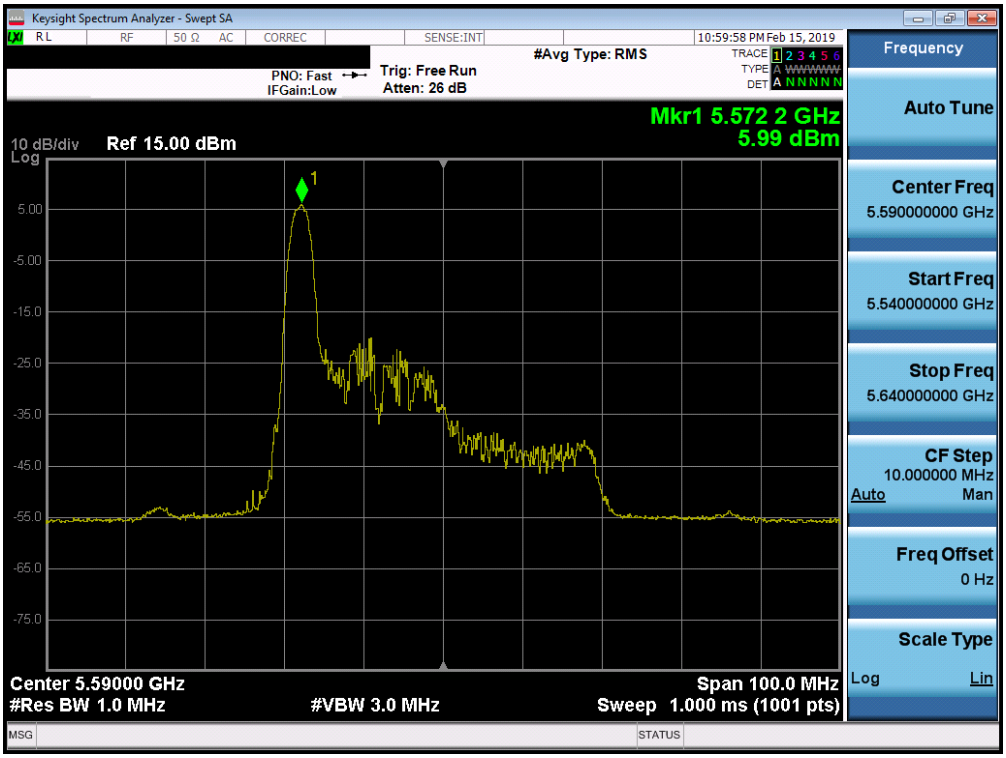
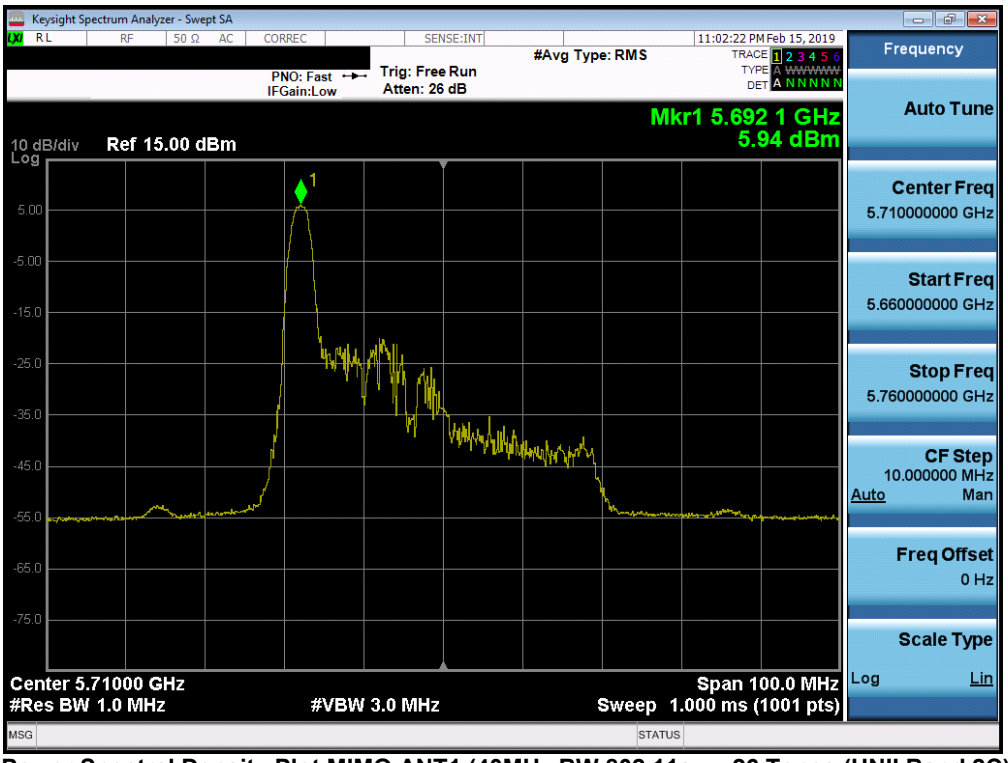


Plot 7-233. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)



Plot 7-234. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

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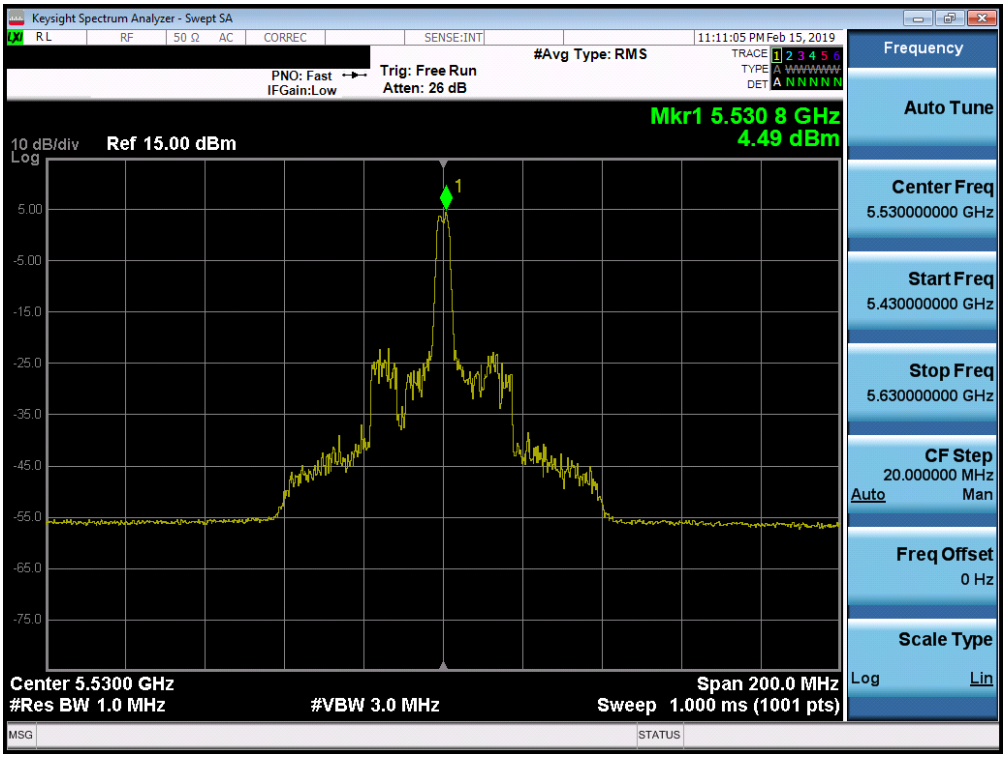
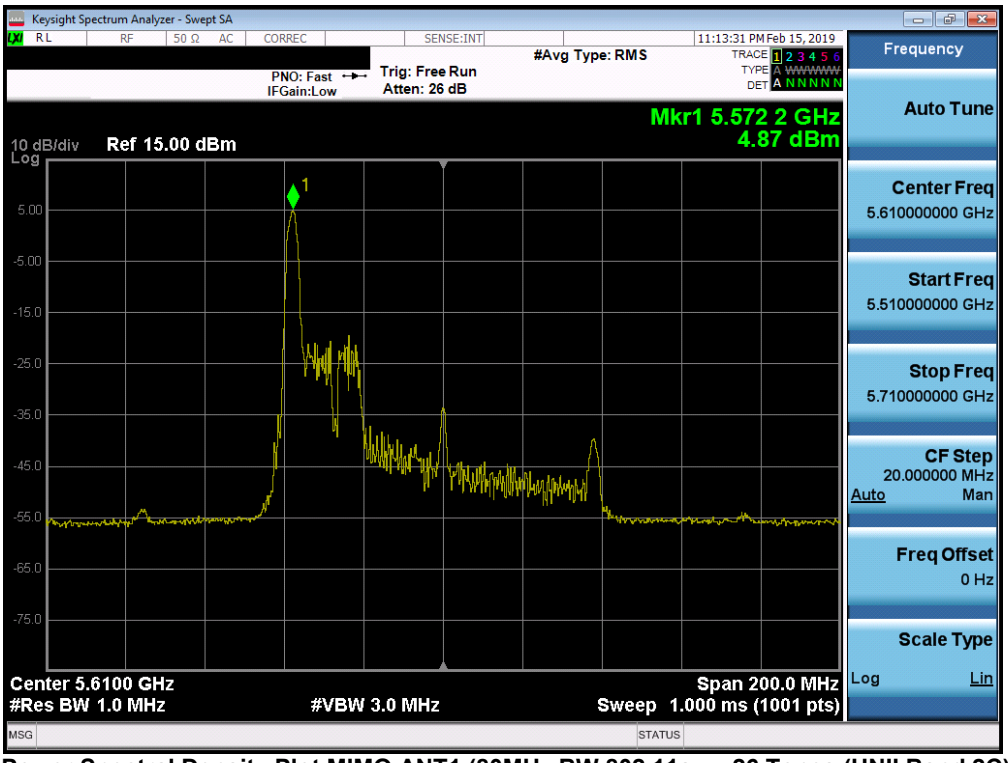


Plot 7-235. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)



Plot 7-236. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

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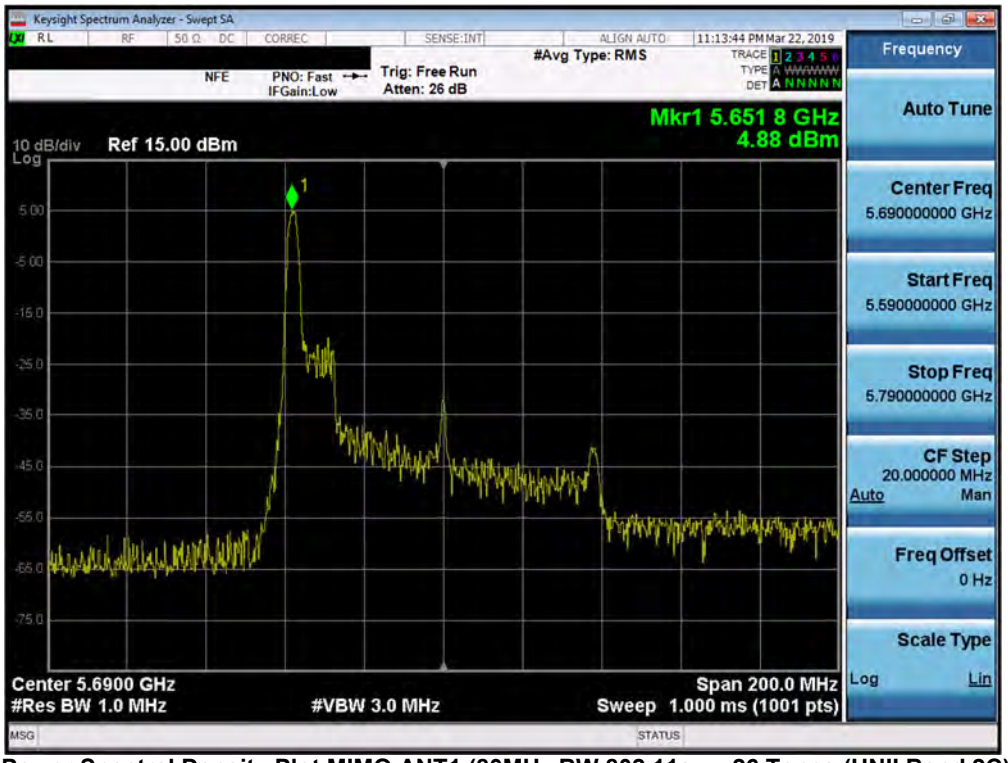
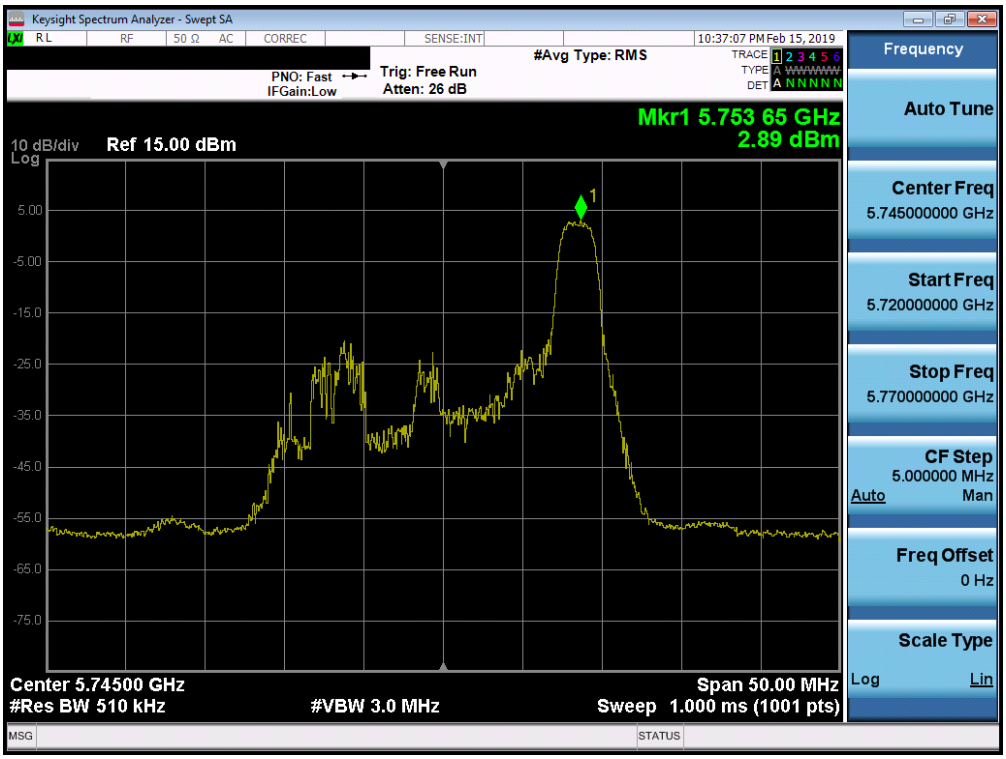


Plot 7-237. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)



Plot 7-238. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

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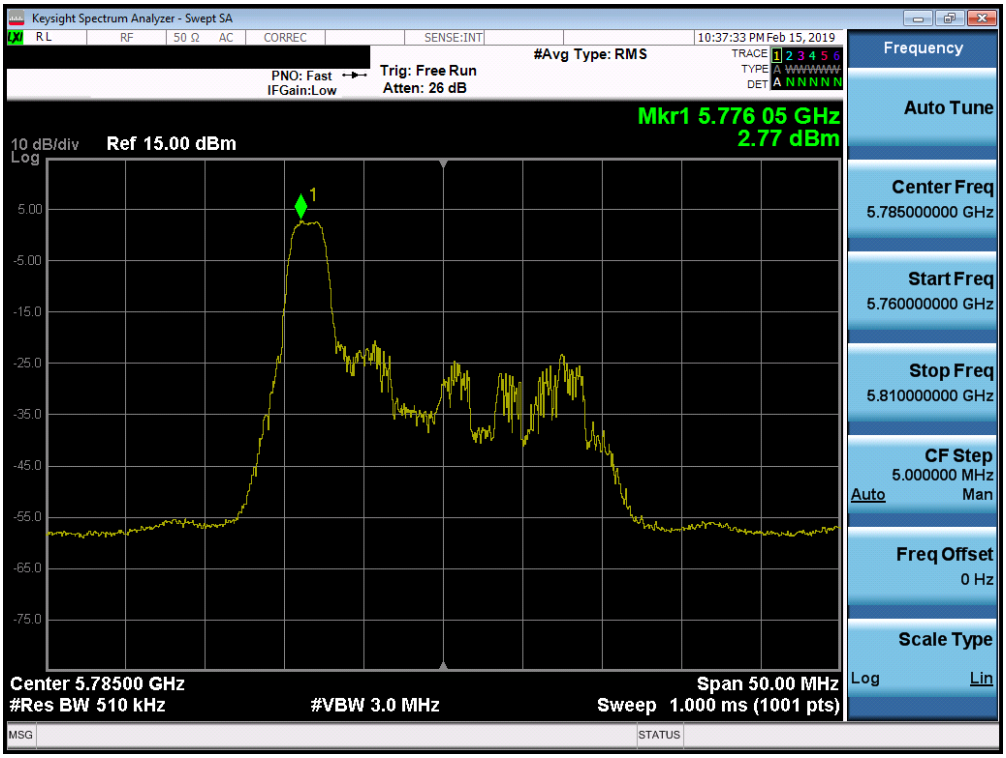
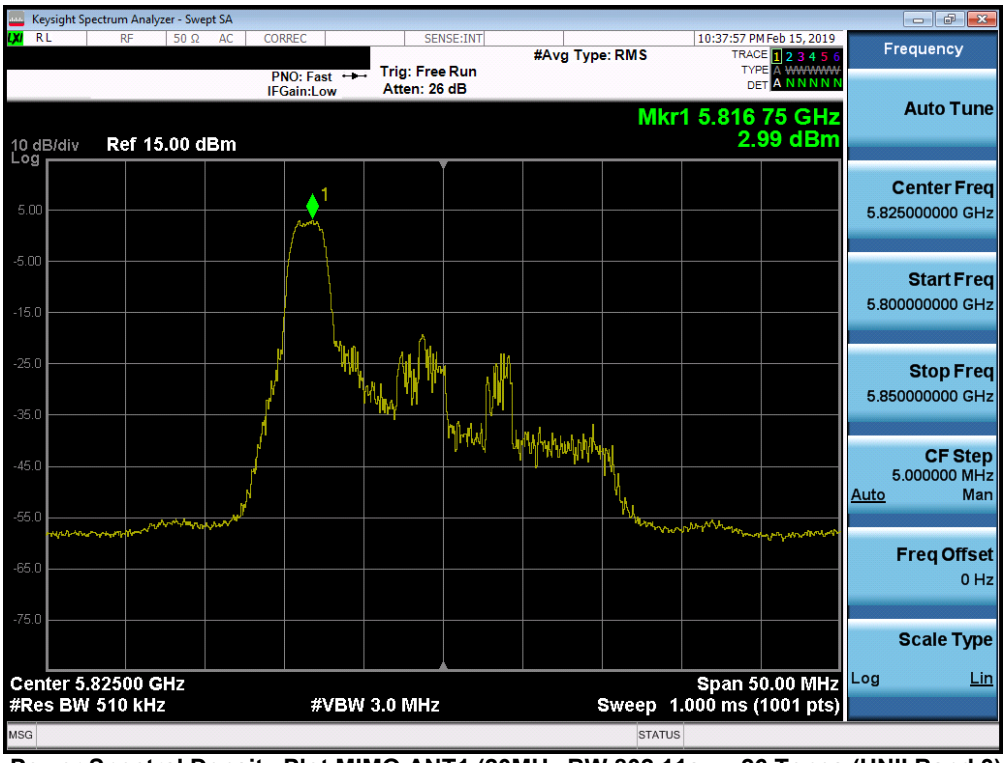


Plot 7-239. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)



Plot 7-240. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

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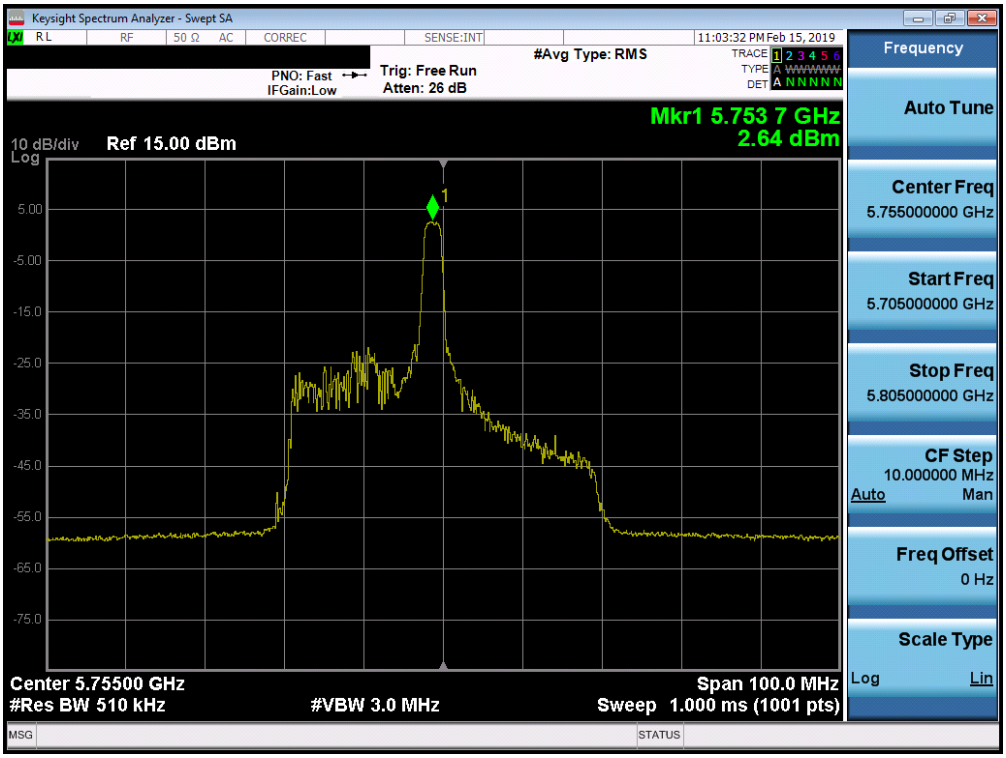
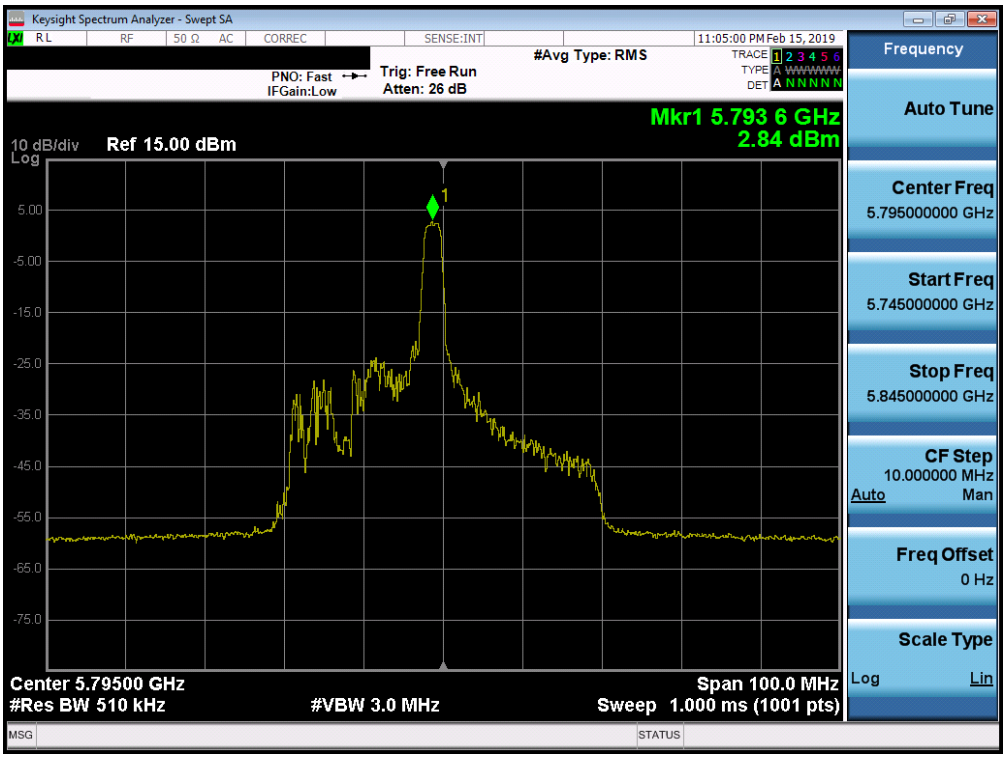


Plot 7-241. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)



Plot 7-242. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)

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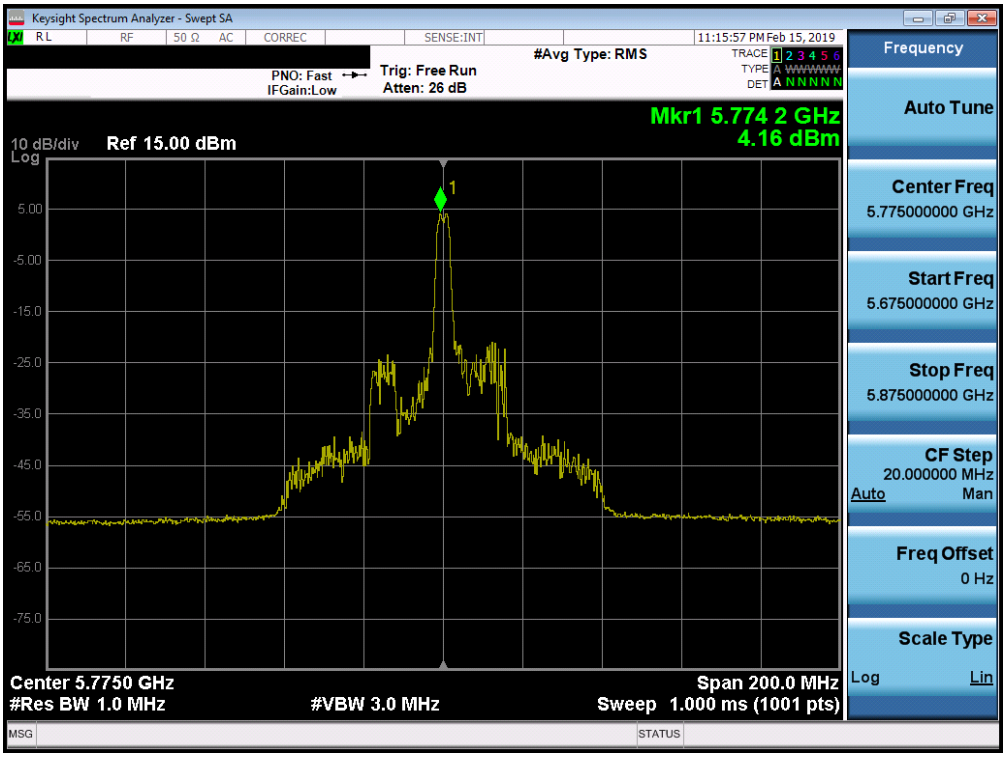

Plot 7-243. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

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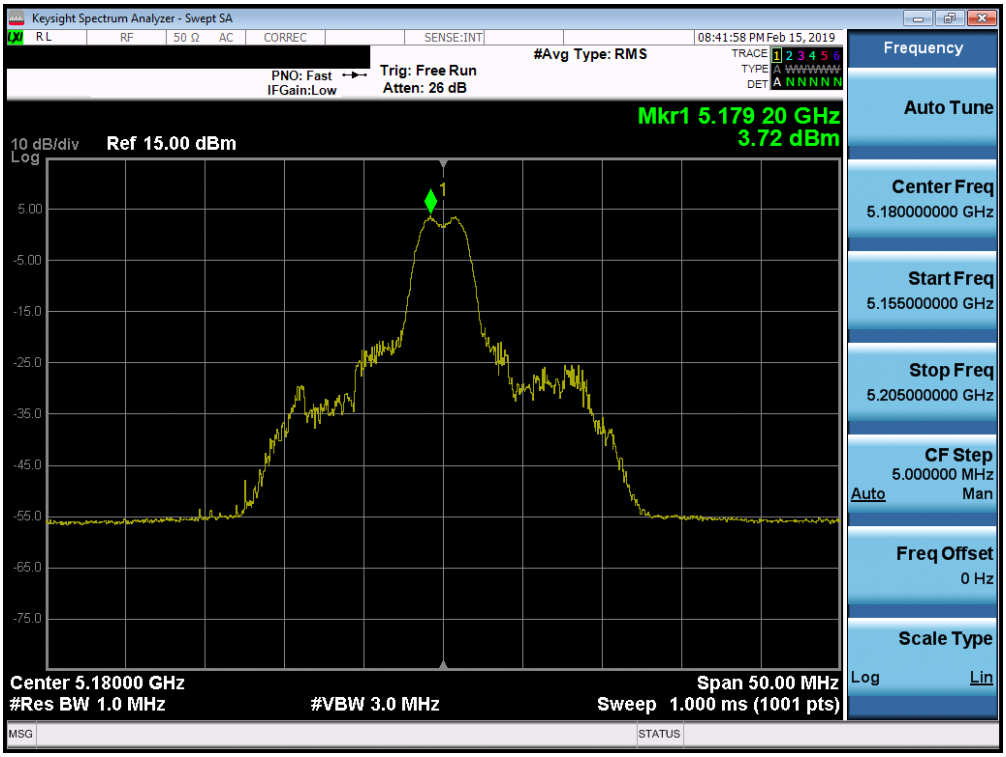
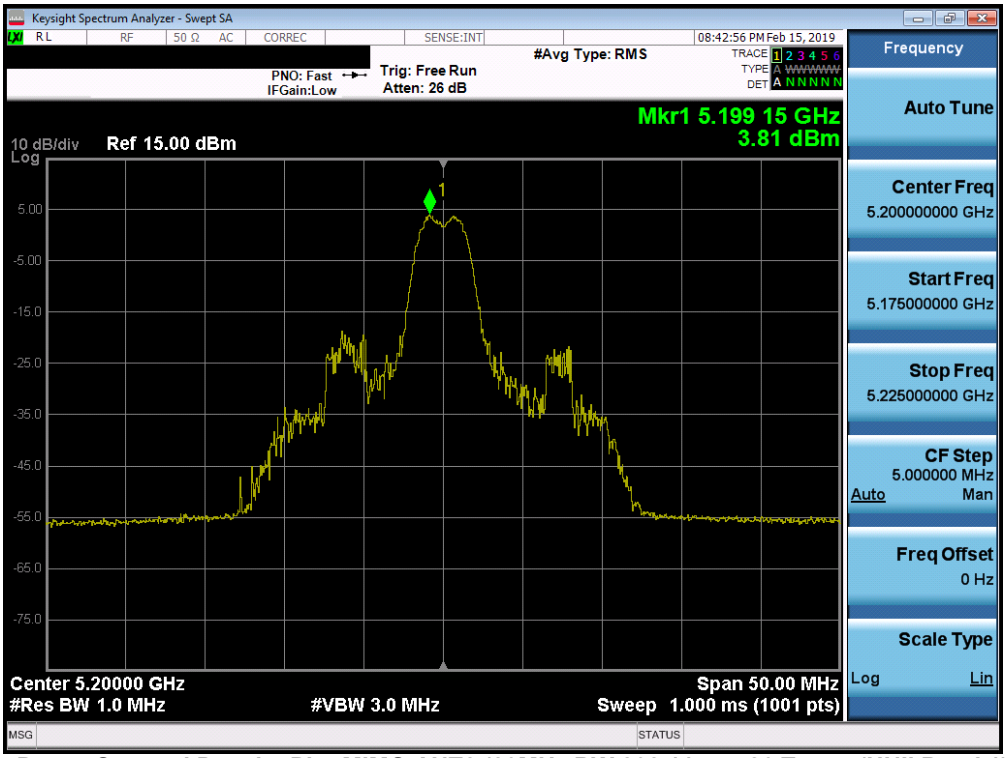
MIMO Antenna-2 Power Spectral Density Measurements (26 Tones)



Plot 7-244. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)



Plot 7-245. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

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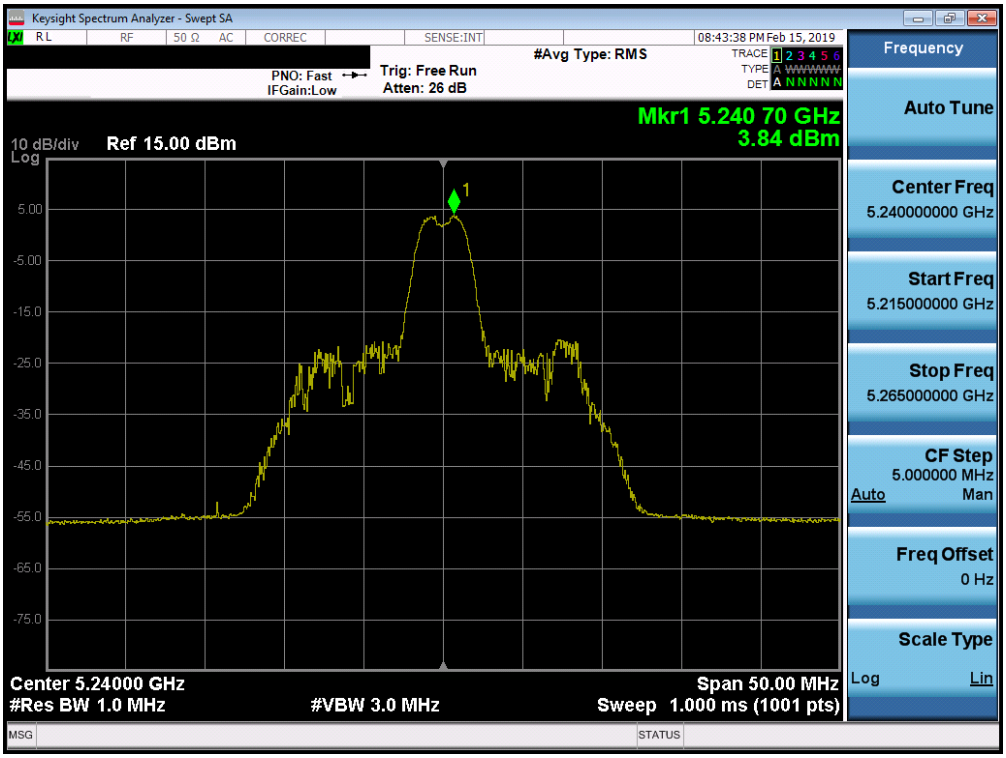
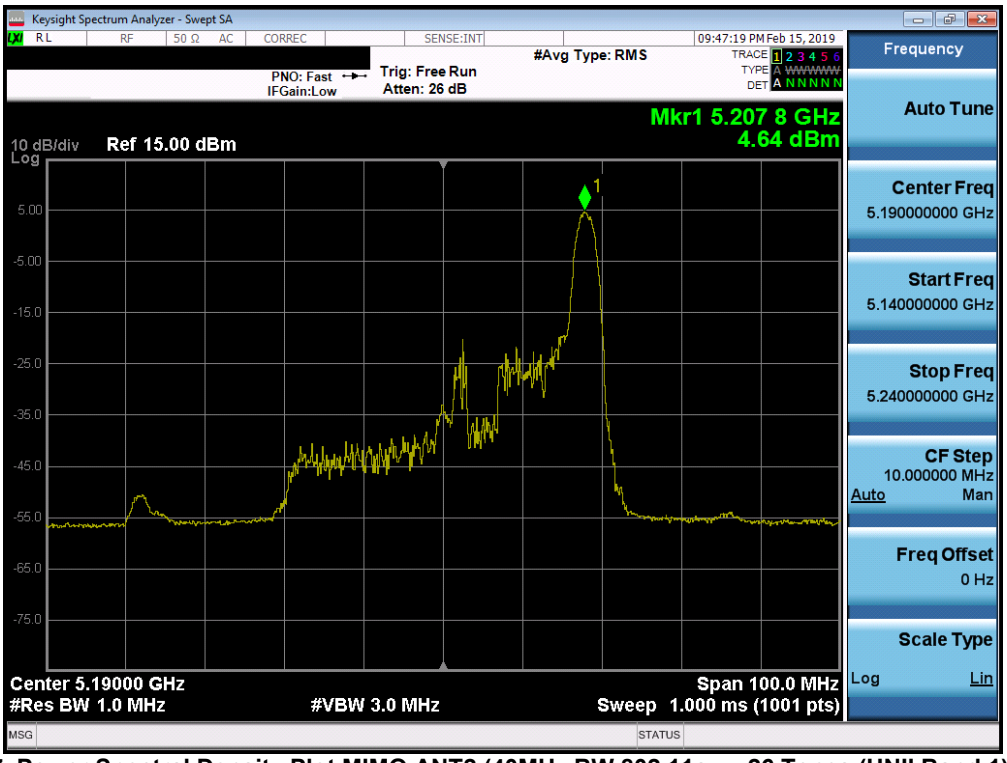


