



U-NII-3, 802.11ac HT20, Channel No.: 149



U-NII-3, 802.11ac HT40, Channel No.: 151



U-NII-3, 802.11ac HT20, Channel No.: 157



U-NII-3, 802.11ac HT40, Channel No.: 159



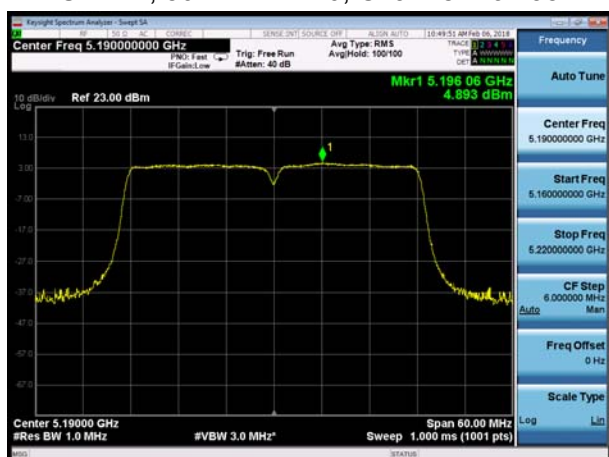
U-NII-3, 802.11ac HT20, Channel No.: 165



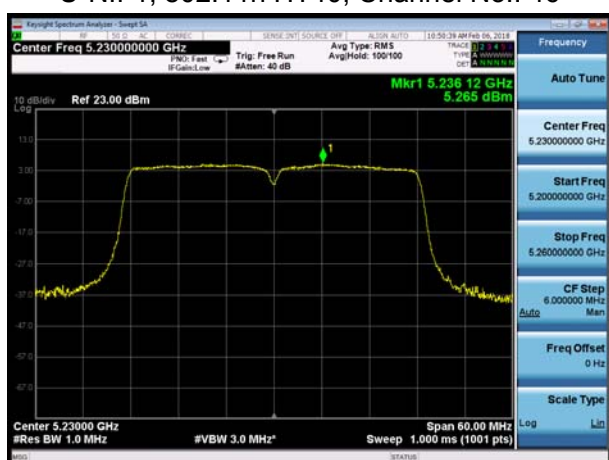
U-NII-3, 802.11ac HT80, Channel No.: 155



U-NII-1, 802.11n HT40, Channel No.: 38



U-NII-1, 802.11n HT40, Channel No.: 46



Keysight Spectrum Analyzer - Sweep SA

Center Freq 5.240000000 GHz

Ref 23.00 dBm

10 dB/div

Log

Center Freq 5.240000000 GHz

#Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 1.000 ms (1001 pts)

Span 30.00 MHz

Log

Frequency

Auto Tune

Center Freq 5.240000000 GHz

Start Freq 5.226000000 GHz

Stop Freq 5.255000000 GHz

CF Step 3.000000 MHz

Auto

Man

Freq Offset 0 Hz

Scale Type

Log

Lin

Trace 1 5.23622 GHz

TYPE 4

ORA 4.9333333

Mkr1 5.23622 GHz

6.373 dBm

10:47:18 AM Feb 09, 2018

SENSE UNIT: POWER OFF

ALPHA AUTO

TRIG: Free Run

AVG Type: RMS

AVG Hold: 100/100

PRF: 1.000 MHz

IF Gain: 3.0 dB

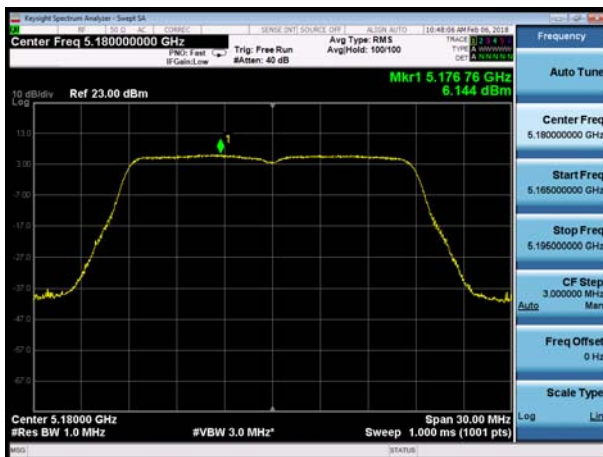
RBW: 1.0 MHz

VBW: 3.0 MHz

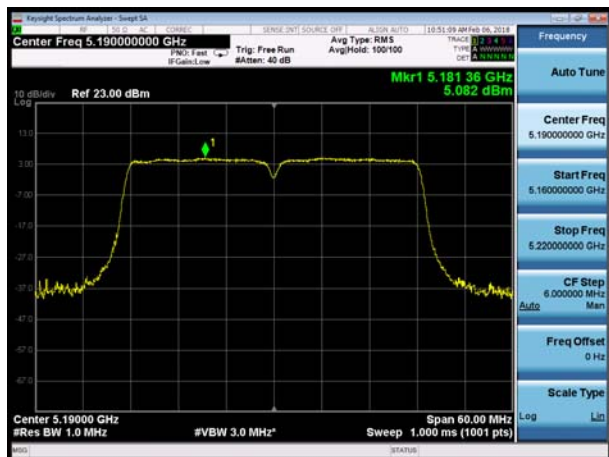
Resolution: 40 dB



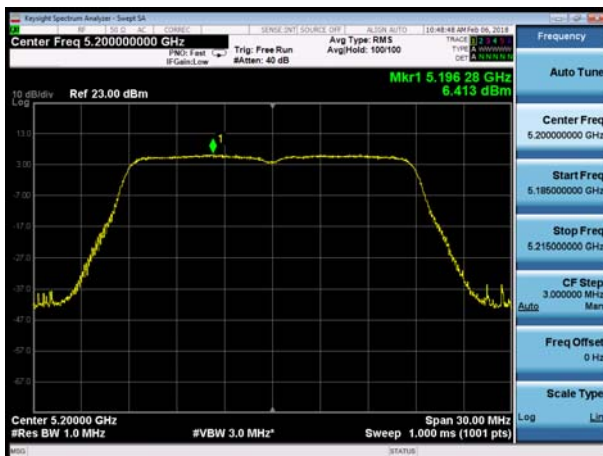
U-NII-1, 802.11ac HT20, Channel No.: 36



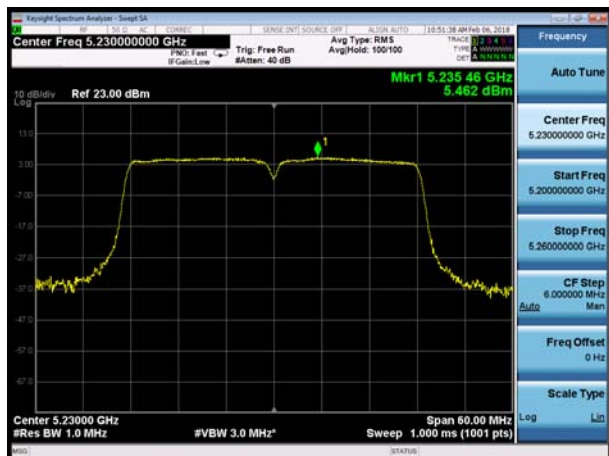
U-NII-1, 802.11ac HT40, Channel No.: 38



U-NII-1, 802.11ac HT20, Channel No.: 40



U-NII-1, 802.11ac HT40, Channel No.: 46



U-NII-1, 802.11ac HT20, Channel No.: 48

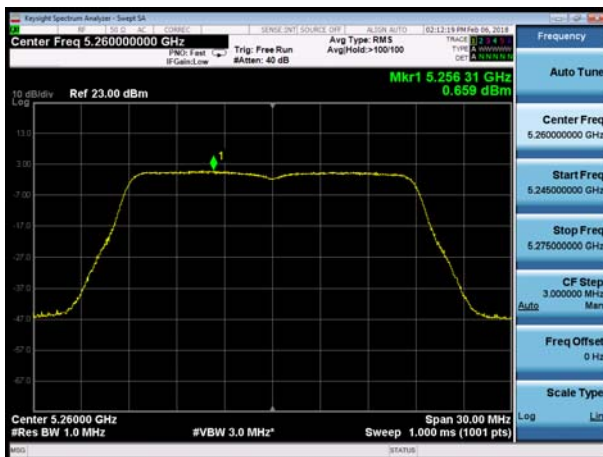


U-NII-1, 802.11ac HT80, Channel No.: 42





U-NII-2A, 802.11n HT20, Channel No.: 52



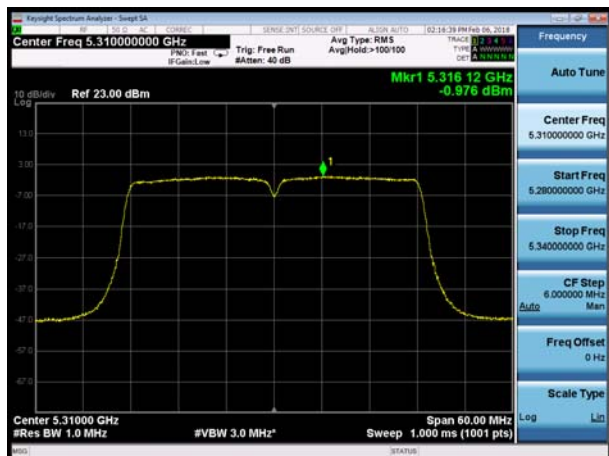
U-NII-2A, 802.11n HT40, Channel No.: 54



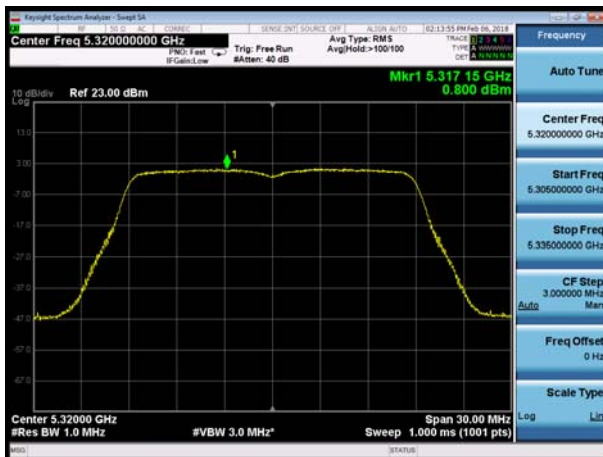
U-NII-2A, 802.11n HT20, Channel No.: 60



U-NII-2A, 802.11n HT40, Channel No.: 62



U-NII-2A, 802.11n HT20, Channel No.: 64

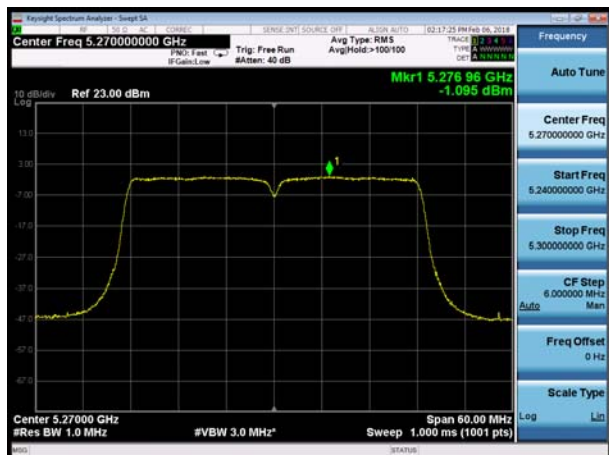




U-NII-2A, 802.11ac HT20, Channel No.: 52



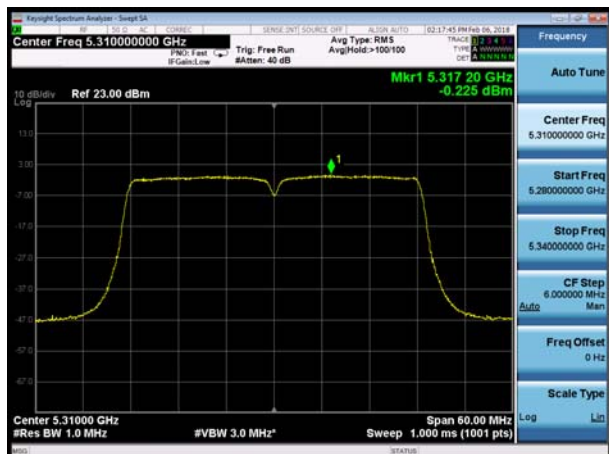
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U-NII-2A, 802.11ac HT20, Channel No.: 60



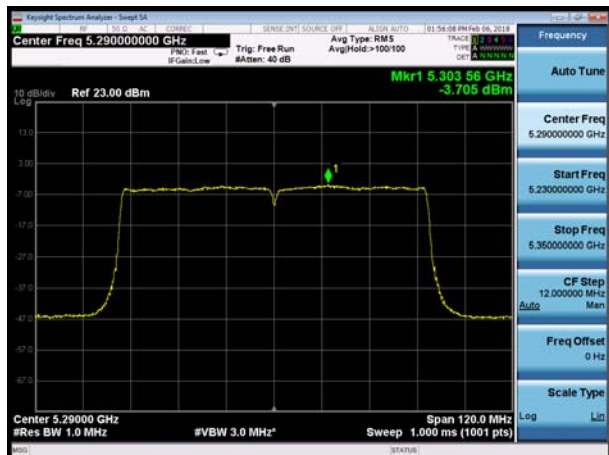
U-NII-2A, 802.11ac HT40, Channel No.: 62



U-NII-2A, 802.11ac HT20, Channel No.: 64



U-NII-2A, 802.11ac HT80, Channel No.: 58





U-NII-2C, 802.11n HT20, Channel No.: 100



U-NII-2C, 802.11n HT40, Channel No.: 102



U-NII-2C, 802.11n HT20, Channel No.: 116



U-NII-2C, 802.11n HT40, Channel No.: 110



U-NII-2C, 802.11n HT20, Channel No.: 140



U-NII-2C, 802.11n HT40, Channel No.: 134





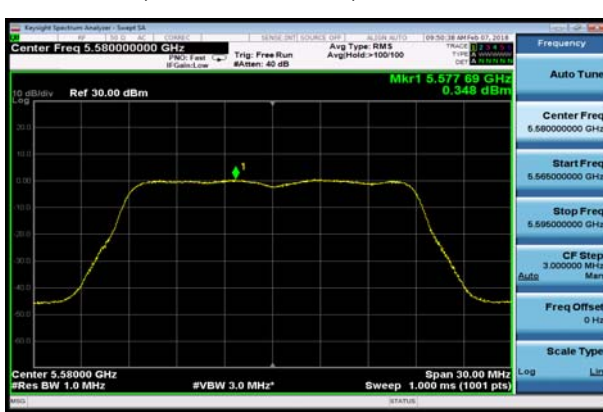
U-NII-2C, 802.11ac HT20, Channel No.: 100



