.97	---	74.00	45.03	100.0	H	130.0	-18.5
1186.000000	---	17.88	54.00	36.12	100.0	H	193.0	-17.8
1253.500000	30.18	---	74.00	43.82	100.0	H	73.0	-17.5
1417.000000	---	18.34	54.00	35.66	100.0	V	336.0	-16.6
1642.750000	30.38	---	74.00	43.62	100.0	V	23.0	-15.4
1731.000000	---	19.29	54.00	34.71	200.0	V	0.0	-14.9
2015.000000	32.19	---	74.00	41.81	200.0	H	302.0	-13.3
2072.000000	---	20.48	54.00	33.52	200.0	V	83.0	-13.1
2640.750000	---	22.85	54.00	31.15	200.0	V	28.0	-10.8
2666.250000	35.14	---	74.00	38.86	200.0	H	0.0	-10.7
2968.250000	---	24.83	54.00	29.17	200.0	H	348.0	-9.1
2989.750000	35.63	---	74.00	38.37	100.0	V	280.0	-8.9

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ax (HE20) 52-Tones CH1



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



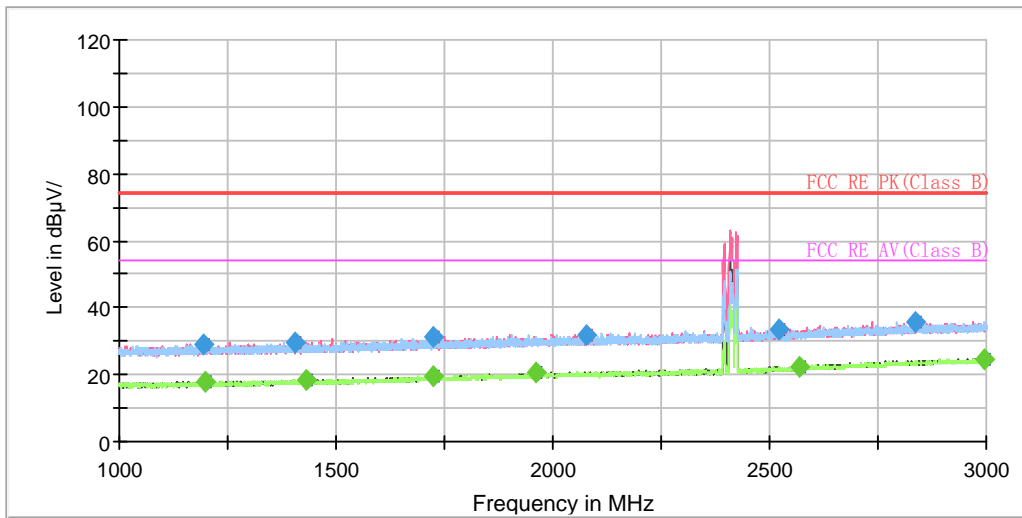
Radiates Emission from 3GHz to 18GHz



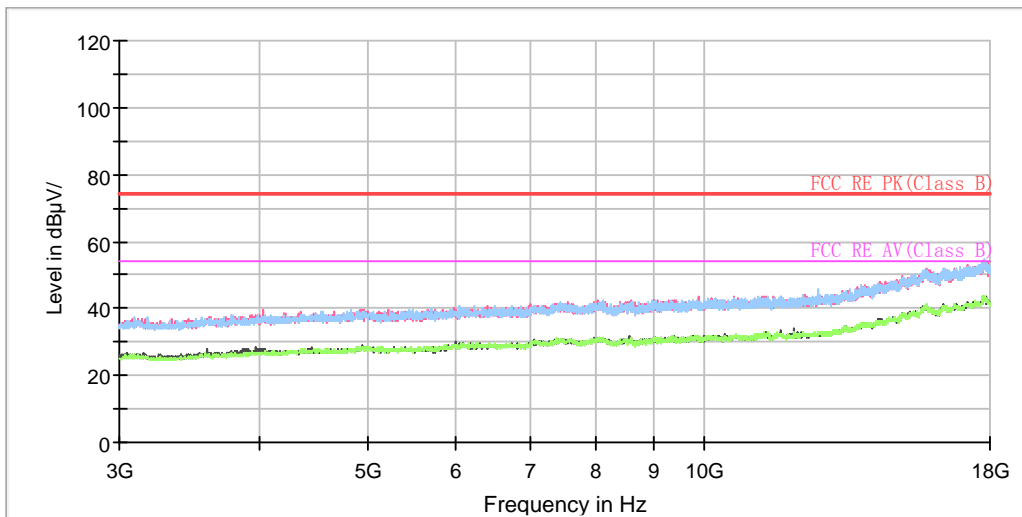
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1037.250000	---	17.91	54.00	36.09	100.0	H	275.0	-18.6
1056.500000	29.39	---	74.00	44.61	200.0	H	189.0	-18.5
1221.250000	30.07	---	74.00	43.93	200.0	V	1.0	-17.7
1396.750000	---	18.37	54.00	35.63	100.0	H	143.0	-16.7
1631.000000	30.38	---	74.00	43.62	100.0	H	52.0	-15.4
1706.250000	---	19.39	54.00	34.61	200.0	H	301.0	-15.0
1969.500000	32.33	---	74.00	41.67	200.0	H	220.0	-13.5
2078.750000	---	20.66	54.00	33.34	100.0	V	308.0	-13.1
2648.250000	---	22.74	54.00	31.26	100.0	H	68.0	-10.8
2720.750000	34.75	---	74.00	39.25	200.0	V	310.0	-10.4
2890.500000	---	24.87	54.00	29.13	200.0	H	181.0	-9.5
2973.750000	35.99	---	74.00	38.01	100.0	V	47.0	-9.1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ax (HE20) 52-Tones CH2