Plot 7-246. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)



Plot 7-247. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

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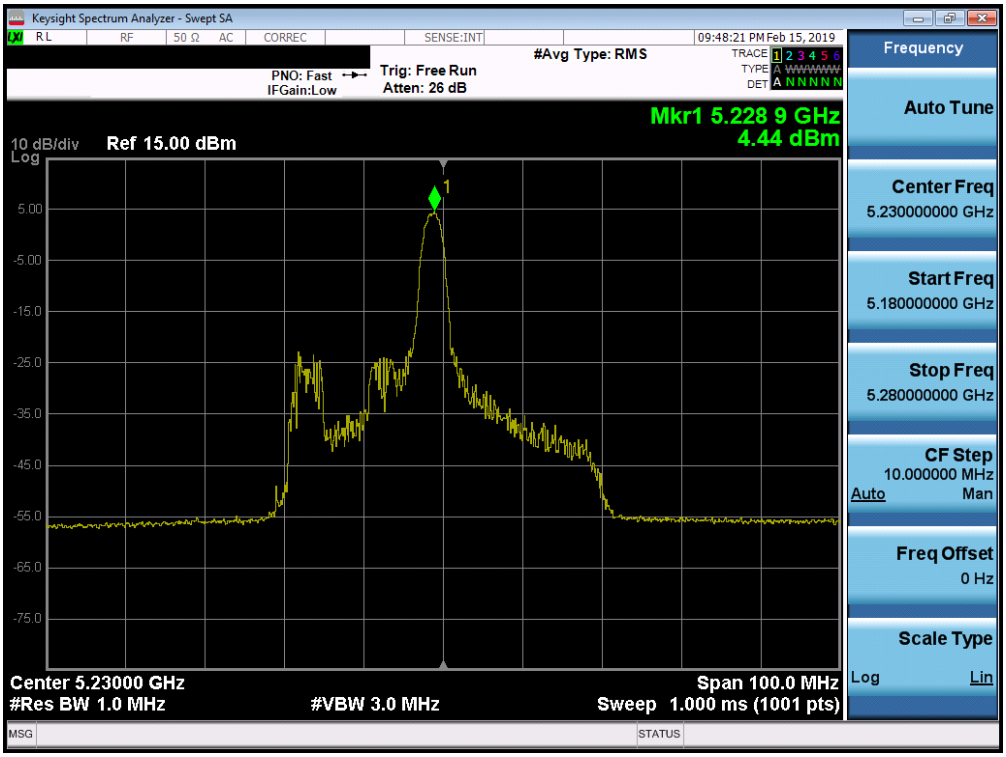
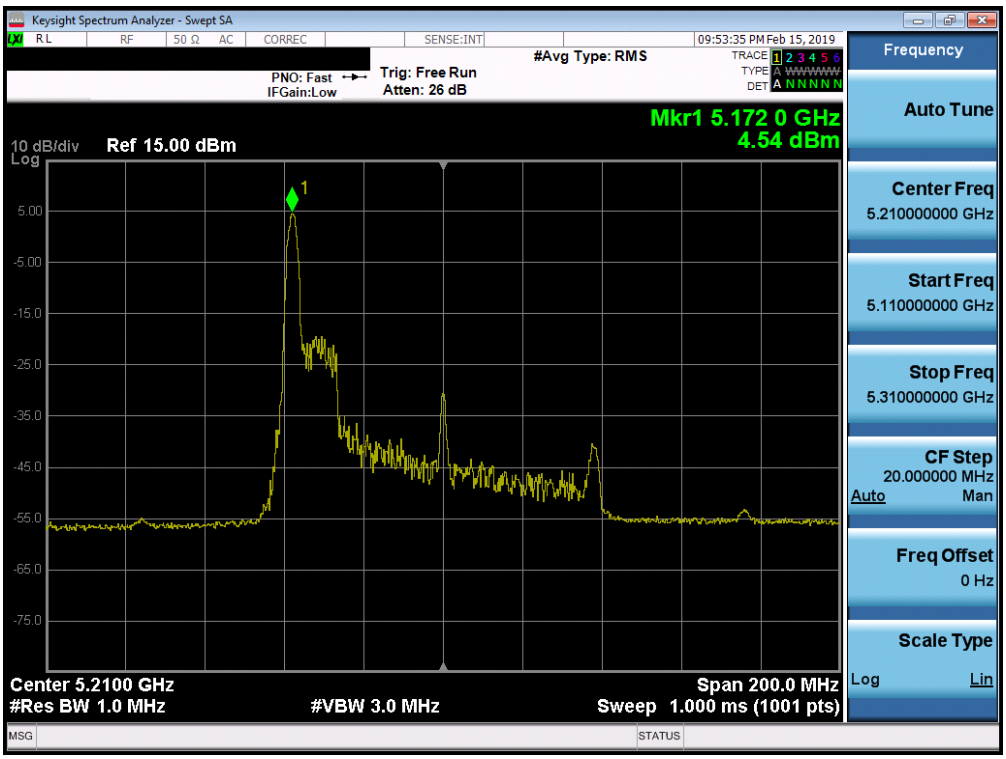


Plot 7-248. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)



Plot 7-249. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

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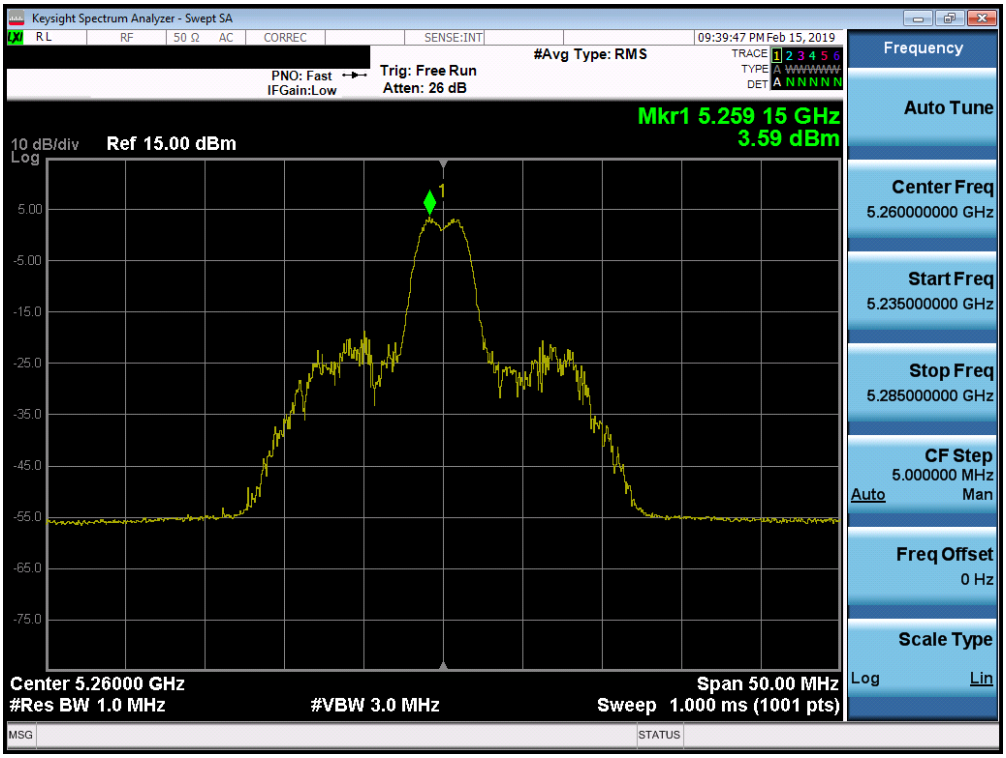
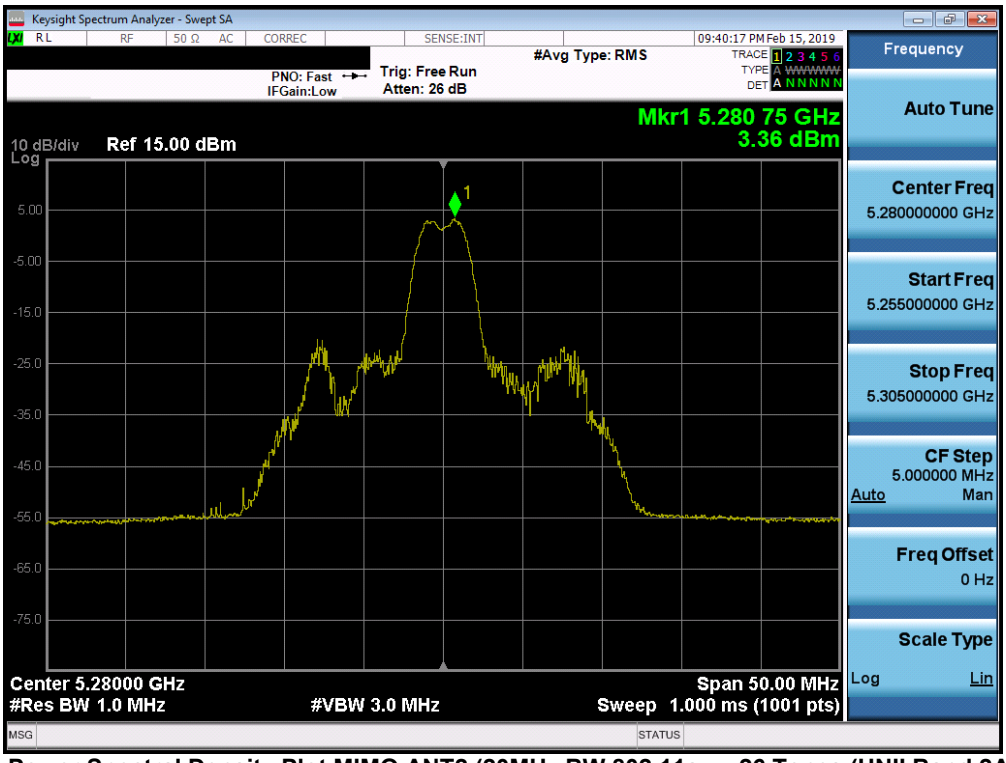


Plot 7-250. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)



Plot 7-251. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

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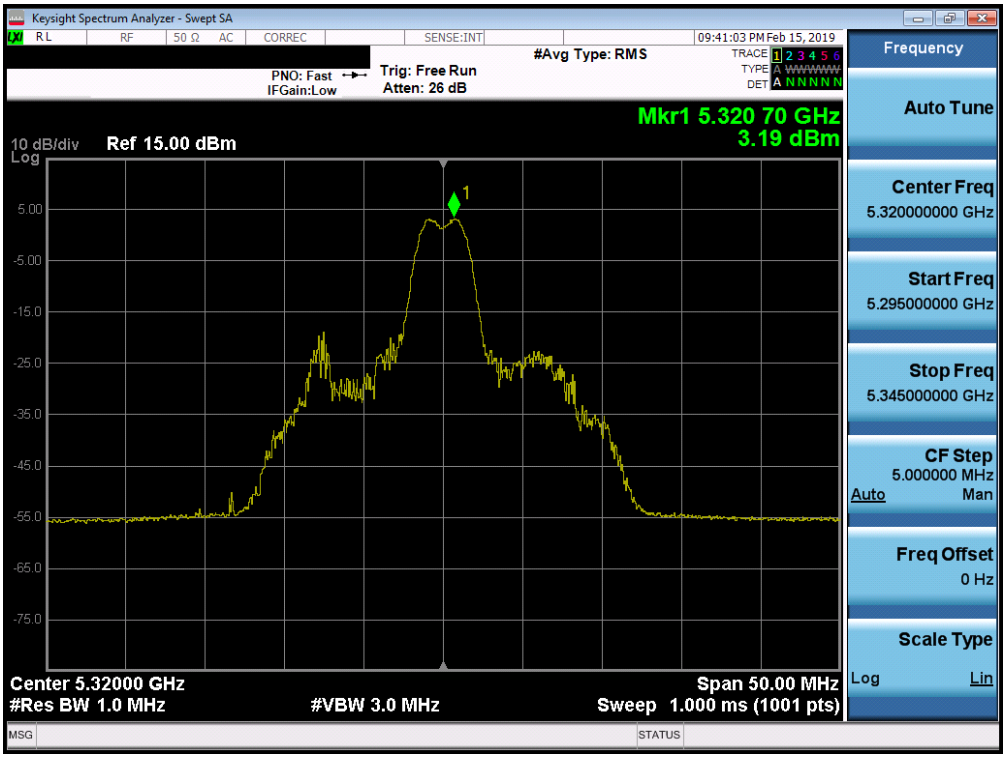

Plot 7-252. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

Plot 7-253. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

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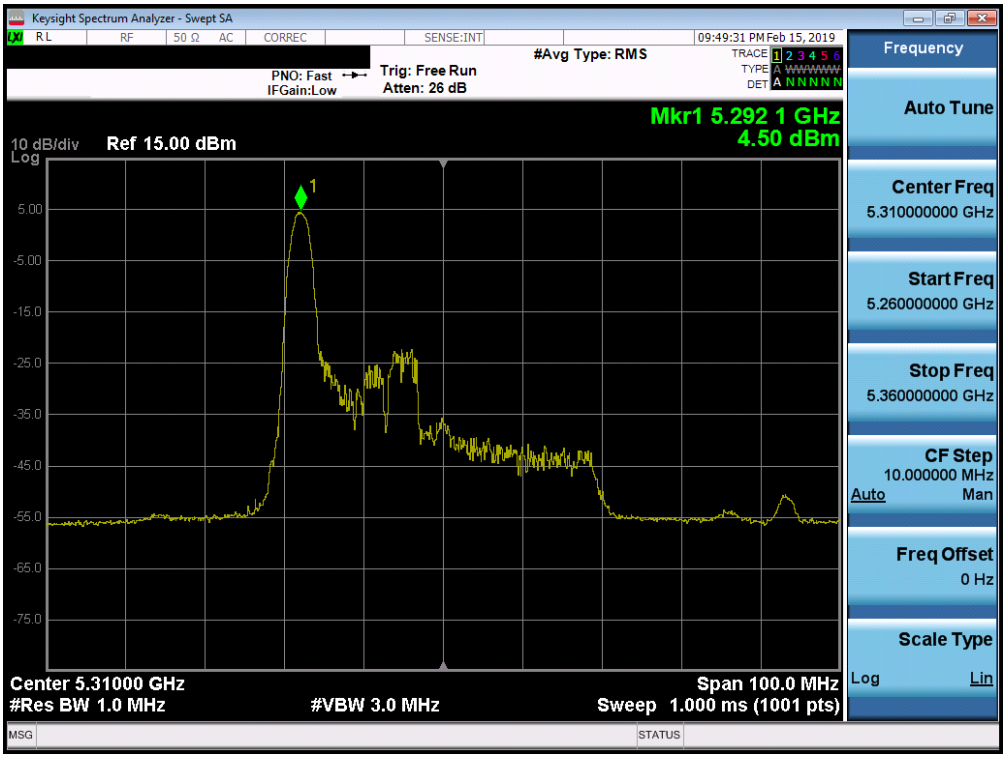
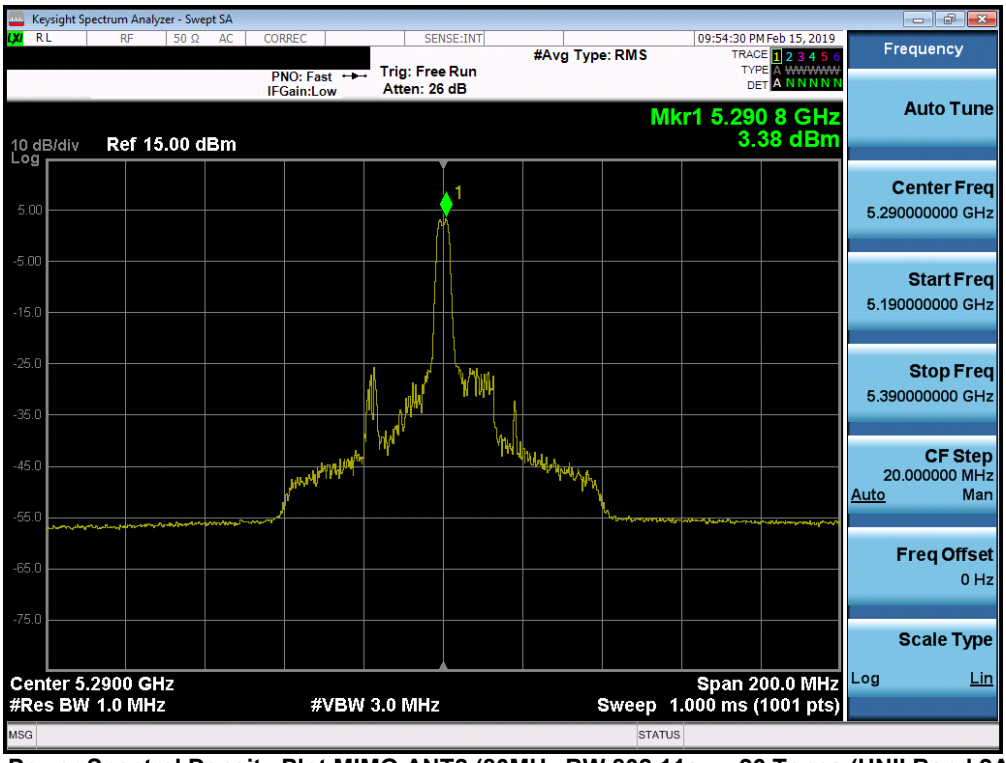


Plot 7-254. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)



Plot 7-255. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

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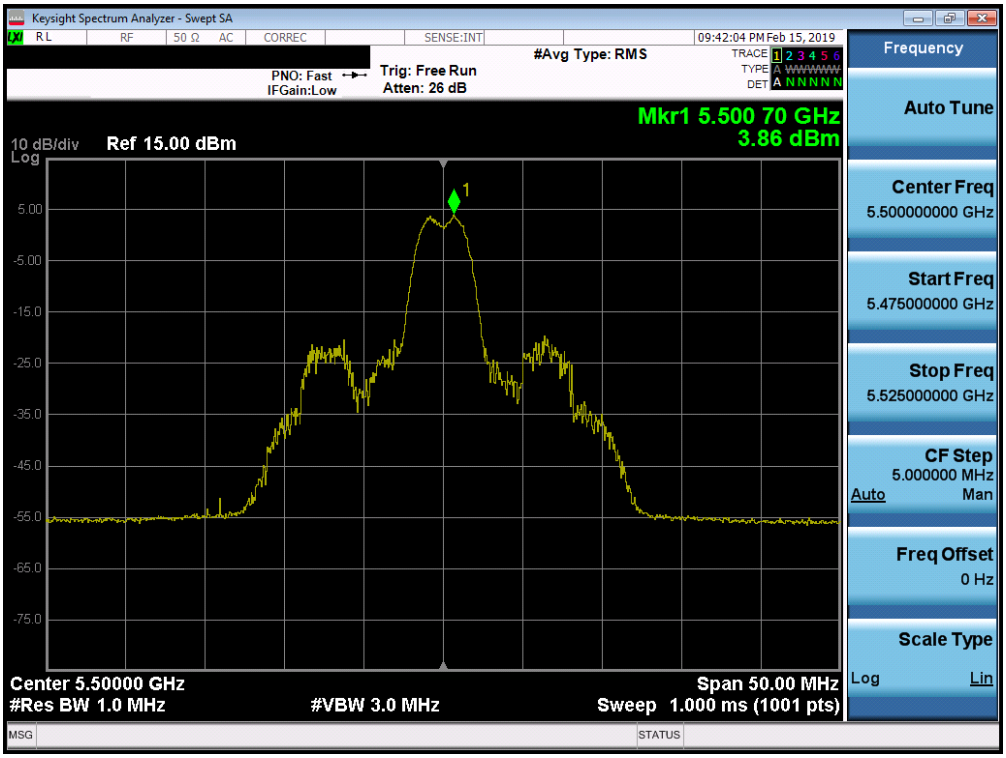

Plot 7-256. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)

Plot 7-257. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

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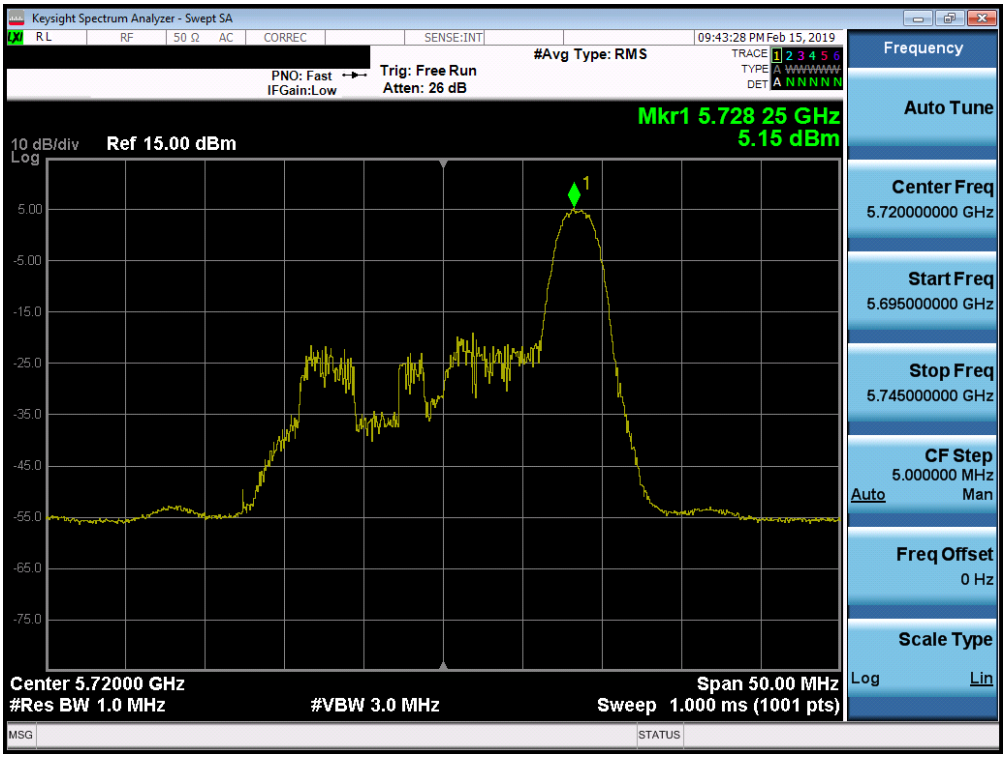
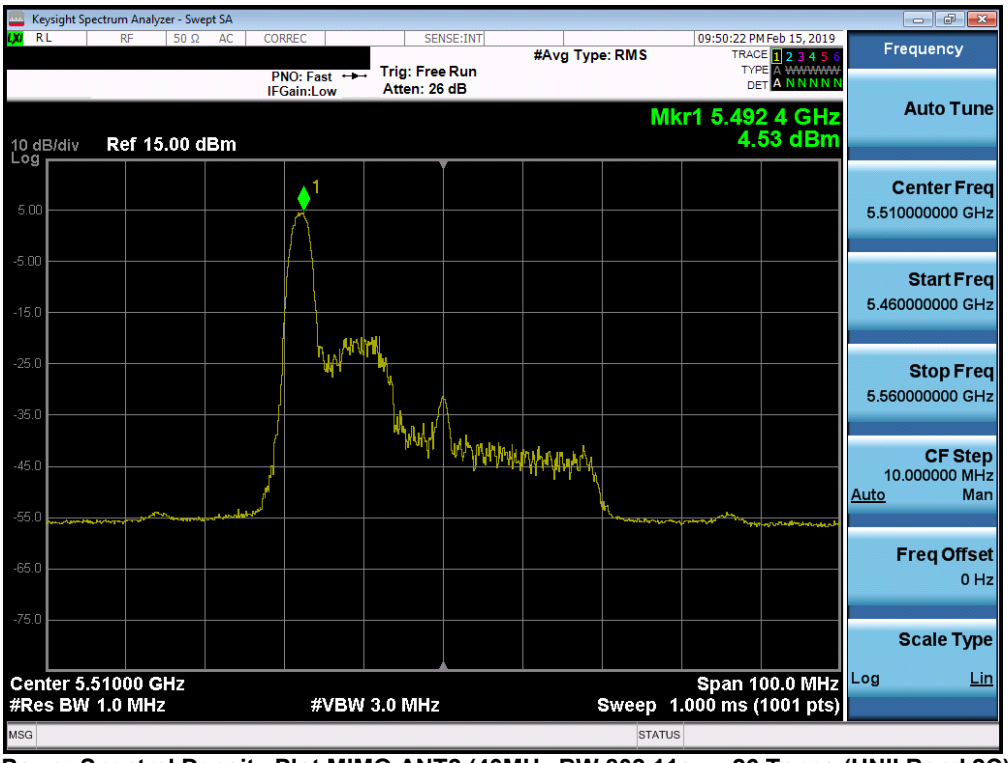


Plot 7-258. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)



Plot 7-259. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

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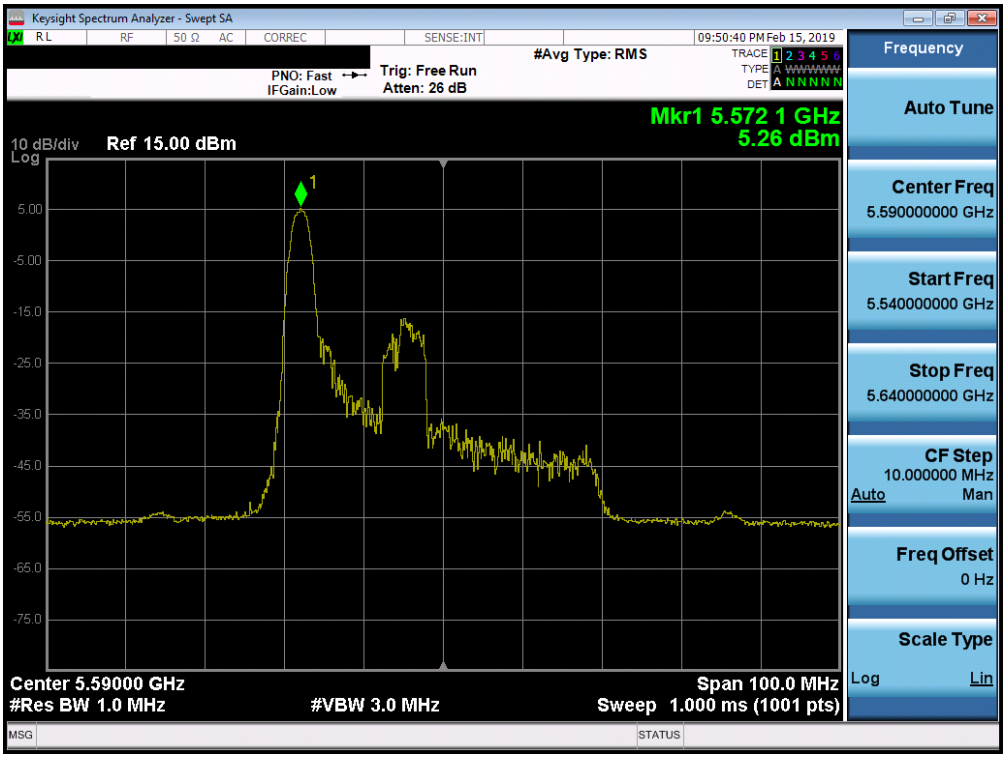
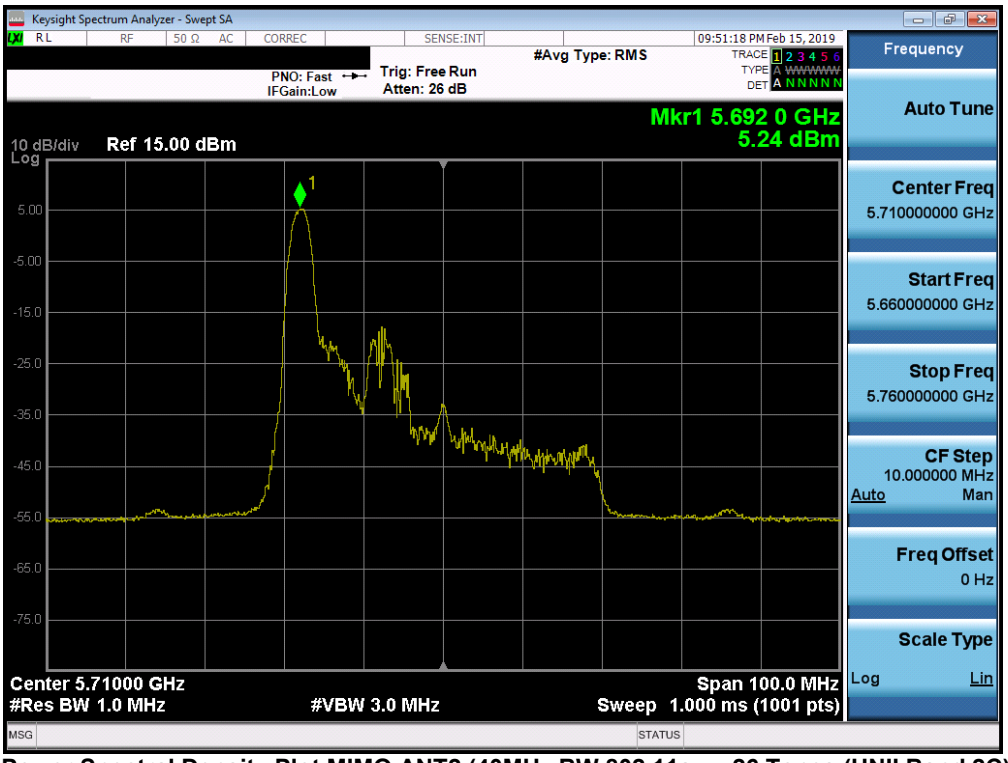


Plot 7-260. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)



Plot 7-261. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

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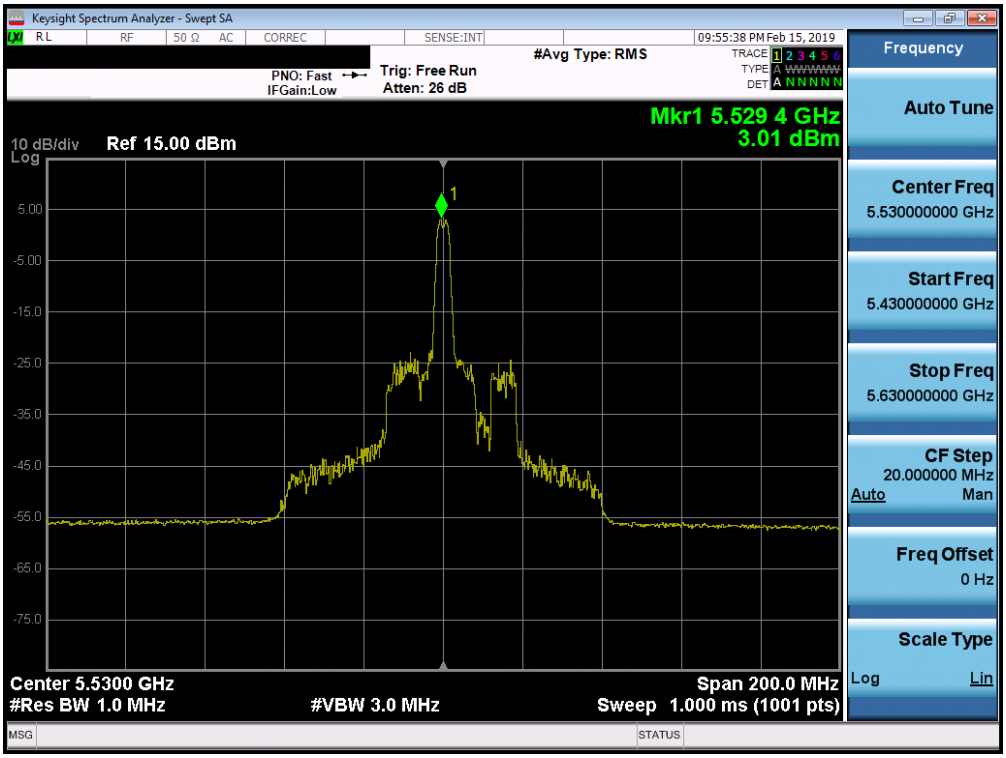
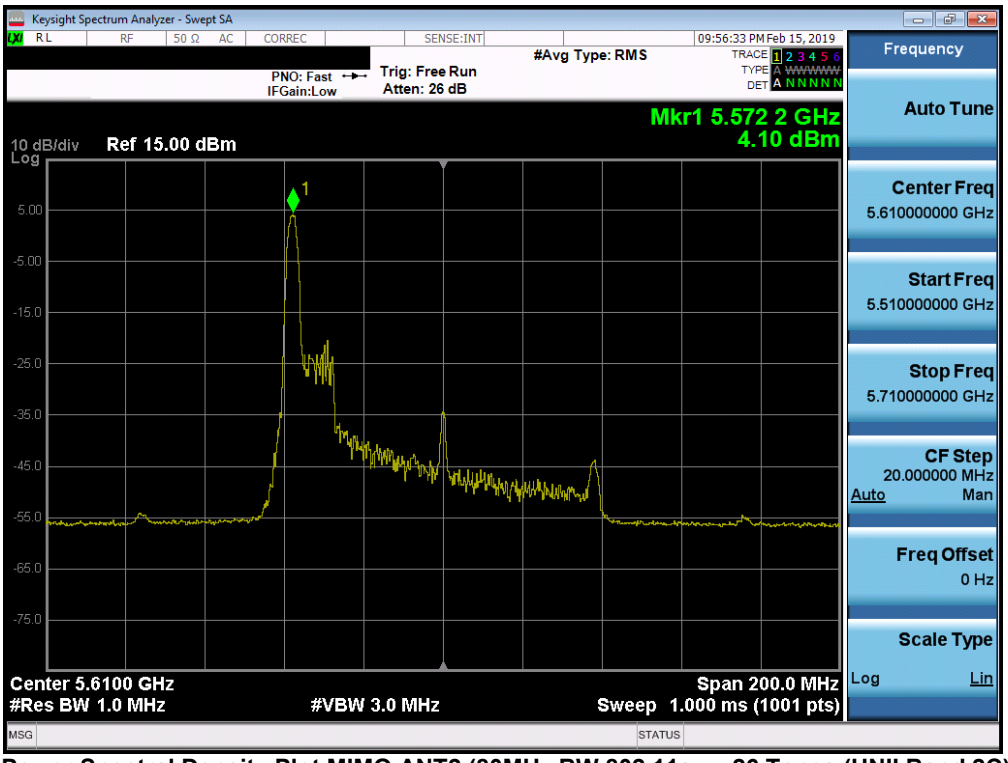


Plot 7-262. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)