U-NII-2C, 802.11ac HT40, Channel No.: 102



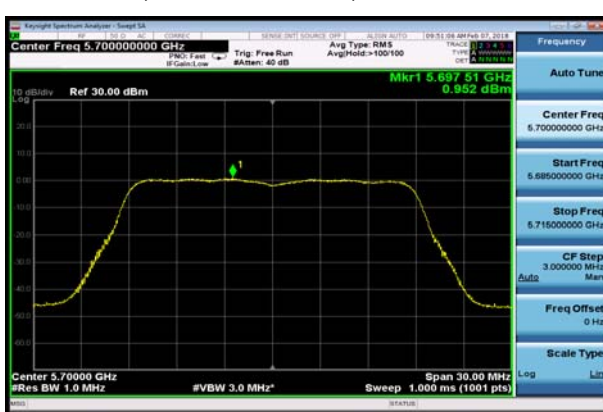
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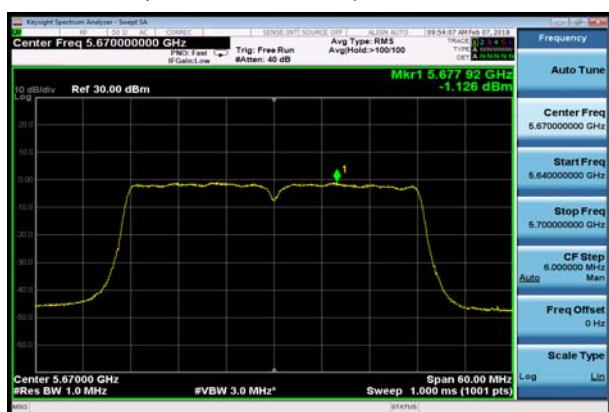
U-NII-2C, 802.11ac HT40, Channel No.: 110



U-NII-2C, 802.11ac HT20, Channel No.: 140



U-NII-2C, 802.11ac HT40, Channel No.: 134



U-NII-2C, 802.11ac HT80, Channel No.: 106





U-NII-3, 802.11n HT20, Channel No.: 149



U-NII-3, 802.11n HT40, Channel No.: 151



U-NII-3, 802.11n HT20, Channel No.: 157



U-NII-3, 802.11n HT40, Channel No.: 159



U-NII-3, 802.11n HT20, Channel No.: 165





U-NII-3, 802.11ac HT20, Channel No.: 149



U-NII-3, 802.11ac HT40, Channel No.: 151



U-NII-3, 802.11ac HT20, Channel No.: 157



U-NII-3, 802.11ac HT40, Channel No.: 159



U-NII-3, 802.11ac HT20, Channel No.: 165



U-NII-3, 802.11ac HT80, Channel No.: 155



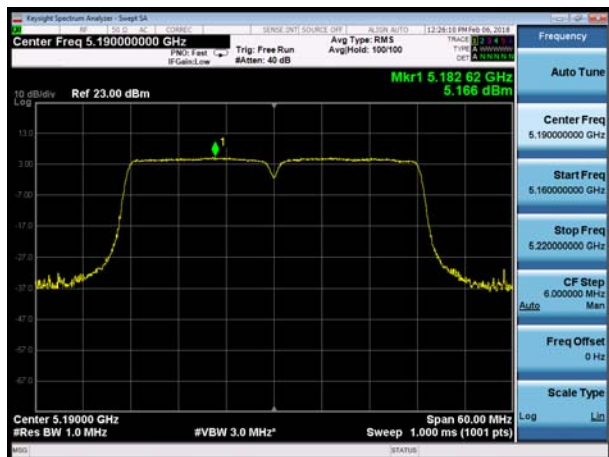


Antenna 3

U-NII-1, 802.11n HT20, Channel No.: 36



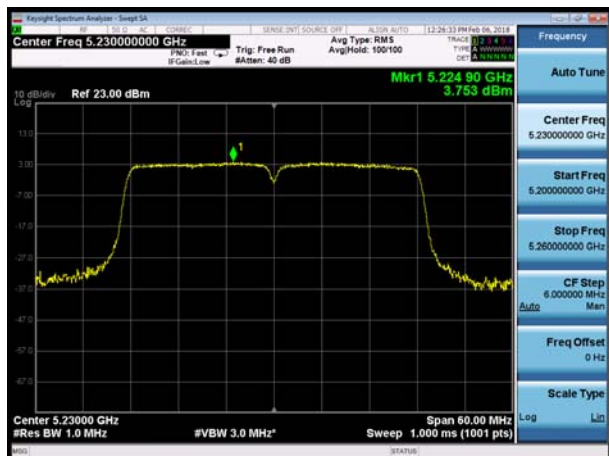
U-NII-1, 802.11n HT40, Channel No.: 38



U-NII-1, 802.11n HT20, Channel No.: 40



U-NII-1, 802.11n HT40, Channel No.: 46



U-NII-1, 802.11n HT20, Channel No.: 48





U-NII-1, 802.11ac HT20, Channel No.: 36



U-NII-1, 802.11ac HT40, Channel No.: 38



U-NII-1, 802.11ac HT20, Channel No.: 40



U-NII-1, 802.11ac HT40, Channel No.: 46



U-NII-1, 802.11ac HT20, Channel No.: 48

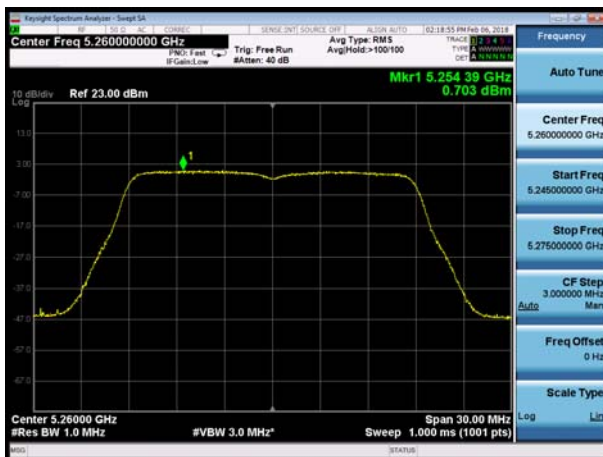


U-NII-1, 802.11ac HT80, Channel No.: 42





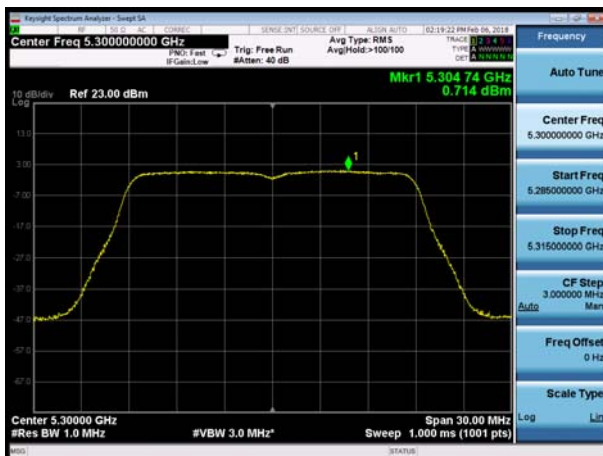
U-NII-2A, 802.11n HT20, Channel No.: 52



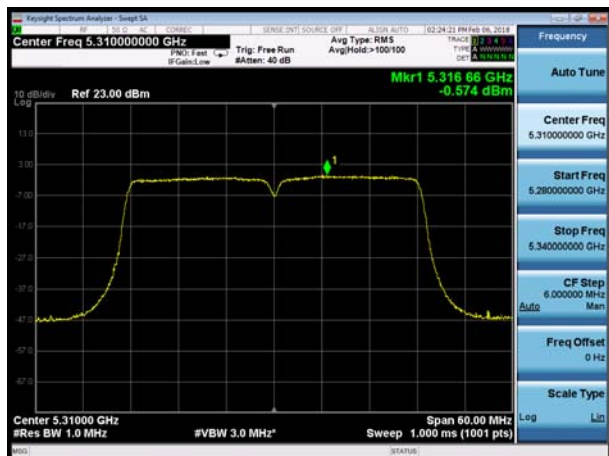
U-NII-2A, 802.11n HT40, Channel No.: 54



U-NII-2A, 802.11n HT20, Channel No.: 60



U-NII-2A, 802.11n HT40, Channel No.: 62



U-NII-2A, 802.11n HT20, Channel No.: 64





U-NII-2A, 802.11ac HT20, Channel No.: 52



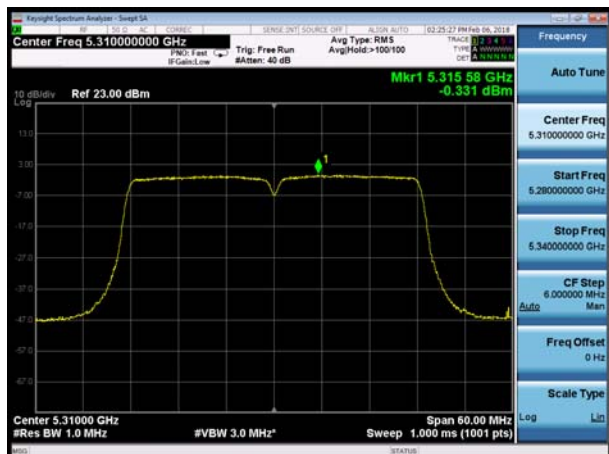
U-NII-2A, 802.11ac HT40, Channel No.: 54



U-NII-2A, 802.11ac HT20, Channel No.: 60



U-NII-2A, 802.11ac HT40, Channel No.: 62



U-NII-2A, 802.11ac HT20, Channel No.: 64



U-NII-2A, 802.11ac HT80, Channel No.: 58





U-NII-2C, 802.11n HT20, Channel No.: 100



U-NII-2C, 802.11n HT40, Channel No.: 102



U-NII-2C, 802.11n HT20, Channel No.: 116



U-NII-2C, 802.11n HT40, Channel No.: 110



U-NII-2C, 802.11n HT20, Channel No.: 140



U-NII-2C, 802.11n HT40, Channel No.: 134

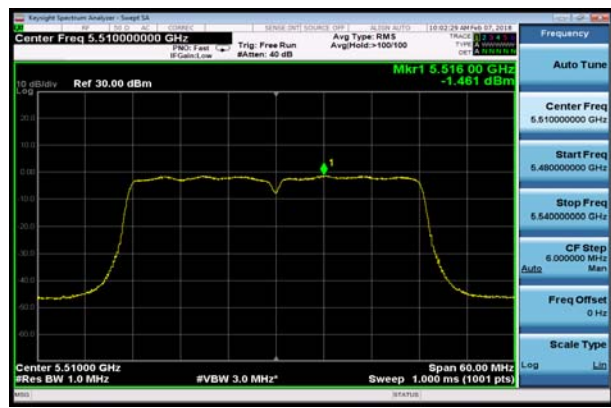




U-NII-2C, 802.11ac HT20, Channel No.: 100



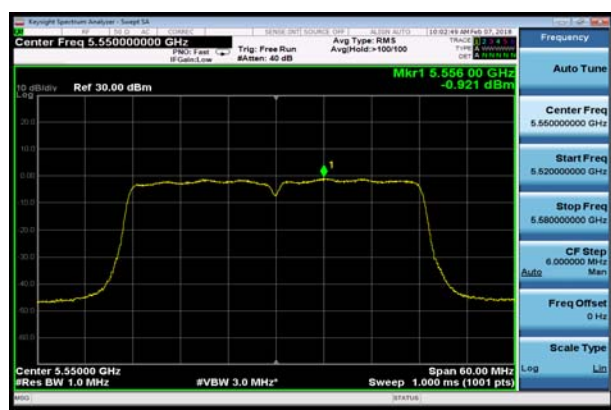
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U-NII-2C, 802.11ac HT20, Channel No.: 116



U-NII-2C, 802.11ac HT40, Channel No.: 110



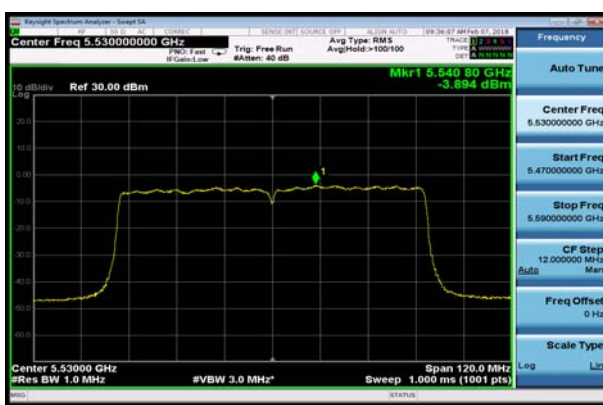
U-NII-2C, 802.11ac HT20, Channel No.: 140



U-NII-2C, 802.11ac HT40, Channel No.: 134



U-NII-2C, 802.11ac HT80, Channel No.: 106





U-NII-3, 802.11n HT20, Channel No.: 149



U-NII-3, 802.11n HT40, Channel No.: 151



U-NII-3, 802.11n HT20, Channel No.: 157



U-NII-3, 802.11n HT40, Channel No.: 159



U-NII-3, 802.11n HT20, Channel No.: 165





U-NII-3, 802.11ac HT20, Channel No.: 149



U-NII-3, 802.11ac HT40, Channel No.: 151



U-NII-3, 802.11ac HT20, Channel No.: 157



U-NII-3, 802.11ac HT40, Channel No.: 159



U-NII-3, 802.11ac HT20, Channel No.: 165



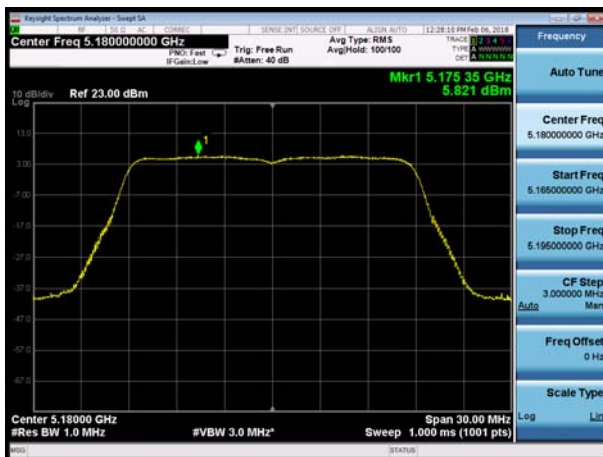
U-NII-3, 802.11ac HT80, Channel No.: 155