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



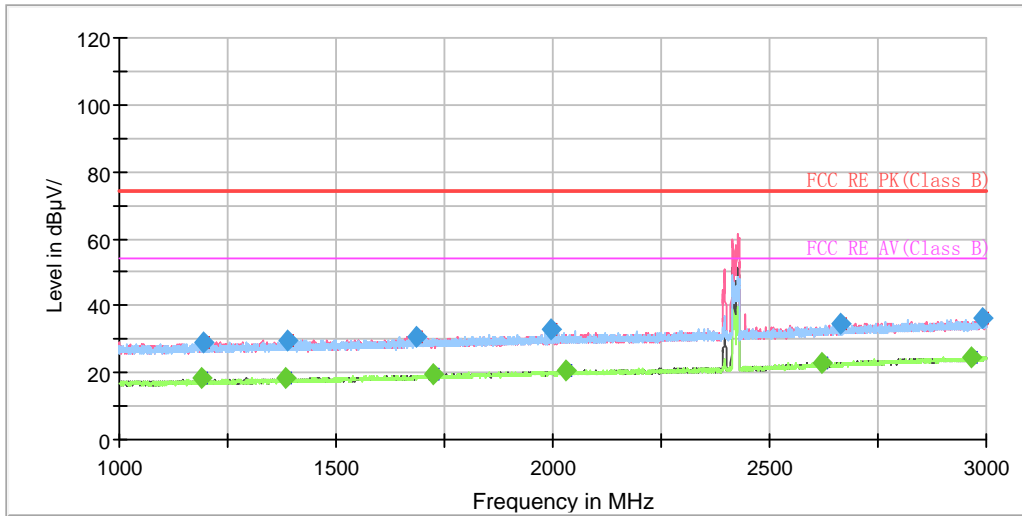
Radiates Emission from 3GHz to 18GHz



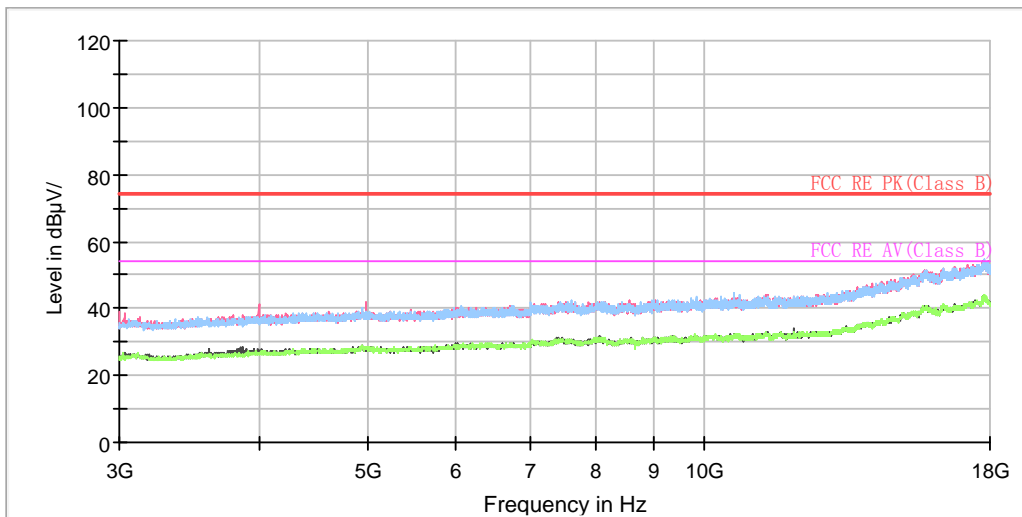
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1193.500000	28.98	---	74.00	45.02	200.0	H	346.0	-17.8
1200.250000	---	17.83	54.00	36.17	100.0	V	216.0	-17.8
1405.000000	29.79	---	74.00	44.21	100.0	V	98.0	-16.7
1430.500000	---	18.25	54.00	35.75	100.0	V	0.0	-16.6
1726.000000	---	19.36	54.00	34.64	100.0	V	128.0	-14.9
1726.000000	31.03	---	74.00	42.97	200.0	V	300.0	-14.9
1961.250000	---	20.75	54.00	33.25	100.0	H	106.0	-13.5
2079.000000	31.97	---	74.00	42.03	100.0	H	0.0	-13.1
2523.500000	33.58	---	74.00	40.42	200.0	V	231.0	-11.3
2570.750000	---	22.06	54.00	31.94	200.0	V	96.0	-11.1
2836.500000	35.74	---	74.00	38.26	200.0	H	241.0	-9.7
2994.750000	---	24.73	54.00	29.27	200.0	H	323.0	-8.9