Plot 7-263. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

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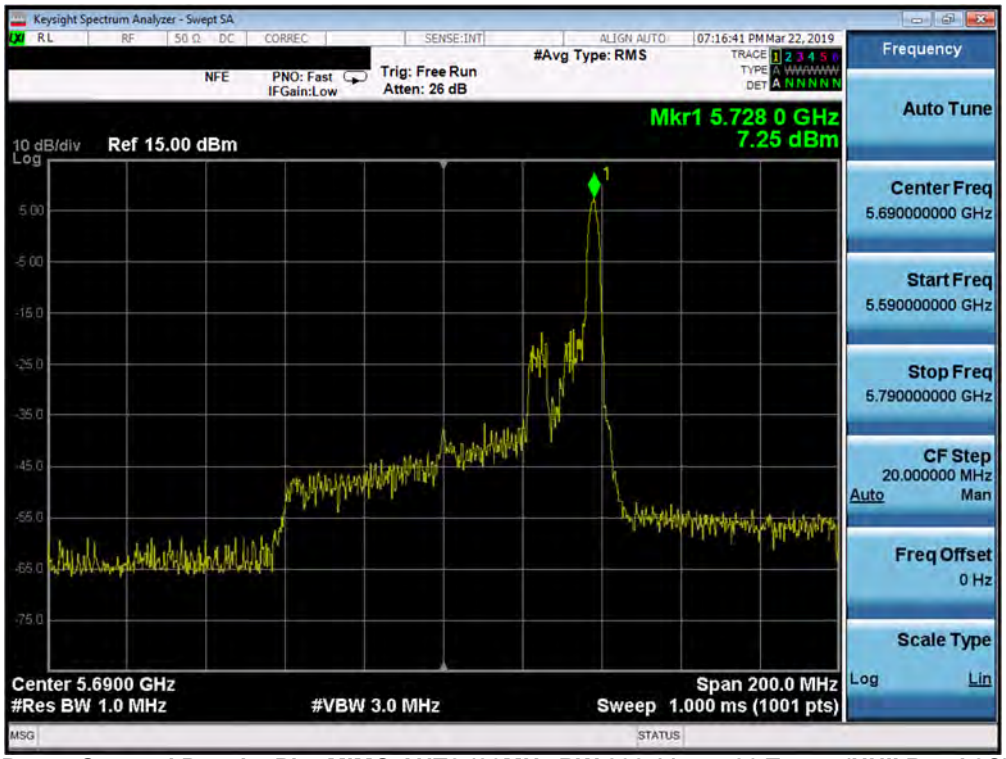
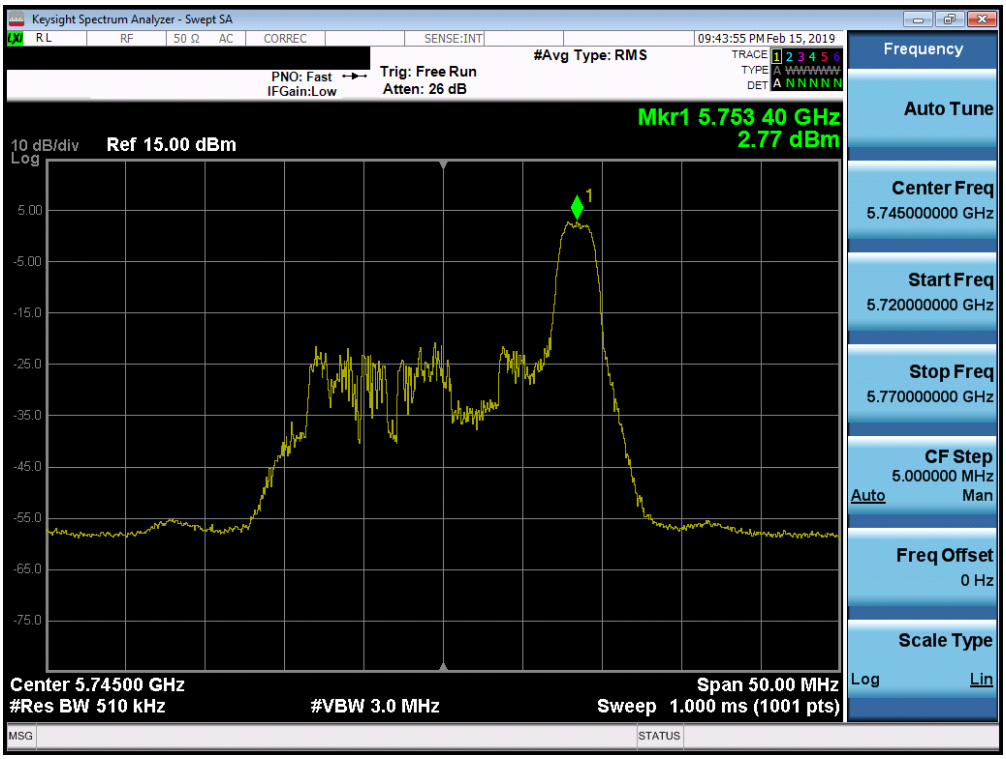


Plot 7-264. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)



Plot 7-265. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

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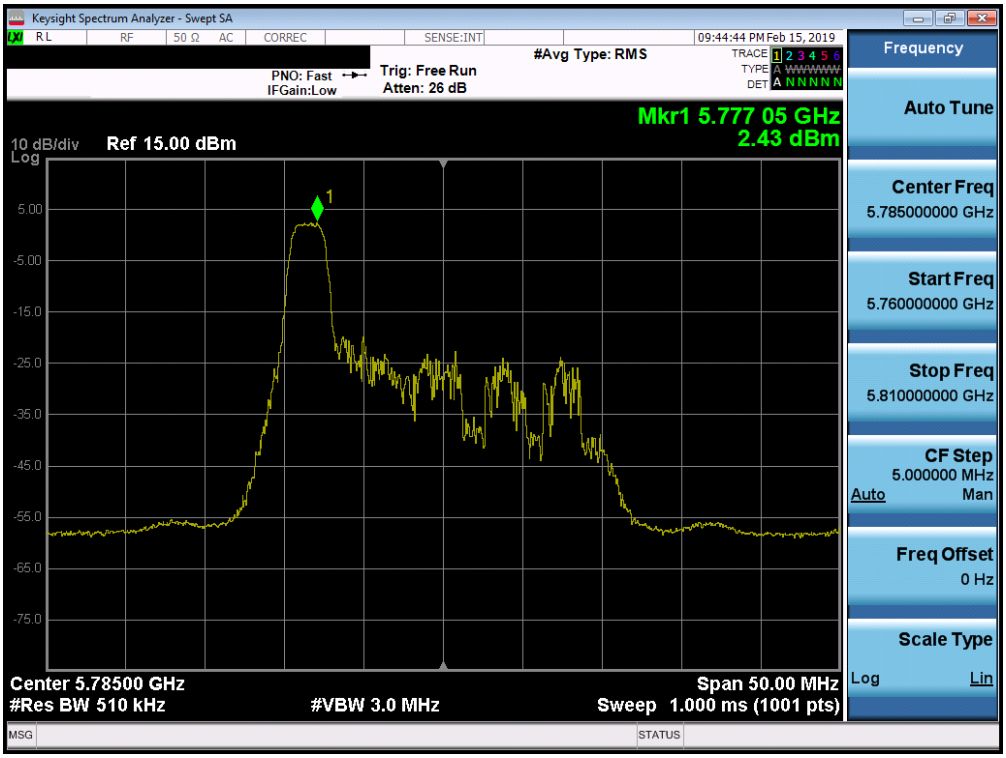
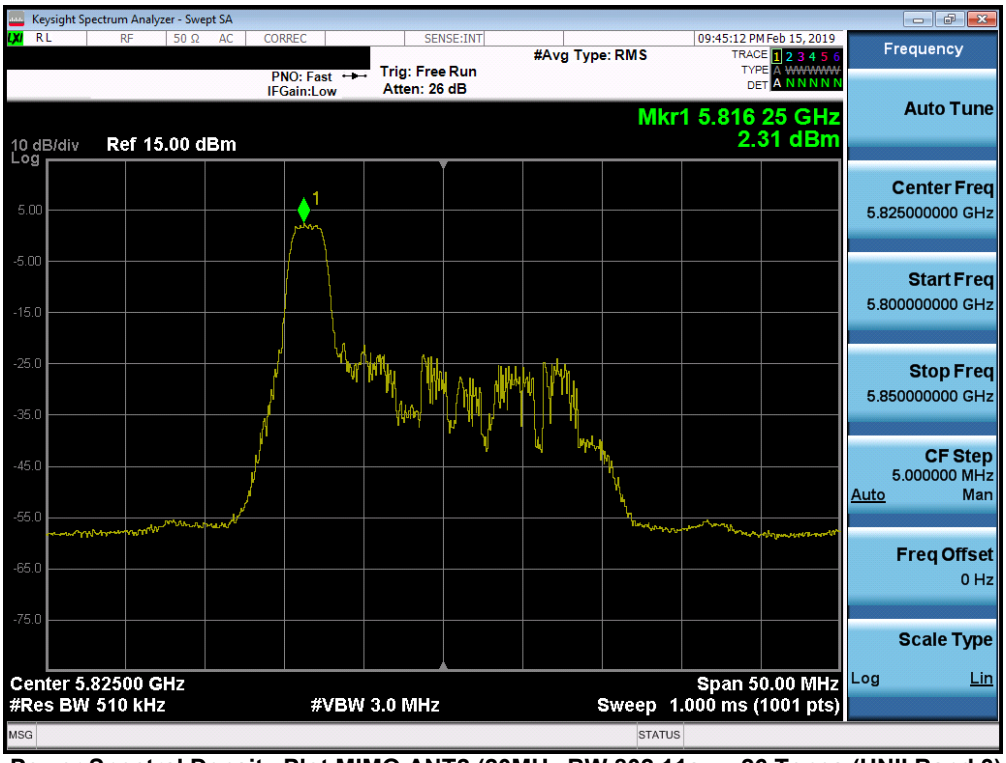


Plot 7-266. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)



Plot 7-267. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

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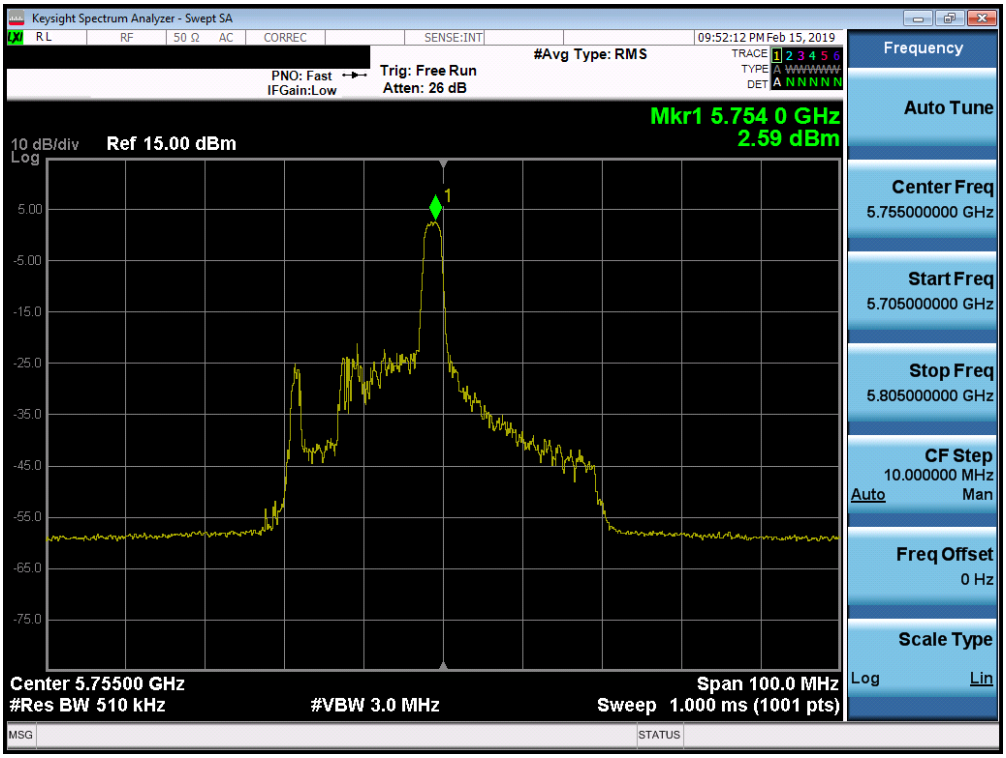
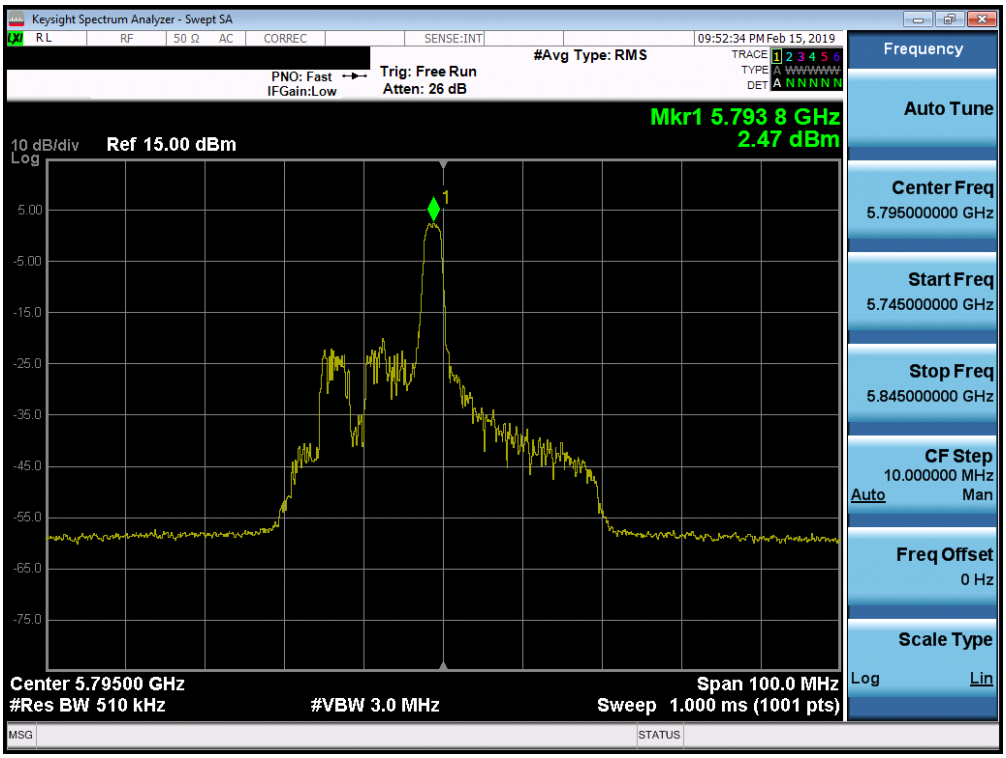


Plot 7-268. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)



Plot 7-269. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)

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Plot 7-270. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

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7.6 Radiated Spurious Emission Measurements – Above 1GHz

§15.407(b) §15.205 §15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. 26 Tones, 52 Tones, 106 Tones, 242 Tones, 484 Tones and 996 Tones), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating in the 5.15-5.25 GHz and 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of −27 dBm/MHz.

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 EIRP of −27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz 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.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-67 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-67. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5
KDB 789033 D02 v02r01 – Section G

Test Settings

Average Measurements above 1GHz (Method AD)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be ≥ 2 x span/RBW)
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

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Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

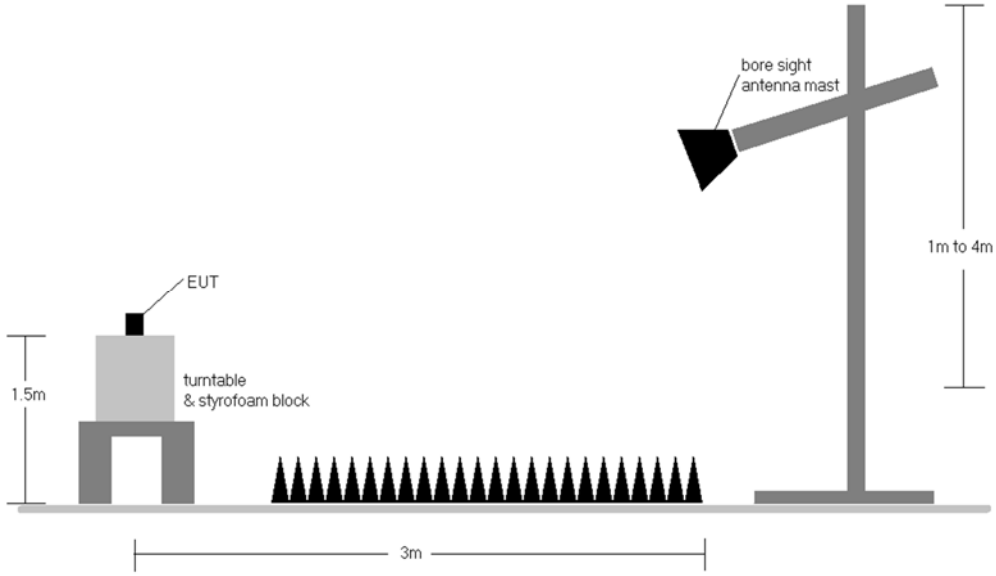

Figure 7-5. Test Instrument & Measurement Setup

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Test Notes

1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-67.
2. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all of the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level $_{[dB\mu V/m]}$ = Analyzer Level $_{[dBm]}$ + 107 + AFCL $_{[dB/m]}$
- AFCL $_{[dB/m]}$ = Antenna Factor $_{[dB/m]}$ + Cable Loss $_{[dB]}$
- Margin $_{[dB]}$ = Field Strength Level $_{[dB\mu V/m]}$ – Limit $_{[dB\mu V/m]}$

Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section Radiated Spurious Emission Measurements – Above 1GHz was calculated using the formula:
  Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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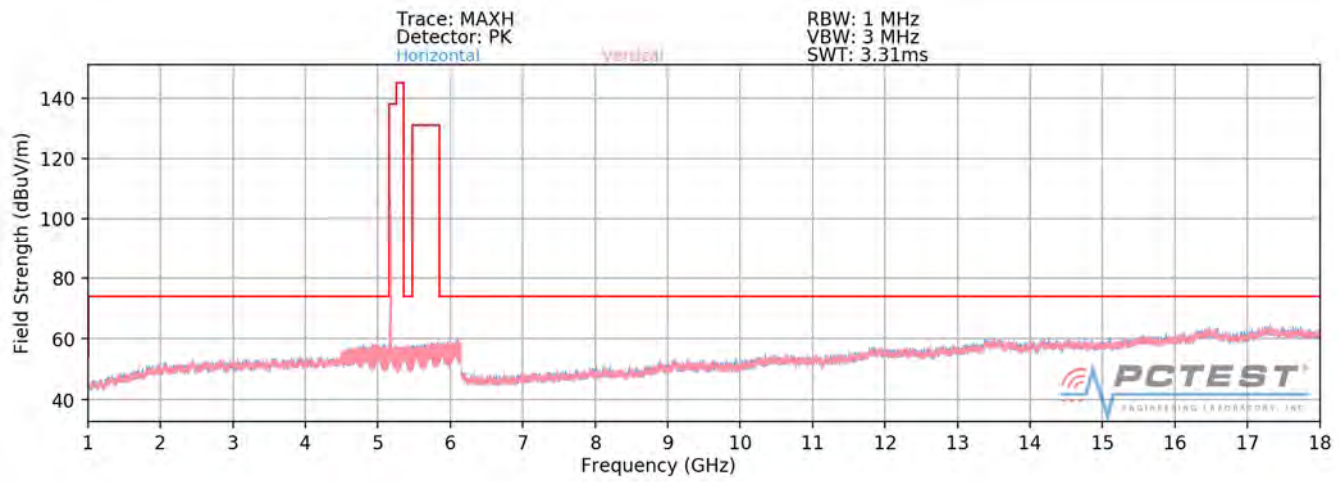
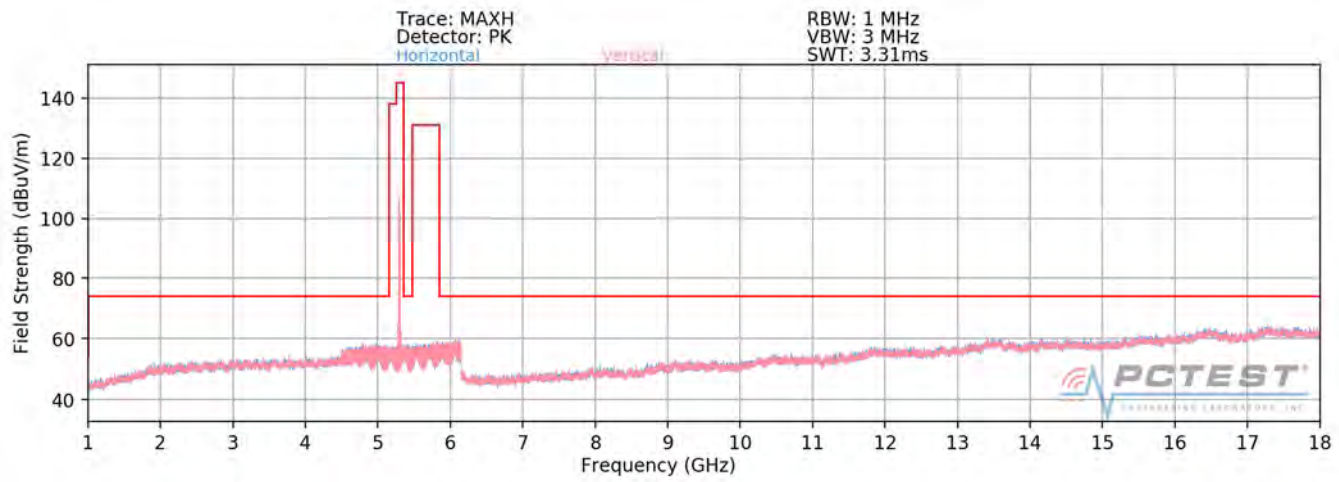
7.6.1 SISO Antenna-1 Radiated Spurious Emission Measurements

26 Tones



Plot 7-271. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U1 Ch. 40 – 26 Tones)



Plot 7-272. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2A Ch. 56 – 26 Tones)

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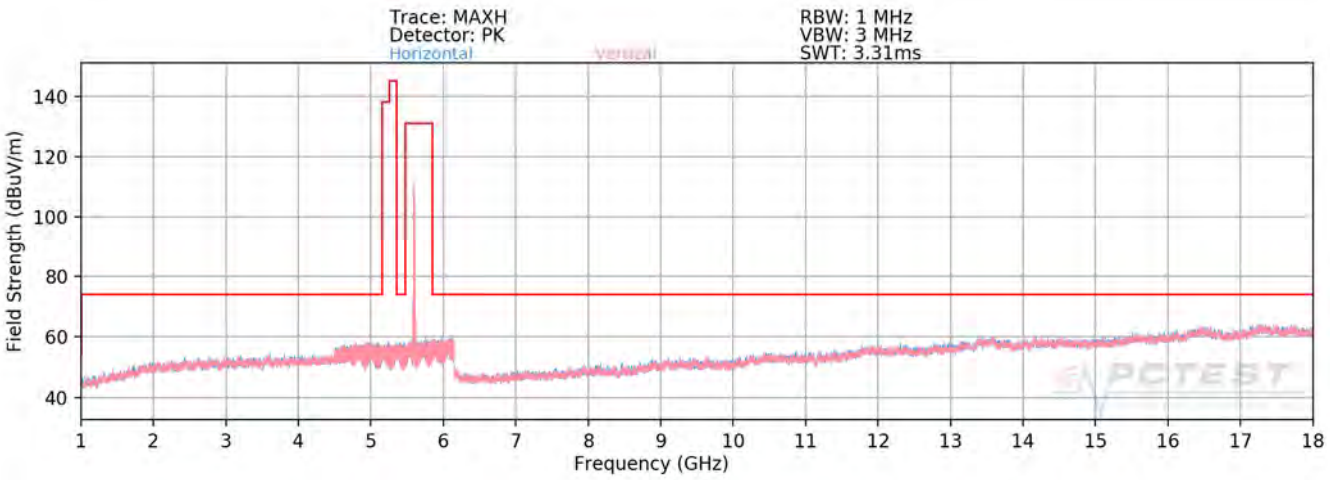
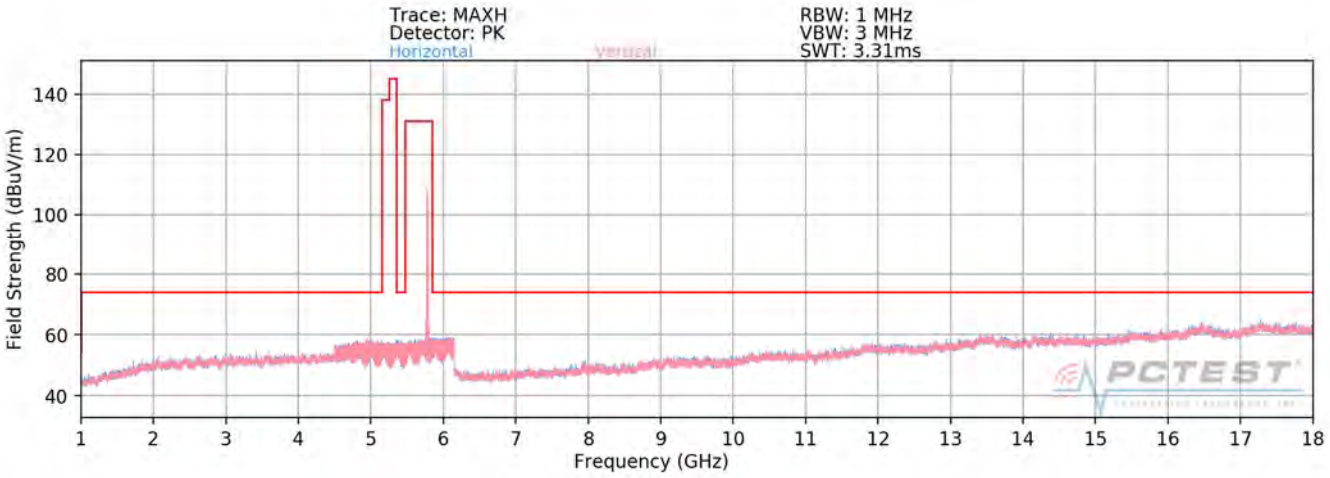


Plot 7-273. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2C Ch. 120 – 26 Tones)



Plot 7-274. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U3 Ch. 157 – 26 Tones)

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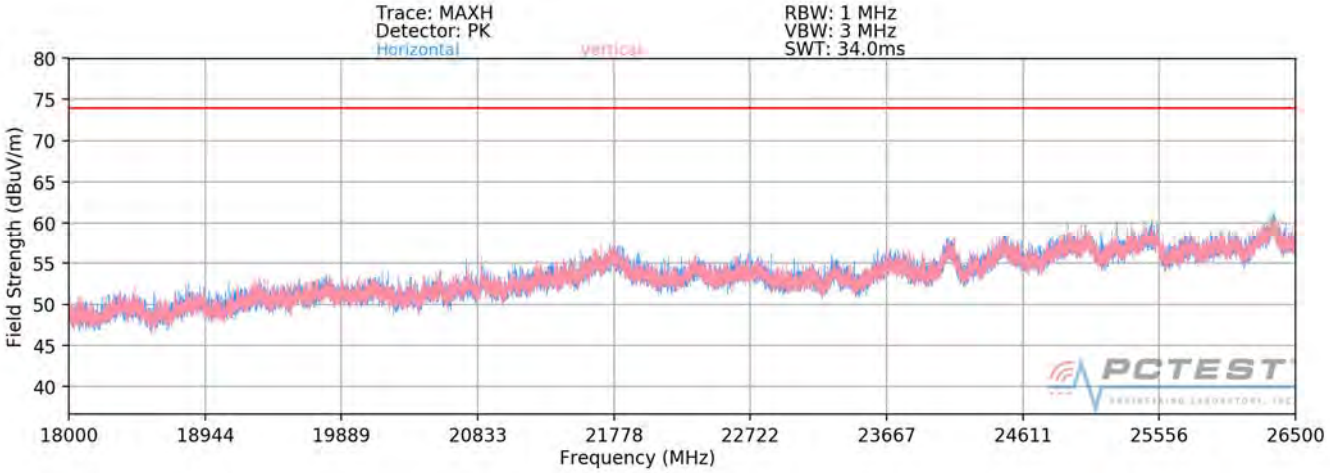
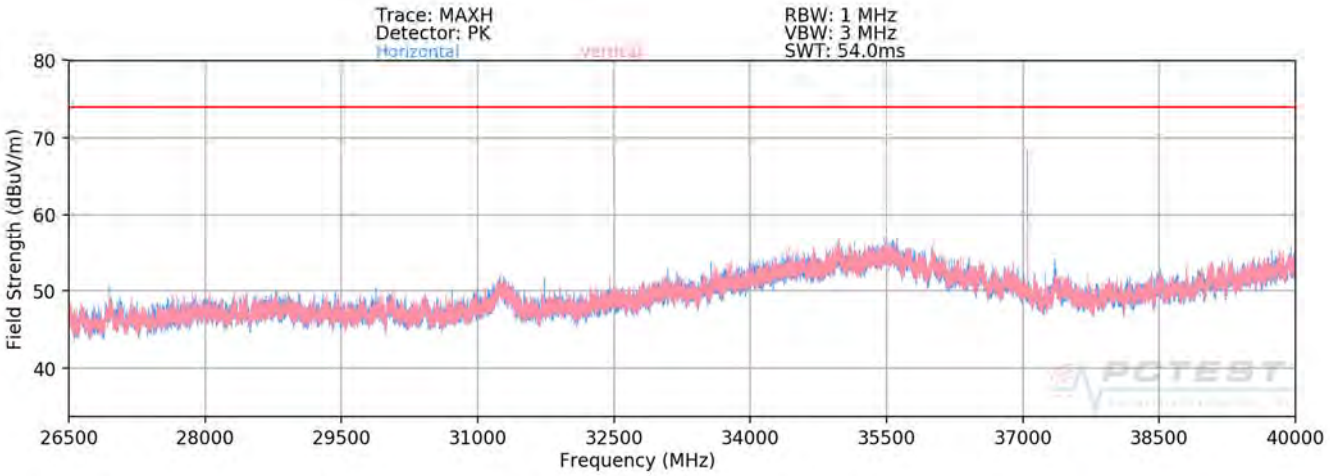
SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-275. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11ax – 26 Tones)



Plot 7-276. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11ax – 26 Tones)

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SISO Antenna-1 Radiated Spurious Emission Measurements (26 Tones)

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5180MHz
Channel: 36

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	H	308	25	-56.30	12.74	0.00	63.44	68.20	-4.76
*	15540.00	Average	H	-	-	-79.47	15.28	0.00	42.81	53.98	-11.17
*	15540.00	Peak	H	-	-	-68.55	15.28	0.00	53.73	73.98	-20.25
*	20720.00	Average	H	-	-	-77.92	17.17	-9.54	36.70	53.98	-17.28
*	20720.00	Peak	H	-	-	-67.62	17.17	-9.54	47.00	73.98	-26.98
	25900.00	Peak	H	-	-	-65.18	19.93	-9.54	52.20	68.20	-16.00

Table 7-68. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5200MHz
Channel: 40

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10400.00	Peak	H	293	16	-57.80	12.24	0.00	61.44	68.20	-6.76
*	15600.00	Average	H	-	-	-79.61	15.40	0.00	42.79	53.98	-11.18
*	15600.00	Peak	H	-	-	-69.55	15.40	0.00	52.85	73.98	-21.12
*	20800.00	Average	H	-	-	-77.91	17.65	-9.54	37.20	53.98	-16.78
*	20800.00	Peak	H	-	-	-66.69	17.65	-9.54	48.42	73.98	-25.56
	26000.00	Peak	H	-	-	-64.93	20.68	-9.54	53.21	68.20	-14.99

Table 7-69. Radiated Measurements SISO ANT1 (26 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5240MHz
Channel: 48

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10480.00	Peak	H	290	1	-59.75	12.41	0.00	59.66	68.20	-8.54
*	15720.00	Average	H	-	-	-79.65	16.70	0.00	44.05	53.98	-9.93
*	15720.00	Peak	H	-	-	-69.72	16.70	0.00	53.98	73.98	-20.00
*	20960.00	Average	H	-	-	-78.21	17.53	-9.54	36.78	53.98	-17.20
*	20960.00	Peak	H	-	-	-67.09	17.53	-9.54	47.90	73.98	-26.08
	26200.00	Peak	H	-	-	-64.96	20.23	-9.54	52.73	68.20	-15.47

Table 7-70. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5260MHz
Channel: 52

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10520.00	Peak	H	309	5	-62.75	13.16	0.00	57.41	68.20	-10.79
*	15780.00	Average	H	-	-	-79.72	16.21	0.00	43.49	53.98	-10.49
*	15780.00	Peak	H	-	-	-70.48	16.21	0.00	52.73	73.98	-21.25
*	21040.00	Average	H	-	-	-77.37	17.48	-9.54	37.56	53.98	-16.42
*	21040.00	Peak	H	-	-	-66.59	17.48	-9.54	48.34	73.98	-25.64
	26300.00	Peak	H	-	-	-65.04	20.33	-9.54	52.75	68.20	-15.45

Table 7-71. Radiated Measurements SISO ANT1 (26 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5280MHz
Channel: 56

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10560.00	Peak	H	356	10	-63.25	13.66	0.00	57.41	68.20	-10.79
*	15840.00	Average	H	-	-	-79.66	15.64	0.00	42.98	53.98	-11.00
*	15840.00	Peak	H	-	-	-69.67	15.64	0.00	52.97	73.98	-21.01
*	21120.00	Average	H	-	-	-77.29	17.27	-9.54	37.43	53.98	-16.54
*	21120.00	Peak	H	-	-	-65.58	17.27	-9.54	49.14	73.98	-24.83
	26400.00	Peak	H	-	-	-64.72	20.27	-9.54	53.01	68.20	-15.19

Table 7-72. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5320MHz
Channel: 64

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	10640.00	Average	H	330	358	-76.46	14.15	0.00	44.69	53.98	-9.29
*	10640.00	Peak	H	330	358	-63.97	14.15	0.00	57.18	73.98	-16.80
*	15960.00	Average	H	-	-	-79.72	15.01	0.00	42.29	53.98	-11.69
*	15960.00	Peak	H	-	-	-69.61	15.01	0.00	52.40	73.98	-21.58
*	21280.00	Average	H	-	-	-77.29	17.58	-9.54	37.75	53.98	-16.23
*	21280.00	Peak	H	-	-	-66.04	17.58	-9.54	49.00	73.98	-24.98
	26600.00	Peak	H	-	-	-50.76	3.11	-9.54	49.81	68.20	-18.39

Table 7-73. Radiated Measurements SISO ANT1 (26 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5500MHz
Channel: 100

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11000.00	Average	H	-	-	-79.07	13.55	0.00	41.48	53.98	-12.50
*	11000.00	Peak	H	-	-	-68.05	13.55	0.00	52.50	73.98	-21.48
	16500.00	Peak	H	-	-	-69.29	16.10	0.00	53.81	68.20	-14.39
	22000.00	Peak	H	-	-	-66.26	18.05	-9.54	49.25	68.20	-18.95
	27500.00	Peak	H	-	-	-49.46	2.08	-9.54	50.08	68.20	-18.12

Table 7-74. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5600MHz
Channel: 120

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11200.00	Average	H	398	32	-78.14	14.57	0.00	43.43	53.98	-10.55
*	11200.00	Peak	H	398	32	-67.77	14.57	0.00	53.80	73.98	-20.18
	16800.00	Peak	H	-	-	-69.08	17.52	0.00	55.44	68.20	-12.76
*	22400.00	Average	H	-	-	-77.50	19.05	-9.54	39.01	53.98	-14.97
*	22400.00	Peak	H	-	-	-65.92	19.05	-9.54	50.59	73.98	-23.39
	28000.00	Peak	H	-	-	-50.51	3.19	-9.54	50.13	68.20	-18.07

Table 7-75. Radiated Measurements SISO ANT1 (26 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5720MHz
Channel: 144

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11440.00	Average	H	132	277	-73.91	15.10	0.00	48.19	53.98	-5.79
*	11440.00	Peak	H	132	277	-62.86	15.10	0.00	59.24	73.98	-14.74
	17160.00	Peak	H	-	-	-68.08	18.83	0.00	57.75	68.20	-10.45
*	22880.00	Average	H	-	-	-77.81	18.60	-9.54	38.24	53.98	-15.74
*	22880.00	Peak	H	-	-	-66.63	18.60	-9.54	49.42	73.98	-24.56
	28600.00	Peak	H	-	-	-49.28	1.74	-9.54	49.91	68.20	-18.29

Table 7-76. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5745MHz
Channel: 149

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11490.00	Average	H	119	277	-75.76	15.22	0.00	46.46	53.98	-7.52
*	11490.00	Peak	H	119	277	-63.11	15.22	0.00	59.11	73.98	-14.87
	17235.00	Peak	H	-	-	-69.22	19.54	0.00	57.32	68.20	-10.88
*	22980.00	Average	H	-	-	-77.40	18.46	-9.54	38.52	53.98	-15.46
*	22980.00	Peak	H	-	-	-65.71	18.46	-9.54	50.21	73.98	-23.77
	28725.00	Peak	H	-	-	-49.93	2.47	-9.54	50.00	68.20	-18.20

Table 7-77. Radiated Measurements SISO ANT1 (26 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5785MHz
Channel: 157

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11570.00	Average	H	112	282	-76.18	15.02	0.00	45.84	53.98	-8.14
*	11570.00	Peak	H	112	282	-65.44	15.02	0.00	56.58	73.98	-17.40
	17355.00	Peak	H	-	-	-70.40	23.41	0.00	60.01	68.20	-8.19
	23140.00	Peak	H	-	-	-65.31	18.84	-9.54	50.99	68.20	-17.21
	28925.00	Peak	H	-	-	-50.95	2.80	-9.54	49.31	68.20	-18.89

Table 7-78. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5825MHz
Channel: 165

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11650.00	Average	H	116	279	-77.65	14.92	0.00	44.27	53.98	-9.71
*	11650.00	Peak	H	116	279	-67.38	14.92	0.00	54.54	73.98	-19.44
	17475.00	Peak	H	-	-	-69.66	21.86	0.00	59.20	68.20	-9.00
	23300.00	Peak	H	-	-	-66.82	19.55	-9.54	50.18	68.20	-18.02
	29125.00	Peak	H	-	-	-50.28	1.07	-9.54	48.25	68.20	-19.95

Table 7-79. Radiated Measurements SISO ANT1 (26 Tones)