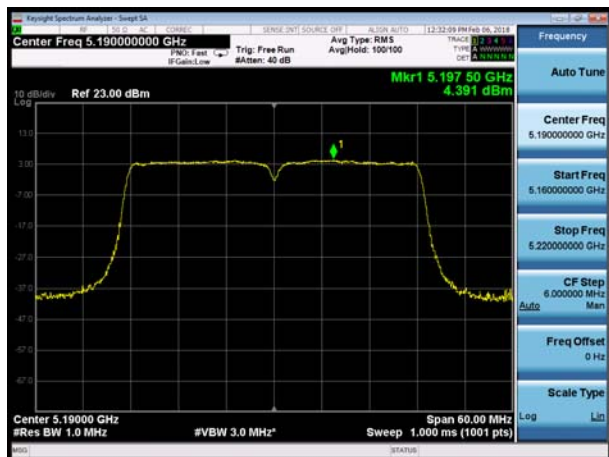


Antenna 4

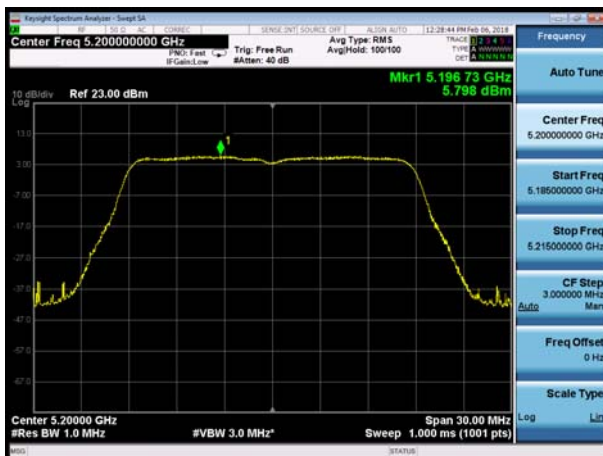
U-NII-1, 802.11n HT20, Channel No.: 36



U-NII-1, 802.11n HT40, Channel No.: 38



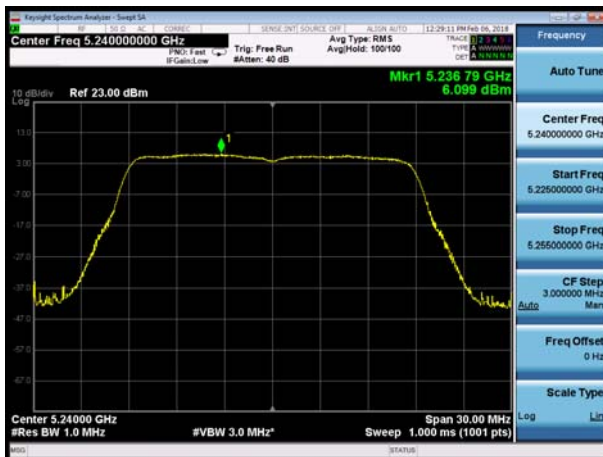
U-NII-1, 802.11n HT20, Channel No.: 40



U-NII-1, 802.11n HT40, Channel No.: 46

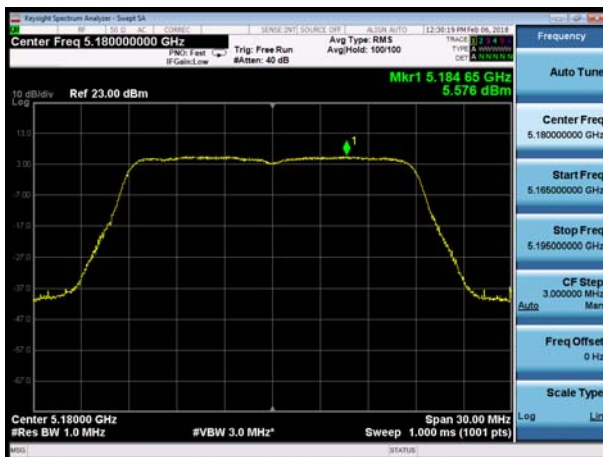


U-NII-1, 802.11n HT20, Channel No.: 48





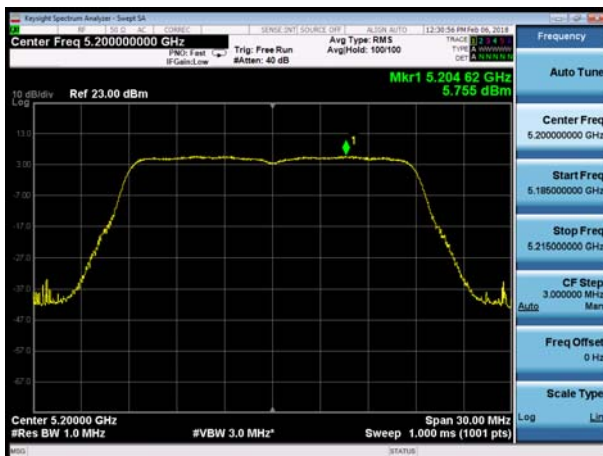
U-NII-1, 802.11ac HT20, Channel No.: 36



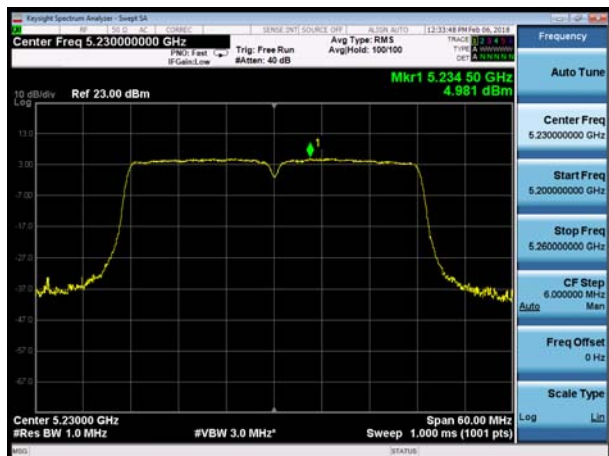
U-NII-1, 802.11ac HT40, Channel No.: 38



U-NII-1, 802.11ac HT20, Channel No.: 40



U-NII-1, 802.11ac HT40, Channel No.: 46



U-NII-1, 802.11ac HT20, Channel No.: 48

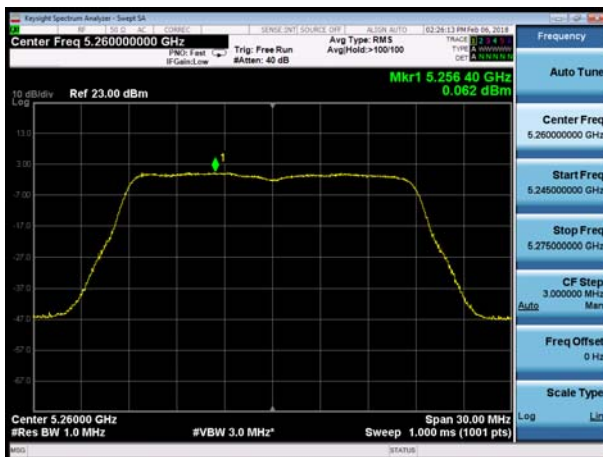


U-NII-1, 802.11ac HT80, Channel No.: 42

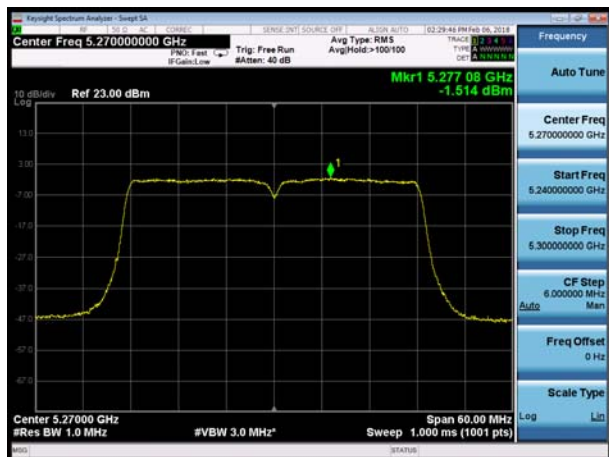




U-NII-2A, 802.11n HT20, Channel No.: 52



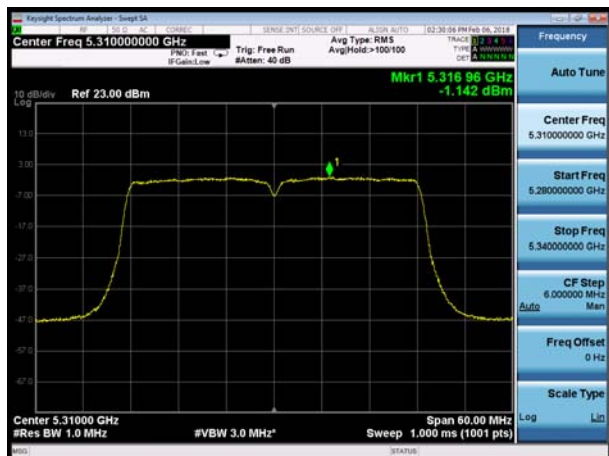
U-NII-2A, 802.11n HT40, Channel No.: 54



U-NII-2A, 802.11n HT20, Channel No.: 60



U-NII-2A, 802.11n HT40, Channel No.: 62



U-NII-2A, 802.11n HT20, Channel No.: 64

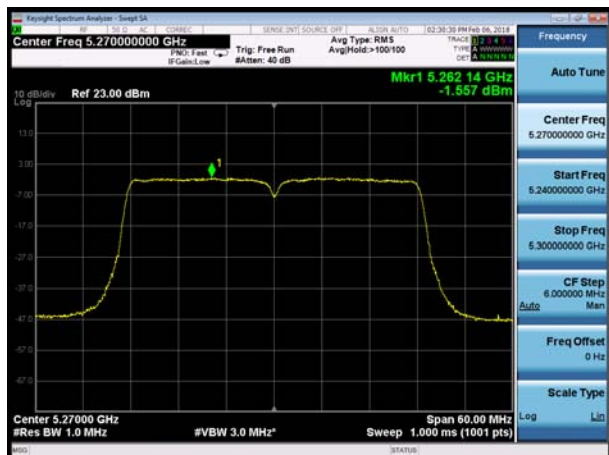




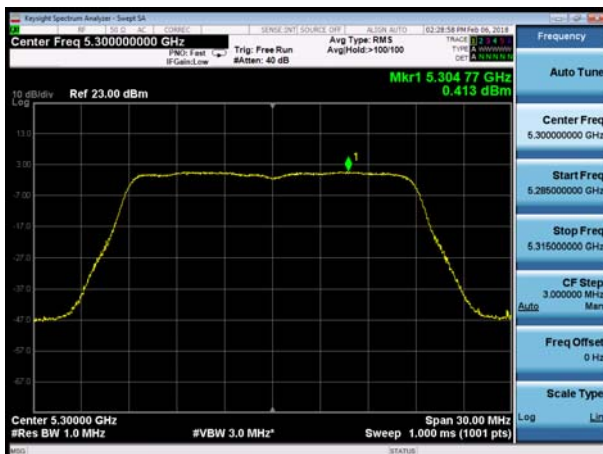
U-NII-2A, 802.11ac HT20, Channel No.: 52



U-NII-2A, 802.11ac HT40, Channel No.: 54



U-NII-2A, 802.11ac HT20, Channel No.: 60



U-NII-2A, 802.11ac HT40, Channel No.: 62



U-NII-2A, 802.11ac HT20, Channel No.: 64



U-NII-2A, 802.11ac HT80, Channel No.: 58





U-NII-2C, 802.11n HT20, Channel No.: 100



U-NII-2C, 802.11n HT40, Channel No.: 102



U-NII-2C, 802.11n HT20, Channel No.: 116



U-NII-2C, 802.11n HT40, Channel No.: 110



U-NII-2C, 802.11n HT20, Channel No.: 140



U-NII-2C, 802.11n HT40, Channel No.: 134





U-NII-2C, 802.11ac HT20, Channel No.: 100



U-NII-2C, 802.11ac HT40, Channel No.: 102



U-NII-2C, 802.11ac HT20, Channel No.: 116



U-NII-2C, 802.11ac HT40, Channel No.: 110



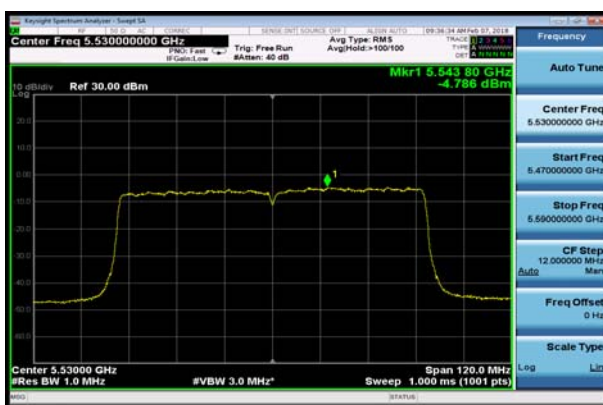
U-NII-2C, 802.11ac HT20, Channel No.: 140



U-NII-2C, 802.11ac HT40, Channel No.: 134



U-NII-2C, 802.11ac HT80, Channel No.: 106





U-NII-3, 802.11n HT20, Channel No.: 149



U-NII-3, 802.11n HT40, Channel No.: 151



U-NII-3, 802.11n HT20, Channel No.: 157



U-NII-3, 802.11n HT40, Channel No.: 159



U-NII-3, 802.11n HT20, Channel No.: 165





U-NII-3, 802.11ac HT20, Channel No.: 149



U-NII-3, 802.11ac HT40, Channel No.: 151



U-NII-3, 802.11ac HT20, Channel No.: 157



U-NII-3, 802.11ac HT40, Channel No.: 159



U-NII-3, 802.11ac HT20, Channel No.: 165



U-NII-3, 802.11ac HT80, Channel No.: 155



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 C63.10-2013. 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 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:

Below 1GHz (detector: Peak and Quasi-Peak)

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

Above 1GHz (detector: Peak):

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

- 1) RBW = 1 MHz.
- 2) VBW $\geq [3 \times \text{RBW}]$
- 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 $\geq [3 \times \text{RBW}]$.
- c) Detector = RMS (power averaging), if $[\text{span} / (\# \text{ of points in sweep})] \leq \text{RBW} / 2$. 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.

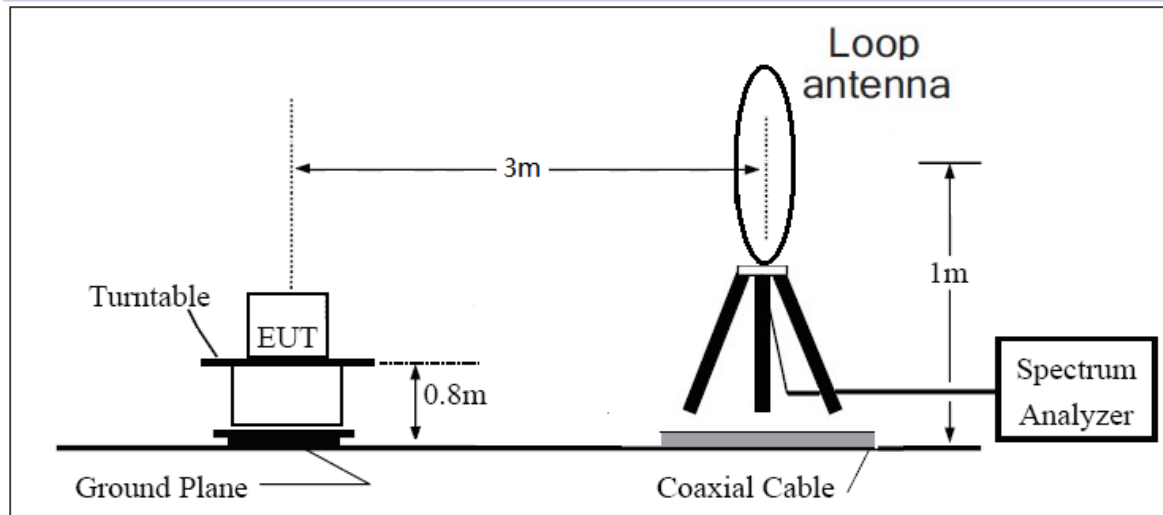
2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is $[20 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

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.

