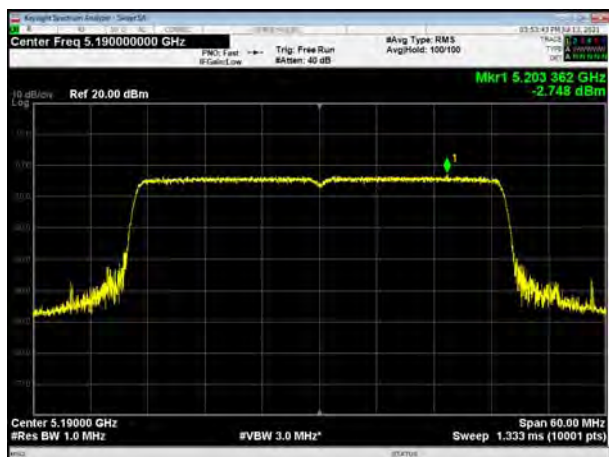




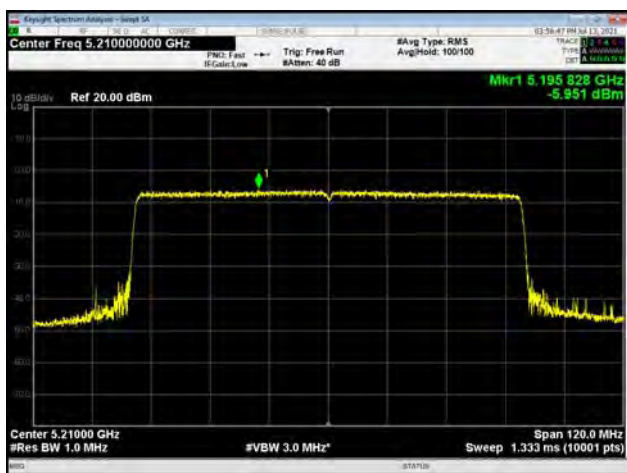
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802.11ax HE40 484Tone: 5230



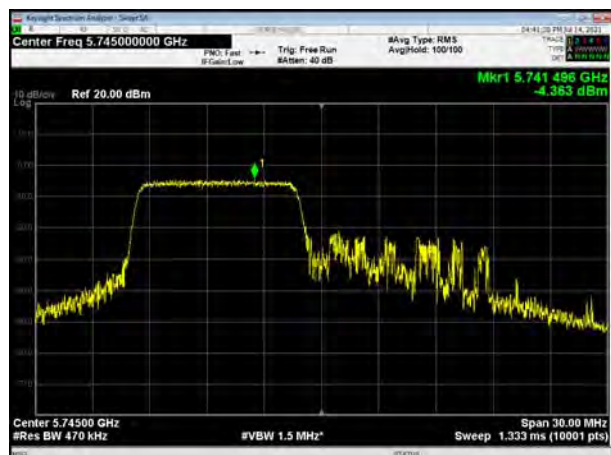
802.11ax HE80 996 Tone: 5210





UNII-3

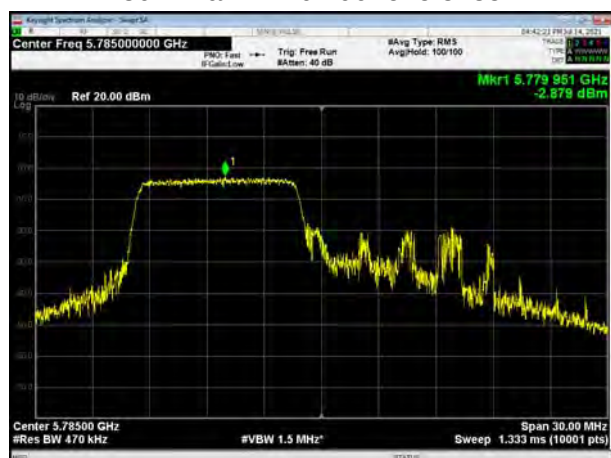
802.11ax HE20 106Tone:5745



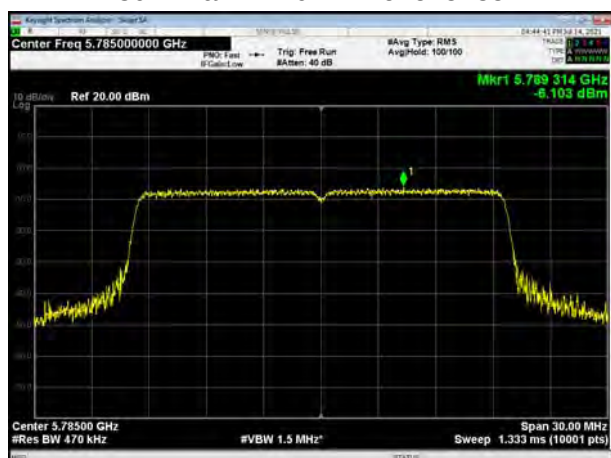
802.11ax HE20 242Tone: 5745



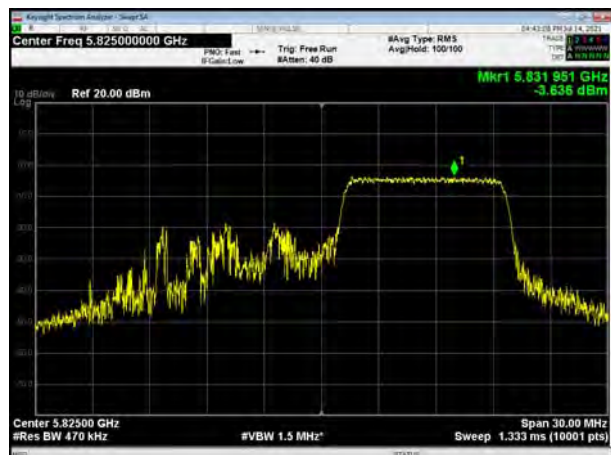
802.11ax HE20 106Tone:5785



802.11ax HE20 242Tone: 5785



802.11ax HE20 106Tone: 5825

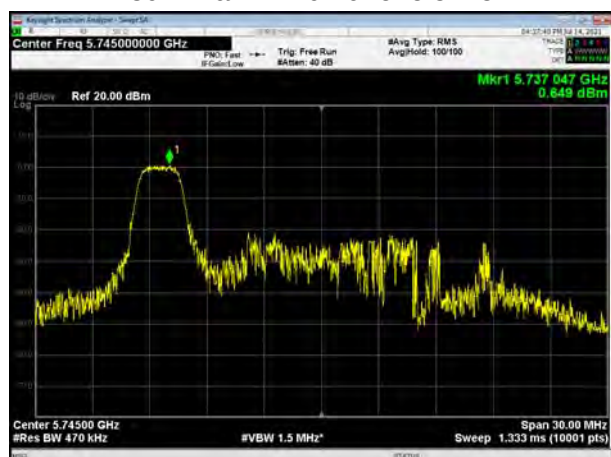


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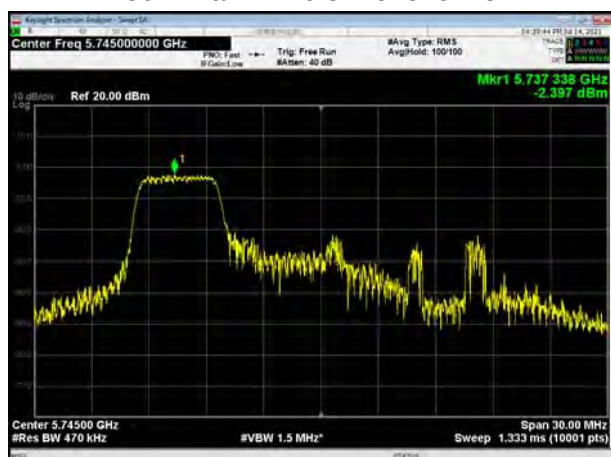




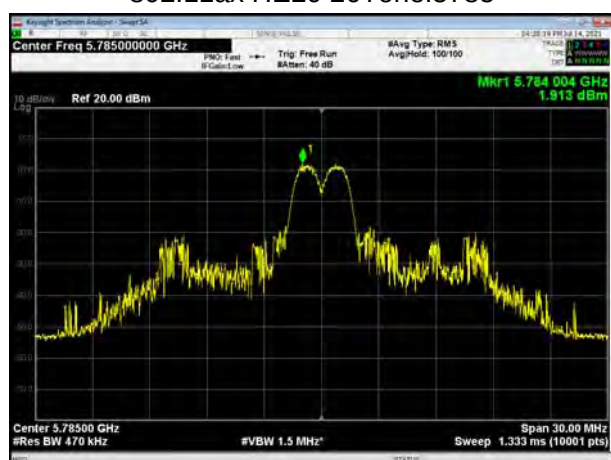
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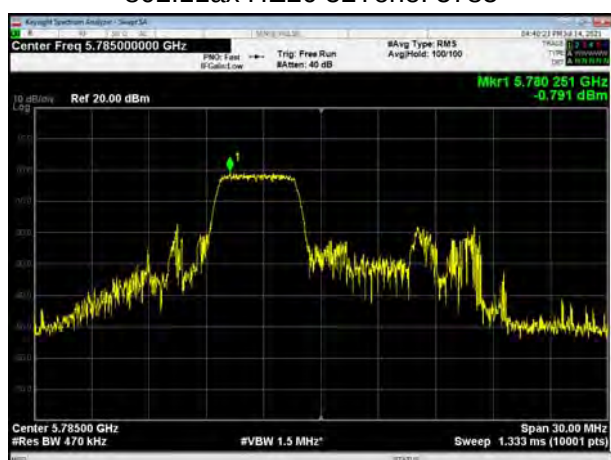
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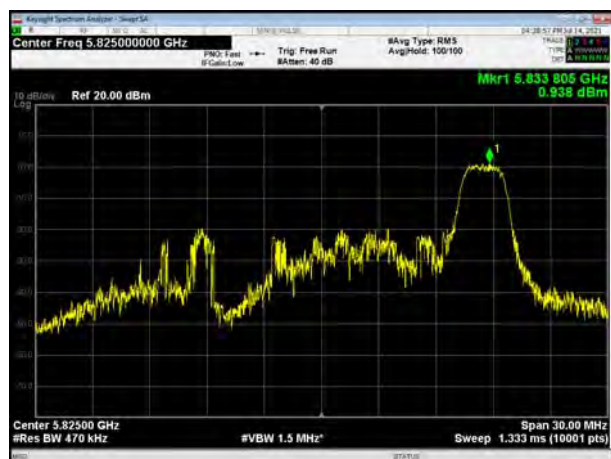
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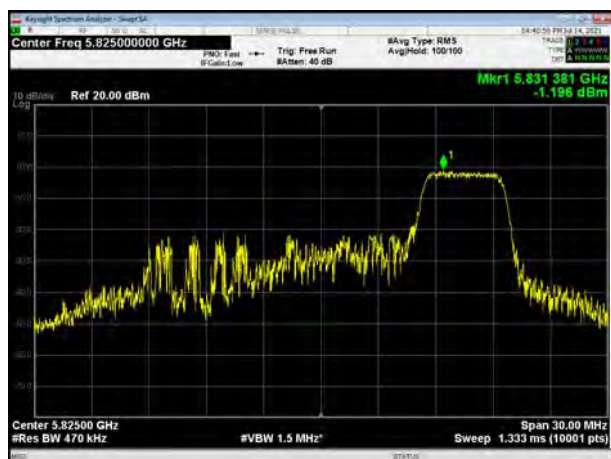
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802.11ax HE20 26Tone: 5825

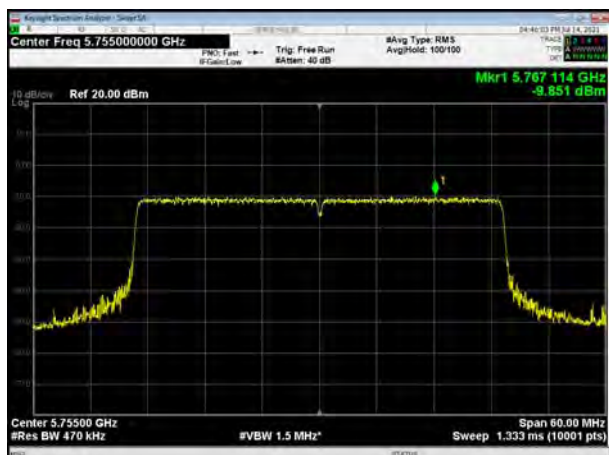


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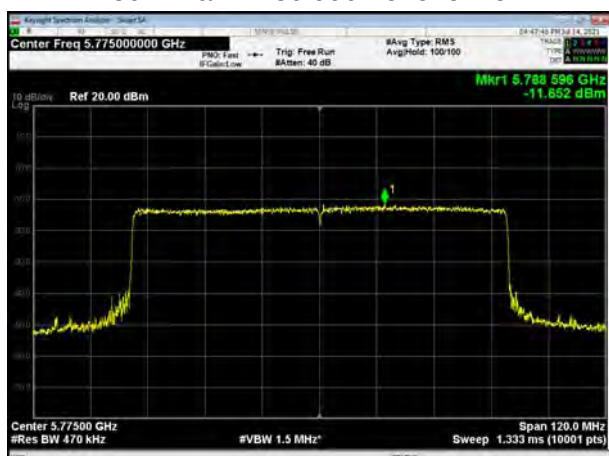
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802.11ax HE40 484Tone: 5795



802.11ax HE80 996 Tone: 5775

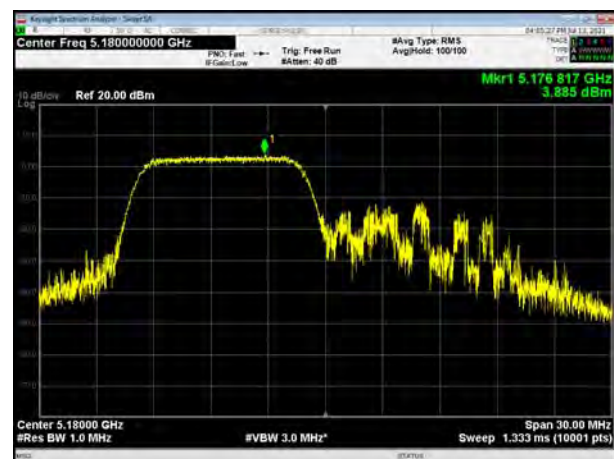




SISO Antenna 2

UNII-1

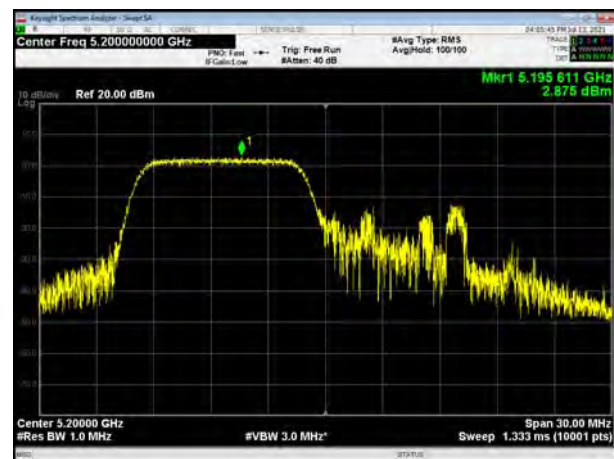
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802.11ax HE20 242Tone: 5180



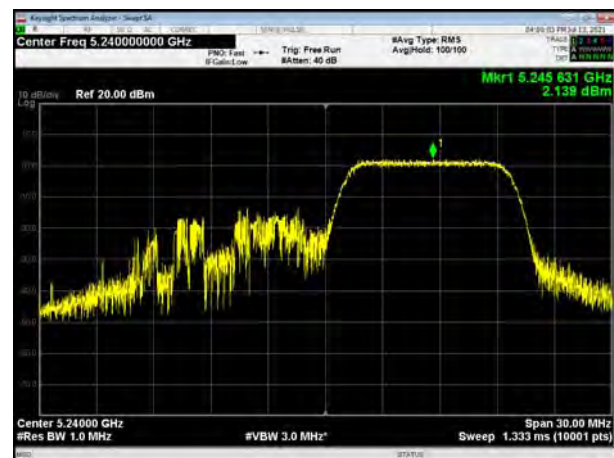
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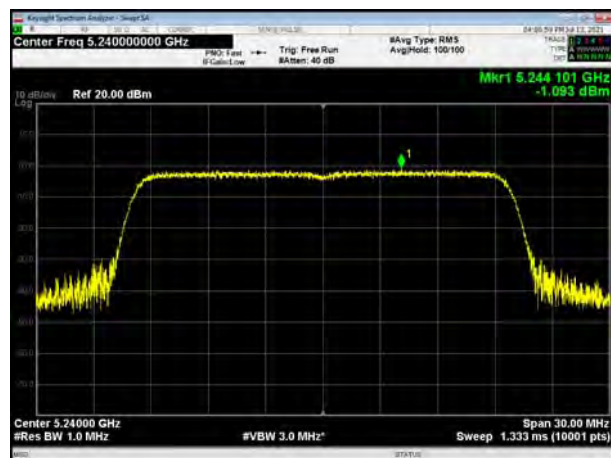
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802.11ax HE20 106Tone: 5240

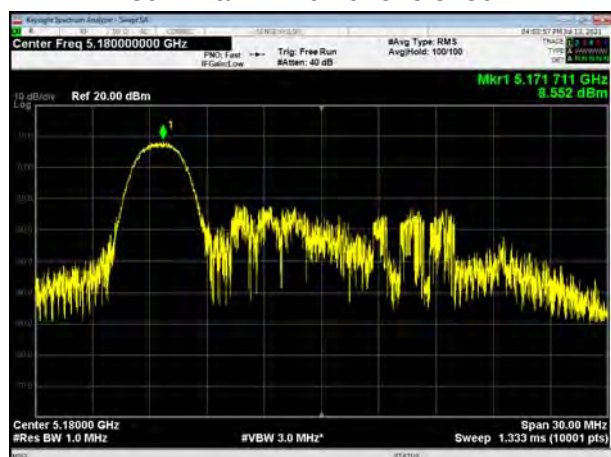


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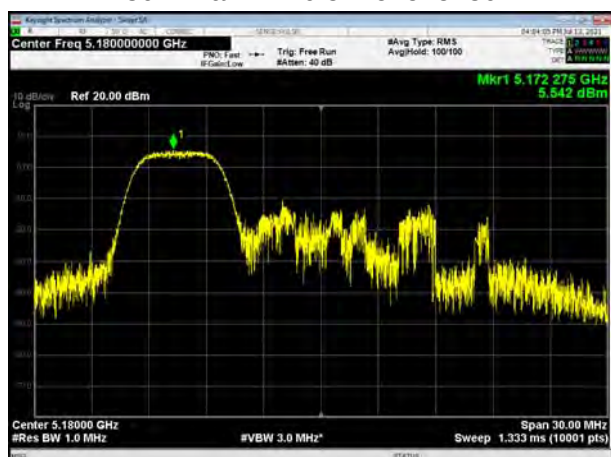




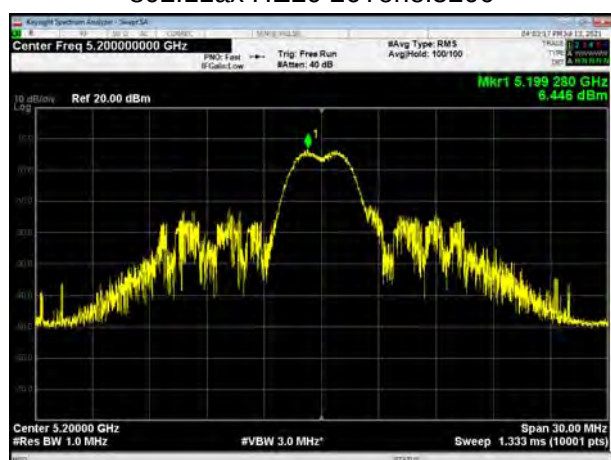
802.11ax HE20 26Tone:5180



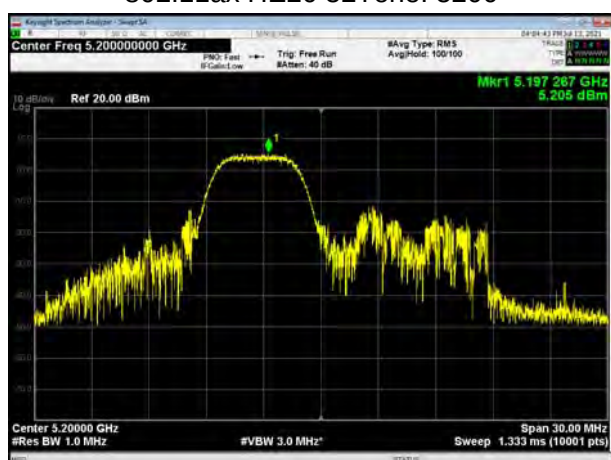
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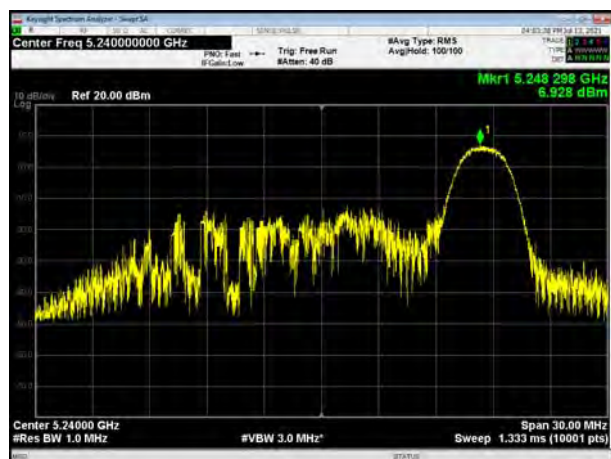
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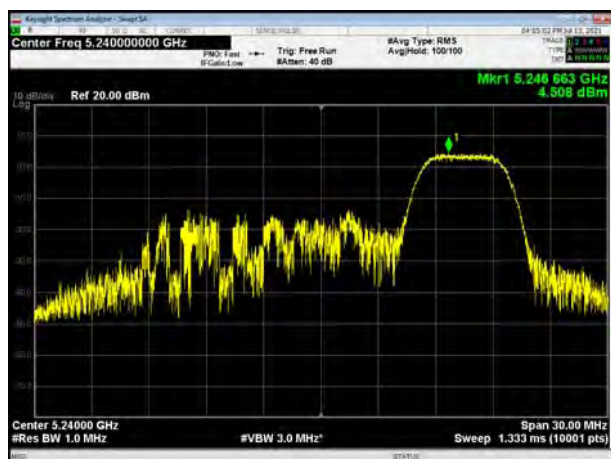
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802.11ax HE20 52Tone: 5240





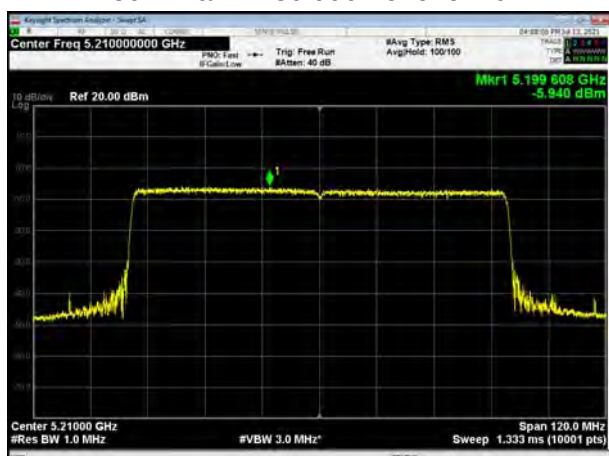
802.11ax HE40 484Tone: 5190



802.11ax HE40 484Tone: 5230



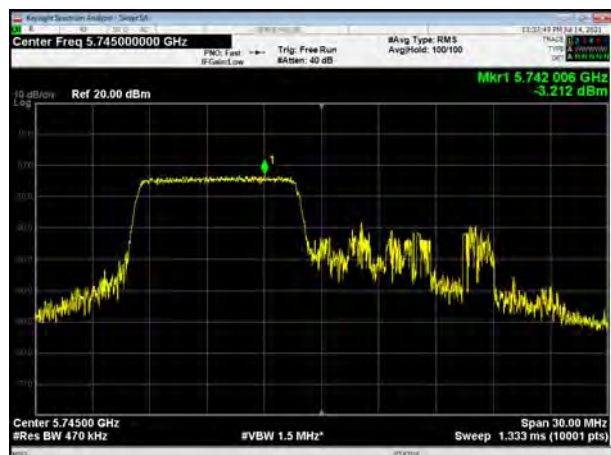
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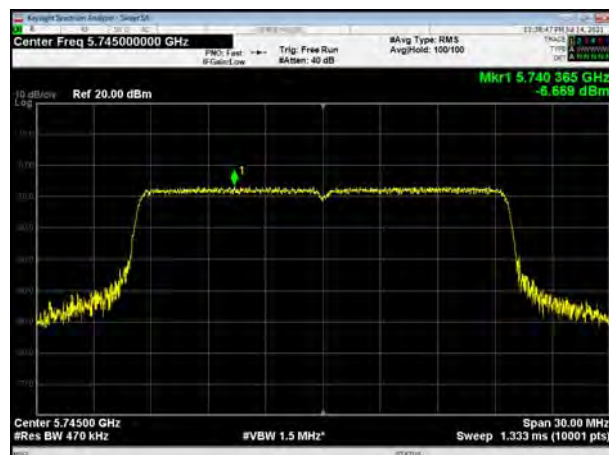


UNII-3

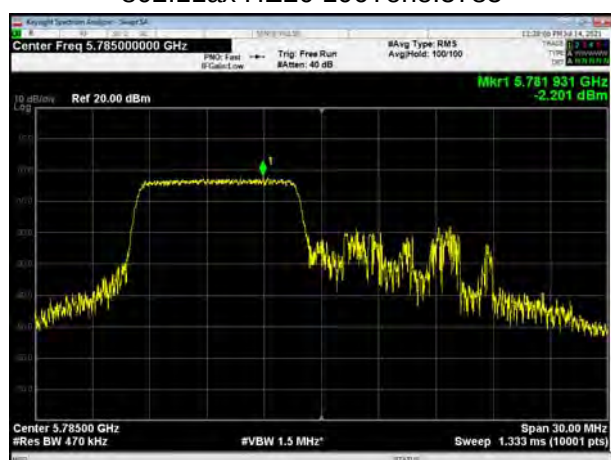
802.11ax HE20 106Tone:5745



802.11ax HE20 242Tone: 5745



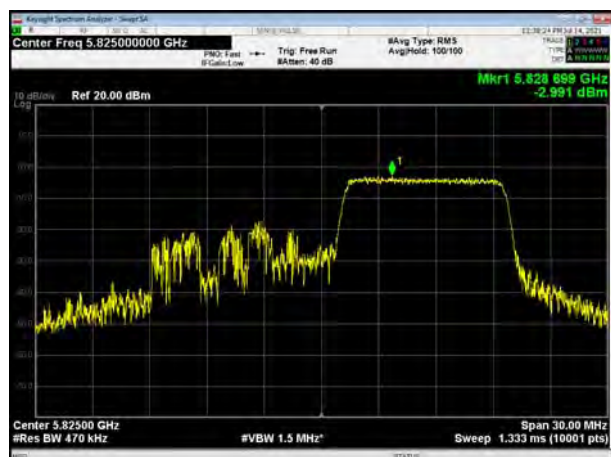
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802.11ax HE20 242Tone: 5785



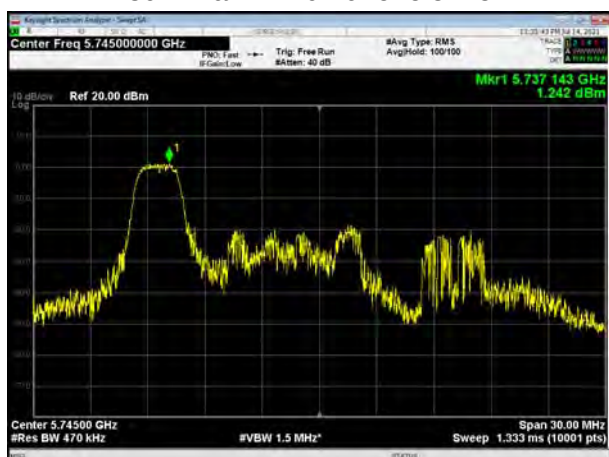
802.11ax HE20 106Tone: 5825



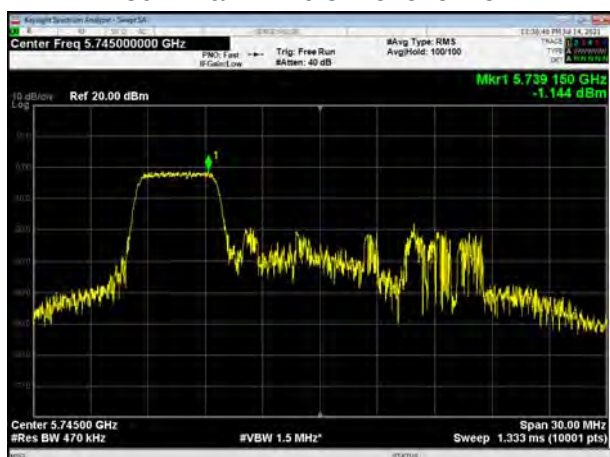
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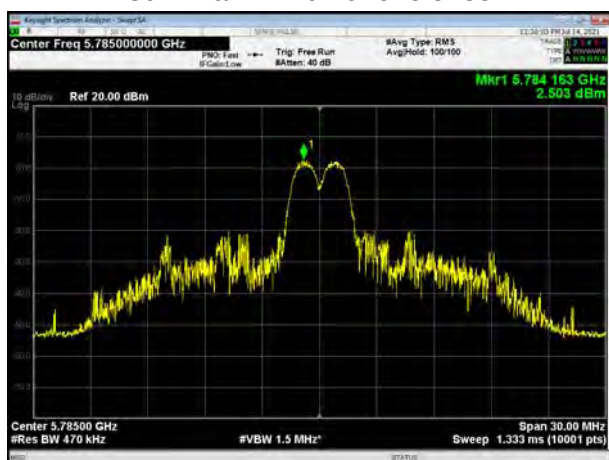
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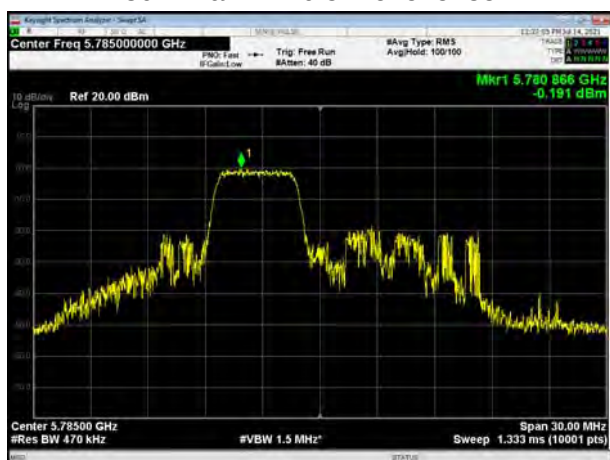
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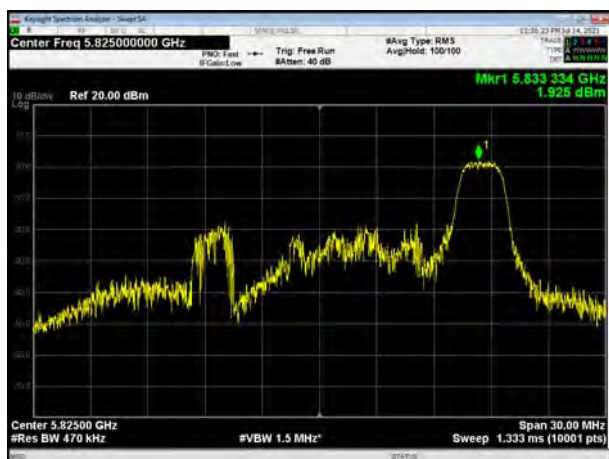
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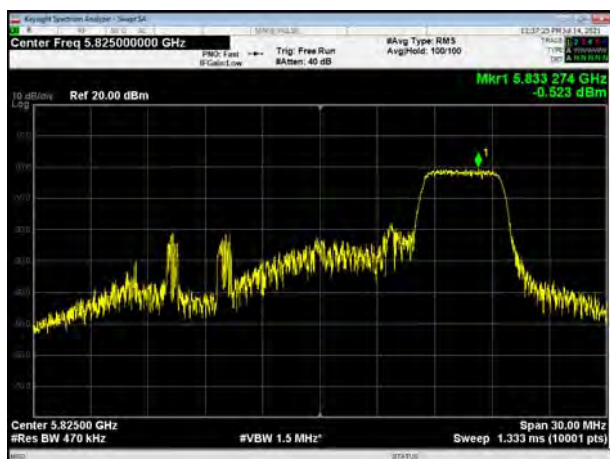
802.11ax HE20 52Tone: 5785