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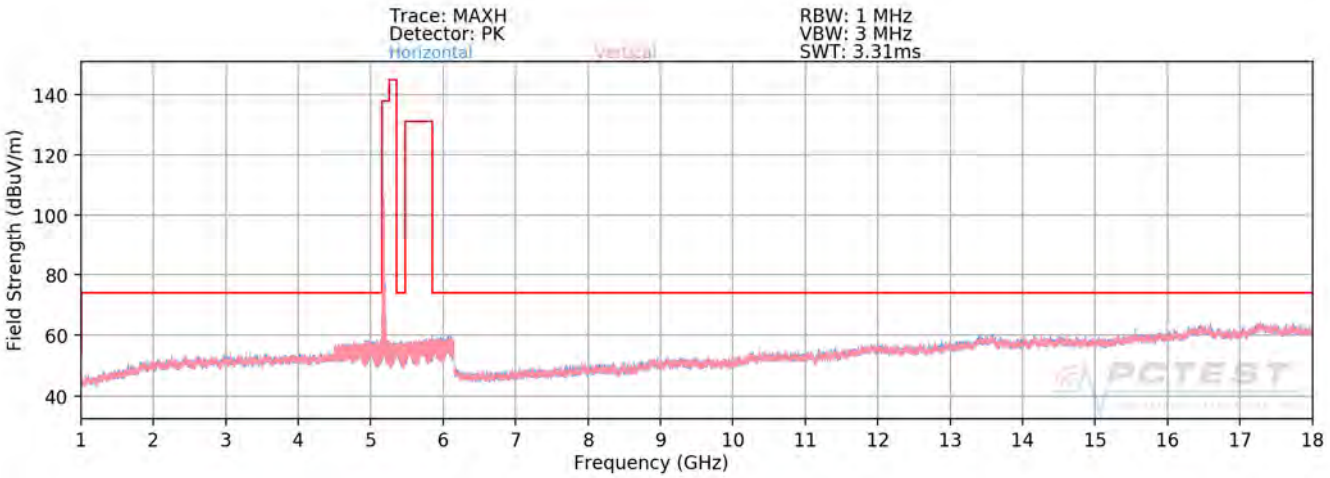
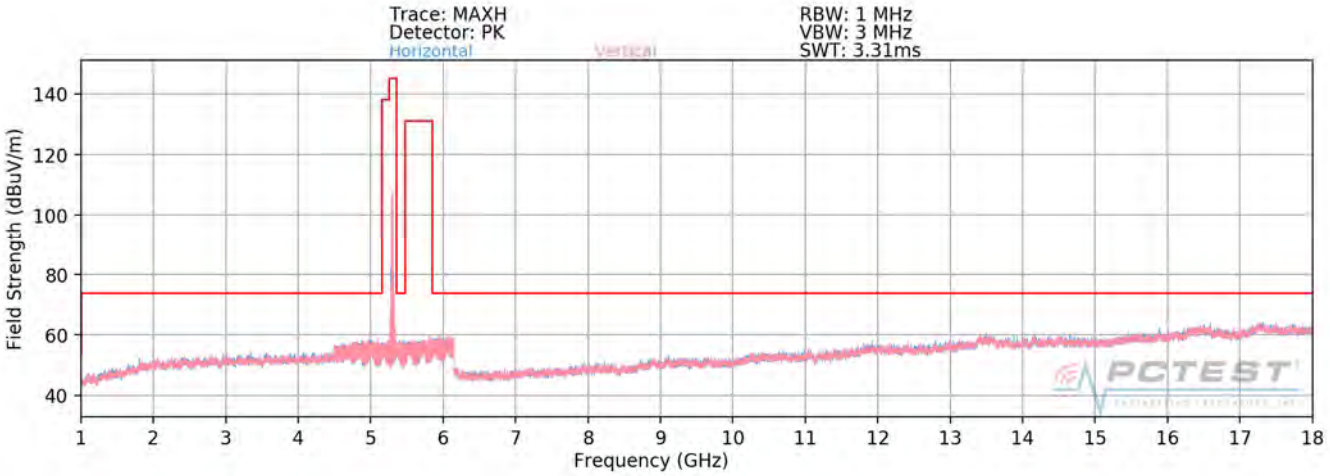
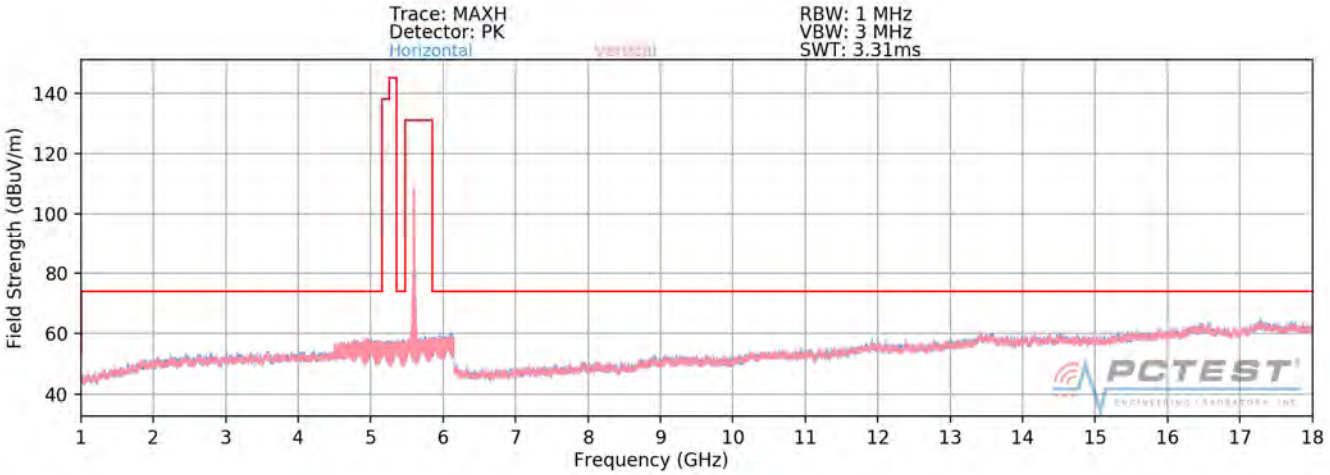
242 Tones



Plot 7-277. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U1 Ch. 40 – 242 Tones)



Plot 7-278. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2A Ch. 56 – 242 Tones)



Plot 7-279. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2C Ch. 120 – 242 Tones)

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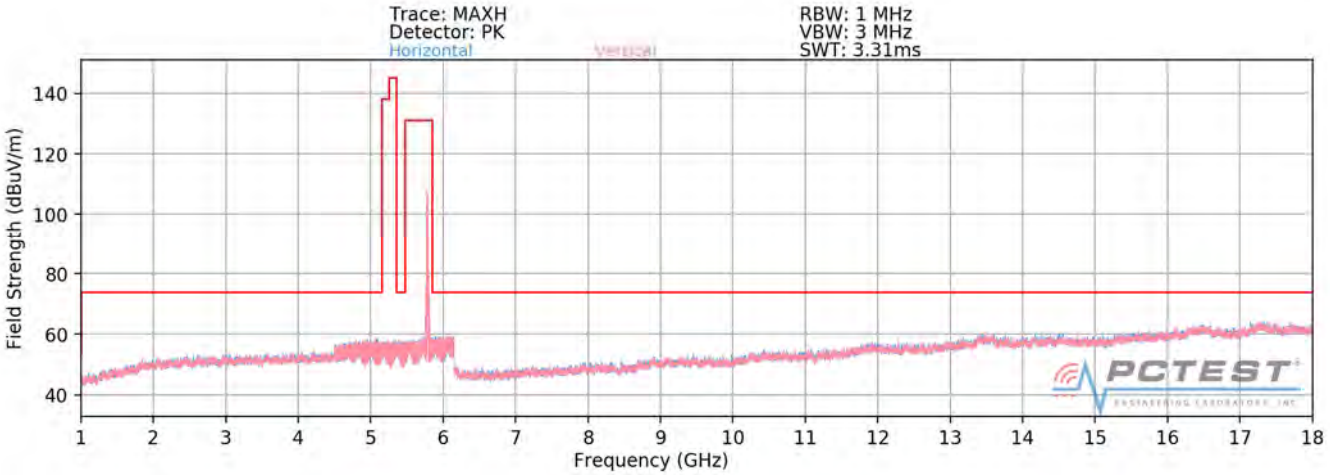

Plot 7-280. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U3 Ch. 157 – 242 Tones)

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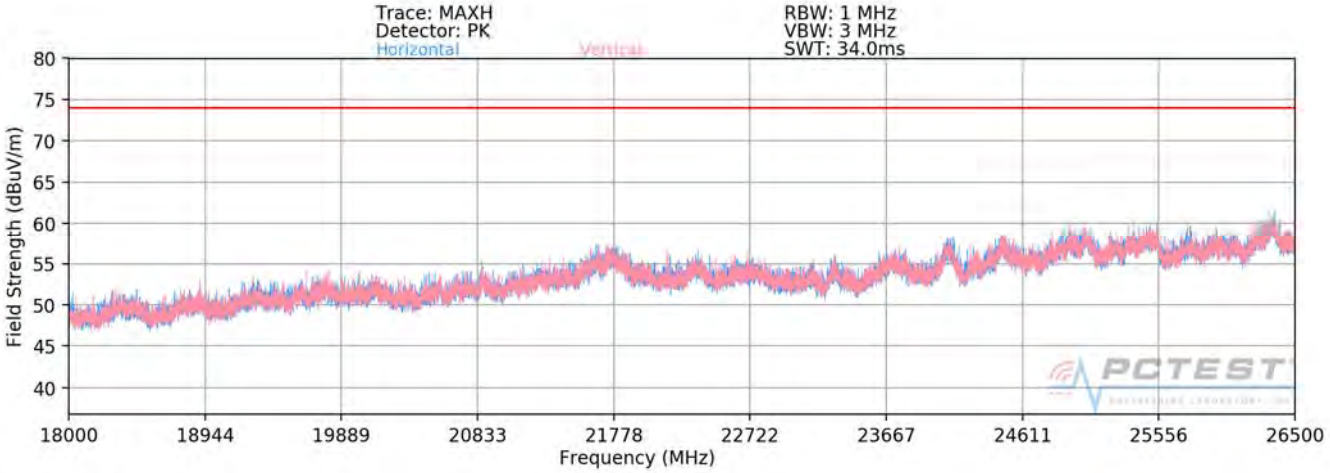
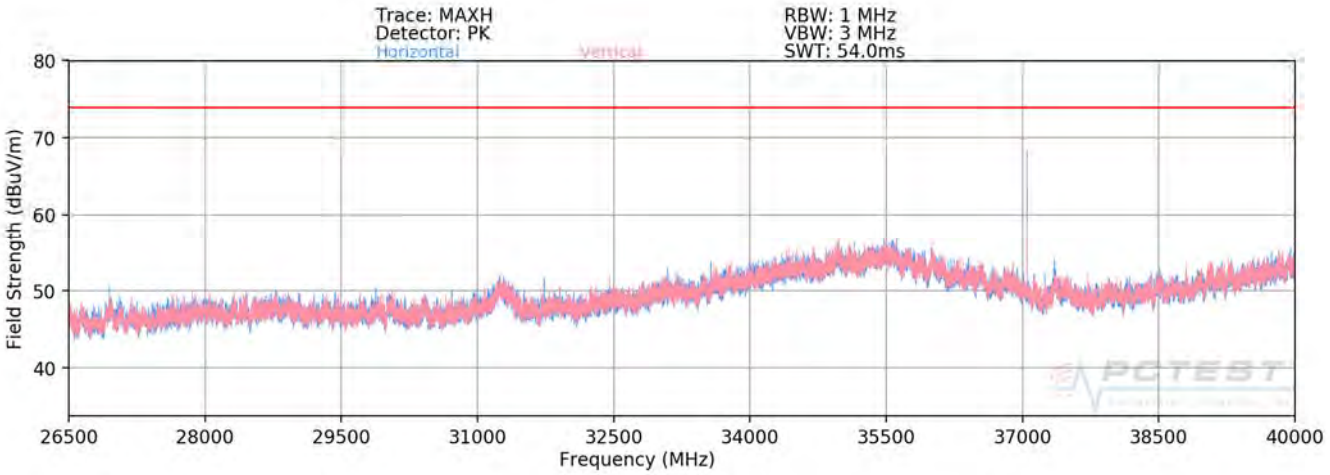
SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-281. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11ax – 242 Tones)



Plot 7-282. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11ax – 242 Tones)

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SISO Antenna-1 Radiated Spurious Emission Measurements (242 Tones)

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5180MHz
Channel: 36

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	H	257	356	-69.83	18.99	0.00	56.16	68.20	-12.04
*	15540.00	Average	H	-	-	-85.36	27.73	0.00	49.37	53.98	-4.61
*	15540.00	Peak	H	-	-	-74.29	27.73	0.00	60.44	73.98	-13.54
*	20720.00	Average	H	-	-	-77.89	17.17	-9.54	36.73	53.98	-17.25
*	20720.00	Peak	H	-	-	-66.61	17.17	-9.54	48.01	73.98	-25.97
	25900.00	Peak	H	-	-	-65.52	19.93	-9.54	51.86	68.20	-16.34

Table 7-80. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5200MHz
Channel: 40

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10400.00	Peak	H	247	353	-70.12	19.36	0.00	56.24	68.20	-11.96
*	15600.00	Average	H	-	-	-85.41	27.61	0.00	49.20	53.98	-4.78
*	15600.00	Peak	H	-	-	-75.05	27.61	0.00	59.56	73.98	-14.42
*	20800.00	Average	H	-	-	-77.93	17.65	-9.54	37.18	53.98	-16.80
*	20800.00	Peak	H	-	-	-66.92	17.65	-9.54	48.19	73.98	-25.79
	26000.00	Peak	H	-	-	-65.67	20.68	-9.54	52.47	68.20	-15.73

Table 7-81. Radiated Measurements SISO ANT1 (242 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5240MHz
Channel: 48

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10480.00	Peak	H	-	-	-73.23	19.72	0.00	53.49	68.20	-14.71
*	15720.00	Average	H	-	-	-85.21	27.41	0.00	49.20	53.98	-4.78
*	15720.00	Peak	H	-	-	-73.57	27.41	0.00	60.84	73.98	-13.14
*	20960.00	Average	H	-	-	-78.07	17.53	-9.54	36.92	53.98	-17.06
*	20960.00	Peak	H	-	-	-66.38	17.53	-9.54	48.61	73.98	-25.37
	26200.00	Peak	H	-	-	-65.51	20.23	-9.54	52.18	68.20	-16.02

Table 7-82. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5260MHz
Channel: 52

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10520.00	Peak	H	-	-	-72.97	19.44	0.00	53.47	68.20	-14.73
*	15780.00	Average	H	-	-	-85.24	27.10	0.00	48.86	53.98	-5.12
*	15780.00	Peak	H	-	-	-73.25	27.10	0.00	60.85	73.98	-13.13
*	21040.00	Average	H	-	-	-77.81	17.48	-9.54	37.12	53.98	-16.86
*	21040.00	Peak	H	-	-	-66.78	17.48	-9.54	48.15	73.98	-25.83
	26300.00	Peak	H	-	-	-65.18	20.33	-9.54	52.61	68.20	-15.59

Table 7-83. Radiated Measurements SISO ANT1 (242 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5280MHz
Channel: 56

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10560.00	Peak	H	-	-	-72.70	19.62	0.00	53.92	68.20	-14.28
*	15840.00	Average	H	-	-	-84.72	27.05	0.00	49.33	53.98	-4.65
*	15840.00	Peak	H	-	-	-74.10	27.05	0.00	59.95	73.98	-14.03
*	21120.00	Average	H	-	-	-77.72	17.27	-9.54	37.00	53.98	-16.97
*	21120.00	Peak	H	-	-	-66.59	17.27	-9.54	48.13	73.98	-25.84
	26400.00	Peak	H	-	-	-66.44	20.27	-9.54	51.29	68.20	-16.91

Table 7-84. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5320MHz
Channel: 64

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	10640.00	Average	H	-	-	-83.45	19.97	0.00	43.52	53.98	-10.46
*	10640.00	Peak	H	-	-	-71.82	19.97	0.00	55.15	73.98	-18.83
*	15960.00	Average	H	-	-	-85.36	27.35	0.00	48.99	53.98	-4.99
*	15960.00	Peak	H	-	-	-73.92	27.35	0.00	60.43	73.98	-13.55
*	21280.00	Average	H	-	-	-77.33	17.58	-9.54	37.71	53.98	-16.27
*	21280.00	Peak	H	-	-	-66.06	17.58	-9.54	48.98	73.98	-25.00
	26600.00	Peak	H	-	-	-51.84	3.11	-9.54	48.73	68.20	-19.47

Table 7-85. Radiated Measurements SISO ANT1 (242 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5500MHz
Channel: 100

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11000.00	Average	H	-	-	-79.16	13.55	0.00	41.39	53.98	-12.59
*	11000.00	Peak	H	-	-	-68.06	13.55	0.00	52.49	73.98	-21.49
	16500.00	Peak	H	-	-	-68.98	16.10	0.00	54.12	68.20	-14.08
	22000.00	Peak	H	-	-	-66.08	18.05	-9.54	49.43	68.20	-18.77
	27500.00	Peak	H	-	-	-49.42	2.08	-9.54	50.12	68.20	-18.08

Table 7-86. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5600MHz
Channel: 120

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11200.00	Average	H	398	62	-76.96	14.57	0.00	44.61	53.98	-9.37
*	11200.00	Peak	H	398	62	-65.24	14.57	0.00	56.33	73.98	-17.65
	16800.00	Peak	H	-	-	-68.33	17.52	0.00	56.19	68.20	-12.01
*	22400.00	Average	H	-	-	-78.01	19.05	-9.54	38.50	53.98	-15.48
*	22400.00	Peak	H	-	-	-66.55	19.05	-9.54	49.96	73.98	-24.02
	28000.00	Peak	H	-	-	-50.80	3.19	-9.54	49.84	68.20	-18.36

Table 7-87. Radiated Measurements SISO ANT1 (242 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5720MHz
Channel: 144

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11440.00	Average	H	118	280	-75.15	15.10	0.00	46.95	53.98	-7.03
*	11440.00	Peak	H	118	280	-64.06	15.10	0.00	58.04	73.98	-15.94
	17160.00	Peak	H	-	-	-68.28	18.83	0.00	57.55	68.20	-10.65
*	22880.00	Average	H	-	-	-78.32	18.60	-9.54	37.73	53.98	-16.25
*	22880.00	Peak	H	-	-	-67.41	18.60	-9.54	48.64	73.98	-25.34
	28600.00	Peak	H	-	-	-48.92	1.74	-9.54	50.27	68.20	-17.93

Table 7-88. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5745MHz
Channel: 149

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11490.00	Average	H	111	278	-76.23	15.22	0.00	45.99	53.98	-7.99
*	11490.00	Peak	H	111	278	-64.56	15.22	0.00	57.66	73.98	-16.32
	17235.00	Peak	H	-	-	-68.97	19.54	0.00	57.57	68.20	-10.63
*	22980.00	Average	H	-	-	-77.80	18.46	-9.54	38.12	53.98	-15.86
*	22980.00	Peak	H	-	-	-66.67	18.46	-9.54	49.25	73.98	-24.73
	28725.00	Peak	H	-	-	-50.34	2.47	-9.54	49.59	68.20	-18.61

Table 7-89. Radiated Measurements SISO ANT1 (242 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5785MHz
Channel: 157

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11570.00	Average	H	111	279	-76.96	15.02	0.00	45.06	53.98	-8.92
*	11570.00	Peak	H	111	279	-65.89	15.02	0.00	56.13	73.98	-17.85
	17355.00	Peak	H	-	-	-68.94	23.41	0.00	61.47	68.20	-6.73
	23140.00	Peak	H	-	-	-67.13	18.84	-9.54	49.17	68.20	-19.03
	28925.00	Peak	H	-	-	-50.14	2.80	-9.54	50.12	68.20	-18.08

Table 7-90. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5825MHz
Channel: 165

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11650.00	Average	H	117	281	-78.19	14.92	0.00	43.73	53.98	-10.25
*	11650.00	Peak	H	117	281	-66.95	14.92	0.00	54.97	73.98	-19.01
	17475.00	Peak	H	-	-	-69.47	21.86	0.00	59.39	68.20	-8.81
	23300.00	Peak	H	-	-	-66.48	19.55	-9.54	50.52	68.20	-17.68
	29125.00	Peak	H	-	-	-49.46	1.07	-9.54	49.07	68.20	-19.13

Table 7-91. Radiated Measurements SISO ANT1 (242 Tones)

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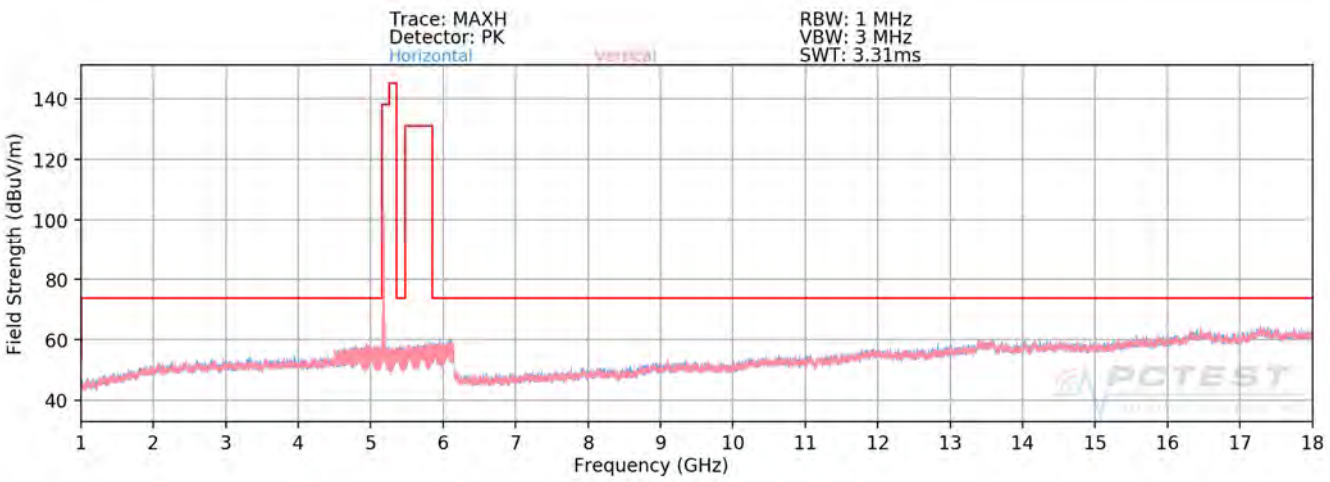
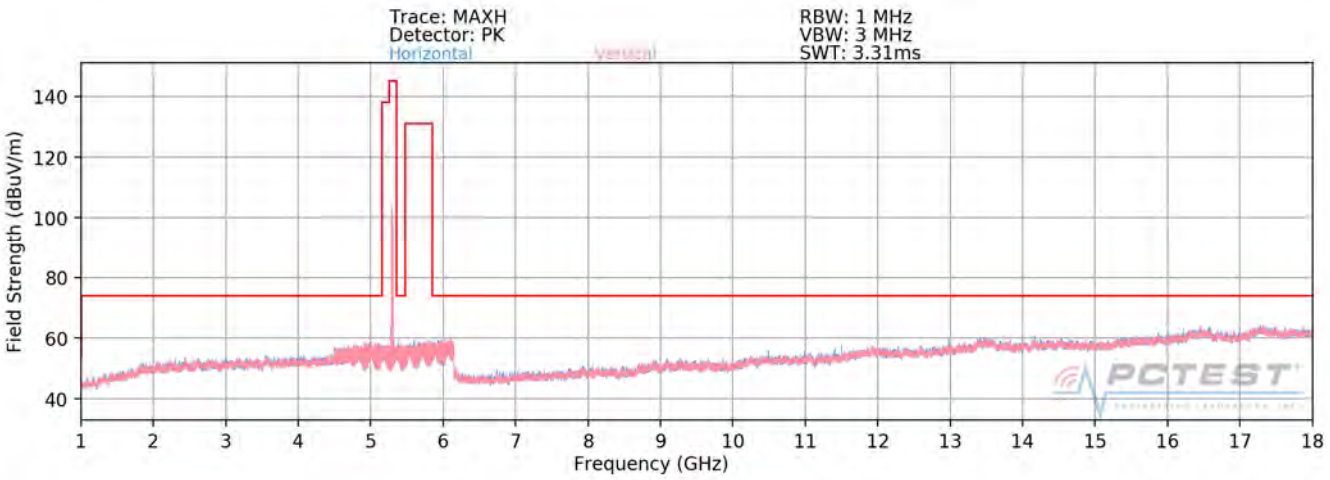
7.6.2 SISO Antenna-2 Radiated Spurious Emission Measurements

26 Tones



Plot 7-283. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U1 Ch. 40 – 26 Tones)



Plot 7-284. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2A Ch. 56 – 26 Tones)

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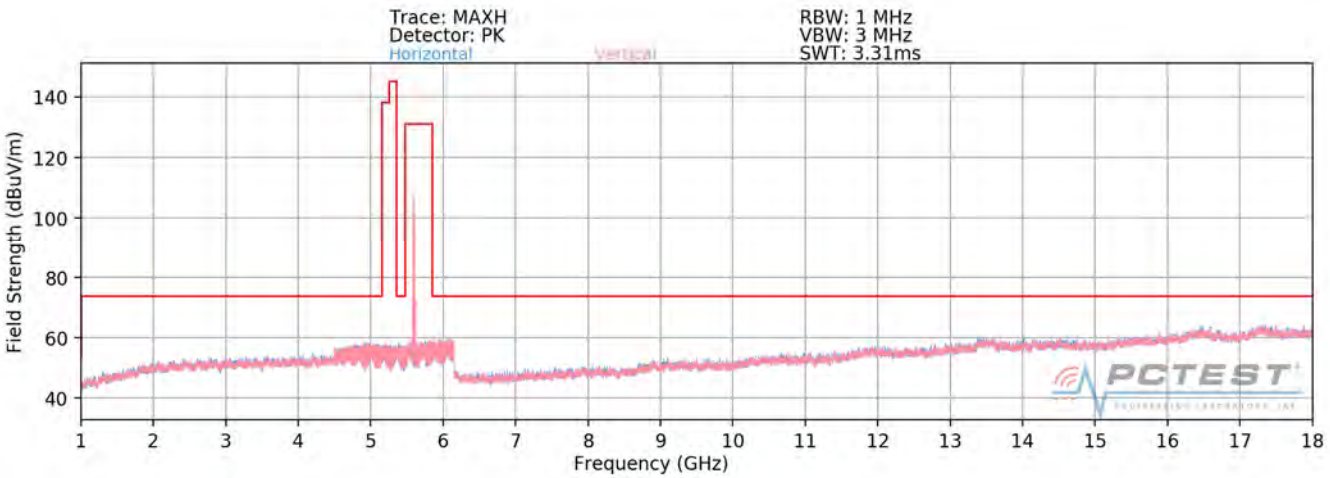
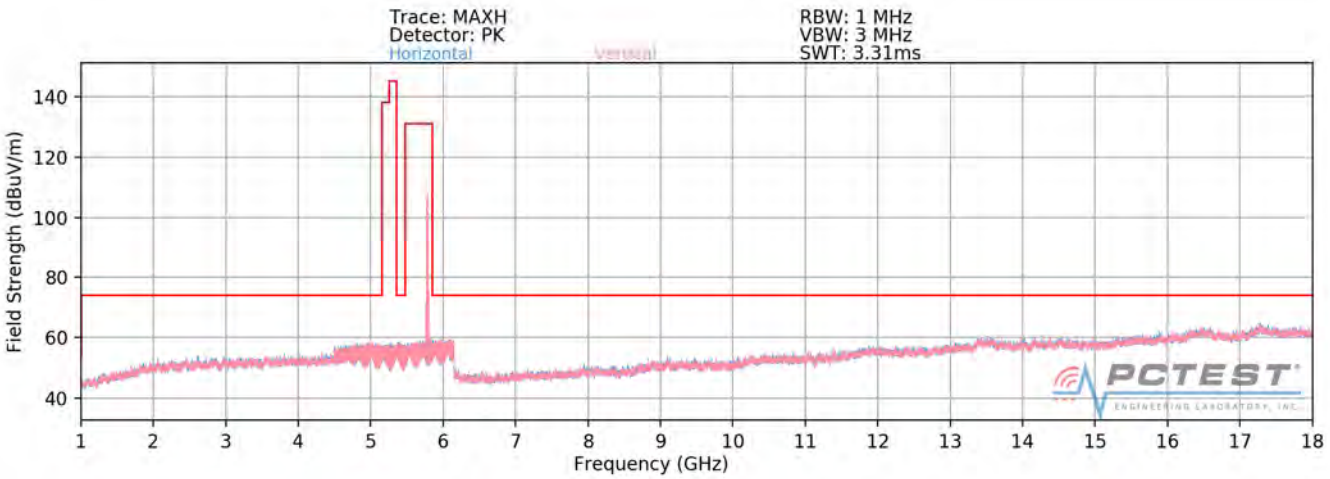


Plot 7-285. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2C Ch. 120 – 26 Tones)



Plot 7-286. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U3 Ch. 157 – 26 Tones)

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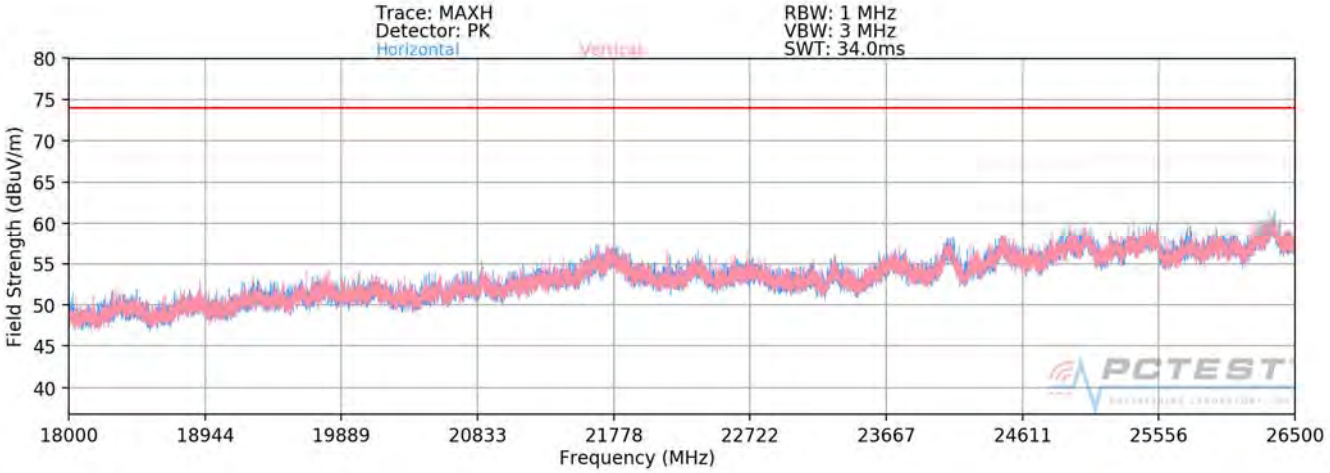
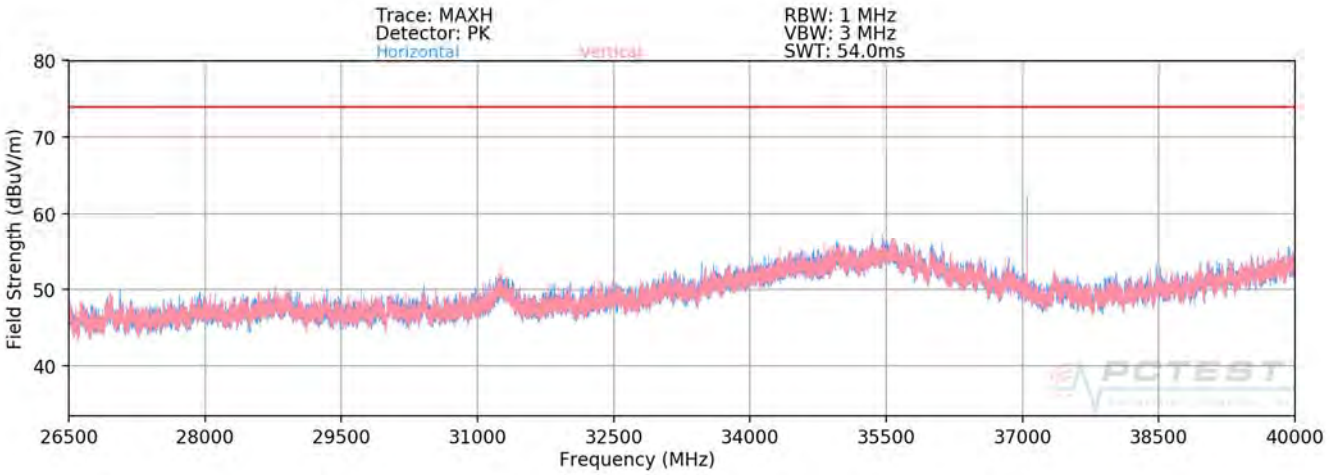
SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-287. Radiated Spurious Plot above 18GHz - 26.5GHz SISO ANT2 (802.11ax – 26 Tones)



Plot 7-288. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11ax – 26 Tones)

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SISO Antenna-2 Radiated Spurious Emission Measurements

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5180MHz
Channel: 36

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	H	-	-	-69.29	15.60	0.00	53.31	68.20	-14.89
*	15540.00	Average	H	-	-	-81.13	22.59	0.00	48.46	53.98	-5.52
*	15540.00	Peak	H	-	-	-69.89	22.59	0.00	59.70	73.98	-14.28
*	20720.00	Average	H	-	-	-77.69	17.17	-9.54	36.93	53.98	-17.05
*	20720.00	Peak	H	-	-	-66.49	17.17	-9.54	48.13	73.98	-25.85
	25900.00	Peak	H	-	-	-65.06	19.93	-9.54	52.32	68.20	-15.88

Table 7-92. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5200MHz
Channel: 40

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10400.00	Peak	H	-	-	-69.17	15.83	0.00	53.66	68.20	-14.54
*	15600.00	Average	H	-	-	-81.08	22.66	0.00	48.58	53.98	-5.40
*	15600.00	Peak	H	-	-	-69.23	22.66	0.00	60.43	73.98	-13.55
*	20800.00	Average	H	-	-	-77.63	17.65	-9.54	37.48	53.98	-16.50
*	20800.00	Peak	H	-	-	-66.61	17.65	-9.54	48.50	73.98	-25.48
	26000.00	Peak	H	-	-	-65.79	20.68	-9.54	52.35	68.20	-15.85

Table 7-93. Radiated Measurements SISO ANT2 (26 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5240MHz
Channel: 48

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10480.00	Peak	H	-	-	-69.44	15.79	0.00	53.35	68.20	-14.85
*	15720.00	Average	H	-	-	-81.09	22.96	0.00	48.87	53.98	-5.11
*	15720.00	Peak	H	-	-	-69.99	22.96	0.00	59.97	73.98	-14.01
*	20960.00	Average	H	-	-	-77.58	17.53	-9.54	37.41	53.98	-16.57
*	20960.00	Peak	H	-	-	-66.56	17.53	-9.54	48.43	73.98	-25.55
	26200.00	Peak	H	-	-	-64.76	20.23	-9.54	52.93	68.20	-15.27

Table 7-94. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5260MHz
Channel: 52

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10520.00	Peak	H	-	-	-69.80	15.97	0.00	53.17	68.20	-15.03
*	15780.00	Average	H	-	-	-81.10	22.93	0.00	48.83	53.98	-5.15
*	15780.00	Peak	H	-	-	-69.50	22.93	0.00	60.43	73.98	-13.55
*	21040.00	Average	H	-	-	-77.33	17.48	-9.54	37.60	53.98	-16.38
*	21040.00	Peak	H	-	-	-65.78	17.48	-9.54	49.15	73.98	-24.83
	26300.00	Peak	H	-	-	-64.36	20.33	-9.54	53.43	68.20	-14.77

Table 7-95. Radiated Measurements SISO ANT2 (26 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5280MHz
Channel: 56

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10560.00	Peak	H	-	-	-68.30	16.18	0.00	54.88	68.20	-13.32
*	15840.00	Average	H	-	-	-81.28	23.30	0.00	49.02	53.98	-4.96
*	15840.00	Peak	H	-	-	-69.96	23.30	0.00	60.34	73.98	-13.64
*	21120.00	Average	H	-	-	-77.35	17.27	-9.54	37.37	53.98	-16.60
*	21120.00	Peak	H	-	-	-66.26	17.27	-9.54	48.46	73.98	-25.51
	26400.00	Peak	H	-	-	-64.88	20.27	-9.54	52.85	68.20	-15.35