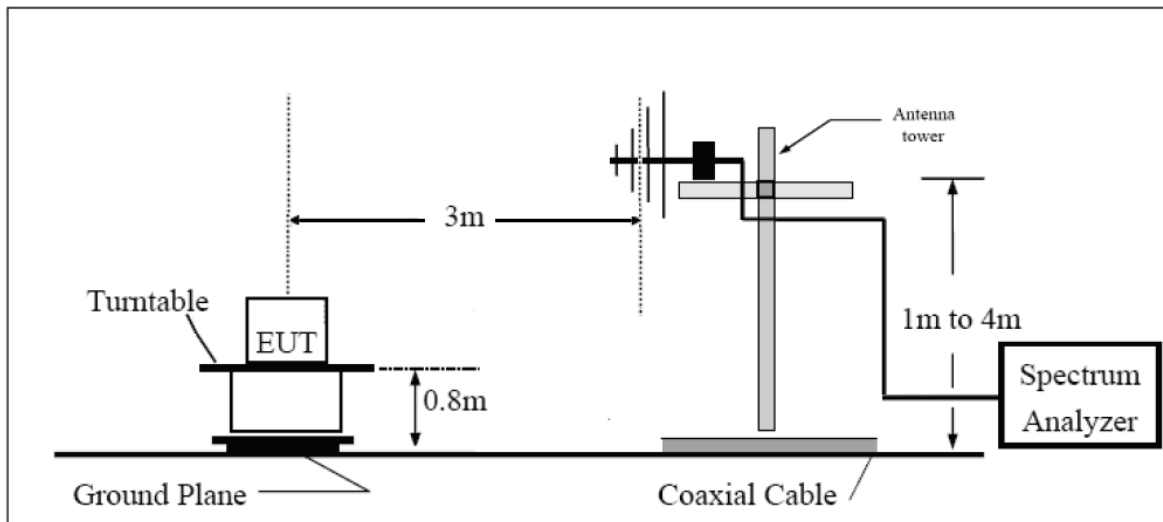
The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the antenna is vertical.

The test is in transmitting mode.

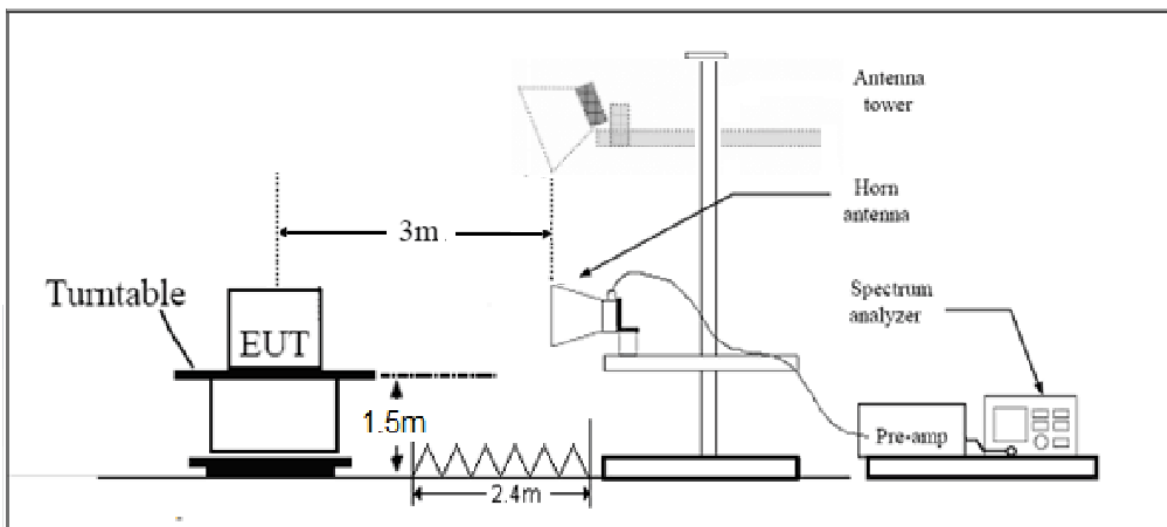
9KHz~~~30MHz



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.

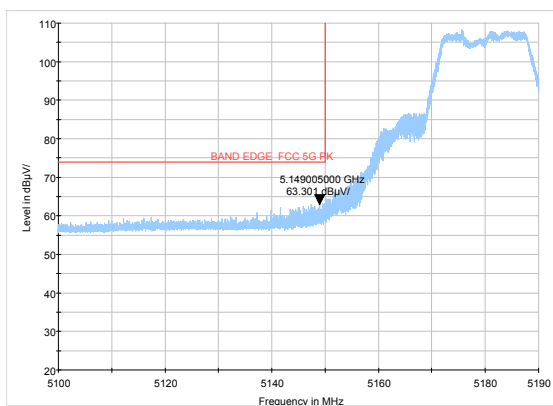
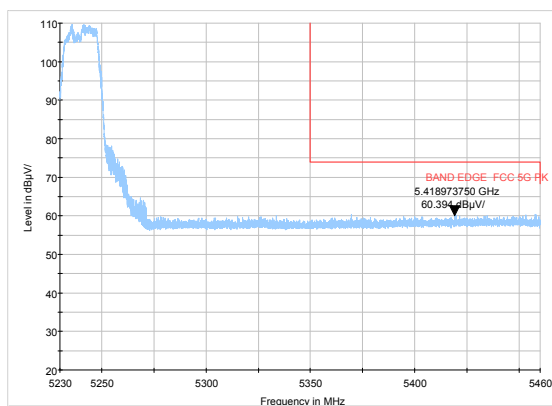
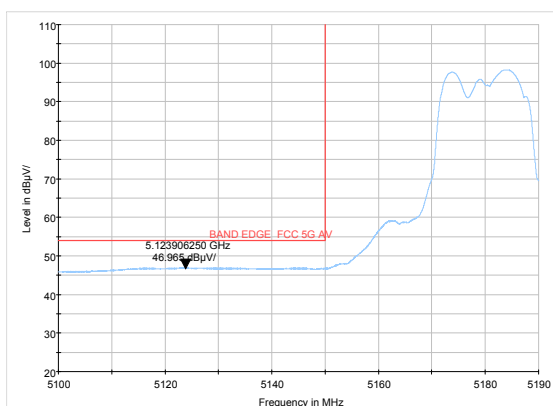
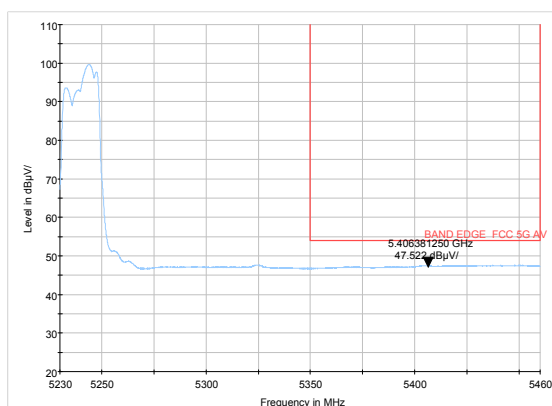
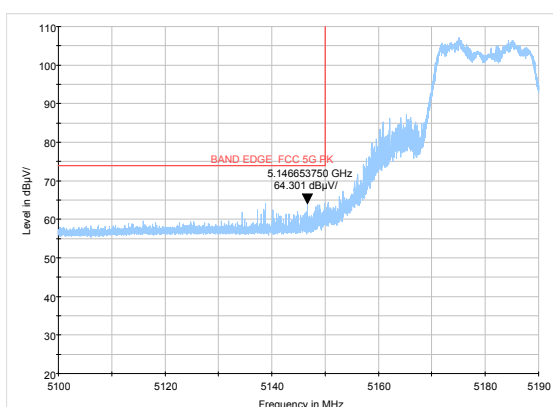
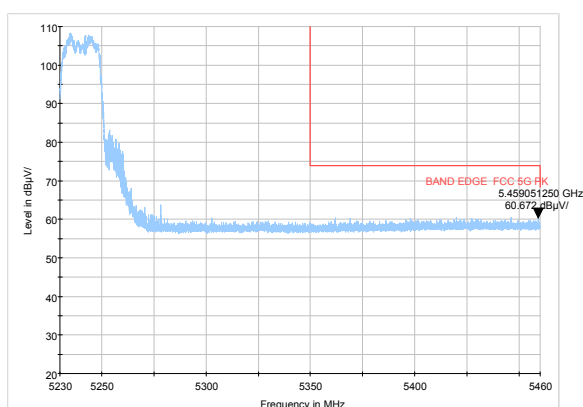
Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
0.009–0.490	2400/F(kHz)	/
0.490–1.705	24000/F(kHz)	/
1.705–30.0	30	/
30-88	100	40
88-216	150	43.5
216-960	200	46
Above960	500	54

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

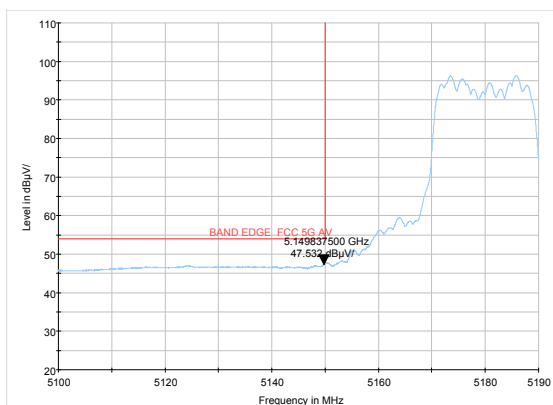
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
9KHz-30MHz	3.55 dB
30MHz-200MHz	4.19 dB
200MHz-1GHz	3.63 dB
1GHz-26.5G	3.68 dB
26.5G-40GHz	4.76dB

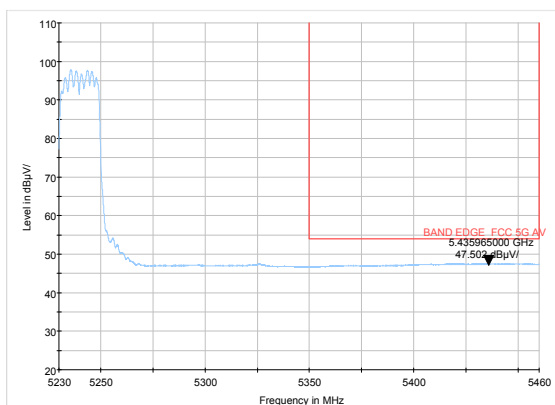
**Test Results:****The signal beyond the limit is carrier.****U-NII-1****802.11a-Channel 36: Peak****802.11a-Channel 48: Peak****802.11a-Channel 36: Average****802.11a-Channel 48: Average****802.11n HT20-Channel 36: Peak****802.11n HT20-Channel 48: Peak**