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ax (HE20) 52-Tones CH3



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



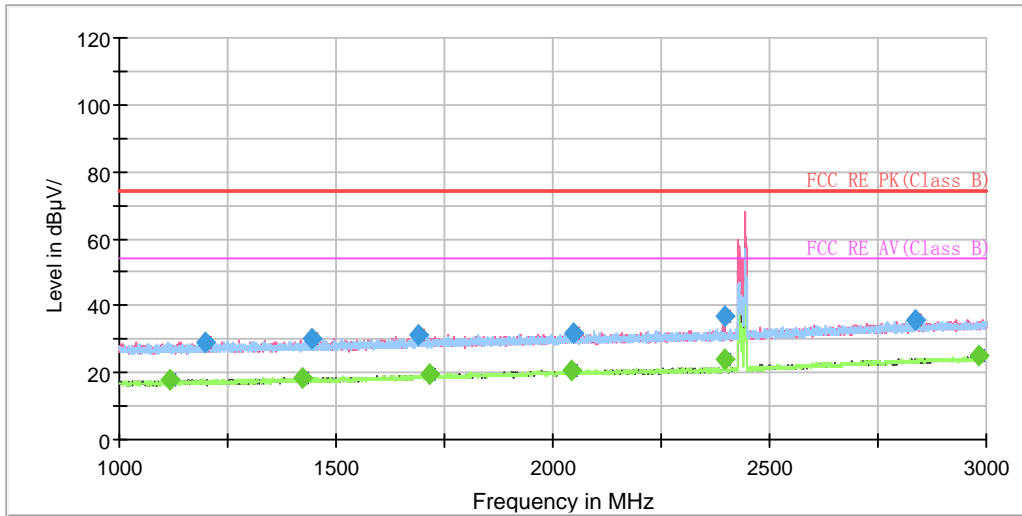
Radiates Emission from 3GHz to 18GHz



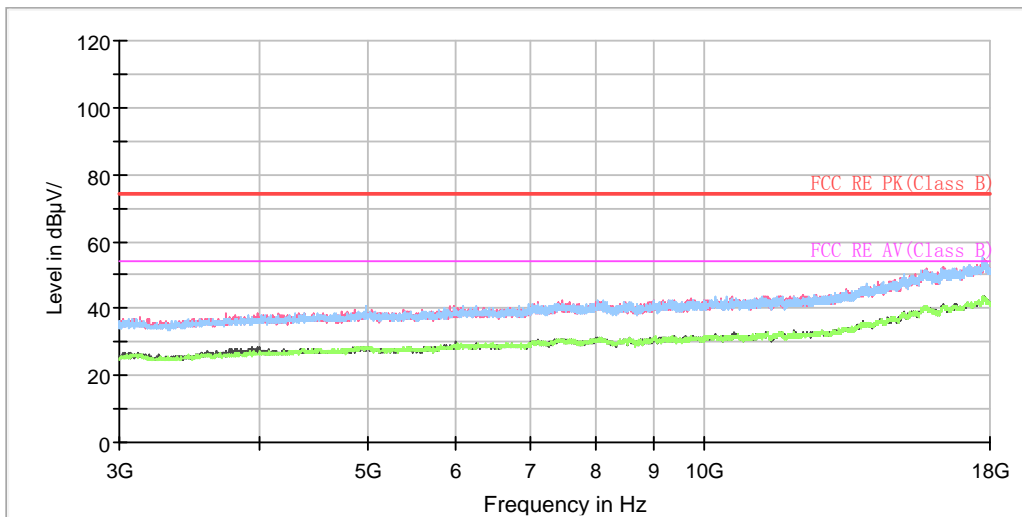
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1190.500000	---	18.19	54.00	35.81	100.0	H	22.0	-17.8
1195.000000	29.12	---	74.00	44.88	100.0	H	80.0	-17.8
1384.500000	---	18.48	54.00	35.52	200.0	V	1.0	-16.8
1386.750000	29.76	---	74.00	44.24	100.0	V	0.0	-16.8
1683.250000	30.74	---	74.00	43.26	100.0	V	0.0	-15.1
1725.500000	---	19.34	54.00	34.66	200.0	H	100.0	-14.9
1996.750000	32.93	---	74.00	41.07	200.0	V	130.0	-13.4
2031.500000	---	20.57	54.00	33.43	100.0	H	169.0	-13.2
2622.500000	---	22.77	54.00	31.23	100.0	V	155.0	-10.9
2664.750000	34.55	---	74.00	39.45	200.0	V	359.0	-10.7
2965.750000	---	24.56	54.00	29.44	200.0	H	0.0	-9.1
2992.250000	36.15	---	74.00	37.85	200.0	H	271.0	-8.9