Table 7-96. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5320MHz
Channel: 64

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	10640.00	Average	H	-	-	-80.76	16.41	0.00	42.65	53.98	-11.33
*	10640.00	Peak	H	-	-	-69.22	16.41	0.00	54.19	73.98	-19.79
*	15960.00	Average	H	-	-	-81.31	23.41	0.00	49.10	53.98	-4.88
*	15960.00	Peak	H	-	-	-69.78	23.41	0.00	60.63	73.98	-13.35
*	21280.00	Average	H	-	-	-77.03	17.58	-9.54	38.01	53.98	-15.97
*	21280.00	Peak	H	-	-	-66.02	17.58	-9.54	49.02	73.98	-24.96
	26600.00	Peak	H	-	-	-51.96	3.11	-9.54	48.61	68.20	-19.59

Table 7-97. Radiated Measurements SISO ANT2 (26 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5500MHz
Channel: 100

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11000.00	Average	H	-	-	-80.50	17.19	0.00	43.69	53.98	-10.29
*	11000.00	Peak	H	-	-	-69.21	17.19	0.00	54.98	73.98	-19.00
	16500.00	Peak	H	-	-	-69.31	24.79	0.00	62.48	68.20	-5.72
	22000.00	Peak	H	-	-	-66.04	18.05	-9.54	49.47	68.20	-18.73
	27500.00	Peak	H	-	-	-48.67	2.08	-9.54	50.87	68.20	-17.33

Table 7-98. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5600MHz
Channel: 120

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11200.00	Average	H	-	-	-80.31	16.89	0.00	43.58	53.98	-10.40
*	11200.00	Peak	H	-	-	-68.02	16.89	0.00	55.87	73.98	-18.11
	16800.00	Peak	H	-	-	-69.90	24.53	0.00	61.63	68.20	-6.57
*	22400.00	Average	H	-	-	-77.72	19.05	-9.54	38.79	53.98	-15.19
*	22400.00	Peak	H	-	-	-66.87	19.05	-9.54	49.64	73.98	-24.34
	28000.00	Peak	H	-	-	-49.58	3.19	-9.54	51.06	68.20	-17.14

Table 7-99. Radiated Measurements SISO ANT2 (26 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5720MHz
Channel: 144

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11440.00	Average	H	136	2	-80.71	17.81	0.00	44.10	53.98	-9.88
*	11440.00	Peak	H	136	2	-68.33	17.81	0.00	56.48	73.98	-17.50
	17160.00	Peak	H	-	-	-70.03	24.98	0.00	61.95	68.20	-6.25
*	22880.00	Average	H	-	-	-77.84	18.60	-9.54	38.21	53.98	-15.77
*	22880.00	Peak	H	-	-	-66.83	18.60	-9.54	49.22	73.98	-24.76
	28600.00	Peak	H	-	-	-49.27	1.74	-9.54	49.92	68.20	-18.28

Table 7-100. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5745MHz
Channel: 149

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11490.00	Average	H	117	30	-79.73	17.61	0.00	44.88	53.98	-9.10
*	11490.00	Peak	H	117	30	-68.14	17.61	0.00	56.47	73.98	-17.51
	17235.00	Peak	H	-	-	-69.70	25.44	0.00	62.74	68.20	-5.46
*	22980.00	Average	H	-	-	-77.63	18.46	-9.54	38.29	53.98	-15.69
*	22980.00	Peak	H	-	-	-65.71	18.46	-9.54	50.21	73.98	-23.77
	28725.00	Peak	H	-	-	-50.32	2.47	-9.54	49.61	68.20	-18.59

Table 7-101. Radiated Measurements SISO ANT2 (26 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5785MHz
Channel: 157

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11570.00	Average	H	154	1	-79.30	17.67	0.00	45.37	53.98	-8.61
*	11570.00	Peak	H	154	1	-68.41	17.67	0.00	56.26	73.98	-17.72
	17355.00	Peak	H	168	50	-69.38	26.58	0.00	64.20	68.20	-4.00
	23140.00	Peak	H	-	-	-65.83	18.84	-9.54	50.47	68.20	-17.73
	28925.00	Peak	H	-	-	-50.44	2.80	-9.54	49.82	68.20	-18.38

Table 7-102. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5825MHz
Channel: 165

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11650.00	Average	H	125	27	-78.82	17.69	0.00	45.87	53.98	-8.11
*	11650.00	Peak	H	125	27	-67.37	17.69	0.00	57.32	73.98	-16.66
	17475.00	Peak	H	-	-	-69.57	26.26	0.00	63.69	68.20	-4.51
	23300.00	Peak	H	-	-	-66.24	19.55	-9.54	50.76	68.20	-17.44
	29125.00	Peak	H	-	-	-49.87	1.07	-9.54	48.66	68.20	-19.54

Table 7-103. Radiated Measurements SISO ANT2 (26 Tones)

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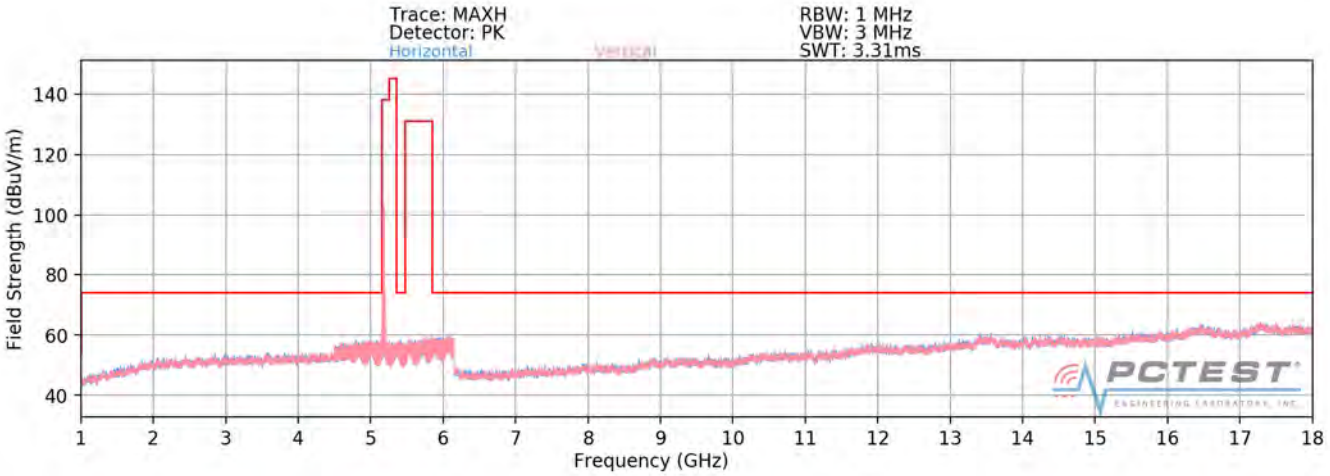
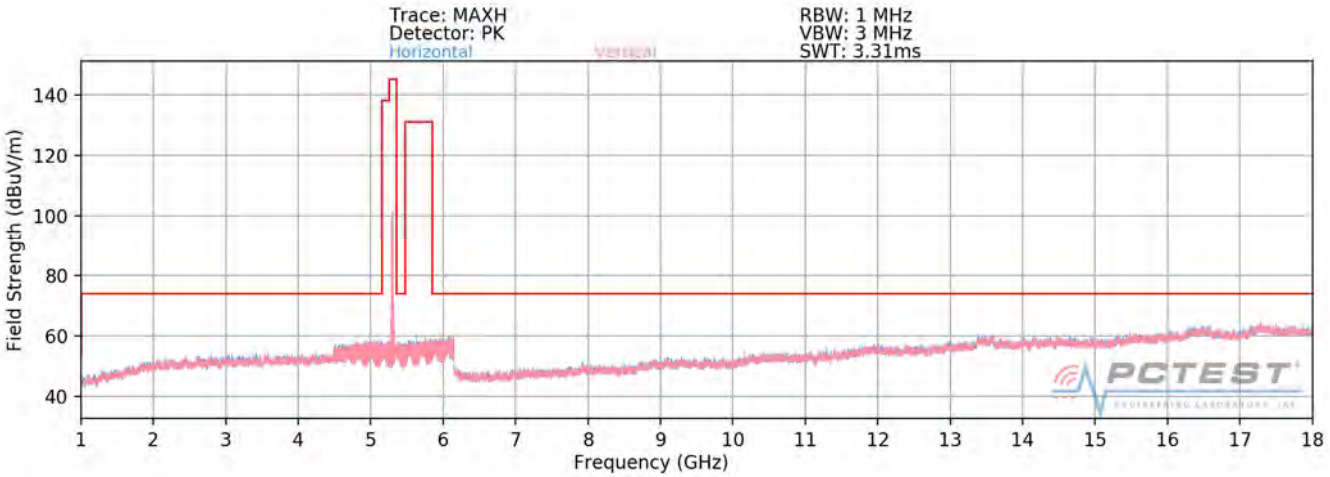
242 Tones



Plot 7-289. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U1 Ch. 40 – 242 Tones)



Plot 7-290. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2A Ch. 56 – 242 Tones)

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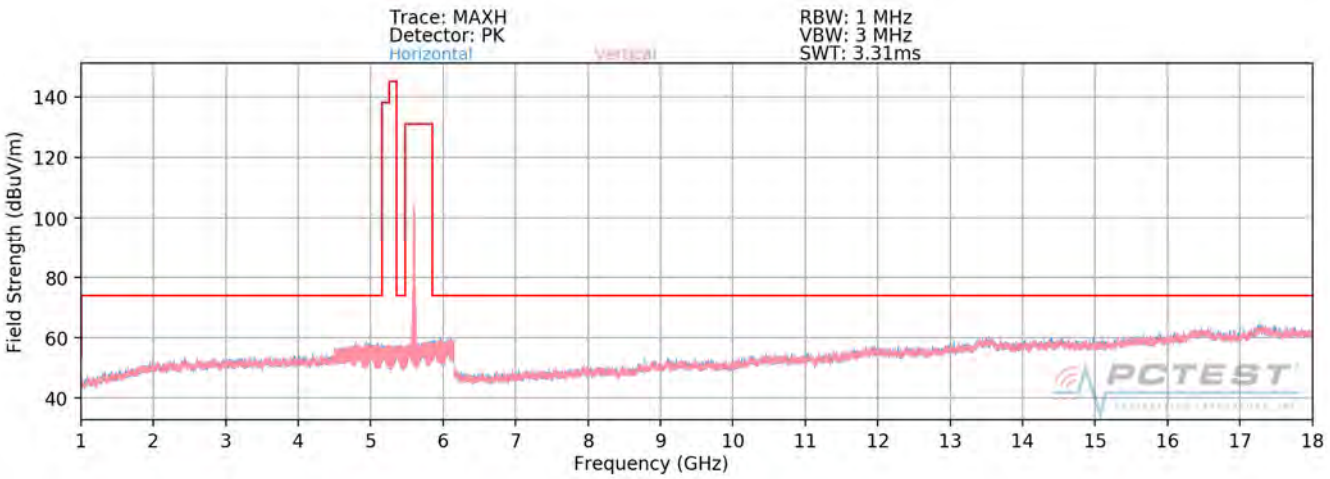
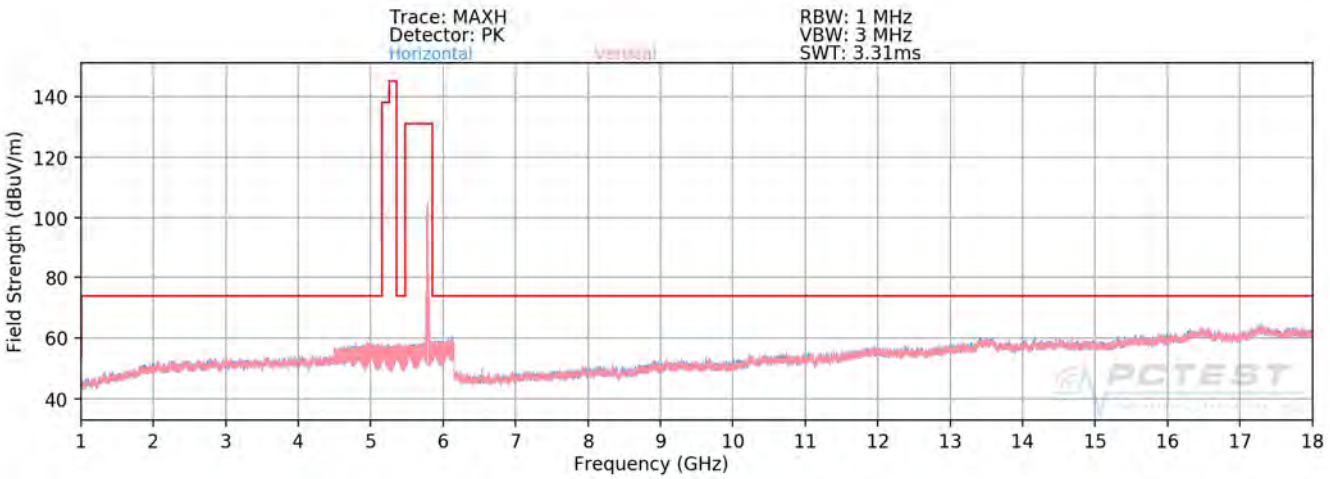


Plot 7-291. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2C Ch. 120 – 242 Tones)



Plot 7-292. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U3 Ch. 157 – 242 Tones)

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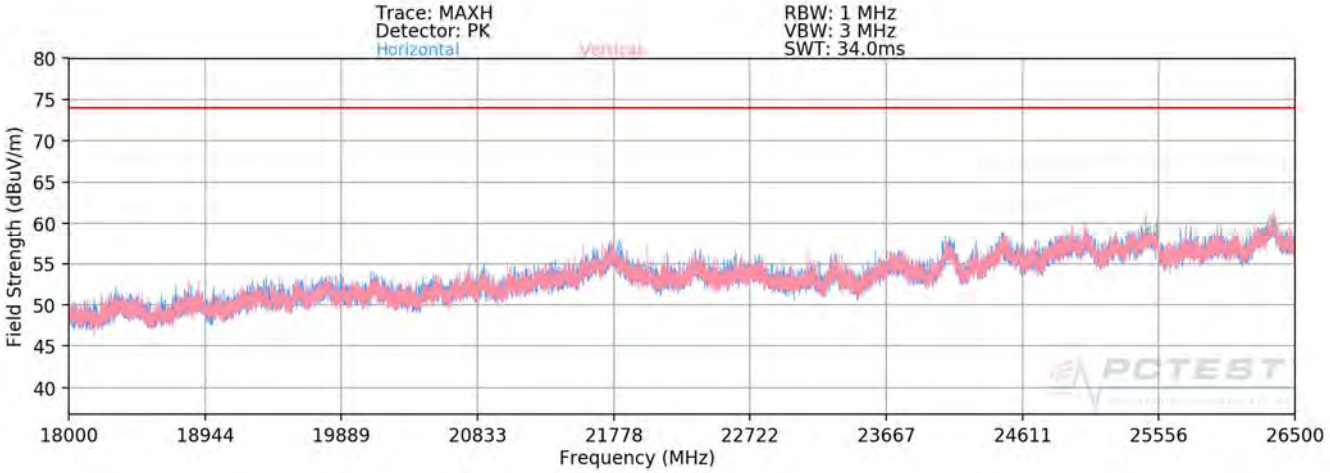
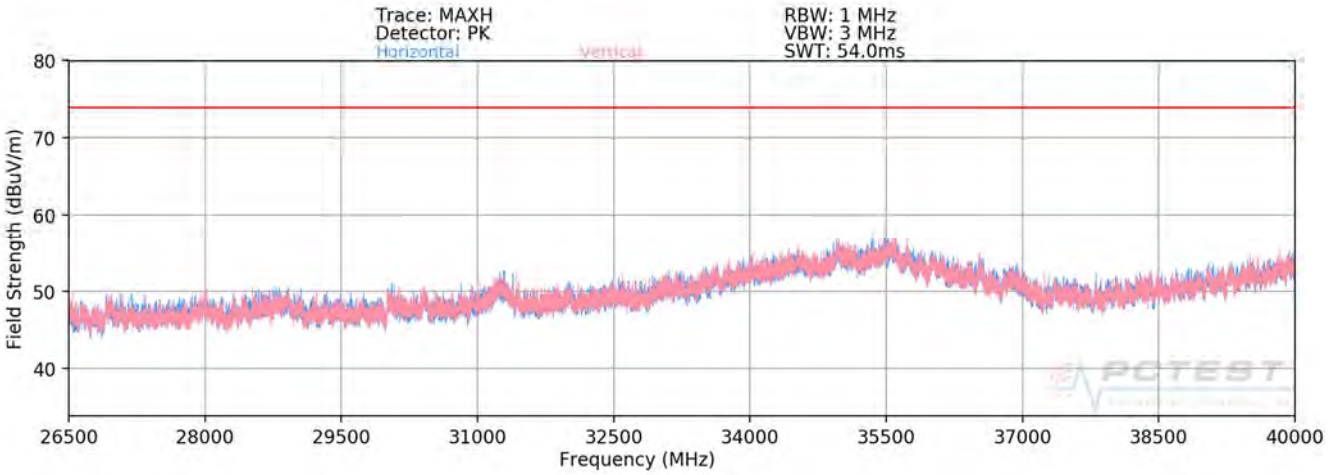
SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-293. Radiated Spurious Plot above 18GHz - 26.5GHz SISO ANT2 (802.11ax – 242 Tones)



Plot 7-294. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11ax – 242 Tones)

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SISO Antenna-2 Radiated Spurious Emission Measurements

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5180MHz
Channel: 36

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	H	114	305	-68.14	12.74	0.00	51.60	68.20	-16.60
*	15540.00	Average	H	-	-	-79.60	15.28	0.00	42.68	53.98	-11.30
*	15540.00	Peak	H	-	-	-69.50	15.28	0.00	52.78	73.98	-21.20
*	20720.00	Average	H	-	-	-78.06	17.17	-9.54	36.56	53.98	-17.42
*	20720.00	Peak	H	-	-	-67.29	17.17	-9.54	47.33	73.98	-26.65
	25900.00	Peak	H	-	-	-65.74	19.93	-9.54	51.64	68.20	-16.56

Table 7-104. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5200MHz
Channel: 40

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10400.00	Peak	H	-	-	-68.41	12.24	0.00	50.83	68.20	-17.37
*	15600.00	Average	H	-	-	-79.58	15.40	0.00	42.82	53.98	-11.15
*	15600.00	Peak	H	-	-	-69.69	15.40	0.00	52.71	73.98	-21.26
*	20800.00	Average	H	-	-	-78.15	17.65	-9.54	36.96	53.98	-17.02
*	20800.00	Peak	H	-	-	-67.29	17.65	-9.54	47.82	73.98	-26.16
	26000.00	Peak	H	-	-	-65.58	20.68	-9.54	52.56	68.20	-15.64

Table 7-105. Radiated Measurements SISO ANT2 (242 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5240MHz
Channel: 48

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10480.00	Peak	H	-	-	-68.45	12.41	0.00	50.96	68.20	-17.24
*	15720.00	Average	H	-	-	-79.84	16.70	0.00	43.86	53.98	-10.12
*	15720.00	Peak	H	-	-	-69.48	16.70	0.00	54.22	73.98	-19.76
*	20960.00	Average	H	-	-	-78.37	17.53	-9.54	36.62	53.98	-17.36
*	20960.00	Peak	H	-	-	-67.22	17.53	-9.54	47.77	73.98	-26.21
	26200.00	Peak	H	-	-	-66.03	20.23	-9.54	51.66	68.20	-16.54

Table 7-106. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5260MHz
Channel: 52

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10520.00	Peak	H	-	-	-68.13	13.16	0.00	52.03	68.20	-16.17
*	15780.00	Average	H	-	-	-79.74	16.21	0.00	43.47	53.98	-10.51
*	15780.00	Peak	H	-	-	-69.65	16.21	0.00	53.56	73.98	-20.42
*	21040.00	Average	H	-	-	-77.76	17.48	-9.54	37.17	53.98	-16.81
*	21040.00	Peak	H	-	-	-66.84	17.48	-9.54	48.09	73.98	-25.89
	26300.00	Peak	H	-	-	-65.57	20.33	-9.54	52.22	68.20	-15.98

Table 7-107. Radiated Measurements SISO ANT2 (242 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5280MHz
Channel: 56

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10560.00	Peak	H	-	-	-67.79	13.66	0.00	52.87	68.20	-15.33
*	15840.00	Average	H	-	-	-79.50	15.64	0.00	43.14	53.98	-10.84
*	15840.00	Peak	H	-	-	-68.67	15.64	0.00	53.97	73.98	-20.01
*	21120.00	Average	H	-	-	-77.68	17.27	-9.54	37.04	53.98	-16.93
*	21120.00	Peak	H	-	-	-66.64	17.27	-9.54	48.08	73.98	-25.89
	26400.00	Peak	H	-	-	-65.40	20.27	-9.54	52.33	68.20	-15.87

Table 7-108. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5320MHz
Channel: 64

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	10640.00	Average	H	-	-	-79.13	14.15	0.00	42.02	53.98	-11.96
*	10640.00	Peak	H	-	-	-68.81	14.15	0.00	52.34	73.98	-21.64
*	15960.00	Average	H	-	-	-79.71	15.01	0.00	42.30	53.98	-11.68
*	15960.00	Peak	H	-	-	-69.94	15.01	0.00	52.07	73.98	-21.91
*	21280.00	Average	H	-	-	-77.25	17.58	-9.54	37.79	53.98	-16.19
*	21280.00	Peak	H	-	-	-66.39	17.58	-9.54	48.65	73.98	-25.33
	26600.00	Peak	H	-	-	-52.51	3.11	-9.54	48.06	68.20	-20.14

Table 7-109. Radiated Measurements SISO ANT2 (242 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5500MHz
Channel: 100

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11000.00	Average	H	-	-	-79.35	13.55	0.00	41.20	53.98	-12.78
*	11000.00	Peak	H	-	-	-69.54	13.55	0.00	51.01	73.98	-22.97
	16500.00	Peak	H	-	-	-69.49	16.10	0.00	53.61	68.20	-14.59
	22000.00	Peak	H	-	-	-66.58	18.05	-9.54	48.93	68.20	-19.27
	27500.00	Peak	H	-	-	-47.99	2.08	-9.54	51.55	68.20	-16.65

Table 7-110. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5600MHz
Channel: 120

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11200.00	Average	H	111	7	-79.10	13.31	0.00	41.21	53.98	-12.77
*	11200.00	Peak	H	111	7	-68.60	13.31	0.00	51.71	73.98	-22.27
	16800.00	Peak	H	-	-	-68.96	17.53	0.00	55.57	68.20	-12.63
*	22400.00	Average	H	-	-	-77.90	19.05	-9.54	38.61	53.98	-15.37
*	22400.00	Peak	H	-	-	-66.30	19.05	-9.54	50.21	73.98	-23.77
	28000.00	Peak	H	-	-	-50.54	3.19	-9.54	50.10	68.20	-18.10

Table 7-111. Radiated Measurements SISO ANT2 (242 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5720MHz
Channel: 144

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11440.00	Average	H	120	359	-77.73	15.10	0.00	44.37	53.98	-9.61
*	11440.00	Peak	H	120	359	-67.45	15.10	0.00	54.65	73.98	-19.33
	17160.00	Peak	H	-	-	-69.02	18.83	0.00	56.81	68.20	-11.39
*	22880.00	Average	H	-	-	-78.15	18.60	-9.54	37.90	53.98	-16.08
*	22880.00	Peak	H	-	-	-66.42	18.60	-9.54	49.63	73.98	-24.35
	28600.00	Peak	H	-	-	-48.95	1.74	-9.54	50.24	68.20	-17.96

Table 7-112. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5745MHz
Channel: 149

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11490.00	Average	H	150	359	-77.88	15.22	0.00	44.34	53.98	-9.64
*	11490.00	Peak	H	150	359	-66.94	15.22	0.00	55.28	73.98	-18.70
	17235.00	Peak	H	-	-	-68.97	19.54	0.00	57.57	68.20	-10.63
*	22980.00	Average	H	-	-	-77.92	18.46	-9.54	38.00	53.98	-15.98
*	22980.00	Peak	H	-	-	-67.35	18.46	-9.54	48.57	73.98	-25.41
	28725.00	Peak	H	-	-	-49.83	2.47	-9.54	50.10	68.20	-18.10

Table 7-113. Radiated Measurements SISO ANT2 (242 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5785MHz
Channel: 157

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11570.00	Average	H	154	1	-77.98	15.02	0.00	44.04	53.98	-9.94
*	11570.00	Peak	H	154	1	-67.17	15.02	0.00	54.85	73.98	-19.13
	17355.00	Peak	H	-	-	-69.98	23.41	0.00	60.43	68.20	-7.77
	23140.00	Peak	H	-	-	-68.04	18.84	-9.54	48.26	68.20	-19.94
	28925.00	Peak	H	-	-	-50.32	2.80	-9.54	49.94	68.20	-18.26

Table 7-114. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5825MHz
Channel: 165

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11650.00	Average	H	137	352	-78.39	14.92	0.00	43.53	53.98	-10.45
*	11650.00	Peak	H	137	352	-67.04	14.92	0.00	54.88	73.98	-19.10
	17475.00	Peak	H	-	-	-69.04	21.86	0.00	59.82	68.20	-8.38
	23300.00	Peak	H	-	-	-66.76	19.55	-9.54	50.24	68.20	-17.96
	29125.00	Peak	H	-	-	-49.30	1.07	-9.54	49.23	68.20	-18.97

Table 7-115. Radiated Measurements SISO ANT2 (242 Tones)

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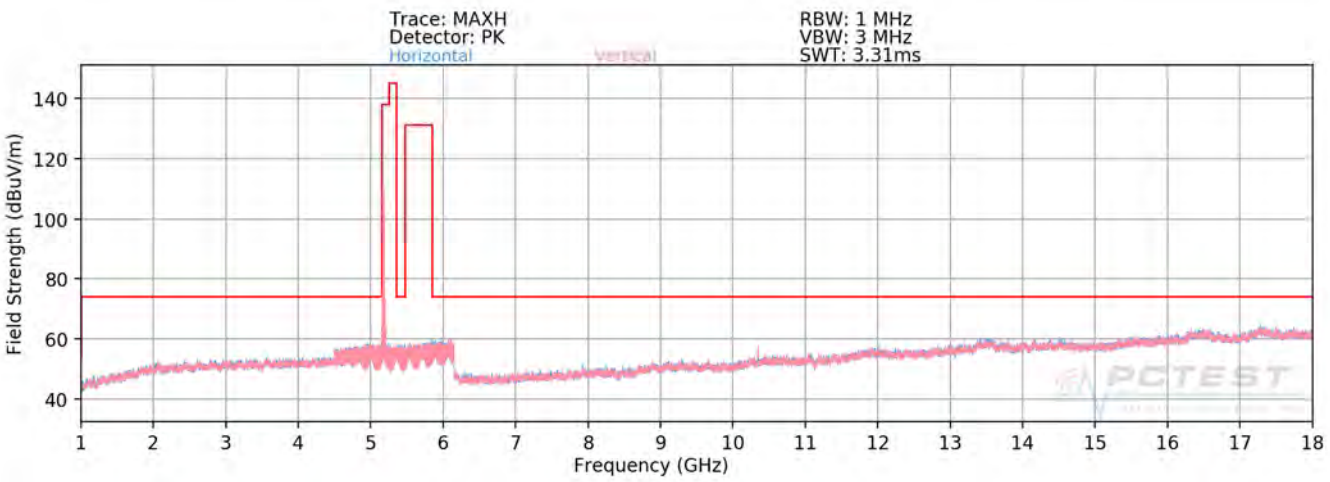
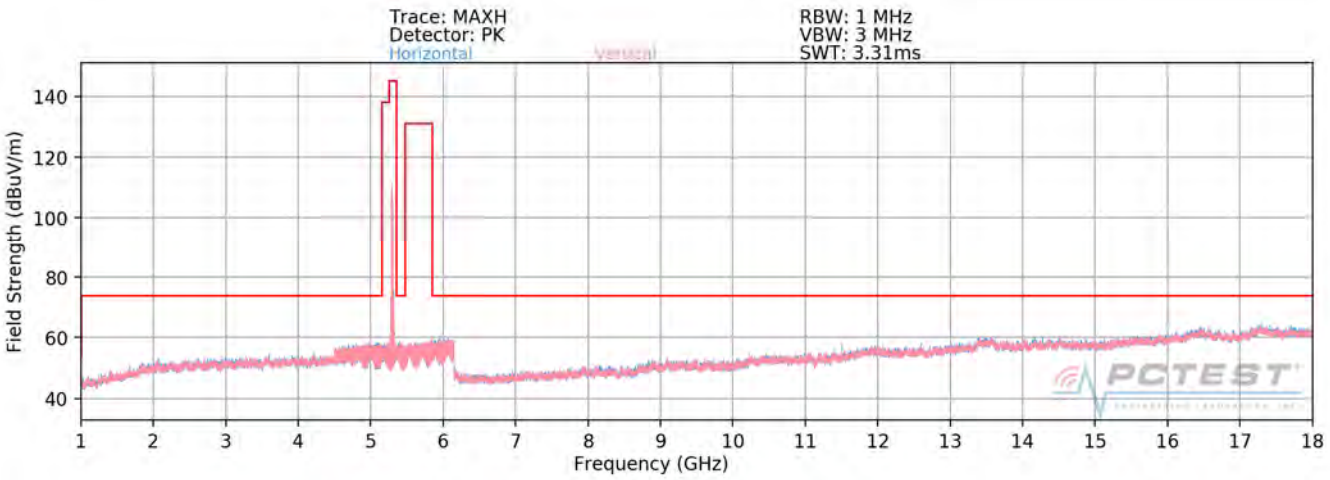
7.6.3 MIMO Radiated Spurious Emission Measurements

26 Tones



Plot 7-295. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U1 Ch. 40 – 26 Tones)



Plot 7-296. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2A Ch. 56 – 26 Tones)

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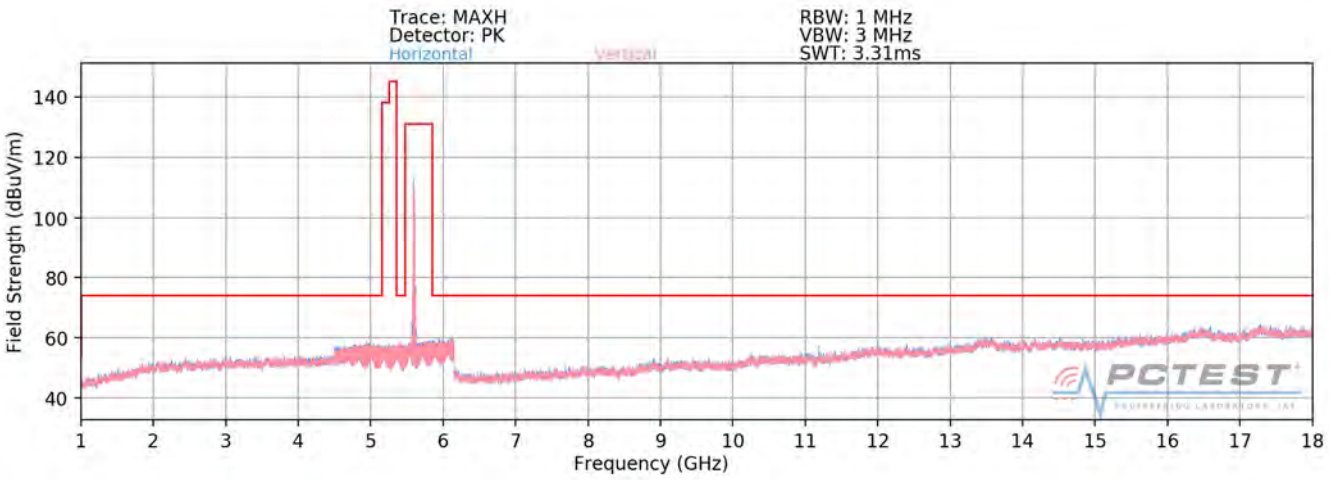
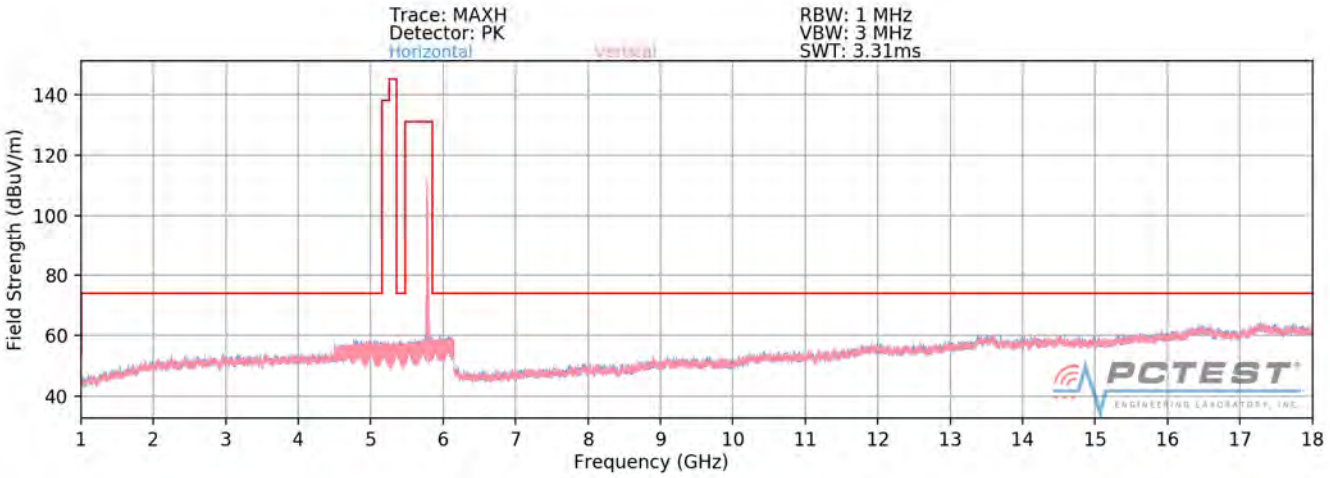


Plot 7-297. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2C Ch. 120 – 26 Tones)



Plot 7-298. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U3 Ch. 157 – 26 Tones)

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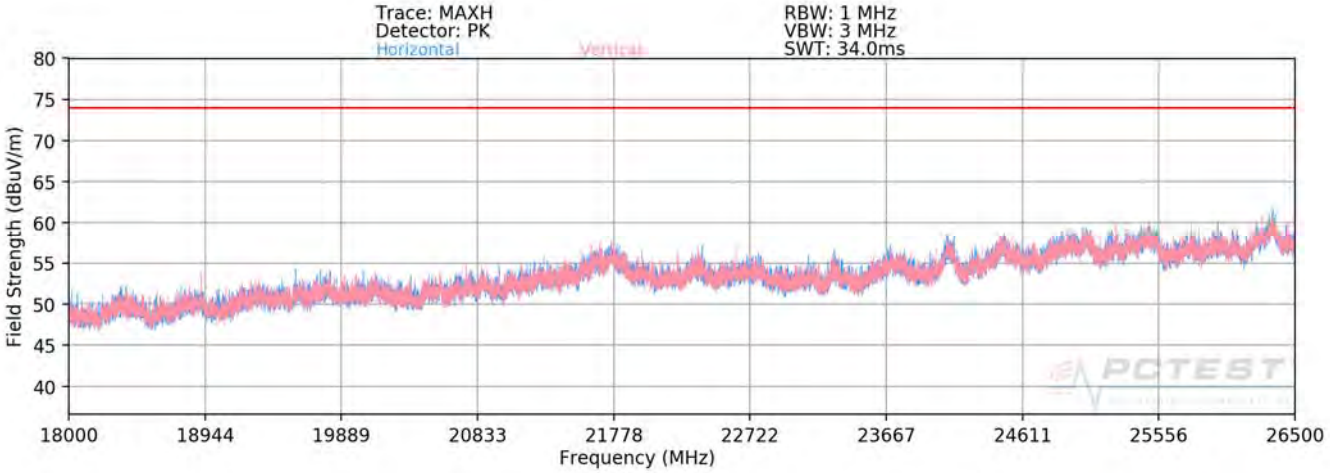
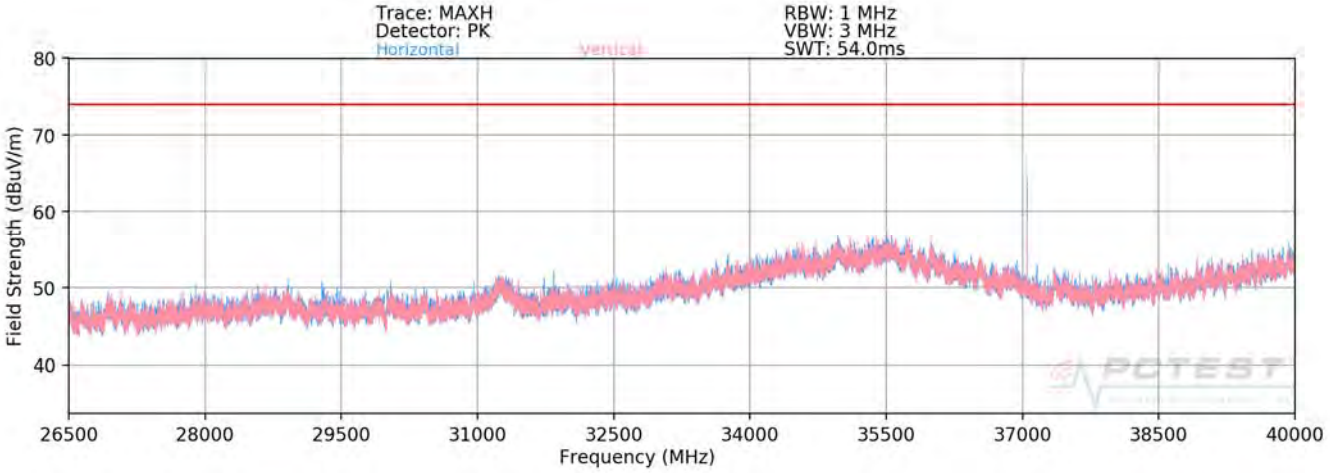
MIMO Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-299. Radiated Spurious Plot above 18GHz - 26.5GHz MIMO (802.11ax – 26 Tones)