802.11ax HE20 26Tone: 5825

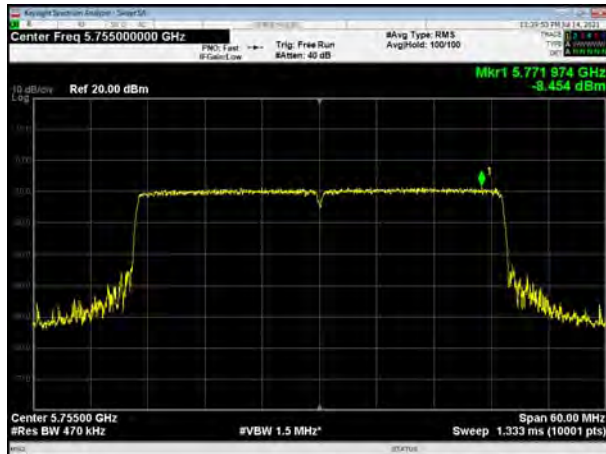


802.11ax HE20 52Tone: 5825





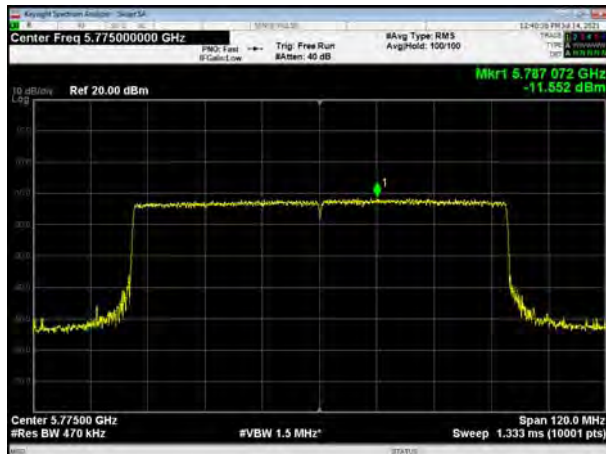
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802.11ax HE40 484Tone: 5795



802.11ax HE80 996 Tone: 5775

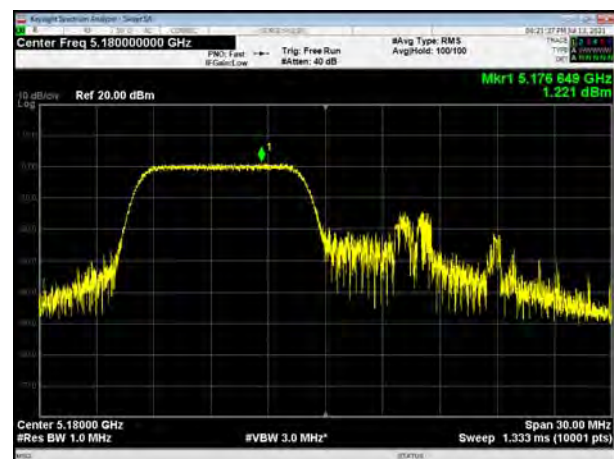




MIMO Antenna 1

UNII-1

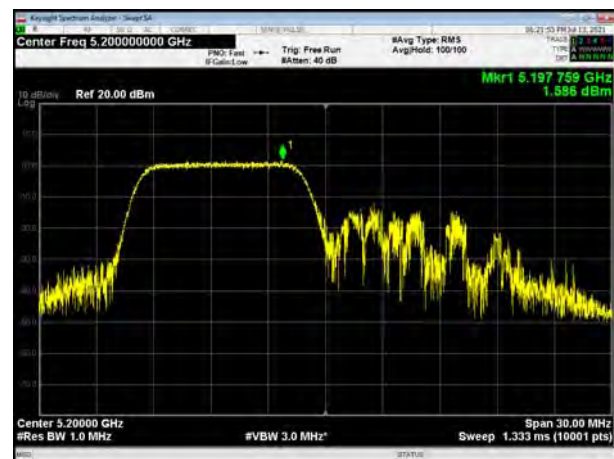
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802.11ax HE20 242Tone: 5180



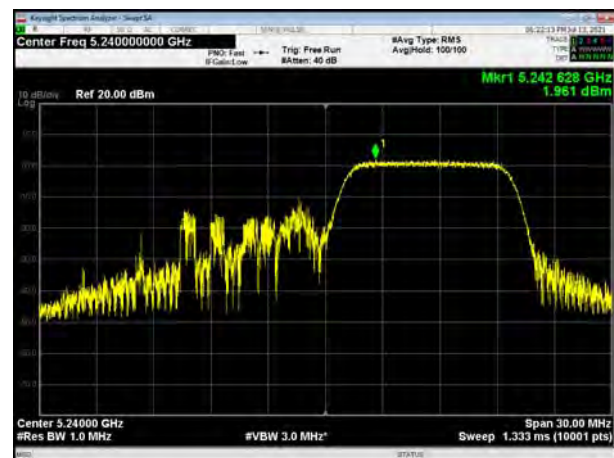
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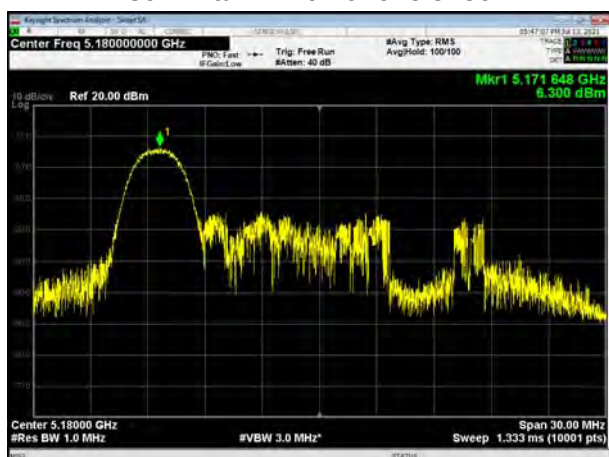
802.11ax HE20 106Tone: 5240



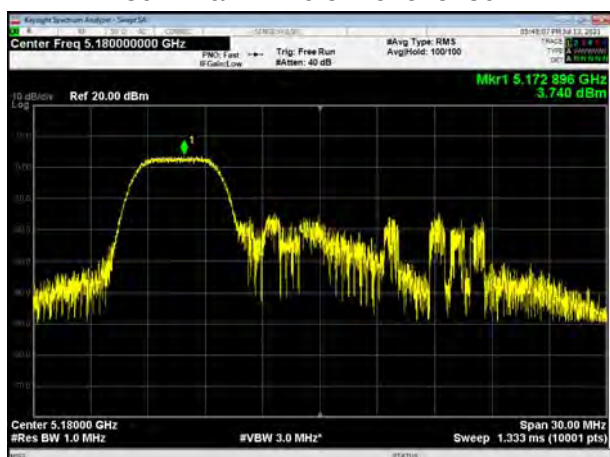
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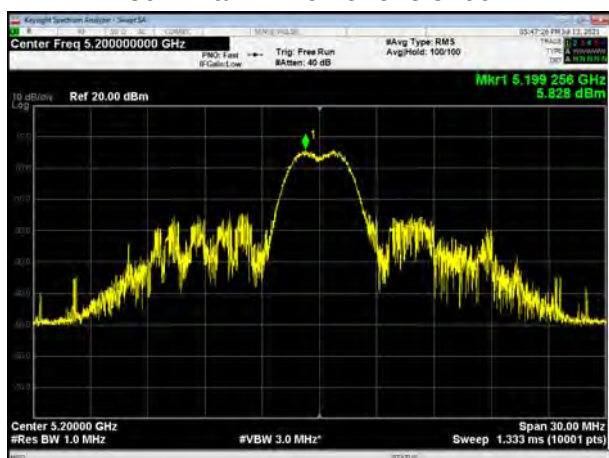
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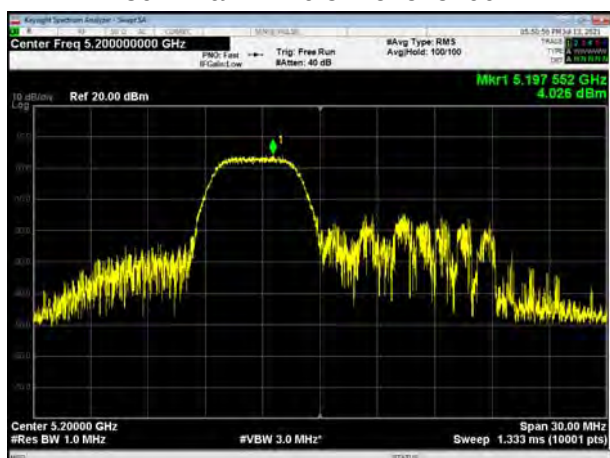
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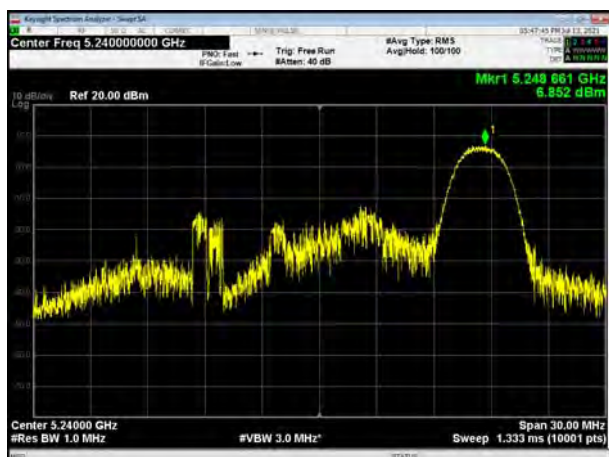
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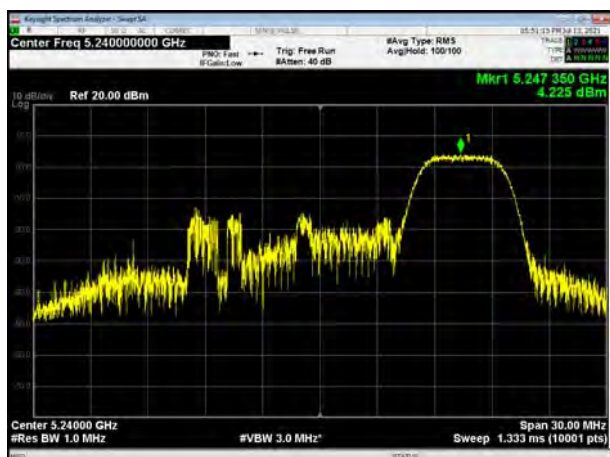
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802.11ax HE20 26Tone: 5240



802.11ax HE20 52Tone: 5240





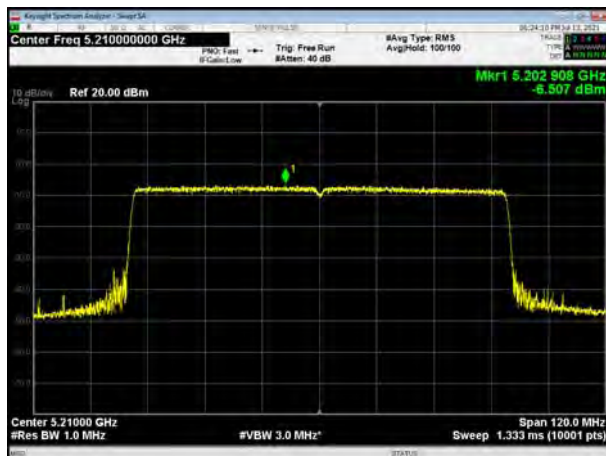
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802.11ax HE40 484Tone: 5230



802.11ax HE80 996 Tone: 5210





UNII-3

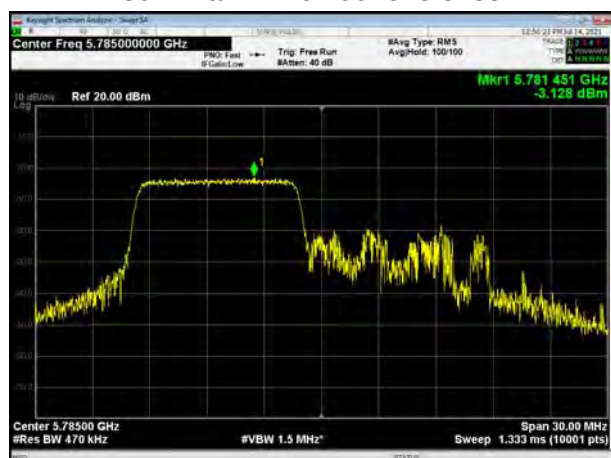
802.11ax HE20 106Tone:5745



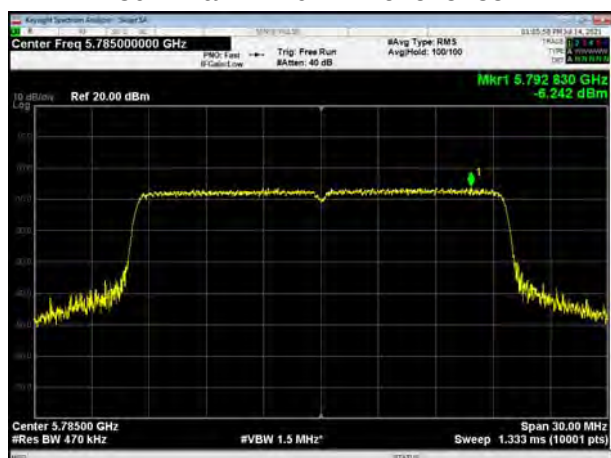
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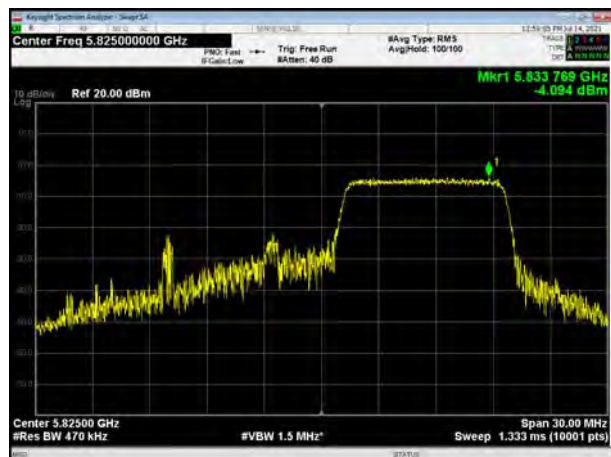
802.11ax HE20 106Tone:5785



802.11ax HE20 242Tone: 5785



802.11ax HE20 106Tone: 5825

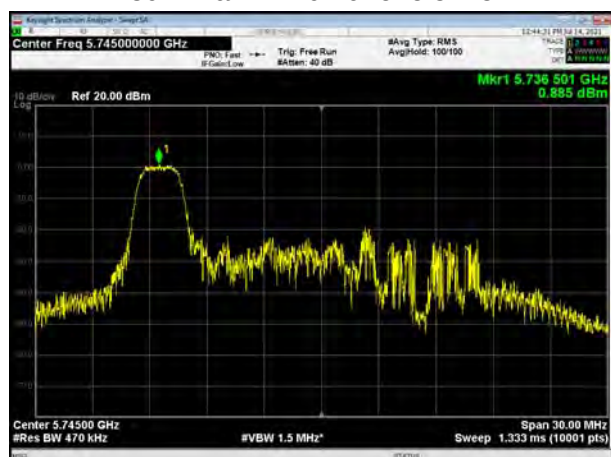


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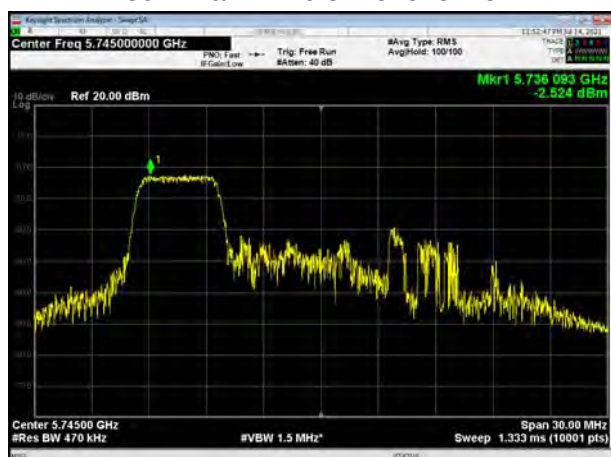




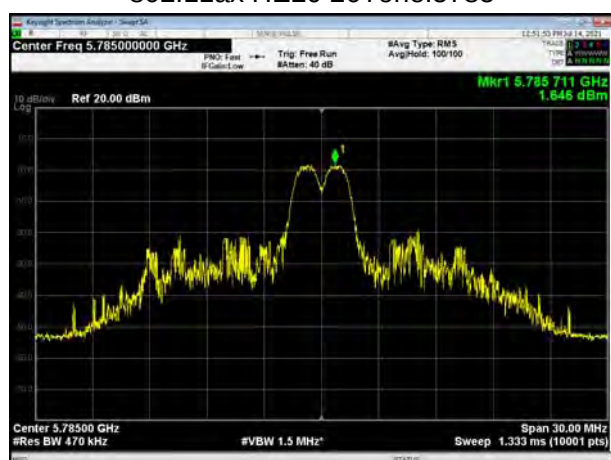
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802.11ax HE20 52Tone: 5745



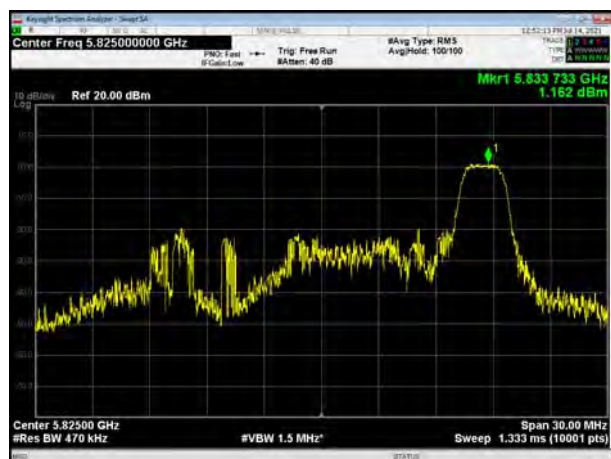
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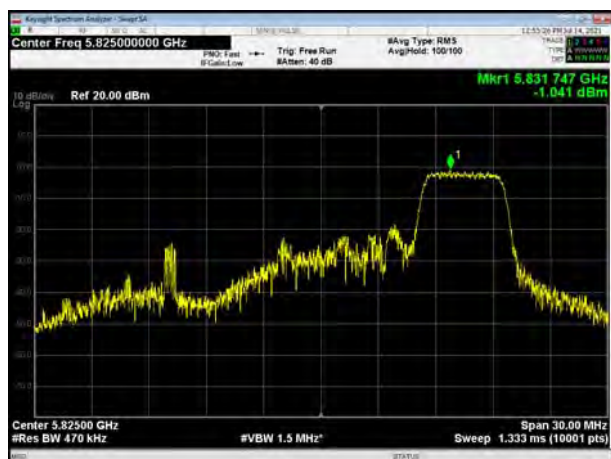
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802.11ax HE20 26Tone: 5825



802.11ax HE20 52Tone: 5825





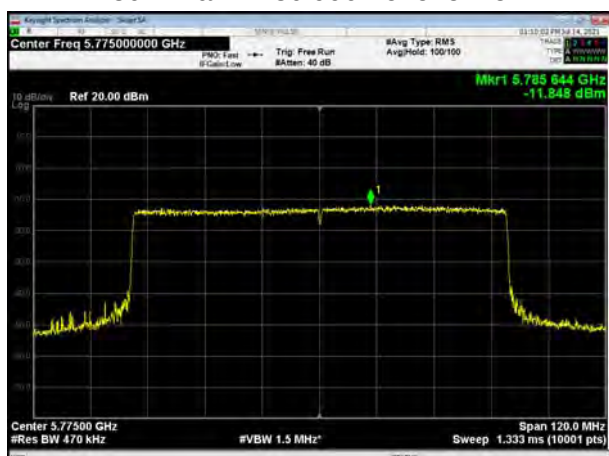
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802.11ax HE40 484Tone: 5795



802.11ax HE80 996 Tone: 5775

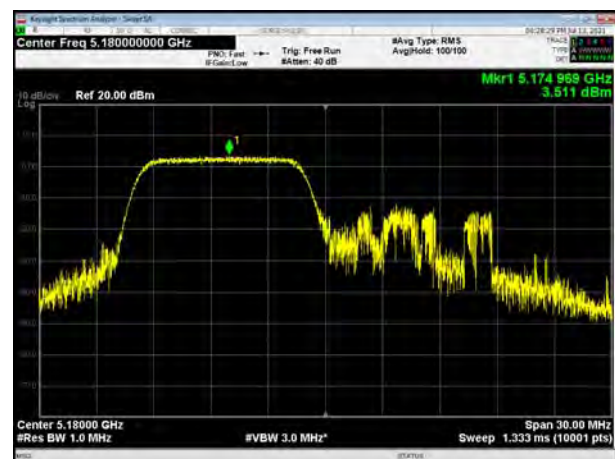




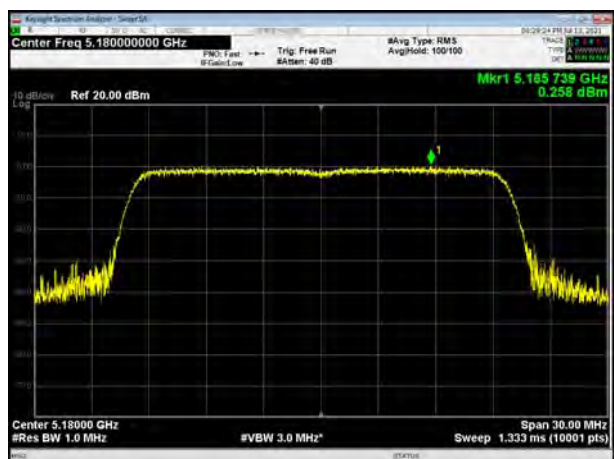
MIMO Antenna 2

UNII-1

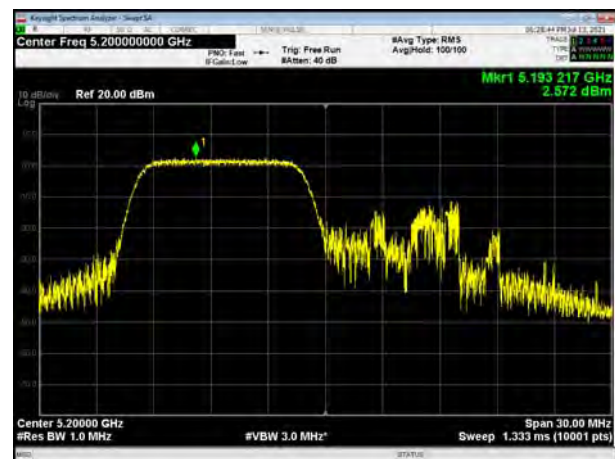
802.11ax HE20 106Tone:5180



802.11ax HE20 242Tone: 5180



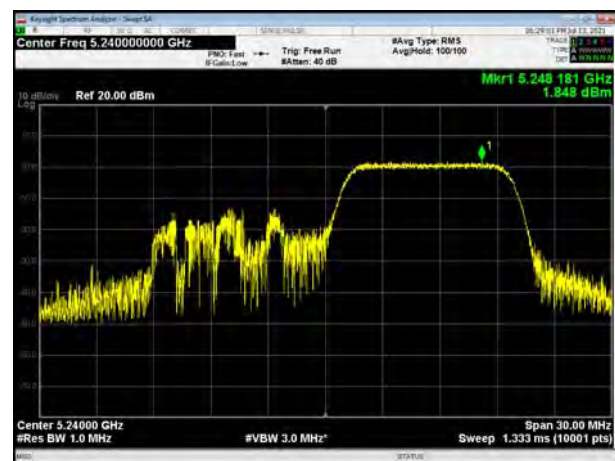
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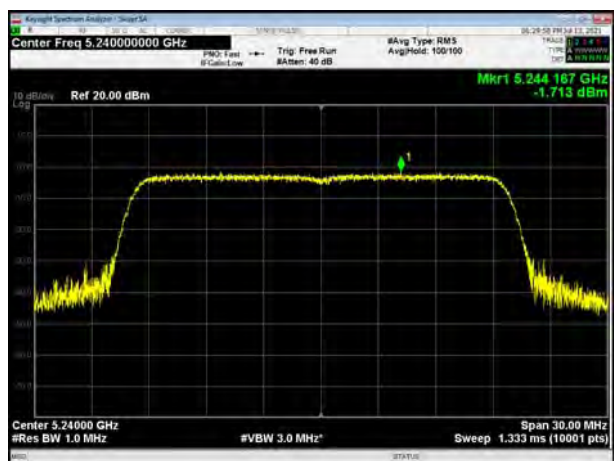
802.11ax HE20 242Tone: 5200



802.11ax HE20 106Tone: 5240

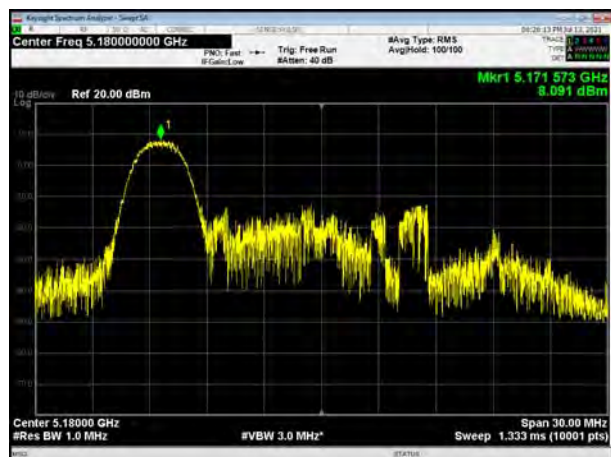


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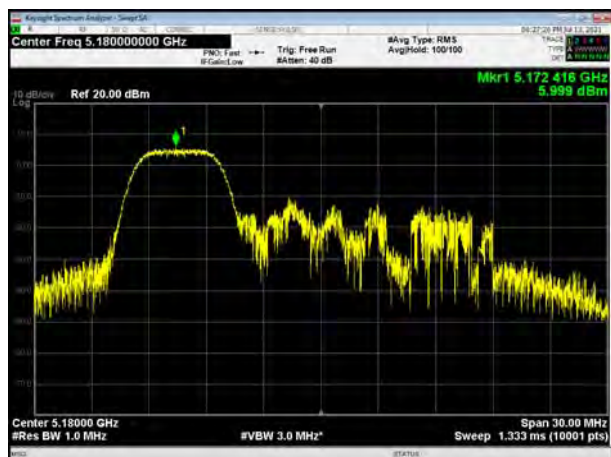




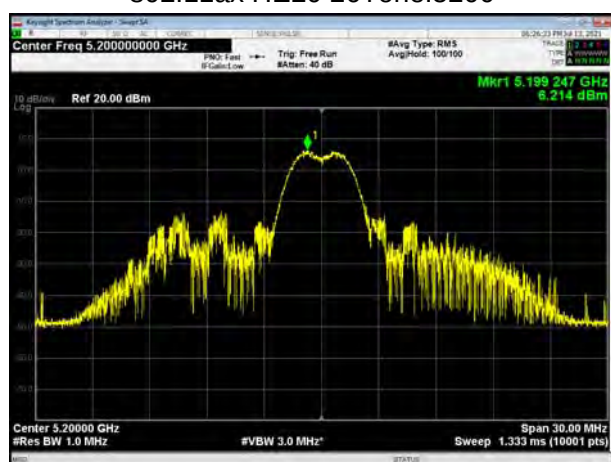
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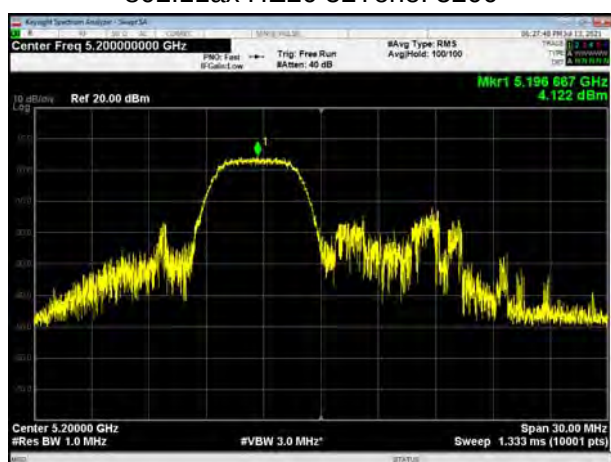
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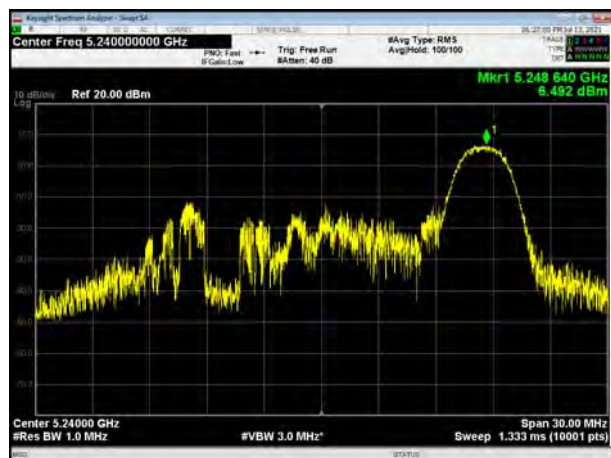
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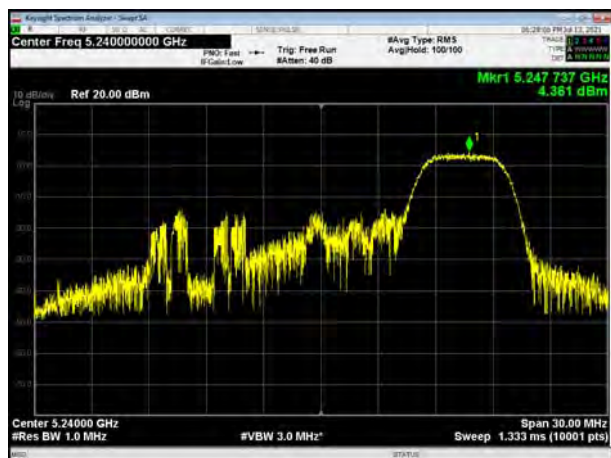
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802.11ax HE20 26Tone: 5240

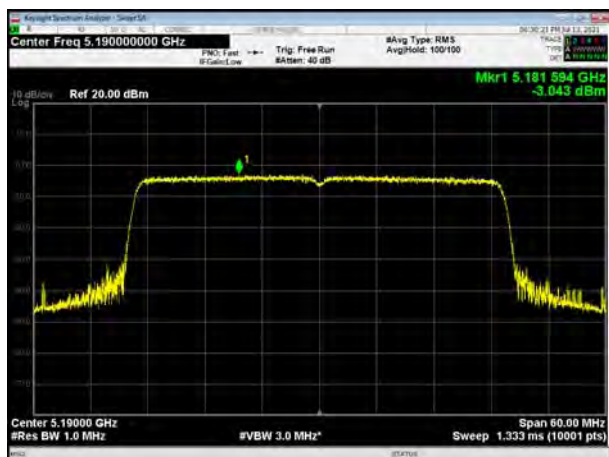


802.11ax HE20 52Tone: 5240

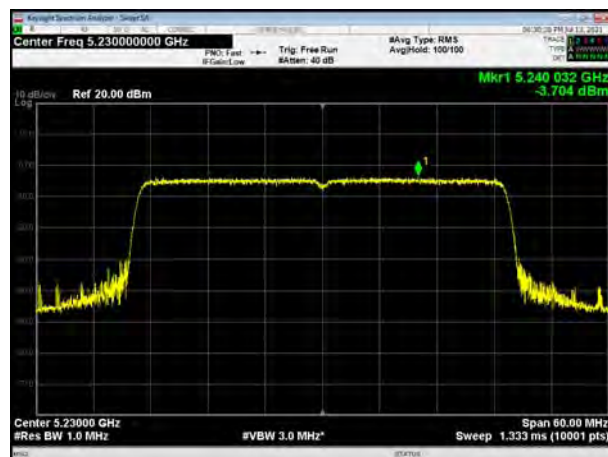




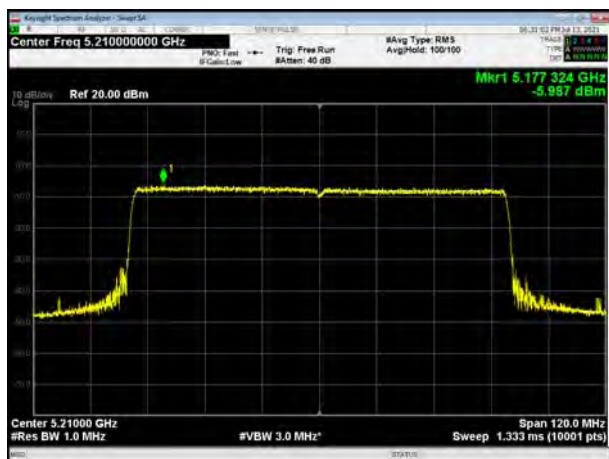
802.11ax HE40 484Tone: 5190



802.11ax HE40 484Tone: 5230



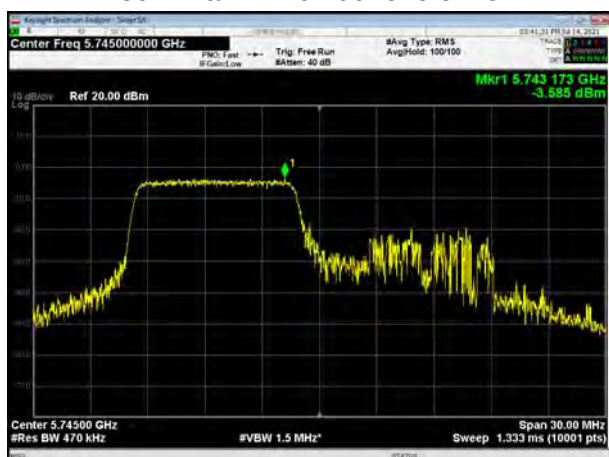
802.11ax HE80 996 Tone: 5210





MIMO Antenna 2

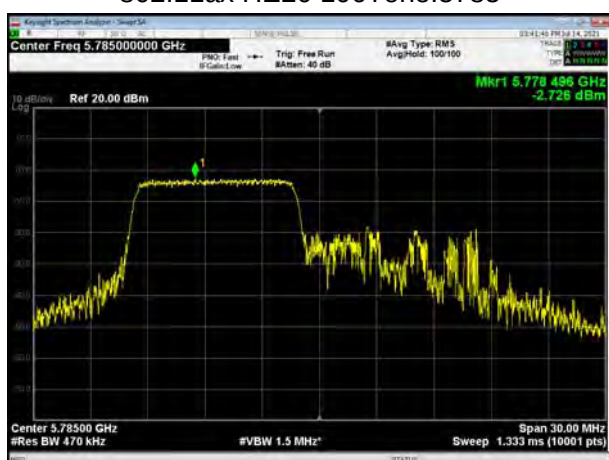
802.11ax HE20 106Tone:5745



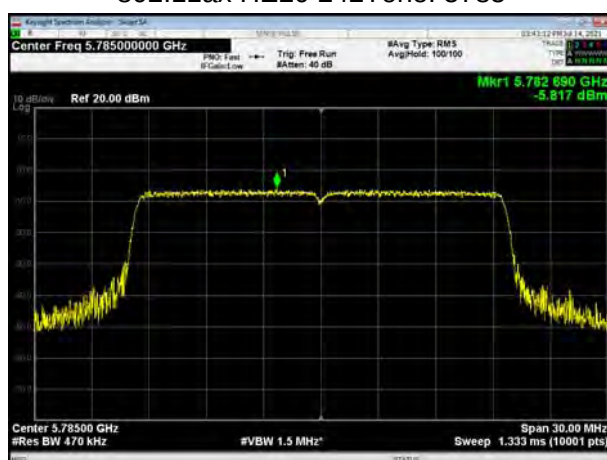
802.11ax HE20 242Tone: 5745



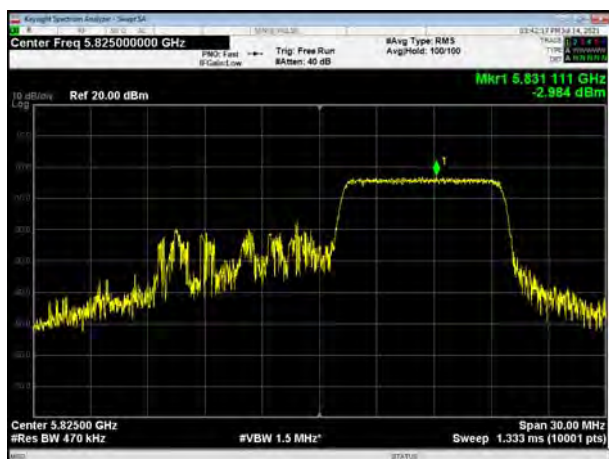
802.11ax HE20 106Tone:5785



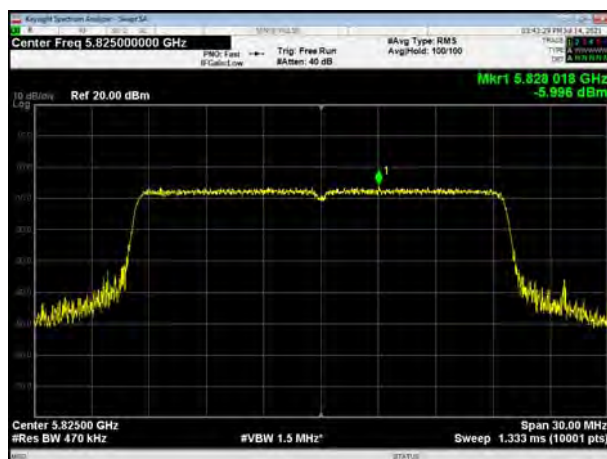
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802.11ax HE20 106Tone: 5825