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ax (HE20) 52-Tones CH6



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



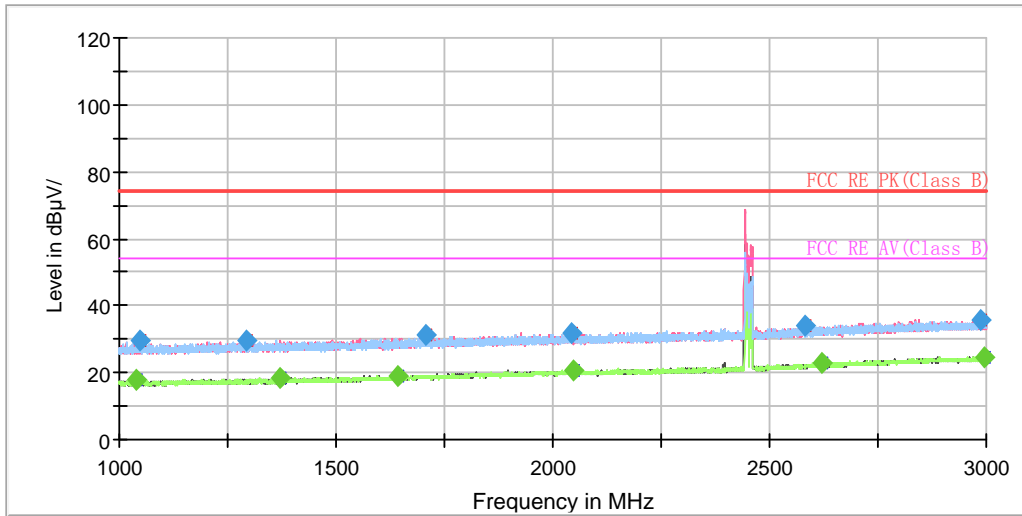
Radiates Emission from 3GHz to 18GHz



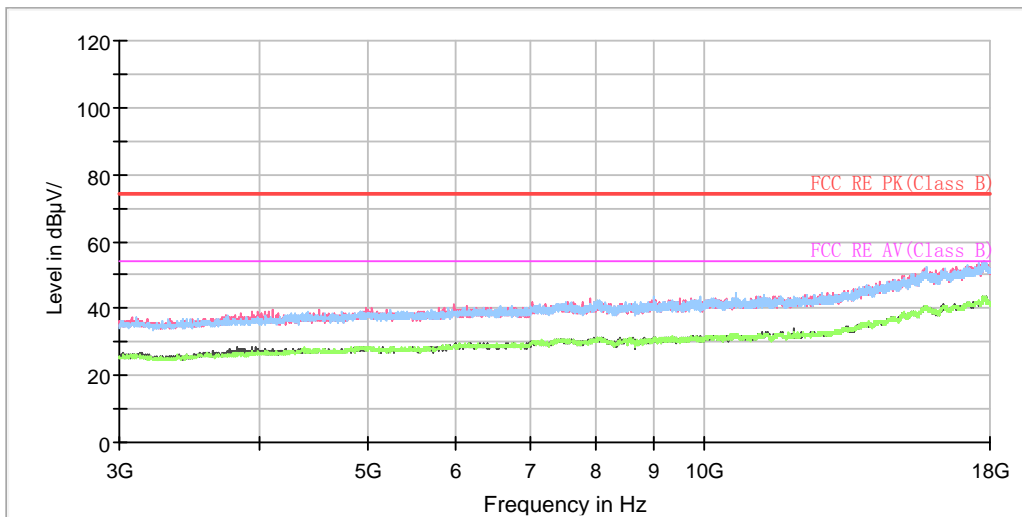
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1115.000000	---	17.96	54.00	36.04	100.0	H	206.0	-18.3
1198.250000	29.08	---	74.00	44.92	100.0	V	240.0	-17.8
1420.500000	---	18.41	54.00	35.59	100.0	V	349.0	-16.6
1442.000000	29.95	---	74.00	44.05	100.0	H	237.0	-16.5
1689.250000	31.32	---	74.00	42.68	200.0	V	314.0	-15.1
1715.000000	---	19.36	54.00	34.64	100.0	H	312.0	-15.0
2042.250000	---	20.61	54.00	33.39	200.0	H	328.0	-13.2
2048.750000	31.73	---	74.00	42.27	200.0	V	34.0	-13.2
2395.500000	36.81	---	74.00	37.19	100.0	V	57.0	-12.0
2395.750000	---	23.73	54.00	30.27	200.0	V	195.0	-12.0
2838.000000	35.92	---	74.00	38.08	100.0	H	301.0	-9.7
2981.500000	---	25.10	54.00	28.90	100.0	V	13.0	-9.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ax (HE20) 52-Tones CH9



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



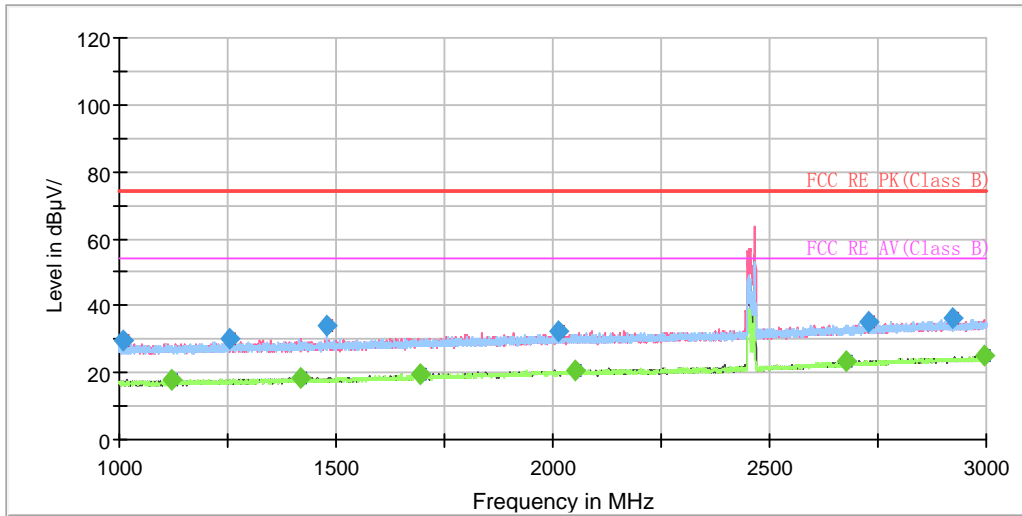
Radiates Emission from 3GHz to 18GHz



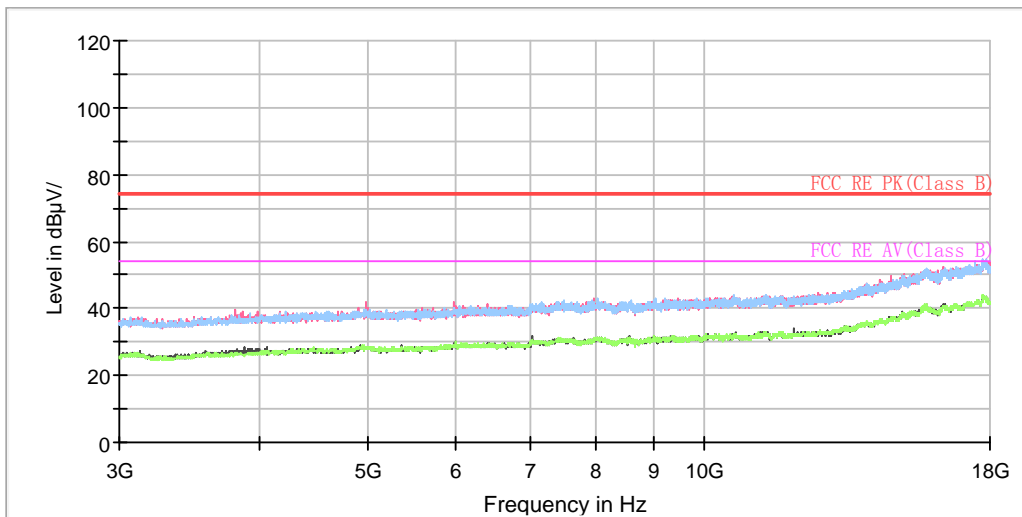
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1036.750000	---	17.99	54.00	36.01	200.0	V	188.0	-18.6
1046.000000	29.44	---	74.00	44.56	100.0	V	246.0	-18.6
1292.000000	29.84	---	74.00	44.16	200.0	V	328.0	-17.3
1368.750000	---	18.28	54.00	35.72	200.0	V	204.0	-16.9
1641.250000	---	19.23	54.00	34.77	200.0	H	0.0	-15.4
1708.500000	31.01	---	74.00	42.99	200.0	H	334.0	-15.0
2043.500000	32.00	---	74.00	42.00	200.0	V	109.0	-13.2
2049.500000	---	20.44	54.00	33.56	100.0	H	29.0	-13.2
2584.000000	34.18	---	74.00	39.82	200.0	V	156.0	-11.0
2620.500000	---	22.74	54.00	31.26	200.0	H	245.0	-10.9
2987.500000	35.89	---	74.00	38.11	200.0	V	109.0	-9.0
2995.500000	---	24.75	54.00	29.25	200.0	V	109.0	-8.9