Plot 7-300. Radiated Spurious Plot 26.5GHz - 40GHz



MIMO (802.11ax – 26 Tones)

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MIMO Radiated Spurious Emission Measurements (26 Tones)

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5180MHz
Channel: 36

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	V	135	2	-65.49	15.60	0.00	57.11	68.20	-11.09
*	15540.00	Average	V	-	-	-81.04	22.59	0.00	48.55	53.98	-5.43
*	15540.00	Peak	V	-	-	-69.30	22.59	0.00	60.29	73.98	-13.69
*	20720.00	Average	V	-	-	-77.49	17.17	-9.54	37.13	53.98	-16.85
*	20720.00	Peak	V	-	-	-65.77	17.17	-9.54	48.85	73.98	-25.13
	25900.00	Peak	V	-	-	-65.18	19.93	-9.54	52.20	68.20	-16.00

Table 7-116. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5200MHz
Channel: 40

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10400.00	Peak	V	146	7	-66.30	15.83	0.00	56.53	68.20	-11.67
*	15600.00	Average	V	-	-	-81.06	22.66	0.00	48.60	53.98	-5.38
*	15600.00	Peak	V	-	-	-69.57	22.66	0.00	60.09	73.98	-13.89
*	20800.00	Average	V	-	-	-77.85	17.65	-9.54	37.26	53.98	-16.72
*	20800.00	Peak	V	-	-	-66.17	17.65	-9.54	48.94	73.98	-25.04
	26000.00	Peak	V	-	-	-64.52	20.68	-9.54	53.62	68.20	-14.58

Table 7-117. Radiated Measurements MIMO (26 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5240MHz
Channel: 48

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10480.00	Peak	V	168	1	-68.27	15.79	0.00	54.52	68.20	-13.68
*	15720.00	Average	V	-	-	-81.08	22.96	0.00	48.88	53.98	-5.10
*	15720.00	Peak	V	-	-	-69.17	22.96	0.00	60.79	73.98	-13.19
*	20960.00	Average	V	-	-	-77.92	17.53	-9.54	37.07	53.98	-16.91
*	20960.00	Peak	V	-	-	-66.57	17.53	-9.54	48.42	73.98	-25.56
	26200.00	Peak	V	-	-	-65.14	20.23	-9.54	52.55	68.20	-15.65

Table 7-118. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5260MHz
Channel: 52

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10520.00	Peak	V	105	360	-68.32	15.97	0.00	54.65	68.20	-13.55
*	15780.00	Average	V	-	-	-81.16	22.93	0.00	48.77	53.98	-5.21
*	15780.00	Peak	V	-	-	-70.22	22.93	0.00	59.71	73.98	-14.27
*	21040.00	Average	V	-	-	-77.64	17.48	-9.54	37.29	53.98	-16.69
*	21040.00	Peak	V	-	-	-66.63	17.48	-9.54	48.30	73.98	-25.68
	26300.00	Peak	V	-	-	-64.91	20.33	-9.54	52.88	68.20	-15.32

Table 7-119. Radiated Measurements MIMO (26 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5280MHz
Channel: 56

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10560.00	Peak	V	-	-	-69.22	16.18	0.00	53.96	68.20	-14.24
*	15840.00	Average	V	-	-	-81.29	23.30	0.00	49.01	53.98	-4.97
*	15840.00	Peak	V	-	-	-70.21	23.30	0.00	60.09	73.98	-13.89
*	21120.00	Average	V	-	-	-77.42	17.27	-9.54	37.30	53.98	-16.67
*	21120.00	Peak	V	-	-	-66.40	17.27	-9.54	48.32	73.98	-25.65
	26400.00	Peak	V	-	-	-64.70	20.27	-9.54	53.03	68.20	-15.17

Table 7-120. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5320MHz
Channel: 64

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	10640.00	Average	V	-	-	-80.77	16.41	0.00	42.64	53.98	-11.34
*	10640.00	Peak	V	-	-	-69.66	16.41	0.00	53.75	73.98	-20.23
*	15960.00	Average	V	-	-	-81.32	23.41	0.00	49.09	53.98	-4.89
*	15960.00	Peak	V	-	-	-69.76	23.41	0.00	60.65	73.98	-13.33
*	21280.00	Average	V	-	-	-77.35	17.58	-9.54	37.69	53.98	-16.29
*	21280.00	Peak	V	-	-	-65.33	17.58	-9.54	49.71	73.98	-24.27
	26600.00	Peak	V	-	-	-52.51	3.11	-9.54	48.06	68.20	-20.14

Table 7-121. Radiated Measurements MIMO (26 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5500MHz
Channel: 100

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11000.00	Average	V	-	-	-80.27	17.19	0.00	43.92	53.98	-10.06
*	11000.00	Peak	V	-	-	-68.96	17.19	0.00	55.23	73.98	-18.75
	16500.00	Peak	V	-	-	-69.67	24.79	0.00	62.12	68.20	-6.08
	22000.00	Peak	V	-	-	-66.58	18.05	-9.54	48.93	68.20	-19.27
	27500.00	Peak	V	-	-	-48.44	2.08	-9.54	51.10	68.20	-17.10

Table 7-122. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5600MHz
Channel: 120

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11200.00	Average	V	201	3	-79.26	16.89	0.00	44.63	53.98	-9.35
*	11200.00	Peak	V	201	3	-67.65	16.89	0.00	56.24	73.98	-17.74
	16800.00	Peak	V	-	-	-70.01	24.53	0.00	61.52	68.20	-6.68
*	22400.00	Average	V	-	-	-77.82	19.05	-9.54	38.69	53.98	-15.29
*	22400.00	Peak	V	-	-	-66.87	19.05	-9.54	49.64	73.98	-24.34
	28000.00	Peak	V	-	-	-51.13	3.19	-9.54	49.51	68.20	-18.69

Table 7-123. Radiated Measurements MIMO (26 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5720MHz
Channel: 144

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11440.00	Average	V	180	2	-80.45	17.81	0.00	44.36	53.98	-9.62
*	11440.00	Peak	V	180	2	-68.06	17.81	0.00	56.75	73.98	-17.23
	17160.00	Peak	V	-	-	-69.78	24.98	0.00	62.20	68.20	-6.00
*	22880.00	Average	V	-	-	-78.08	18.60	-9.54	37.97	53.98	-16.01
*	22880.00	Peak	V	-	-	-66.99	18.60	-9.54	49.06	73.98	-24.92
	28600.00	Peak	V	-	-	-49.59	1.74	-9.54	49.60	68.20	-18.60

Table 7-124. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5745MHz
Channel: 149

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11490.00	Average	V	147	48	-79.21	17.61	0.00	45.40	53.98	-8.58
*	11490.00	Peak	V	147	48	-67.85	17.61	0.00	56.76	73.98	-17.22
	17235.00	Peak	V	-	-	-69.94	25.44	0.00	62.50	68.20	-5.70
*	22980.00	Average	V	-	-	-77.55	18.46	-9.54	38.37	53.98	-15.61
*	22980.00	Peak	V	-	-	-66.53	18.46	-9.54	49.39	73.98	-24.59
	28725.00	Peak	V	-	-	-49.54	2.47	-9.54	50.39	69.20	-18.81

Table 7-125. Radiated Measurements MIMO (26 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5785MHz
Channel: 157

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11570.00	Average	V	135	56	-80.61	17.67	0.00	44.06	53.98	-9.92
*	11570.00	Peak	V	135	56	-68.92	17.67	0.00	55.75	73.98	-18.23
	17355.00	Peak	V	-	-	-69.70	26.58	0.00	63.88	68.20	-4.32
	23140.00	Peak	V	-	-	-66.23	18.84	-9.54	50.07	68.20	-18.13
	28925.00	Peak	V	-	-	-49.59	2.80	-9.54	50.67	68.20	-17.53

Table 7-126. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 4
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5825MHz
Channel: 165

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11650.00	Average	V	174	15	-80.76	17.69	0.00	43.93	53.98	-10.05
*	11650.00	Peak	V	174	15	-69.53	17.69	0.00	55.16	73.98	-18.82
	17475.00	Peak	V	-	-	-70.26	26.26	0.00	63.00	68.20	-5.20
	23300.00	Peak	V	-	-	-67.16	19.55	-9.54	49.84	68.20	-18.36
	29125.00	Peak	V	-	-	-48.99	1.07	-9.54	49.54	68.20	-18.66

Table 7-127. Radiated Measurements MIMO (26 Tones)

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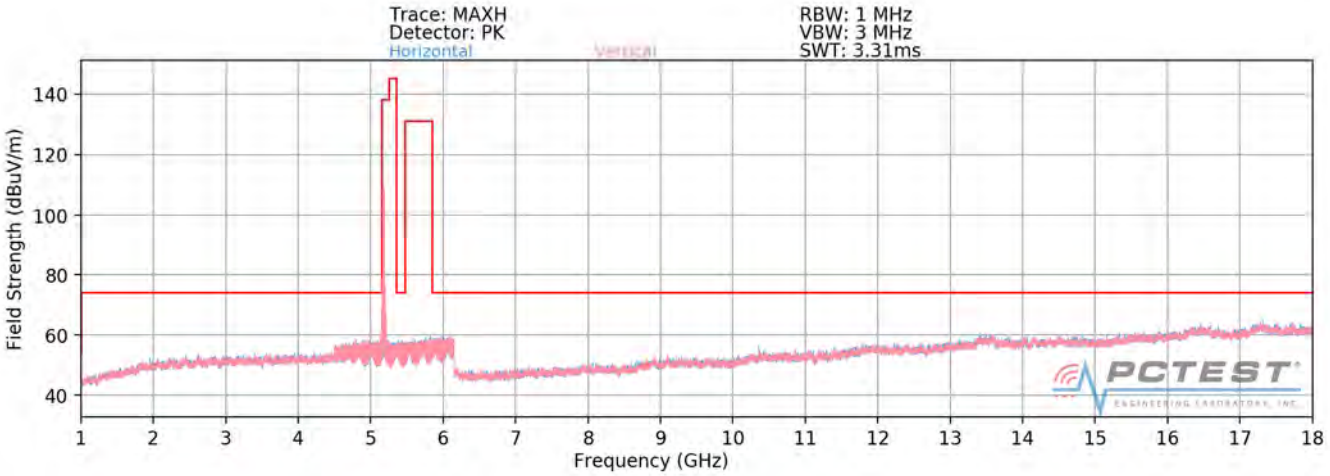
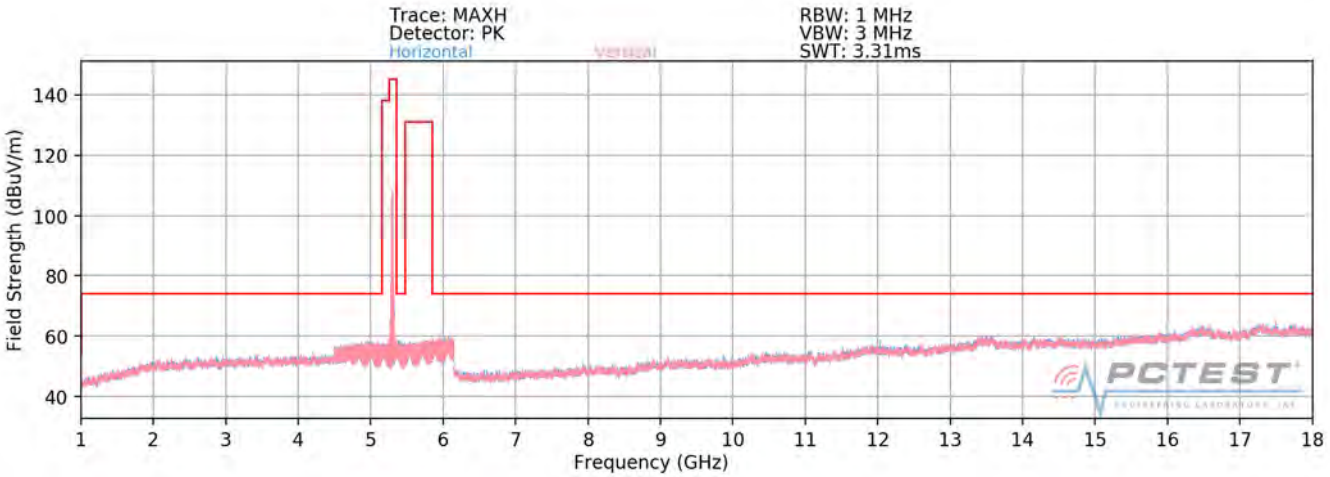
242 Tones



Plot 7-301. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U1 Ch. 40 – 242 Tones)



Plot 7-302. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2A Ch. 56 – 242 Tones)

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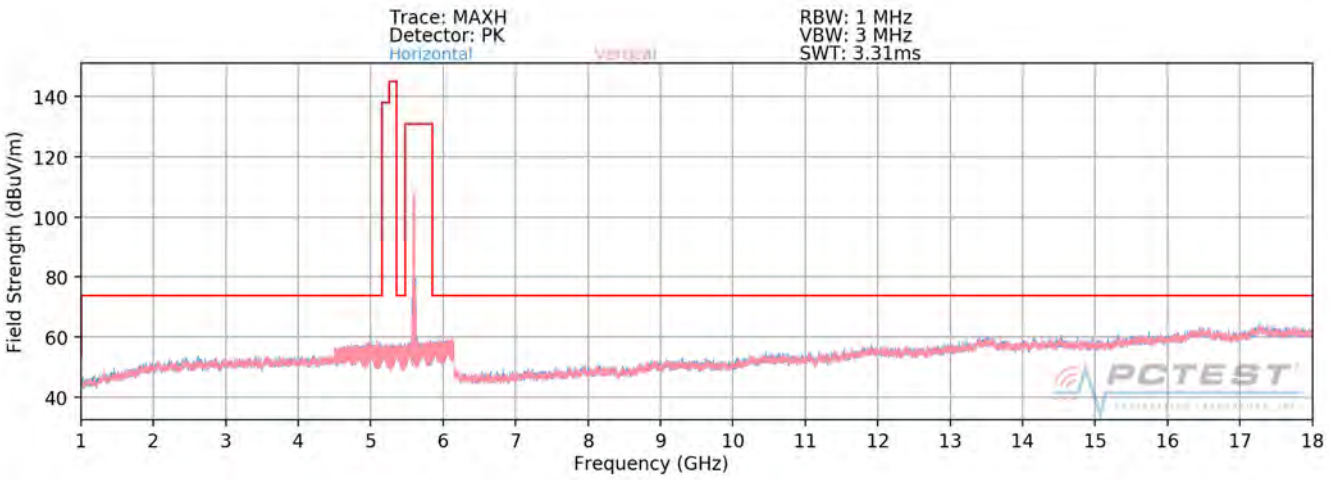
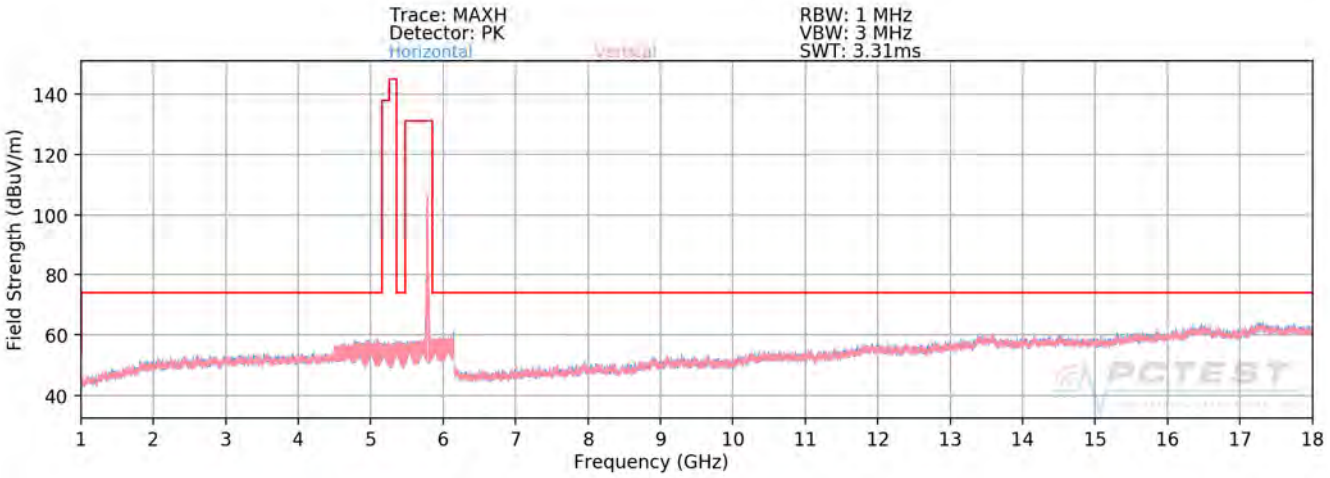


Plot 7-303. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2C Ch. 120 – 242 Tones)



Plot 7-304. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U3 Ch. 157 – 242 Tones)

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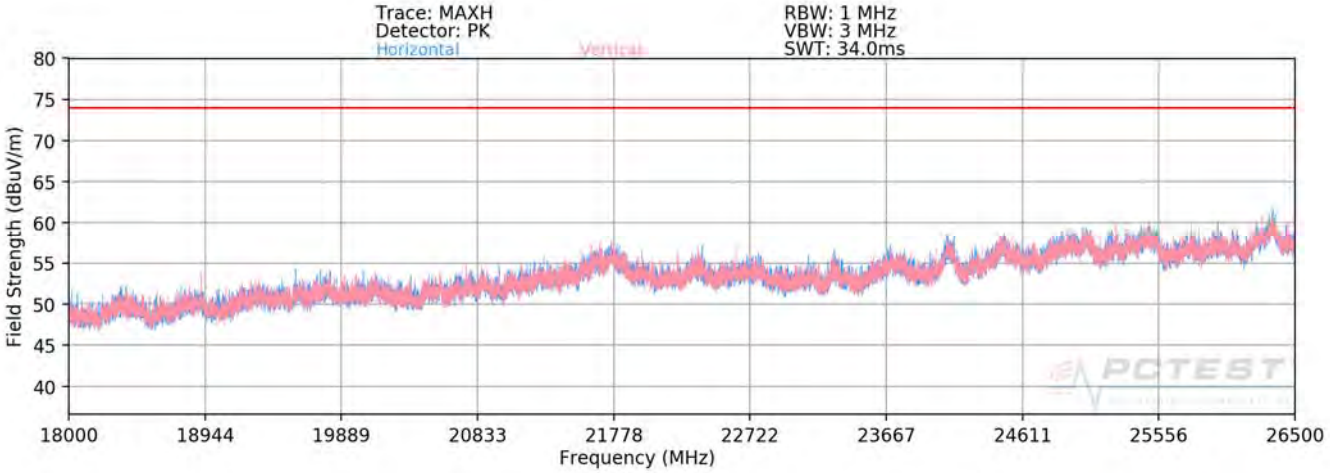
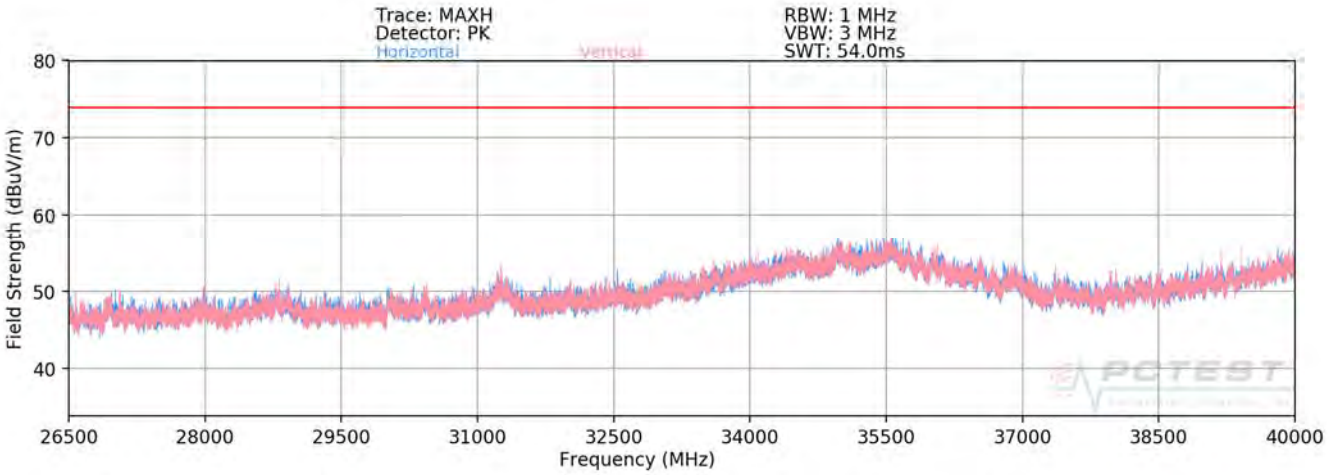
MIMO Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-305. Radiated Spurious Plot above 18GHz - 26.5GHz MIMO (802.11ax – 242 Tones)



Plot 7-306. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax – 242 Tones)

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MIMO Radiated Spurious Emission Measurements (242 Tones)

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5180MHz
Channel: 36

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	V	146	2	-67.27	15.60	0.00	55.33	68.20	-12.87
*	15540.00	Average	V	-	-	-81.08	22.59	0.00	48.51	53.98	-5.47
*	15540.00	Peak	V	-	-	-68.95	22.59	0.00	60.64	73.98	-13.34
*	20720.00	Average	V	-	-	-77.72	17.17	-9.54	36.90	53.98	-17.08
*	20720.00	Peak	V	-	-	-66.92	17.17	-9.54	47.70	73.98	-26.28
	25900.00	Peak	V	-	-	-64.96	19.93	-9.54	52.42	68.20	-15.78

Table 7-128. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5200MHz
Channel: 40

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10400.00	Peak	V	264	3	-67.38	15.83	0.00	55.45	68.20	-12.75
*	15600.00	Average	V	-	-	-81.13	22.66	0.00	48.53	53.98	-5.45
*	15600.00	Peak	V	-	-	-69.11	22.66	0.00	60.55	73.98	-13.43
*	20800.00	Average	V	-	-	-78.04	17.65	-9.54	37.07	53.98	-16.91
*	20800.00	Peak	V	-	-	-66.72	17.65	-9.54	48.39	73.98	-25.59
	26000.00	Peak	V	-	-	-66.22	20.68	-9.54	51.92	68.20	-16.28

Table 7-129. Radiated Measurements MIMO (242 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5240MHz
Channel: 48

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10480.00	Peak	V	117	4	-68.58	15.79	0.00	54.21	68.20	-13.99
*	15720.00	Average	V	-	-	-81.15	22.96	0.00	48.81	53.98	-5.17
*	15720.00	Peak	V	-	-	-69.85	22.96	0.00	60.11	73.98	-13.87
*	20960.00	Average	V	-	-	-77.87	17.53	-9.54	37.12	53.98	-16.86
*	20960.00	Peak	V	-	-	-67.12	17.53	-9.54	47.87	73.98	-26.11
	26200.00	Peak	V	-	-	-65.90	20.23	-9.54	51.79	68.20	-16.41

Table 7-130. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5260MHz
Channel: 52

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10520.00	Peak	V	-	-	-68.35	15.97	0.00	54.62	68.20	-13.58
*	15780.00	Average	V	-	-	-81.14	22.93	0.00	48.79	53.98	-5.19
*	15780.00	Peak	V	-	-	-69.33	22.93	0.00	60.60	73.98	-13.38
*	21040.00	Average	V	-	-	-78.13	17.48	-9.54	36.80	53.98	-17.18
*	21040.00	Peak	V	-	-	-66.92	17.48	-9.54	48.01	73.98	-25.97
	26300.00	Peak	V	-	-	-65.47	20.33	-9.54	52.32	68.20	-15.88

Table 7-131. Radiated Measurements MIMO (242 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5280MHz
Channel: 56

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10560.00	Peak	V	-	-	-69.29	16.18	0.00	53.89	68.20	-14.31
*	15840.00	Average	V	-	-	-81.33	23.30	0.00	48.97	53.98	-5.01
*	15840.00	Peak	V	-	-	-70.62	23.30	0.00	59.68	73.98	-14.30
*	21120.00	Average	V	-	-	-77.62	17.27	-9.54	37.10	53.98	-16.87
*	21120.00	Peak	V	-	-	-66.44	17.27	-9.54	48.28	73.98	-25.69
	26400.00	Peak	V	-	-	-65.44	20.27	-9.54	52.29	68.20	-15.91

Table 7-132. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5320MHz
Channel: 64

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	10640.00	Average	V	-	-	-80.78	16.41	0.00	42.63	53.98	-11.35
*	10640.00	Peak	V	-	-	-69.56	16.41	0.00	53.85	73.98	-20.13
*	15960.00	Average	V	-	-	-81.50	23.41	0.00	48.91	53.98	-5.07
*	15960.00	Peak	V	-	-	-70.44	23.41	0.00	59.97	73.98	-14.01
*	21280.00	Average	V	-	-	-77.36	17.58	-9.54	37.68	53.98	-16.30
*	21280.00	Peak	V	-	-	-65.94	17.58	-9.54	49.10	73.98	-24.88
	26600.00	Peak	V	-	-	-51.79	3.11	-9.54	48.78	68.20	-19.42

Table 7-133. Radiated Measurements MIMO (242 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5500MHz
Channel: 100

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11000.00	Average	V	-	-	-80.35	17.19	0.00	43.84	53.98	-10.14
*	11000.00	Peak	V	-	-	-68.65	17.19	0.00	55.54	73.98	-18.44
	16500.00	Peak	V	-	-	-69.38	24.79	0.00	62.41	68.20	-5.79
	22000.00	Peak	V	-	-	-67.25	18.05	-9.54	48.26	68.20	-19.94
	27500.00	Peak	V	-	-	-50.45	2.08	-9.54	49.09	68.20	-19.11

Table 7-134. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5600MHz
Channel: 120

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11200.00	Average	V	223	364	-79.76	16.89	0.00	44.13	53.98	-9.85
*	11200.00	Peak	V	223	364	-67.98	16.89	0.00	55.91	73.98	-18.07
	16800.00	Peak	V	-	-	-69.60	24.53	0.00	61.93	68.20	-6.27
*	22400.00	Average	V	-	-	-77.88	19.05	-9.54	38.63	53.98	-15.35
*	22400.00	Peak	V	-	-	-67.12	19.05	-9.54	49.39	73.98	-24.59
	28000.00	Peak	V	-	-	-50.11	3.19	-9.54	50.53	68.20	-17.67

Table 7-135. Radiated Measurements MIMO (242 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5720MHz
Channel: 144

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11440.00	Average	V	-	-	-80.72	17.81	0.00	44.09	53.98	-9.89
*	11440.00	Peak	V	-	-	-68.89	17.81	0.00	55.92	73.98	-18.06
	17160.00	Peak	V	-	-	-70.06	24.98	0.00	61.92	68.20	-6.28
*	22880.00	Average	V	-	-	-78.52	18.60	-9.54	37.53	53.98	-16.45
*	22880.00	Peak	V	-	-	-66.70	18.60	-9.54	49.35	73.98	-24.63
	28600.00	Peak	V	-	-	-49.44	1.74	-9.54	49.75	68.20	-18.45

Table 7-136. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5745MHz
Channel: 149

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11490.00	Average	V	-	-	-80.86	17.61	0.00	43.75	53.98	-10.23
*	11490.00	Peak	V	-	-	-69.52	17.61	0.00	55.09	73.98	-18.89
	17235.00	Peak	V	-	-	-70.15	25.44	0.00	62.29	68.20	-5.91
*	22980.00	Average	V	-	-	-77.76	18.46	-9.54	38.16	53.98	-15.82
*	22980.00	Peak	V	-	-	-66.85	18.46	-9.54	49.07	73.98	-24.91
	28725.00	Peak	V	-	-	-50.71	2.47	-9.54	49.22	69.20	-19.98

Table 7-137. Radiated Measurements MIMO (242 Tones)

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Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5785MHz
Channel: 157

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11570.00	Average	V	-	-	-80.73	17.67	0.00	43.94	53.98	-10.04
*	11570.00	Peak	V	-	-	-69.30	17.67	0.00	55.37	73.98	-18.61
	17355.00	Peak	V	-	-	-70.27	26.58	0.00	63.31	68.20	-4.89
	23140.00	Peak	V	-	-	-66.67	18.84	-9.54	49.63	68.20	-18.57
	28925.00	Peak	V	-	-	-50.13	2.80	-9.54	50.13	68.20	-18.07

Table 7-138. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5825MHz
Channel: 165

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11650.00	Average	V	-	-	-80.72	17.69	0.00	43.97	53.98	-10.01
*	11650.00	Peak	V	-	-	-68.74	17.69	0.00	55.95	73.98	-18.03
	17475.00	Peak	V	-	-	-69.82	26.26	0.00	63.44	68.20	-4.76
	23300.00	Peak	V	-	-	-67.59	19.55	-9.54	49.41	68.20	-18.79
	29125.00	Peak	V	-	-	-49.49	1.07	-9.54	49.04	68.20	-19.16

Table 7-139. Radiated Measurements MIMO (242 Tones)

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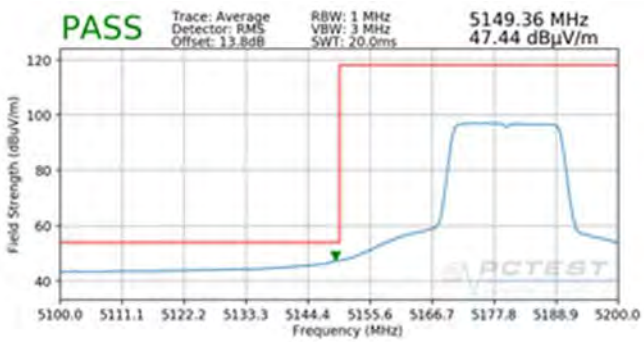
7.6.4 SISO Antenna-1 Radiated Band Edge Measurements (20MHz BW)

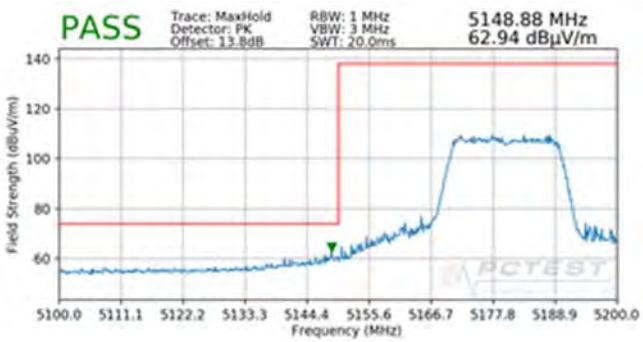
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

242 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

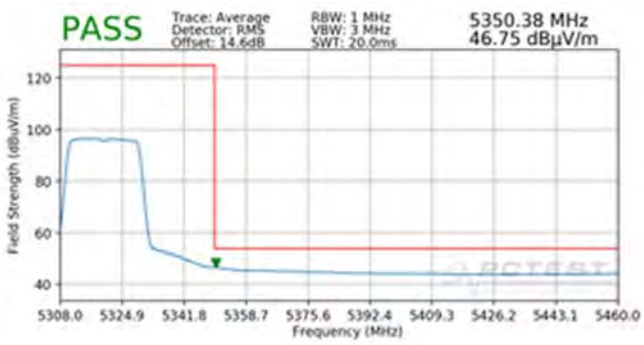


Plot 7-307. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 242 Tones)

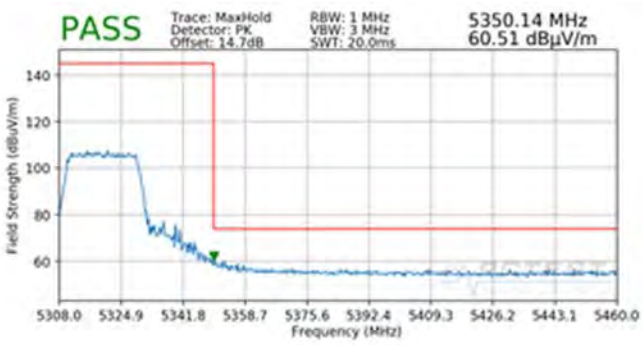


Plot 7-308. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



Plot 7-309. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 242 Tones)



Plot 7-310. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 242 Tones)

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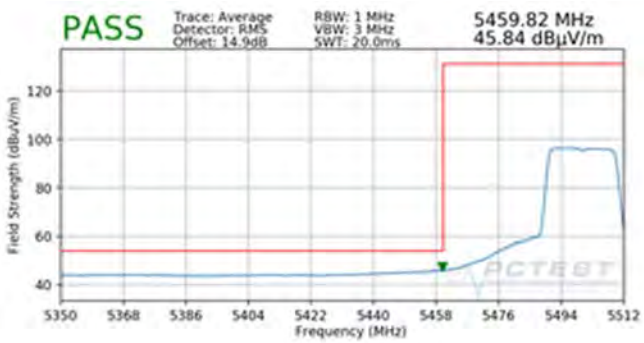
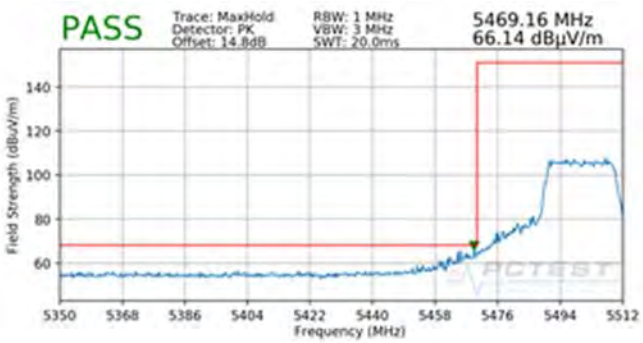
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100

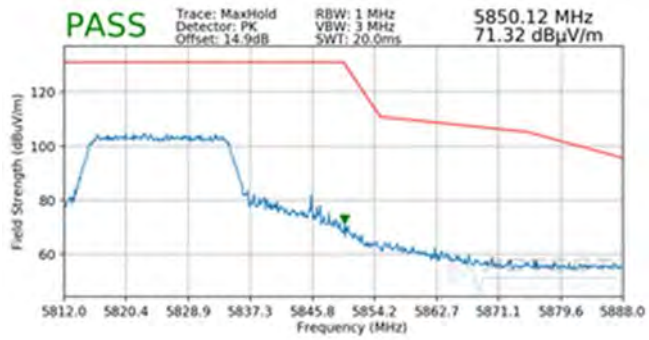


Plot 7-311. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 242 Tones)



Plot 7-312. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5825MHz
Channel:	165



Plot 7-313. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 242 Tones)