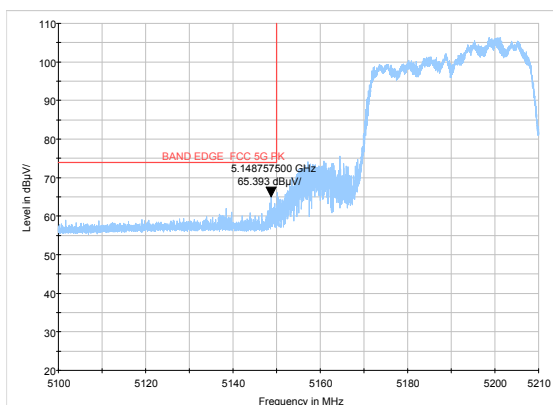
802.11n HT20-Channel 36: Average



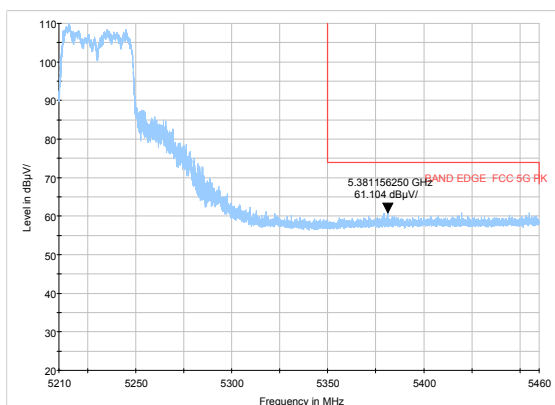
802.11n HT20-Channel 48: Average



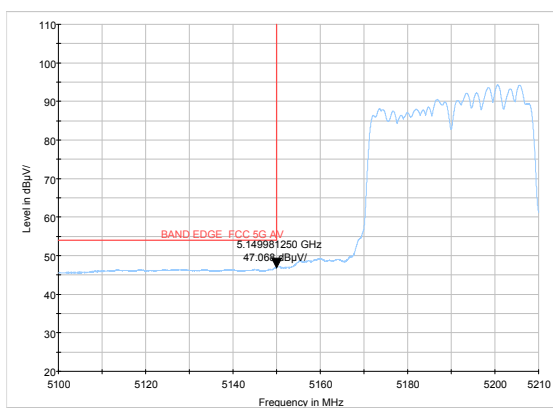
802.11n HT40-Channel 38: Peak



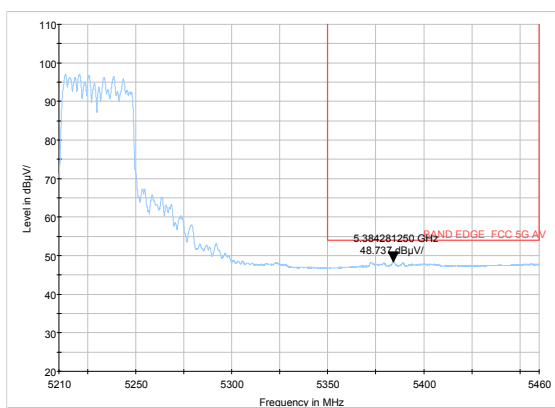
802.11n HT40-Channel 46: Peak



802.11n HT40-Channel 38: Average



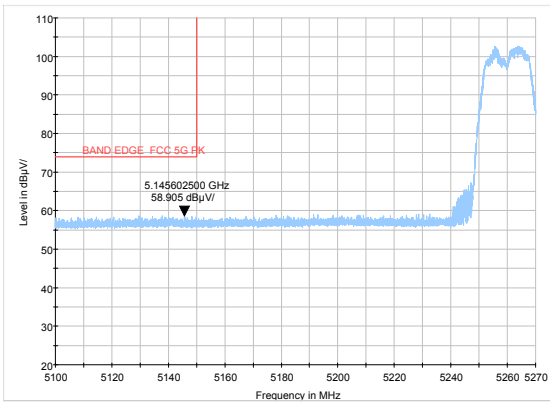
802.11n HT40-Channel 46: Average



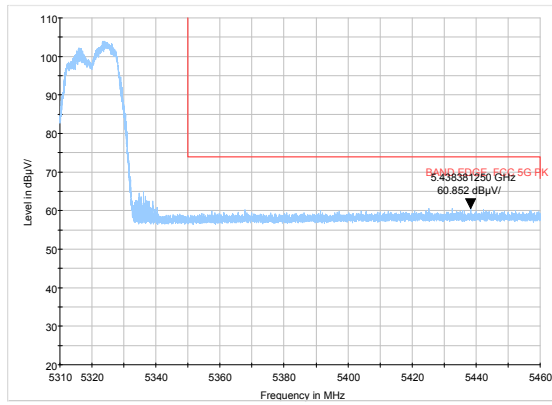


U-NII-2A

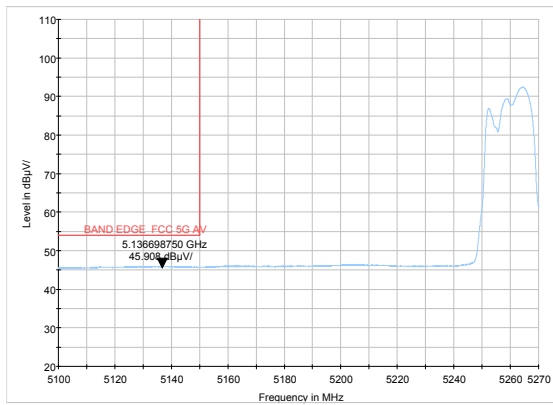
802.11a-Channel 52: Peak



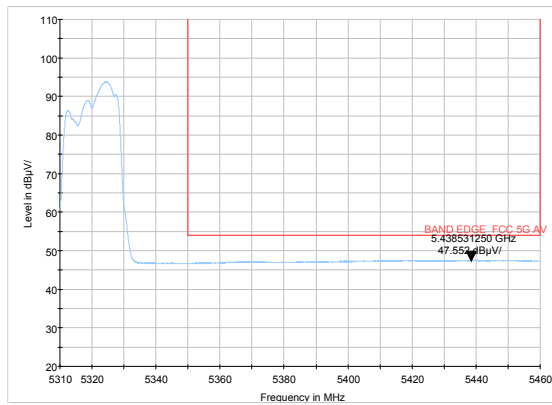
802.11a-Channel 64: Peak



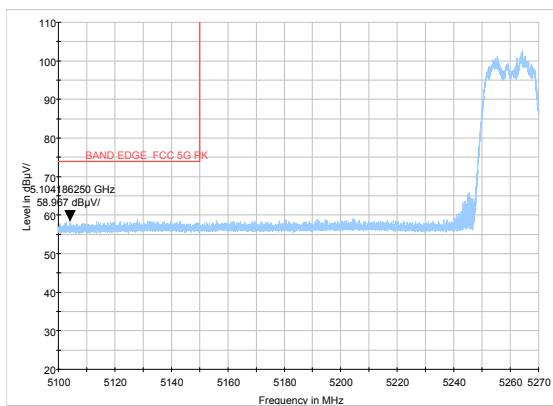
802.11a-Channel 52: Average



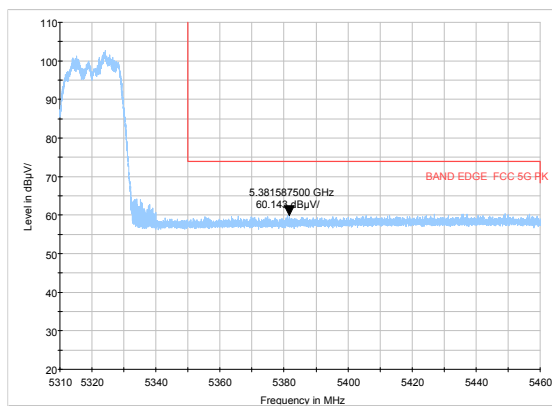
802.11a-Channel 64: Average



802.11n HT20-Channel 52: Peak

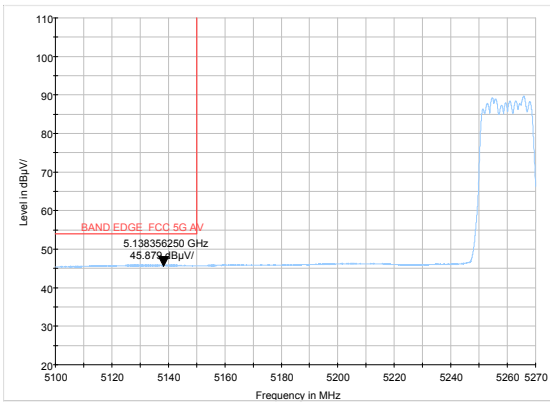


802.11n HT20-Channel 64: Peak

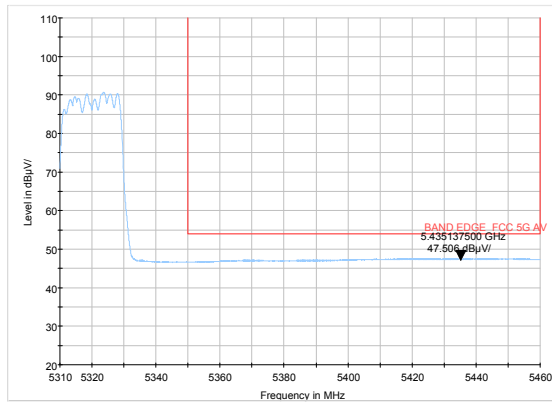




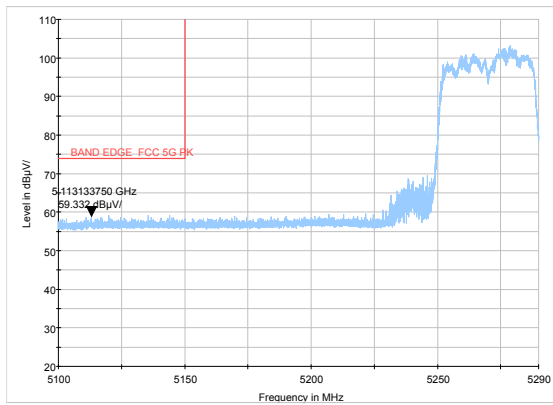
802.11n HT20-Channel 52: Average



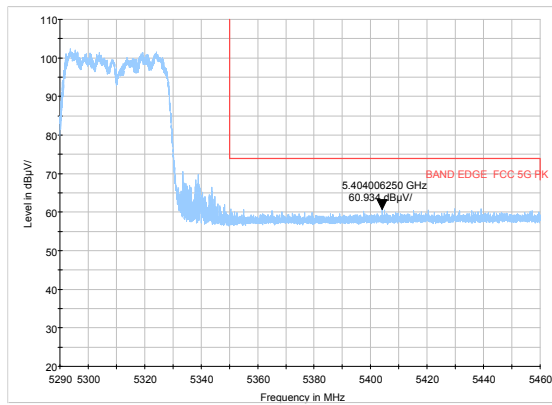
802.11n HT20-Channel 64: Average



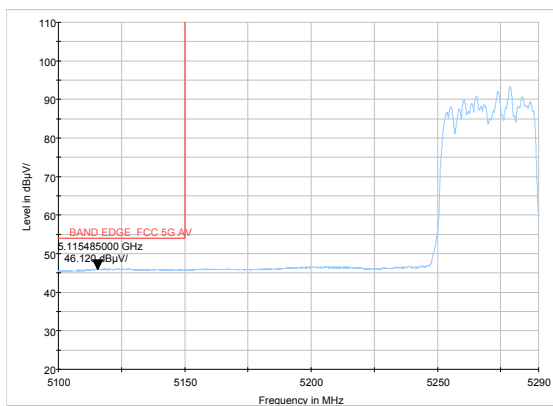
802.11n HT40-Channel 54: Peak



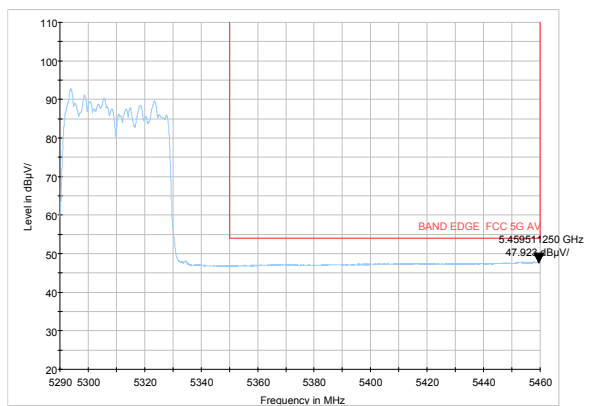
802.11n HT40-Channel 62: Peak



802.11n HT40-Channel 54: Average



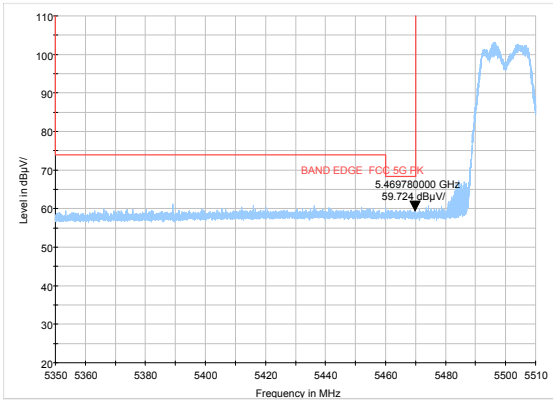
802.11n HT40-Channel 62: Average



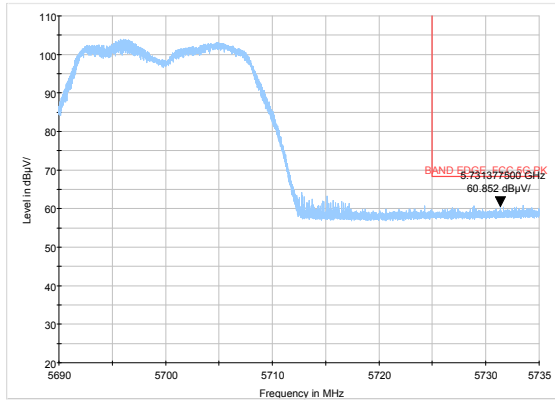


U-NII-2C

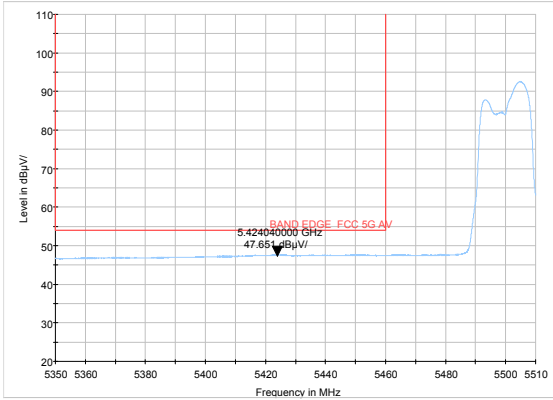
802.11a-Channel 100: Peak



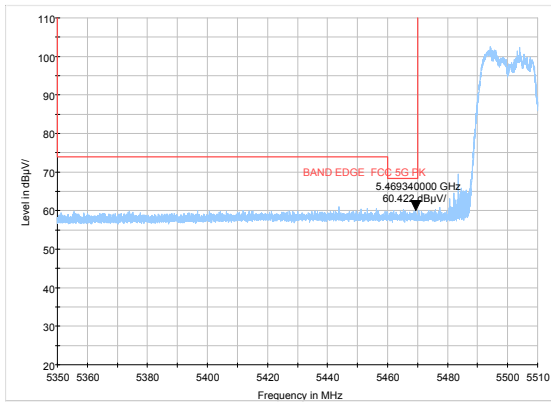
802.11a-Channel 140: Peak



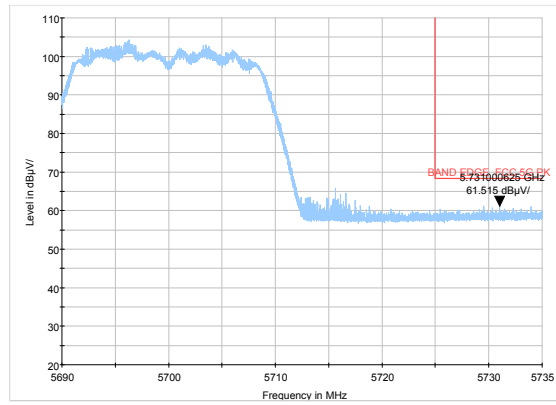
802.11a-Channel 100: Average



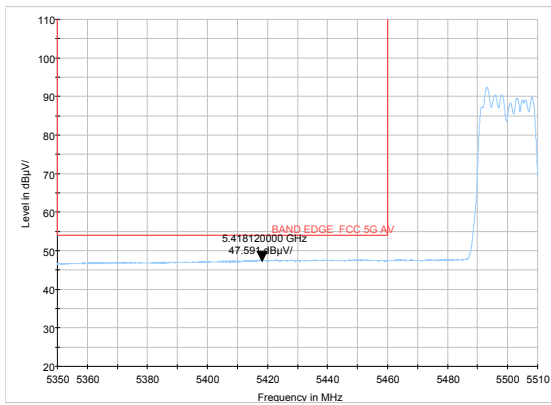
802.11n HT20-Channel 100: Peak



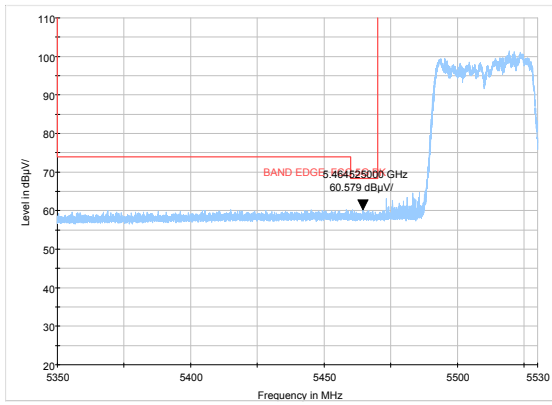
802.11n HT20-Channel 140: Peak



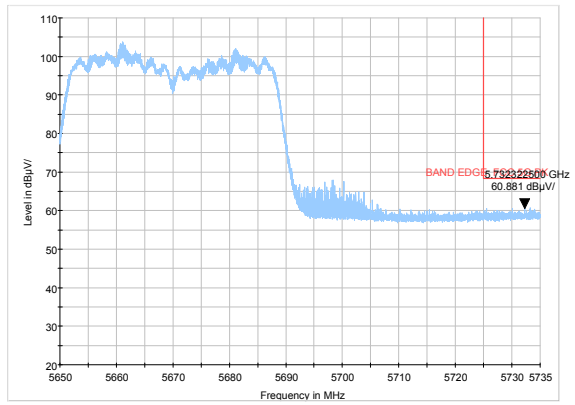
802.11n HT20-Channel 100: Average



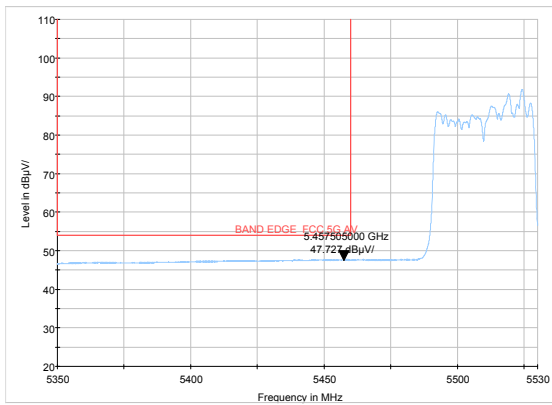
802.11n HT40-Channel 102: Peak



802.11n HT40-Channel 134: Peak