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ax (HE20) 52-Tones CH10



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



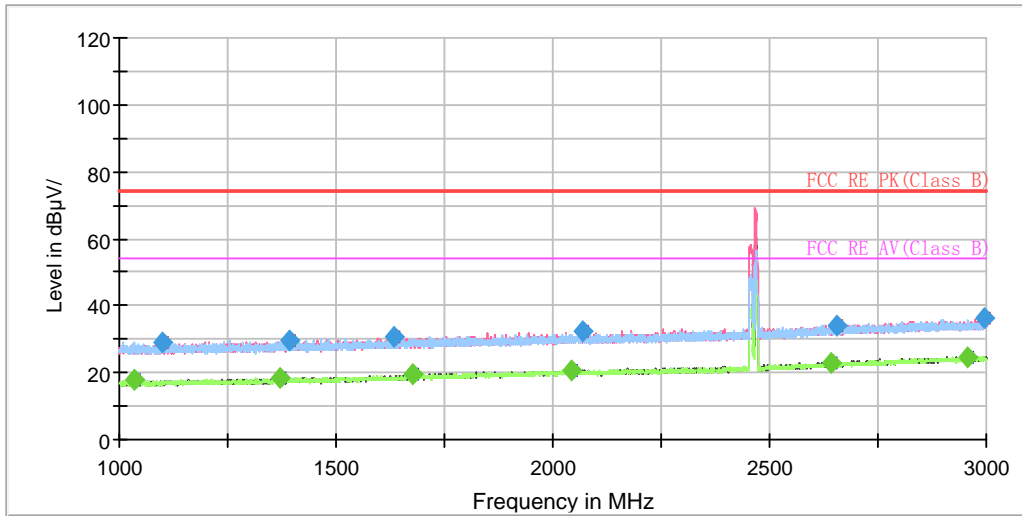
Radiates Emission from 3GHz to 18GHz



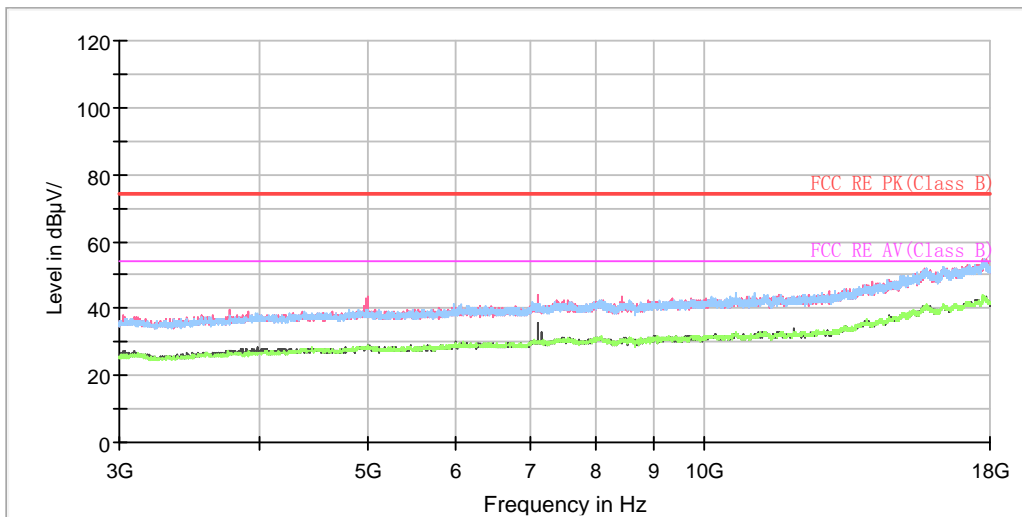
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1007.500000	29.49	---	74.00	44.51	200.0	V	47.0	-18.8
1121.000000	---	17.76	54.00	36.24	200.0	H	345.0	-18.2
1255.750000	30.09	---	74.00	43.91	100.0	H	0.0	-17.5
1419.250000	---	18.38	54.00	35.62	200.0	V	0.0	-16.6
1478.750000	33.96	---	74.00	40.04	200.0	H	184.0	-16.3
1695.250000	---	19.38	54.00	34.62	100.0	H	29.0	-15.1
2011.750000	32.44	---	74.00	41.56	200.0	V	175.0	-13.4
2051.000000	---	20.70	54.00	33.30	200.0	V	103.0	-13.1
2676.250000	---	23.32	54.00	30.68	100.0	V	355.0	-10.6
2728.250000	35.34	---	74.00	38.66	200.0	V	310.0	-10.3
2924.000000	36.42	---	74.00	37.58	200.0	V	271.0	-9.3
2994.500000	---	25.01	54.00	28.99	200.0	V	119.0	-8.9