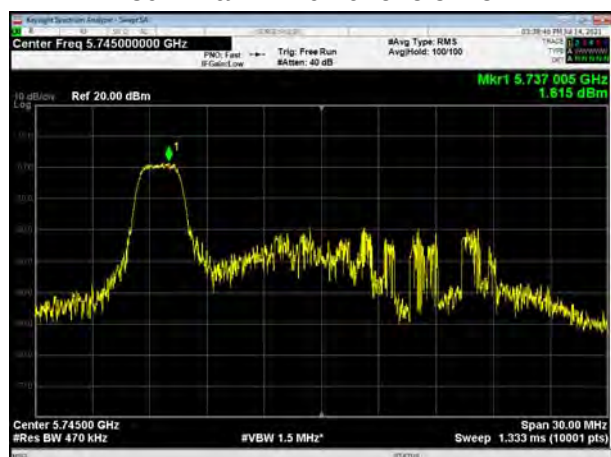


802.11ax HE20 242Tone: 5825

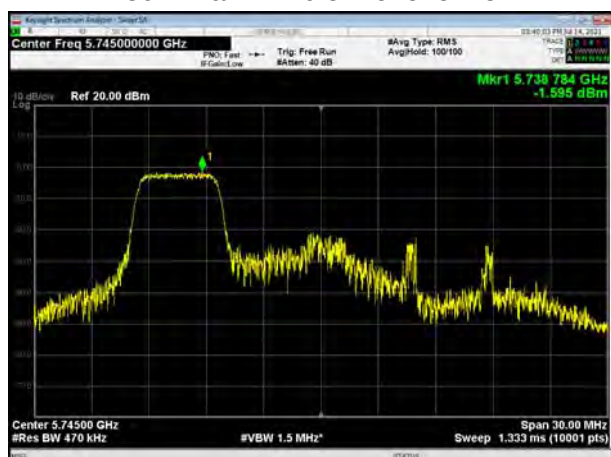




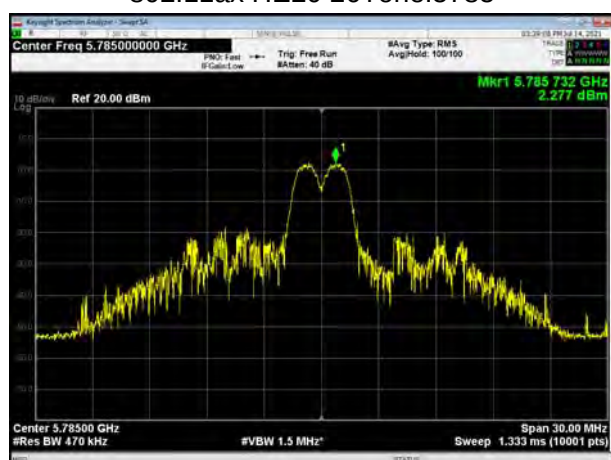
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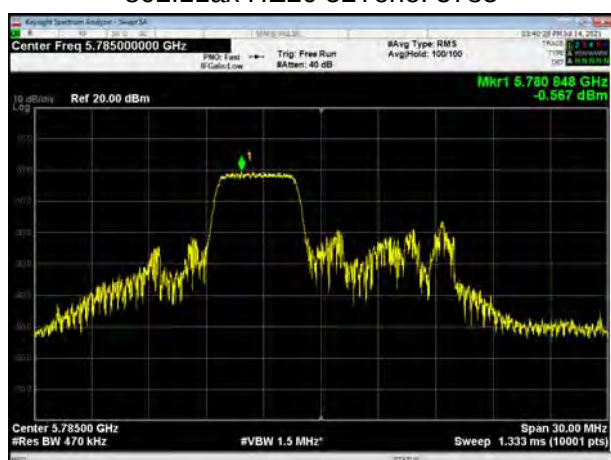
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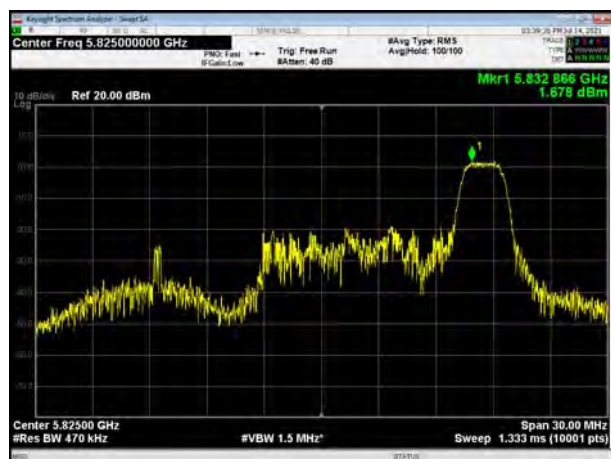
802.11ax HE20 26Tone:5785



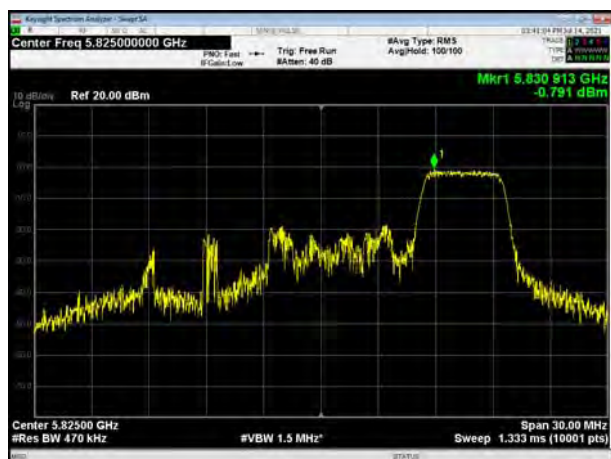
802.11ax HE20 52Tone: 5785



802.11ax HE20 26Tone: 5825



802.11ax HE20 52Tone: 5825





802.11ax HE40 484Tone: 5755



802.11ax HE40 484Tone: 5795



802.11ax HE80 996 Tone: 5775





5.5. Unwanted Emission

Ambient condition

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

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10. 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 radiated emissions measurements were made in a typical installation configuration.

Sweep the whole frequency band range from 9kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. 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.

Set the spectrum analyzer in the following:

9kHz~150 kHz

RBW=200Hz, VBW=1kHz/ Sweep=AUTO

150 kHz~30MHz

RBW=9KHz, VBW=30KHz,/ Sweep=AUTO

Below 1GHz

RBW=100kHz / VBW=300kHz / Sweep=AUTO

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

Above 1GHz

PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO

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

Above 1GHz

AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

c) Detector: The measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

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:

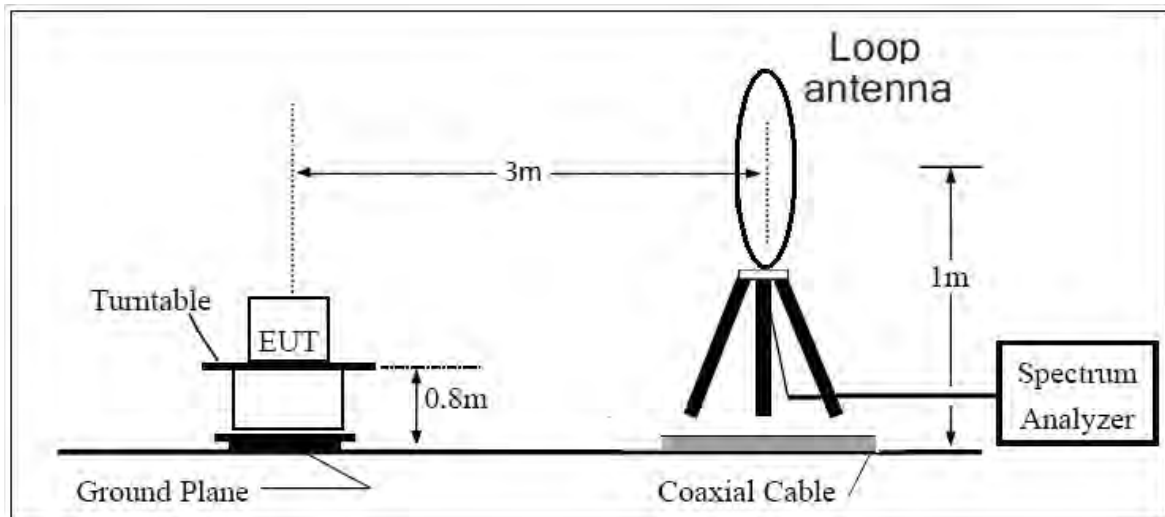
- 1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is $[10 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.
- 2) If linear voltage averaging mode was used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

Reduce the video bandwidth until no significant variations in the displayed signal are observed in subsequent traces, provided the video bandwidth is no less than 1 Hz. For regulatory requirements that specify averaging only over the transmit duration (e.g., digital transmission system [DTS] and Unlicensed National Information Infrastructure [U-NII]), the video bandwidth shall be greater than $[1 / (\text{minimum transmitter on time})]$ and no less than 1 Hz.

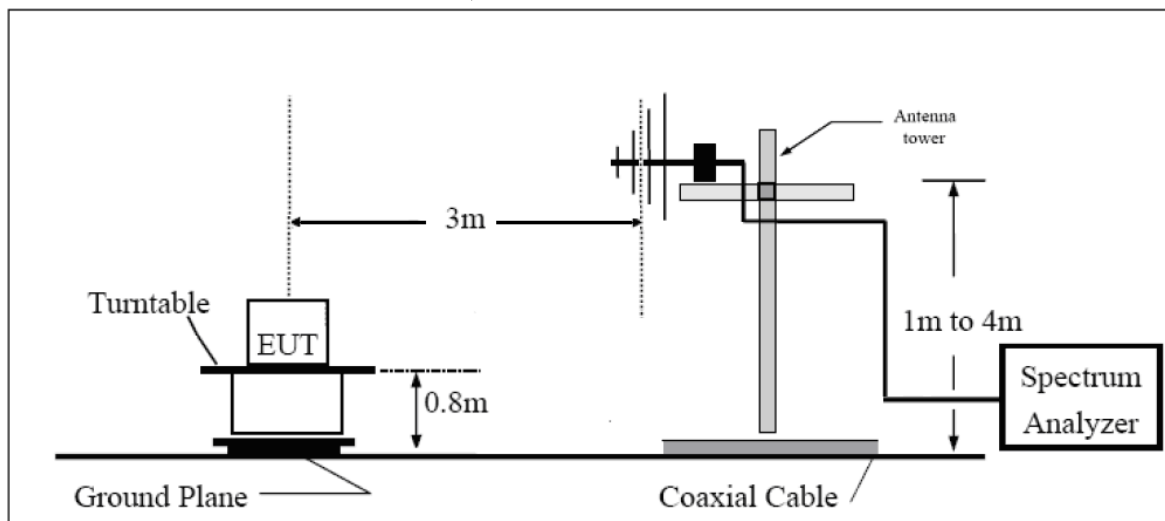
The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the loop antenna is vertical, others antenna are vertical and horizontal.

The test is in transmitting mode.

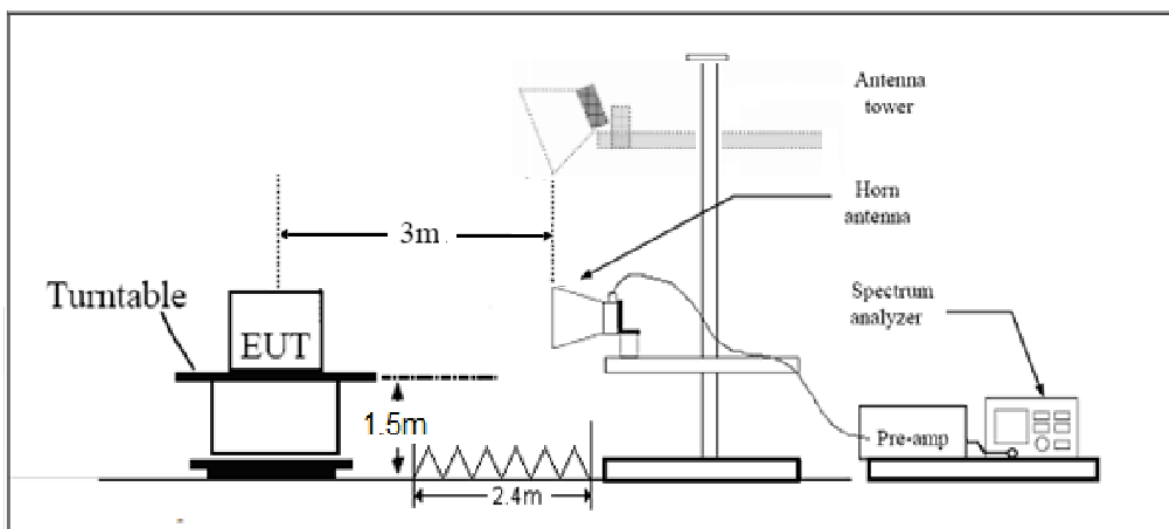
9KHz~~~30MHz



30MHz~~~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

**Limits**

- (1) For transmitters operating in the 5725-5850 MHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (2) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).
- (3) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).
- (4) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).

Note: the following formula is used to convert the EIRP to field strength

§1、 $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{meters}]) + 104.77$, where E = field strength and

d = distance at which field strength limit is specified in the rules;

§2、 $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2$, for d = 3 meters

- (5) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table.

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

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 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 $k = 1.96$.

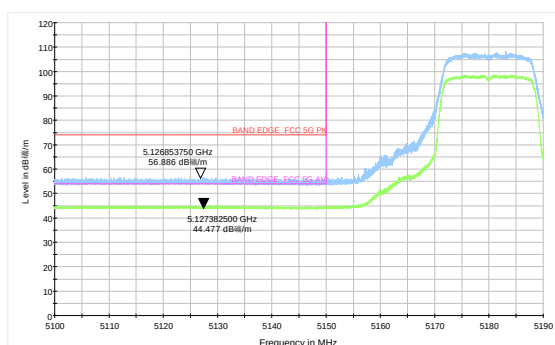
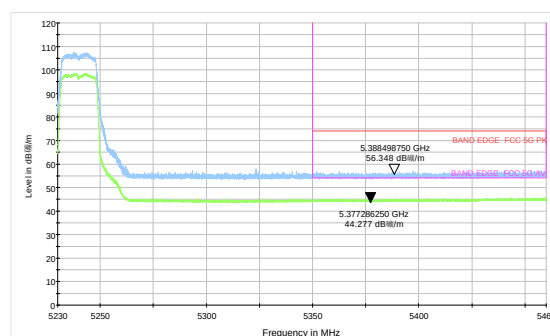
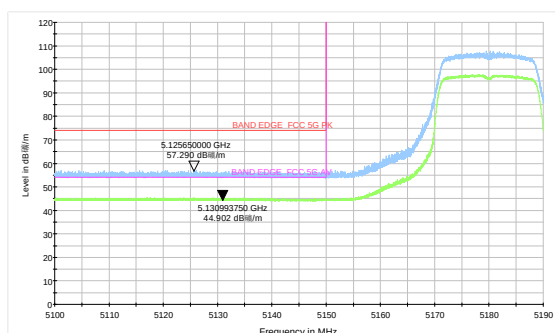
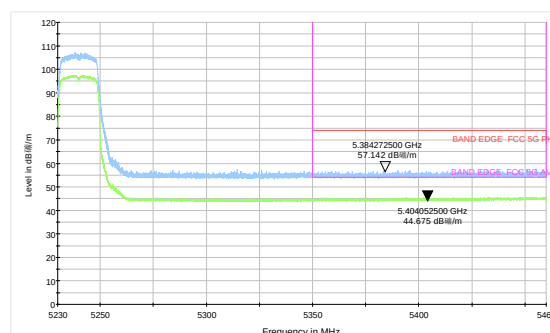
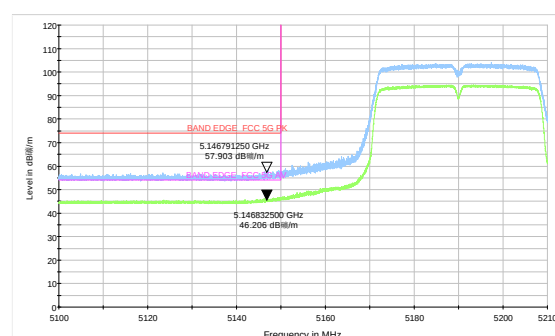
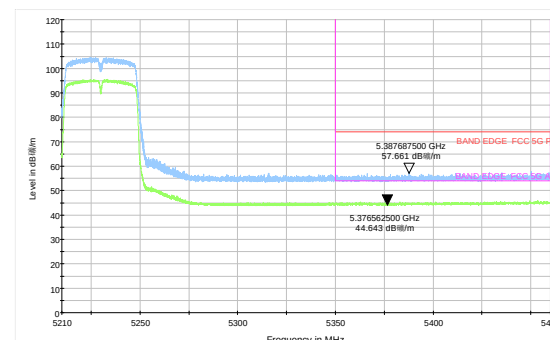
Frequency	Uncertainty
9KHz-30MHz	3.55 dB
30MHz-200MHz	4.17 dB
200MHz-1GHz	4.84 dB
1-18GHz	4.35 dB
18-26.5GHz	5.90 dB
26.5GHz~40GHz	5.92 dB

**Test Results:**

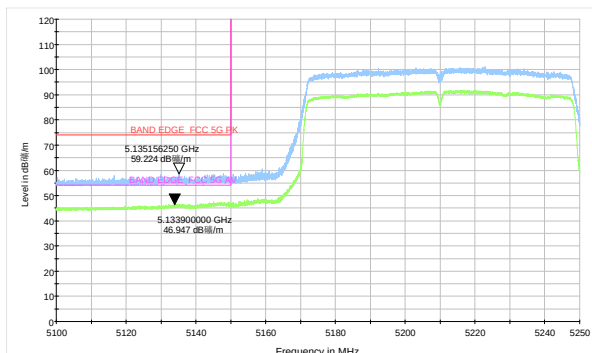
The signal beyond the limit is carrier.

A font (dB_{μV/m})in the test plot =(dB_{μV/m})

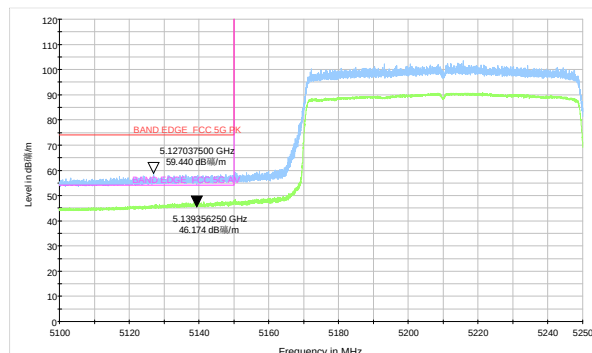
A font (dB_{V/m})in the test plot =(dB_{μV/m})

U-NII-1**802.11a-Channel 36: Peak & Average****802.11a-Channel 48: Peak & Average****802.11n HT20-Channel 36: Peak & Average****802.11n HT20-Channel 48: Peak & Average****802.11n HT40-Channel 38: Peak & Average****802.11n HT40-Channel 46: Peak & Average**

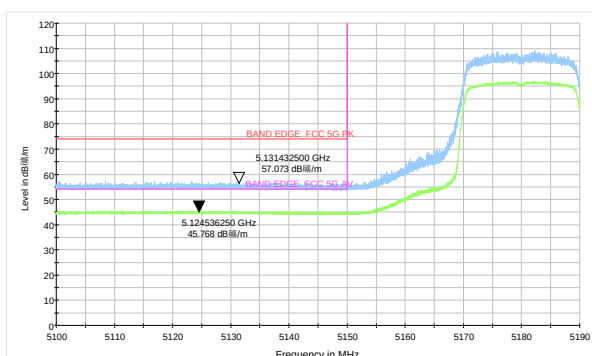
802.11ac VHT80 –Channel 42:Peak & Average



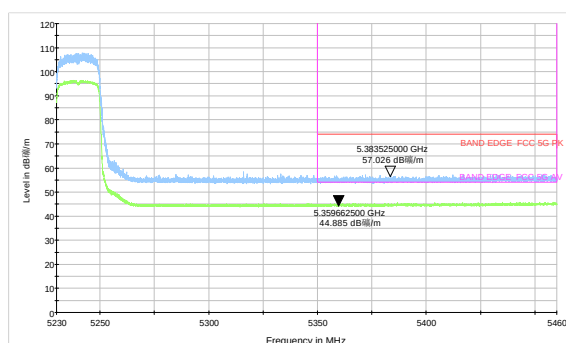
802.11ax HE80 –Channel 42:Peak & Average



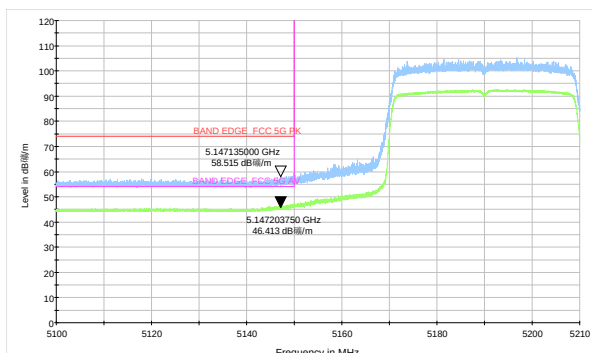
802.11ax HE20-Channel 36: Peak & Average



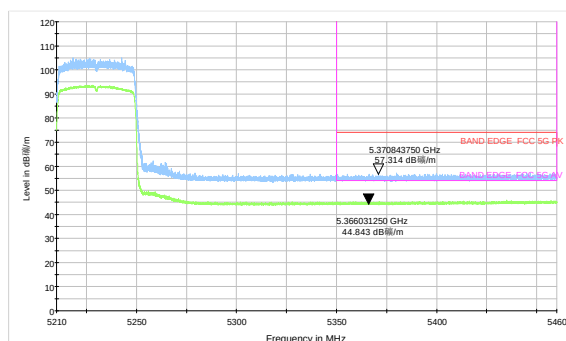
802.11ax HE20 -Channel 48: Peak & Average



802.11ax HE40-Channel 38: Peak & Average



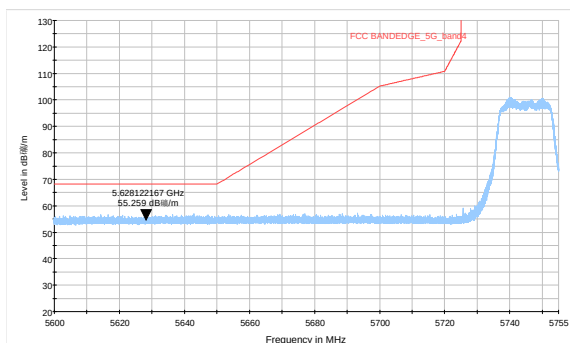
802.11ax HE40 -Channel 46: Peak & Average



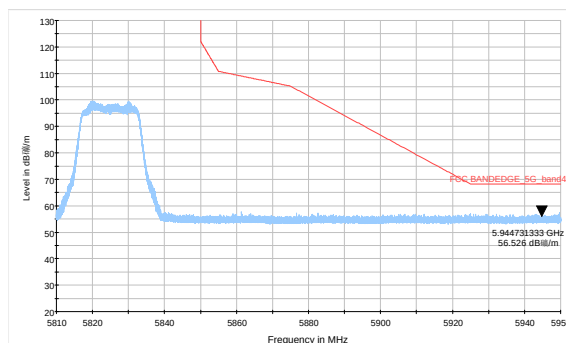


U-NII-3

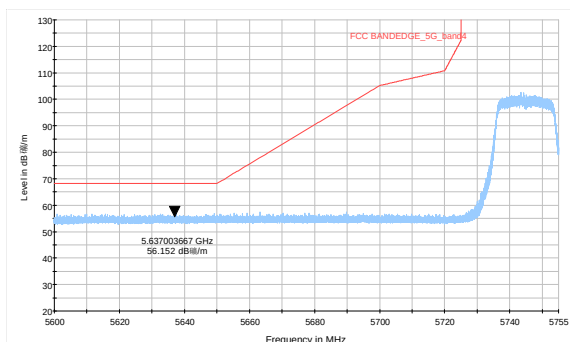
802.11a-Channel 149: Peak & Average



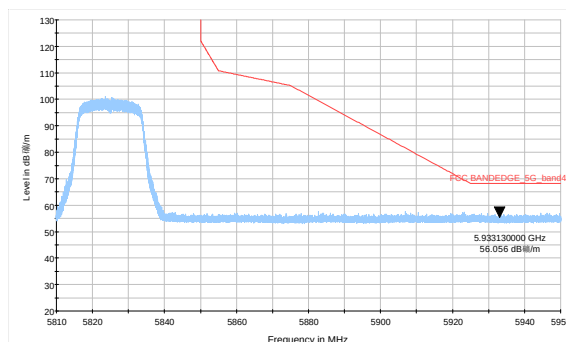
802.11a-Channel 165: Peak & Average



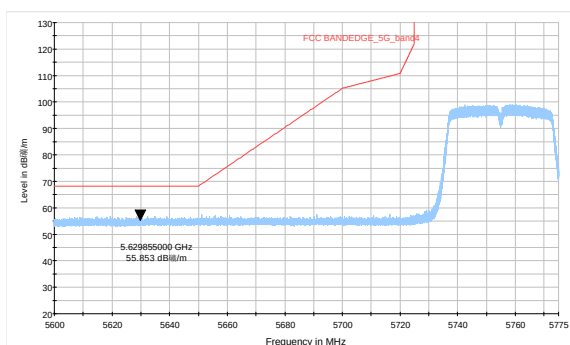
802.11n HT20-Channel 149: Peak & Average



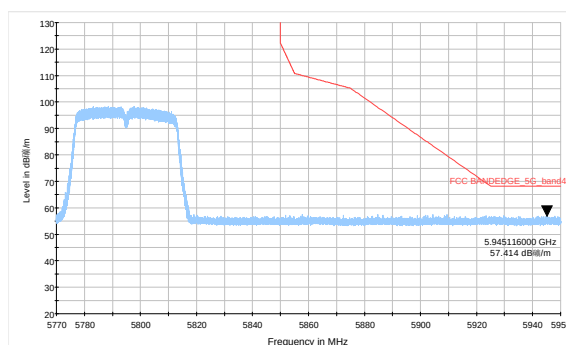
802.11n HT20-Channel 165: Peak & Average



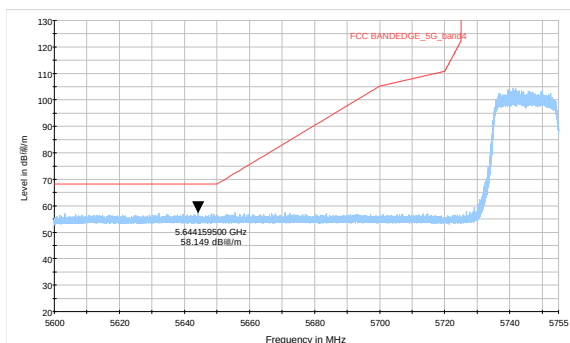
802.11n HT40-Channel 151: Peak & Average



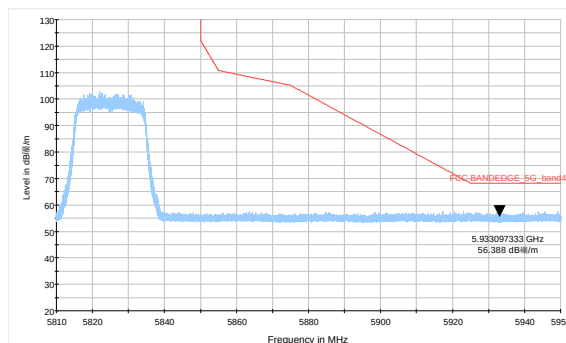
802.11n HT40-Channel 159: Peak & Average

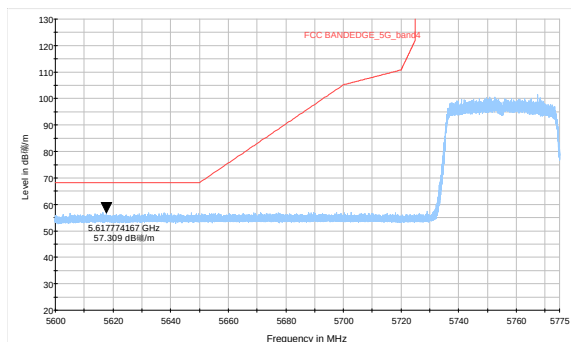
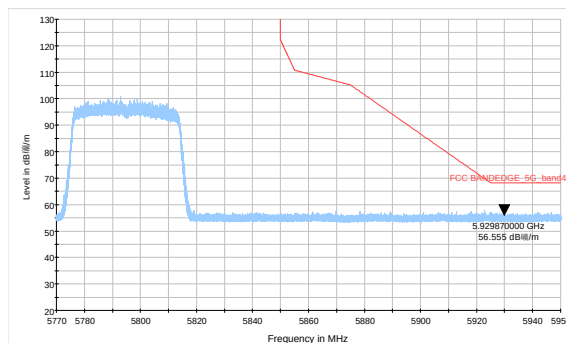
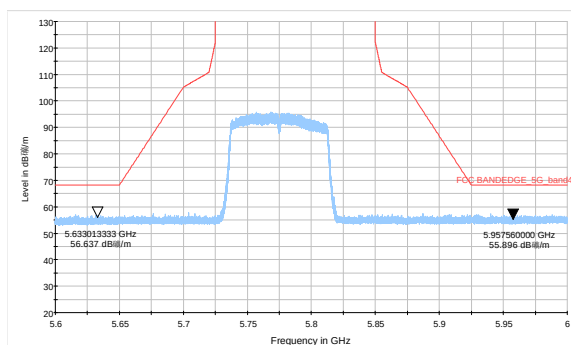
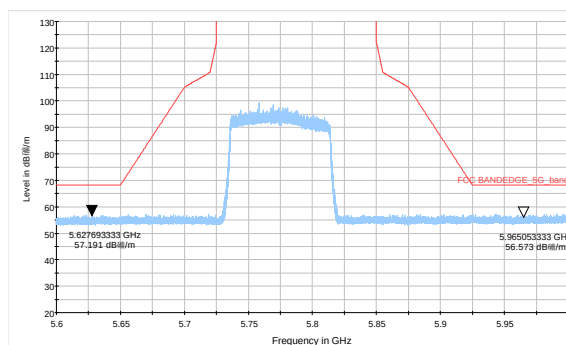


802.11ax HE20-Channel 149: Peak & Average



802.11ax HE20 -Channel 165: Peak & Average



**802.11ax HE40-Channel 151: Peak & Average****802.11ax HE40 -Channel 159: Peak & Average****802.11ac VHT80- Channel 155: Peak & Average****802.11ax HE80- Channel 155: Peak & Average**



Result of RE

Test result

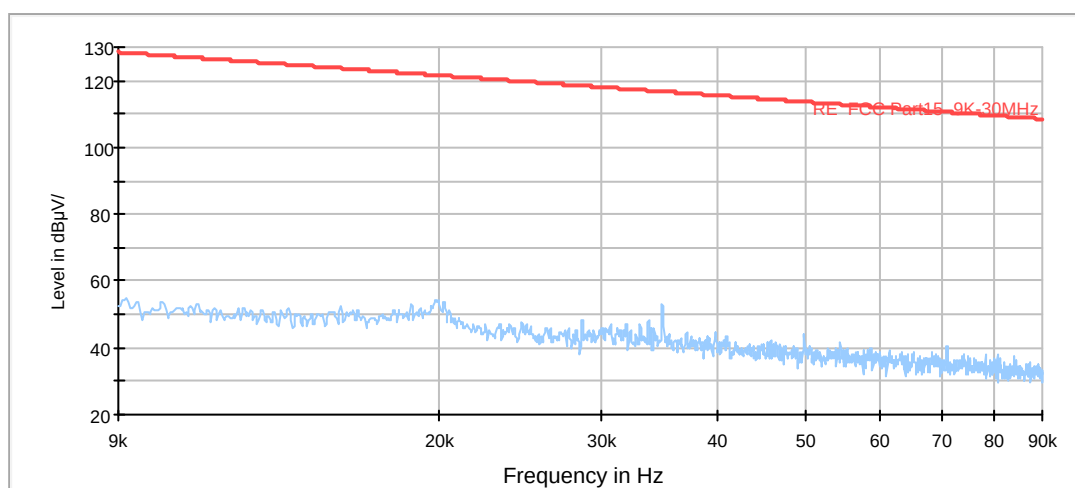
Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the Emissions in the frequency band 9kHz-30MHz and 26.5GHz-40GHz are more than 20dB below the limit are not reported.