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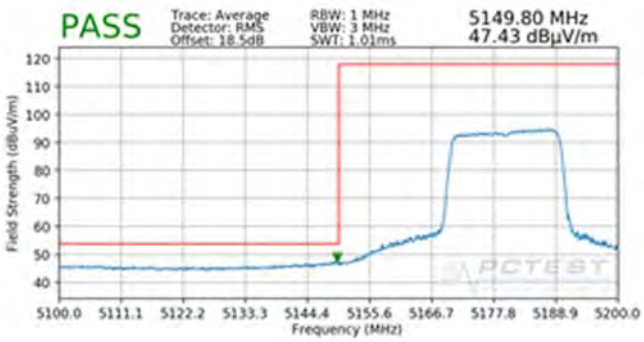
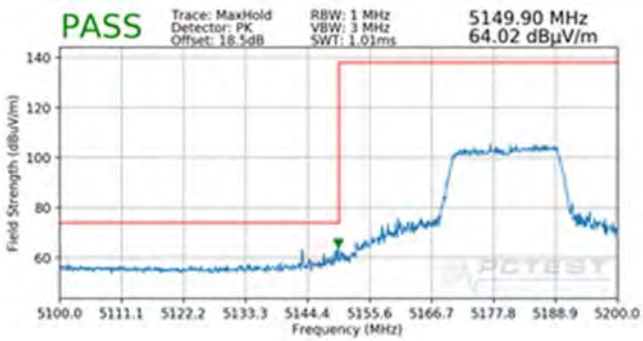
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36



Plot 7-314. Radiated Band Edge Plot SISO ANT1 (Average – WCP – 242 Tones)



Plot 7-315. Radiated Band Edge Plot SISO ANT1 (Peak – WCP – 242 Tones)

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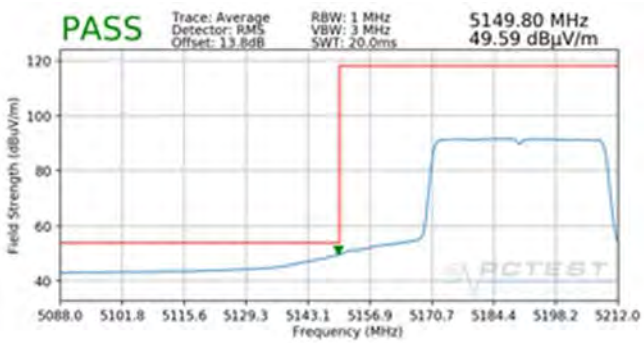
7.6.5 SISO Antenna-1 Radiated Band Edge Measurements (40MHz BW)

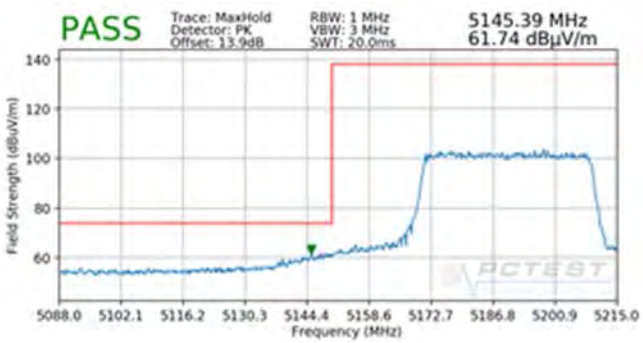
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

484 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

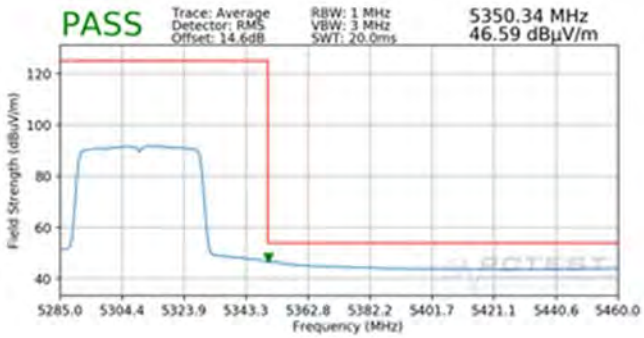


Plot 7-316. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 484 Tones)

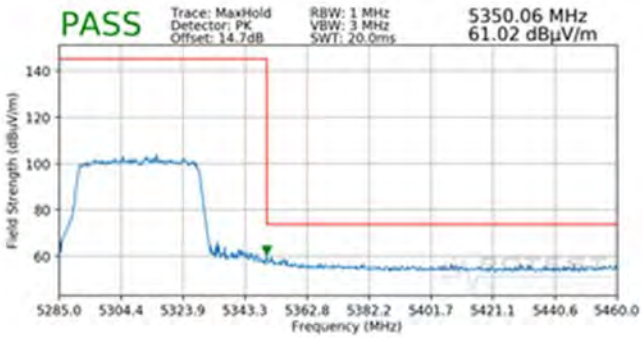


Plot 7-317. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-318. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 484 Tones)



Plot 7-319. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 484 Tones)

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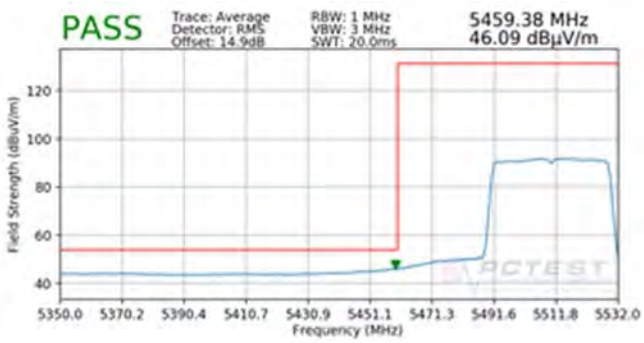
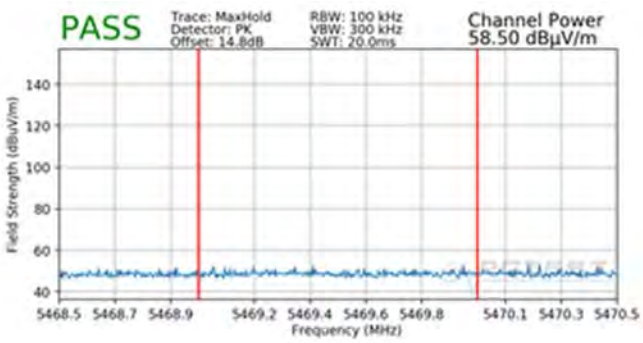
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5510MHz
Channel:	102

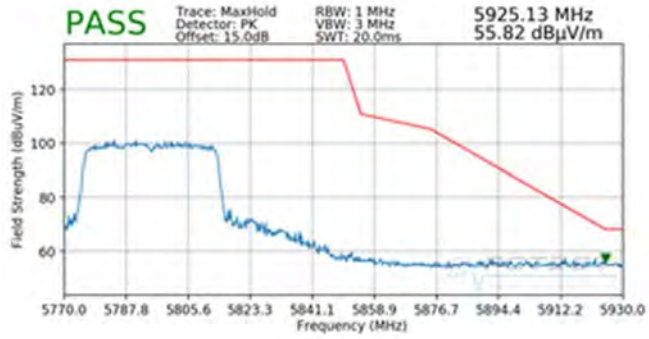


Plot 7-320. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 484 Tones)



Plot 7-321. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5795MHz
Channel:	159



Plot 7-322. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 484 Tones)

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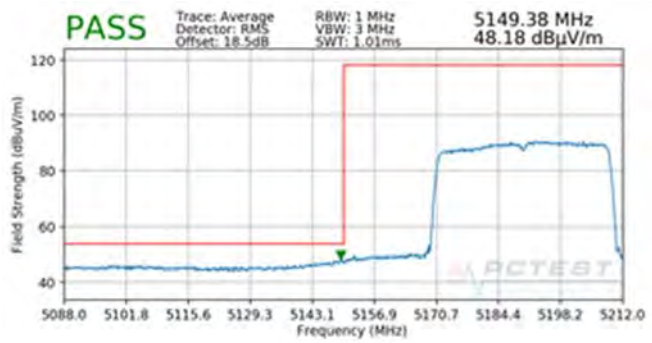
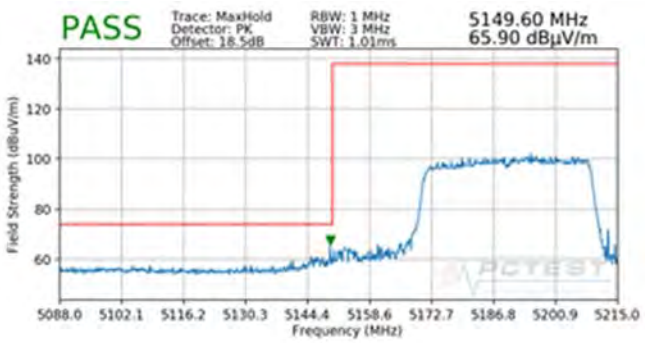
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38



Plot 7-323. Radiated Band Edge Plot SISO ANT1 (Average – WCP – 484 Tones)



Plot 7-324. Radiated Band Edge Plot SISO ANT1 (Peak – WCP – 484 Tones)

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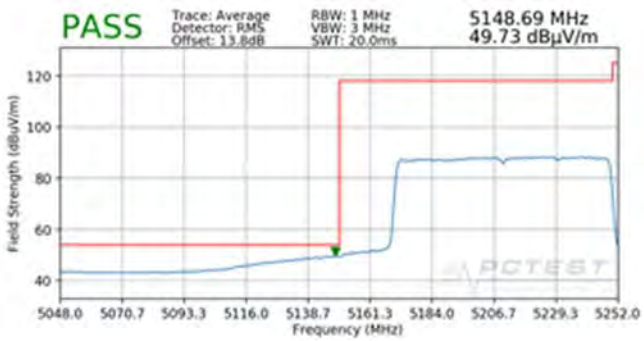
7.6.6 SISO Antenna-1 Radiated Band Edge Measurements (80MHz BW)

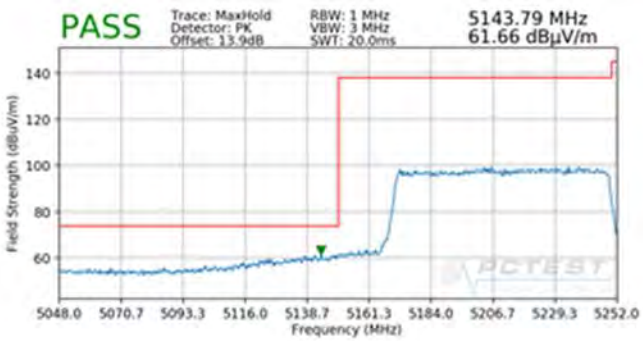
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

996 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

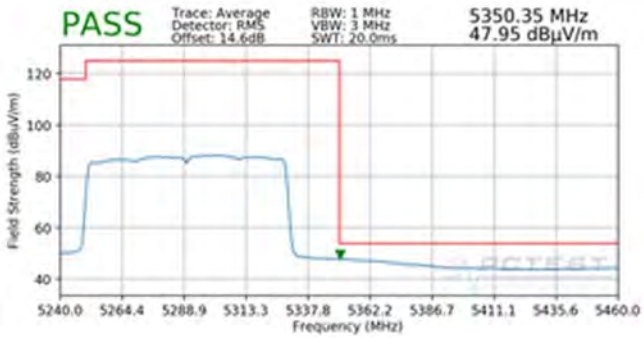


Plot 7-325. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 996 Tones)

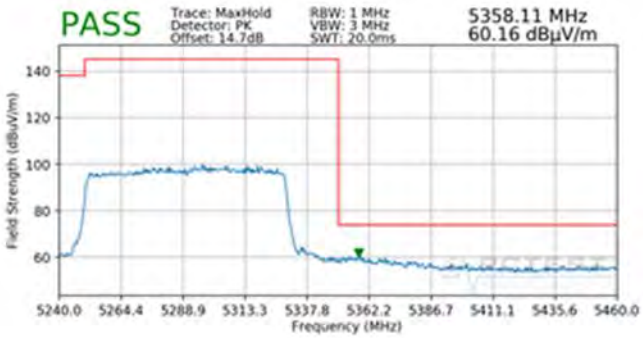


Plot 7-326. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



Plot 7-327. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 996 Tones)



Plot 7-328. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 996 Tones)

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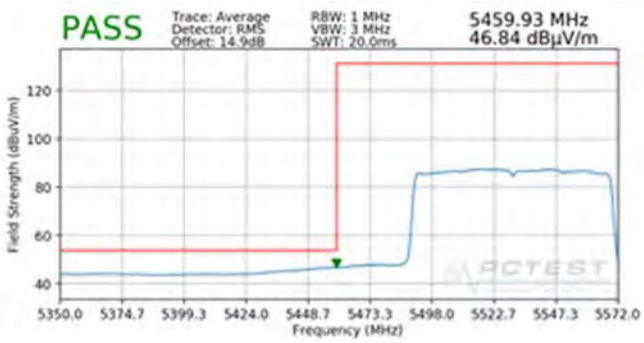
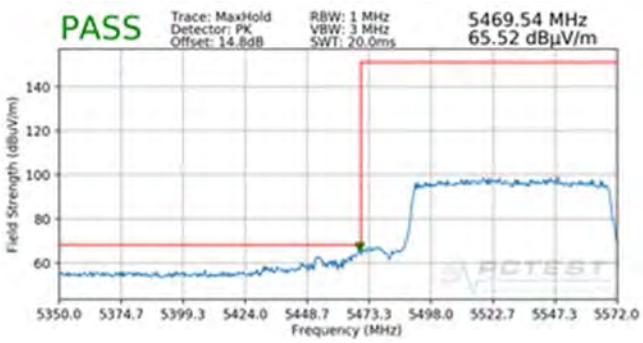
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5530MHz
Channel:	106

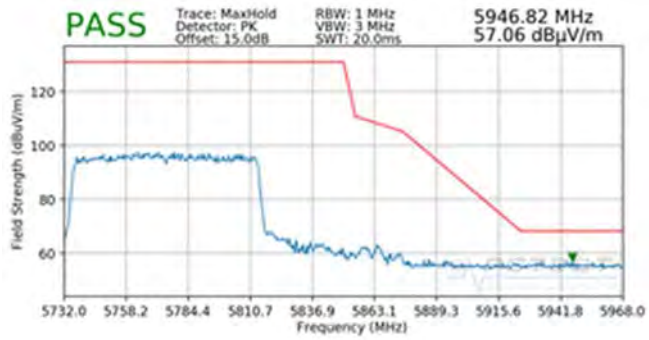


Plot 7-329. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 996 Tones)



Plot 7-330. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5775MHz
Channel:	155



Plot 7-331. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 996 Tones)

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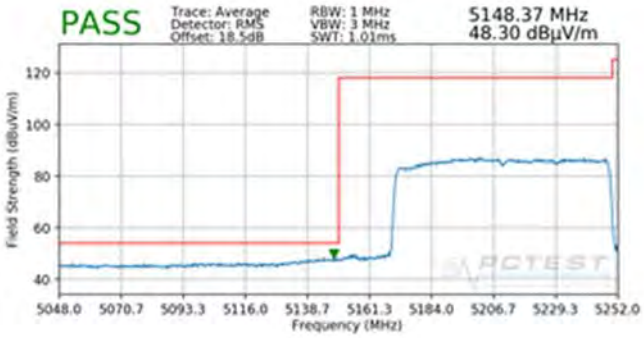
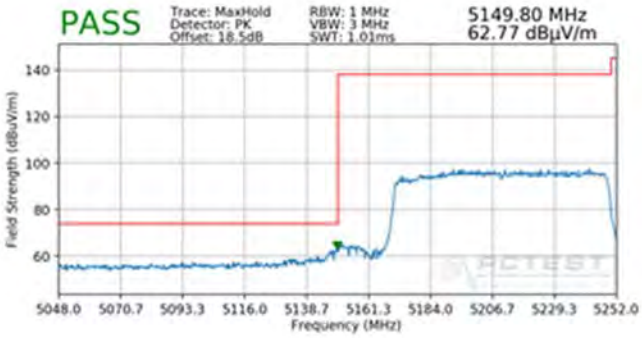
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42



Plot 7-332. Radiated Band Edge Plot SISO ANT1 (Average – WCP – 996 Tones)



Plot 7-333. Radiated Band Edge Plot SISO ANT1 (Peak – WCP – 996 Tones)

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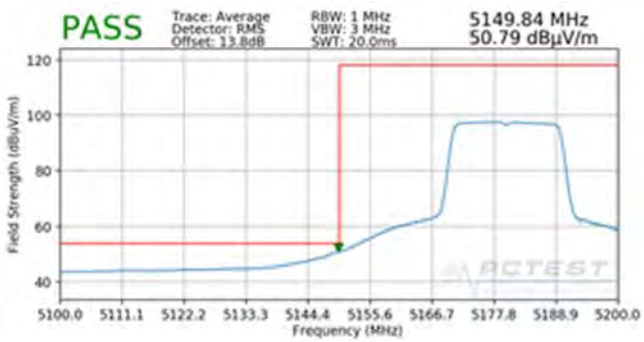
7.6.7 SISO Antenna-2 Radiated Band Edge Measurements (20MHz BW)

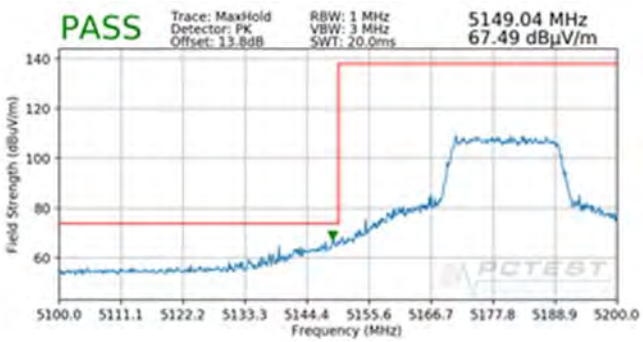
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

242 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

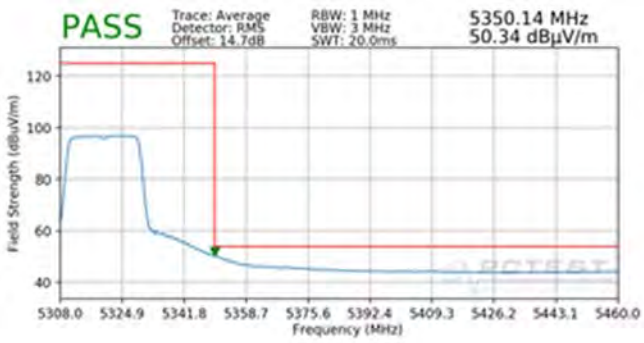


Plot 7-334. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 242 Tones)

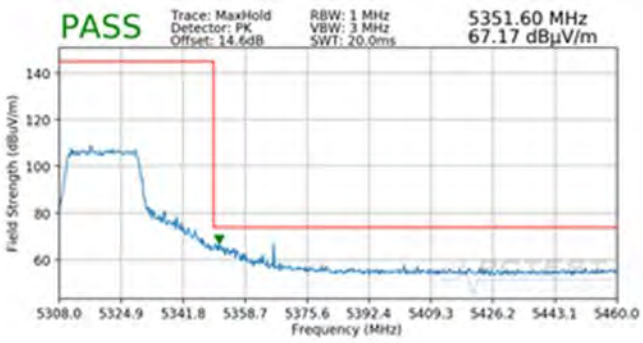


Plot 7-335. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



Plot 7-336. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 242 Tones)



Plot 7-337. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A – 242 Tones)

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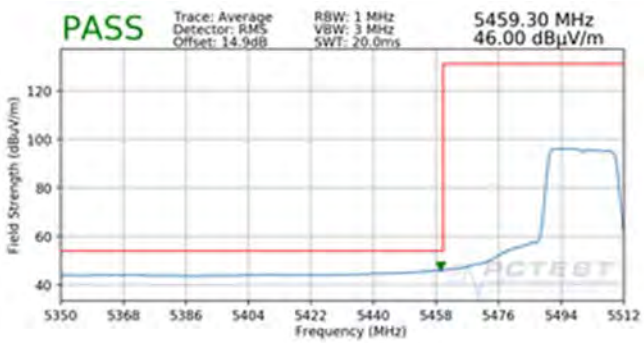
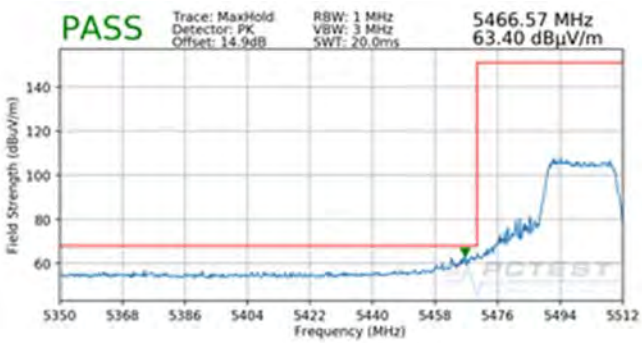
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100

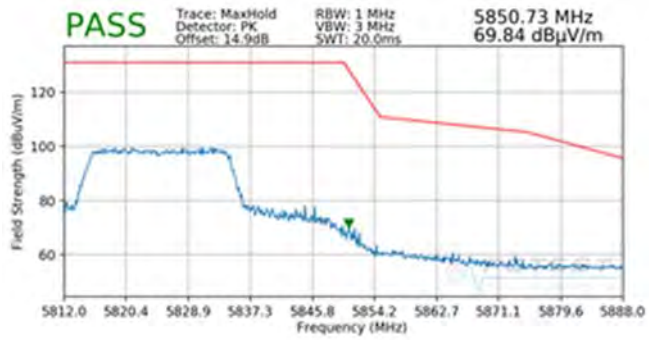


Plot 7-338. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 242 Tones)



Plot 7-339. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5825MHz
Channel:	165



Plot 7-340. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3 – 242 Tones)

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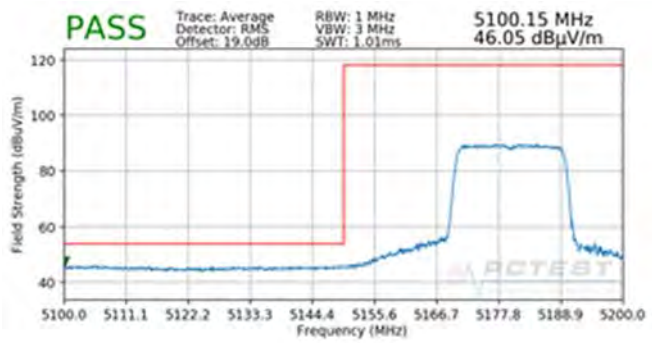
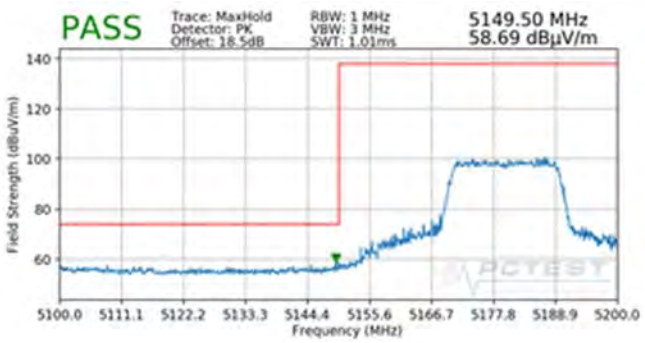
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36



Plot 7-341. Radiated Band Edge Plot SISO ANT2 (Average – WCP – 242 Tones)



Plot 7-342. Radiated Band Edge Plot SISO ANT2 (Peak – WCP – 242 Tones)

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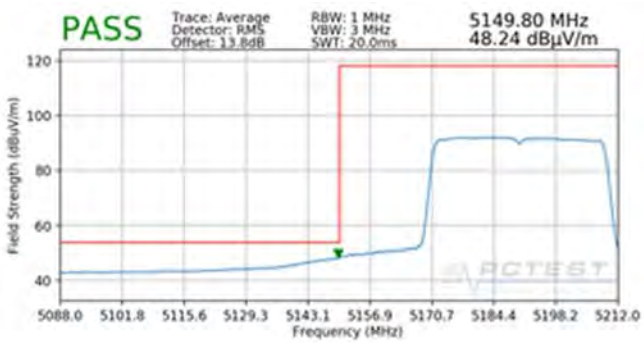
7.6.8 SISO Antenna-2 Radiated Band Edge Measurements (40MHz BW)

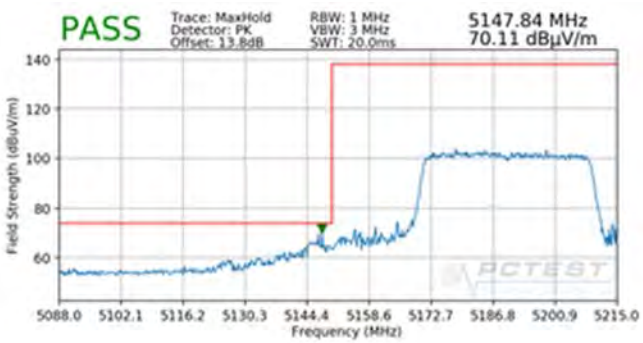
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

484 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

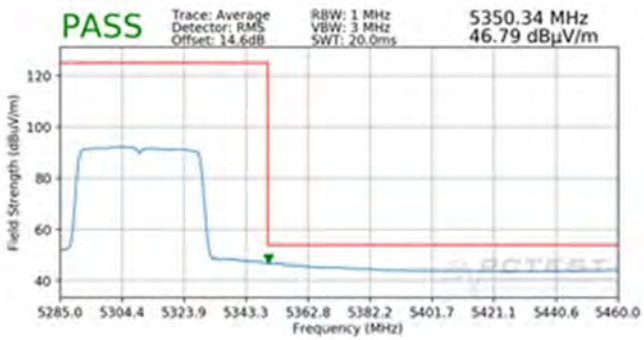


Plot 7-343. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 484 Tones)

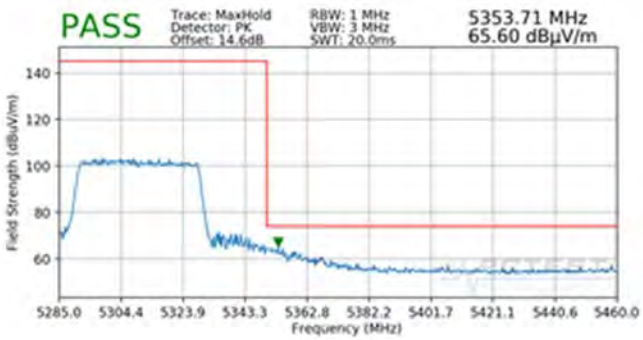


Plot 7-344. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-345. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 484 Tones)



Plot 7-346. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A – 484 Tones)

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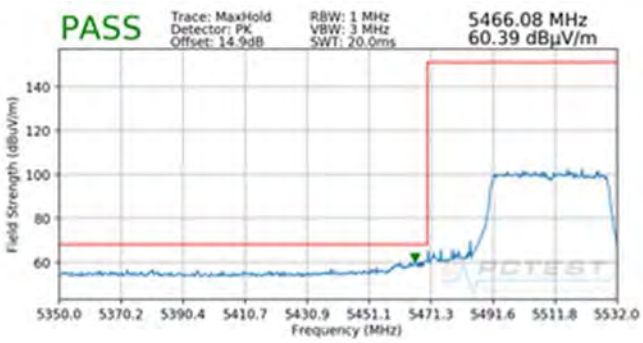
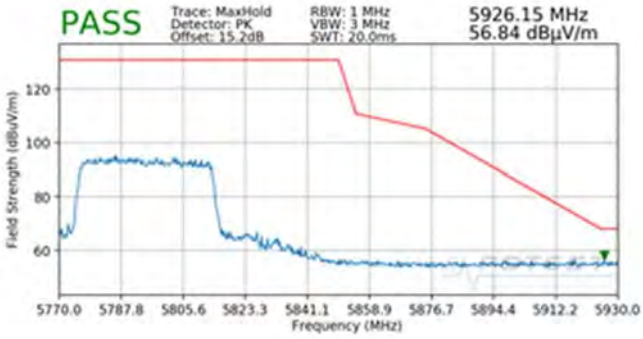
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5510MHz
Channel:	102

Plot 7-347. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 484 Tones)



Plot 7-348. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5795MHz
Channel:	159



Plot 7-349. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3 – 484 Tones)

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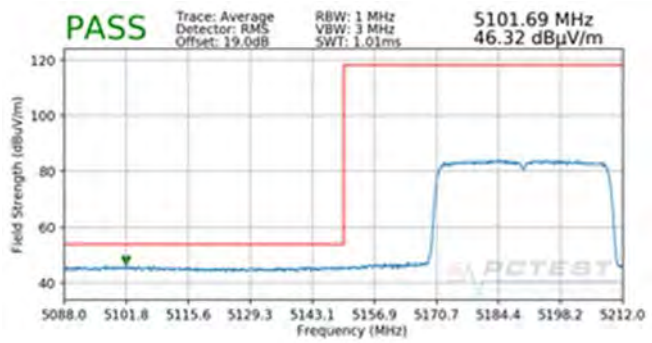
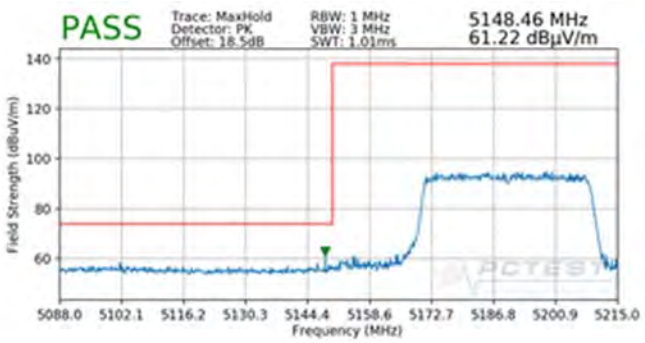
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38



Plot 7-350. Radiated Band Edge Plot SISO ANT2 (Average – WCP – 484 Tones)



Plot 7-351. Radiated Band Edge Plot SISO ANT2 (Peak – WCP – 484 Tones)

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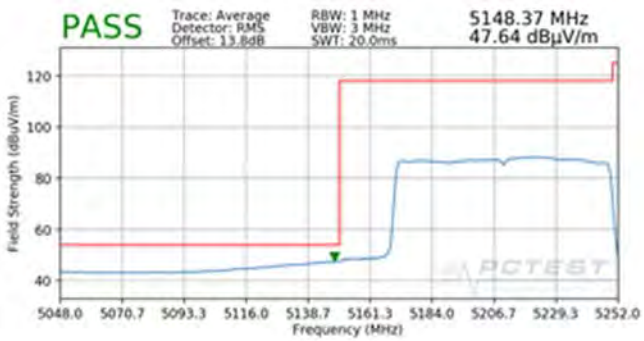
7.6.9 SISO Antenna-2 Radiated Band Edge Measurements (80MHz BW)

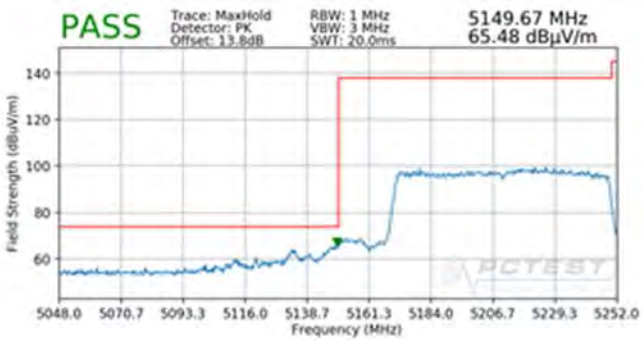
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

996 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

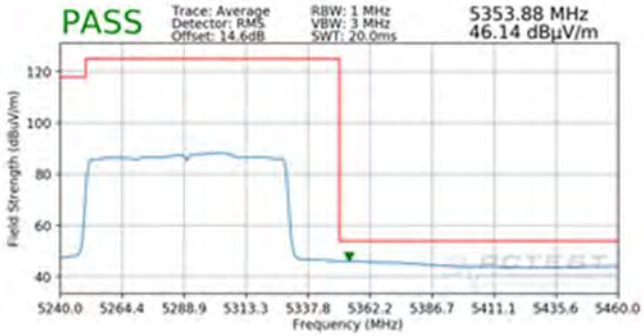


Plot 7-352. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 996 Tones)

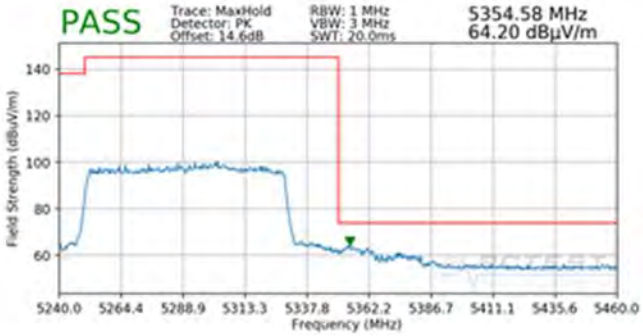


Plot 7-353. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



Plot 7-354. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 996 Tones)



Plot 7-355. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A – 996 Tones)

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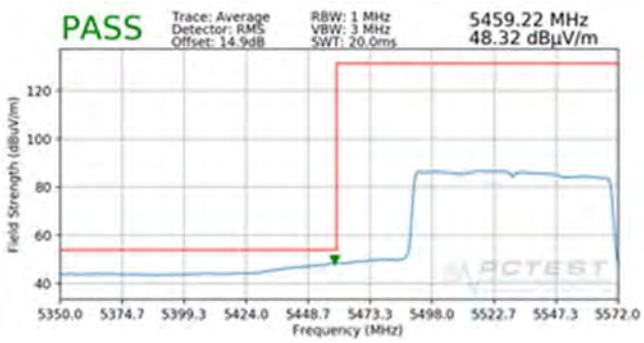
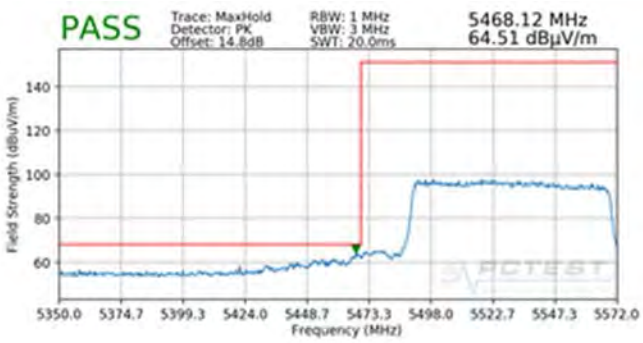
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5530MHz
Channel:	106

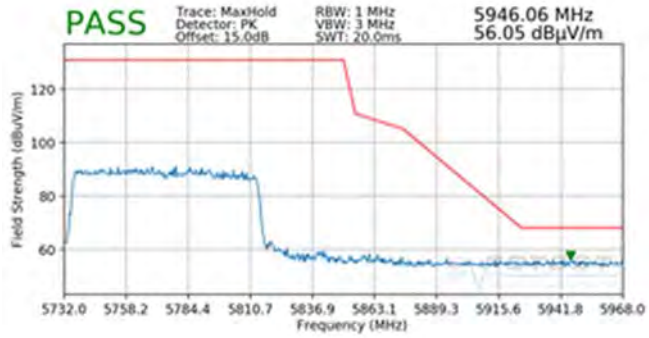


Plot 7-356. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 996 Tones)



Plot 7-357. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5775MHz
Channel:	155



Plot 7-358. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3 – 996 Tones)

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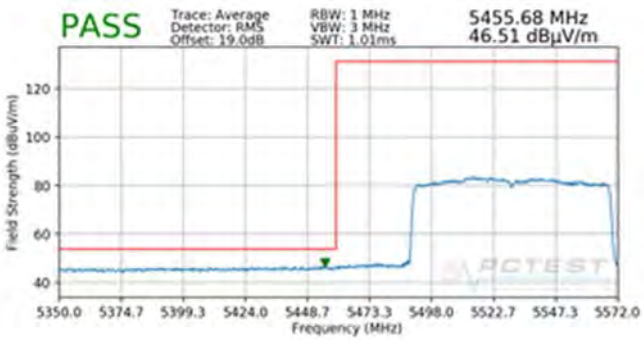
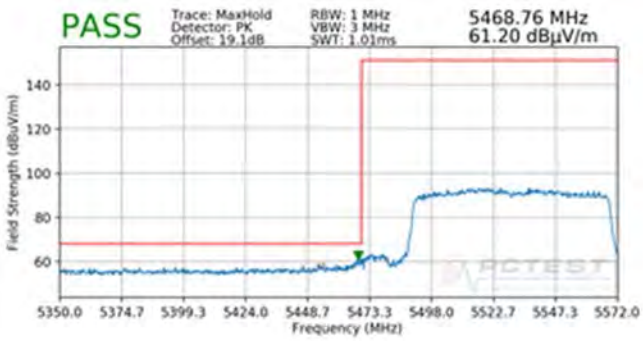
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5530MHz
Channel:	106



Plot 7-359. Radiated Band Edge Plot SISO ANT2 (Average – WCP – 996 Tones)



Plot 7-360. Radiated Band Edge Plot SISO ANT2 (Peak – WCP – 996 Tones)

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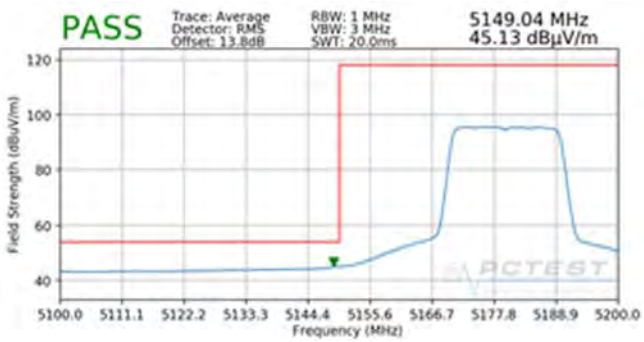
7.6.10 MIMO Radiated Band Edge Measurements (20MHz BW)

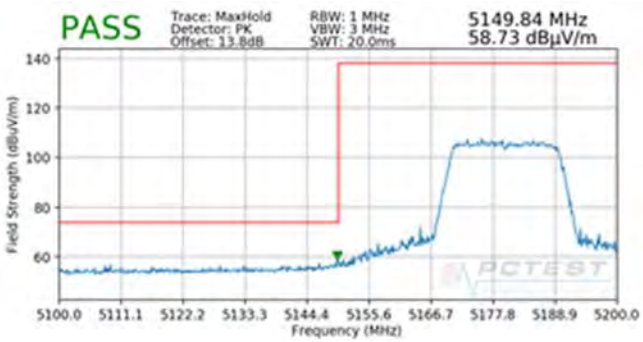
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

242 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

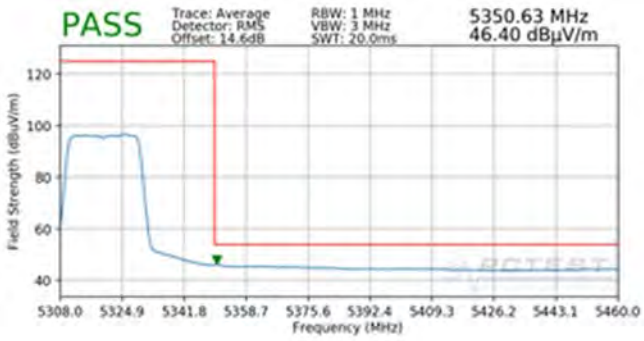


Plot 7-361. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 242 Tones)

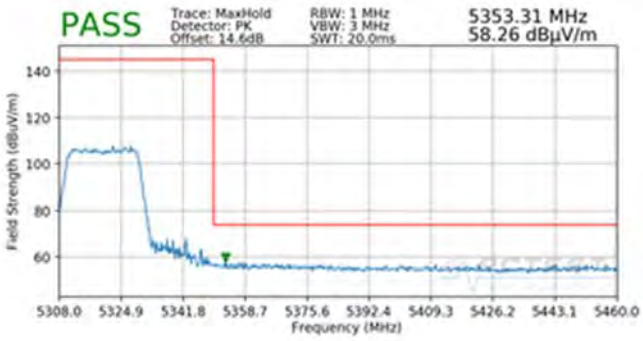


Plot 7-362. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



Plot 7-363. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 242 Tones)



Plot 7-364. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 242 Tones)

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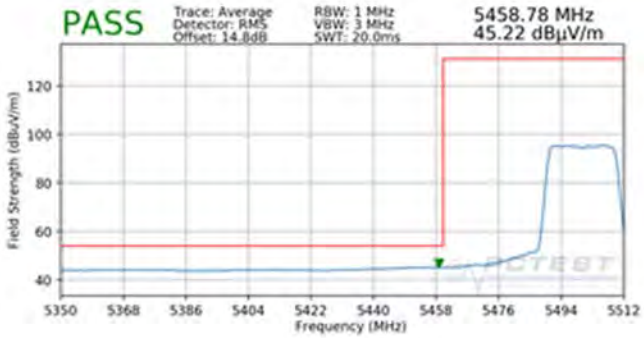
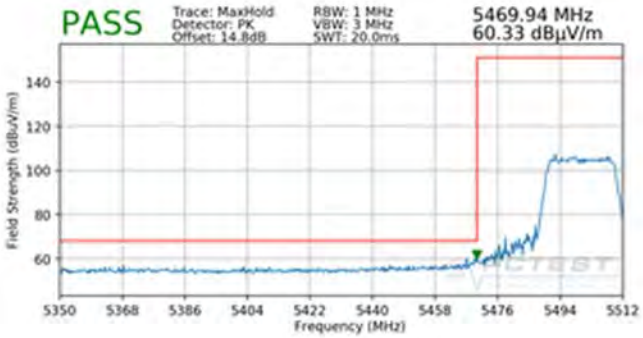
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100

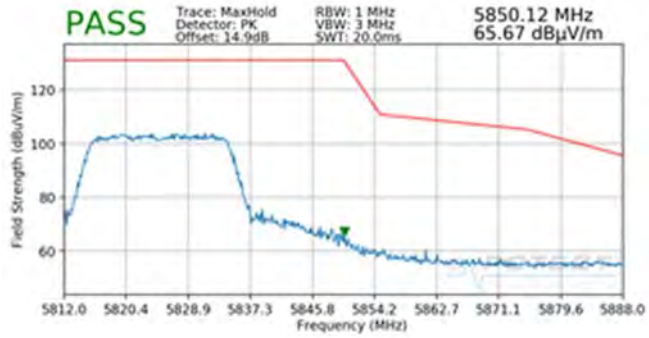


Plot 7-365. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 242 Tones)



Plot 7-366. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5825MHz
Channel:	165



Plot 7-367. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 242 Tones)

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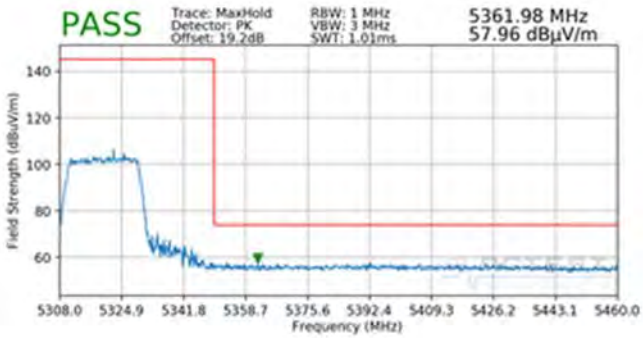
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64

Plot 7-368. Radiated Band Edge Plot MIMO (Average – WCP – 242 Tones)



Plot 7-369. Radiated Band Edge Plot MIMO (Peak – WCP – 242 Tones)

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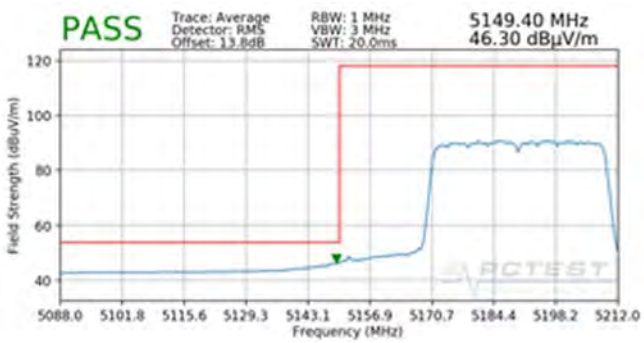
7.6.11 MIMO Radiated Band Edge Measurements (40MHz BW)

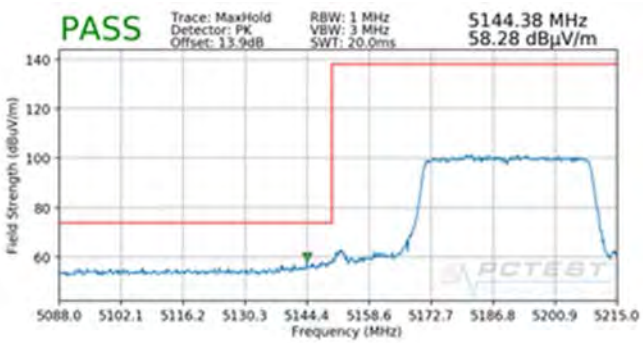
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

484 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

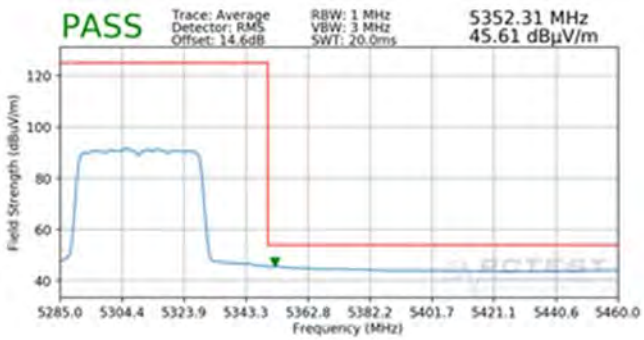


Plot 7-370. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 484 Tones)

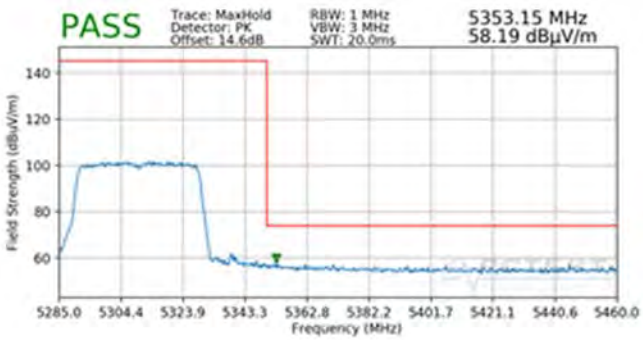


Plot 7-371. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-372. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 484 Tones)



Plot 7-373. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 484 Tones)

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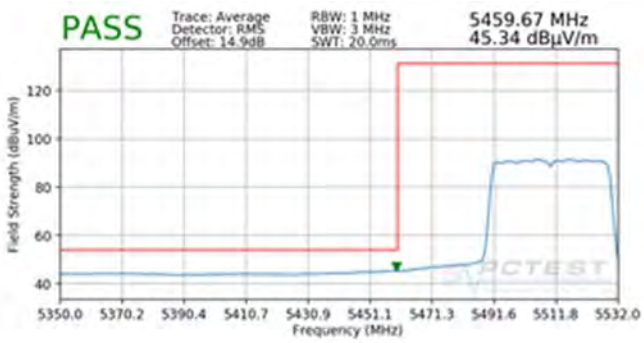
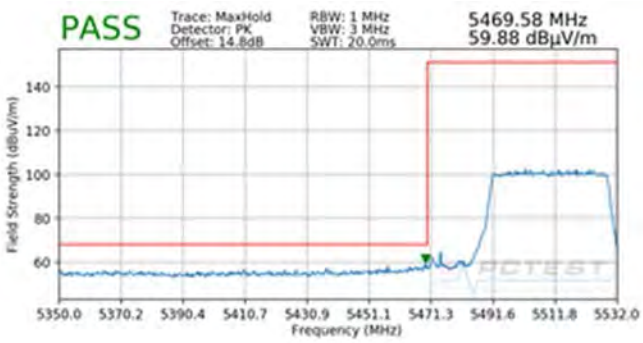
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5510MHz
Channel:	102

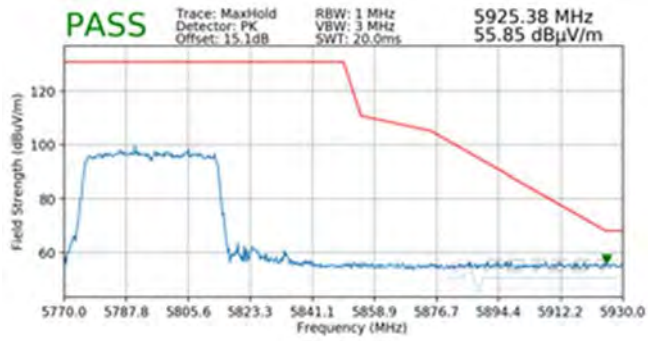


Plot 7-374. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 484 Tones)



Plot 7-375. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5795MHz
Channel:	159



Plot 7-376. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 484 Tones)

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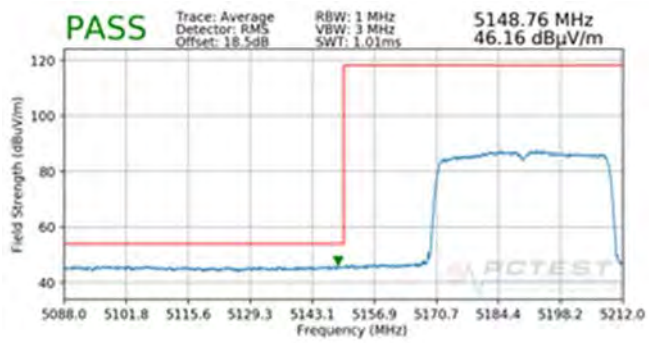
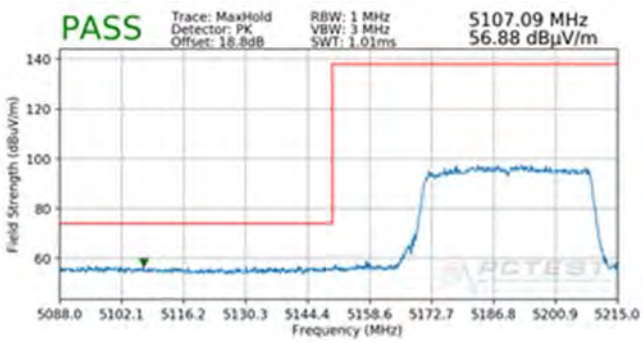
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38



Plot 7-377. Radiated Band Edge Plot MIMO (Average – WCP – 484 Tones)



Plot 7-378. Radiated Band Edge Plot MIMO (Peak – WCP – 484 Tones)

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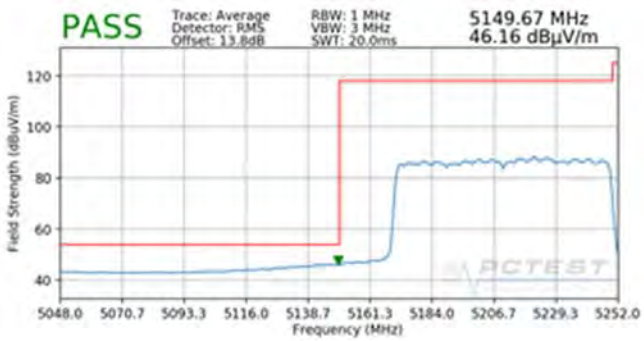
7.6.12 MIMO Radiated Band Edge Measurements (80MHz BW)

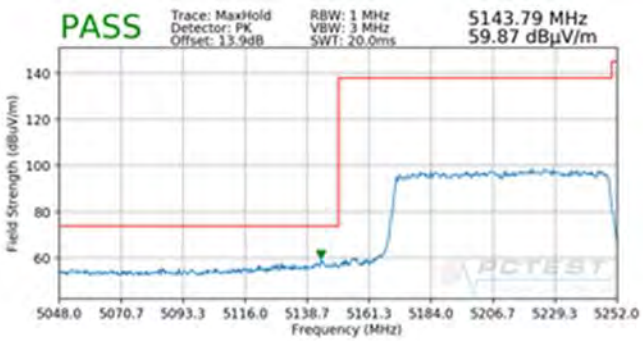
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

996 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

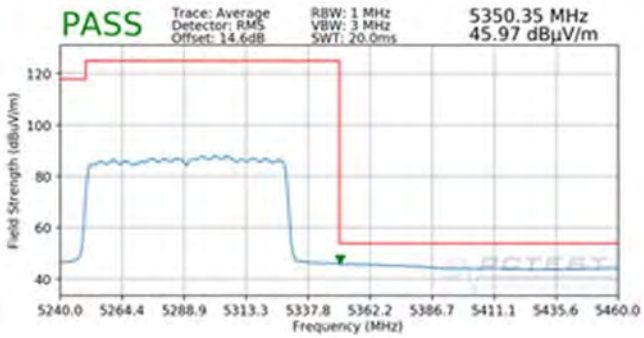


Plot 7-379. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 996 Tones)

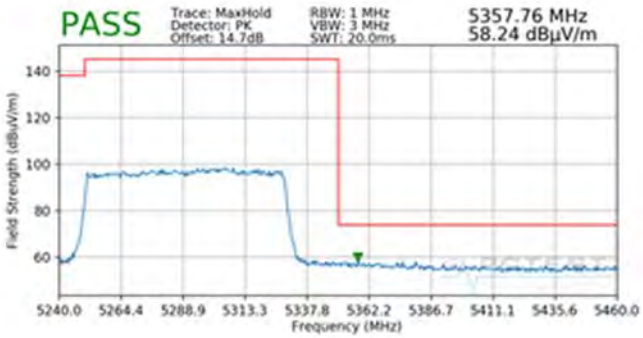


Plot 7-380. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



Plot 7-381. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 996 Tones)



Plot 7-382. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 996 Tones)

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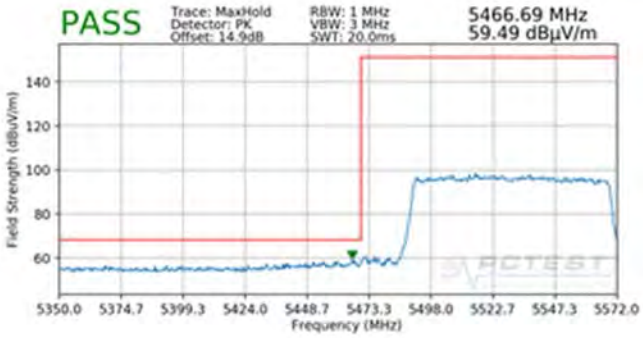
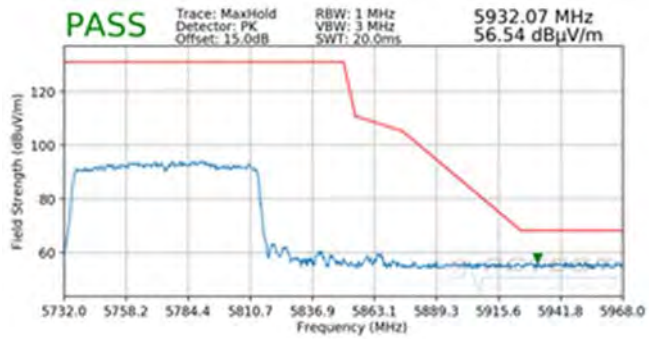
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5530MHz
Channel:	106

Plot 7-383. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 996 Tones)



Plot 7-384. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5775MHz
Channel:	155



Plot 7-385. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 996 Tones)

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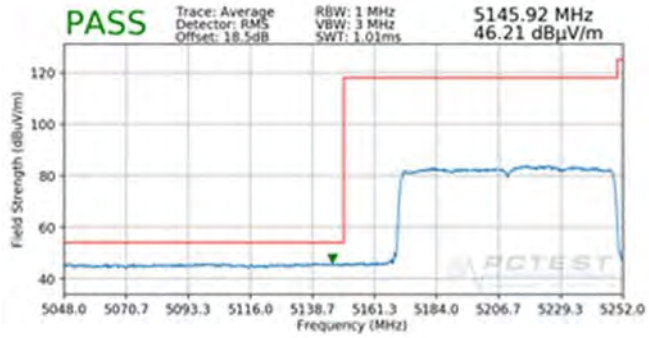
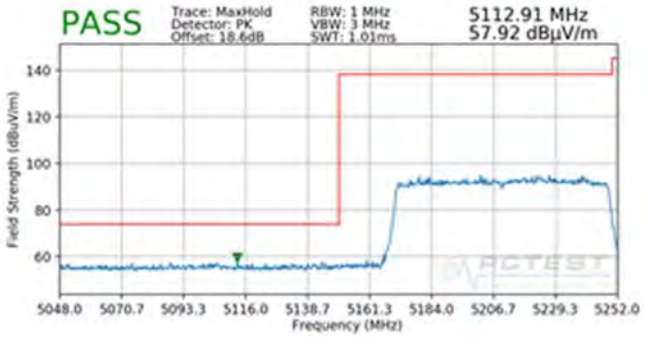
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42



Plot 7-386. Radiated Band Edge Plot MIMO (Average – WCP – 996 Tones)



Plot 7-387. Radiated Band Edge Plot MIMO (Peak – WCP – 996 Tones)

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7.7 Radiated Spurious Emissions Measurements – Below 1GHz

§15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-130 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [µV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-140. Radiated Limits

Test Procedures Used

ANSI C63.10-2013

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagrams below.

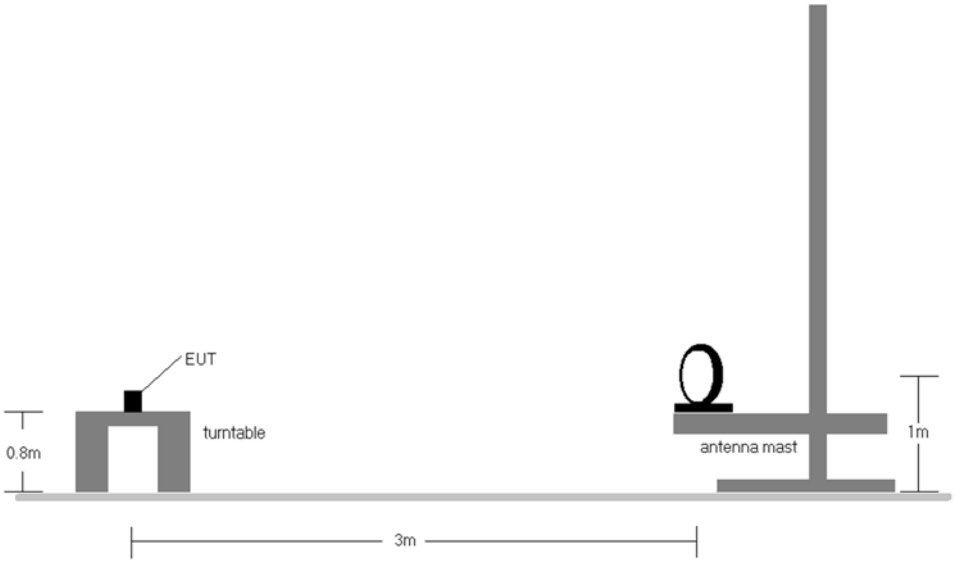

Figure 7-6. Radiated Test Setup < 30MHz

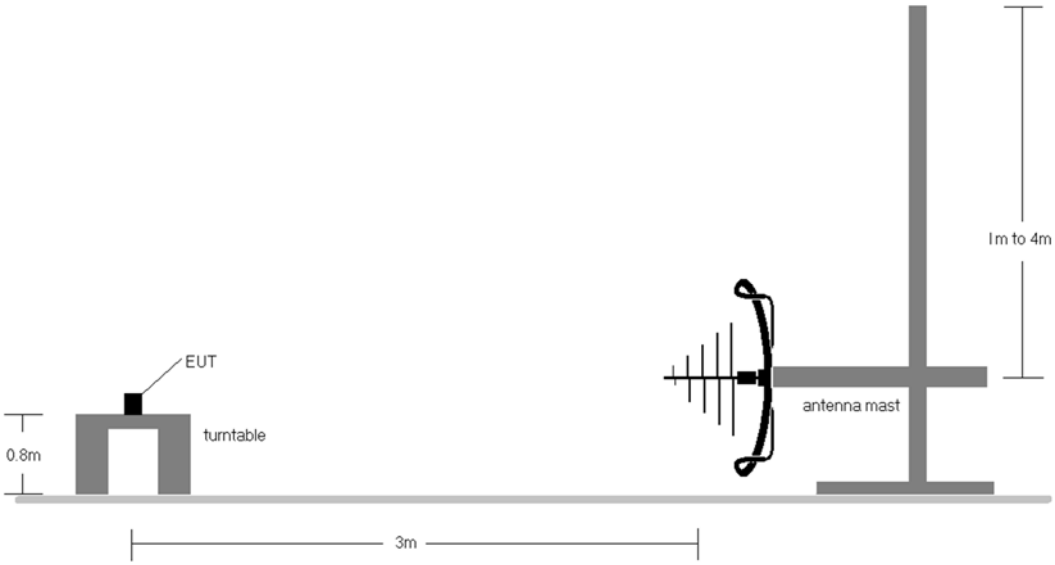

Figure 7-7. Radiated Test Setup < 1GHz

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Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-130.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.

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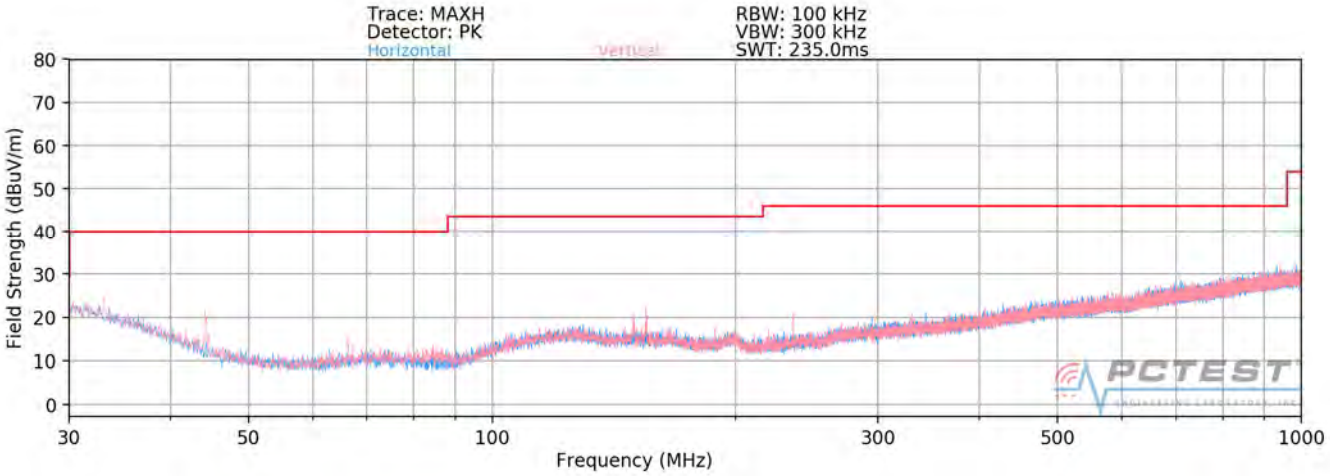
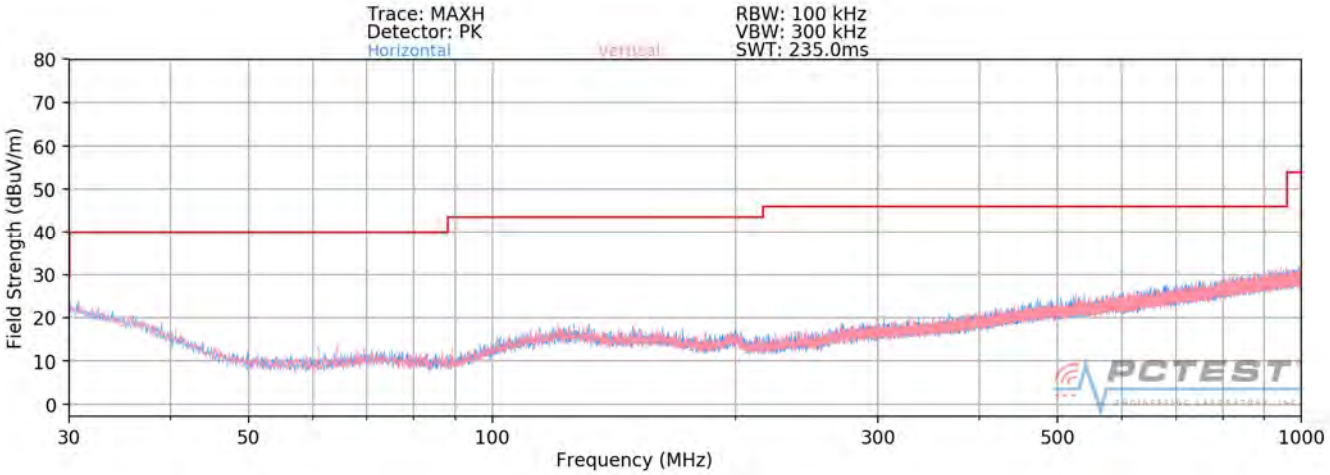
SISO Antenna-1 Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-388. Radiated Spurious Plot below 1GHz SISO ANT1 (802.11ax – 26 Tones – U3 Ch. 157)



Plot 7-389. Radiated Spurious Plot below 1GHz SISO ANT1 (802.11ax – 242 Tones – U3 Ch. 157)

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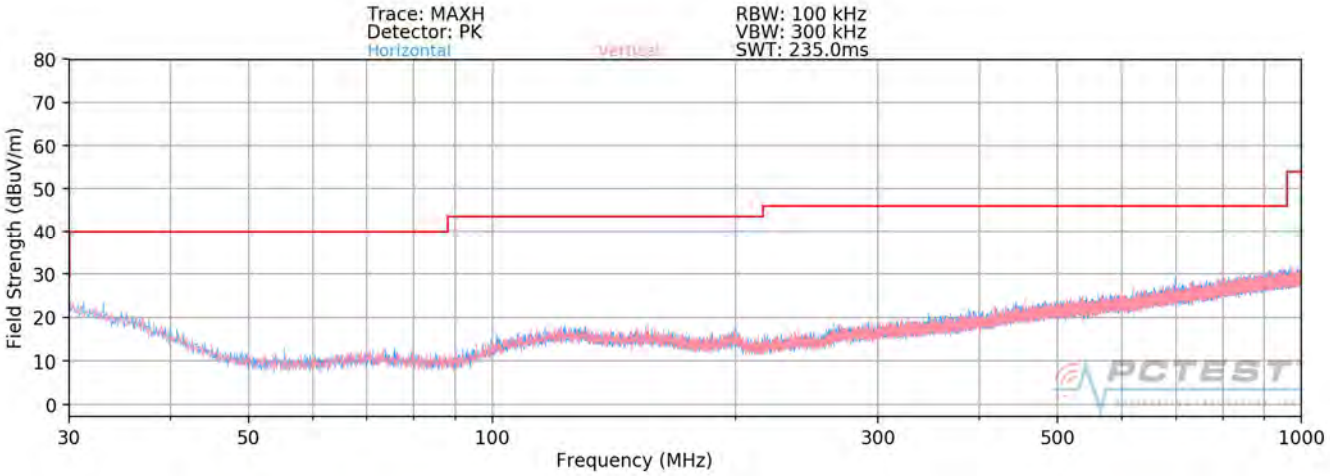
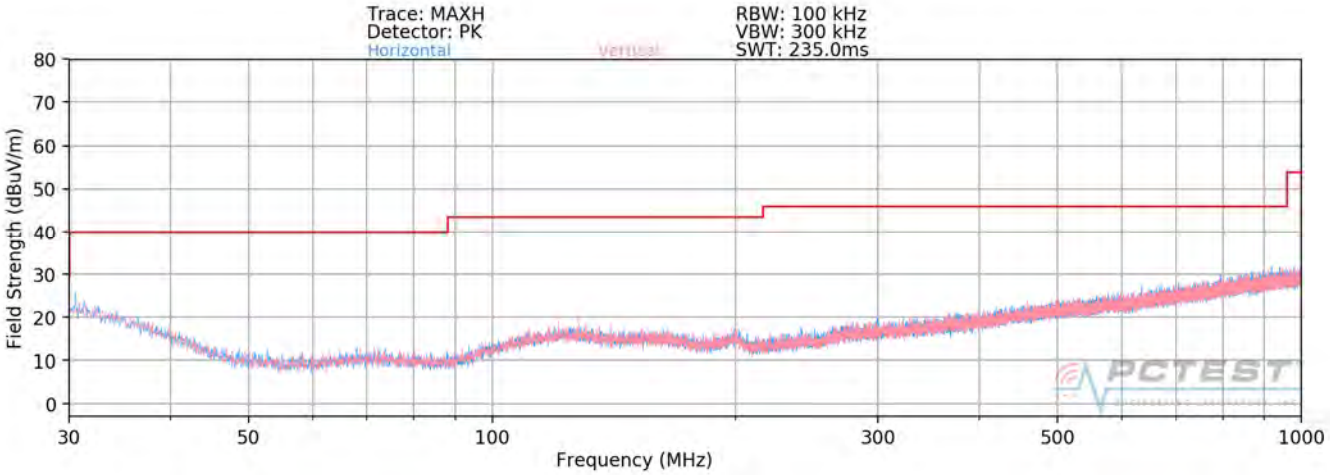
SISO Antenna-2 Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-390. Radiated Spurious Plot below 1GHz SISO ANT2 (802.11ax – 26 Tones – U3 Ch. 157)



Plot 7-391. Radiated Spurious Plot below 1GHz SISO ANT2 (802.11ax – 242 Tones – U3 Ch. 157)

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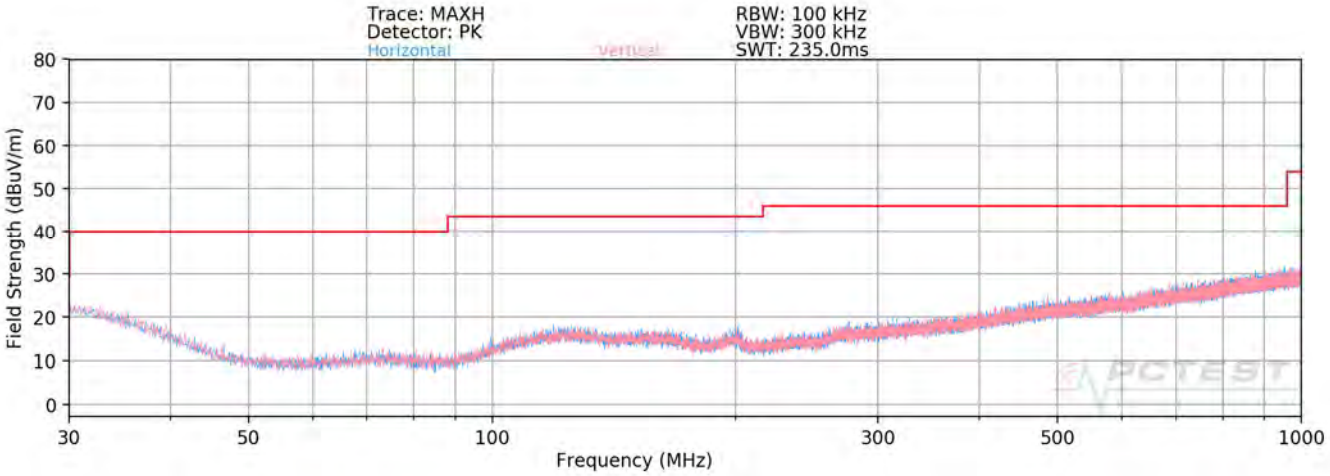
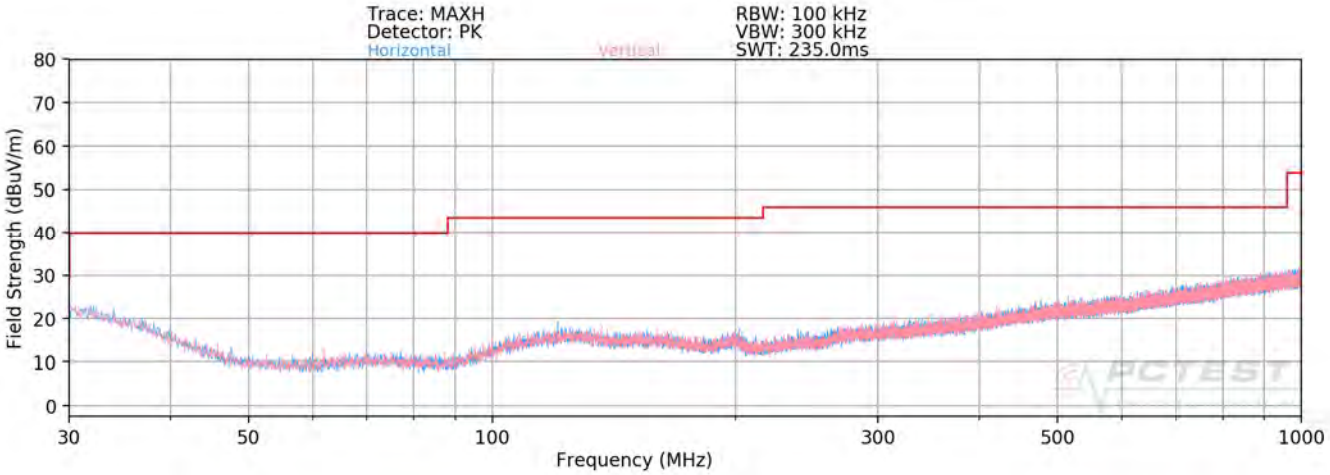
MIMO Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-392. Radiated Spurious Plot below 1GHz MIMO (802.11ax – 26 Tones – U3 Ch. 157)



Plot 7-393. Radiated Spurious Plot below 1GHz MIMO (802.11ax – 242 Tones – U3 Ch. 157)

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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMG977U** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

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