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ax (HE20) 52-Tones CH11



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



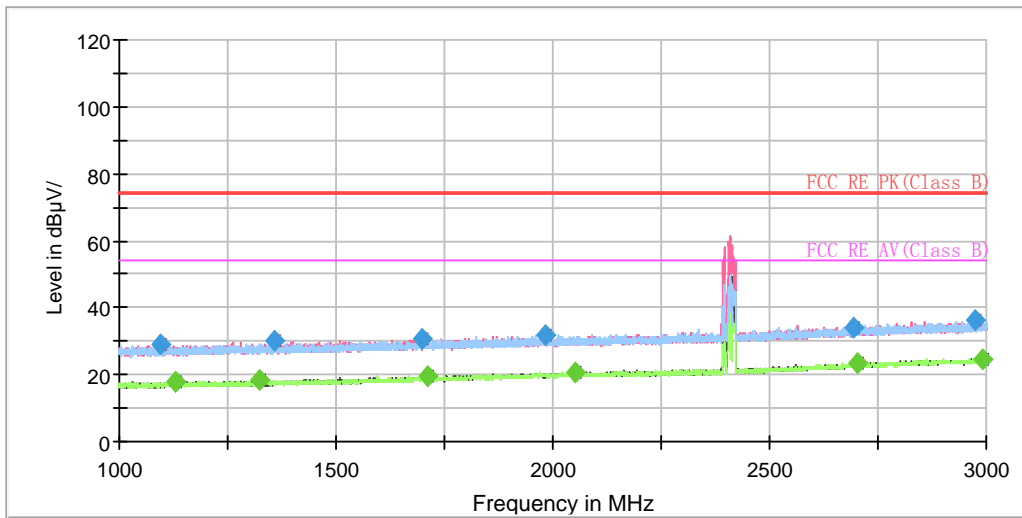
Radiates Emission from 3GHz to 18GHz



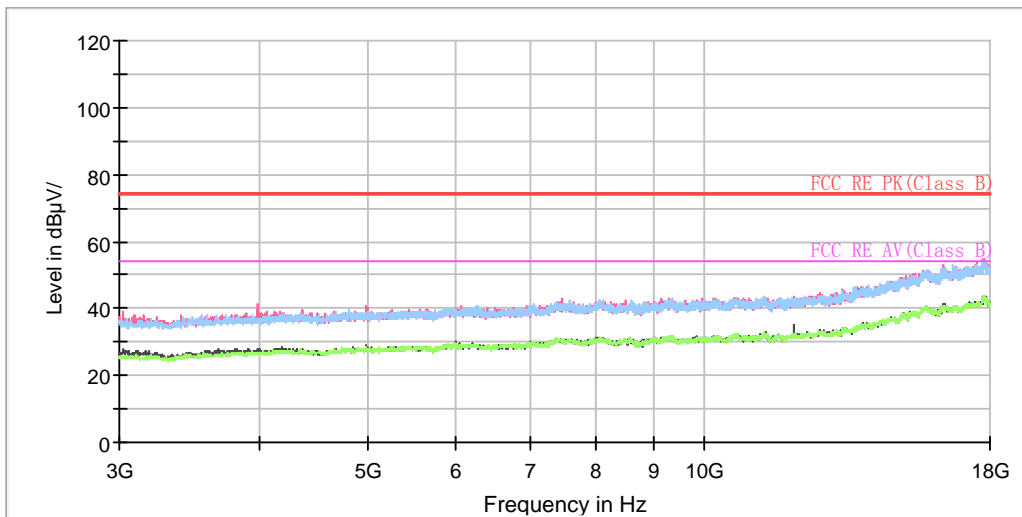
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1036.000000	---	17.81	54.00	36.19	200.0	H	22.0	-18.6
1097.250000	29.22	---	74.00	44.78	100.0	V	294.0	-18.4
1369.000000	---	18.29	54.00	35.71	100.0	H	266.0	-16.9
1392.000000	29.43	---	74.00	44.57	200.0	H	18.0	-16.7
1633.250000	30.67	---	74.00	43.33	100.0	V	79.0	-15.4
1674.750000	---	19.41	54.00	34.59	100.0	H	321.0	-15.1
2041.000000	---	20.75	54.00	33.25	200.0	V	32.0	-13.2
2067.250000	32.19	---	74.00	41.81	200.0	H	4.0	-13.1
2640.250000	---	22.87	54.00	31.13	100.0	H	2.0	-10.8
2657.250000	34.18	---	74.00	39.82	100.0	H	0.0	-10.7
2957.250000	---	24.68	54.00	29.32	100.0	V	79.0	-9.1
2997.750000	36.26	---	74.00	37.74	100.0	H	39.0	-8.9