After the pretest, MIMO was selected as the worst antenna. SISO Antenna 1 was selected as the worst SISO antenna.

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 802.11ax (HE40) CH38 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

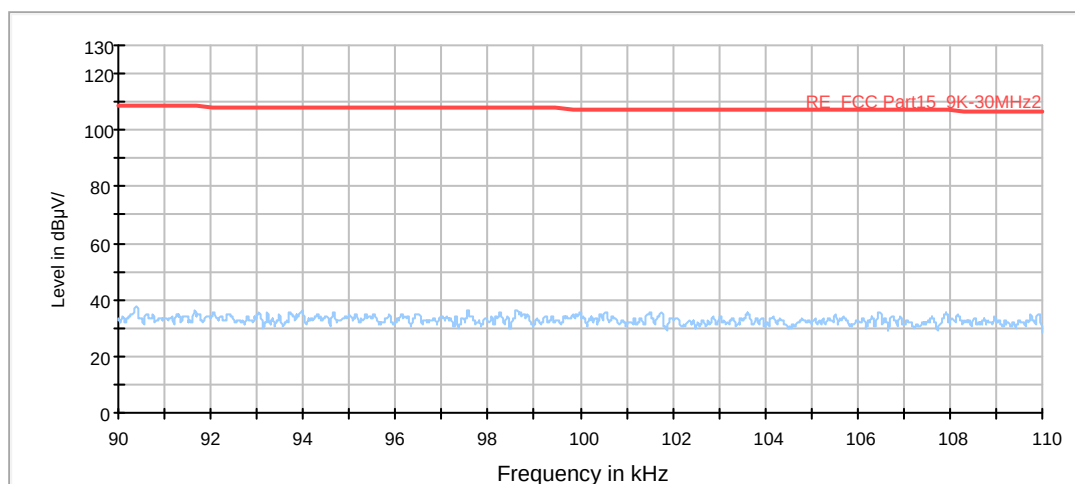
Continuous TX mode:

FCC RE 9K-90KHz AV



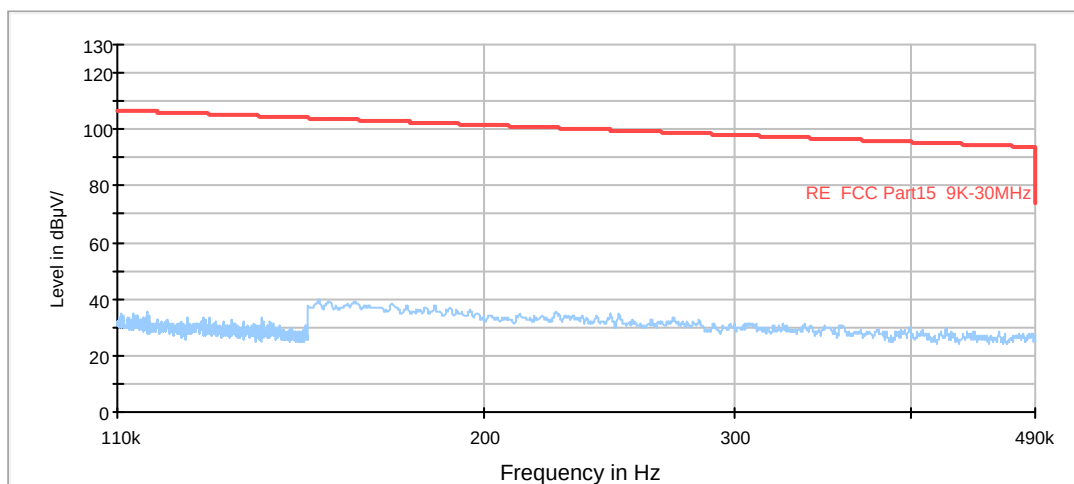
Radiates Emission from 9KHz to 90KHz

FCC RE 90K-110KHz QP



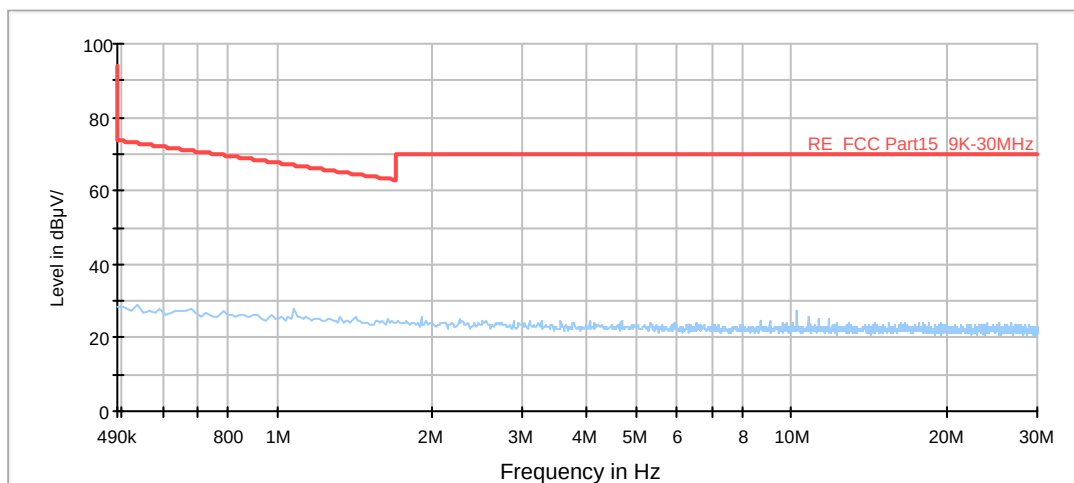
Radiates Emission from 90KHz to 110KHz

FCC RE 110K-490KHz AV

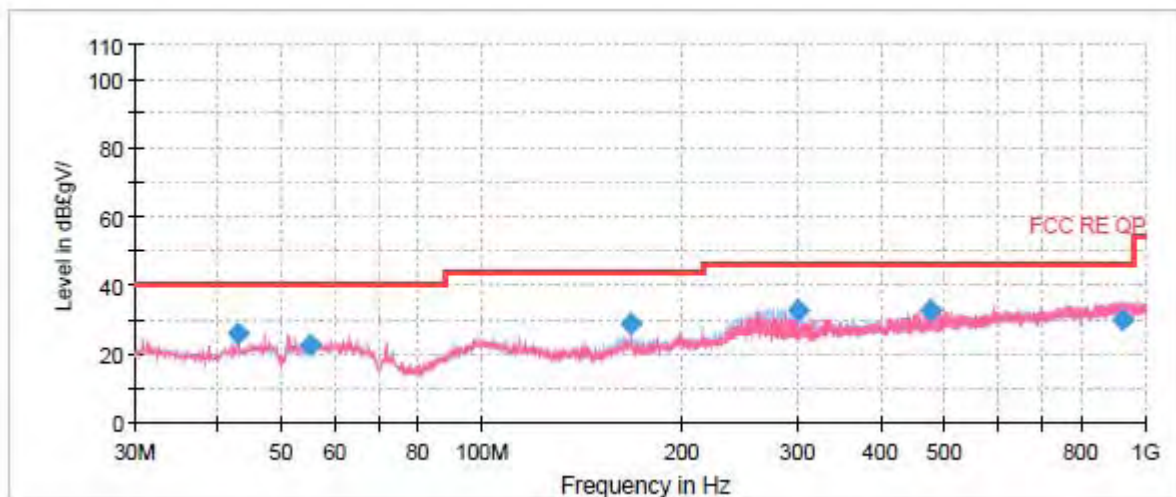


Radiates Emission from 110KHz to 490KHz

FCC RE 490K-30MHz QP



Radiates Emission from 490KHz to 30MHz

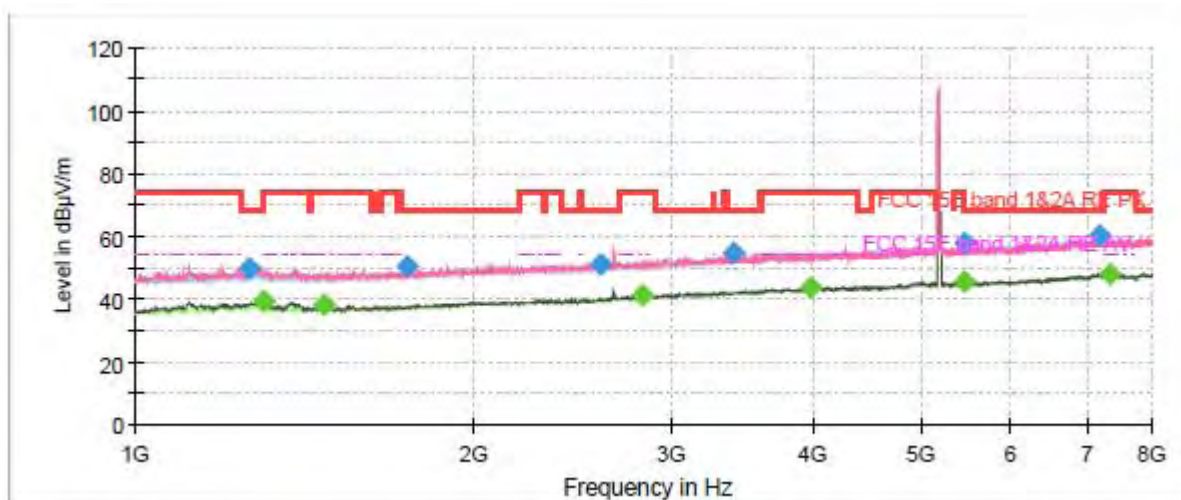


Radiates Emission from 30MHz to 1GHz

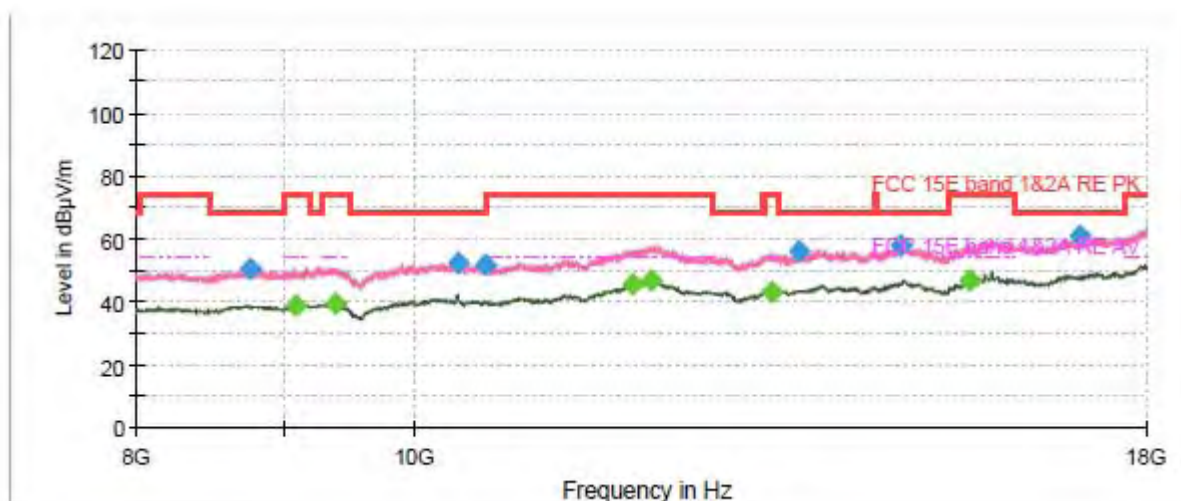
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
42.999850	26.03	125.0	V	76.0	-5.4	13.97	40.00
55.317200	22.66	175.0	V	89.0	-4.8	17.34	40.00
167.972300	28.99	175.0	H	291.0	-8.7	14.51	43.50
298.994000	32.56	100.0	H	76.0	-3.7	13.45	46.00
475.122244	32.77	109.0	V	1.0	-0.2	13.23	46.00
925.638268	30.13	185.0	V	202.0	5.9	15.87	46.00

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)
2. Margin = Limit – Quasi-Peak

802.11a CH36



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



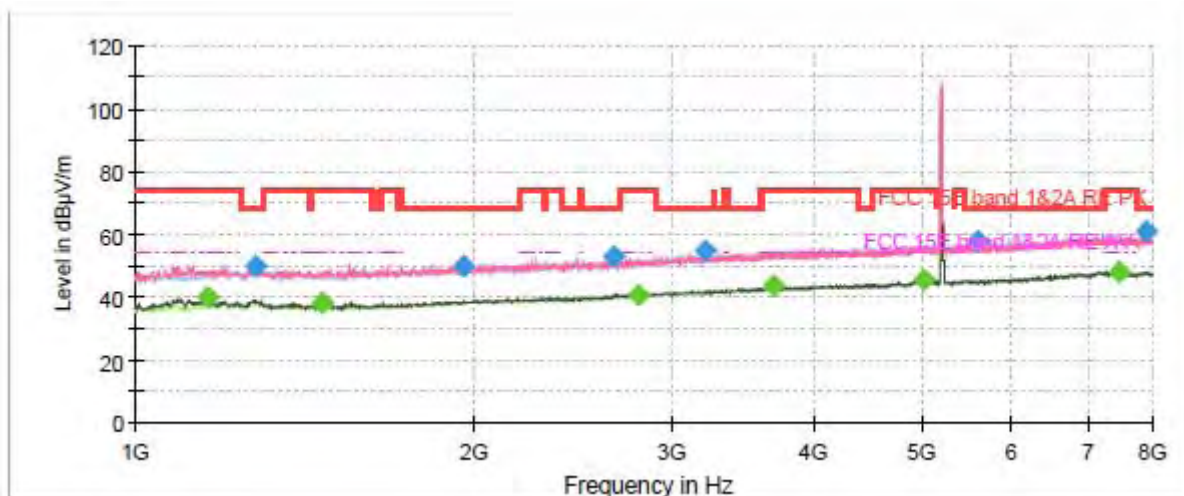
Radiates Emission from 8GHz to 18GHz



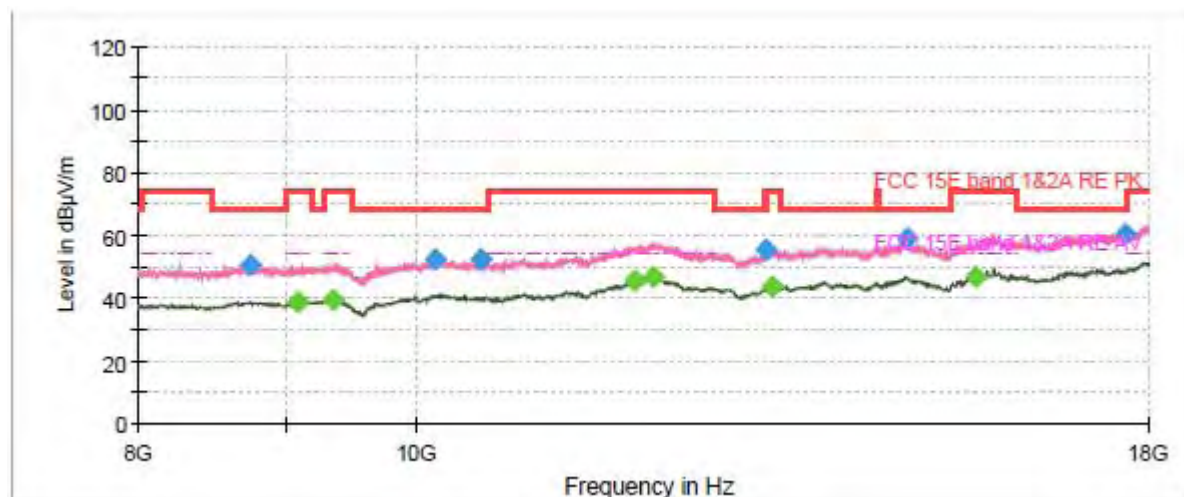
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1266.000000	49.95	---	68.20	18.25	100.0	V	110.0	-9.8
1302.750000	---	39.56	54.00	14.44	200.0	V	74.0	-9.5
1470.750000	---	38.16	54.00	15.84	200.0	V	63.0	-8.5
1742.000000	50.43	---	68.20	17.77	100.0	V	340.0	-7.0
2590.750000	51.21	---	68.20	16.99	100.0	V	202.0	-4.2
2827.000000	---	40.98	54.00	13.02	100.0	H	3.0	-3.2
3404.500000	54.87	---	68.20	13.33	100.0	H	60.0	-1.5
3989.000000	---	43.51	54.00	10.49	200.0	H	182.0	0.4
5455.500000	---	45.45	54.00	8.55	100.0	V	345.0	4.7
5466.875000	57.69	---	68.20	10.51	100.0	V	252.0	4.7
7202.000000	60.42	---	68.20	7.78	100.0	V	0.0	8.3
7356.875000	---	48.22	54.00	5.78	100.0	H	147.0	8.2

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

802.11a CH40



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



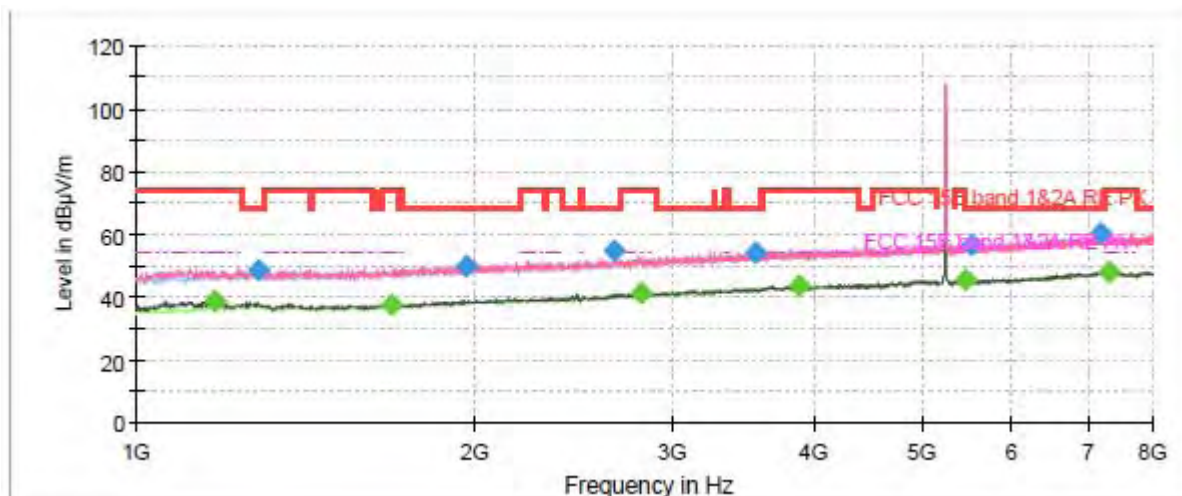
Radiates Emission from 8GHz to 18GHz



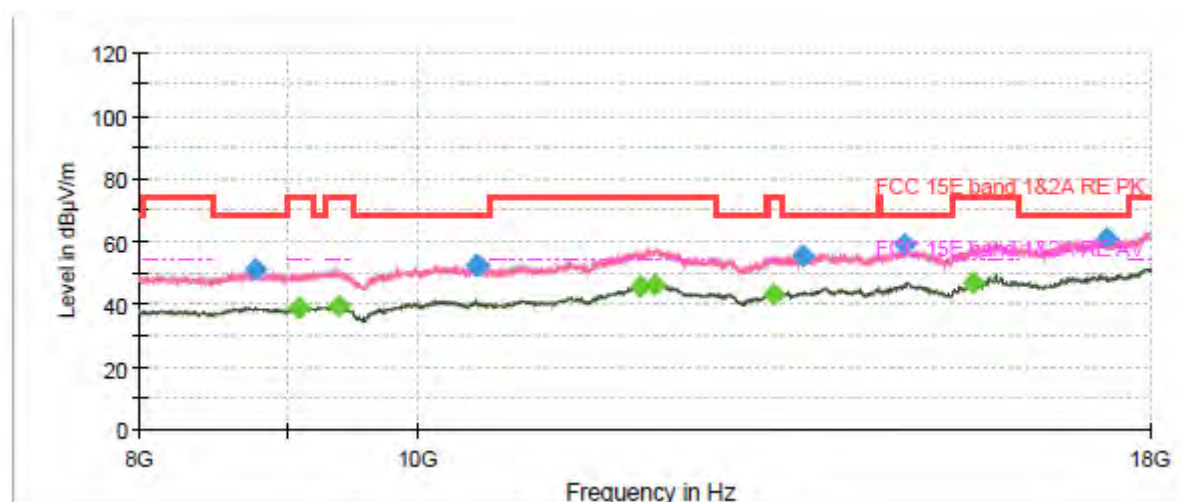
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1162.750000	---	39.69	54.00	14.31	100.0	V	205.0	-10.4
1281.750000	49.82	---	68.20	18.38	200.0	V	86.0	-9.7
1468.125000	---	38.10	54.00	15.90	200.0	V	64.0	-8.5
1955.500000	49.89	---	68.20	18.31	100.0	V	168.0	-5.8
2656.375000	52.95	---	68.20	15.25	100.0	V	178.0	-3.9
2792.875000	---	40.82	54.00	13.18	100.0	V	215.0	-3.4
3208.500000	54.71	---	68.20	13.49	100.0	H	58.0	-2.1
3693.250000	---	43.55	54.00	10.45	200.0	H	346.0	-0.2
5014.500000	---	45.61	54.00	8.39	100.0	H	104.0	4.1
5595.500000	57.72	---	68.20	10.48	200.0	V	81.0	4.7
7480.250000	---	47.91	54.00	6.09	200.0	V	289.0	7.9
7894.125000	60.88	---	68.20	7.32	100.0	H	289.0	8.0

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

802.11a CH48



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



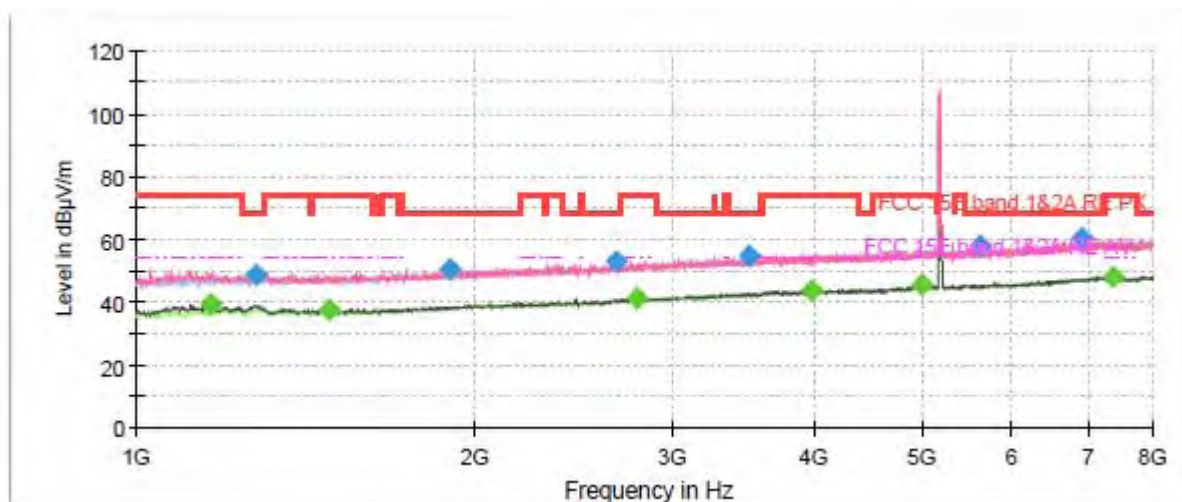
Radiates Emission from 8GHz to 18GHz



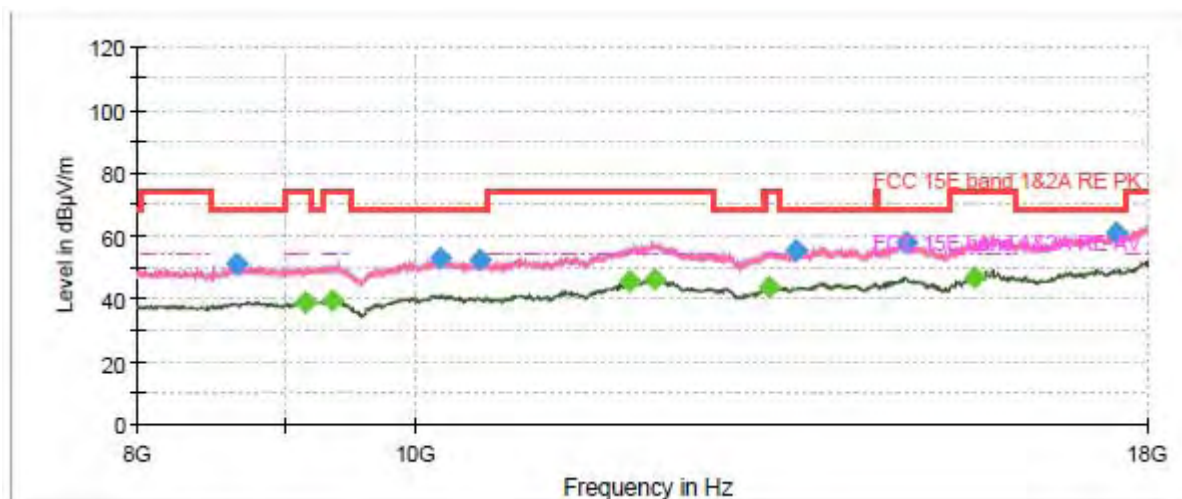
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1173.250000	---	38.88	54.00	15.12	200.0	V	198.0	-10.3
1284.375000	48.57	---	68.20	19.63	200.0	H	151.0	-9.7
1685.125000	---	37.71	54.00	16.29	100.0	H	162.0	-7.2
1964.250000	50.07	---	68.20	18.13	100.0	H	169.0	-5.8
2663.375000	54.46	---	68.20	13.74	200.0	V	48.0	-3.8
2812.125000	---	41.49	54.00	12.51	200.0	V	203.0	-3.3
3545.375000	54.04	---	68.20	14.16	100.0	V	345.0	-1.2
3876.125000	---	43.46	54.00	10.54	200.0	V	173.0	0.0
5450.250000	---	45.42	54.00	8.58	200.0	H	273.0	4.6
5533.375000	56.74	---	68.20	11.46	100.0	H	0.0	4.6
7203.750000	60.04	---	68.20	8.16	100.0	V	236.0	8.3
7314.000000	---	48.04	54.00	5.96	200.0	H	97.0	8.3

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

802.11n (HT20) CH36



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



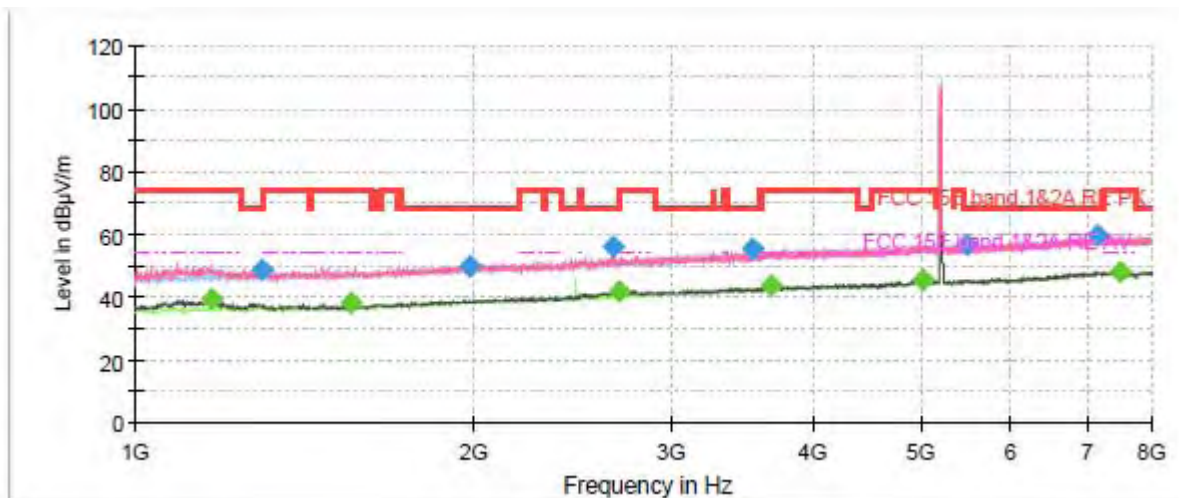
Radiates Emission from 8GHz to 18GHz



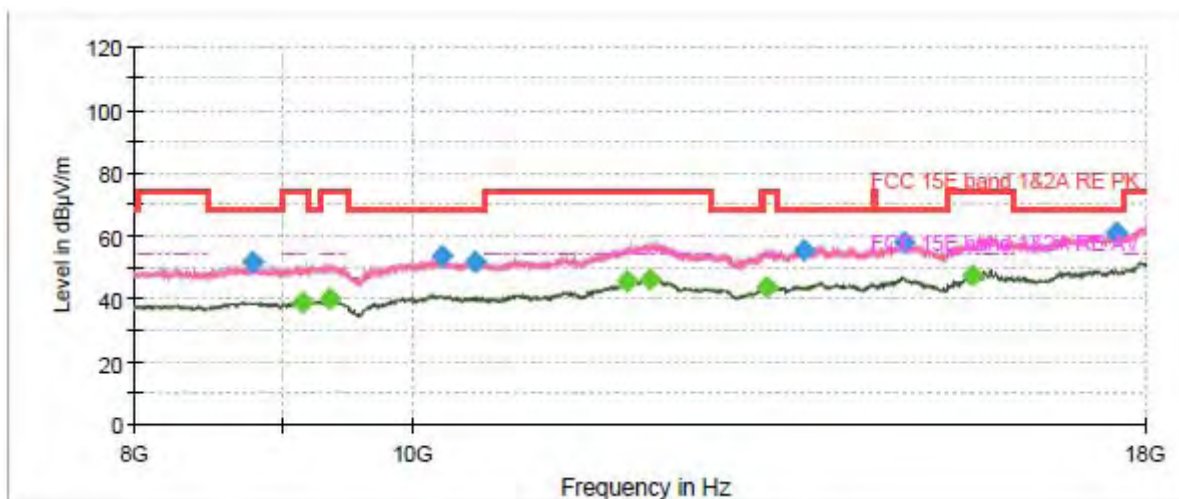
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1166.250000	---	39.58	54.00	14.42	100.0	V	209.0	-10.4
1277.375000	48.92	---	68.20	19.28	200.0	V	101.0	-9.7
1488.250000	---	37.75	54.00	16.25	100.0	V	111.0	-8.4
1900.375000	50.27	---	68.20	17.93	200.0	V	16.0	-6.1
2675.625000	52.79	---	68.20	15.41	200.0	H	52.0	-3.8
2791.125000	---	41.11	54.00	12.89	100.0	V	9.0	-3.4
3504.250000	54.69	---	68.20	13.51	100.0	H	339.0	-1.3
3982.000000	---	43.76	54.00	10.24	200.0	V	311.0	0.4
4990.000000	---	45.79	54.00	8.21	100.0	H	218.0	4.1
5622.625000	57.69	---	68.20	10.51	100.0	H	355.0	4.6
6909.750000	60.39	---	68.20	7.81	100.0	H	159.0	7.4
7391.000000	---	48.02	54.00	5.98	200.0	V	266.0	8.0