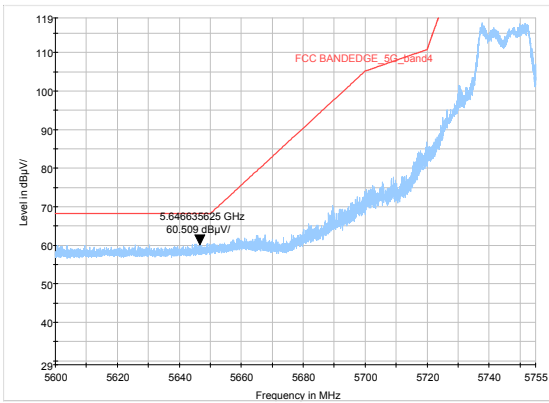
802.11n HT40-Channel 102: Average



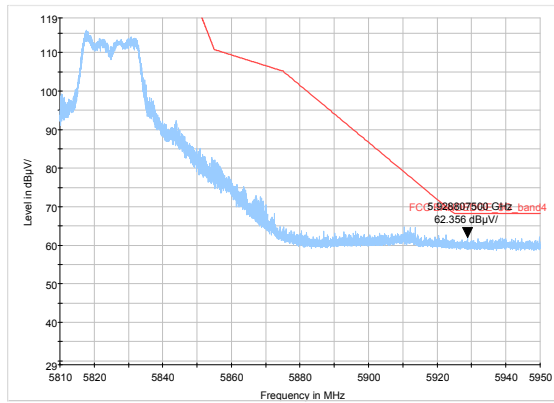


U-NII-3

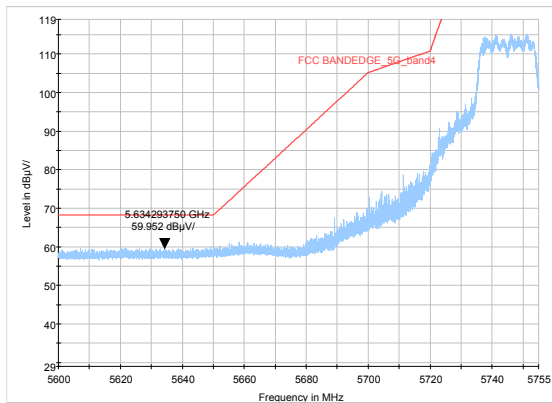
802.11a-Channel 149: Peak



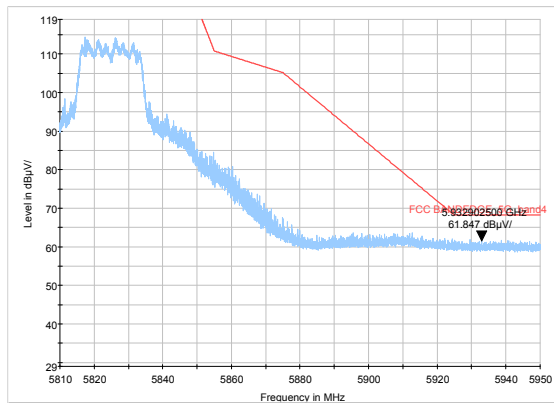
802.11a-Channel 165: Peak



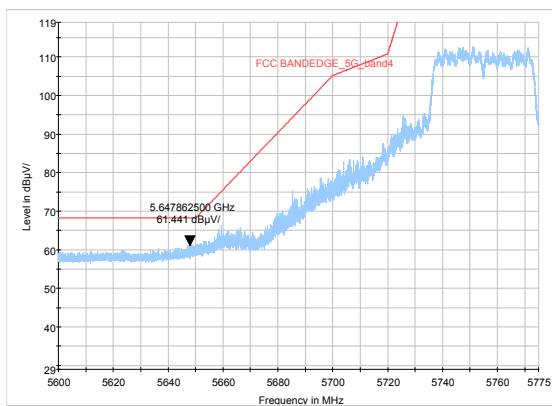
802.11n HT20-Channel 149: Peak



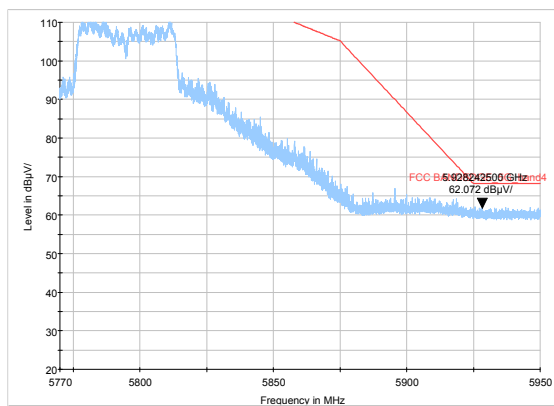
802.11n HT20-Channel 165: Peak



802.11n HT40-Channel 151: Peak



802.11n HT40-Channel 159: Peak



Result of RE

Test result

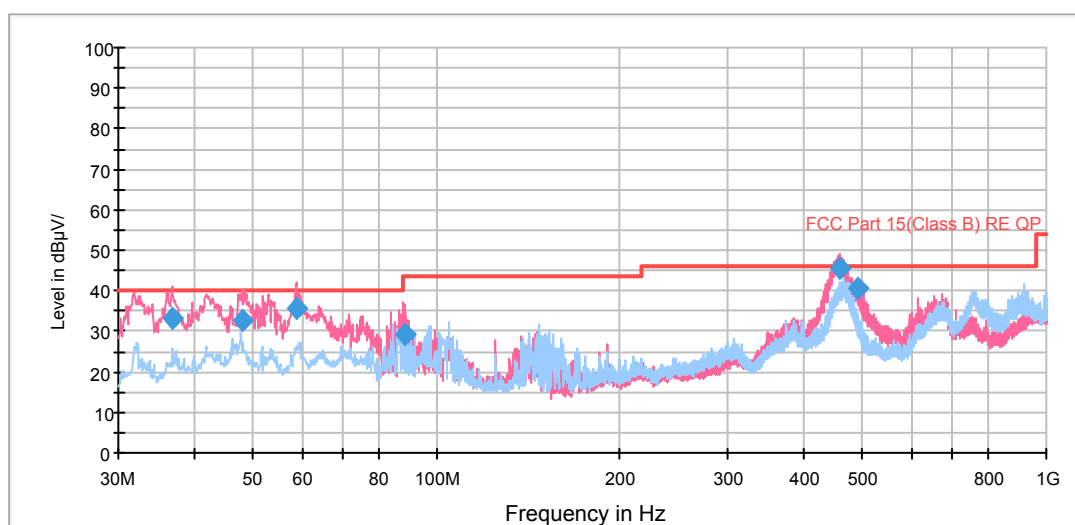
Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions more than 20 dB below the permissible value are not reported.

After the pre test, Antenna 1 was selected as the worst antenna.

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 802.11a (HT40), Channel 110 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Continuous TX mode:

RE 30M-1GHz QP



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Reading value (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
36.737078	33.3	42.0	100.0	V	277.0	-8.7	6.7	40.0
47.985138	32.6	40.7	207.0	V	57.0	-8.1	7.4	40.0
58.883091	35.7	47.0	100.0	V	175.0	-11.3	4.3	40.0
88.341394	29.0	43.1	125.0	V	321.0	-14.1	14.5	43.5
457.028250	45.7	56.2	120.0	V	6.0	-10.5	0.3	46.0
492.174500	40.8	50.8	120.0	V	304.0	-10.0	5.2	46.0

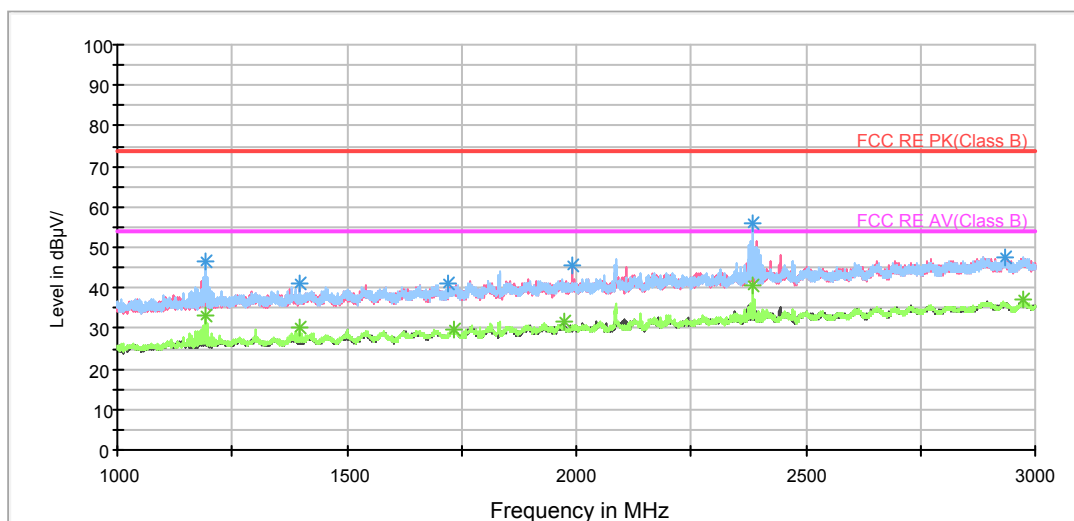
Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

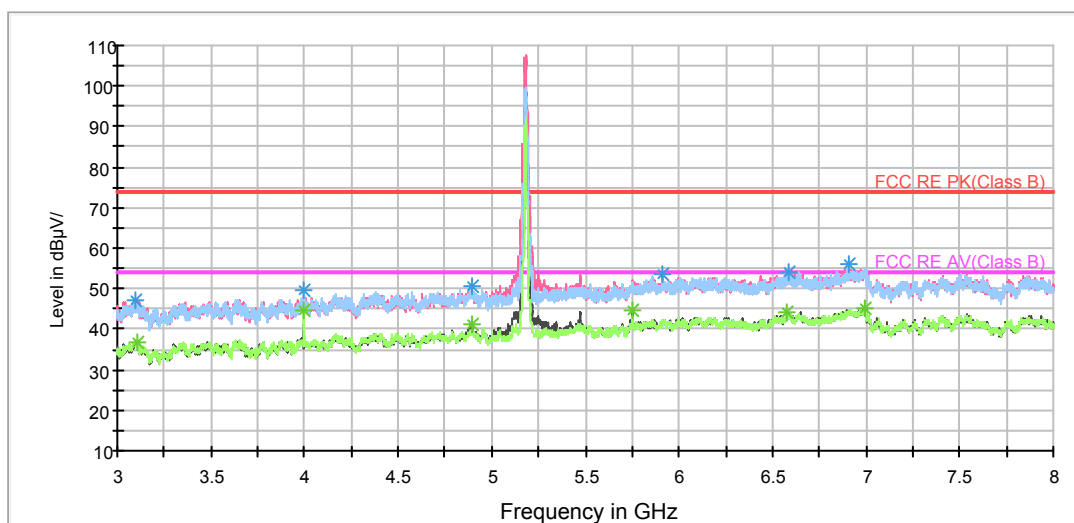
802.11a CH36

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

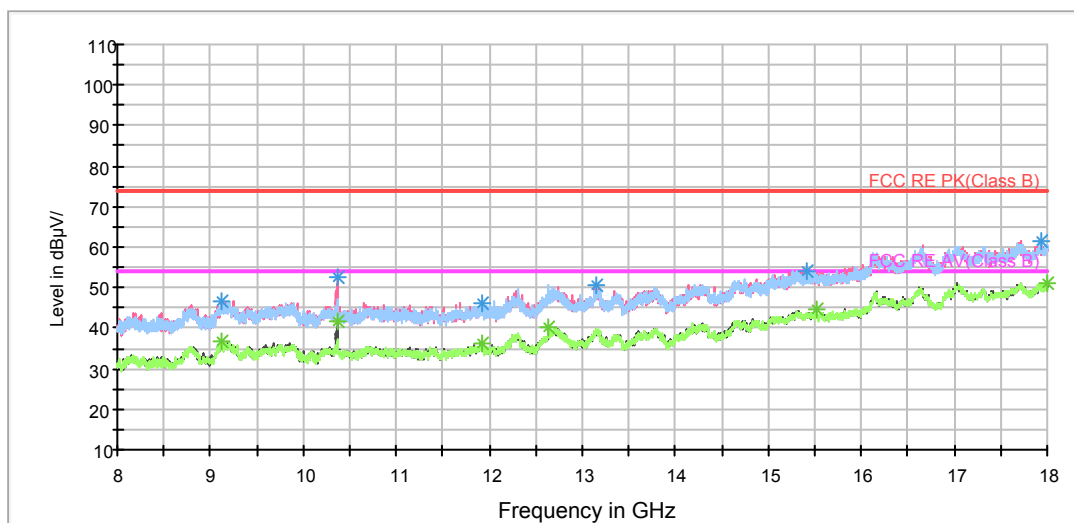
RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3099.375000	46.9	200.0	V	0.0	39.7	7.2	27.1	74
4000.000000	49.6	200.0	H	28.0	40.7	8.9	24.4	74
4892.500000	50.4	200.0	V	0.0	38.5	11.9	23.6	74
5911.875000	53.5	200.0	V	253.0	38.7	14.8	20.5	74
6590.625000	53.9	200.0	V	203.0	38.3	15.6	20.1	74
6906.875000	55.8	200.0	H	47.0	39.5	16.3	18.2	74

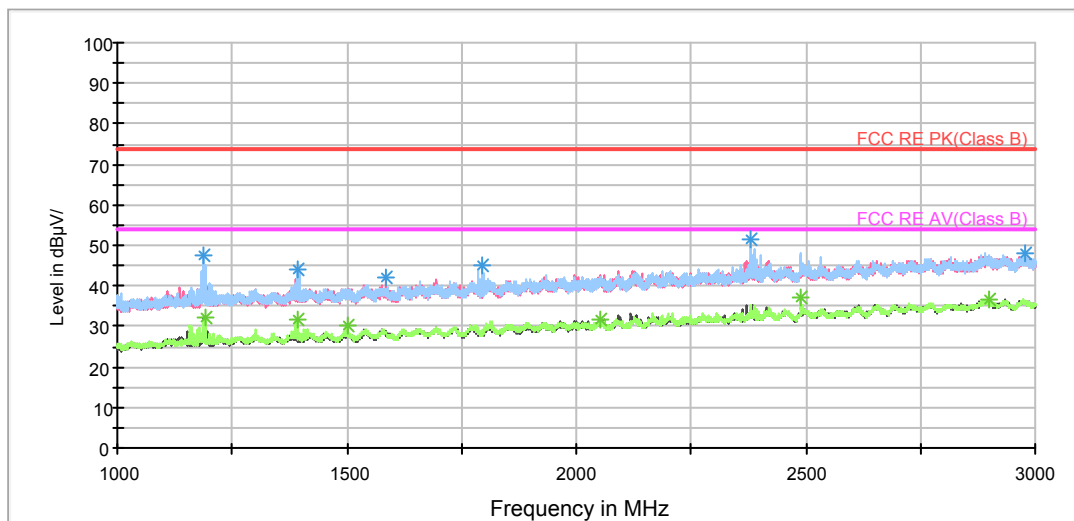
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3105.000000	36.9	200.0	H	86.0	29.7	7.2	17.1	54
4000.000000	44.8	200.0	H	28.0	35.9	8.9	9.2	54
4892.500000	41.2	200.0	V	0.0	29.3	11.9	12.8	54
5755.625000	44.8	200.0	V	82.0	31.2	13.6	9.2	54
6581.250000	44.0	200.0	H	173.0	28.5	15.5	10.0	54
6990.625000	45.0	200.0	V	0.0	28.5	16.5	9.0	54

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

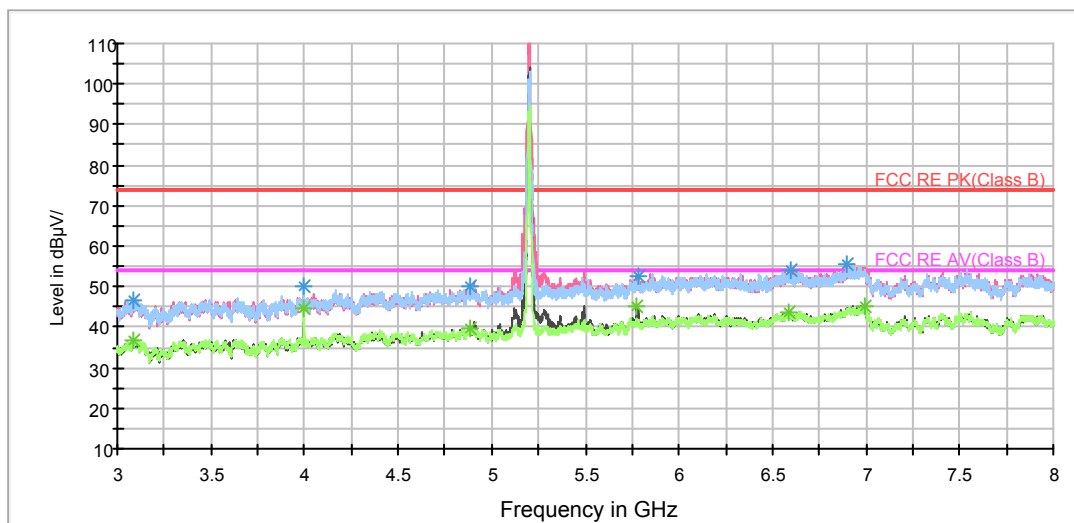
802.11a CH40

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

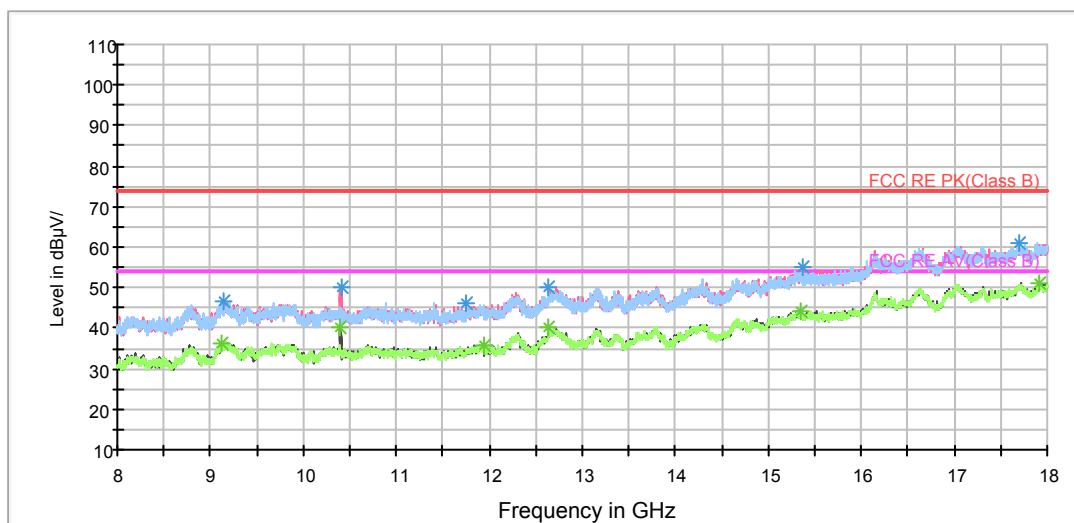
RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3090.000000	46.8	200.0	V	0.0	39.7	7.1	27.2	74
4000.000000	50.0	200.0	H	15.0	41.1	8.9	24.0	74
4881.875000	49.9	200.0	V	284.0	38.1	11.8	24.1	74
5783.750000	52.8	200.0	V	353.0	38.8	14.0	21.2	74
6593.750000	53.8	200.0	H	5.0	38.2	15.6	20.2	74
6893.125000	55.5	200.0	V	314.0	39.3	16.2	18.5	74

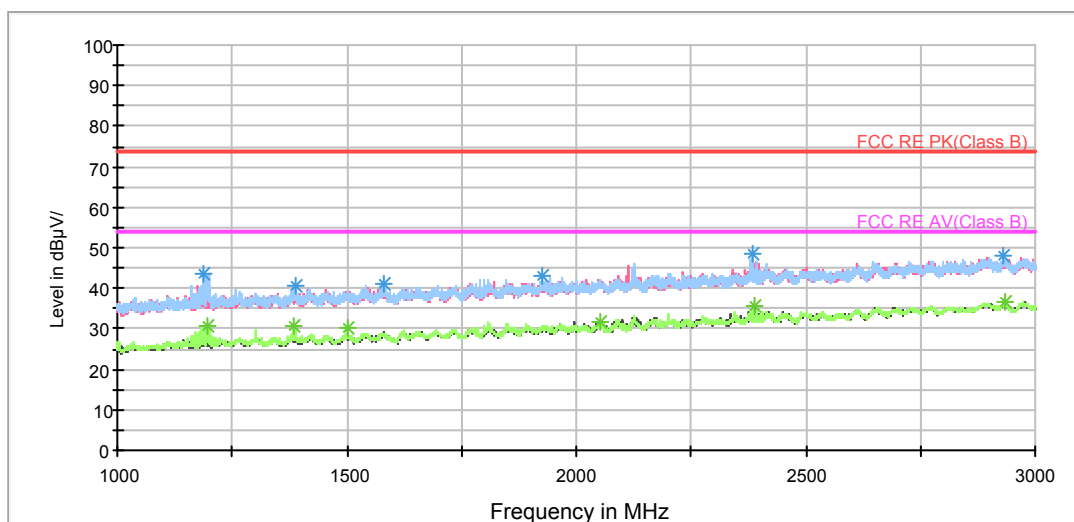
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3084.375000	36.8	200.0	V	147.0	29.7	7.1	17.2	54
4000.000000	44.7	200.0	H	15.0	35.8	8.9	9.3	54
4887.500000	39.8	200.0	V	76.0	27.9	11.9	14.2	54
5777.500000	45.0	200.0	V	76.0	31.1	13.9	9.0	54
6584.375000	43.8	200.0	V	216.0	28.2	15.6	10.2	54
6995.000000	45.3	200.0	V	107.0	28.8	16.5	8.7	54

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

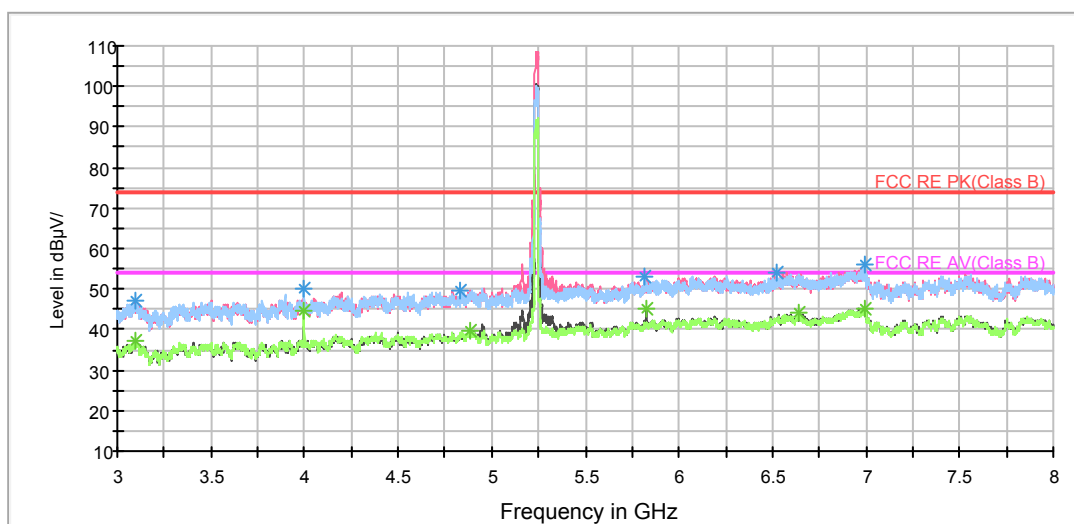
802.11a CH48

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

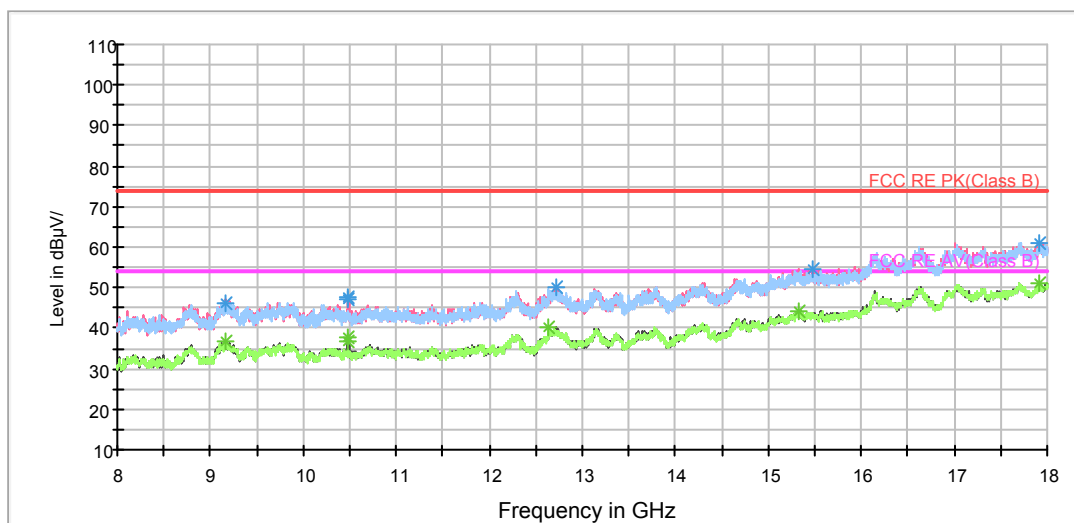
RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3100.000000	47.2	200.0	V	238.0	40.0	7.2	26.8	74
3999.375000	49.9	200.0	H	11.0	41.0	8.9	24.1	74
4830.000000	49.8	200.0	H	132.0	38.4	11.4	24.2	74
5813.750000	53.1	200.0	H	60.0	38.7	14.4	20.9	74
6526.875000	54.2	200.0	H	30.0	38.7	15.5	19.8	74
6996.875000	56.0	200.0	V	189.0	39.5	16.5	18.0	74

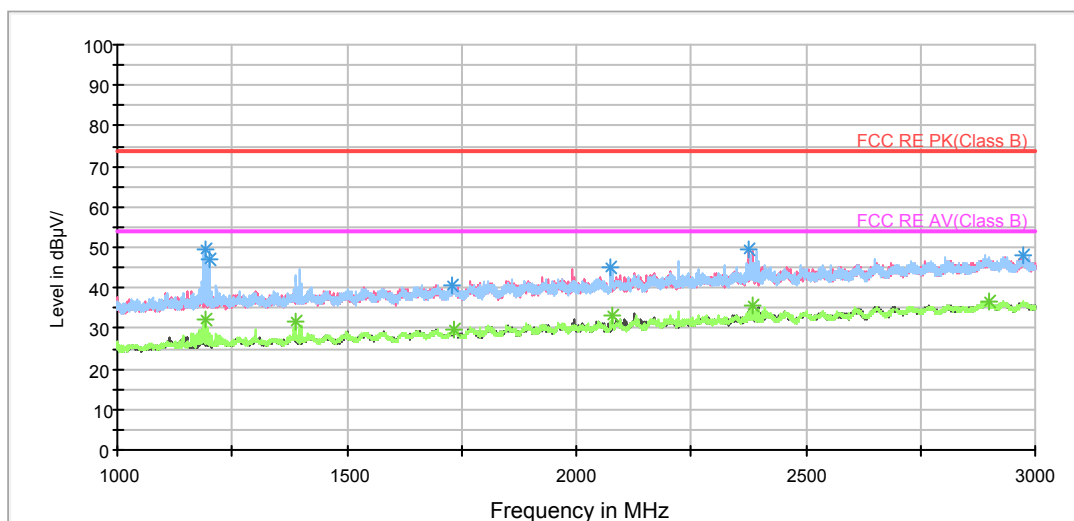
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3099.375000	37.1	200.0	H	132.0	29.9	7.2	16.9	54
4000.000000	44.8	200.0	H	30.0	35.9	8.9	9.2	54
4880.000000	39.9	200.0	V	306.0	28.1	11.8	14.1	54
5822.500000	45.2	200.0	V	23.0	30.7	14.5	8.8	54
6639.375000	43.9	200.0	H	132.0	28.4	15.5	10.1	54
6991.875000	45.3	200.0	V	99.0	28.8	16.5	8.7	54

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

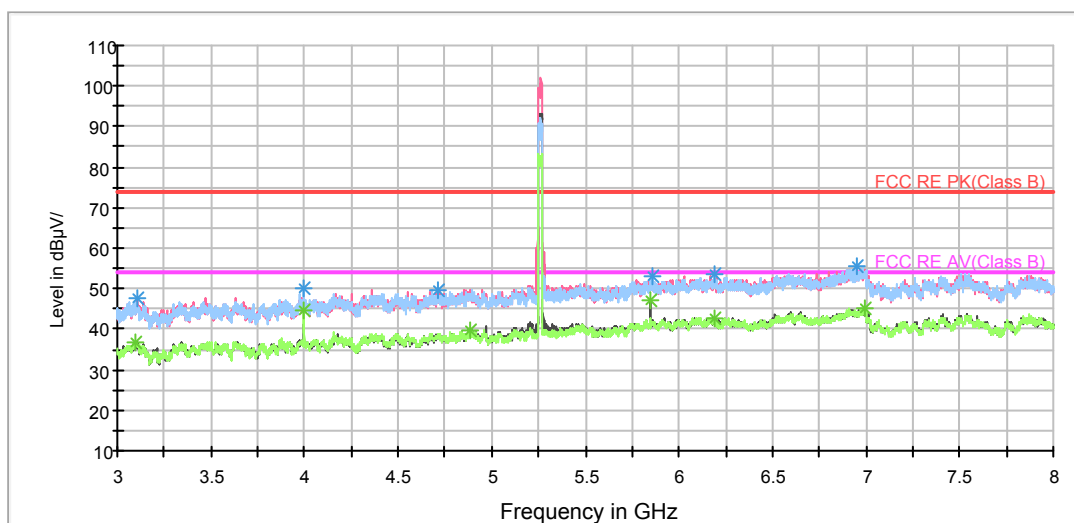
802.11a CH52

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV

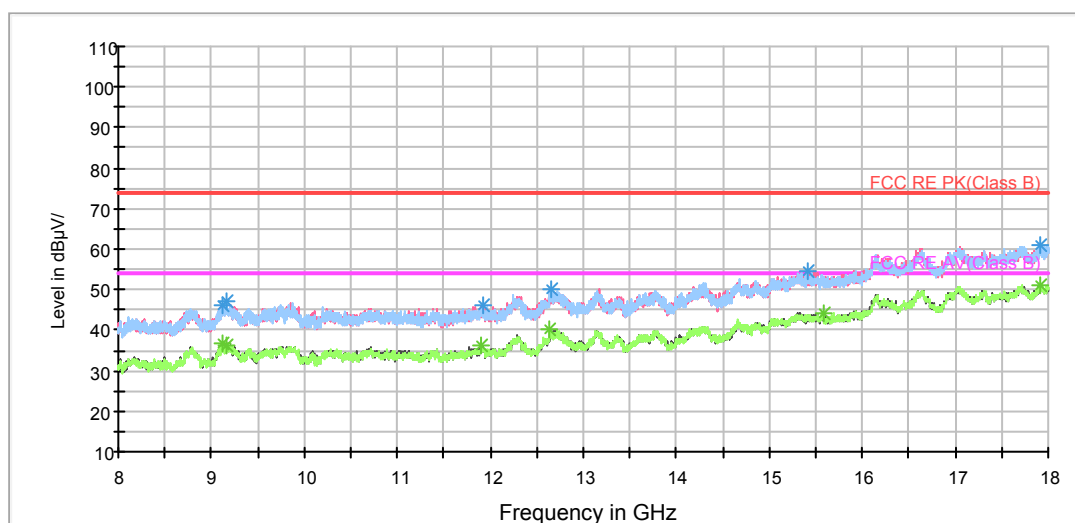


Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz



RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3108.750000	47.5	200.0	V	0.0	40.2	7.3	26.5	74
4000.000000	50.1	200.0	H	11.0	41.2	8.9	23.9	74
4711.250000	49.7	200.0	H	0.0	38.9	10.8	24.3	74
5863.125000	53.2	200.0	H	61.0	38.4	14.8	20.8	74
6188.750000	53.8	200.0	H	114.0	38.4	15.4	20.2	74
6946.875000	55.7	200.0	V	0.0	39.5	16.2	18.3	74

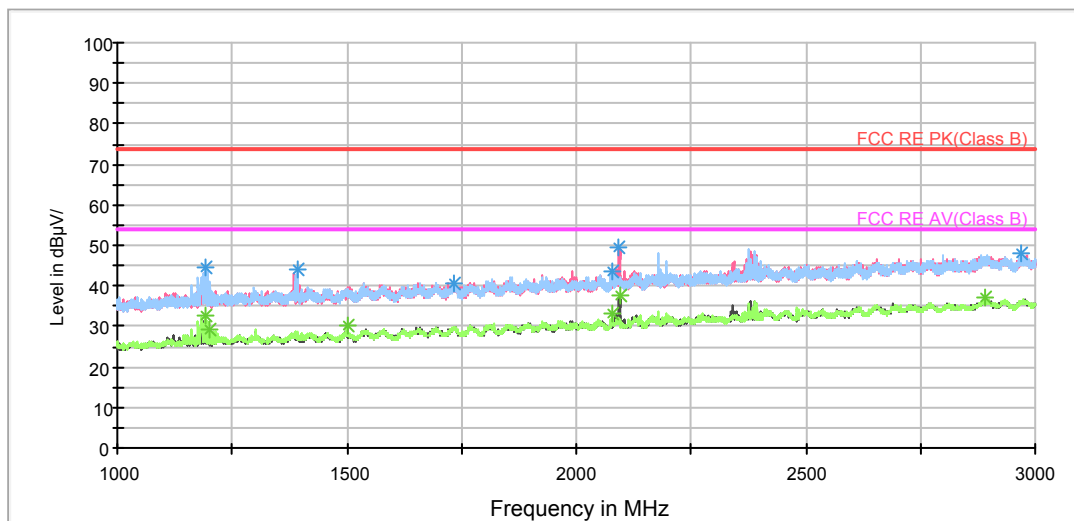
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3100.625000	36.8	200.0	H	81.0	29.6	7.2	17.2	54
4000.000000	44.7	200.0	H	11.0	35.8	8.9	9.3	54
4883.750000	39.6	200.0	V	188.0	27.7	11.9	14.4	54
5844.375000	47.3	200.0	V	23.0	32.7	14.6	6.7	54
6188.750000	42.9	200.0	V	138.0	27.5	15.4	11.1	54
6990.625000	45.2	200.0	V	88.0	28.7	16.5	8.8	54

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

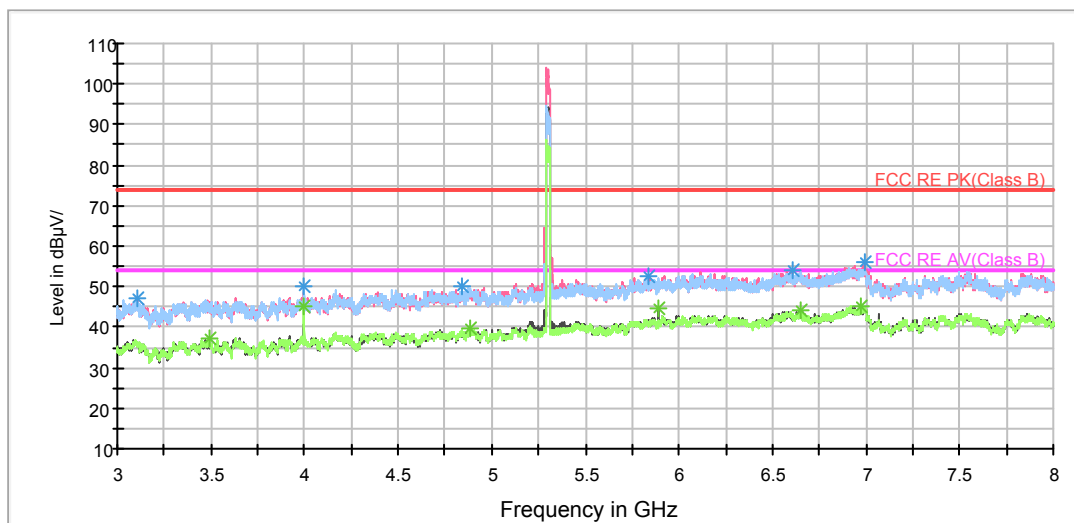
802.11a CH60

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

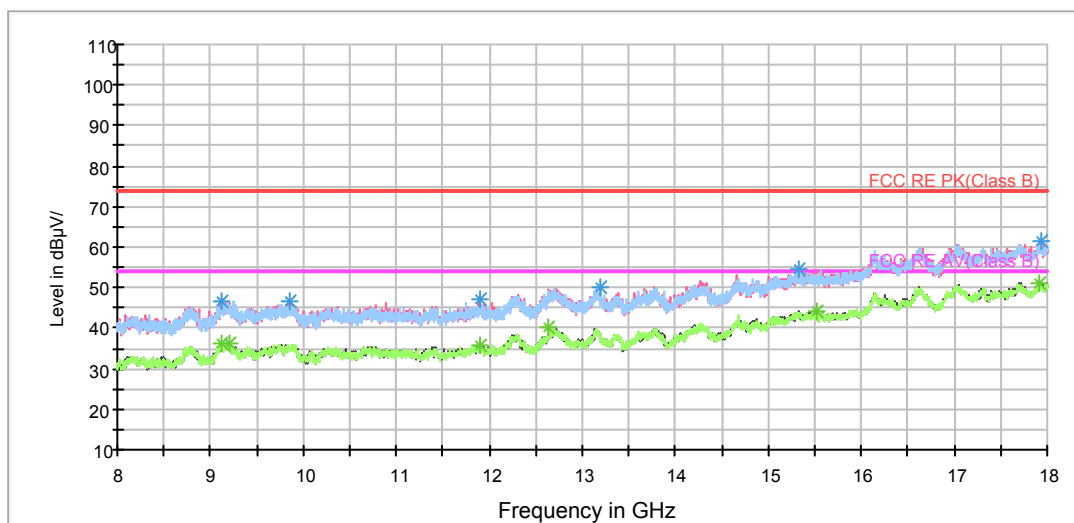
RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz

RE 3-18GHz PK+AV



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3102.500000	47.2	200.0	V	283.0	40.0	7.2	26.8	74
3999.375000	50.0	200.0	H	12.0	41.1	8.9	24.0	74
4837.500000	49.9	200.0	H	0.0	38.4	11.5	24.1	74
5835.000000	52.7	200.0	V	273.0	38.2	14.5	21.3	74
6603.125000	54.2	200.0	V	167.0	38.5	15.7	19.8	74
6993.750000	55.9	200.0	V	273.0	39.4	16.5	18.1	74

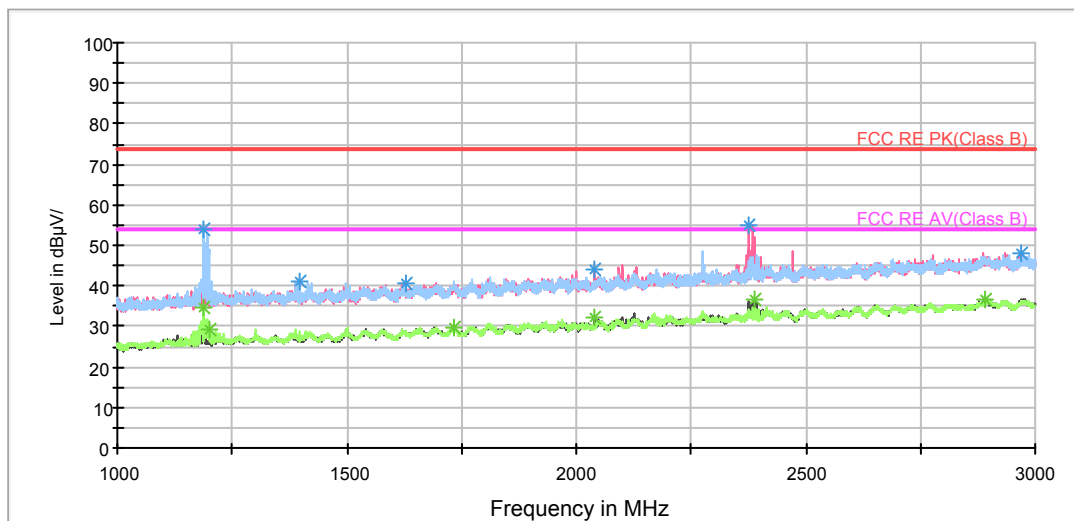
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3490.625000	37.1	200.0	H	74.0	29.2	7.9	16.9	54
4000.000000	45.0	200.0	H	2.0	36.1	8.9	9.0	54
4879.375000	39.7	200.0	V	186.0	27.9	11.8	14.3	54
5888.750000	44.5	200.0	V	22.0	29.6	14.9	9.5	54
6653.125000	43.9	200.0	H	23.0	28.4	15.5	10.1	54
6971.250000	45.1	200.0	V	116.0	28.8	16.3	8.9	54

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

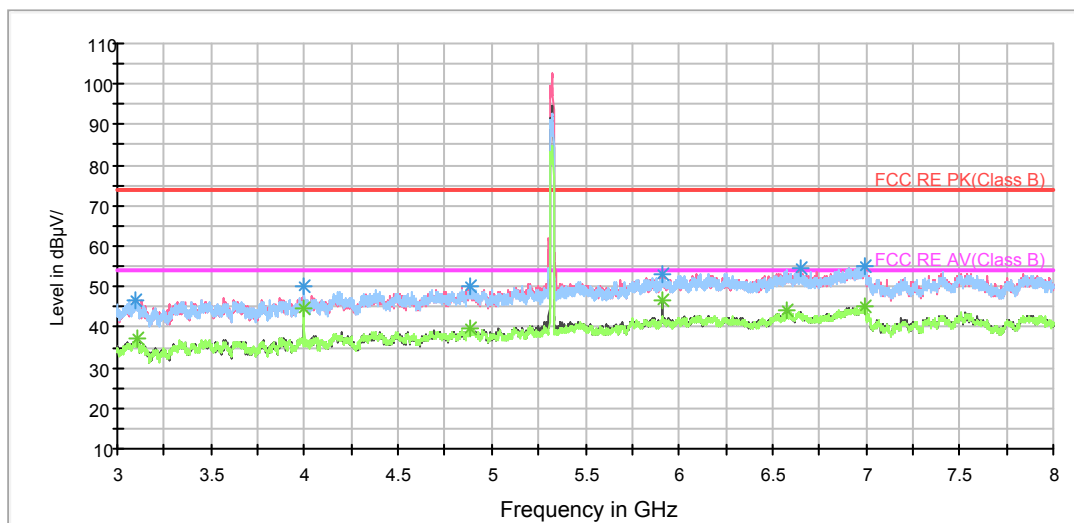
802.11a CH64

RE 1G-3GHz PK+AV



Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 3GHz to 8GHz