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ax (HE20) 106-Tones CH1



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



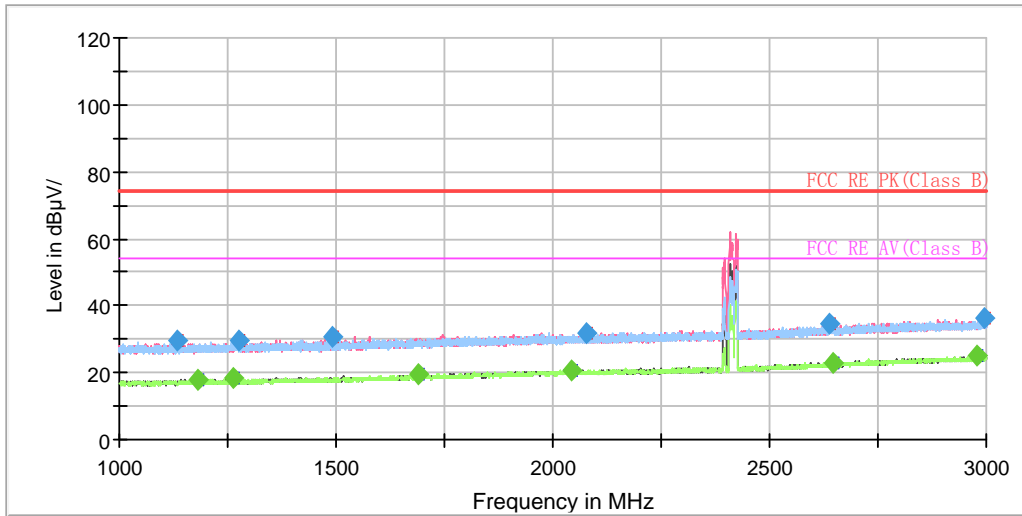
Radiates Emission from 3GHz to 18GHz



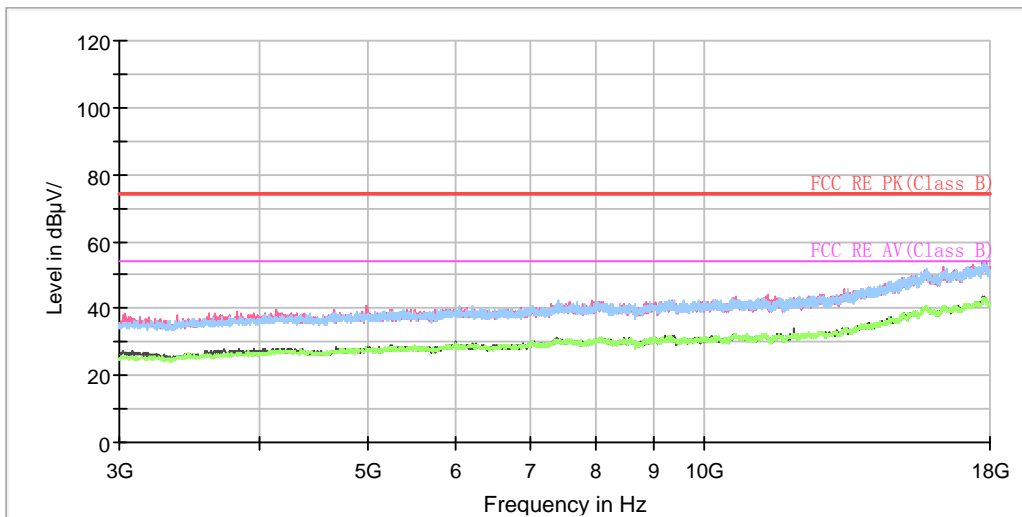
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1094.750000	28.83	---	74.00	45.17	200.0	H	103.0	-18.4
1131.000000	---	17.98	54.00	36.02	200.0	H	224.0	-18.2
1325.000000	---	18.58	54.00	35.42	100.0	V	293.0	-17.1
1356.750000	29.89	---	74.00	44.11	100.0	H	106.0	-16.9
1700.250000	30.54	---	74.00	43.46	200.0	H	217.0	-15.0
1711.500000	---	19.47	54.00	34.53	100.0	H	70.0	-15.0
1983.250000	32.02	---	74.00	41.98	100.0	H	13.0	-13.5
2053.250000	---	20.67	54.00	33.33	100.0	V	217.0	-13.1
2695.750000	34.17	---	74.00	39.83	200.0	V	3.0	-10.5
2700.500000	---	23.26	54.00	30.74	200.0	V	201.0	-10.5
2975.000000	36.31	---	74.00	37.69	200.0	V	83.0	-9.1
2991.250000	---	24.82	54.00	29.18	200.0	V	33.0	-8.9

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ax (HE20) 106-Tones CH2



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



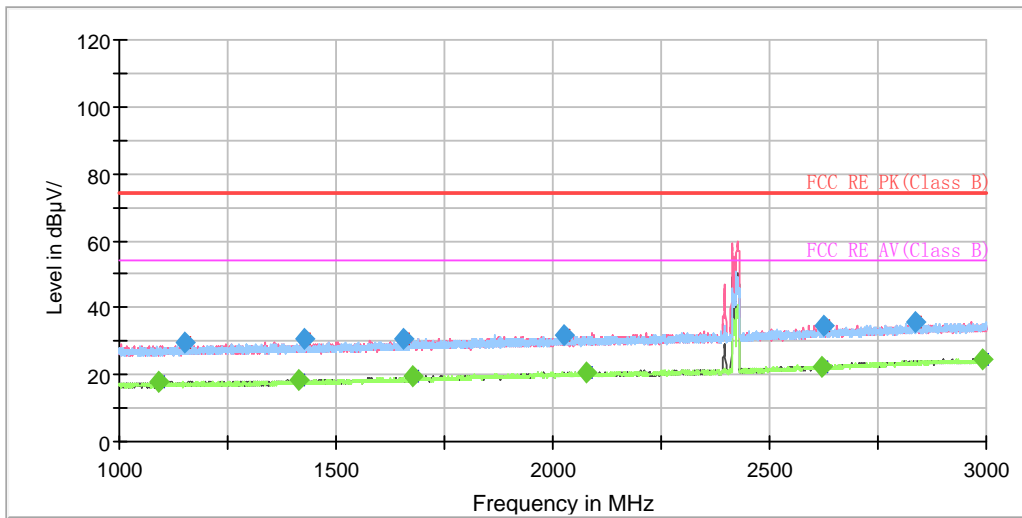
Radiates Emission from 3GHz to 18GHz



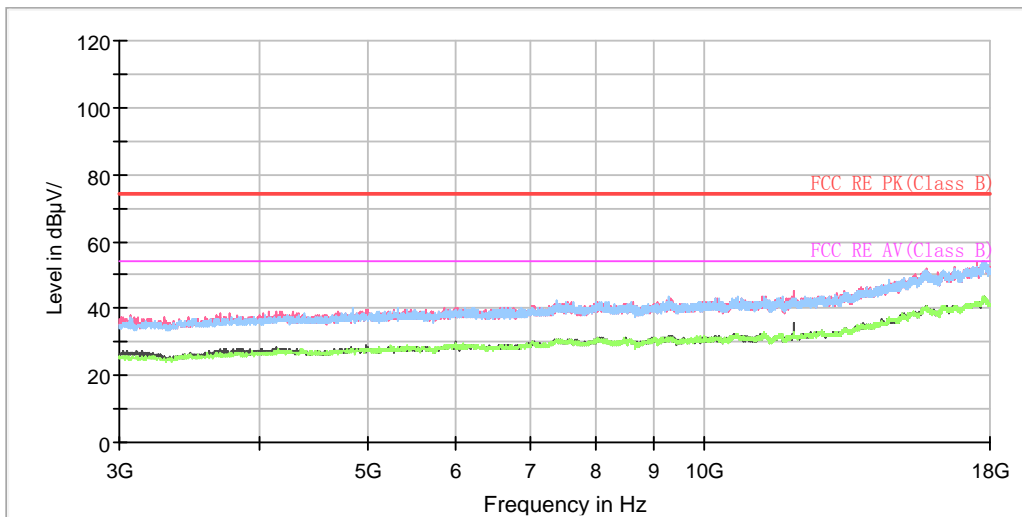
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1131.750000	29.54	---	74.00	44.46	100.0	H	280.0	-18.2
1182.250000	---	17.73	54.00	36.27	200.0	V	13.0	-17.9
1264.500000	---	18.39	54.00	35.61	200.0	V	161.0	-17.4
1275.250000	29.76	---	74.00	44.24	100.0	V	185.0	-17.4
1489.750000	30.69	---	74.00	43.31	200.0	V	258.0	-16.2
1691.250000	---	19.46	54.00	34.54	200.0	H	239.0	-15.1
2044.500000	---	20.71	54.00	33.29	100.0	V	258.0	-13.2
2076.500000	31.79	---	74.00	42.21	100.0	H	307.0	-13.1
2639.000000	34.61	---	74.00	39.39	200.0	V	258.0	-10.8
2648.250000	---	22.86	54.00	31.14	200.0	H	9.0	-10.8
2976.750000	---	24.86	54.00	29.14	200.0	V	338.0	-9.1
2993.750000	36.28	---	74.00	37.72	200.0	V	7.0	-8.9