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

802.11n (HT20) CH40



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



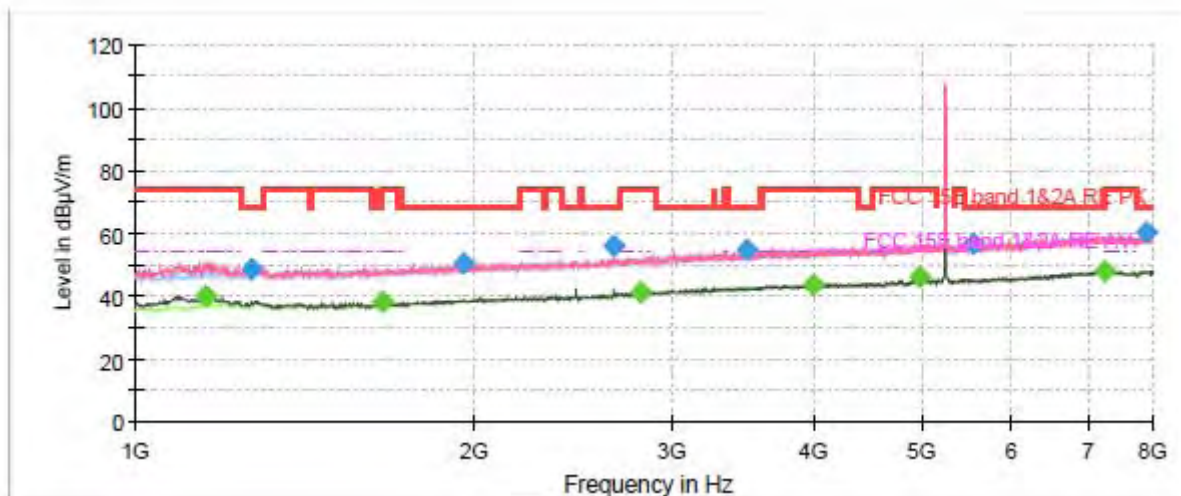
Radiates Emission from 8GHz to 18GHz



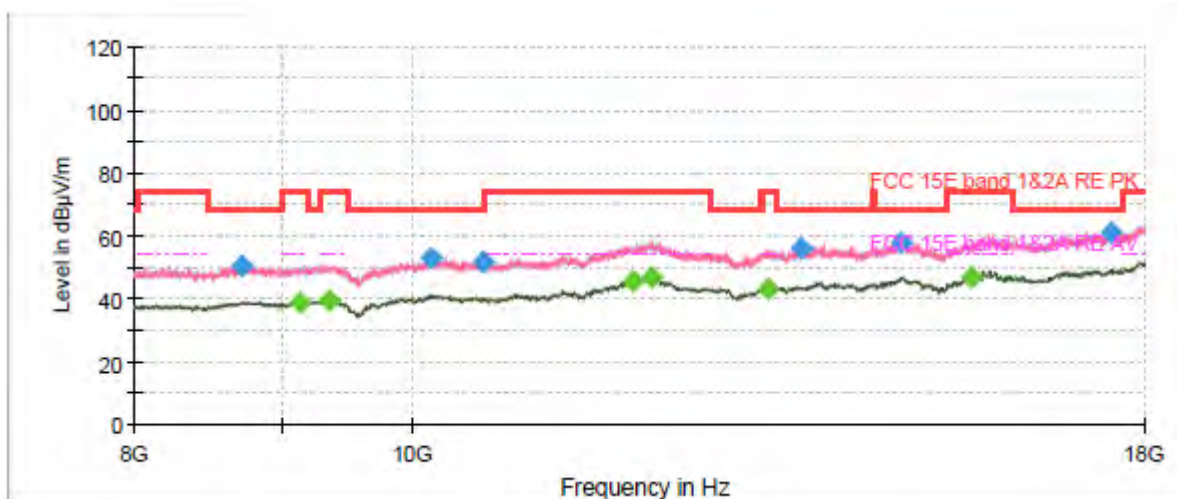
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1171.500000	---	39.55	54.00	14.45	200.0	V	196.0	-10.3
1295.750000	48.53	---	68.20	19.67	200.0	H	206.0	-9.6
1553.000000	---	37.98	54.00	16.02	100.0	V	40.0	-8.0
1984.375000	50.11	---	68.20	18.09	100.0	H	294.0	-5.7
2656.375000	55.94	---	68.20	12.26	200.0	V	90.0	-3.9
2693.125000	---	41.94	54.00	12.06	100.0	V	226.0	-3.7
3535.750000	55.24	---	68.20	12.96	100.0	V	122.0	-1.2
3675.750000	---	43.75	54.00	10.25	100.0	V	14.0	-0.2
5004.000000	---	45.48	54.00	8.52	200.0	H	111.0	4.1
5476.500000	56.64	---	68.20	11.56	100.0	H	164.0	4.7
7163.500000	59.96	---	68.20	8.25	100.0	V	169.0	8.2
7490.750000	---	48.16	54.00	5.84	100.0	V	236.0	7.9

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

802.11n (HT20) CH48



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



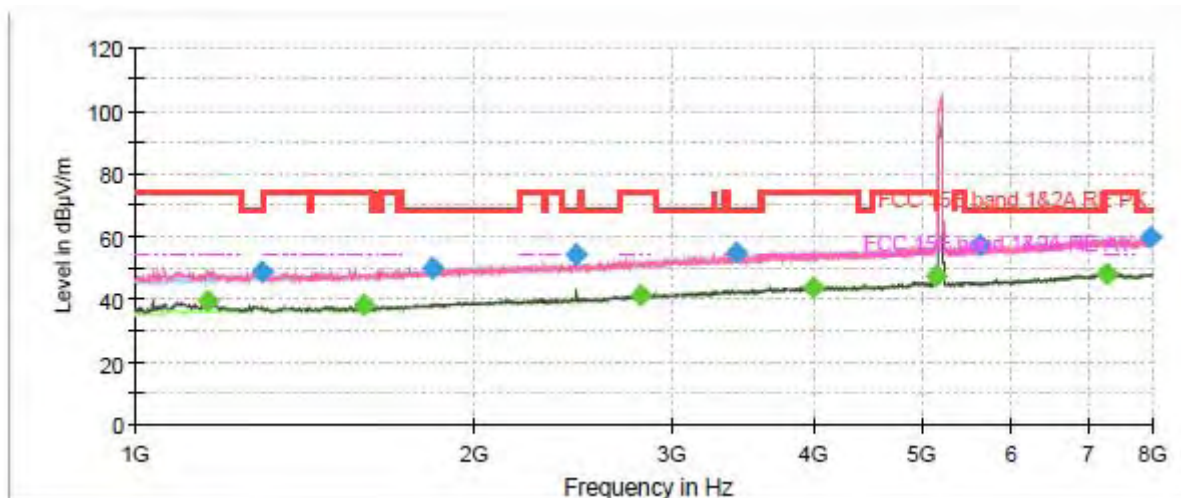
Radiates Emission from 8GHz to 18GHz



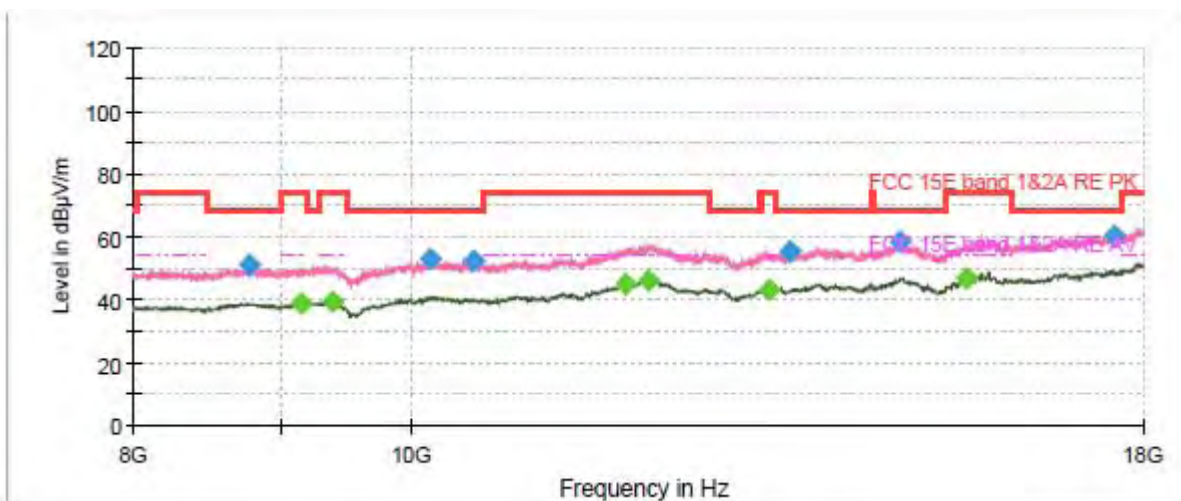
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1157.500000	---	40.21	54.00	13.79	100.0	V	206.0	-10.4
1267.750000	48.87	---	68.20	19.33	200.0	V	192.0	-9.8
1661.500000	---	38.26	54.00	15.74	200.0	V	192.0	-7.4
1956.375000	50.70	---	68.20	17.50	100.0	V	86.0	-5.8
2661.625000	55.91	---	68.20	12.29	200.0	V	90.0	-3.8
2806.875000	---	40.97	54.00	13.03	100.0	H	144.0	-3.3
3497.250000	54.66	---	68.20	13.54	200.0	V	202.0	-1.3
3998.625000	---	43.54	54.00	10.46	100.0	V	23.0	0.5
4967.250000	---	45.86	54.00	8.14	100.0	H	144.0	4.1
5553.500000	56.91	---	68.20	11.29	200.0	H	158.0	4.7
7252.750000	---	48.11	54.00	5.89	100.0	H	324.0	8.4
7911.625000	60.04	---	68.20	8.16	200.0	H	320.0	8.0

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

802.11n (HT40) CH38



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



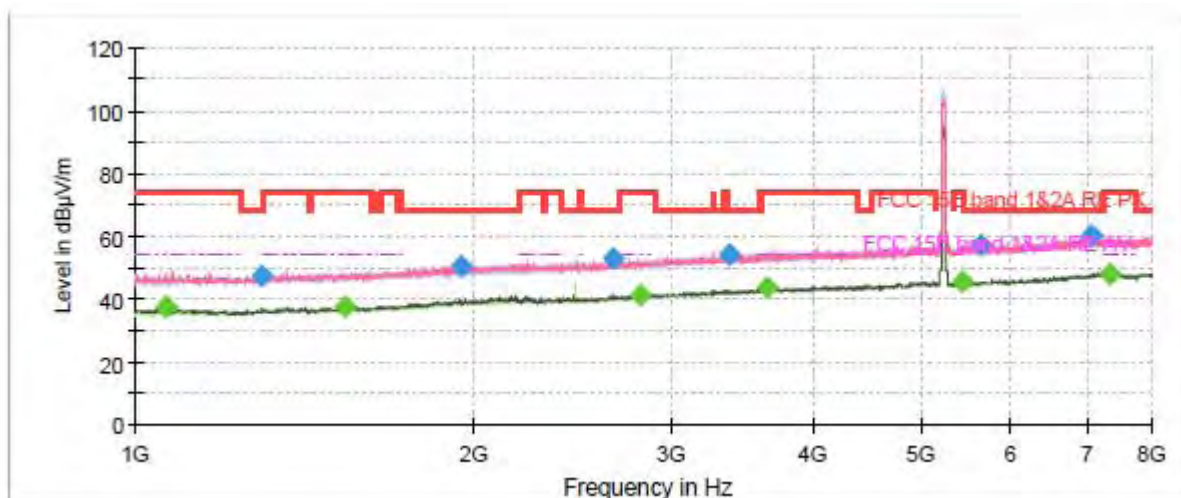
Radiates Emission from 8GHz to 18GHz



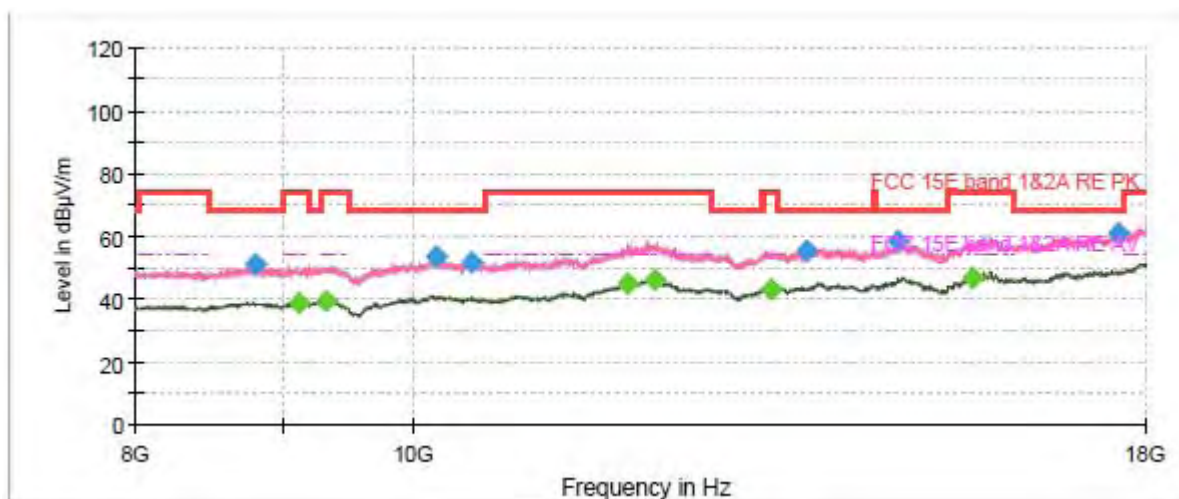
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1161.875000	---	39.59	54.00	14.41	100.0	V	207.0	-10.4
1294.000000	48.68	---	68.20	19.52	100.0	H	156.0	-9.6
1596.750000	---	38.23	54.00	15.77	100.0	V	164.0	-7.8
1835.625000	50.03	---	68.20	18.17	100.0	V	64.0	-6.4
2468.250000	54.36	---	68.20	13.84	200.0	H	81.0	-4.5
2809.500000	---	41.02	54.00	12.98	200.0	V	321.0	-3.3
3415.000000	54.94	---	68.20	13.26	100.0	V	245.0	-1.5
3995.125000	---	43.72	54.00	10.28	100.0	H	247.0	0.5
5149.250000	---	47.45	54.00	6.55	100.0	H	355.0	3.8
5609.500000	57.54	---	68.20	10.66	200.0	H	200.0	4.6
7277.250000	---	48.09	54.00	5.91	100.0	H	181.0	8.3
7955.375000	59.91	---	68.20	8.29	100.0	H	115.0	7.8

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

802.11n (HT40) CH46



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



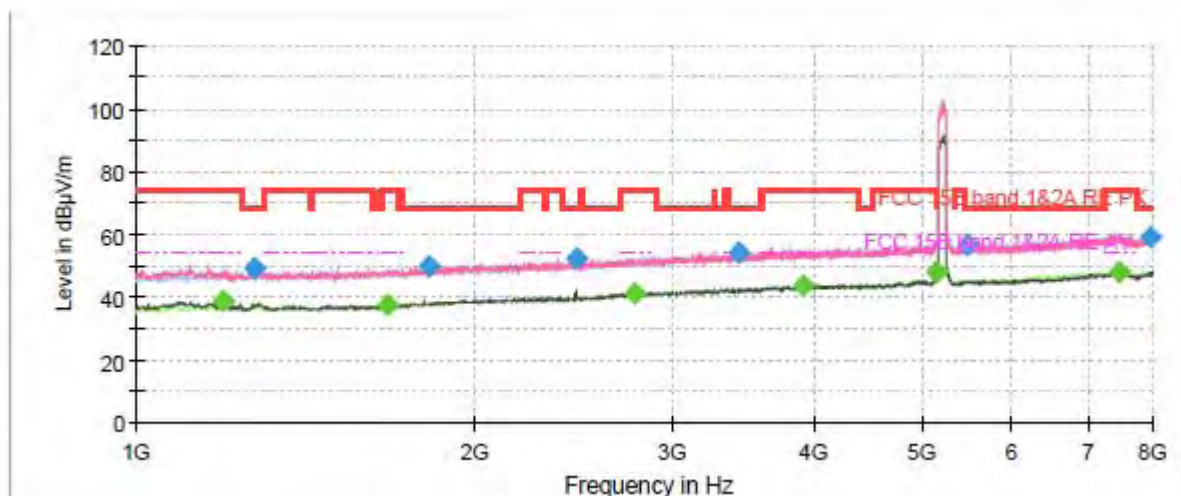
Radiates Emission from 8GHz to 18GHz



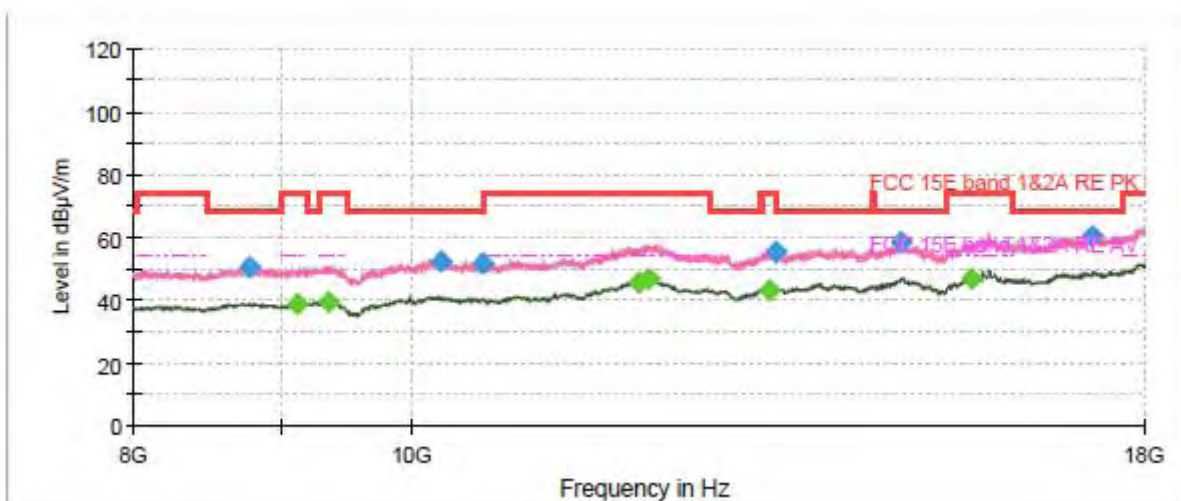
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1063.875000	---	37.43	54.00	16.57	100.0	V	193.0	-10.7
1296.625000	47.31	---	68.20	20.89	200.0	V	7.0	-9.6
1537.250000	---	37.76	54.00	16.24	100.0	V	157.0	-8.2
1952.000000	50.55	---	68.20	17.65	100.0	V	255.0	-5.8
2659.875000	52.99	---	68.20	15.21	200.0	H	324.0	-3.8
2813.000000	---	41.06	54.00	12.94	200.0	V	12.0	-3.3
3378.250000	54.27	---	68.20	13.93	200.0	H	212.0	-1.6
3649.500000	---	43.90	54.00	10.10	100.0	V	307.0	-0.3
5436.250000	---	45.72	54.00	8.28	200.0	H	351.0	4.6
5654.125000	56.97	---	68.20	11.23	100.0	V	358.0	4.7
7085.625000	60.12	---	68.20	8.08	200.0	V	39.0	7.9
7360.375000	---	48.13	54.00	5.87	200.0	H	238.0	8.2

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

802.11ac (VHT80) CH42



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



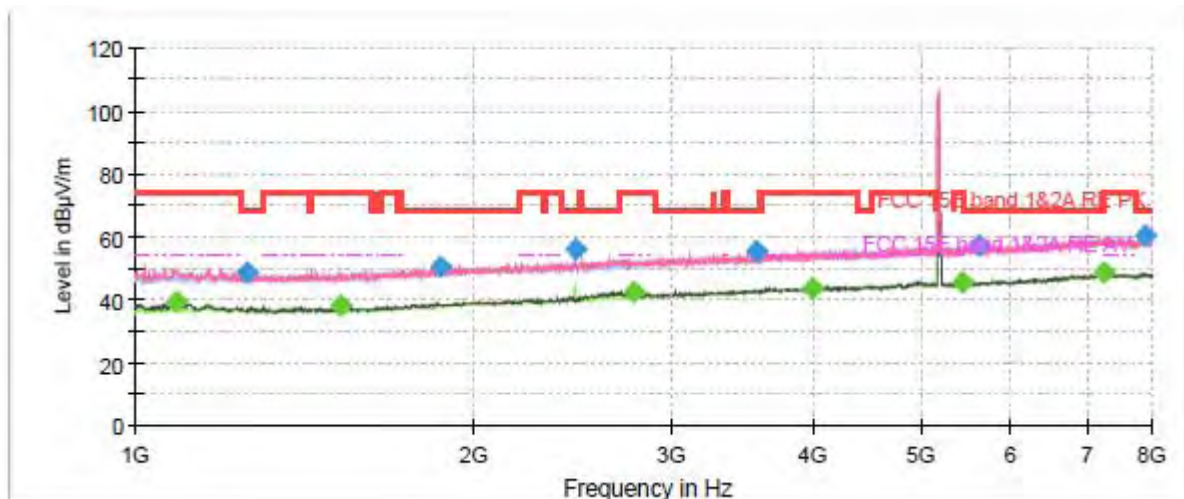
Radiates Emission from 8GHz to 18GHz



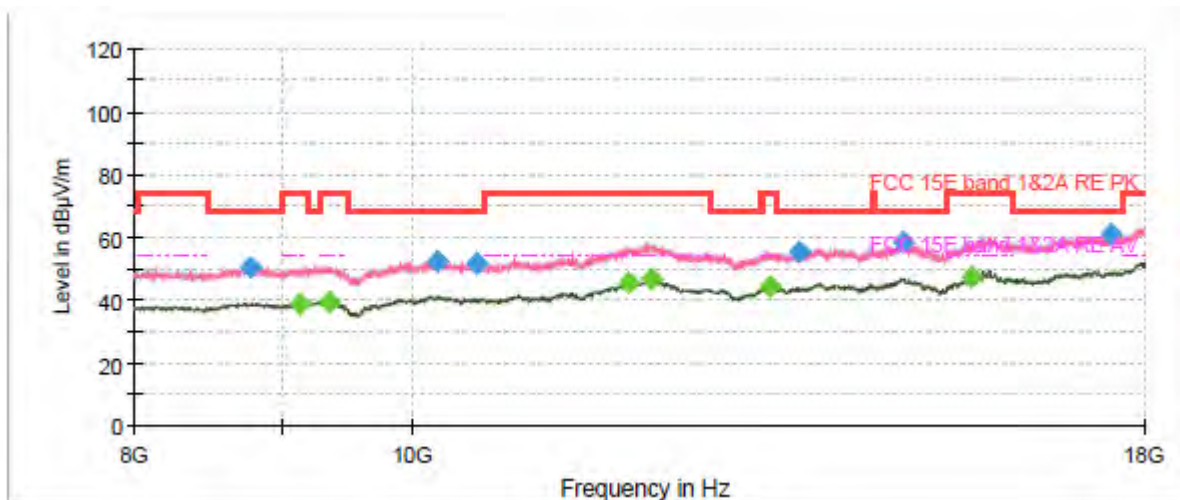
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1101.500000	---	39.70	54.00	14.30	100.0	V	200.0	-10.6
1289.625000	48.44	---	68.20	19.76	100.0	V	112.0	-9.6
1664.125000	---	38.69	54.00	15.31	200.0	V	167.0	-7.4
1938.875000	50.10	---	68.20	18.10	100.0	V	37.0	-5.9
2662.500000	54.64	---	68.20	13.56	100.0	V	165.0	-3.8
2744.750000	---	41.99	54.00	12.01	200.0	V	172.0	-3.5
3400.125000	54.25	---	68.20	13.95	100.0	H	173.0	-1.5
3780.750000	---	43.64	54.00	10.36	200.0	V	142.0	-0.1
5146.625000	---	48.22	54.00	5.78	100.0	H	18.0	3.8
5467.750000	57.32	---	68.20	10.88	100.0	V	222.0	4.7
6942.125000	60.01	---	68.20	8.19	200.0	V	356.0	7.4
7501.250000	---	48.08	54.00	5.92	100.0	V	180.0	7.9

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

802.11ax (HE20) CH36



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



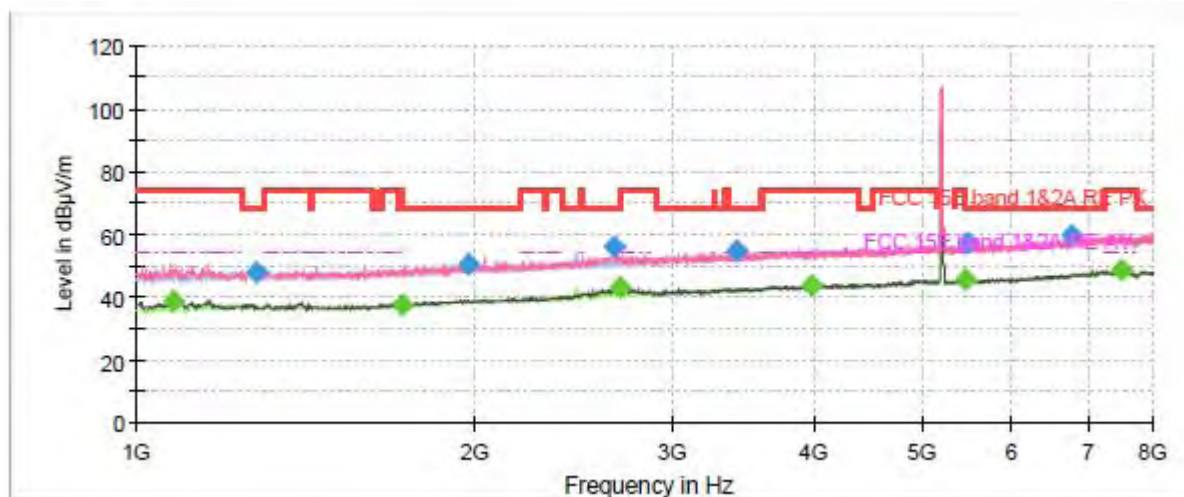
Radiates Emission from 8GHz to 18GHz



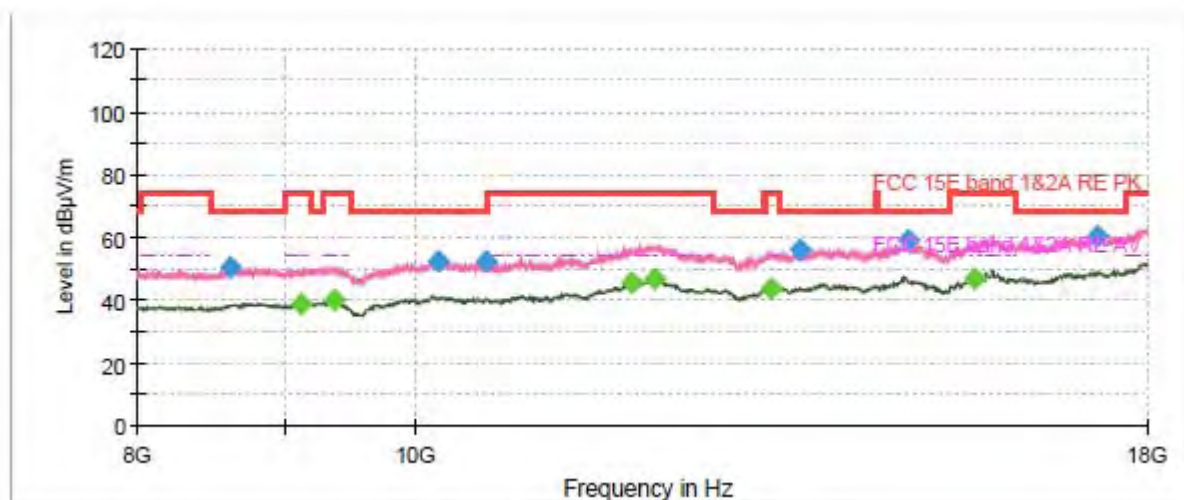
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1090.125000	---	39.56	54.00	14.44	100.0	V	199.0	-10.7
1259.875000	48.87	---	68.20	19.33	100.0	H	131.0	-9.8
1521.500000	---	38.04	54.00	15.96	100.0	V	62.0	-8.2
1871.500000	50.67	---	68.20	17.53	100.0	V	88.0	-6.2
2459.500000	55.74	---	68.20	12.46	200.0	H	42.0	-4.5
2778.000000	---	42.46	54.00	11.54	100.0	V	204.0	-3.4
3573.375000	55.12	---	68.20	13.08	100.0	V	77.0	-1.1
3999.500000	---	43.96	54.00	10.04	100.0	H	161.0	0.5
5422.250000	---	45.61	54.00	8.39	100.0	H	348.0	4.4
5631.375000	57.12	---	68.20	11.08	100.0	V	225.0	4.6
7266.750000	---	48.37	54.00	5.63	100.0	V	0.0	8.3
7883.625000	60.12	---	68.20	8.08	100.0	H	257.0	8.0

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

802.11ax (HE20) CH40



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



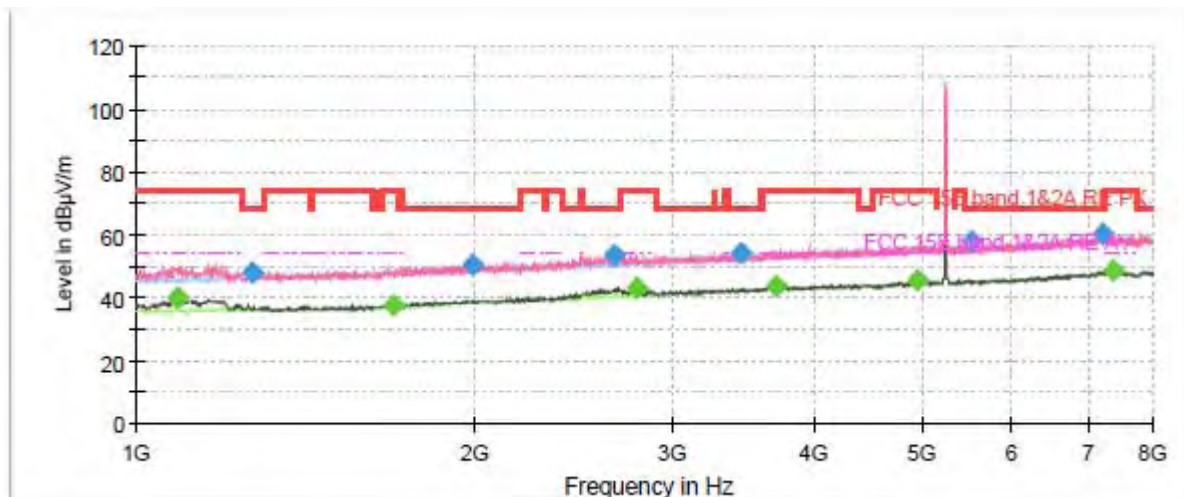
Radiates Emission from 8GHz to 18GHz



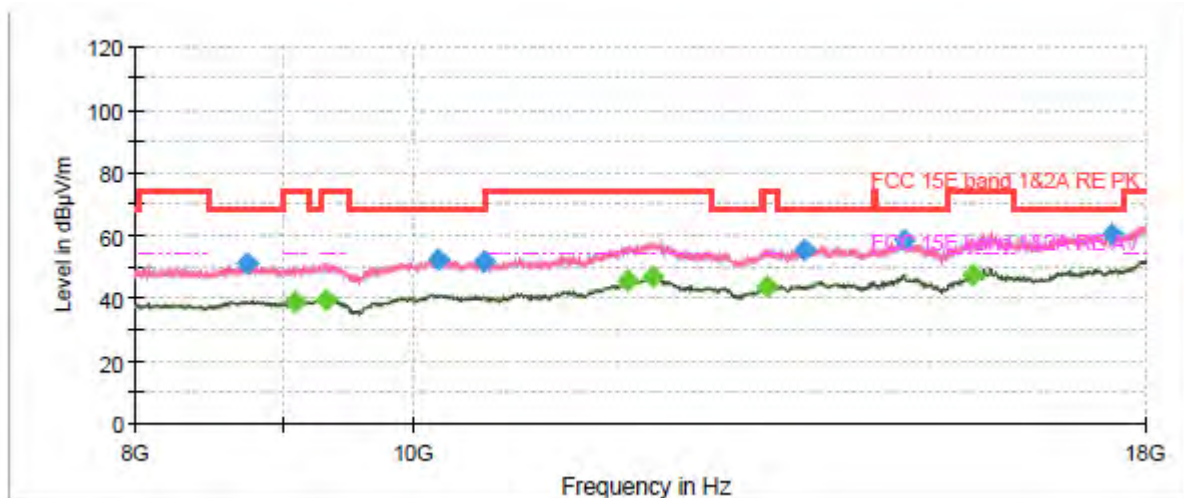
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1079.625000	---	38.83	54.00	15.17	100.0	V	210.0	-10.7
1280.875000	48.26	---	68.20	19.94	200.0	V	227.0	-9.7
1721.000000	---	37.62	54.00	16.38	200.0	V	165.0	-7.0
1973.000000	50.60	---	68.20	17.60	200.0	V	159.0	-5.7
2659.000000	56.08	---	68.20	12.12	200.0	V	104.0	-3.9
2691.375000	---	43.00	54.00	11.00	200.0	V	201.0	-3.7
3424.625000	54.66	---	68.20	13.54	100.0	V	155.0	-1.5
3981.125000	---	43.81	54.00	10.19	200.0	H	61.0	0.3
5445.000000	---	45.50	54.00	8.50	200.0	V	340.0	4.6
5474.750000	57.12	---	68.20	11.08	100.0	V	58.0	4.7
6776.750000	59.84	---	68.20	8.36	100.0	H	292.0	7.3
7492.500000	---	48.42	54.00	5.58	200.0	H	154.0	7.9

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

802.11ax (HE20) CH48



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



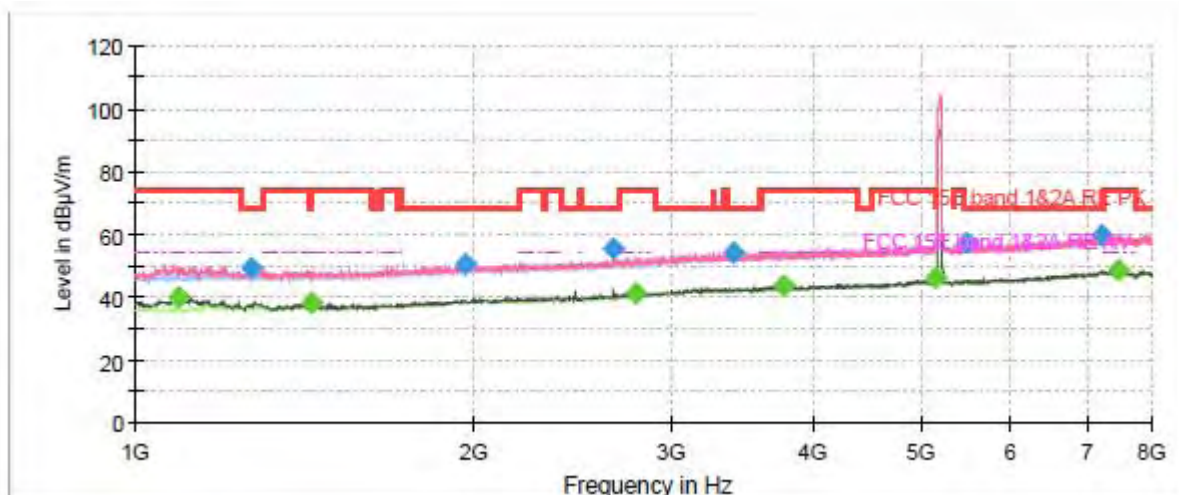
Radiates Emission from 8GHz to 18GHz



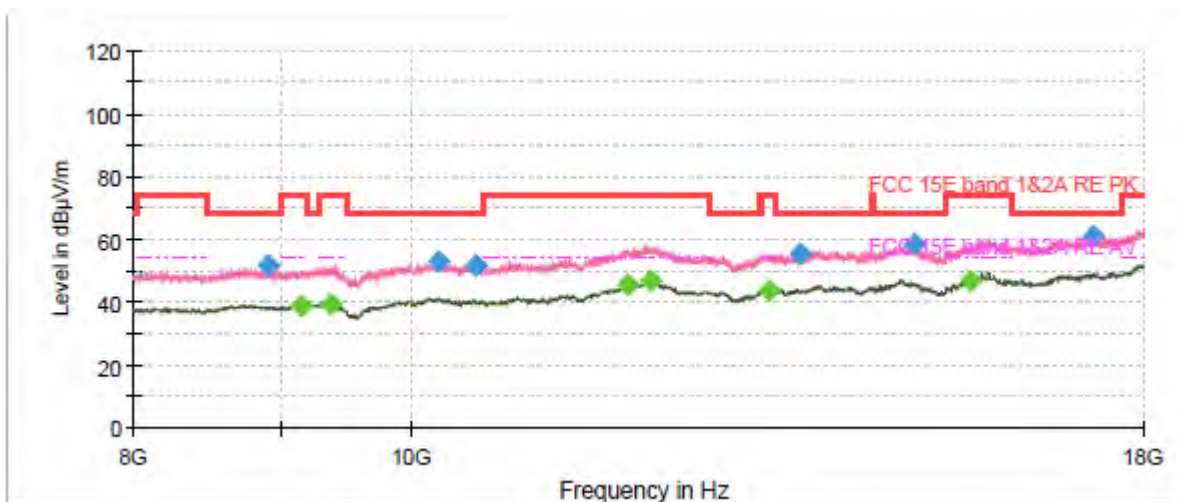
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1090.125000	---	40.08	54.00	13.92	100.0	V	201.0	-10.7
1269.500000	47.95	---	68.20	20.25	100.0	V	224.0	-9.8
1692.125000	---	37.85	54.00	16.15	100.0	V	33.0	-7.2
1990.500000	50.56	---	68.20	17.64	200.0	V	270.0	-5.7
2662.500000	53.33	---	68.20	14.87	200.0	V	191.0	-3.8
2784.125000	---	42.88	54.00	11.12	200.0	V	197.0	-3.4
3451.750000	54.45	---	68.20	13.75	200.0	V	285.0	-1.4
3697.625000	---	43.64	54.00	10.36	200.0	V	234.0	-0.2
4945.375000	---	45.65	54.00	8.35	100.0	H	183.0	4.0
5515.875000	57.56	---	68.20	10.64	100.0	H	208.0	4.6
7225.625000	60.11	---	68.20	8.09	200.0	V	265.0	8.3
7365.625000	---	48.38	54.00	5.62	200.0	H	301.0	8.1

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

802.11ax (HE40) CH38



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



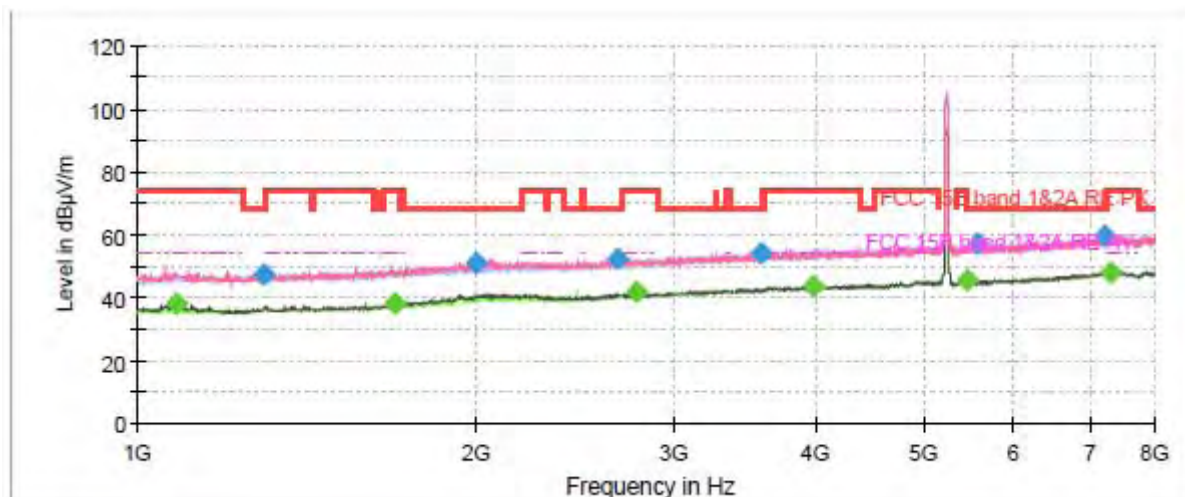
Radiates Emission from 8GHz to 18GHz



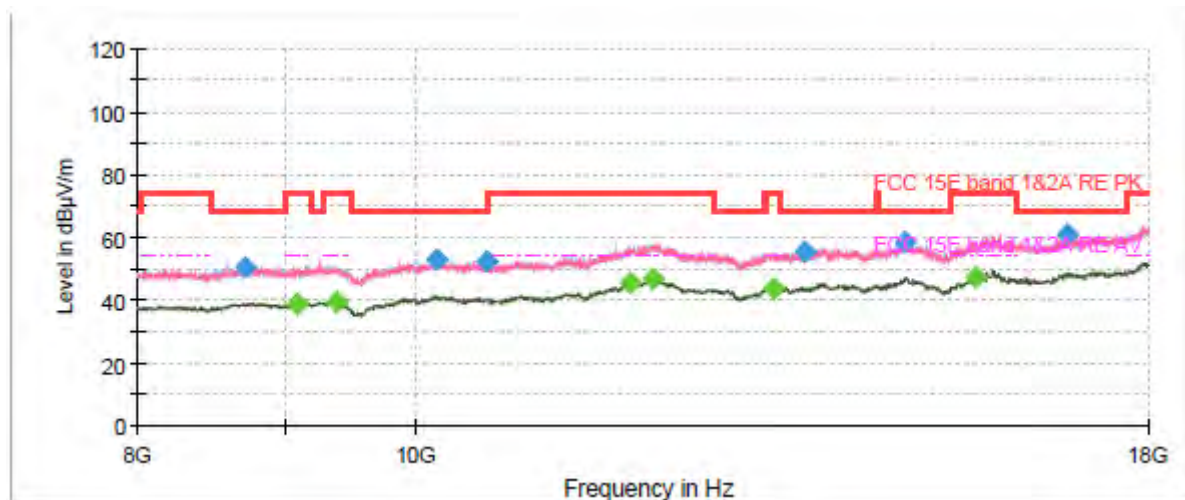
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1095.375000	---	39.82	54.00	14.18	100.0	V	194.0	-10.7
1271.250000	49.10	---	68.20	19.10	100.0	V	103.0	-9.8
1437.500000	---	38.04	54.00	15.96	200.0	V	11.0	-8.7
1968.625000	50.60	---	68.20	17.60	100.0	H	185.0	-5.7
2664.250000	55.33	---	68.20	12.87	200.0	V	162.0	-3.8
2782.375000	---	41.46	54.00	12.54	200.0	V	130.0	-3.4
3399.250000	54.43	---	68.20	13.77	100.0	H	196.0	-1.5
3776.375000	---	43.48	54.00	10.52	200.0	V	125.0	-0.1
5148.375000	---	45.90	54.00	8.10	100.0	H	0.0	3.8
5476.500000	57.20	---	68.20	11.00	100.0	V	68.0	4.7
7228.250000	59.62	---	68.20	8.58	200.0	H	92.0	8.3
7485.500000	---	48.54	54.00	5.46	200.0	H	62.0	7.9

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

802.11ax (HE40) CH46



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



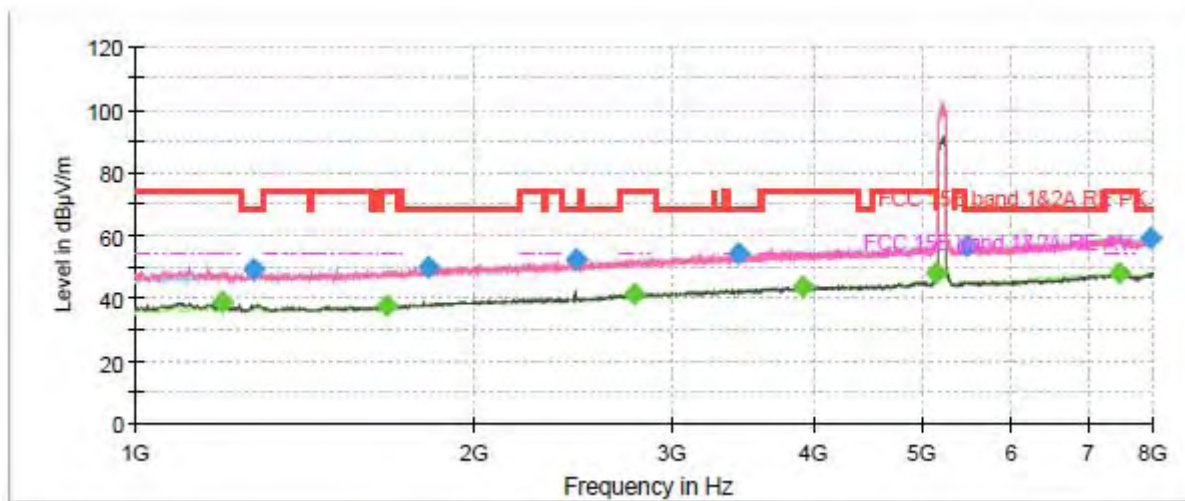
Radiates Emission from 8GHz to 18GHz



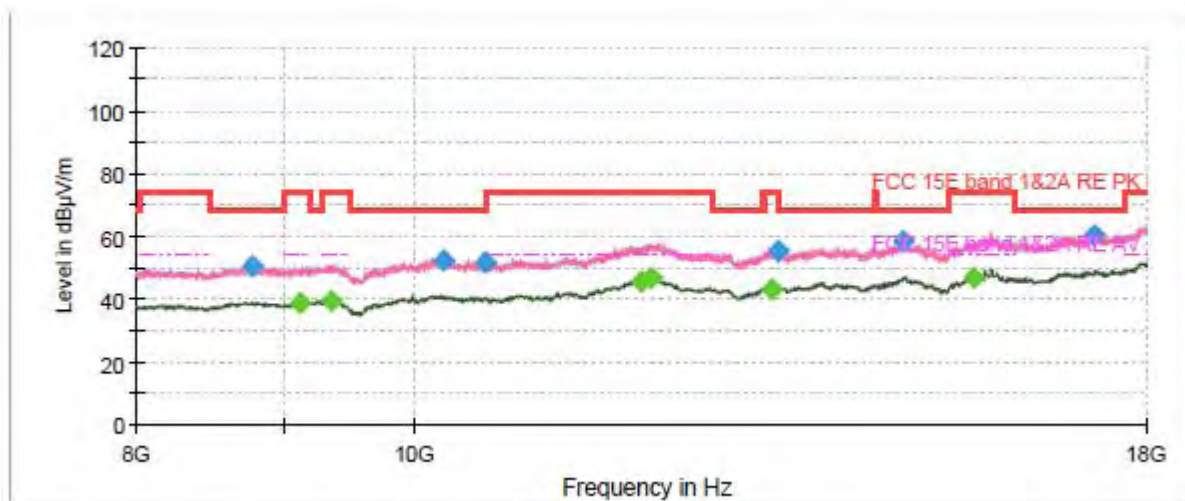
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1084.000000	---	38.17	54.00	15.83	100.0	V	195.0	-10.7
1295.750000	47.50	---	68.20	20.70	100.0	H	320.0	-9.6
1695.625000	---	38.07	54.00	15.93	100.0	V	27.0	-7.2
1999.250000	51.30	---	68.20	16.90	200.0	H	0.0	-5.6
2665.125000	52.56	---	68.20	15.64	100.0	V	63.0	-3.8
2769.250000	---	41.56	54.00	12.44	200.0	V	198.0	-3.5
3579.500000	54.08	---	68.20	14.12	200.0	V	342.0	-1.0
3984.625000	---	43.74	54.00	10.26	200.0	V	245.0	0.4
5459.875000	---	45.39	54.00	8.61	200.0	V	245.0	4.7
5577.125000	57.10	---	68.20	11.10	200.0	V	261.0	4.7
7209.000000	59.56	---	68.20	8.64	100.0	H	83.0	8.3
7328.000000	---	48.22	54.00	5.78	100.0	H	240.0	8.3

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

802.11ax (HE80) CH42



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



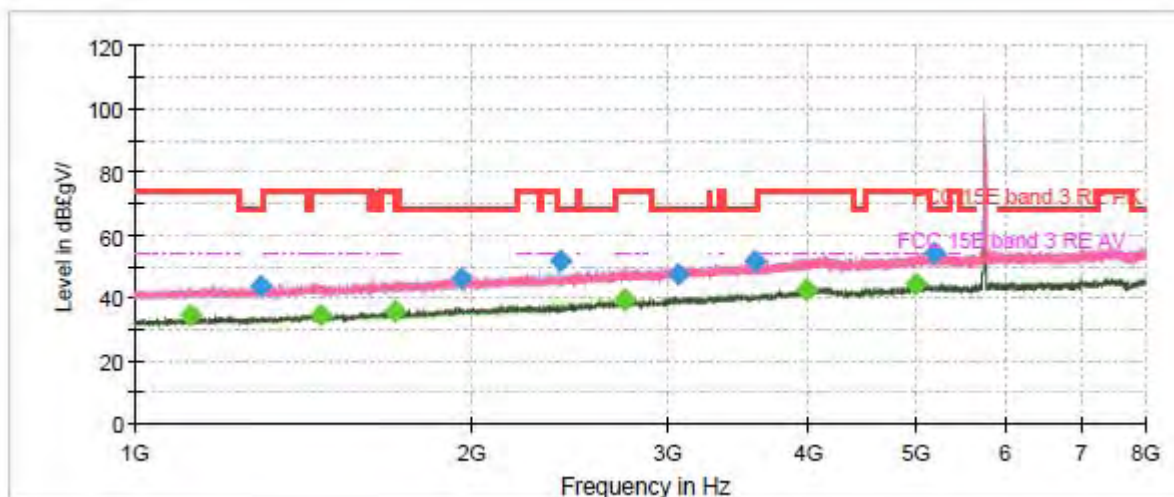
Radiates Emission from 8GHz to 18GHz



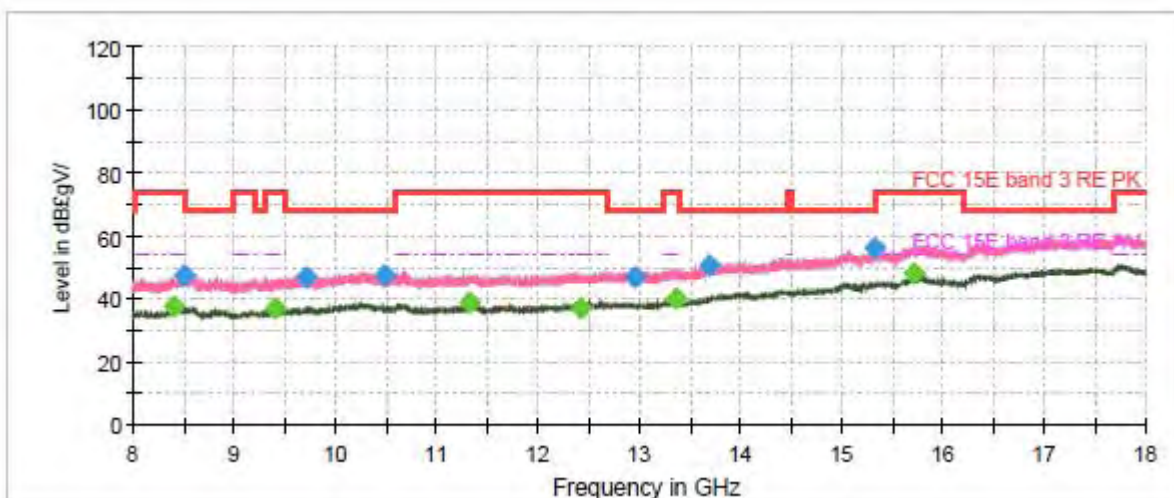
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1195.125000	---	38.61	54.00	15.39	100.0	V	103.0	-10.2
1276.500000	48.99	---	68.20	19.21	100.0	V	97.0	-9.7
1669.375000	---	37.67	54.00	16.33	100.0	H	212.0	-7.3
1821.625000	50.03	---	68.20	18.17	100.0	H	144.0	-6.5
2463.875000	52.52	---	68.20	15.68	200.0	V	215.0	-4.5
2771.875000	---	41.45	54.00	12.55	100.0	V	206.0	-3.5
3426.375000	53.99	---	68.20	14.21	100.0	H	164.0	-1.5
3913.750000	---	43.66	54.00	10.34	100.0	H	113.0	0.2
5148.375000	---	47.93	54.00	6.07	100.0	H	347.0	3.8
5480.000000	56.78	---	68.20	11.42	100.0	H	357.0	4.6
7487.250000	---	48.02	54.00	5.98	100.0	V	44.0	7.9
7972.000000	59.32	---	68.20	8.88	200.0	H	182.0	7.8

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

802.11a CH149



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



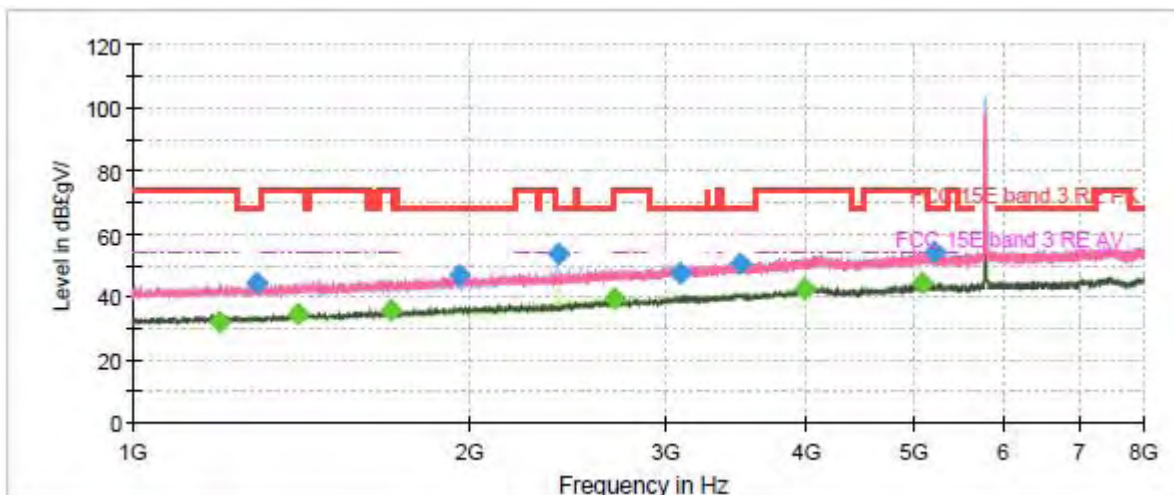
Radiates Emission from 8GHz to 18GHz



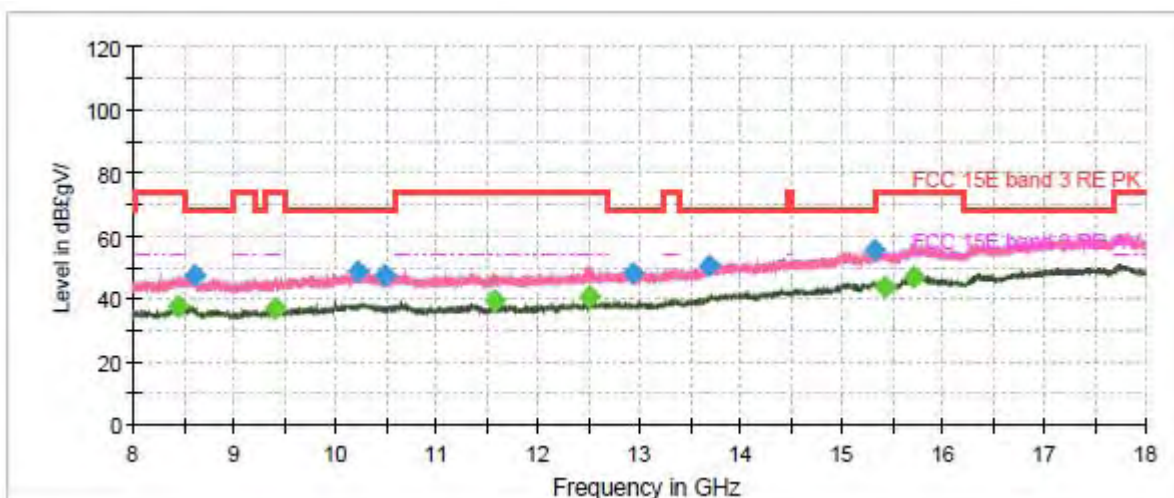
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1119.700000	---	34.44	54.00	19.56	100.0	H	266.0	-7.7
1297.966667	43.53	---	68.20	24.67	100.0	H	213.0	-6.8
1467.600000	---	34.18	54.00	19.82	100.0	H	186.0	-5.7
1705.600000	---	35.66	54.00	18.34	200.0	H	31.0	-4.5
1959.466667	46.43	---	68.20	21.77	200.0	H	235.0	-2.9
2396.266667	51.71	---	68.20	16.49	100.0	H	78.0	-1.2
2741.600000	---	39.68	54.00	14.32	100.0	H	88.0	0.7
3065.233333	47.08	---	68.20	21.12	100.0	H	97.0	2.4
3586.966667	51.48	---	68.20	16.72	200.0	V	330.0	4.0
3983.866667	---	42.55	54.00	11.45	100.0	H	51.0	6.1
4990.233333	---	44.23	54.00	9.77	200.0	H	14.0	8.6
5189.033333	54.10	---	68.20	14.10	100.0	H	195.0	8.7

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

802.11a CH157



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



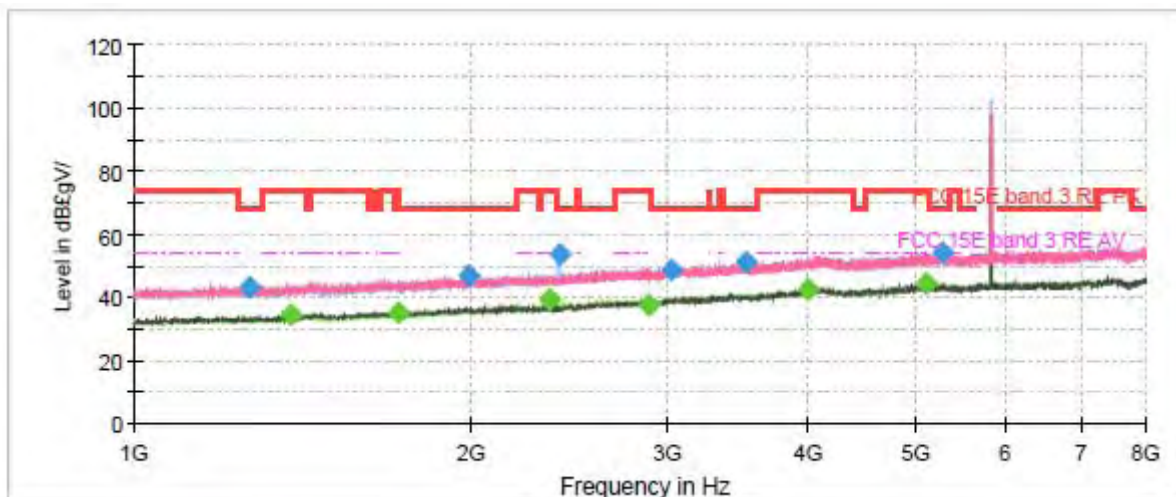
Radiates Emission from 8GHz to 18GHz



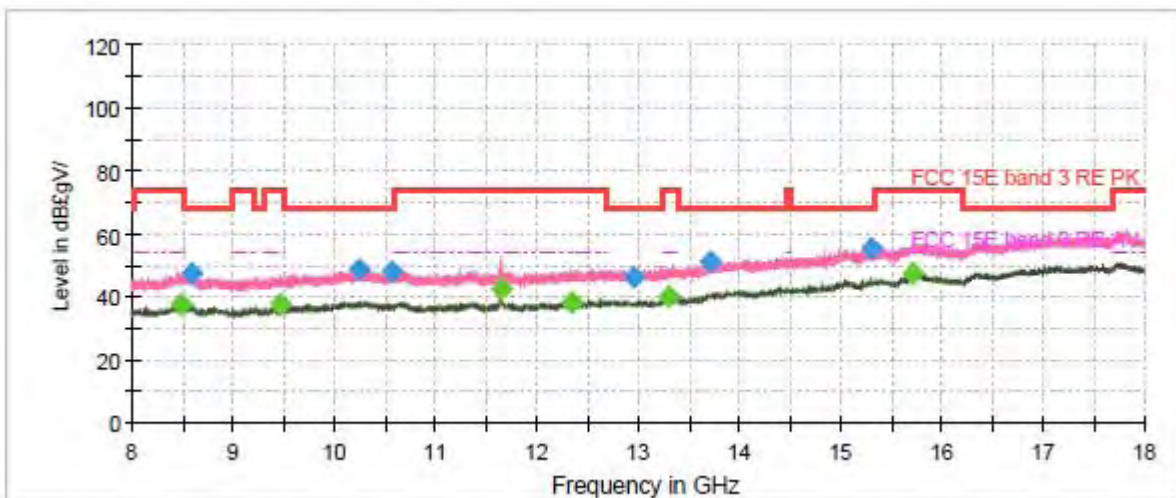
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1195.300000	---	32.17	54.00	21.83	100.0	H	0.0	-7.3
1292.366667	44.01	---	68.20	24.19	100.0	V	305.0	-6.8
1405.533333	---	34.45	54.00	19.55	200.0	H	148.0	-6.1
1699.066667	---	35.75	54.00	18.25	200.0	H	24.0	-4.5
1956.433333	46.96	---	68.20	21.24	100.0	H	21.0	-2.9
2398.833333	53.61	---	68.20	14.59	100.0	H	74.0	-1.2
2694.700000	---	39.29	54.00	14.71	100.0	H	99.0	0.5
3080.866667	47.33	---	68.20	20.87	100.0	H	134.0	2.4
3498.066667	50.75	---	68.20	17.45	200.0	H	310.0	3.7
3991.100000	---	42.51	54.00	11.49	200.0	H	344.0	6.1
5081.933333	---	44.28	54.00	9.72	100.0	V	188.0	8.7
5208.166667	53.99	---	68.20	14.21	100.0	H	13.0	8.8

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

802.11a CH165



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



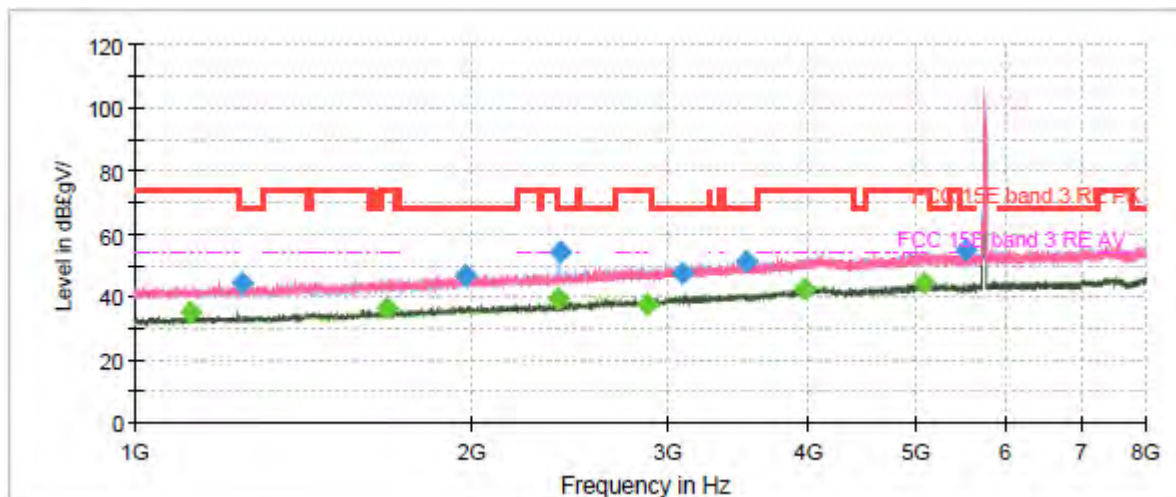
Radiates Emission from 8GHz to 18GHz



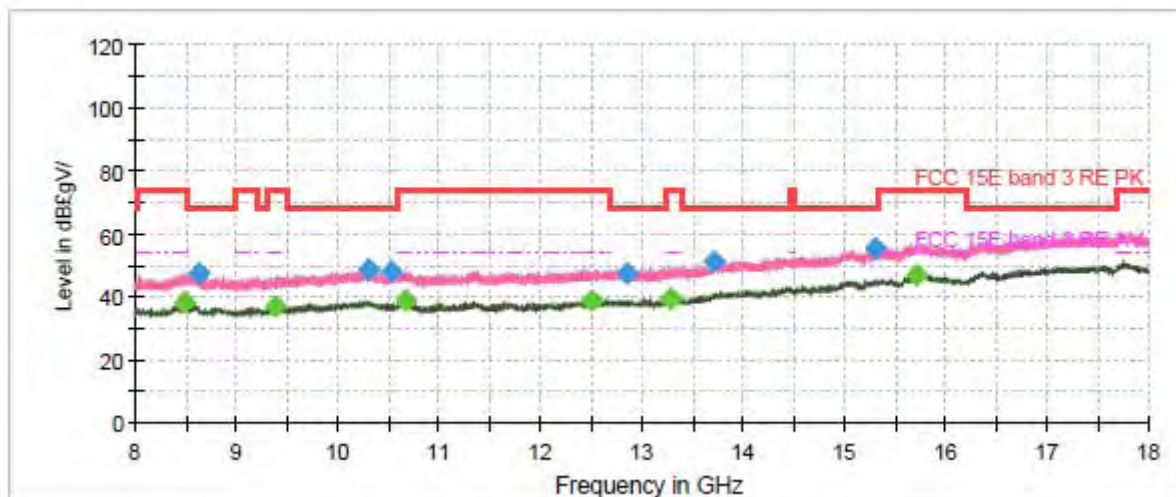
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1266.233333	43.37	---	68.20	24.83	200.0	H	260.0	-6.9
1382.900000	---	34.39	54.00	19.61	200.0	H	295.0	-6.3
1719.833333	---	35.37	54.00	18.63	100.0	V	0.0	-4.4
1993.300000	46.61	---	68.20	21.59	100.0	V	355.0	-2.7
2346.100000	---	39.51	54.00	14.49	100.0	H	105.0	-1.4
2396.966667	53.33	---	68.20	14.87	100.0	H	79.0	-1.2
2887.666667	---	37.54	54.00	16.46	200.0	H	104.0	1.2
3021.366667	48.72	---	68.20	19.48	200.0	H	337.0	2.1
3521.400000	51.29	---	68.20	16.91	100.0	H	186.0	3.8
3996.233333	---	42.66	54.00	11.34	200.0	V	0.0	6.1
5106.666667	---	44.27	54.00	9.73	200.0	H	312.0	8.7
5269.766667	54.17	---	68.20	14.03	200.0	V	0.0	8.8

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

802.11n (HT20) CH149



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



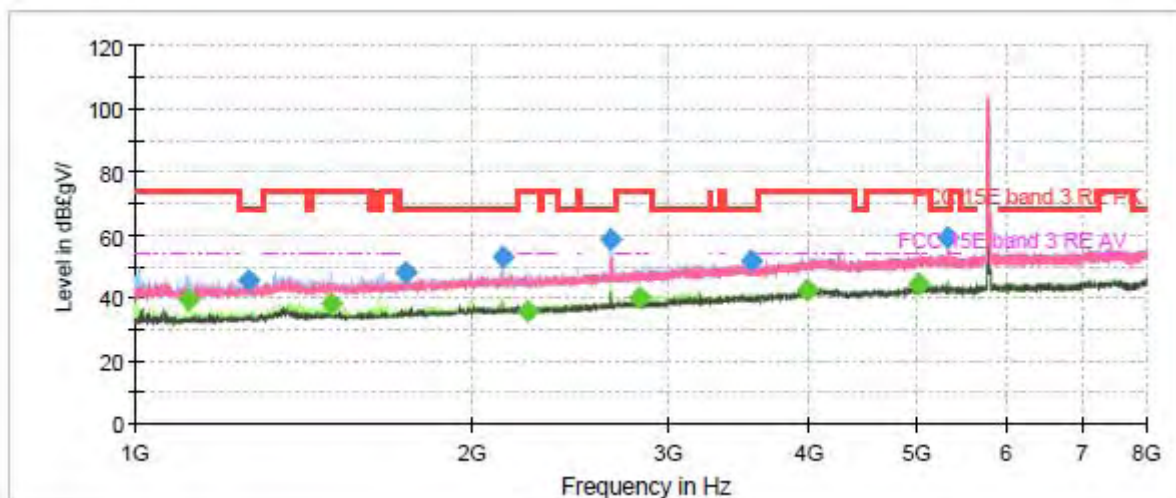
Radiates Emission from 8GHz to 18GHz



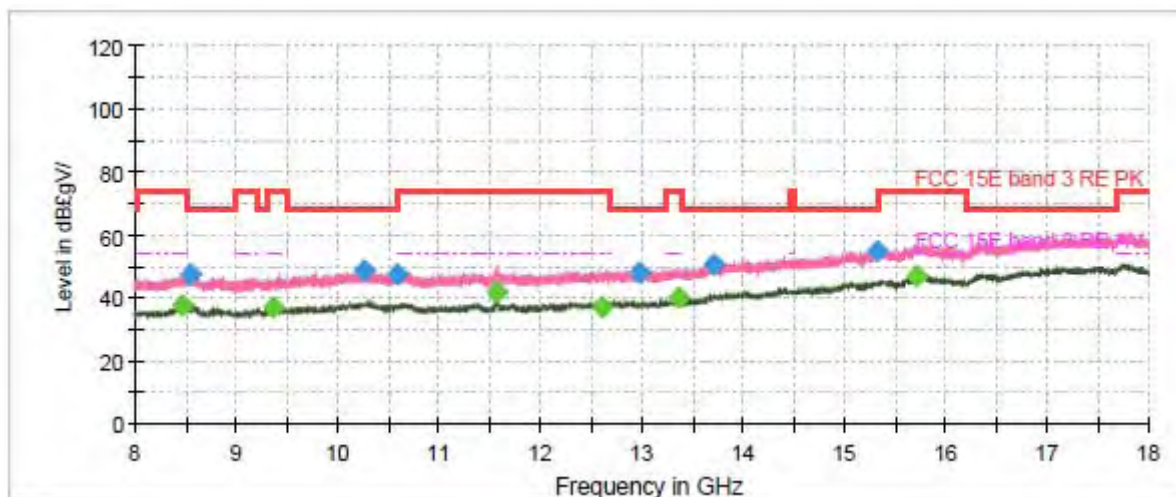
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1119.933333	---	35.35	54.00	18.65	100.0	H	284.0	-7.7
1247.566667	44.06	---	68.20	24.14	100.0	V	32.0	-7.0
1677.833333	---	36.06	54.00	17.94	100.0	V	179.0	-4.6
1977.900000	47.02	---	68.20	21.18	200.0	V	292.0	-2.8
2389.033333	---	39.53	54.00	14.47	100.0	H	85.0	-1.2
2397.666667	54.16	---	68.20	14.04	100.0	H	77.0	-1.2
2868.066667	---	37.31	54.00	16.69	100.0	H	222.0	1.1
3081.333333	47.54	---	68.20	20.66	100.0	H	77.0	2.4
3520.233333	51.02	---	68.20	17.18	200.0	H	336.0	3.8
3964.500000	---	42.59	54.00	11.41	200.0	V	80.0	5.9
5077.266667	---	44.45	54.00	9.55	100.0	H	40.0	8.7
5526.433333	54.57	---	68.20	13.63	200.0	V	28.0	8.7

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

802.11n (HT20) CH157



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



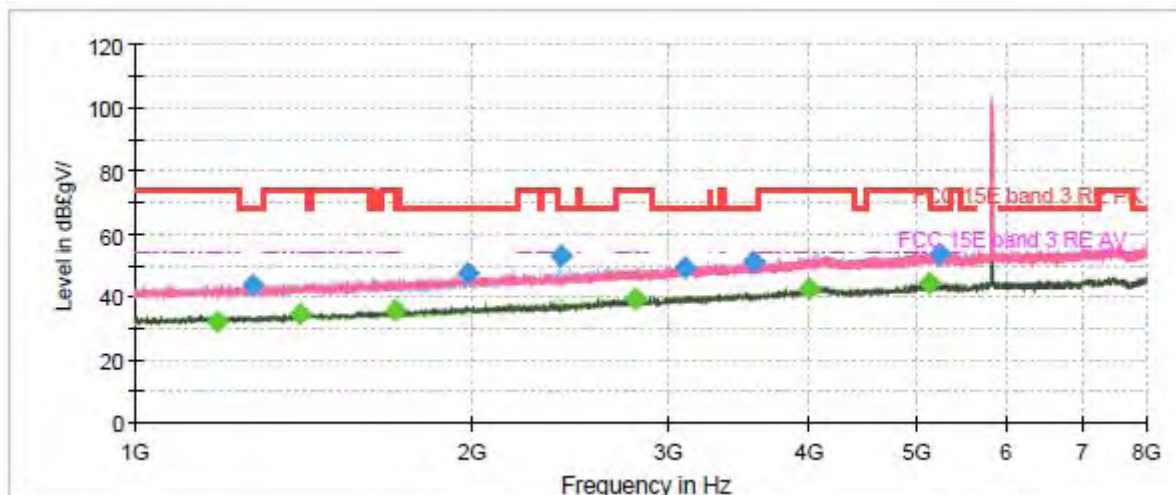
Radiates Emission from 8GHz to 18GHz



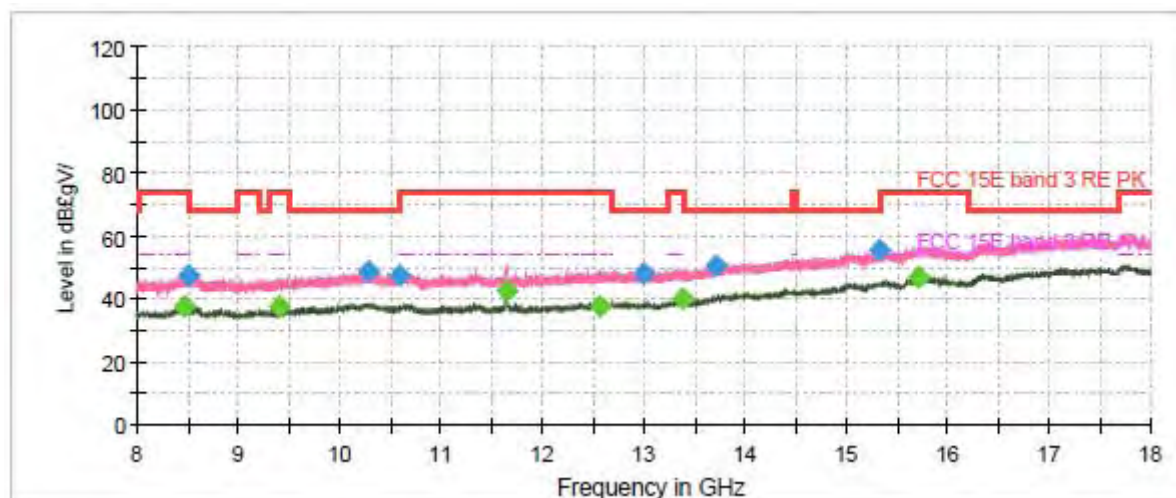
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1116.666667	---	39.20	54.00	14.80	100.0	H	85.0	-7.7
1261.100000	45.31	---	68.20	22.89	200.0	H	116.0	-6.9
1496.766667	---	38.35	54.00	15.65	100.0	H	319.0	-5.6
1743.166667	48.00	---	68.20	20.20	100.0	H	94.0	-4.2
2131.666667	52.63	---	68.20	15.57	100.0	H	0.0	-2.1
2240.633333	---	35.51	54.00	18.49	100.0	H	145.0	-1.7
2662.033333	58.63	---	68.20	9.57	200.0	H	340.0	0.4
2820.000000	---	40.09	54.00	13.91	100.0	H	341.0	1.0
3545.433333	51.44	---	68.20	16.76	100.0	H	85.0	3.8
3991.100000	---	42.27	54.00	11.73	100.0	H	0.0	6.1
5017.766667	---	44.08	54.00	9.92	200.0	V	206.0	8.7
5322.500000	59.35	---	68.20	8.85	100.0	H	275.0	8.8

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

802.11n (HT20) CH165



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



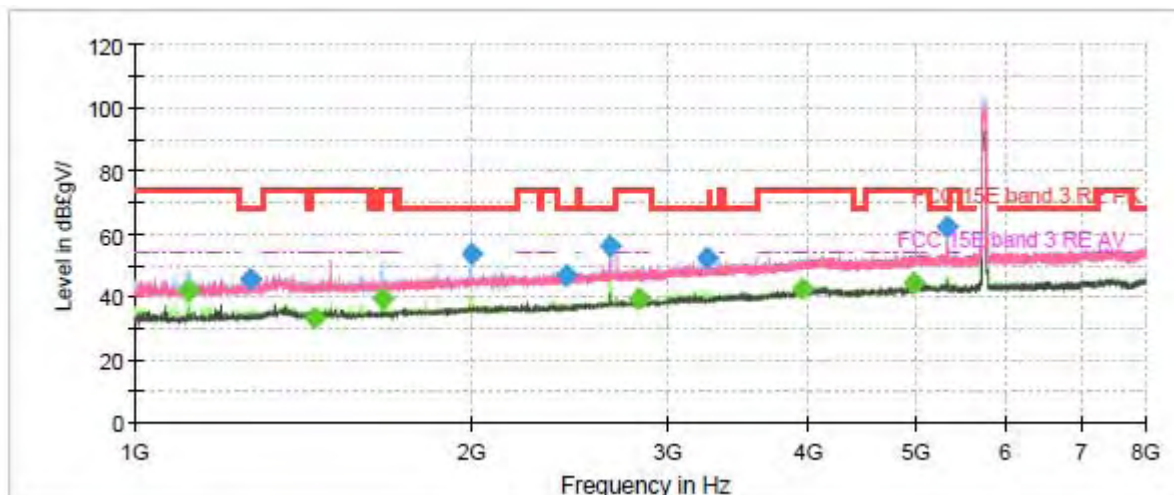
Radiates Emission from 8GHz to 18GHz



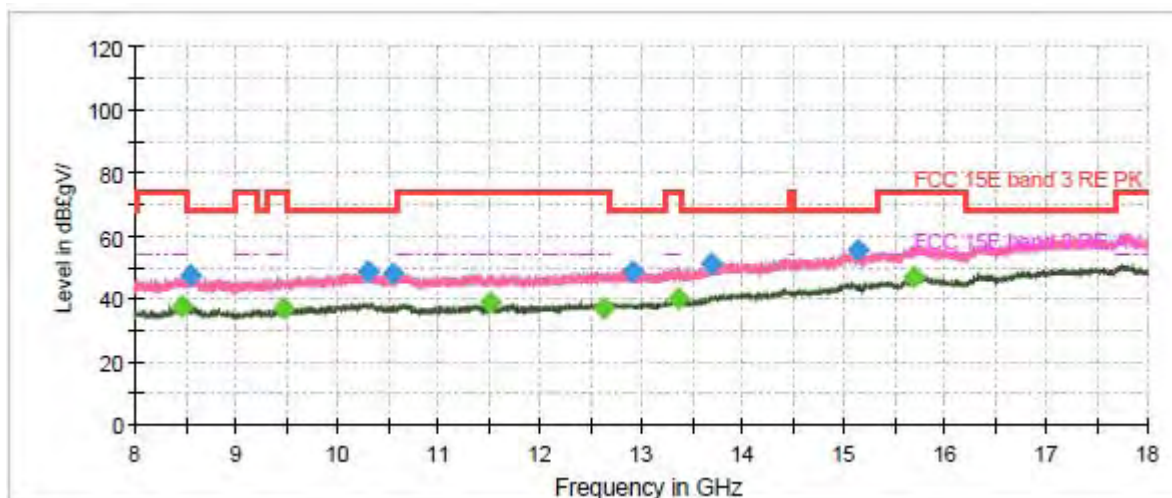
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1184.333333	---	32.22	54.00	21.78	100.0	H	93.0	-7.4
1274.633333	43.64	---	68.20	24.56	100.0	V	308.0	-6.9
1403.433333	---	34.65	54.00	19.35	100.0	V	165.0	-6.1
1707.000000	---	35.77	54.00	18.23	200.0	V	117.0	-4.4
1980.233333	47.27	---	68.20	20.93	100.0	V	333.0	-2.8
2396.500000	52.68	---	68.20	15.52	100.0	H	77.0	-1.2
2803.433333	---	39.43	54.00	14.57	100.0	H	110.0	0.9
3103.966667	49.12	---	68.20	19.08	200.0	V	142.0	2.5
3572.266667	51.34	---	68.20	16.86	100.0	V	265.0	3.9
3997.400000	---	42.58	54.00	11.42	100.0	H	110.0	6.2
5109.700000	---	44.11	54.00	9.89	100.0	H	281.0	8.7
5225.200000	53.79	---	68.20	14.41	100.0	H	7.0	8.8

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

802.11n (HT40) CH151



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



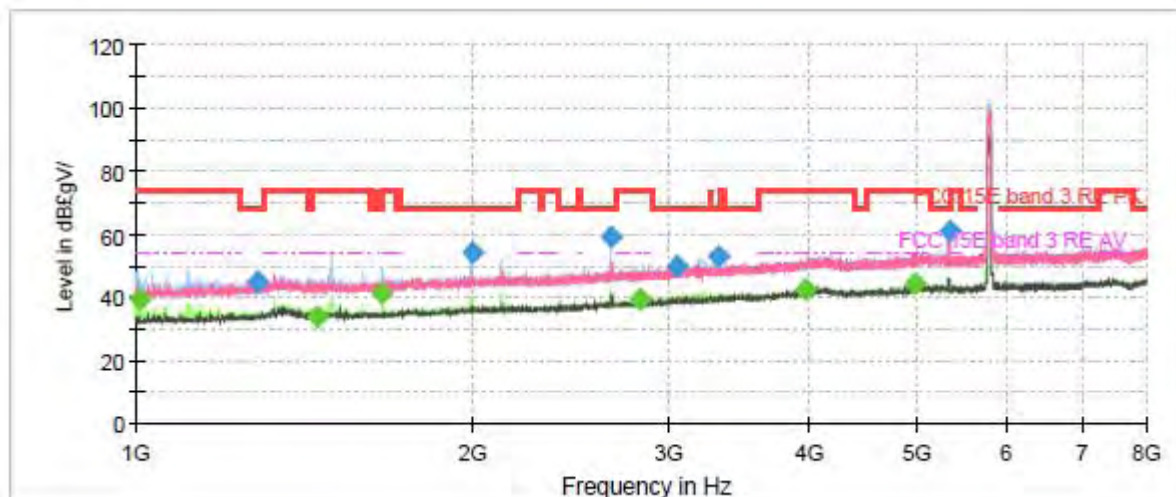
Radiates Emission from 8GHz to 18GHz



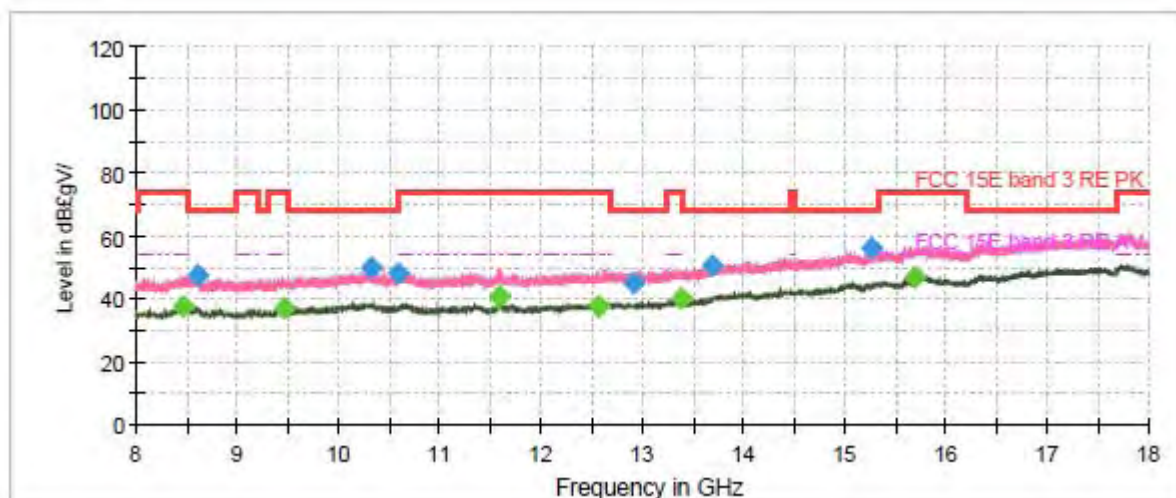
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1117.133333	---	41.80	54.00	12.20	100.0	H	88.0	-7.7
1269.033333	45.41	---	68.20	22.79	100.0	H	88.0	-6.9
1446.833333	---	33.37	54.00	20.63	200.0	H	322.0	-5.9
1665.466667	---	39.35	54.00	14.65	100.0	H	336.0	-4.7
1996.800000	53.36	---	68.20	14.84	100.0	H	20.0	-2.7
2436.633333	46.47	---	68.20	21.73	100.0	H	79.0	-1.0
2663.666667	56.08	---	68.20	12.12	100.0	H	209.0	0.4
2821.400000	---	39.64	54.00	14.36	200.0	H	24.0	1.0
3254.000000	52.36	---	68.20	15.84	100.0	H	359.0	2.8
3942.566667	---	42.62	54.00	11.38	100.0	H	105.0	5.8
4969.700000	---	44.05	54.00	9.95	100.0	H	54.0	8.5
5325.066667	61.89	---	68.20	6.31	100.0	H	336.0	8.8

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

802.11n (HT40) CH159



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



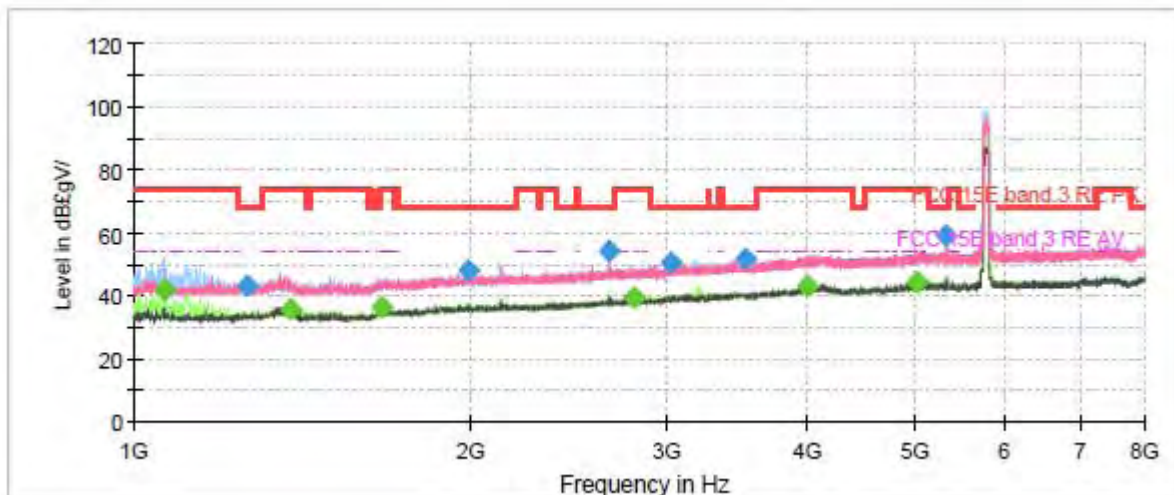
Radiates Emission from 8GHz to 18GHz



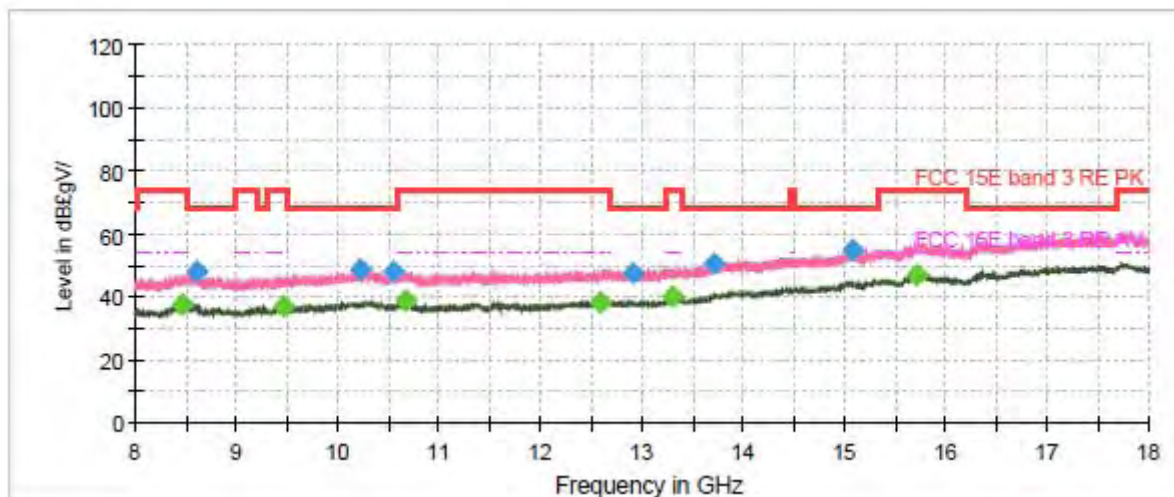
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1009.100000	---	39.27	54.00	14.73	200.0	H	95.0	-8.4
1285.133333	44.70	---	68.20	23.50	100.0	H	85.0	-6.8
1451.733333	---	34.01	54.00	19.99	100.0	H	120.0	-5.8
1661.966667	---	41.38	54.00	12.62	100.0	H	76.0	-4.7
1997.266667	53.88	---	68.20	14.32	100.0	H	7.0	-2.7
2660.866667	58.94	---	68.20	9.26	100.0	H	154.0	0.4
2826.766667	---	39.62	54.00	14.38	100.0	H	31.0	1.0
3042.833333	49.65	---	68.20	18.55	200.0	V	246.0	2.2
3319.100000	52.63	---	68.20	15.57	100.0	H	298.0	3.1
3974.533333	---	42.73	54.00	11.27	200.0	V	226.0	6.0
4967.600000	---	44.55	54.00	9.45	100.0	V	29.0	8.5
5332.533333	60.85	---	68.20	7.35	200.0	V	305.0	8.8

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

802.11ac (VHT80) CH155



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



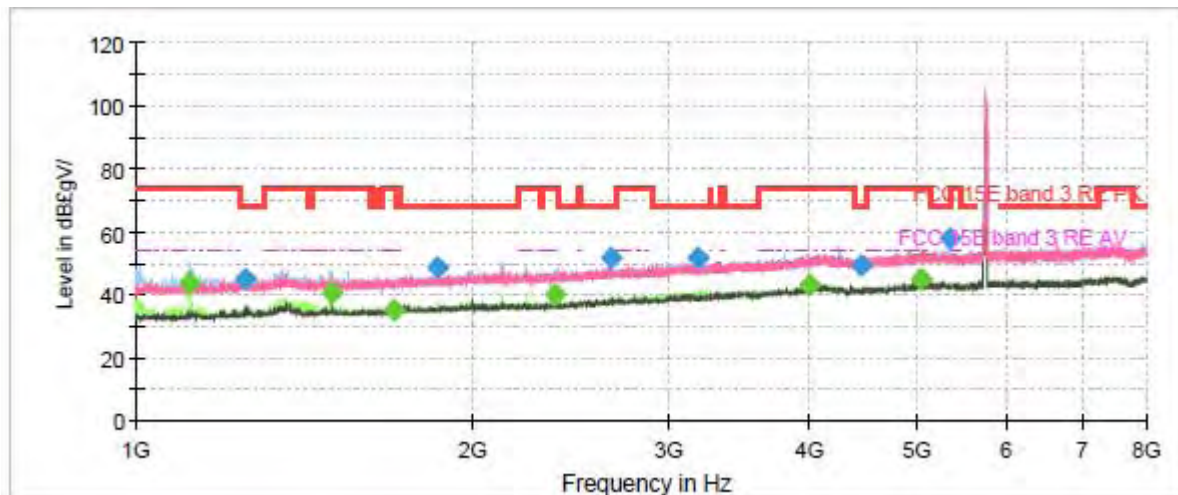
Radiates Emission from 8GHz to 18GHz



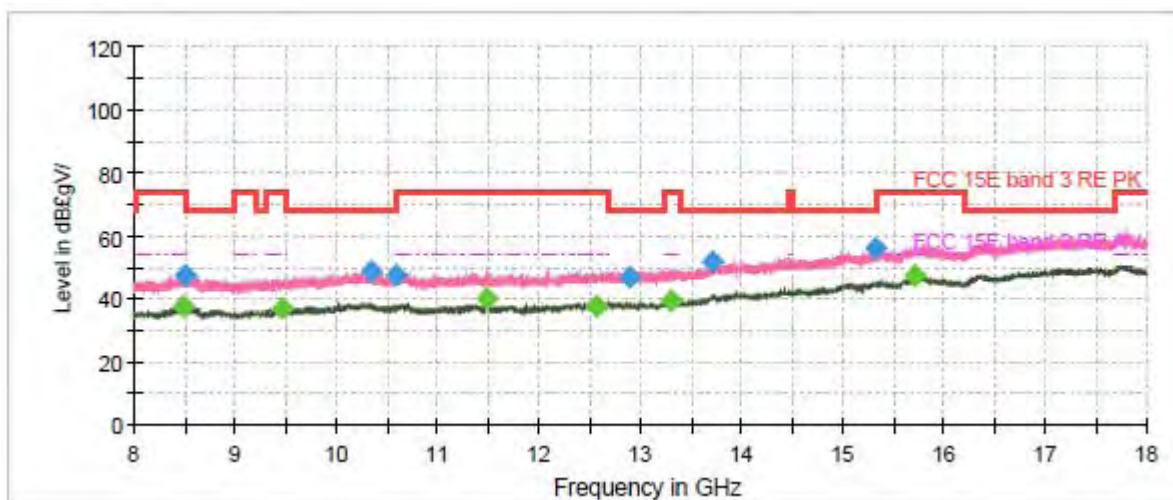
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1067.900000	---	42.15	54.00	11.85	200.0	H	79.0	-8.0
1260.866667	43.12	---	68.20	25.08	200.0	H	324.0	-6.9
1381.500000	---	35.91	54.00	18.09	100.0	V	221.0	-6.3
1663.833333	---	36.04	54.00	17.96	200.0	H	252.0	-4.7
1991.900000	47.96	---	68.20	20.24	100.0	H	159.0	-2.7
2664.600000	53.95	---	68.20	14.25	100.0	V	172.0	0.4
2793.866667	---	39.55	54.00	14.45	200.0	H	191.0	0.9
3016.000000	50.19	---	68.20	18.01	100.0	H	133.0	2.0
3519.766667	51.95	---	68.20	16.25	200.0	H	324.0	3.8
3994.833333	---	43.04	54.00	10.96	200.0	H	131.0	6.1
5012.166667	---	44.35	54.00	9.65	200.0	V	30.0	8.7
5313.400000	59.30	---	68.20	8.90	100.0	V	37.0	8.8

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

802.11ax (HE20) CH149



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



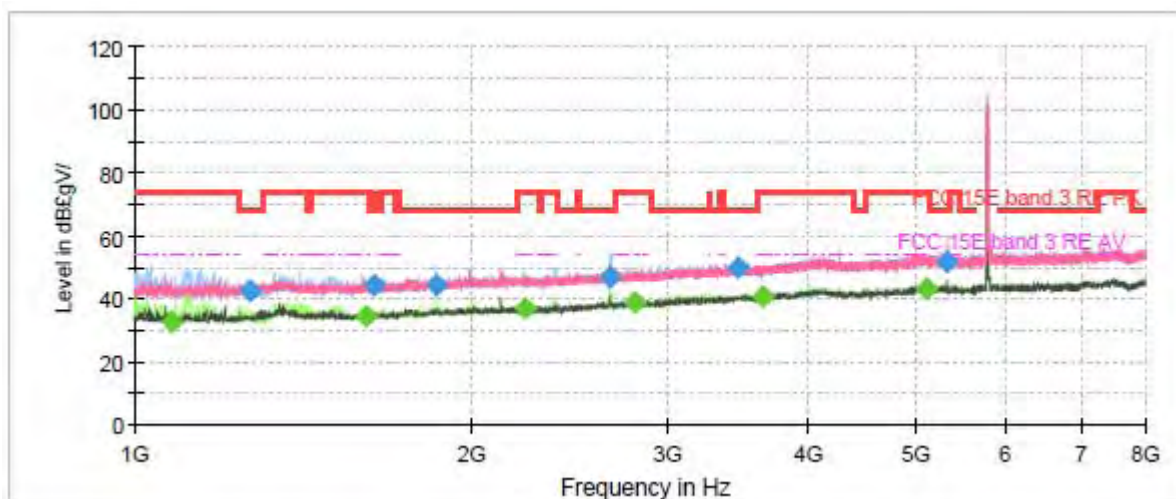
Radiates Emission from 8GHz to 18GHz



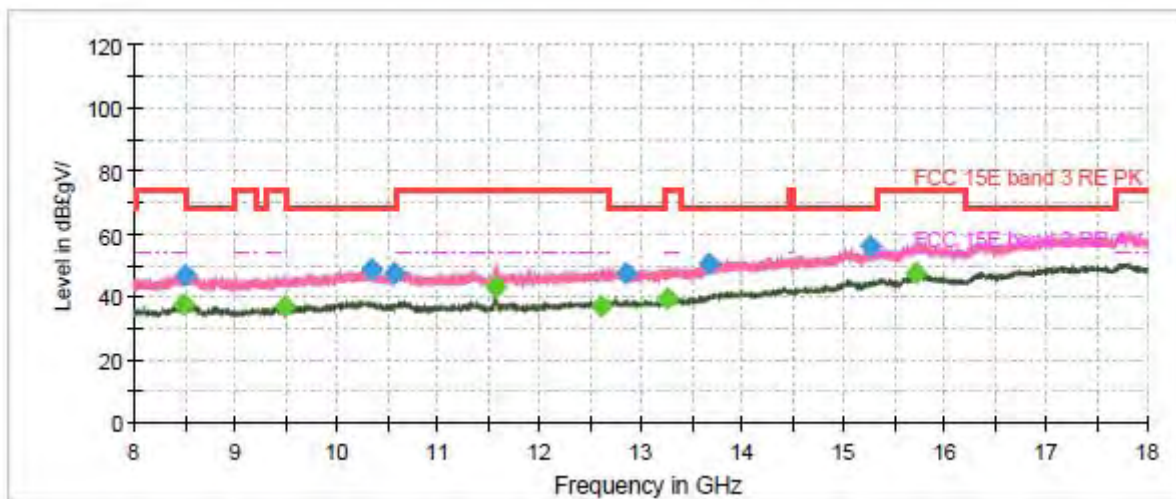
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1115.966667	---	43.85	54.00	10.15	100.0	H	67.0	-7.7
1253.633333	44.83	---	68.20	23.37	100.0	H	88.0	-7.0
1499.333333	---	40.37	54.00	13.63	100.0	H	293.0	-5.6
1703.966667	---	34.88	54.00	19.12	100.0	H	88.0	-4.5
1863.100000	48.34	---	68.20	19.86	100.0	H	76.0	-3.5
2373.866667	---	39.95	54.00	14.05	100.0	H	67.0	-1.2
2664.133333	51.90	---	68.20	16.30	200.0	H	187.0	0.4
3179.100000	51.39	---	68.20	16.81	100.0	H	325.0	2.6
3996.933333	---	42.84	54.00	11.16	200.0	V	174.0	6.2
4450.066667	49.38	---	68.20	18.82	200.0	H	213.0	6.3
5039.933333	---	44.66	54.00	9.34	200.0	V	257.0	8.7
5330.433333	57.59	---	68.20	10.61	200.0	H	0.0	8.8

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

802.11ax (HE20) CH157



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



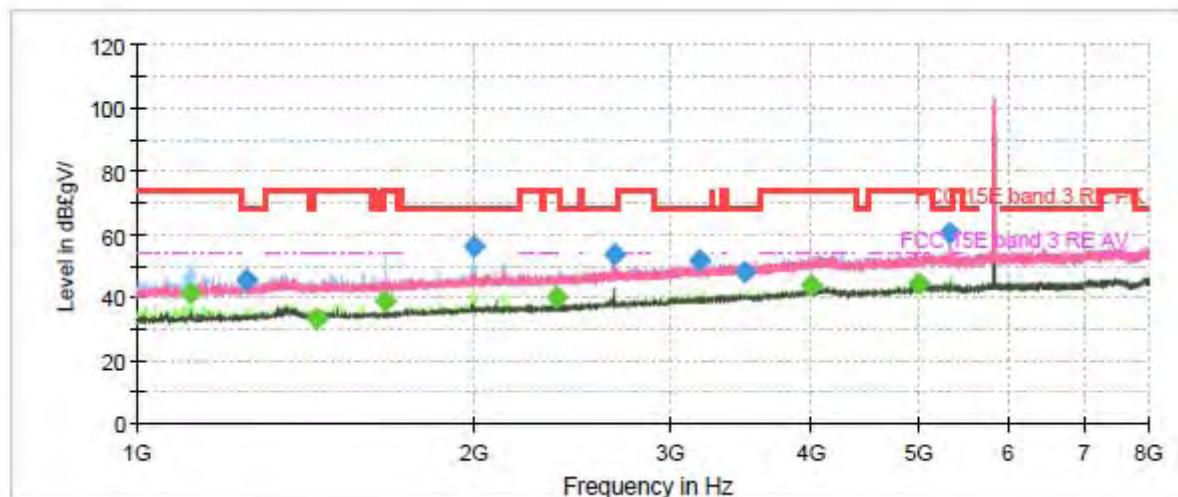
Radiates Emission from 8GHz to 18GHz



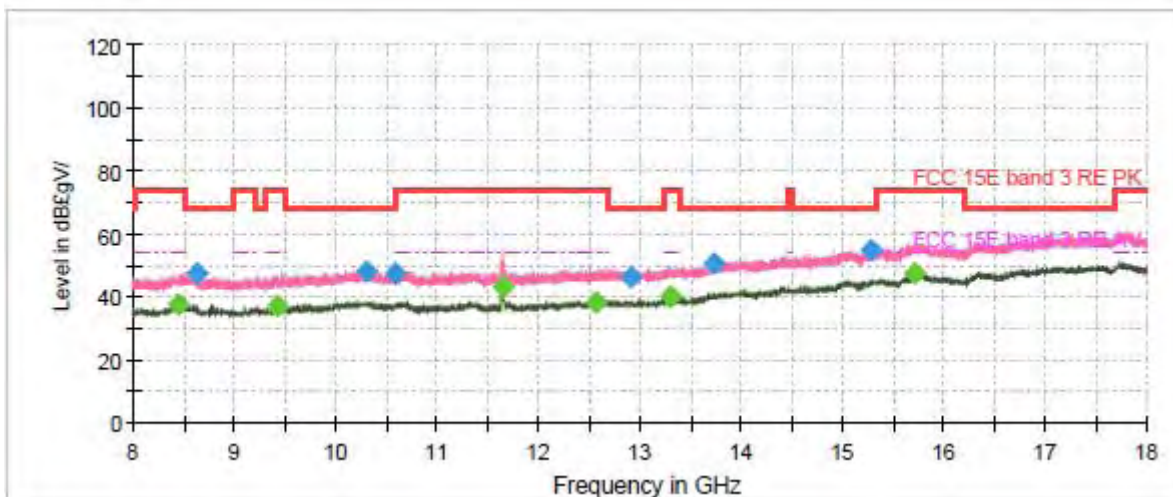
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1081.433333	---	32.82	54.00	21.18	100.0	V	3.0	-7.9
1267.633333	42.26	---	68.20	25.94	100.0	H	96.0	-6.9
1610.166667	---	34.68	54.00	19.32	200.0	V	229.0	-5.0
1638.166667	44.02	---	68.20	24.18	100.0	V	90.0	-4.8
1857.033333	44.26	---	68.20	23.94	100.0	V	204.0	-3.6
2236.666667	---	36.88	54.00	17.12	100.0	H	96.0	-1.7
2658.766667	47.06	---	68.20	21.14	100.0	V	98.0	0.4
2798.300000	---	38.63	54.00	15.37	100.0	H	184.0	0.9
3455.133333	49.74	---	68.20	18.46	200.0	V	180.0	3.6
3641.800000	---	40.79	54.00	13.21	100.0	V	90.0	4.2
5098.500000	---	42.98	54.00	11.02	200.0	H	45.0	8.7
5320.866667	51.84	---	68.20	16.36	200.0	H	79.0	8.8

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

802.11ax (HE20) CH165



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



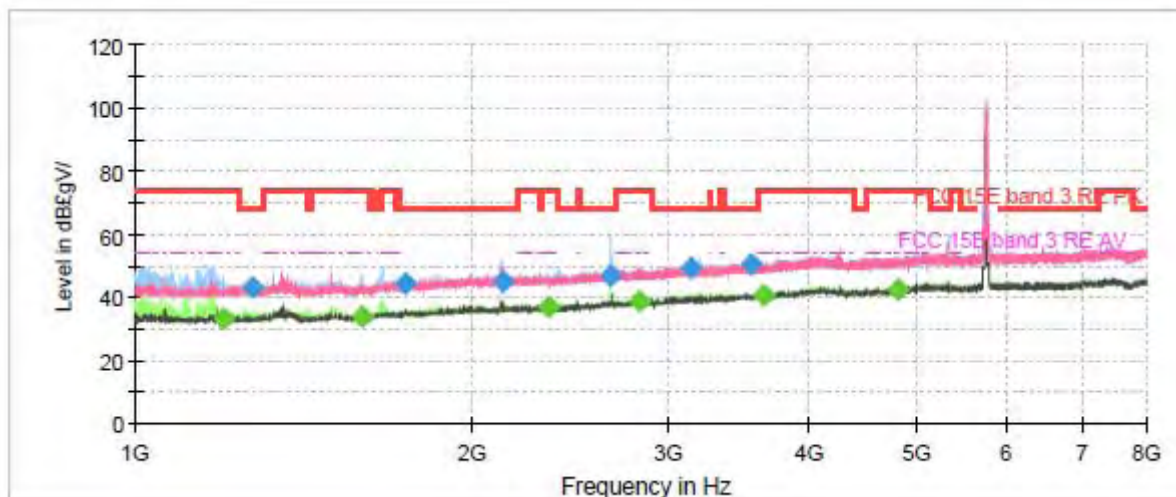
Radiates Emission from 8GHz to 18GHz



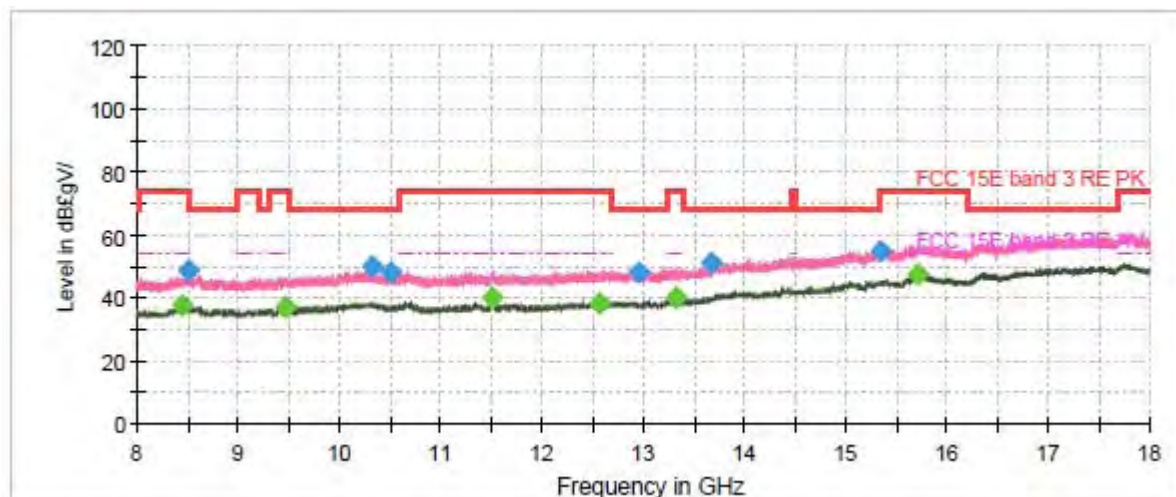
Frequency (MHz)	Peak (dBUV/m)	Average (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1115.266667	---	41.40	54.00	12.60	100.0	H	70.0	-7.7
1250.833333	45.30	---	68.20	22.90	100.0	H	105.0	-7.0
1446.133333	---	33.44	54.00	20.56	100.0	V	42.0	-5.9
1663.833333	---	39.03	54.00	14.97	100.0	H	138.0	-4.7
1997.033333	55.84	---	68.20	12.36	100.0	H	339.0	-2.7
2372.933333	---	40.19	54.00	13.81	100.0	H	70.0	-1.2
2666.000000	53.75	---	68.20	14.45	200.0	V	107.0	0.4
3178.400000	51.98	---	68.20	16.22	100.0	H	347.0	2.6
3497.833333	48.11	---	68.20	20.09	100.0	H	246.0	3.7
3997.400000	---	43.63	54.00	10.37	100.0	H	3.0	6.2
4992.800000	---	44.21	54.00	9.79	200.0	H	163.0	8.6
5326.700000	60.09	---	68.20	8.11	100.0	H	40.0	8.8

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

802.11ax (HE40) CH151



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



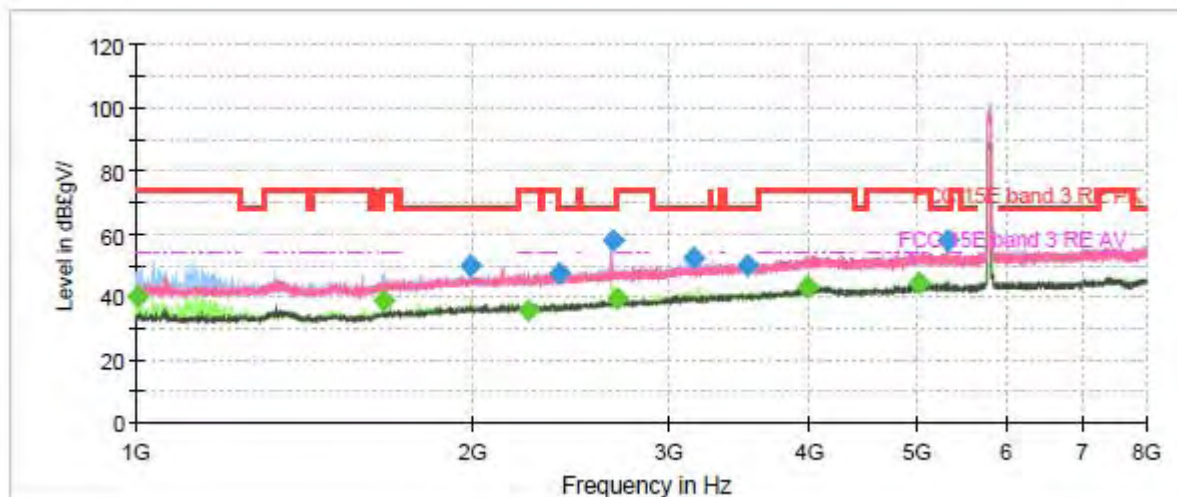
Radiates Emission from 8GHz to 18GHz



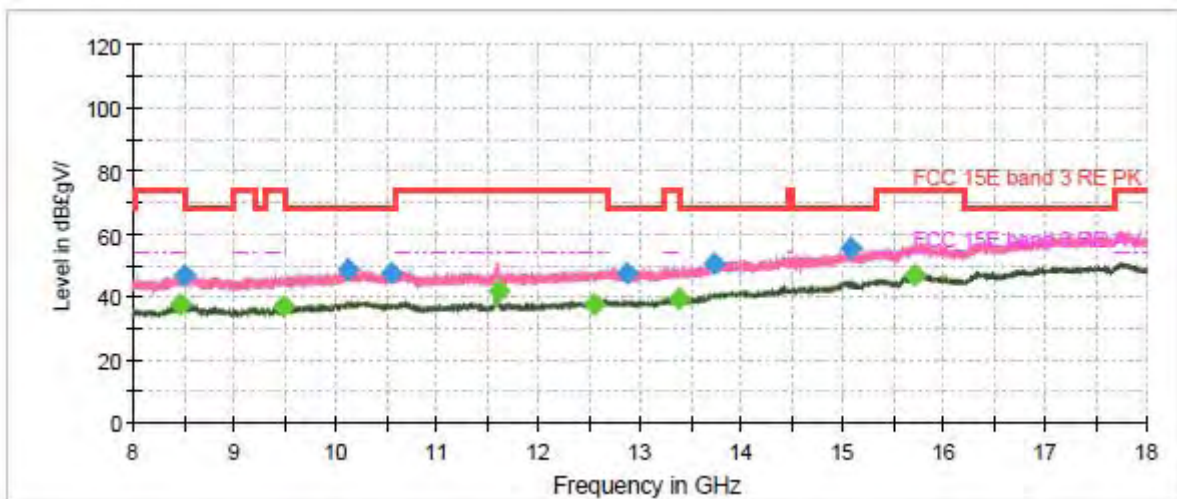
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1198.566667	---	33.05	54.00	20.95	200.0	V	303.0	-7.3
1271.833333	43.20	---	68.20	25.00	100.0	H	127.0	-6.9
1596.633333	---	33.60	54.00	20.40	100.0	V	12.0	-5.1
1743.866667	44.10	---	68.20	24.10	100.0	V	177.0	-4.2
2129.566667	45.13	---	68.20	23.07	200.0	H	123.0	-2.1
2336.766667	---	37.18	54.00	16.82	100.0	V	38.0	-1.4
2658.766667	46.59	---	68.20	21.61	200.0	V	235.0	0.4
2823.733333	---	38.87	54.00	15.13	100.0	H	292.0	1.0
3136.400000	49.23	---	68.20	18.97	200.0	H	266.0	2.5
3556.633333	50.46	---	68.20	17.74	200.0	V	226.0	3.9
3646.466667	---	40.56	54.00	13.44	100.0	V	255.0	4.3
4804.500000	---	42.64	54.00	11.36	200.0	H	157.0	7.5

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

802.11ax (HE40) CH159



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



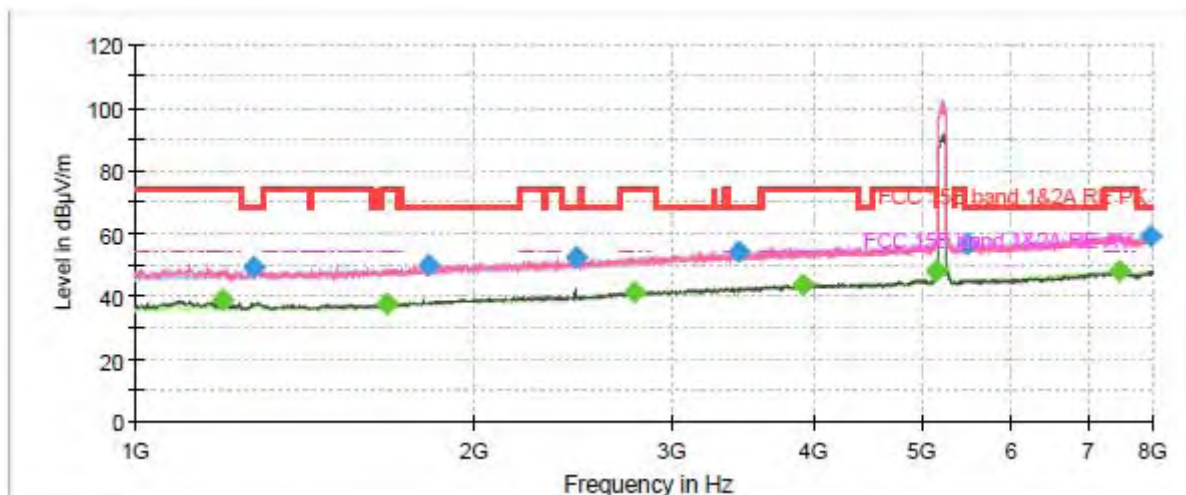
Radiates Emission from 8GHz to 18GHz



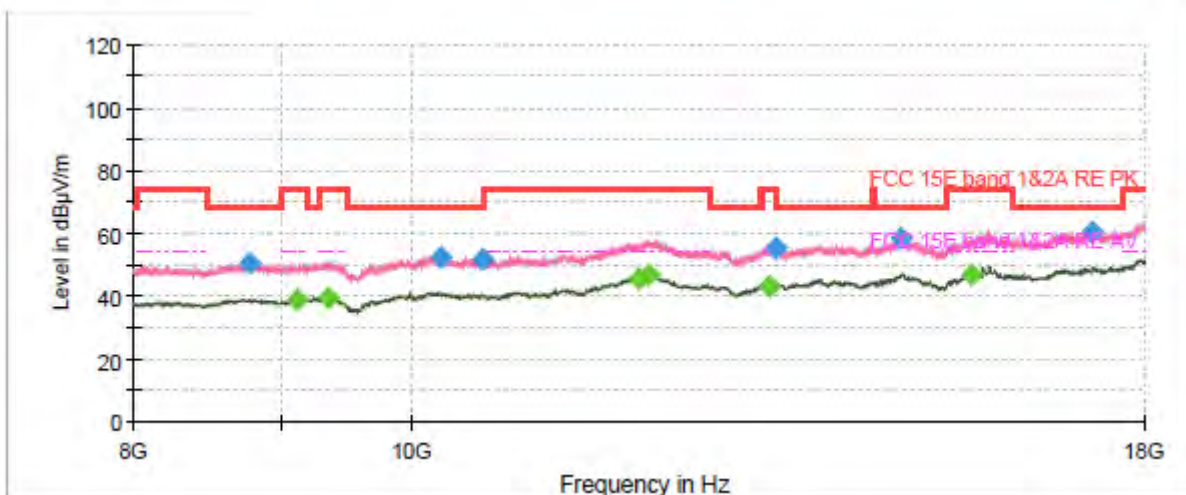
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1003.033333	---	40.07	54.00	13.93	200.0	H	75.0	-8.5
1665.700000	---	38.72	54.00	15.28	100.0	H	221.0	-4.7
1995.633333	50.06	---	68.20	18.14	100.0	H	221.0	-2.7
2246.700000	---	35.95	54.00	18.05	100.0	H	302.0	-1.7
2393.233333	47.67	---	68.20	20.53	100.0	V	106.0	-1.2
2666.233333	57.64	---	68.20	10.56	100.0	H	135.0	0.4
2690.733333	---	39.56	54.00	14.44	200.0	H	144.0	0.5
3146.666667	52.36	---	68.20	15.84	100.0	H	153.0	2.5
3518.833333	49.92	---	68.20	18.28	200.0	H	135.0	3.8
3989.233333	---	42.83	54.00	11.17	100.0	H	127.0	6.1
5001.433333	---	44.17	54.00	9.83	200.0	V	140.0	8.7
5324.833333	57.77	---	68.20	10.43	100.0	H	135.0	8.8

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

802.11ax (HE80) CH155



Radiates Emission from 1GHz to 8GHz
Note: The signal beyond the limit is carrier.



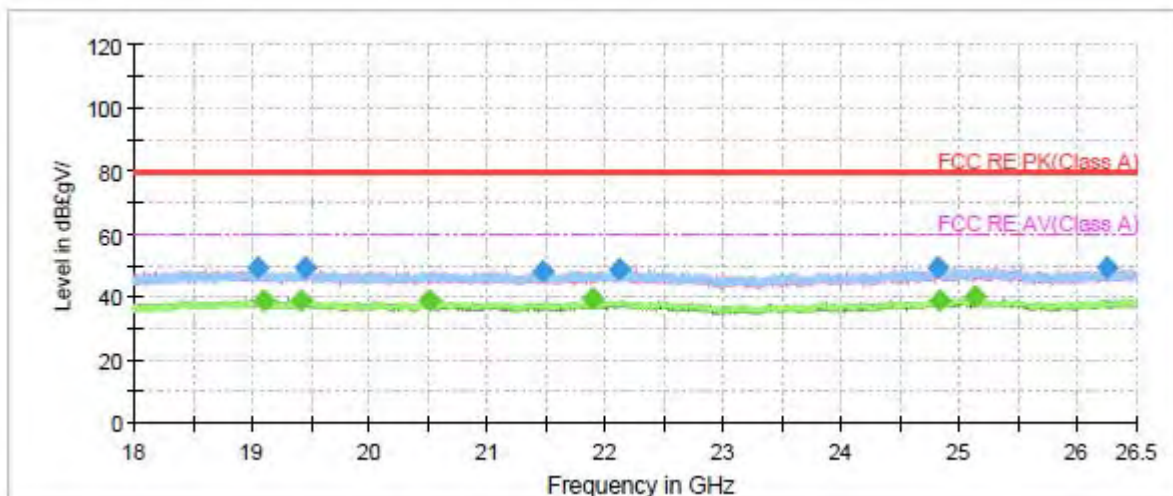
Radiates Emission from 8GHz to 18GHz



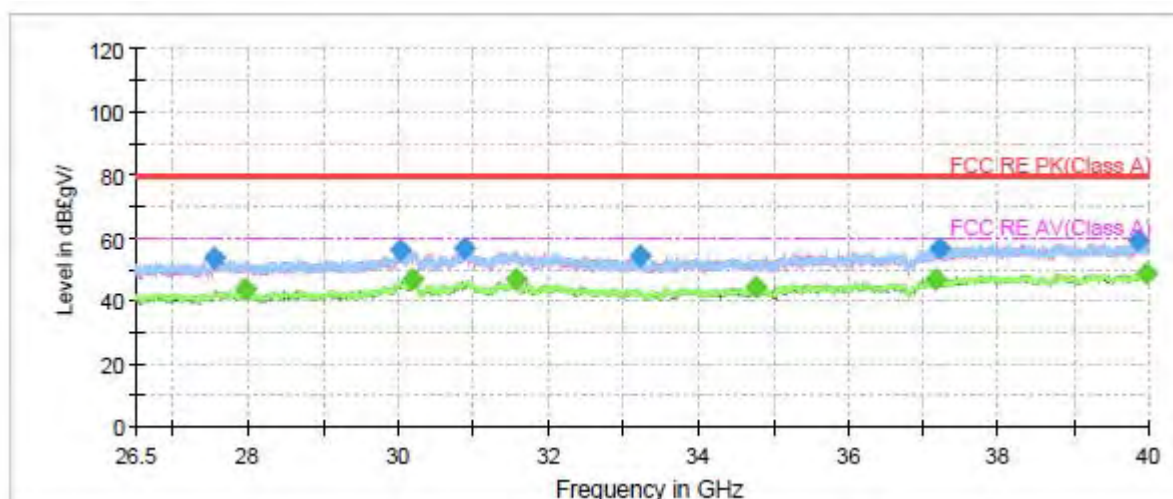
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1066.500000	52.59	---	74.00	21.41	200.0	H	99.0	-8.0
1066.500000	---	44.19	54.00	9.81	200.0	H	99.0	-8.0
1595.700000	---	38.18	54.00	15.82	100.0	H	86.0	-5.1
1996.566667	49.43	---	68.20	18.77	100.0	H	94.0	-2.7
2304.566667	---	36.87	54.00	17.13	200.0	H	99.0	-1.5
2662.733333	50.62	---	68.20	17.58	200.0	H	72.0	0.4
2806.700000	---	39.15	54.00	14.85	200.0	H	46.0	1.0
3090.900000	51.03	---	68.20	17.17	200.0	H	184.0	2.4
3535.166667	50.62	---	68.20	17.58	100.0	H	112.0	3.8
3992.033333	---	43.15	54.00	10.85	200.0	H	29.0	6.1
5014.966667	---	44.28	54.00	9.72	200.0	H	201.0	8.7
5320.633333	55.60	---	68.20	12.60	200.0	H	81.0	8.8

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

During the test, the Radiates Emission from 18GHz to 40GHz was performed in all modes with all channels, 802.11ax (HE40) CH38 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Radiates Emission from 18GHz to 26.5GHz



Radiates Emission from 26.5GHz to 40GHz

5.6. Conducted Emission

Ambient condition

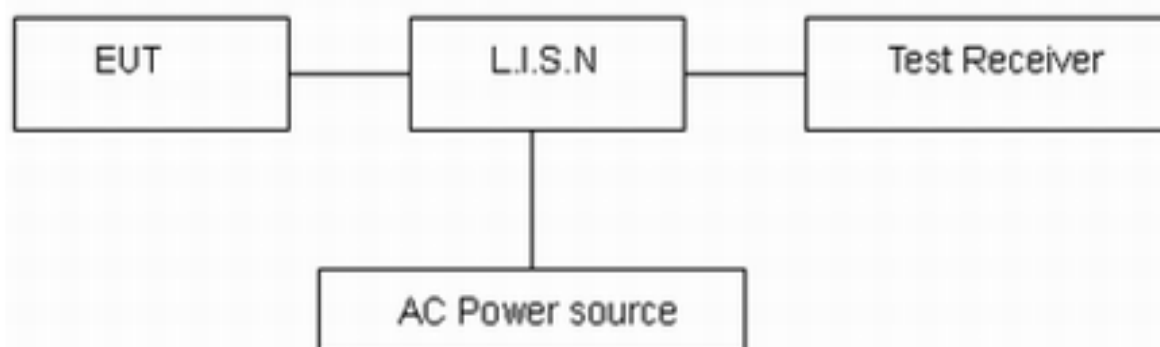
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

The EUT IS placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10. Connect the AC power line of the EUT to the LISN Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9kHz, VBW is set to 30kHz The measurement result should include both L line and N line.

The test is in transmitting mode.

Test Setup



Note: AC Power source is used to change the voltage 110V/60Hz.

Limits

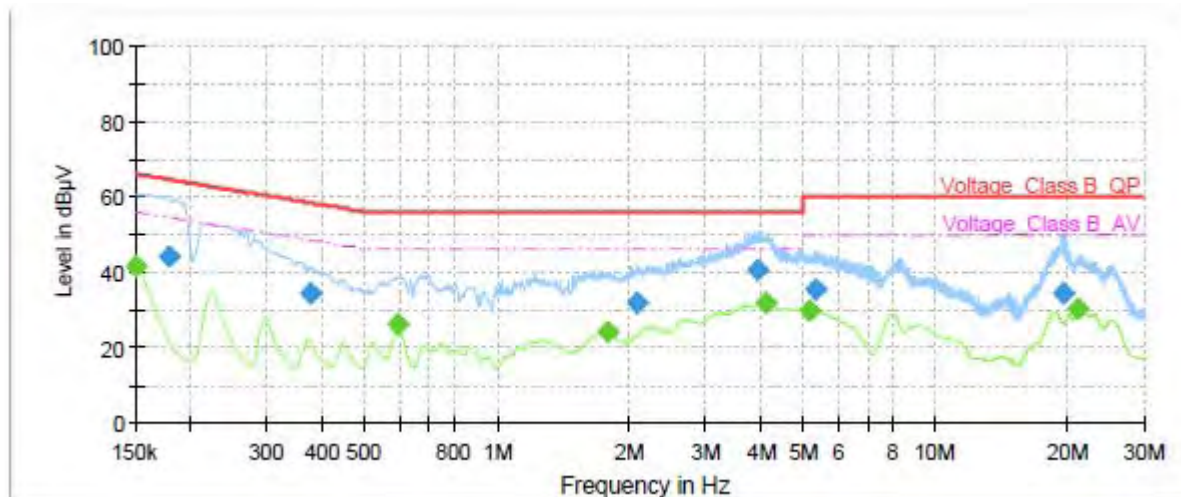
Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46*
0.5 - 5	56	46
5 - 30	60	50
*: Decreases with the logarithm of the frequency.		

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 2.69$ dB.

Test Results:

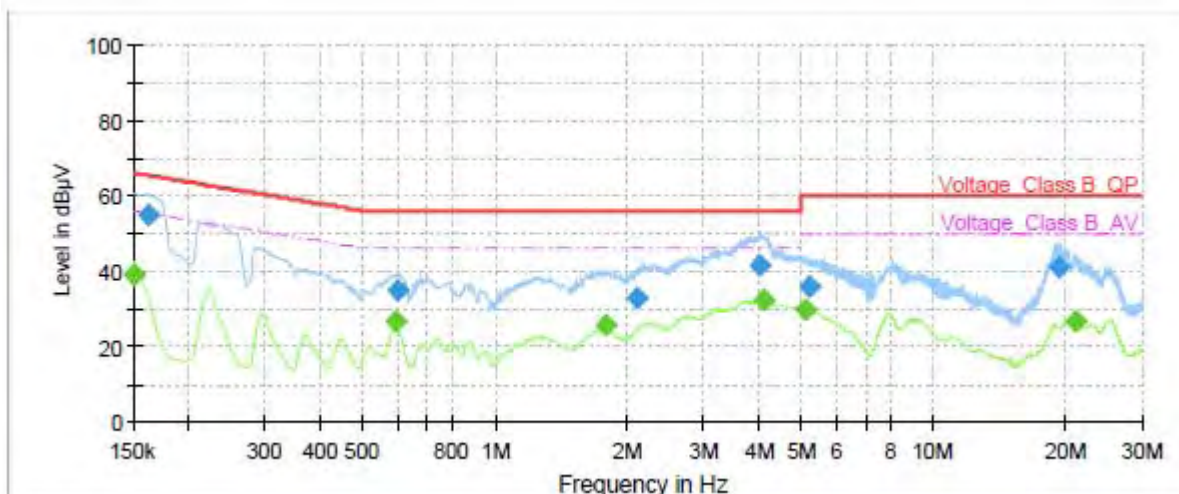
Following plots, Blue trace uses the peak detection and Green trace uses the average detection. During the test, the Conducted Emission was performed in all modes with all channels, 802.11ax (HE40) CH38 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.15	---	41.63	56.00	14.37	70.0	9.000	L1	ON	21
0.18	44.15	---	64.52	20.37	70.0	9.000	L1	ON	21
0.38	34.44	---	58.34	23.90	70.0	9.000	L1	ON	21
0.59	---	26.01	46.00	19.99	70.0	9.000	L1	ON	20
1.79	---	24.28	46.00	21.72	70.0	9.000	L1	ON	20
2.09	31.79	---	56.00	24.21	70.0	9.000	L1	ON	20
3.92	40.34	---	56.00	15.66	70.0	9.000	L1	ON	19
4.10	---	31.58	46.00	14.42	70.0	9.000	L1	ON	19
5.14	---	29.52	50.00	20.48	70.0	9.000	L1	ON	19
5.36	35.61	---	60.00	24.39	70.0	9.000	L1	ON	19
19.69	34.61	---	60.00	25.39	70.0	9.000	L1	ON	20
21.17	---	30.36	50.00	19.64	70.0	9.000	L1	ON	20

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 KHz to 30 MHz



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.15	---	38.95	56.00	17.05	70.0	9.000	N	ON	21
0.16	54.90	---	65.40	10.50	70.0	9.000	N	ON	21
0.59	---	26.51	46.00	19.49	70.0	9.000	N	ON	20
0.60	34.64	---	56.00	21.36	70.0	9.000	N	ON	20
1.78	---	25.59	46.00	20.41	70.0	9.000	N	ON	20
2.11	32.80	---	56.00	23.20	70.0	9.000	N	ON	20
4.03	41.77	---	56.00	14.23	70.0	9.000	N	ON	19
4.09	---	32.36	46.00	13.64	70.0	9.000	N	ON	19
5.14	---	29.60	50.00	20.40	70.0	9.000	N	ON	19
5.20	35.77	---	60.00	24.23	70.0	9.000	N	ON	19
19.33	41.04	---	60.00	18.96	70.0	9.000	N	ON	20
21.14	---	26.72	50.00	23.28	70.0	9.000	N	ON	20

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 KHz to 30 MHz



6. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Spectrum Analyzer	R&S	FSV40	15195-01-00	2021-05-15	2022-05-14
EMI Test Receiver	R&S	ESCI	100948	2021-05-15	2022-05-14
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2020-04-02	2023-04-01
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	391	2019-12-16	2022-12-15
Horn Antenna	R&S	HF907	102723	2018-08-11	2021-08-10
Horn Antenna	ETS-Lindgren	3160-09	00102643	2018-06-20	2023-06-19
Standard Gain Horn	STEATITE	QSH-SL-26-40 -K-15	16779	2019-12-24	2022-12-23
Broadband Horn Antenna	SCHWARZBECK	BBHA 9120D	430	2018-07-07	2023-07-06
EMI Test Receiver	R&S	ESR	101667	2021-05-16	2022-05-15
LISN	R&S	ENV216	101171	2018-12-15	2021-12-14
Spectrum Analyzer	KEYSIGHT	N9020A	MY54420163	2020-12-13	2021-12-12
RF Cable	Agilent	SMA 15cm	0001	2021-06-09	2021-12-08
TEMPERATURE CHAMBER	WEISS	VT4002	582261194500 10	2020-12-13	2021-12-12
Power Meter	R&S	NRP	104306	2021-05-15	2022-05-14
Power Sensor	R&S	NRP-Z21	104799	2021-05-15	2022-05-14
DC Power Supply	GWINSTEK	GPS-3030D	GEP882653	2021-05-15	2022-05-14
Software	R&S	EMC32	9.26.0	/	/

*****END OF REPORT *****



ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.



ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.