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ax (HE20) 106-Tones CH3



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



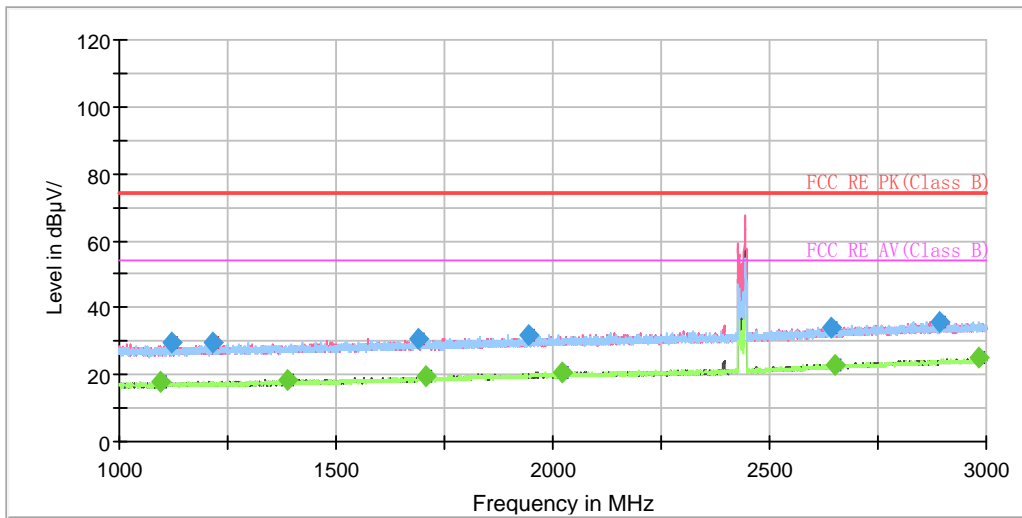
Radiates Emission from 3GHz to 18GHz



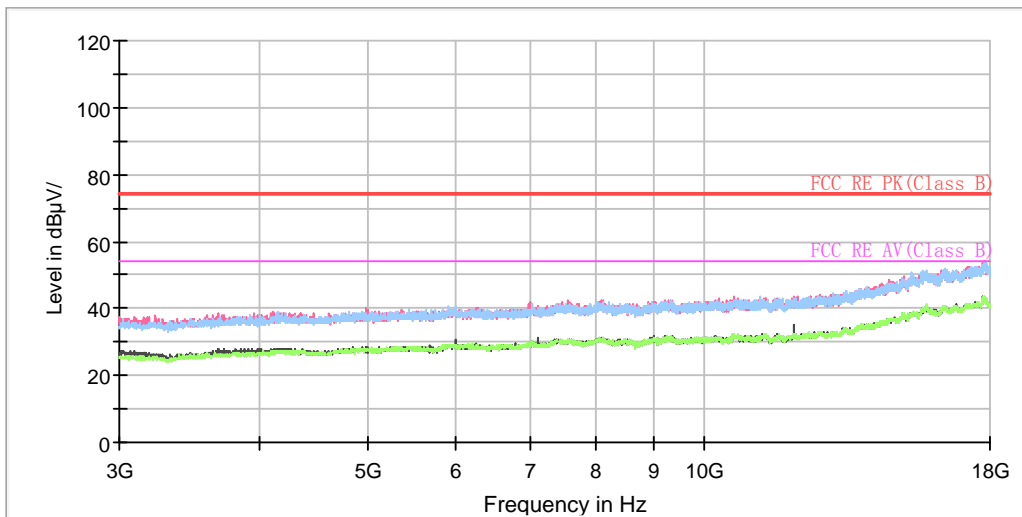
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1088.500000	---	18.06	54.00	35.94	200.0	H	213.0	-18.4
1149.250000	29.64	---	74.00	44.36	100.0	V	218.0	-18.1
1413.000000	---	18.46	54.00	35.54	200.0	V	229.0	-16.6
1426.250000	30.49	---	74.00	43.51	100.0	H	82.0	-16.6
1653.250000	30.91	---	74.00	43.09	100.0	V	92.0	-15.3
1678.000000	---	19.58	54.00	34.42	100.0	H	7.0	-15.1
2024.750000	32.00	---	74.00	42.00	100.0	V	128.0	-13.3
2076.250000	---	20.78	54.00	33.22	200.0	H	145.0	-13.1
2621.750000	---	22.45	54.00	31.55	200.0	V	101.0	-10.9
2623.250000	34.45	---	74.00	39.55	200.0	V	187.0	-10.9
2836.750000	35.51	---	74.00	38.49	200.0	V	354.0	-9.7
2992.000000	---	24.74	54.00	29.26	100.0	V	0.0	-8.9

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ax (HE20) 106-Tones CH6



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz