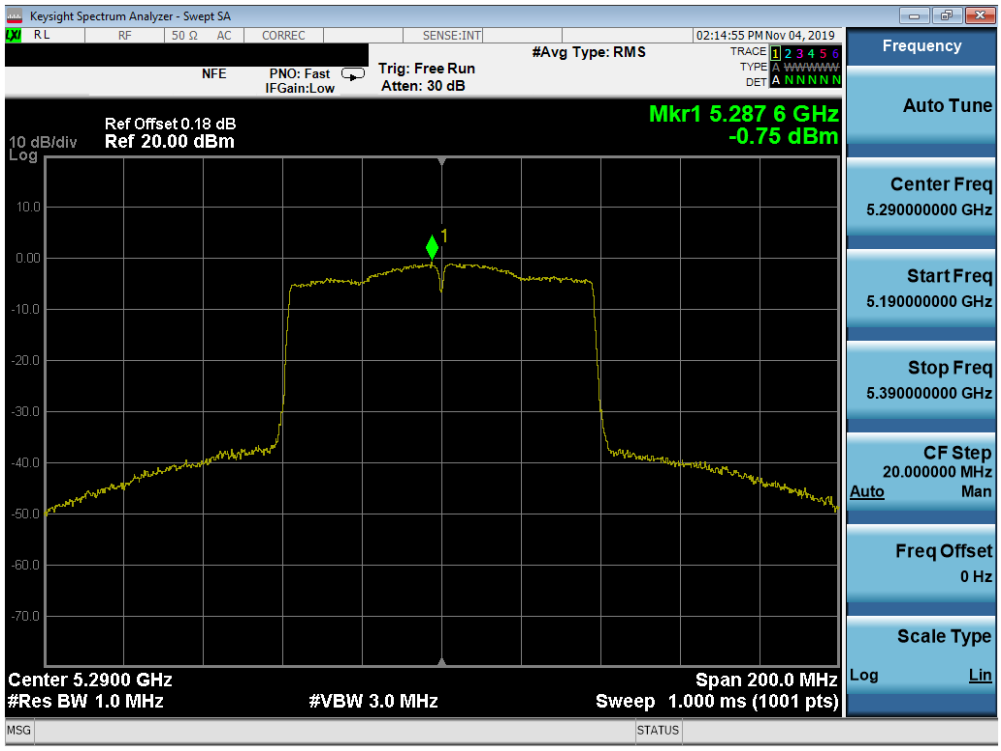
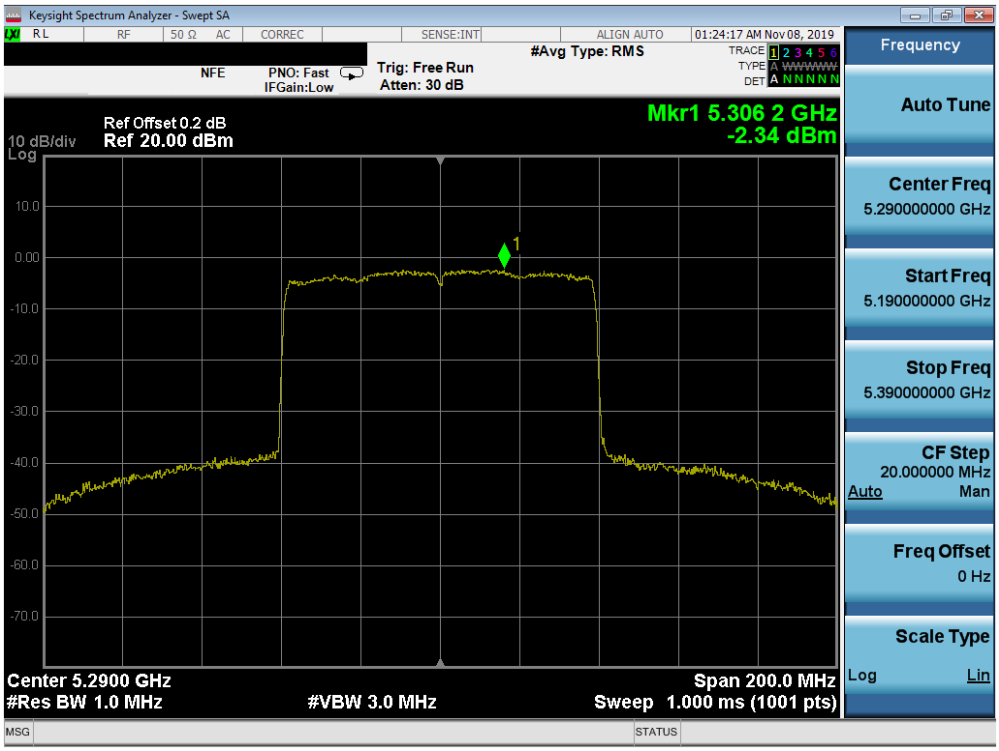


Plot 7-227. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)



Plot 7-228. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2A) – Ch. 58)

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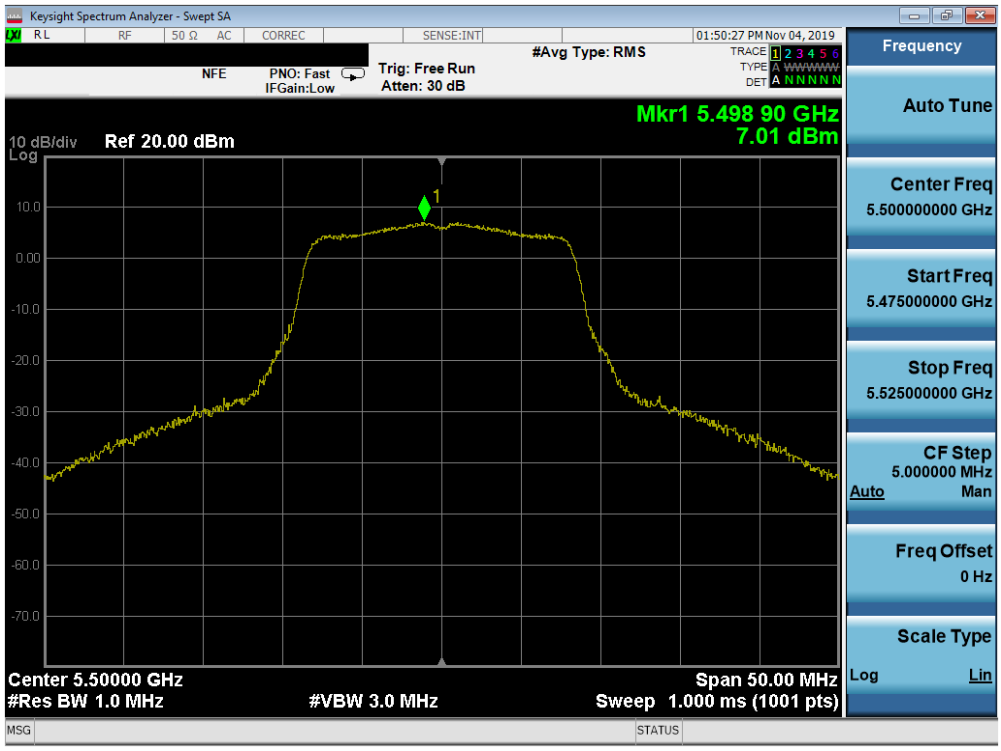
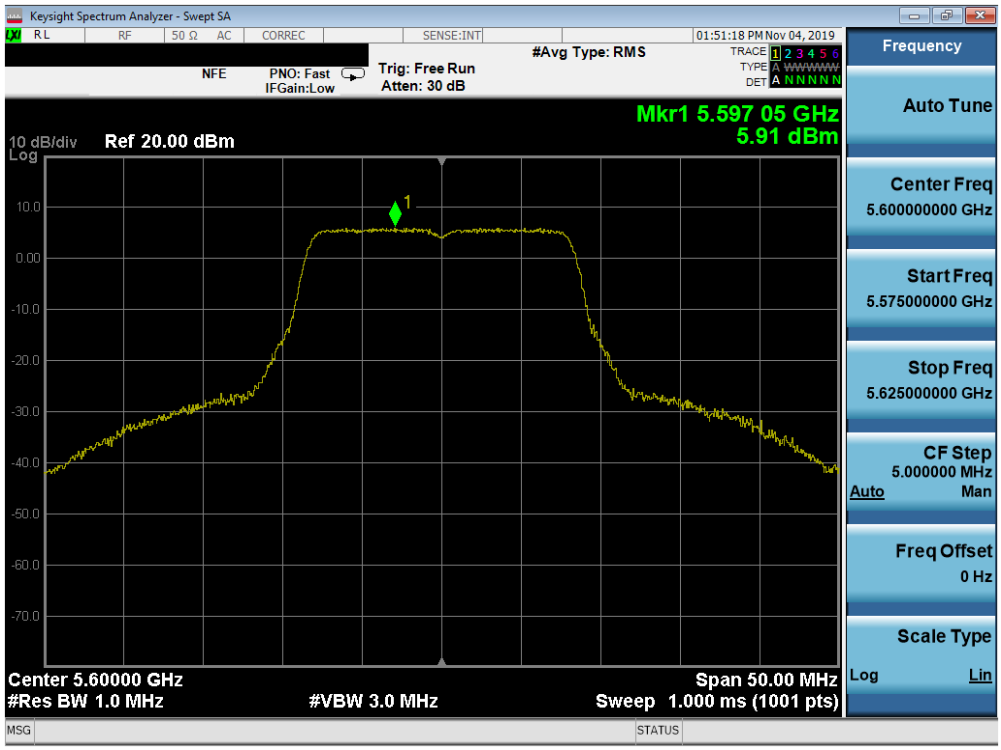


Plot 7-229. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2C) – Ch. 100)



Plot 7-230. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2C) – Ch. 120)

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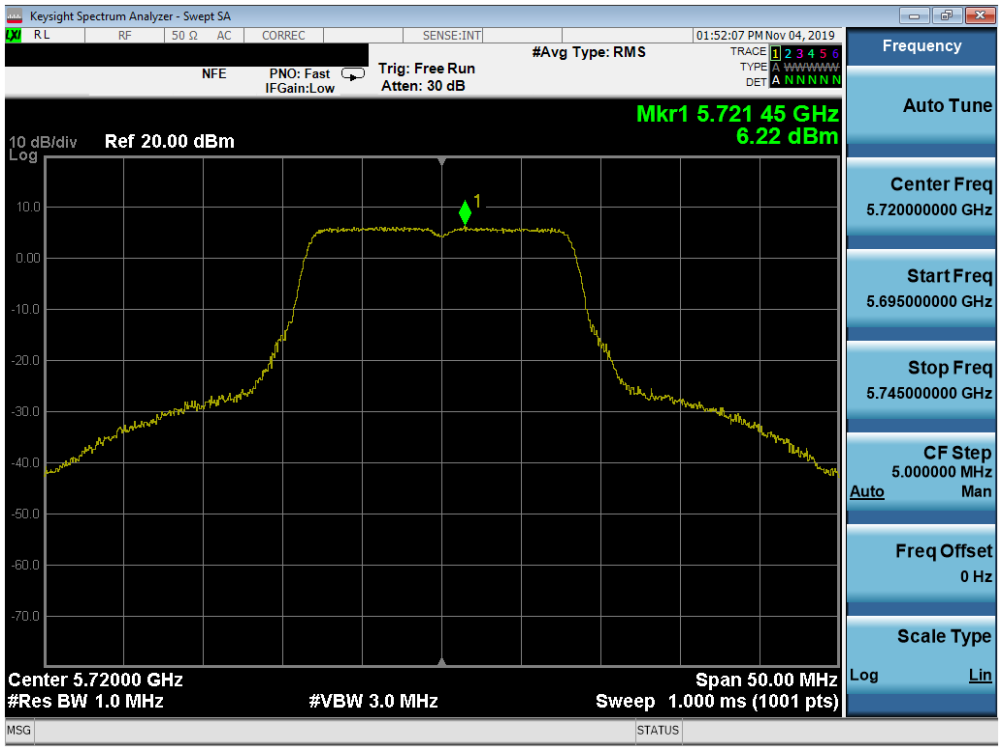
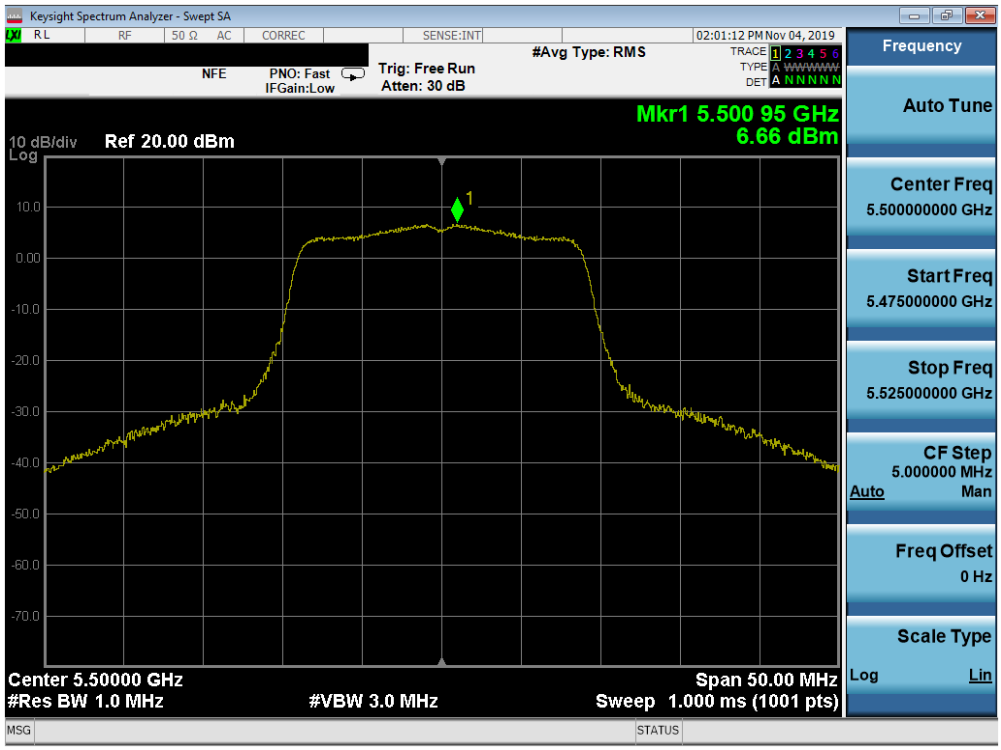


Plot 7-231. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2C) – Ch. 144)



Plot 7-232. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

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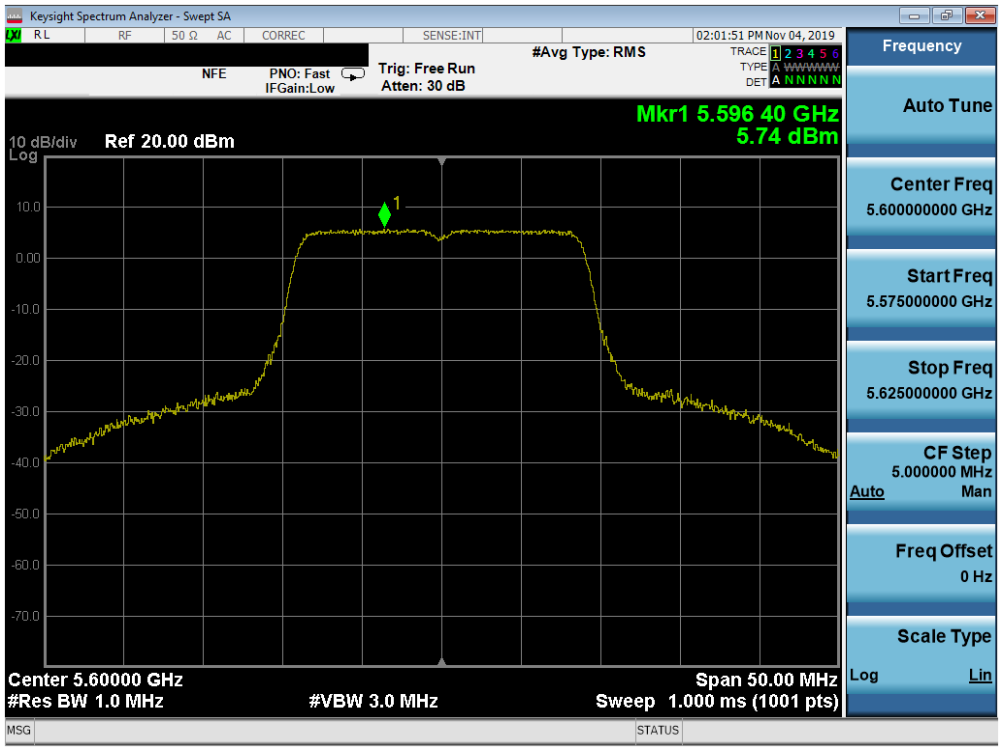
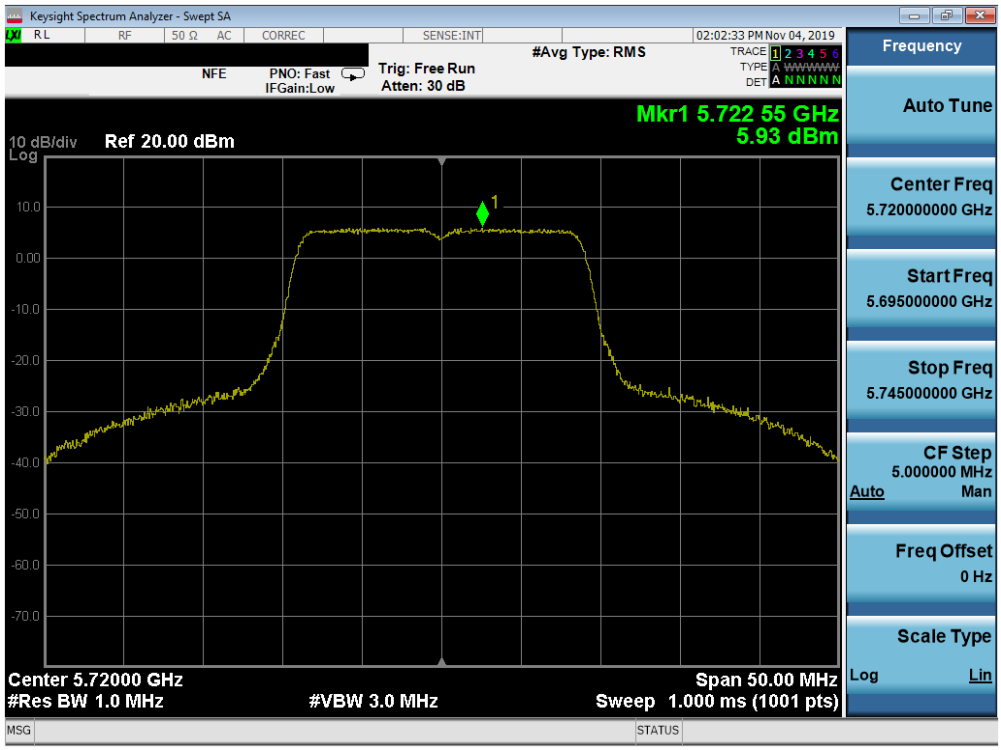


Plot 7-233. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) – Ch. 120)



Plot 7-234. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) – Ch. 144)

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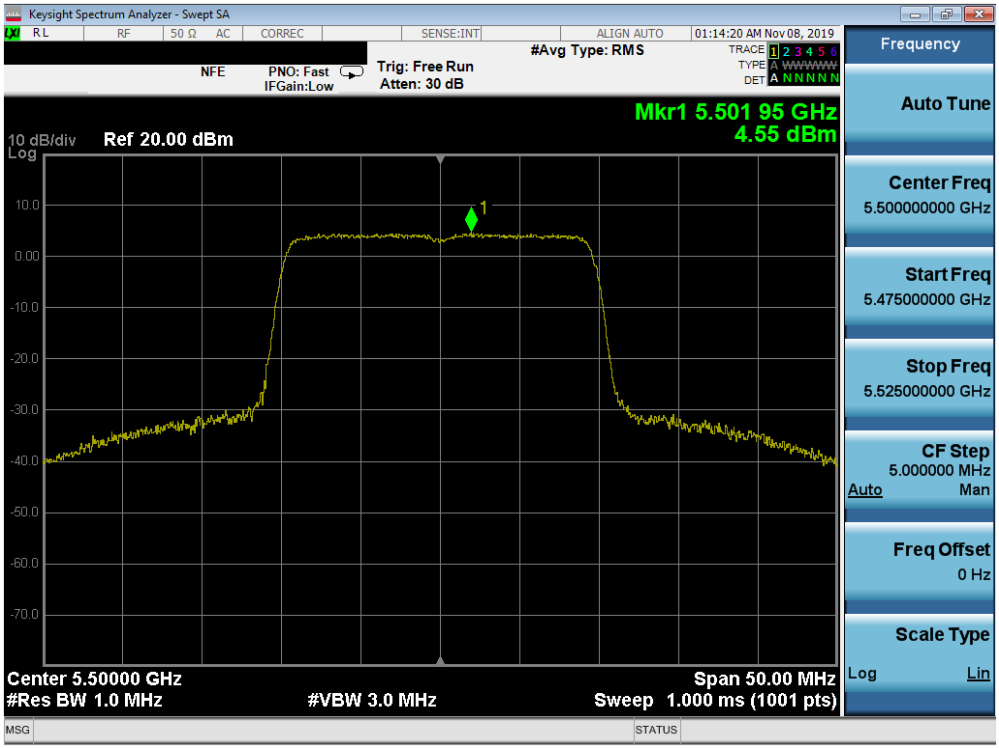
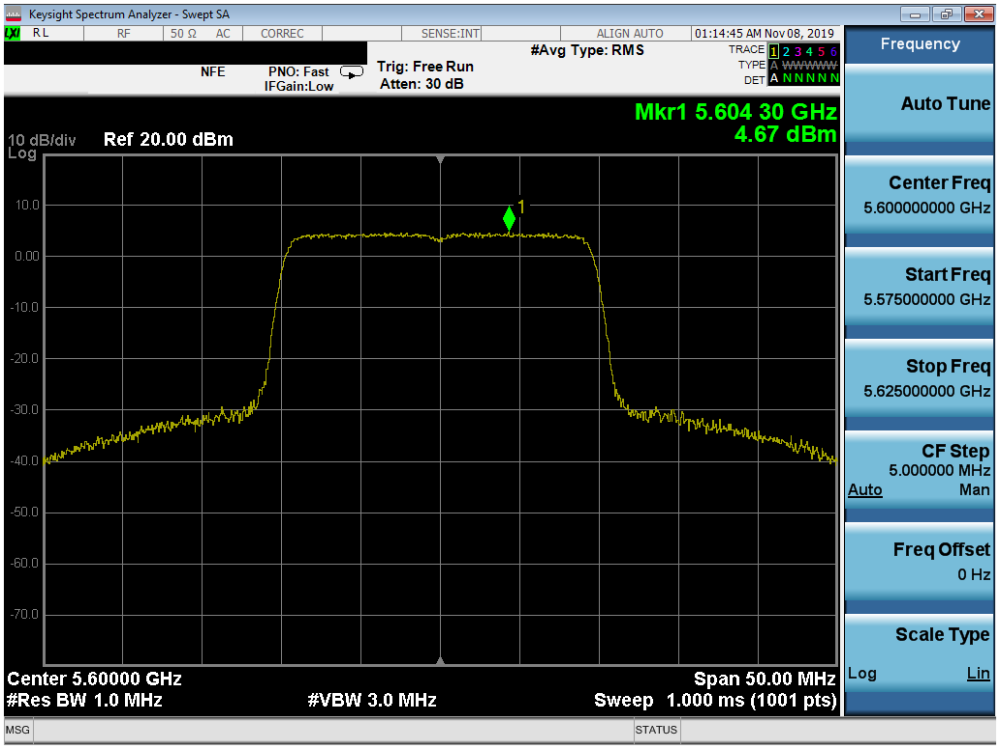


Plot 7-235. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 100)



Plot 7-236. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 120)

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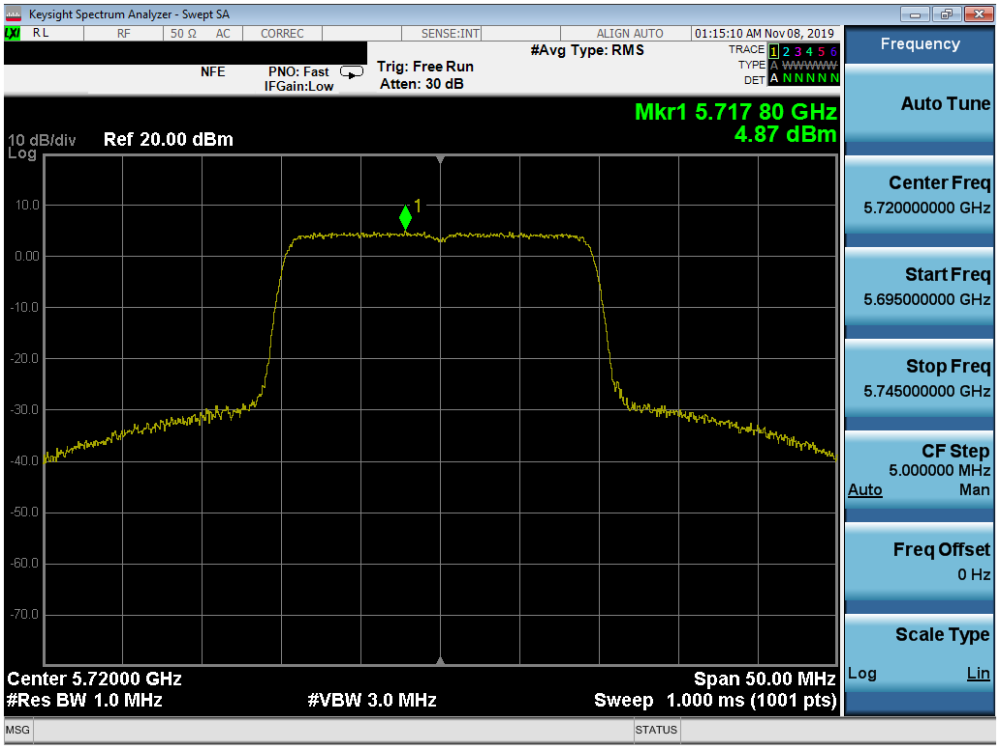
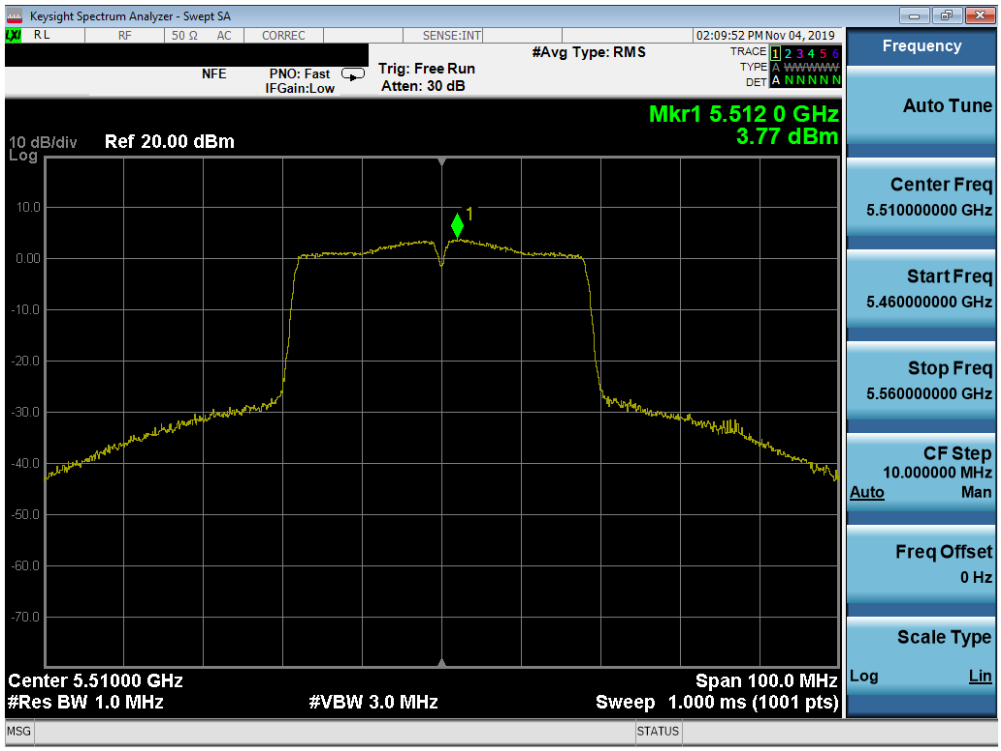


Plot 7-237. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 144)



Plot 7-238. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

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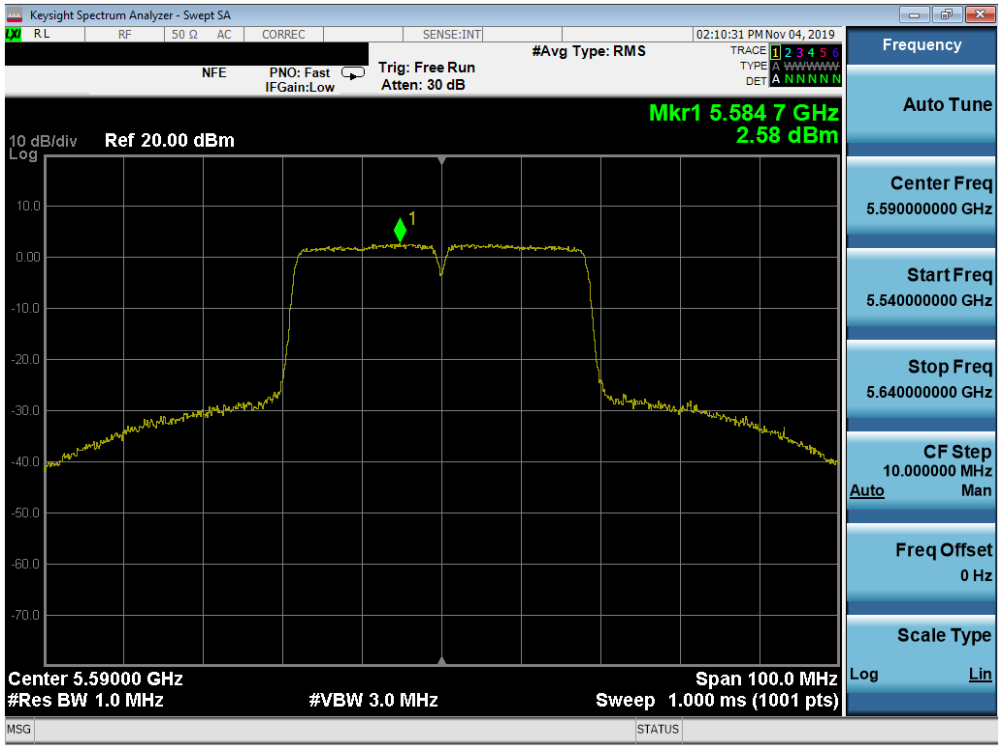
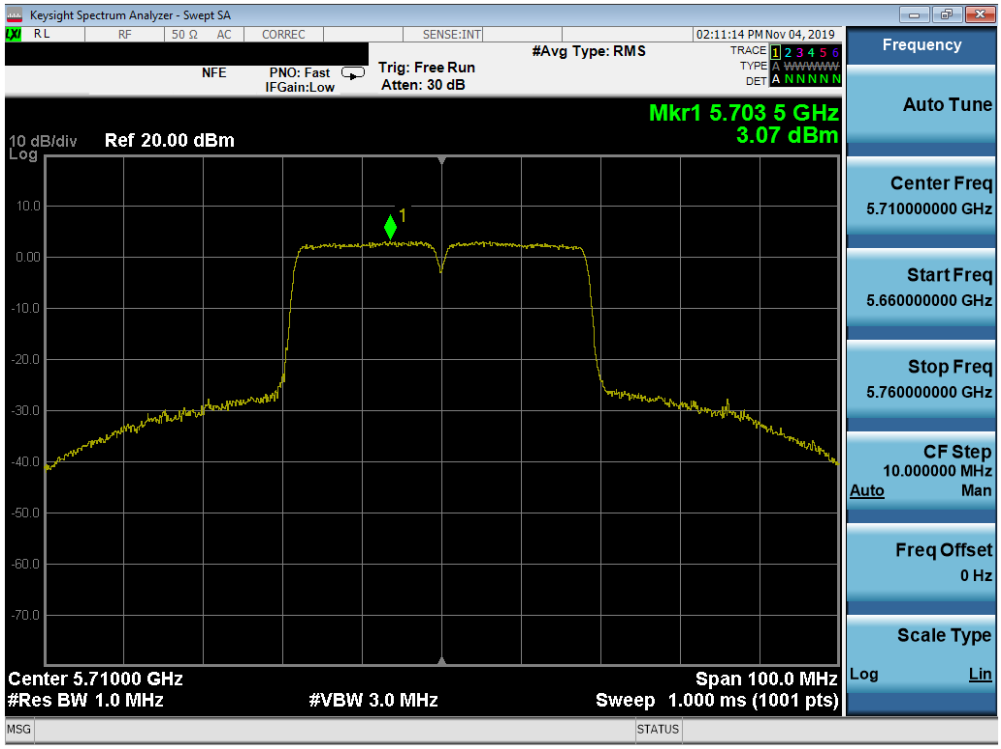


Plot 7-239. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) – Ch. 118)



Plot 7-240. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

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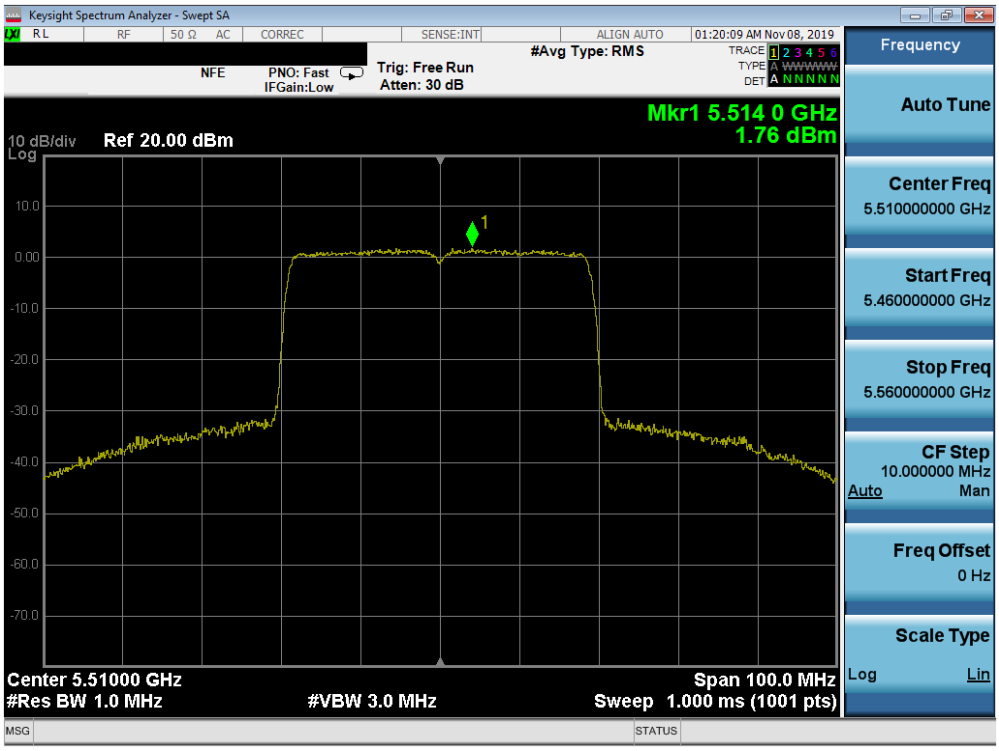
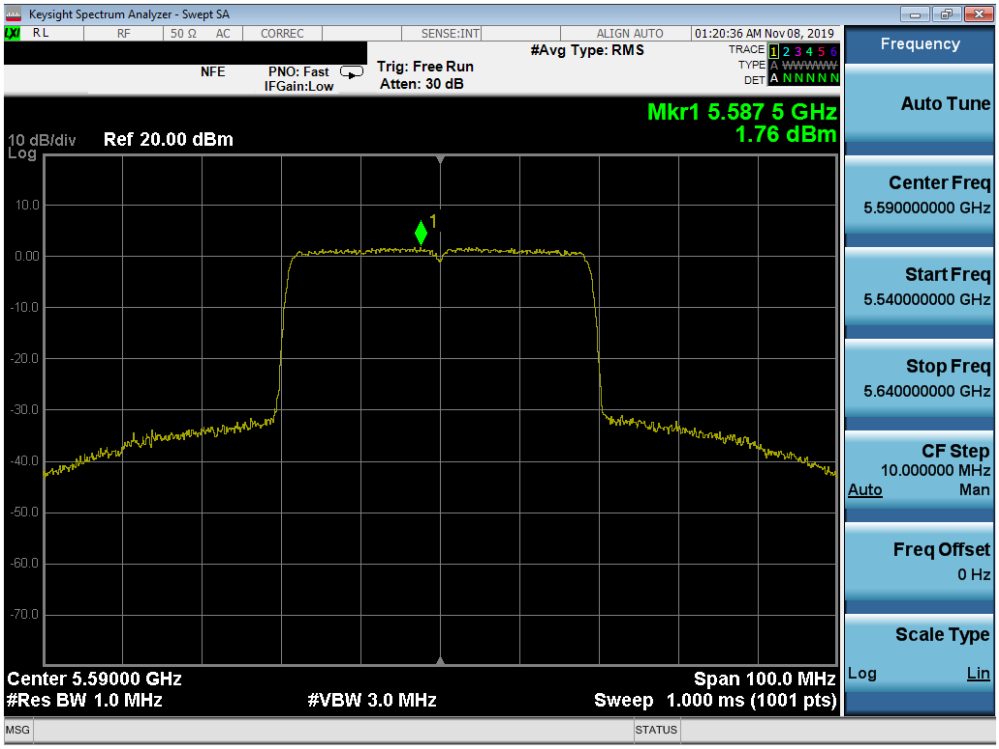


Plot 7-241. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 102)



Plot 7-242. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 118)

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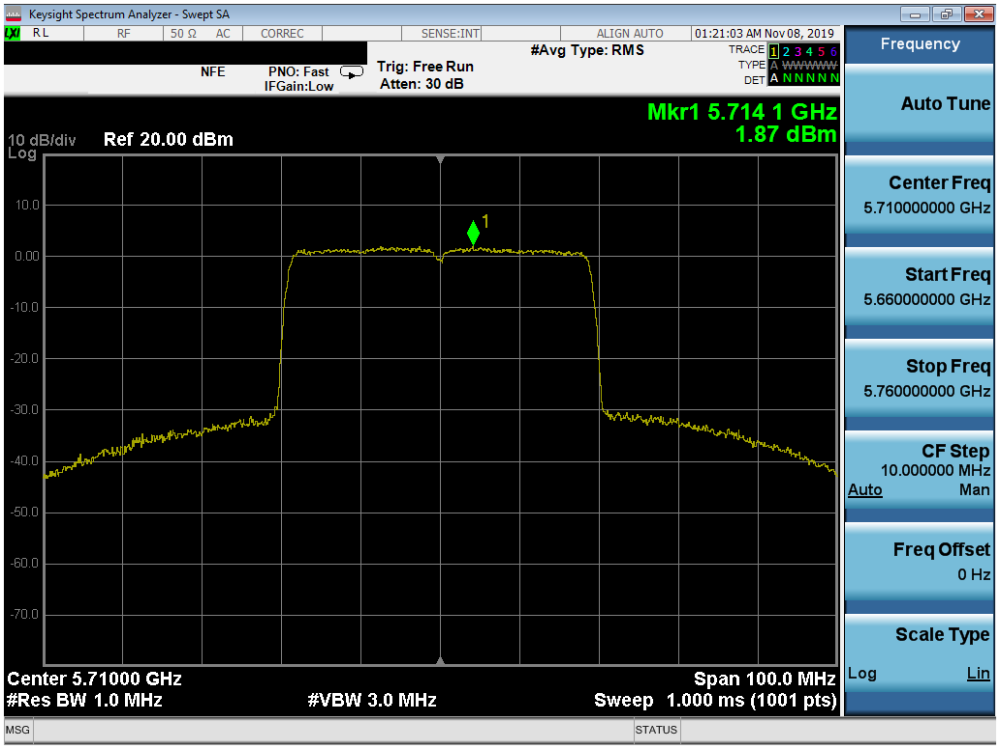
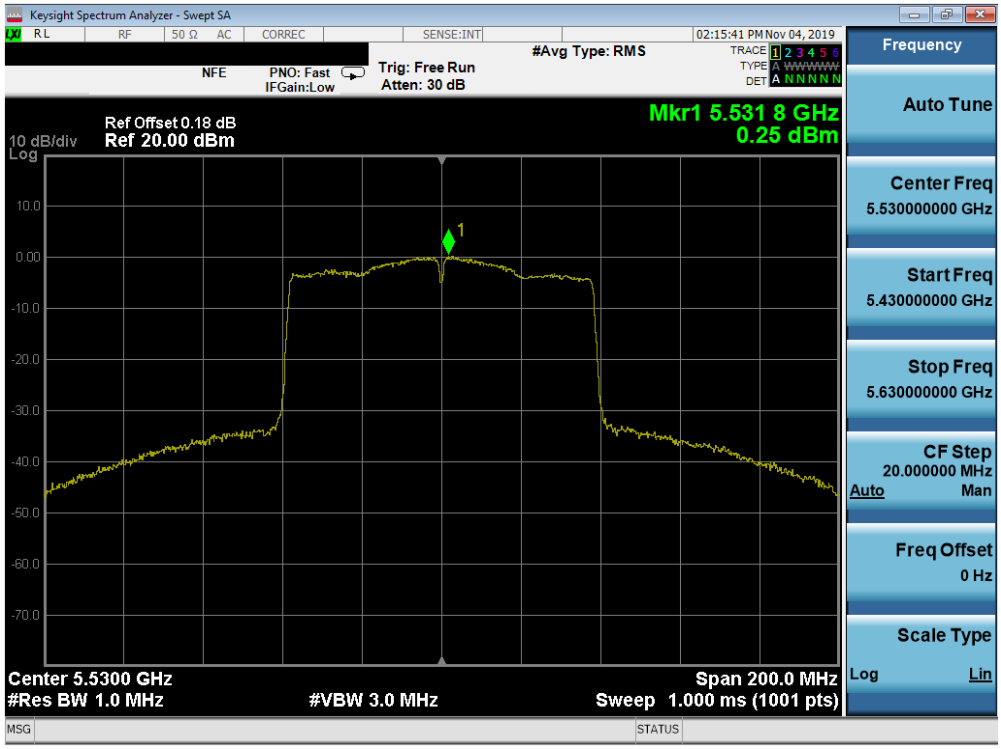


Plot 7-243. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 142)



Plot 7-244. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

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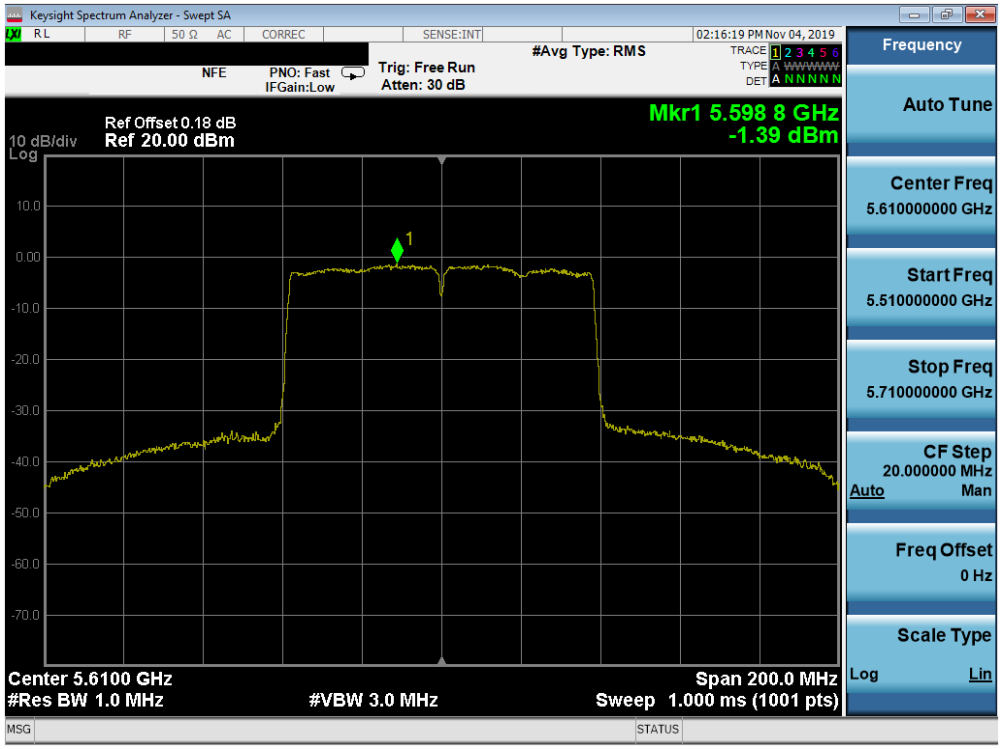
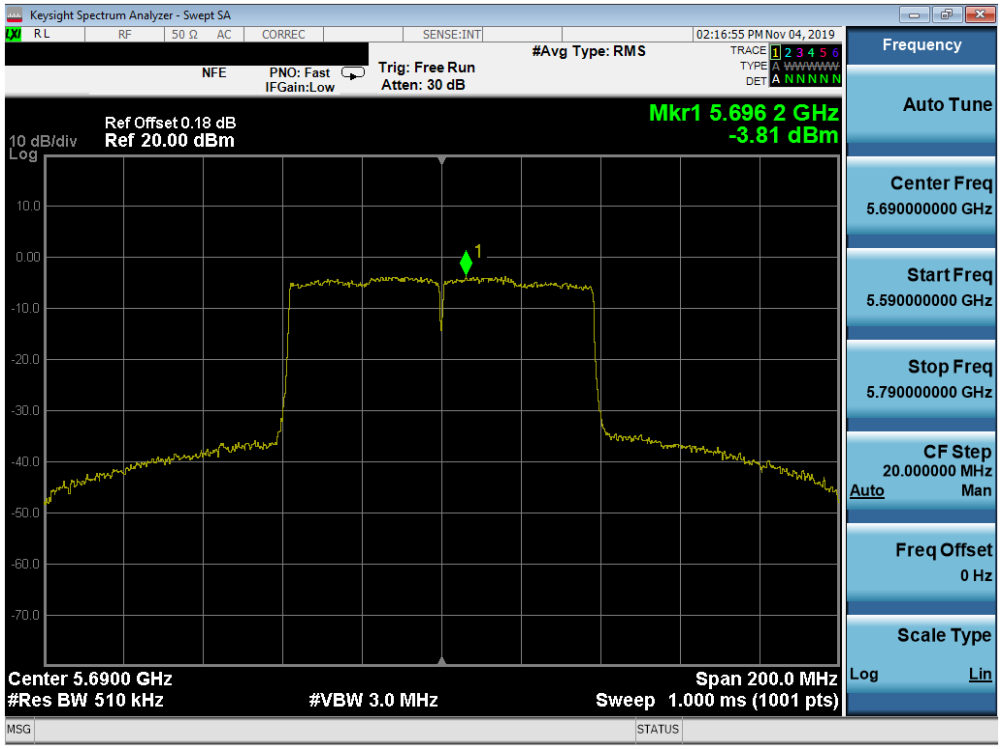


Plot 7-245. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 122)



Plot 7-246. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

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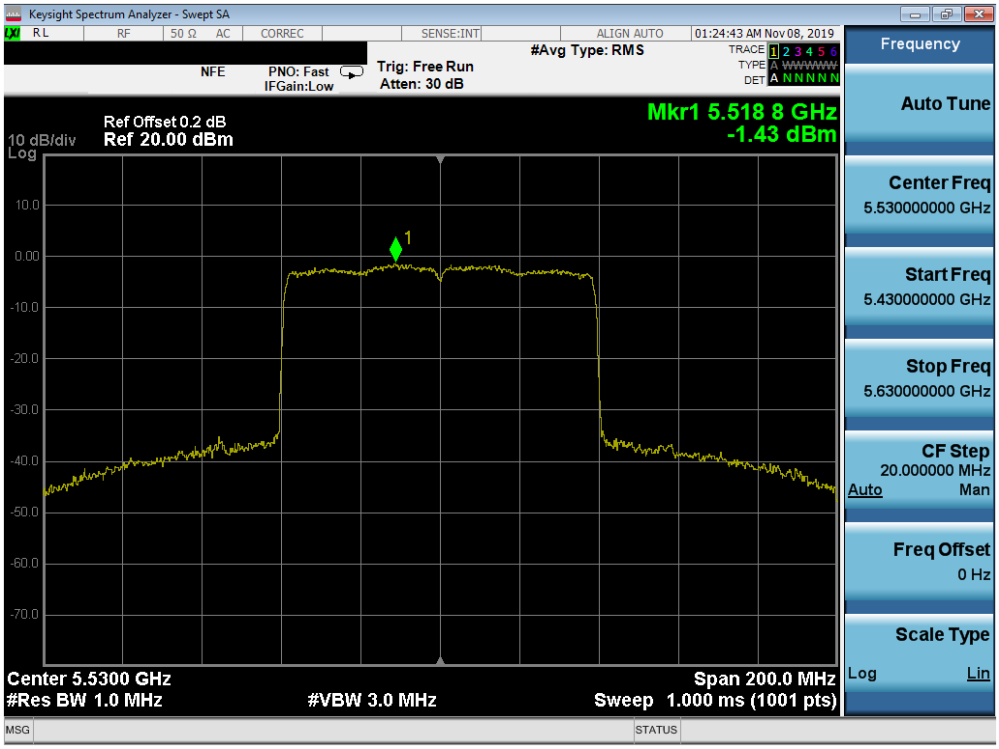
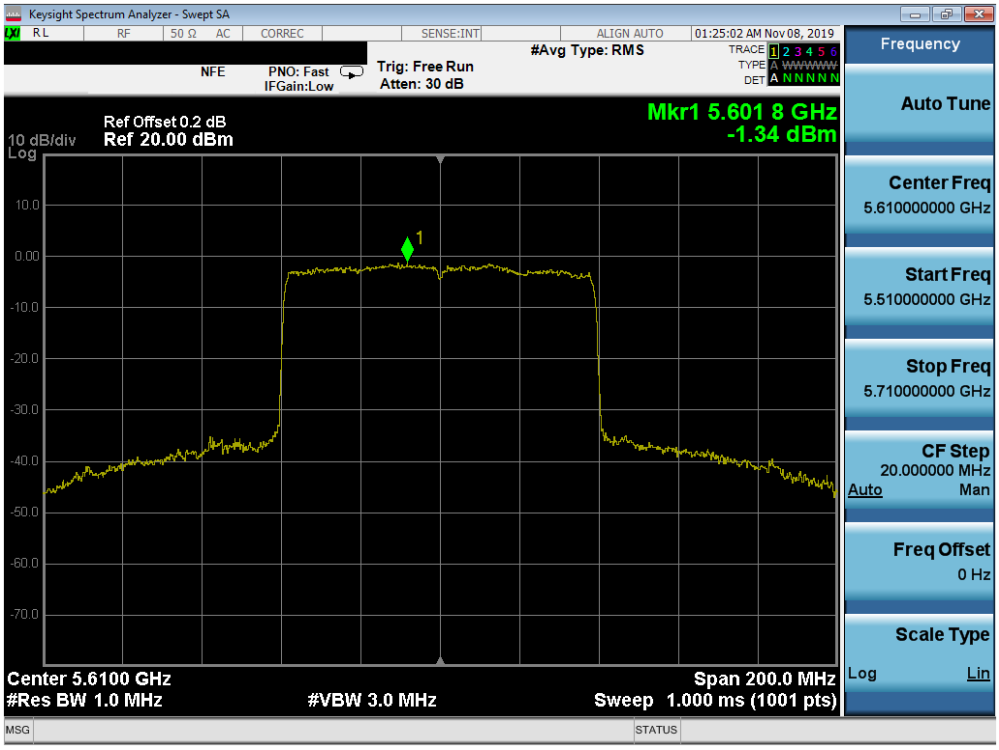


Plot 7-247. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) – Ch. 106)



Plot 7-248. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) – Ch. 122)

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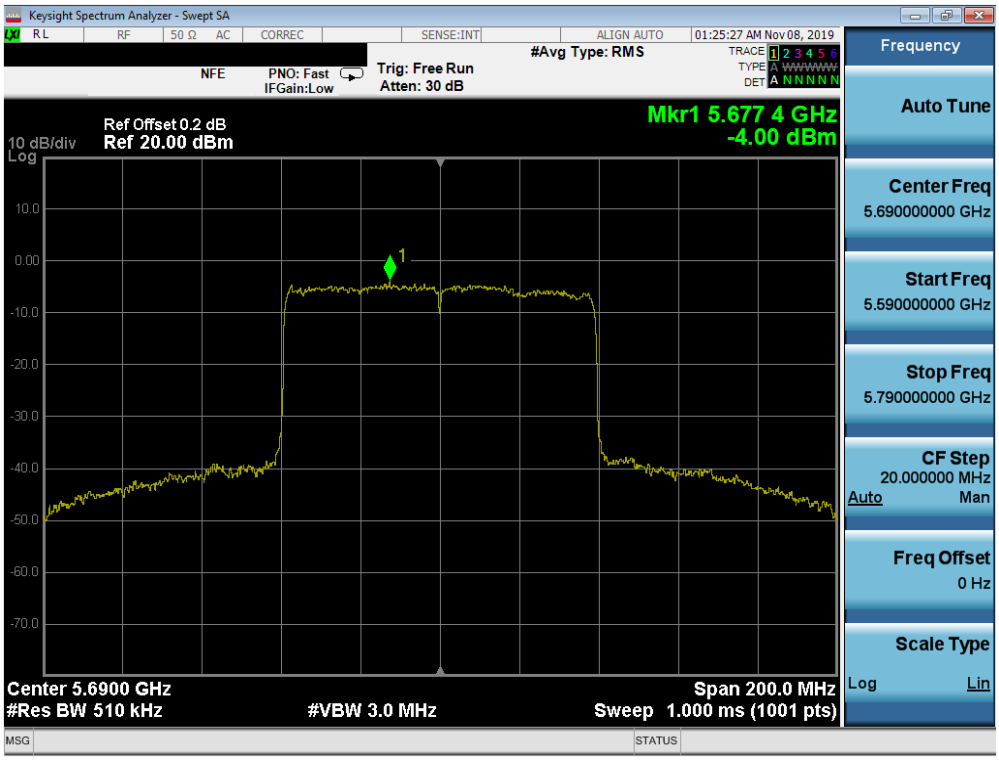

Plot 7-249. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) – Ch. 138)

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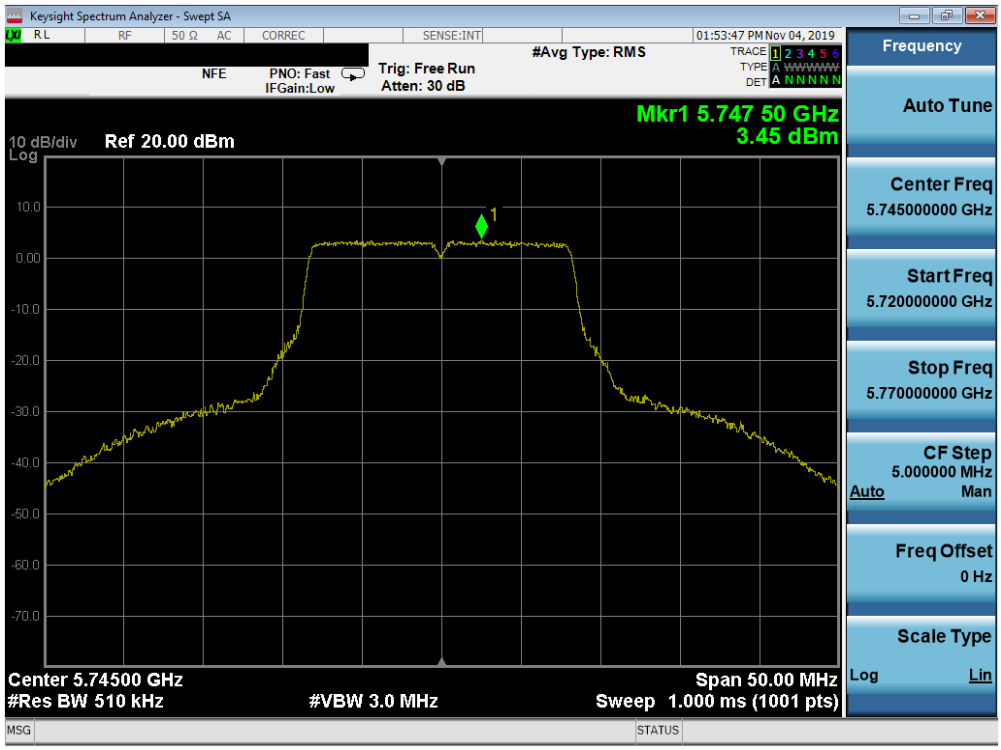
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	a	6	3.45	30.0	-26.55
	5785	157	a	6	3.45	30.0	-26.55
	5825	165	a	6	3.26	30.0	-26.74
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	3.24	30.0	-26.76
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	3.13	30.0	-26.87
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	3.10	30.0	-26.90
	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	2.09	30.0	-27.91
	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	2.20	30.0	-27.80
	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	2.09	30.0	-27.91
	5755	151	n (40MHz)	13.5/15 (MCS0)	0.37	30.0	-29.63
	5795	159	n (40MHz)	13.5/15 (MCS0)	0.43	30.0	-29.57
	5755	151	ax (40MHz)	13.5/15 (MCS0)	-0.86	30.0	-30.86
	5795	159	ax (40MHz)	13.5/15 (MCS0)	-0.88	30.0	-30.88
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-0.57	30.0	-30.57
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	-2.83	30.0	-32.83

Table 7-24. Band 3 Conducted Power Spectral Density Measurements SISO ANT2



Plot 7-250. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) – Ch. 149)

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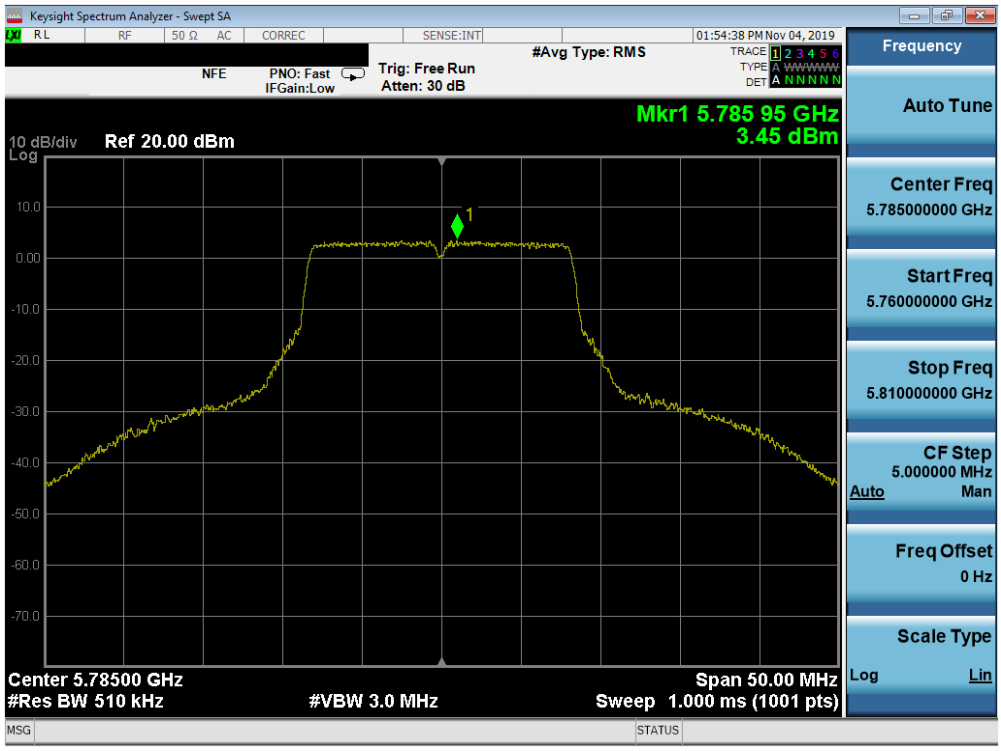
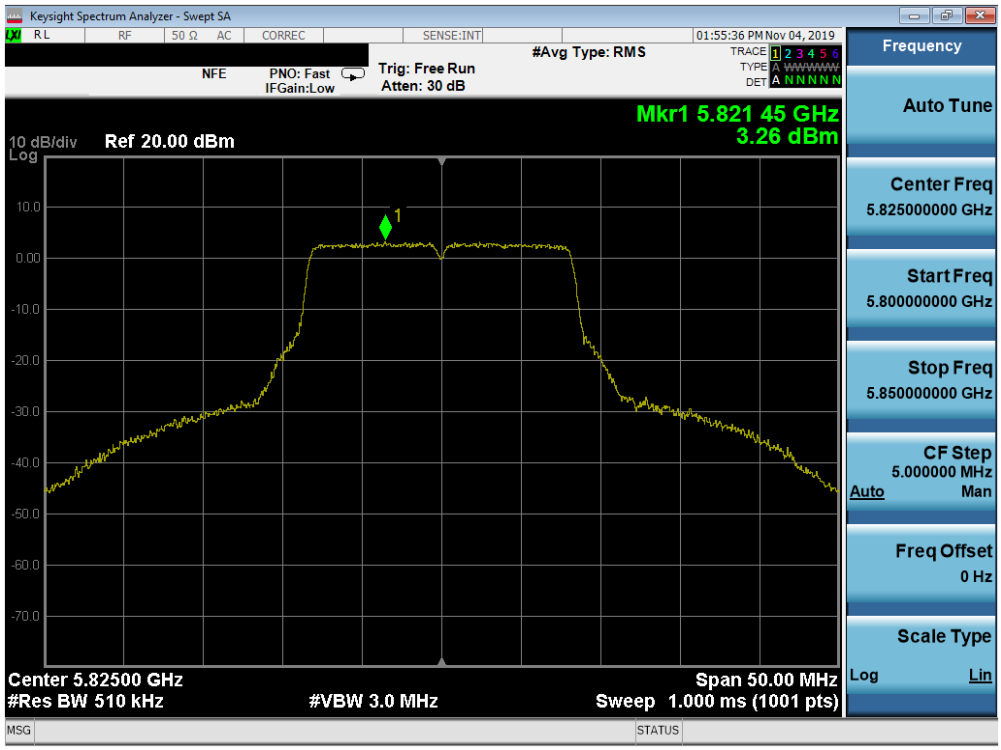


Plot 7-251. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) – Ch. 157)



Plot 7-252. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) – Ch. 165)

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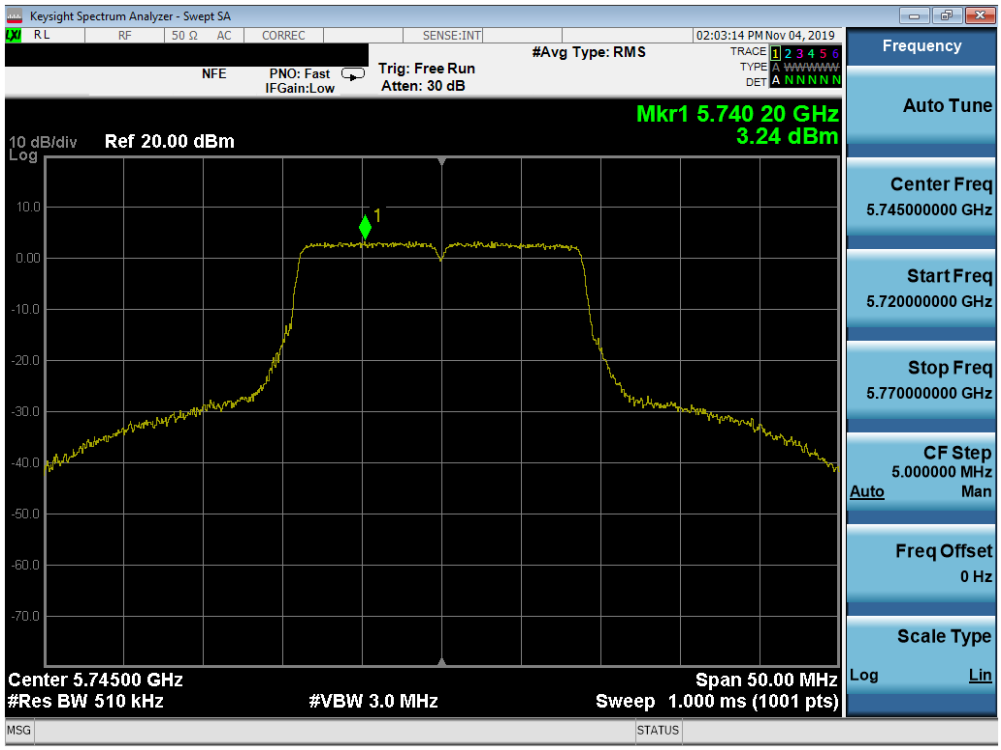
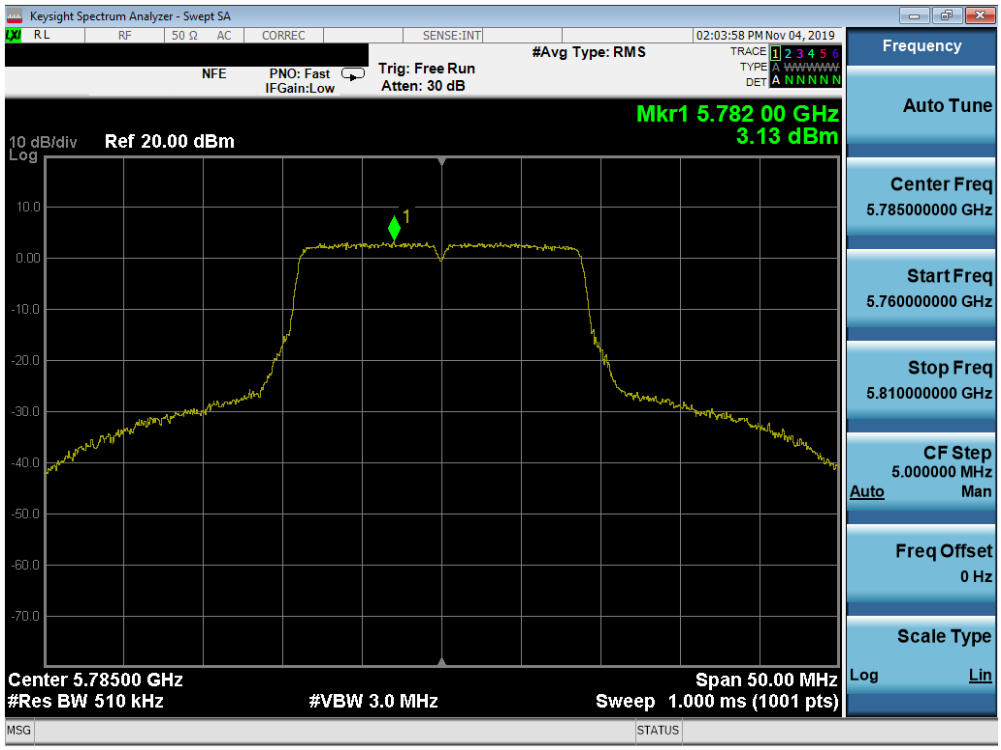


Plot 7-253. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 149)



Plot 7-254. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

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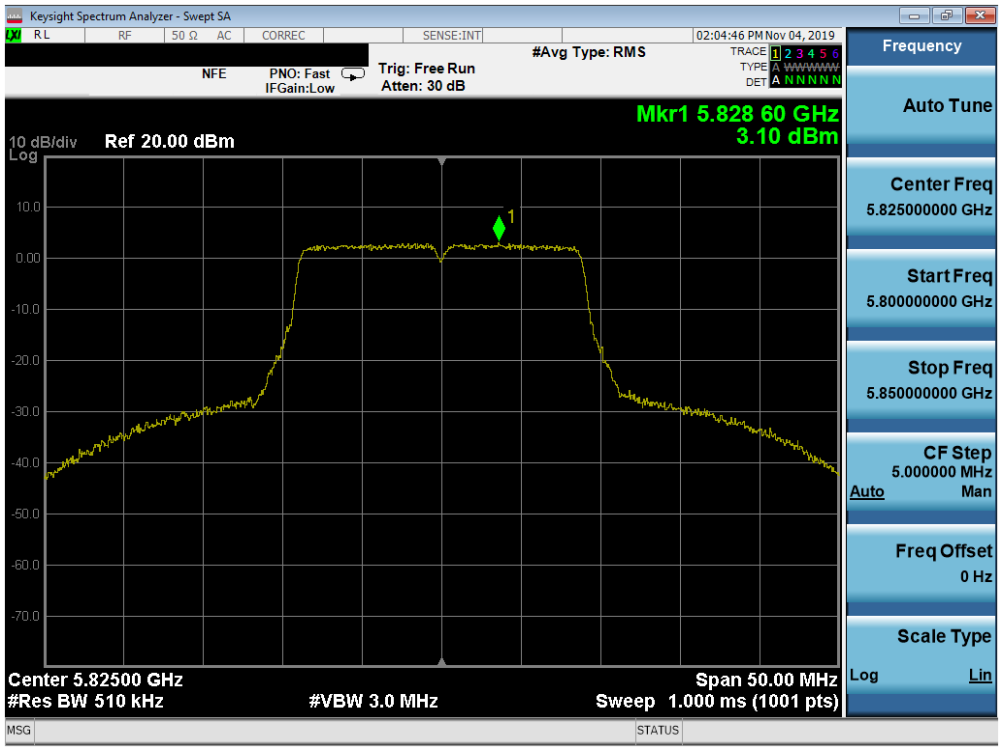
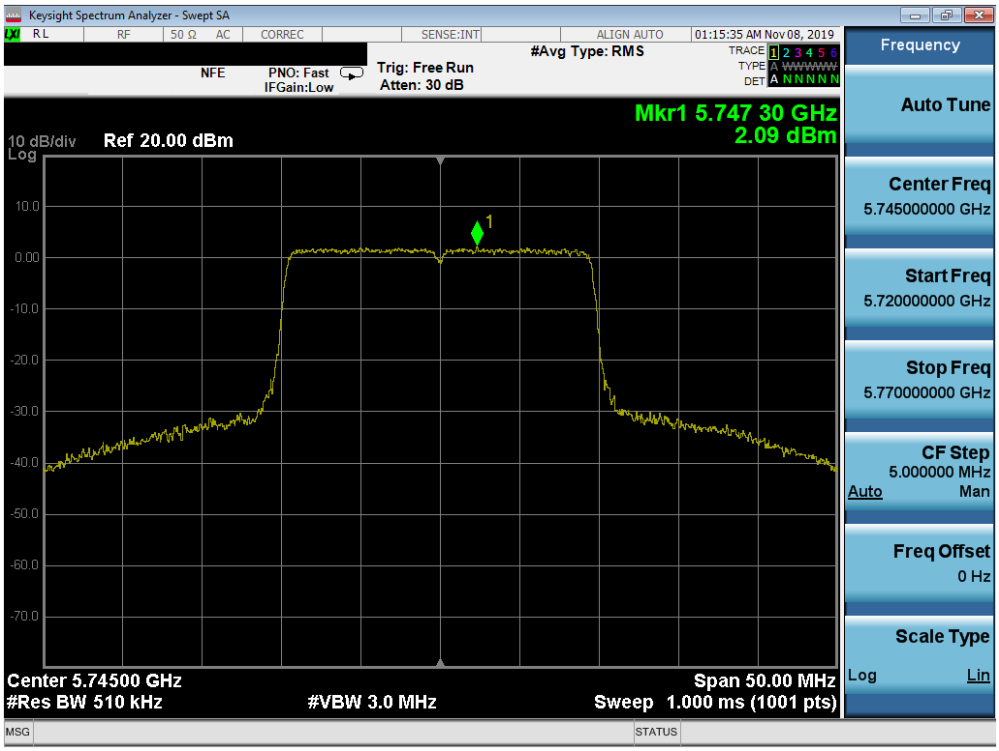


Plot 7-255. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 165)



Plot 7-256. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

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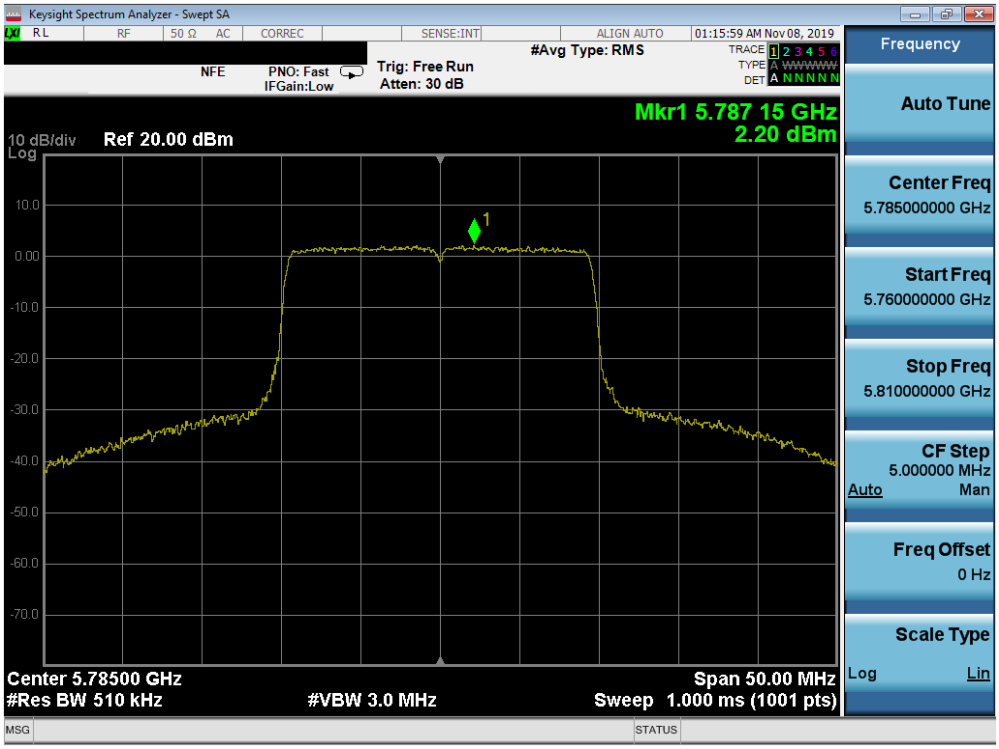
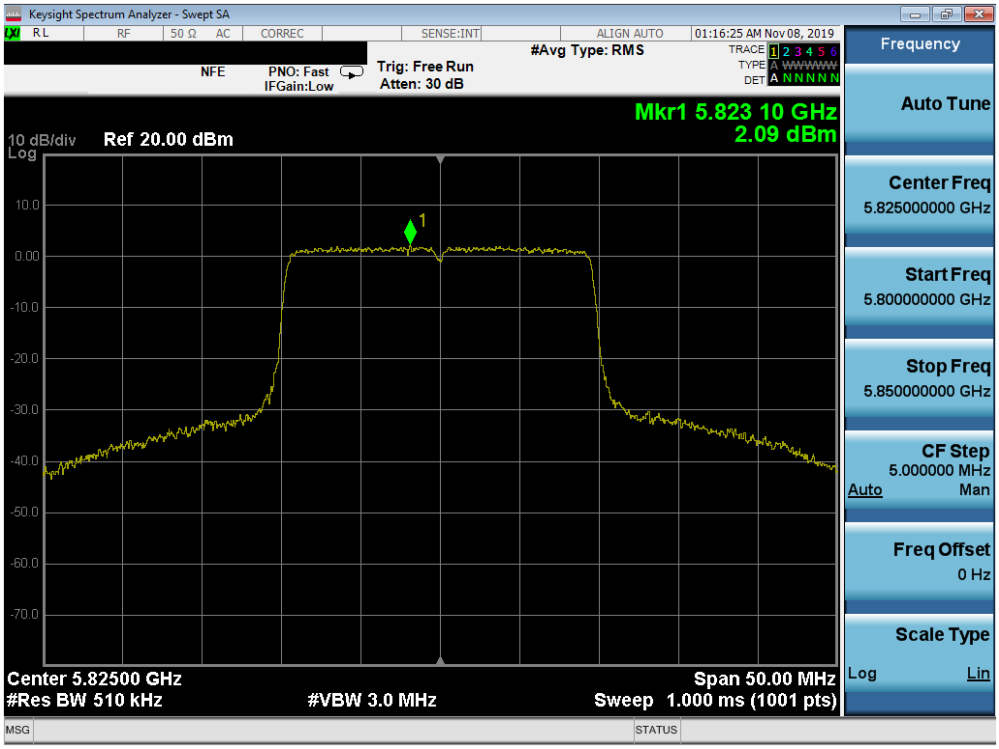


Plot 7-257. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)



Plot 7-258. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

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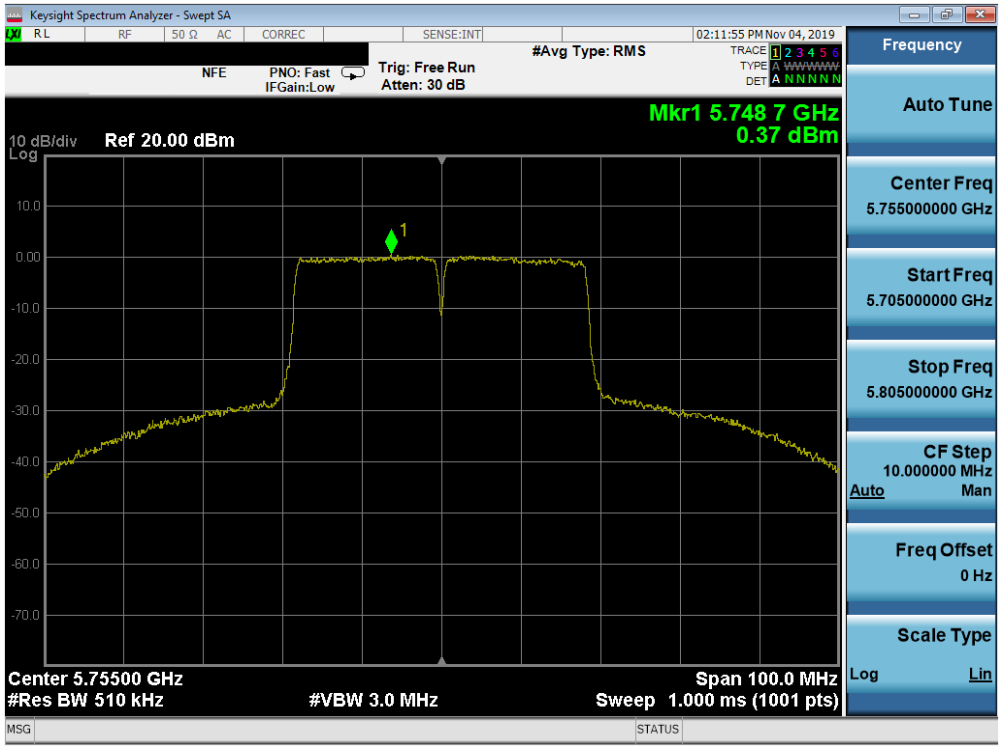
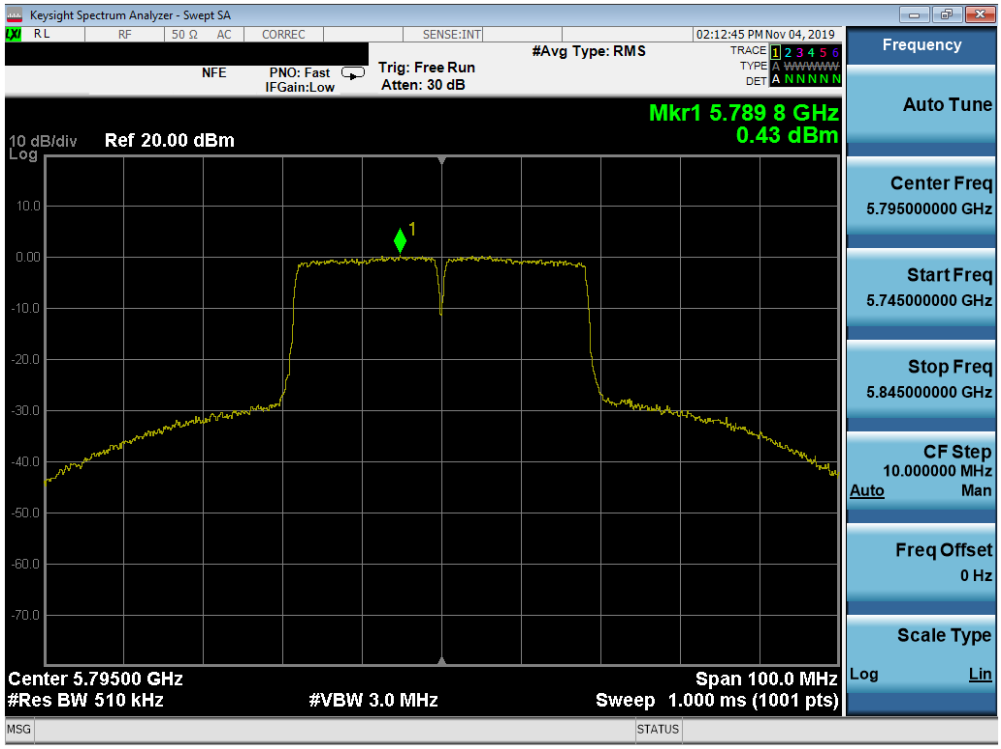


Plot 7-259. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)



Plot 7-260. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 3) – Ch. 159)

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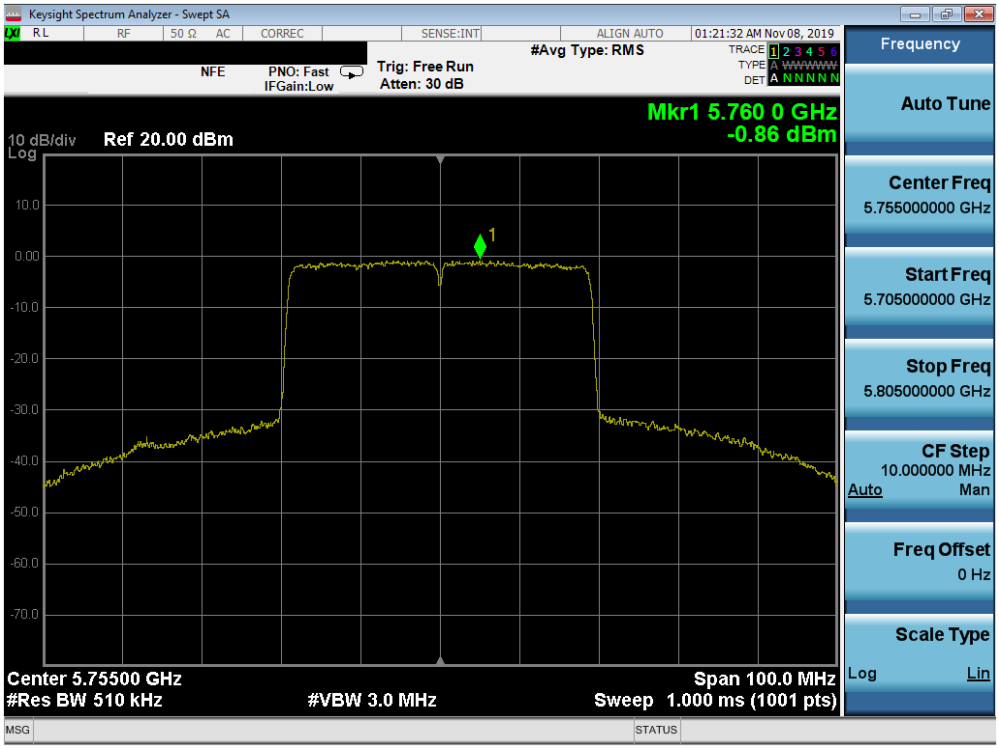
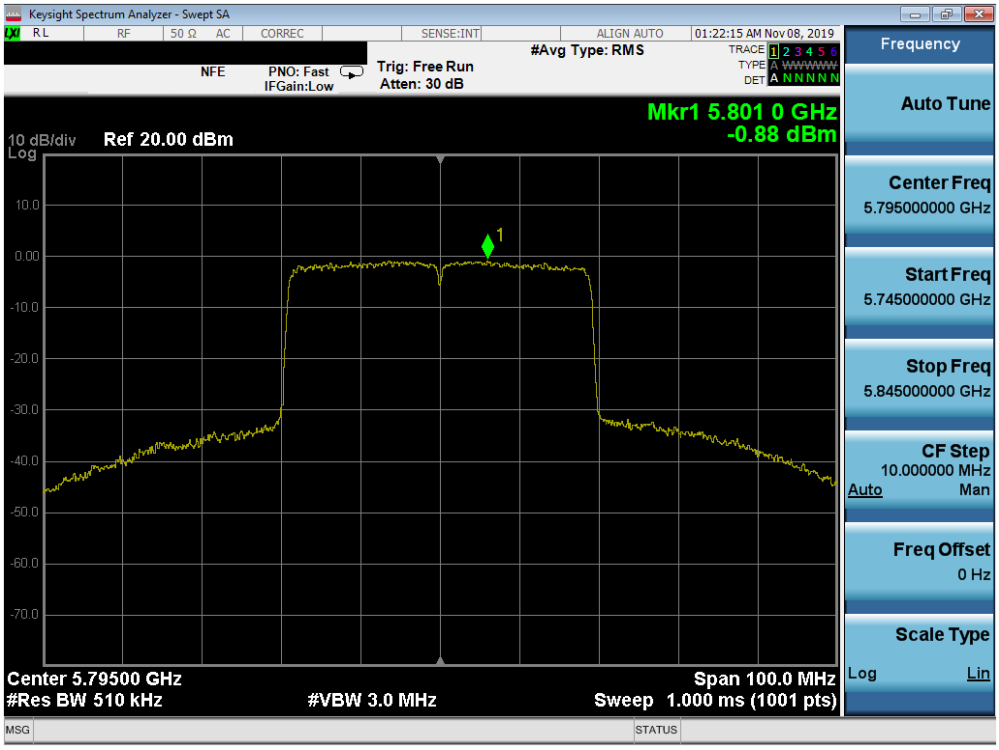


Plot 7-261. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ac (UNII Band 3) – Ch. 151)



Plot 7-262. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ac (UNII Band 3) – Ch. 159)

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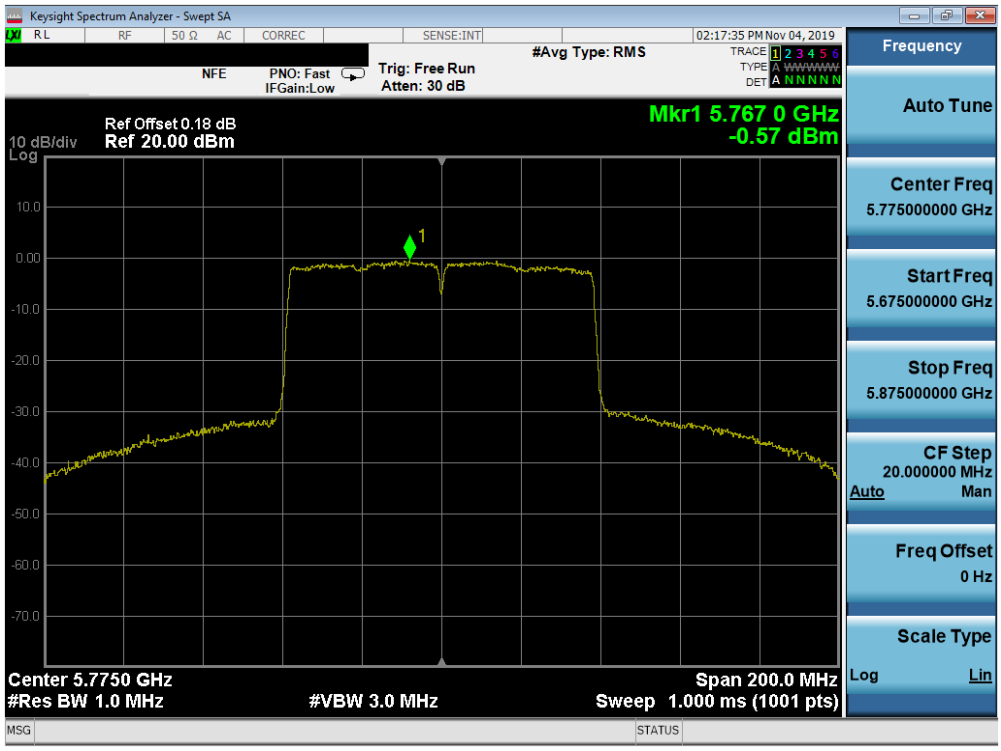
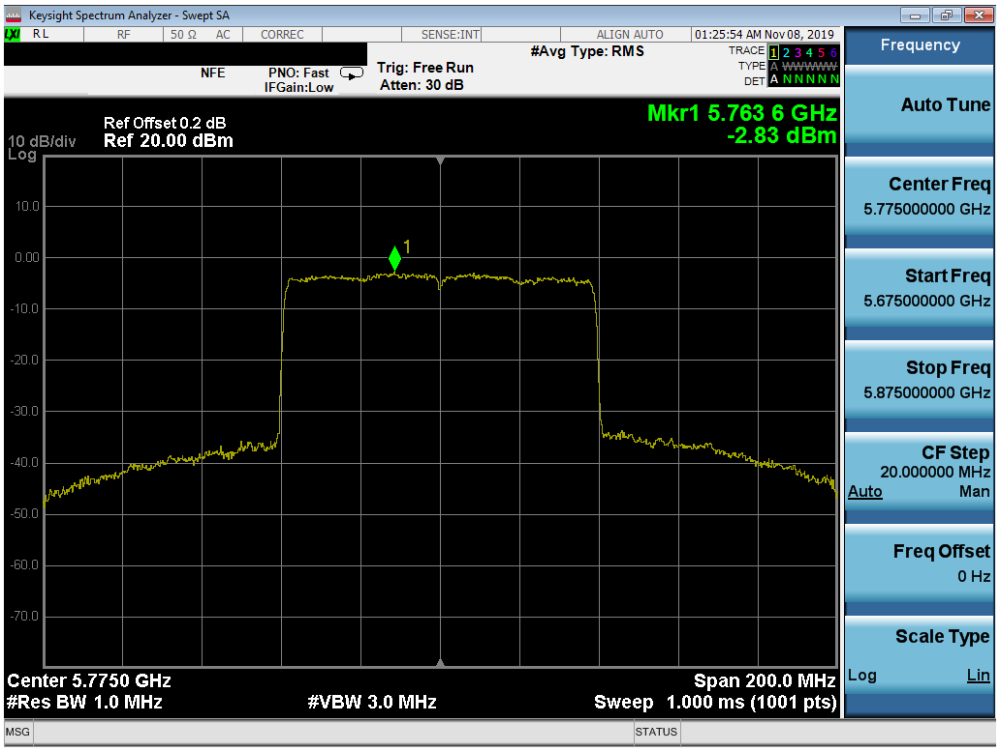


Plot 7-263. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)



Plot 7-264. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 3) – Ch. 155)

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Summed MIMO Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	6	7.89	6.75	10.37	11.0	-0.63
	5200	40	a	6	6.55	5.94	9.26	11.0	-1.74
	5240	48	a	6	7.28	5.96	9.68	11.0	-1.32
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	7.53	6.66	10.13	11.0	-0.87
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	6.53	5.63	9.11	11.0	-1.89
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	6.89	5.82	9.40	11.0	-1.60
	5180	36	ax (20MHz)	6.5/7.2 (MCS0)	3.83	4.89	7.40	11.0	-3.60
	5200	40	ax (20MHz)	6.5/7.2 (MCS0)	3.93	4.79	7.39	11.0	-3.61
	5240	48	ax (20MHz)	6.5/7.2 (MCS0)	4.60	4.76	7.69	11.0	-3.31
	5190	38	n (40MHz)	13.5/15 (MCS0)	3.68	3.72	6.71	11.0	-4.29
	5230	46	n (40MHz)	13.5/15 (MCS0)	3.01	3.13	6.08	11.0	-4.92
	5190	38	ax (40MHz)	13.5/15 (MCS0)	1.87	1.75	4.82	11.0	-6.18
	5230	46	ax (40MHz)	13.5/15 (MCS0)	2.09	1.79	4.95	11.0	-6.05
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-0.27	-0.08	2.84	11.0	-8.16
	5210	42	ax (80MHz)	29.3/32.5 (MCS0)	-1.82	-2.33	0.94	11.0	-10.06
Band 2A	5260	52	a	6	7.09	5.84	9.52	11.0	-1.48
	5280	56	a	6	6.89	5.89	9.43	11.0	-1.57
	5320	64	a	6	7.96	7.02	10.53	11.0	-0.47
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	6.45	5.67	9.09	11.0	-1.91
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	6.34	5.59	8.99	11.0	-2.01
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	7.62	6.97	10.32	11.0	-0.68
	5260	52	ax (20MHz)	6.5/7.2 (MCS0)	4.61	4.63	7.63	11.0	-3.37
	5280	56	ax (20MHz)	6.5/7.2 (MCS0)	4.55	4.53	7.55	11.0	-3.45
	5320	64	ax (20MHz)	6.5/7.2 (MCS0)	4.57	4.71	7.65	11.0	-3.35
	5270	54	n (40MHz)	13.5/15 (MCS0)	2.60	2.80	5.71	11.0	-5.29
	5310	62	n (40MHz)	13.5/15 (MCS0)	3.56	4.00	6.80	11.0	-4.20
	5270	54	ax (40MHz)	13.5/15 (MCS0)	2.07	1.60	4.85	11.0	-6.15
	5310	62	ax (40MHz)	13.5/15 (MCS0)	1.67	1.80	4.75	11.0	-6.25
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-0.55	-0.75	2.36	11.0	-8.64
	5290	58	ax (80MHz)	29.3/32.5 (MCS0)	-2.00	-2.34	0.84	11.0	-10.16
Band 2C	5500	100	a	6	7.74	7.01	10.40	11.0	-0.60
	5600	120	a	6	6.80	5.91	9.39	11.0	-1.61
	5720	144	a	6	7.17	6.22	9.73	11.0	-1.27
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	7.73	6.66	10.24	11.0	-0.76
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	6.40	5.74	9.09	11.0	-1.91
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	6.85	5.93	9.42	11.0	-1.58
	5500	100	ax (20MHz)	6.5/7.2 (MCS0)	4.66	4.55	7.62	11.0	-3.38
	5600	120	ax (20MHz)	6.5/7.2 (MCS0)	4.52	4.67	7.61	11.0	-3.39
	5720	144	ax (20MHz)	6.5/7.2 (MCS0)	4.93	4.87	7.91	11.0	-3.09
	5510	102	n (40MHz)	13.5/15 (MCS0)	3.88	3.77	6.84	11.0	-4.16
	5590	118	n (40MHz)	13.5/15 (MCS0)	2.36	2.58	5.48	11.0	-5.52
	5710	142	n (40MHz)	13.5/15 (MCS0)	2.65	3.07	5.88	11.0	-5.12
	5510	102	ax (40MHz)	13.5/15 (MCS0)	2.95	1.76	5.41	11.0	-5.59
	5590	118	ax (40MHz)	13.5/15 (MCS0)	1.29	1.76	4.54	11.0	-6.46
	5710	142	ax (40MHz)	13.5/15 (MCS0)	1.82	1.87	4.86	11.0	-6.14
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-0.38	0.25	2.96	11.0	-8.04
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-2.01	-1.39	1.32	11.0	-9.68
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-4.22	-3.81	-1.00	11.0	-12.00
	5530	106	ax (80MHz)	29.3/32.5 (MCS0)	-1.73	-1.43	1.43	11.0	-9.57
	5610	122	ax (80MHz)	29.3/32.5 (MCS0)	-2.25	-1.34	1.24	11.0	-9.76
	5690	138	ax (80MHz)	29.3/32.5 (MCS0)	-4.98	-4.00	-1.45	11.0	-12.45

Table 7-25. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements

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	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenn-1 Power Density [dBm]	Antenn-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	a	6	4.31	3.45	6.91	30.0	-23.09
	5785	157	a	6	4.18	3.45	6.84	30.0	-23.16
	5825	165	a	6	4.40	3.26	6.88	30.0	-23.12
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	3.91	3.24	6.60	30.0	-23.40
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	3.70	3.13	6.43	30.0	-23.57
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	3.72	3.10	6.43	30.0	-23.57
	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	2.55	2.09	5.34	30.0	-24.66
	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	2.55	2.20	5.39	30.0	-24.61
	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	-0.65	2.09	3.94	30.0	-26.06
	5755	151	n (40MHz)	13.5/15 (MCS0)	0.04	0.37	3.22	30.0	-26.78
	5795	159	n (40MHz)	13.5/15 (MCS0)	-0.40	0.43	3.05	30.0	-26.95
	5755	151	ax (40MHz)	13.5/15 (MCS0)	-0.59	-0.86	2.29	30.0	-27.71
	5795	159	ax (40MHz)	13.5/15 (MCS0)	0.34	-0.88	2.78	30.0	-27.22
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-1.43	-0.57	2.03	30.0	-27.97
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	-2.24	-2.83	0.49	30.0	-29.51

Table 7-26. Band 3 MIMO Conducted Power Spectral Density Measurements

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Note:

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna 1 and Antenna 2 were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample MIMO Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted power spectral density was measured to be 7.53 dBm for Antenna-1 and 6.66 dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

(7.53 dBm + 6.66 dBm) = (5.66 mW + 4.63 mW) = 10.29 mW = 10.13 dBm

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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. 802.11a, 802.11n (20MHz BW), 802.11n (40MHz BW), and 802.11ac (80MHz)), 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 7-27 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-27. 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.

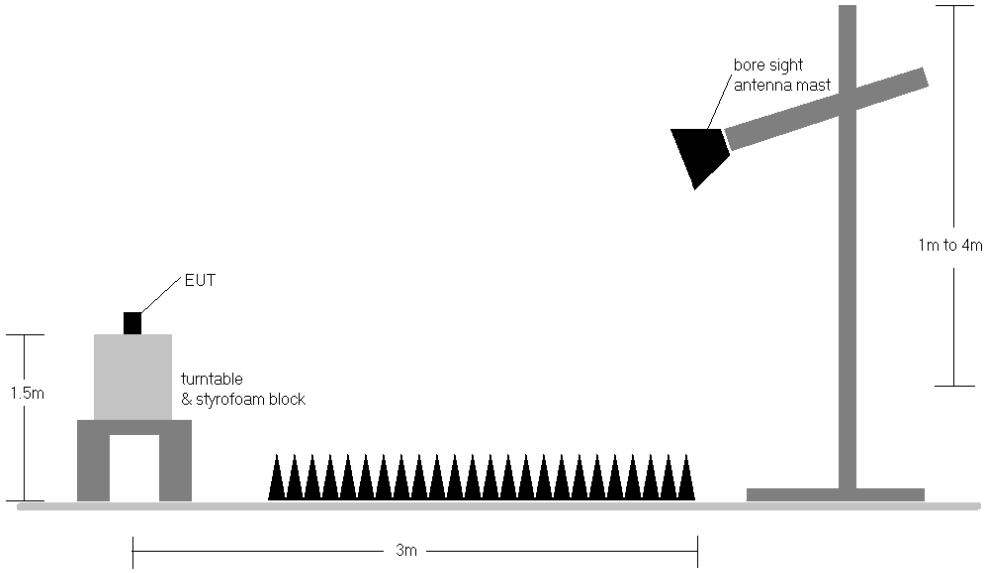

Figure 7-5. Test Instrument & Measurement Setup

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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 7-27.
2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-27. 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. Radiated spurious emissions were investigated while operating in MIMO mode, however, it was determined that single antenna operation produced the worst case emissions. Since the emissions produced from MIMO operation were found to be more than 20dB below the limit, the MIMO emissions are not reported.
8. 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.
9. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

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 was calculated using the formula:

  Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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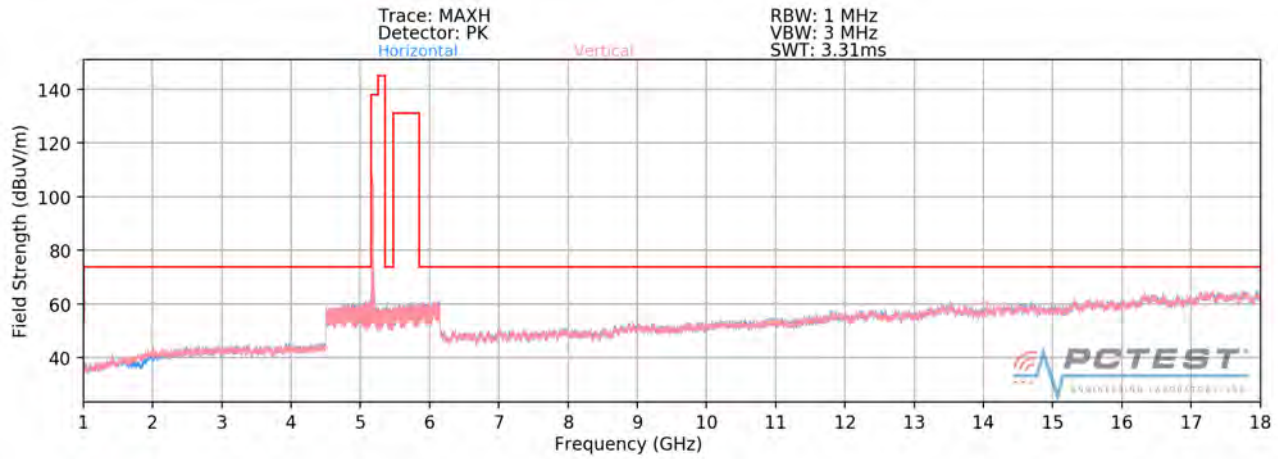
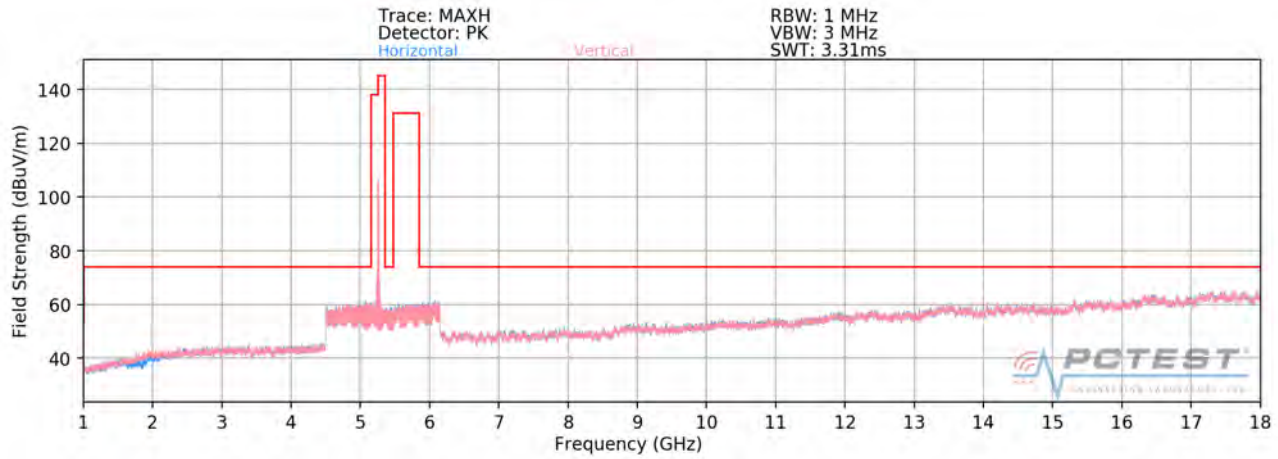
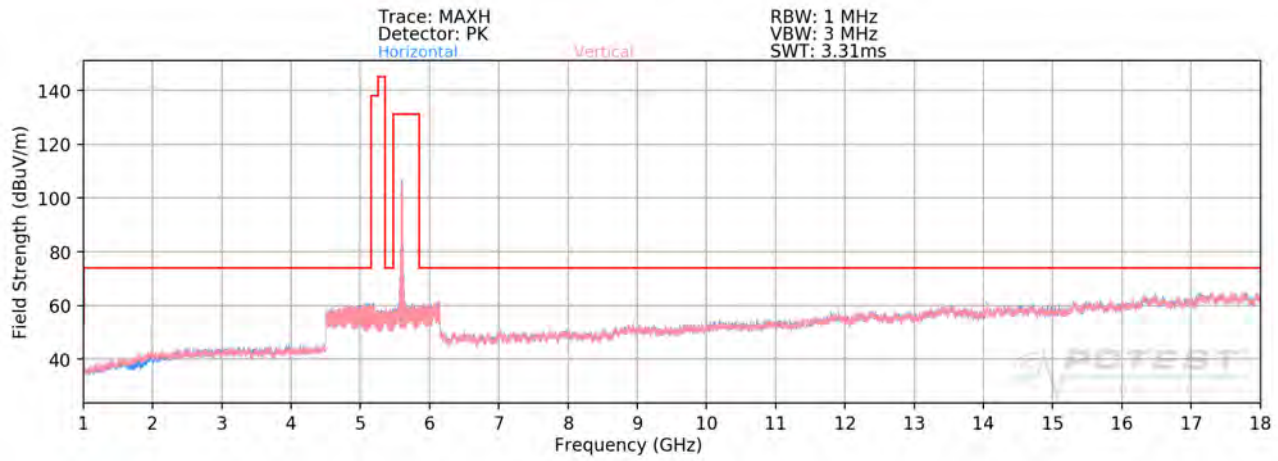
7.5.1 SISO Antenna-1 Radiated Spurious Emission Measurements



Plot 7-265. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U1 Ch. 40)



Plot 7-266. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U2A Ch. 56)



Plot 7-267. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U2C Ch. 120)

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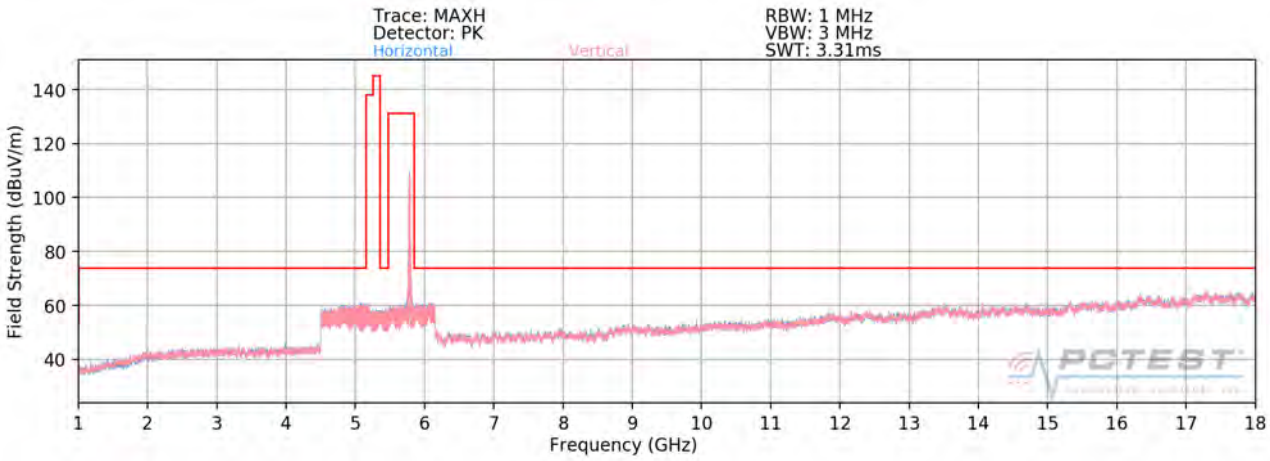

Plot 7-268. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U3 Ch. 157)

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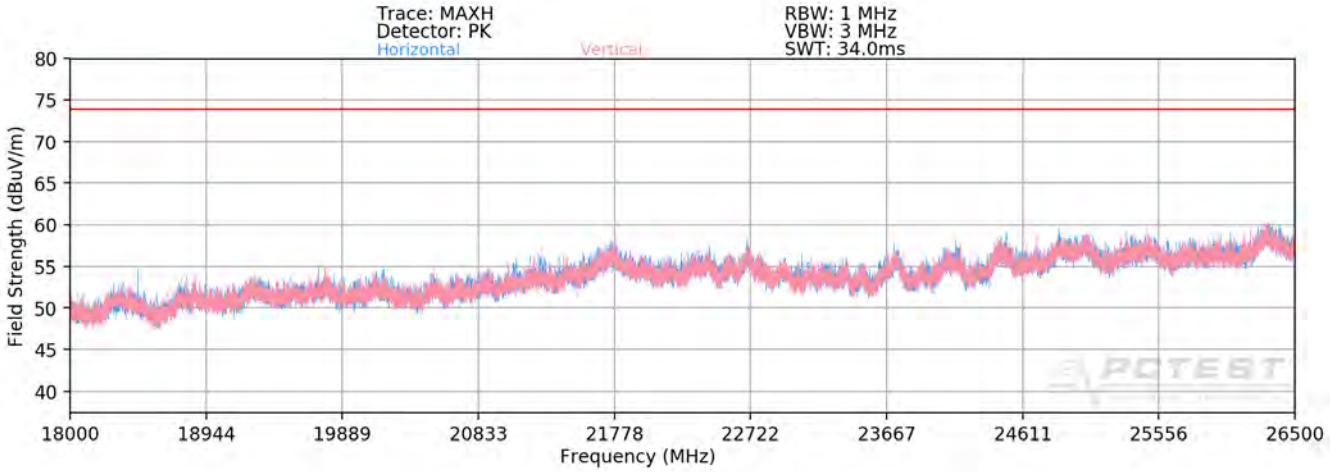
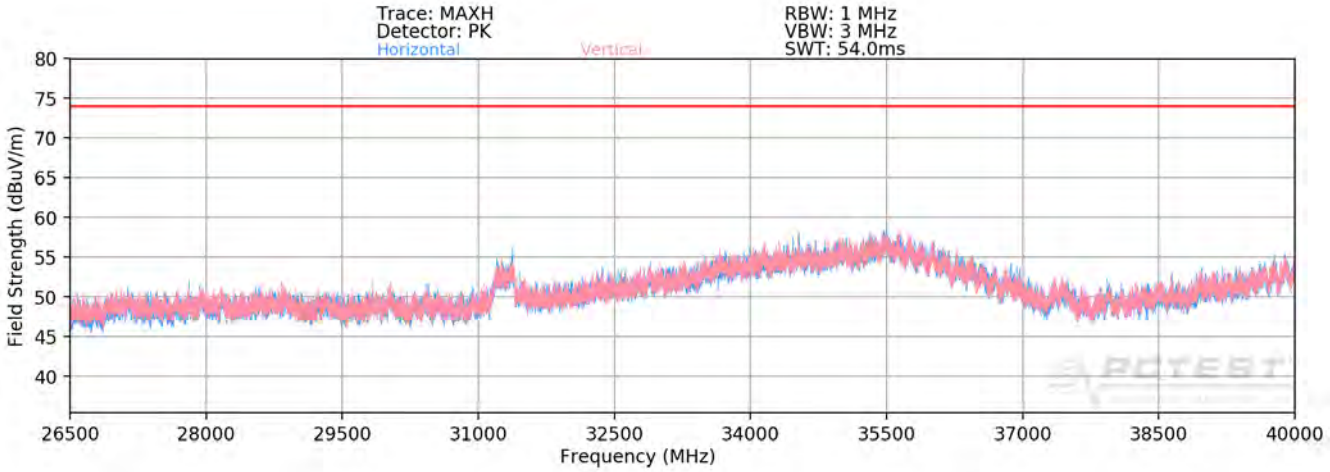
SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-269. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11a)



Plot 7-270. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11a)

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SISO Antenna-1 Radiated Spurious Emission Measurements

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

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	122	48	-67.33	11.41	0.00	51.08	68.20	-17.12
*	15540.00	Average	H	123	270	-78.15	13.23	0.00	42.08	53.98	-11.90
*	15540.00	Peak	H	123	270	-65.93	13.23	0.00	54.30	73.98	-19.68
*	20720.00	Average	H	-	-	-78.35	17.51	-9.54	36.62	53.98	-17.36
*	20720.00	Peak	H	-	-	-67.16	17.51	-9.54	47.81	73.98	-26.17
	25900.00	Peak	H	-	-	-65.02	19.88	-9.54	52.32	68.20	-15.88

Table 7-28. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	115	53	-66.62	11.17	0.00	51.55	68.20	-16.65
*	15600.00	Average	H	111	270	-77.67	12.81	0.00	42.14	53.98	-11.84
*	15600.00	Peak	H	111	270	-64.99	12.81	0.00	54.82	73.98	-19.16
*	20800.00	Average	H	-	-	-78.26	17.87	-9.54	37.06	53.98	-16.92
*	20800.00	Peak	H	-	-	-66.90	17.87	-9.54	48.42	73.98	-25.56
	26000.00	Peak	H	-	-	-64.34	20.15	-9.54	53.26	68.20	-14.94

Table 7-29. Radiated Measurements SISO ANT1

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Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
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	293	54	-66.16	11.37	0.00	52.21	68.20	-15.99
*	15720.00	Average	H	112	271	-78.24	15.18	0.00	43.94	53.98	-10.04
*	15720.00	Peak	H	112	271	-66.21	15.18	0.00	55.97	73.98	-18.01
*	20960.00	Average	H	-	-	-78.23	18.06	-9.54	37.28	53.98	-16.69
*	20960.00	Peak	H	-	-	-67.04	18.06	-9.54	48.47	73.98	-25.50
	26200.00	Peak	H	-	-	-66.05	20.23	-9.54	51.64	68.20	-16.56

Table 7-30. Radiated Measurements SISO ANT1

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Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	286	41	-65.76	11.86	0.00	53.10	68.20	-15.10
*	15780.00	Average	H	115	270	-78.82	13.75	0.00	41.93	53.98	-12.05
*	15780.00	Peak	H	115	270	-66.46	13.75	0.00	54.29	73.98	-19.69
*	21040.00	Average	H	-	-	-77.85	18.36	-9.54	37.96	53.98	-16.02
*	21040.00	Peak	H	-	-	-66.86	18.36	-9.54	48.95	73.98	-25.03
	26300.00	Peak	H	-	-	-63.45	20.96	-9.54	54.96	68.20	-13.24

Table 7-31. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	282	51	-66.30	12.47	0.00	53.17	68.20	-15.03
*	15840.00	Average	H	117	285	-78.31	15.16	0.00	43.85	53.98	-10.13
*	15840.00	Peak	H	117	285	-65.95	15.16	0.00	56.21	73.98	-17.77
*	21120.00	Average	H	-	-	-77.70	18.17	-9.54	37.92	53.98	-16.05
*	21120.00	Peak	H	-	-	-66.07	18.17	-9.54	49.55	73.98	-24.42
	26400.00	Peak	H	-	-	-62.43	20.65	-9.54	55.68	68.20	-12.52

Table 7-32. Radiated Measurements SISO ANT1

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Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
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	271	31	-77.70	13.08	0.00	42.38	53.98	-11.60
*	10640.00	Peak	H	271	31	-66.23	13.08	0.00	53.85	73.98	-20.13
*	15960.00	Average	H	145	77	-79.22	13.43	0.00	41.21	53.98	-12.77
*	15960.00	Peak	H	145	77	-68.41	13.43	0.00	52.02	73.98	-21.96
*	21280.00	Average	H	-	-	-77.67	18.57	-9.54	38.36	53.98	-15.62
*	21280.00	Peak	H	-	-	-67.16	18.57	-9.54	48.87	73.98	-25.11
	26600.00	Peak	H	-	-	-47.30	5.16	-9.54	55.32	68.20	-12.88

Table 7-33. Radiated Measurements SISO ANT1

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Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	-	-79.25	12.53	0.00	40.28	53.98	-13.70
*	11000.00	Peak	H	-79	-	-67.77	12.53	0.00	51.76	73.98	-22.22
	16500.00	Peak	H	261	67	-66.93	15.04	0.00	55.11	68.20	-13.09
	22000.00	Peak	H	-	-	-64.78	19.12	-9.54	51.79	68.20	-16.41
	27500.00	Peak	H	-	-	-44.91	3.98	-9.54	56.53	68.20	-11.67

Table 7-34. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5580MHz
Channel: 116

	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]
*	11160.00	Average	H	280	45	-78.66	12.71	0.00	41.05	53.98	-12.93
*	11160.00	Peak	H	280	45	-67.58	12.71	0.00	52.13	73.98	-21.85
	16740.00	Peak	H	223	40	-65.65	15.84	0.00	57.19	68.20	-11.01
*	22320.00	Average	H	-	-	-77.41	20.03	-9.54	40.08	53.98	-13.90
*	22320.00	Peak	H	-	-	-66.74	20.03	-9.54	50.75	73.98	-23.23
	27900.00	Peak	H	-	-	-44.52	4.70	-9.54	57.64	68.20	-10.56

Table 7-35. Radiated Measurements SISO ANT1

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Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	301	53	-78.48	12.70	0.00	41.22	53.98	-12.76
*	11440.00	Peak	H	301	53	-67.63	12.70	0.00	52.07	73.98	-21.91
	17160.00	Peak	H	234	37	-67.24	17.71	0.00	57.47	68.20	-10.73
*	22880.00	Average	H	-	-	-78.00	19.50	-9.54	38.96	53.98	-15.02
*	22880.00	Peak	H	-	-	-66.87	19.50	-9.54	50.09	73.98	-23.89
	28600.00	Peak	H	100	59	-47.26	5.14	-9.54	55.34	68.20	-12.86

Table 7-36. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	305	55	-78.86	13.38	0.00	41.52	53.98	-12.46
*	11490.00	Peak	H	305	55	-67.08	13.38	0.00	53.30	73.98	-20.68
	17235.00	Peak	H	242	23	-67.37	17.44	0.00	57.07	68.20	-11.13
*	22980.00	Average	H	-	-	-77.87	19.89	-9.54	39.47	53.98	-14.51
*	22980.00	Peak	H	-	-	-67.39	19.89	-9.54	49.95	73.98	-24.03
	28725.00	Peak	H	100	67	-48.07	4.66	-9.54	54.05	68.20	-14.15

Table 7-37. Radiated Measurements SISO ANT1

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Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	-	-	-79.21	12.70	0.00	40.49	53.98	-13.49
*	11570.00	Peak	H	-	-	-68.13	12.70	0.00	51.57	73.98	-22.41
	17355.00	Peak	H	-	-	-68.71	19.46	0.00	57.75	68.20	-10.45
	23140.00	Peak	H	-	-	-67.55	19.59	-9.54	49.50	68.20	-18.70
	28925.00	Peak	H	100	52	-47.66	4.43	-9.54	54.23	68.20	-13.97

Table 7-38. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	-	-	-79.45	13.24	0.00	40.79	53.98	-13.19
*	11650.00	Peak	H	-	-	-68.82	13.24	0.00	51.42	73.98	-22.56
	17475.00	Peak	H	-	-	-67.62	20.06	0.00	59.44	68.20	-8.76
	23300.00	Peak	H	-	-	-67.52	18.93	-9.54	48.87	68.20	-19.33
	29125.00	Peak	H	100	56	-47.25	3.48	-9.54	53.69	68.20	-14.51

Table 7-39. Radiated Measurements SISO ANT1

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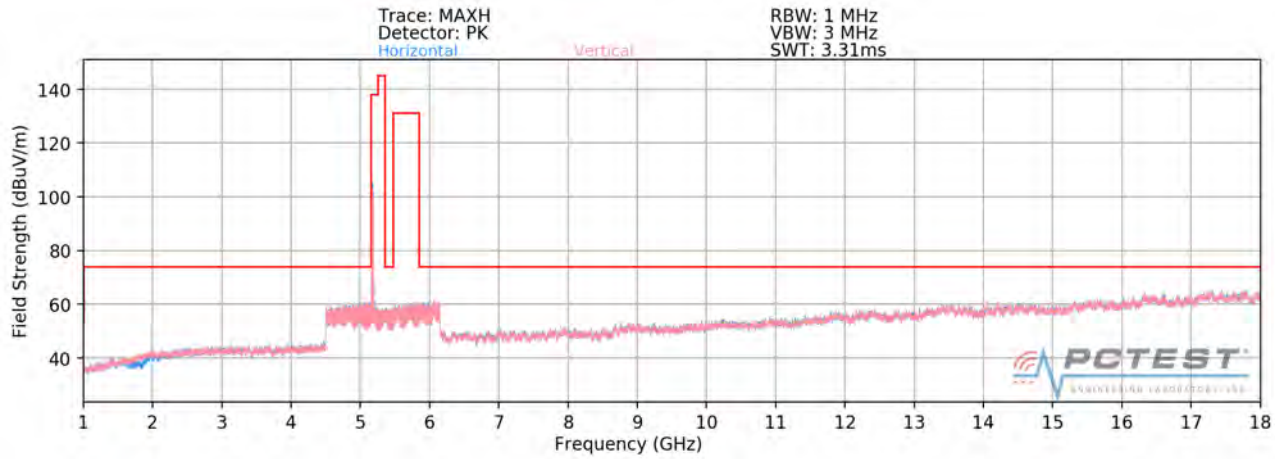
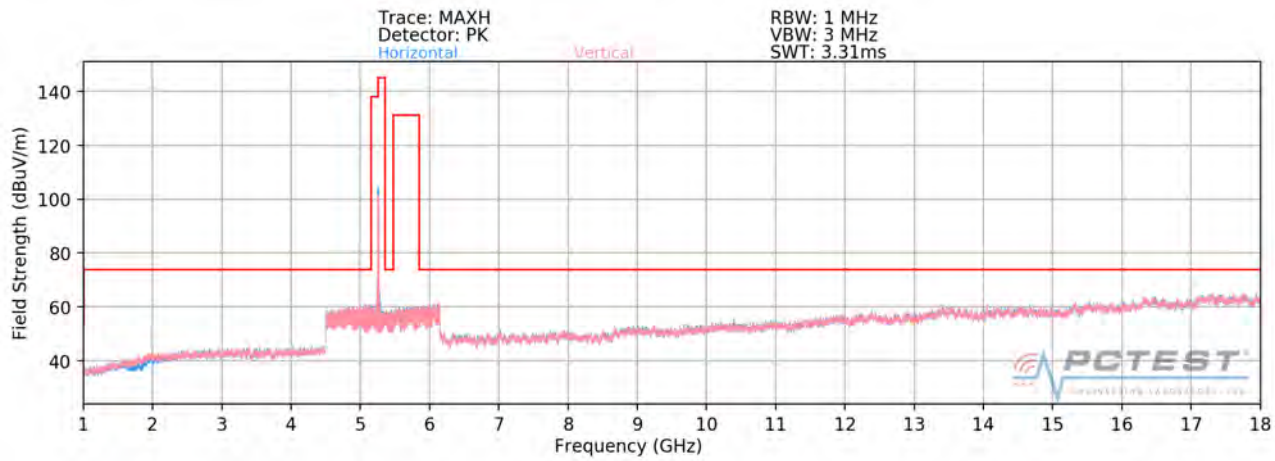
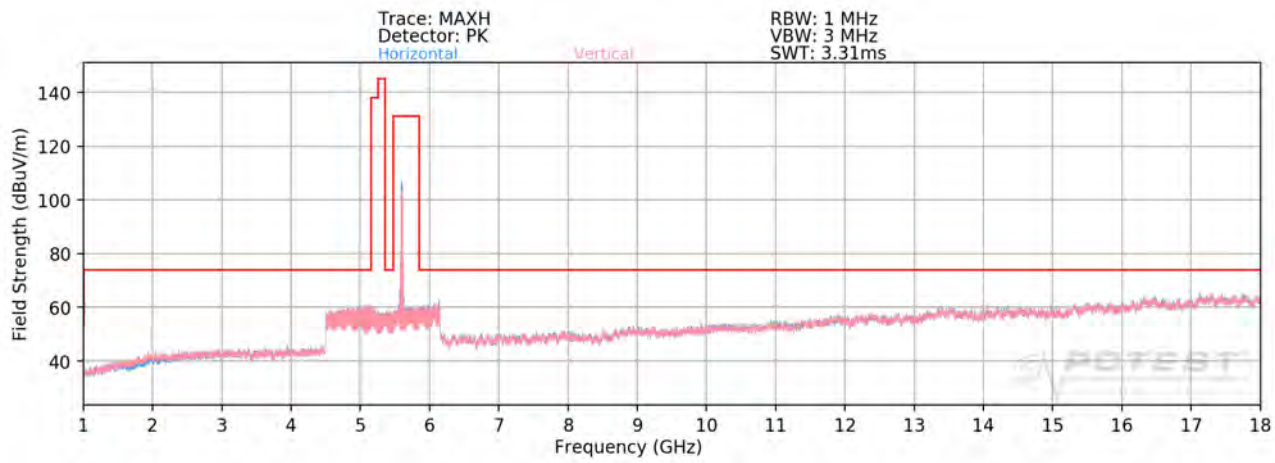
7.5.2 SISO Antenna-2 Radiated Spurious Emission Measurements



Plot 7-271. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a – U1 Ch. 40)



Plot 7-272. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a – U2A Ch. 56)



Plot 7-273. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a – U2C Ch. 120)

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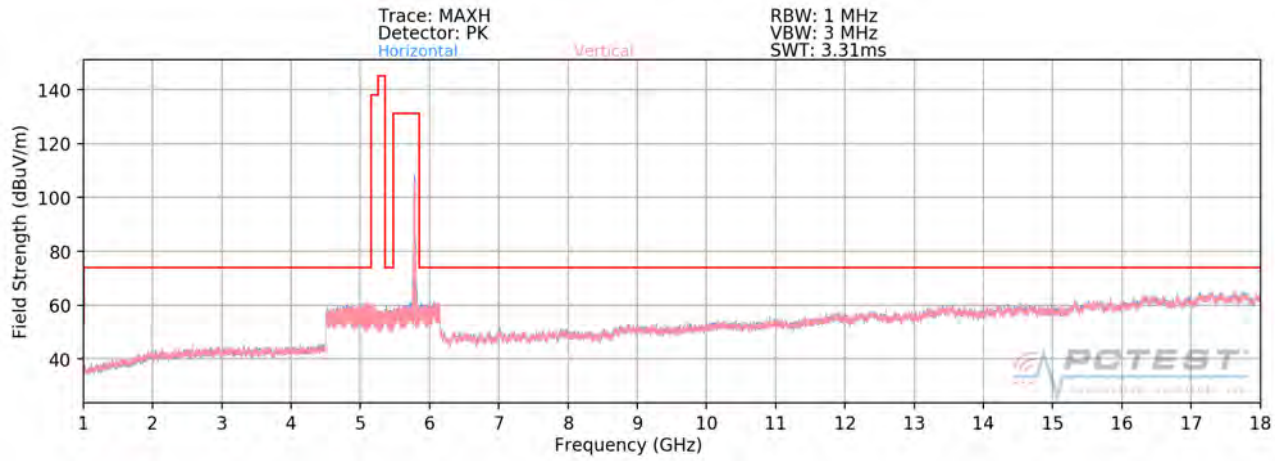

Plot 7-274. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a – U3 Ch. 157)

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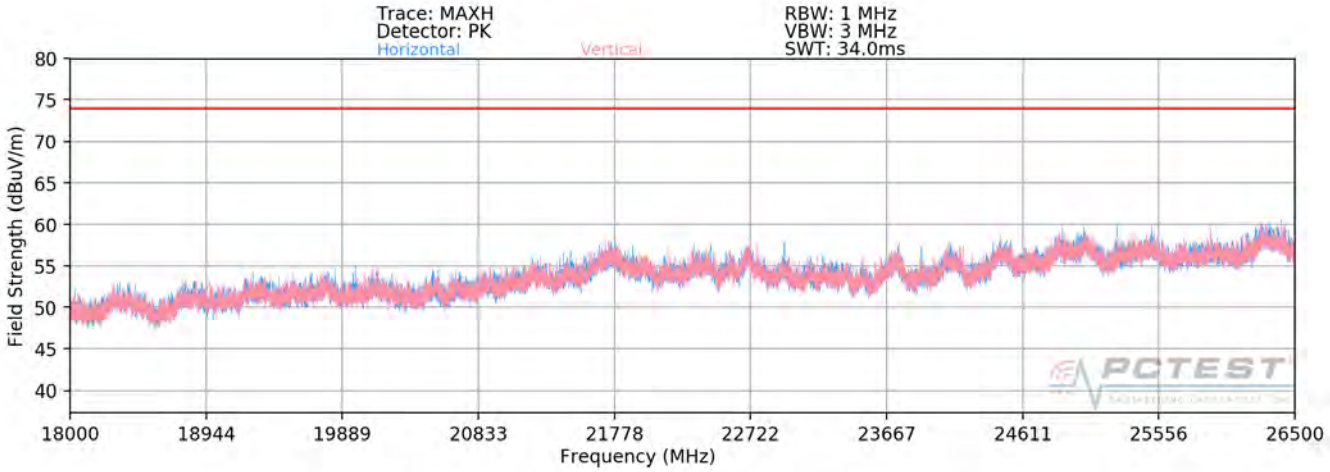
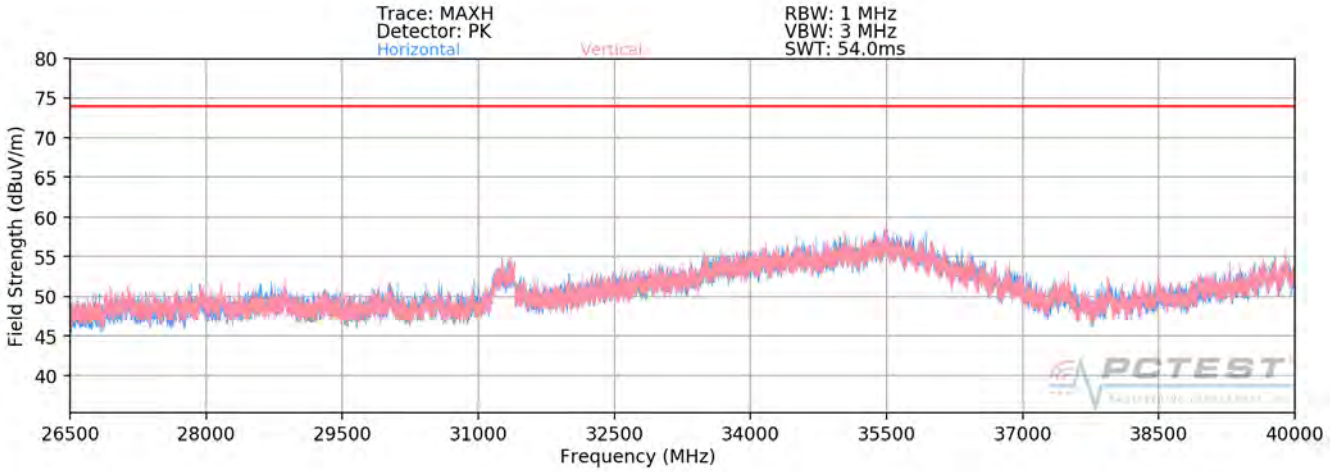
SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-275. Radiated Spurious Plot above 18GHz - 26.5GHz SISO ANT2 (802.11a)



Plot 7-276. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11a)

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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: 802.11a
Worst Case Transfer Rate: 6Mbps
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	354	352	-70.25	11.41	0.00	48.16	68.20	-20.04
*	15540.00	Average	H	-	-	-84.04	13.23	0.00	36.19	53.98	-17.79
*	15540.00	Peak	H	-	-	-71.41	13.23	0.00	48.82	73.98	-25.16
*	20720.00	Average	H	-	-	-69.46	17.51	-9.54	45.51	53.98	-8.47
*	20720.00	Peak	H	-	-	-61.00	17.51	-9.54	53.97	73.98	-20.01
	25900.00	Peak	H	-	-	-59.08	19.88	-9.54	58.26	68.20	-9.94

Table 7-40. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	371	53	-70.03	11.17	0.00	48.14	68.20	-20.06
*	15600.00	Average	H	-	-	-83.63	12.81	0.00	36.18	53.98	-17.80
*	15600.00	Peak	H	-	-	-70.36	12.81	0.00	49.45	73.98	-24.53
*	20800.00	Average	H	-	-	-68.24	17.87	-9.54	47.08	53.98	-6.90
*	20800.00	Peak	H	-	-	-61.46	17.87	-9.54	53.86	73.98	-20.12
	26000.00	Peak	H	-	-	-59.33	20.15	-9.54	58.27	68.20	-9.93

Table 7-41. Radiated Measurements SISO ANT2

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Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	257	341	-69.73	11.37	0.00	48.64	68.20	-19.56
*	15720.00	Average	H	-	-	-83.52	15.18	0.00	38.66	53.98	-15.32
*	15720.00	Peak	H	-	-	-71.02	15.18	0.00	51.16	73.98	-22.82
*	20960.00	Average	H	-	-	-68.59	18.06	-9.54	46.92	53.98	-7.05
*	20960.00	Peak	H	-	-	-60.86	18.06	-9.54	54.65	73.98	-19.32
	26200.00	Peak	H	-	-	-58.93	20.23	-9.54	58.76	68.20	-9.44

Table 7-42. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	100	348	-69.30	11.86	0.00	49.56	68.20	-18.64
*	15780.00	Average	H	-	-	-83.97	13.75	0.00	36.78	53.98	-17.20
*	15780.00	Peak	H	-	-	-70.57	13.75	0.00	50.18	73.98	-23.80
*	21040.00	Average	H	-	-	-68.82	18.36	-9.54	46.99	53.98	-6.99
*	21040.00	Peak	H	-	-	-60.94	18.36	-9.54	54.87	73.98	-19.11
	26300.00	Peak	H	-	-	-57.82	20.96	-9.54	60.59	68.20	-7.61

Table 7-43. Radiated Measurements SISO ANT2

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Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	308	47	-69.38	12.47	0.00	50.09	68.20	-18.11
*	15840.00	Average	H	-	-	-83.81	15.16	0.00	38.35	53.98	-15.63
*	15840.00	Peak	H	-	-	-71.52	15.16	0.00	50.64	73.98	-23.34
*	21120.00	Average	H	-	-	-67.96	18.17	-9.54	47.66	53.98	-6.31
*	21120.00	Peak	H	-	-	-60.66	18.17	-9.54	54.96	73.98	-19.01
	26400.00	Peak	H	-	-	-57.97	20.65	-9.54	60.14	68.20	-8.06

Table 7-44. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	102	364	-82.11	13.08	0.00	37.97	53.98	-16.01
*	10640.00	Peak	H	102	364	-69.03	13.08	0.00	51.05	73.98	-22.93
*	15960.00	Average	H	-	-	-84.21	13.43	0.00	36.22	53.98	-17.76
*	15960.00	Peak	H	-	-	-70.79	13.43	0.00	49.64	73.98	-24.34
*	21280.00	Average	H	-	-	-67.37	9.03	-9.54	39.12	53.98	-14.86
*	21280.00	Peak	H	-	-	-60.05	9.03	-9.54	46.44	73.98	-27.54
	26600.00	Peak	H	-	-	-52.40	-4.38	-9.54	40.68	68.20	-27.52

Table 7-45. Radiated Measurements SISO ANT2

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Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	341	317	-81.84	12.53	0.00	37.69	53.98	-16.29
*	11000.00	Peak	H	341	317	-68.72	12.53	0.00	50.81	73.98	-23.17
	16500.00	Peak	H	-	-	-70.25	15.04	0.00	51.79	68.20	-16.41
	22000.00	Peak	H	-	-	-60.17	19.12	-9.54	56.40	68.20	-11.80
	27500.00	Peak	H	-	-	-50.98	3.98	-9.54	50.46	68.20	-17.74

Table 7-46. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5580MHz
Channel: 116

	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]
*	11160.00	Average	H	349	186	-82.49	12.71	0.00	37.22	53.98	-16.76
*	11160.00	Peak	H	349	186	-70.17	12.71	0.00	49.54	73.98	-24.44
	16740.00	Peak	H	-	-	-70.27	15.84	0.00	52.57	68.20	-15.63
*	22320.00	Average	H	-	-	-67.66	20.03	-9.54	49.83	53.98	-4.15
*	22320.00	Peak	H	-	-	-59.47	20.03	-9.54	58.02	73.98	-15.96
	27900.00	Peak	H	-	-	-50.36	4.70	-9.54	51.80	68.20	-16.40

Table 7-47. Radiated Measurements SISO ANT2

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Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	306	369	-83.31	12.70	0.00	36.39	53.98	-17.59
*	11440.00	Peak	H	306	369	-70.11	12.70	0.00	49.59	73.98	-24.39
	17160.00	Peak	H	-	-	-70.79	17.71	0.00	53.92	68.20	-14.28
*	22880.00	Average	H	-	-	-68.61	19.50	-9.54	48.35	53.98	-5.63
*	22880.00	Peak	H	-	-	-60.94	19.50	-9.54	56.02	73.98	-17.96
	28600.00	Peak	H	-	-	-50.91	5.14	-9.54	51.69	68.20	-16.51

Table 7-48. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	315	78	-84.03	13.38	0.00	36.35	53.98	-17.63
*	11490.00	Peak	H	315	78	-71.47	13.38	0.00	48.91	73.98	-25.07
	17235.00	Peak	H	-	-	-71.90	17.44	0.00	52.54	68.20	-15.66
*	22980.00	Average	H	-	-	-68.51	19.89	-9.54	48.83	53.98	-5.15
*	22980.00	Peak	H	-	-	-60.35	19.89	-9.54	56.99	73.98	-16.99
	28725.00	Peak	H	-	-	-51.02	4.66	-9.54	51.10	68.20	-17.10

Table 7-49. Radiated Measurements SISO ANT2

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Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	368	119	-83.19	12.70	0.00	36.51	53.98	-17.47
*	11570.00	Peak	H	368	119	-70.88	12.70	0.00	48.82	73.98	-25.16
	17355.00	Peak	H	-	-	-71.65	19.46	0.00	54.81	68.20	-13.39
	23140.00	Peak	H	-	-	-61.46	19.59	-9.54	55.59	68.20	-12.61
	28925.00	Peak	H	-	-	-51.04	4.43	-9.54	50.85	68.20	-17.35

Table 7-50. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	114	218	-83.43	13.24	0.00	36.81	53.98	-17.17
*	11650.00	Peak	H	114	218	-70.43	13.24	0.00	49.81	73.98	-24.17
	17475.00	Peak	H	-	-	-71.51	20.06	0.00	55.55	68.20	-12.65
	23300.00	Peak	H	-	-	-60.51	18.93	-9.54	55.88	68.20	-12.32
	29125.00	Peak	H	-	-	-50.75	3.48	-9.54	50.19	68.20	-18.01

Table 7-51. Radiated Measurements SISO ANT2

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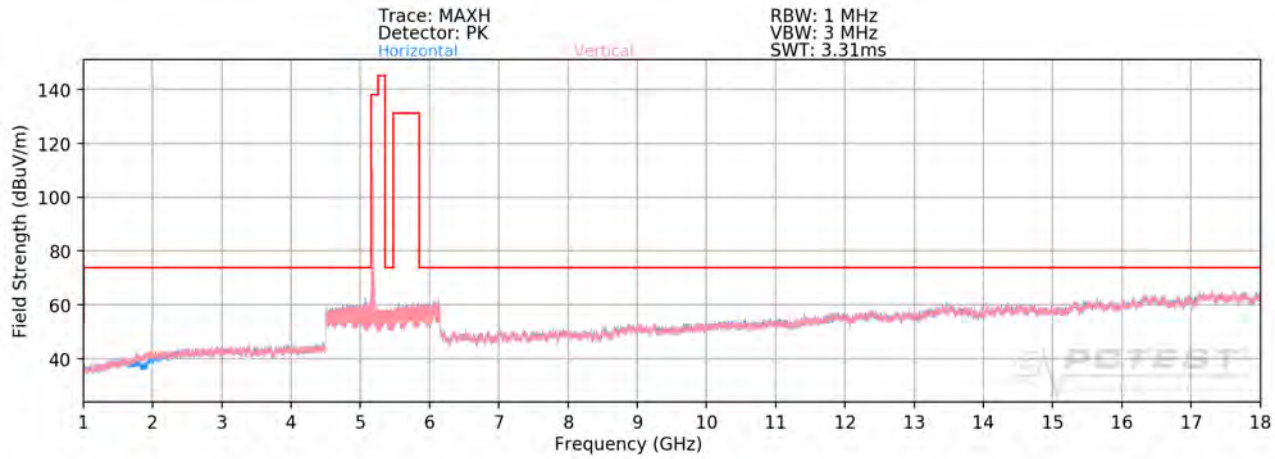
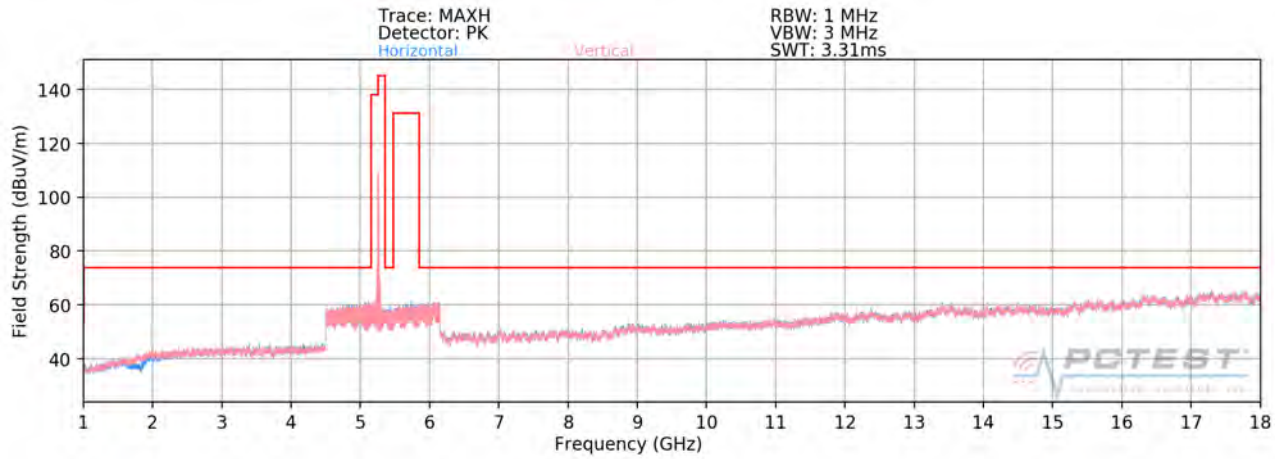
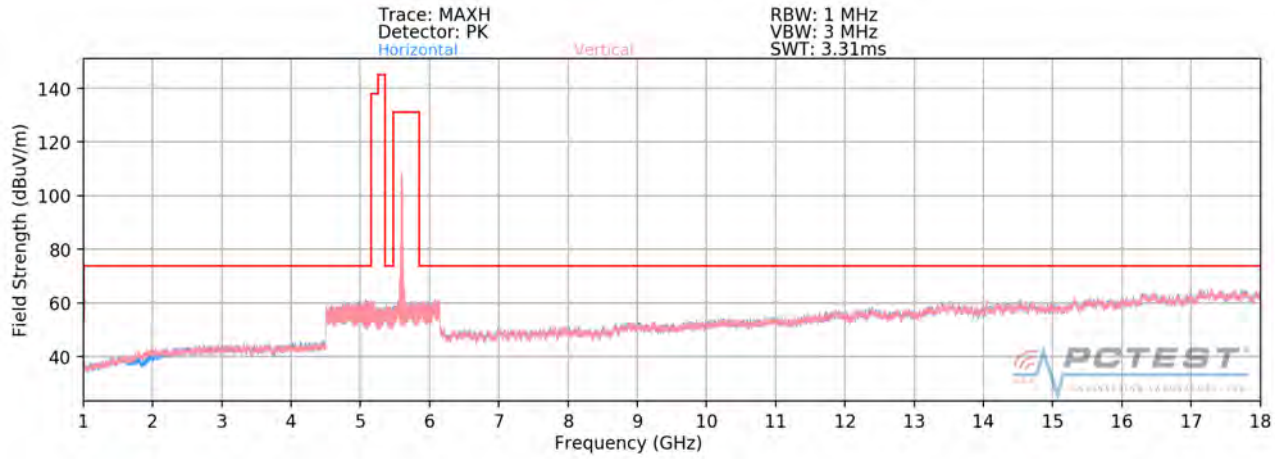
7.5.3 MIMO/CDD Radiated Spurious Emission Measurements



Plot 7-277. Radiated Spurious Plot above 1GHz MIMO/CDD (802.11a – U1 Ch. 40)



Plot 7-278. Radiated Spurious Plot above 1GHz MIMO/CDD (802.11a – U2A Ch. 56)



Plot 7-279. Radiated Spurious Plot above 1GHz MIMO/CDD (802.11a – U2C Ch. 120)

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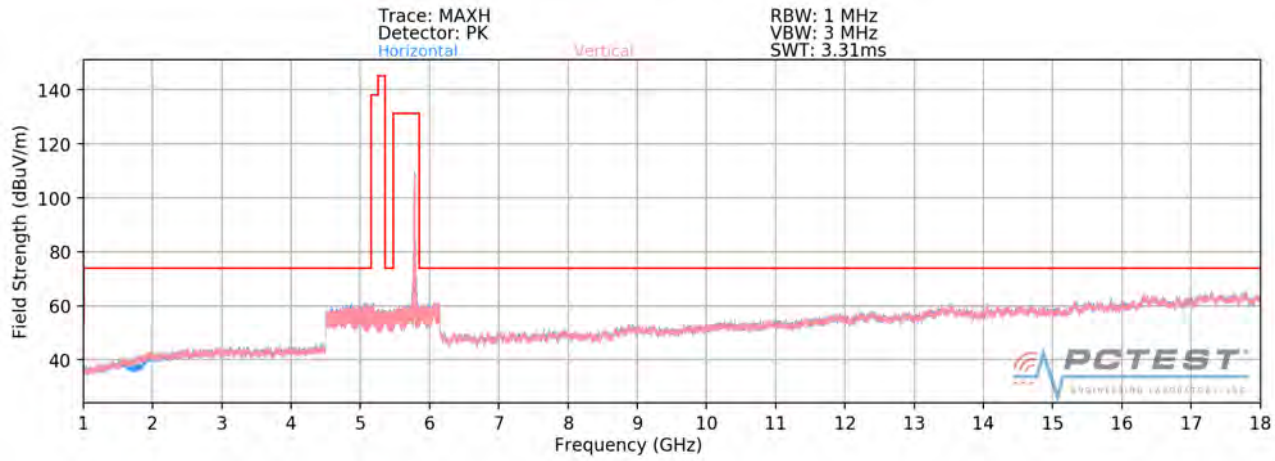

Plot 7-280. Radiated Spurious Plot above 1GHz MIMO/CDD (802.11a – U3 Ch. 157)

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MIMO/CDD Radiated Spurious Emission Measurements

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

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	116	61	-68.40	11.41	0.00	50.01	68.20	-18.19
*	15540.00	Average	V	102	267	-83.07	13.23	0.00	37.16	53.98	-16.82
*	15540.00	Peak	V	102	267	-71.42	13.23	0.00	48.81	73.98	-25.17
*	20720.00	Average	V	-	-	-68.25	7.97	-9.54	37.18	53.98	-16.80
*	20720.00	Peak	V	-	-	-59.58	7.97	-9.54	45.85	73.98	-28.13
	25900.00	Peak	V	-	-	-58.74	10.34	-9.54	49.06	68.20	-19.14

Table 7-52. Radiated Measurements MIMO/CDD

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	100	172	-68.92	11.17	0.00	49.25	68.20	-18.95
*	15600.00	Average	V	-	-	-83.46	12.81	0.00	36.35	53.98	-17.63
*	15600.00	Peak	V	-	-	-71.18	12.81	0.00	48.63	73.98	-25.35
*	20800.00	Average	V	-	-	-68.49	8.33	-9.54	37.29	53.98	-16.69
*	20800.00	Peak	V	-	-	-61.17	8.33	-9.54	44.61	73.98	-29.37
	26000.00	Peak	V	-	-	-59.15	10.61	-9.54	48.91	68.20	-19.29

Table 7-53. Radiated Measurements MIMO/CDD

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Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	115	172	-69.08	11.37	0.00	49.29	68.20	-18.91
*	15720.00	Average	V	100	360	-82.44	15.18	0.00	39.74	53.98	-14.24
*	15720.00	Peak	V	100	360	-68.20	15.18	0.00	53.98	73.98	-20.00
*	20960.00	Average	V	-	-	-68.63	8.52	-9.54	37.34	53.98	-16.63
*	20960.00	Peak	V	-	-	-61.06	8.52	-9.54	44.91	73.98	-29.06
	26200.00	Peak	V	-	-	-59.35	10.69	-9.54	48.80	68.20	-19.40

Table 7-54. Radiated Measurements MIMO/CDD

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	121	169	-70.13	11.37	0.00	48.24	68.20	-19.96
*	15720.00	Average	V	123	349	-81.36	15.18	0.00	40.82	53.98	-13.16
*	15720.00	Peak	V	123	349	-69.33	15.18	0.00	52.85	73.98	-21.13
*	20960.00	Average	V	-	-	-68.79	8.52	-9.54	37.18	53.98	-16.79
*	20960.00	Peak	V	-	-	-62.36	8.52	-9.54	43.61	73.98	-30.36
	26200.00	Peak	V	-	-	-60.49	10.69	-9.54	47.66	68.20	-20.54

Table 7-55. Radiated Measurements MIMO/CDD with WCP

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Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	100	167	-67.75	11.86	0.00	51.11	68.20	-17.09
*	15780.00	Average	V	100	166	-82.72	13.75	0.00	38.03	53.98	-15.95
*	15780.00	Peak	V	100	166	-70.17	13.75	0.00	50.58	73.98	-23.40
*	21040.00	Average	V	-	-	-67.92	8.82	-9.54	38.35	53.98	-15.63
*	21040.00	Peak	V	-	-	-61.11	8.82	-9.54	45.16	73.98	-28.82
	26300.00	Peak	V	-	-	-58.09	11.42	-9.54	50.78	68.20	-17.42

Table 7-56. Radiated Measurements MIMO/CDD

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	112	187	-68.45	12.47	0.00	51.02	68.20	-17.18
*	15840.00	Average	V	295	149	-83.49	15.16	0.00	38.67	53.98	-15.31
*	15840.00	Peak	V	295	149	-70.87	15.16	0.00	51.29	73.98	-22.69
*	21120.00	Average	V	-	-	-67.84	8.63	-9.54	38.24	53.98	-15.73
*	21120.00	Peak	V	-	-	-60.12	8.63	-9.54	45.96	73.98	-28.01
	26400.00	Peak	V	-	-	-58.03	11.11	-9.54	50.54	68.20	-17.66

Table 7-57. Radiated Measurements MIMO/CDD

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Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
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	100	169	-80.93	13.08	0.00	39.15	53.98	-14.83
*	10640.00	Peak	V	100	169	-68.46	13.08	0.00	51.62	73.98	-22.36
*	15960.00	Average	V	100	164	-82.44	13.43	0.00	37.99	53.98	-15.99
*	15960.00	Peak	V	100	164	-69.88	13.43	0.00	50.55	73.98	-23.43
*	21280.00	Average	V	-	-	-67.36	9.03	-9.54	39.13	53.98	-14.85
*	21280.00	Peak	V	-	-	-59.90	9.03	-9.54	46.59	73.98	-27.39
	26600.00	Peak	V	-	-	-51.47	-4.38	-9.54	41.61	68.20	-26.59

Table 7-58. Radiated Measurements MIMO/CDD

Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
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	114	201	-81.01	13.08	0.00	39.07	53.98	-14.91
*	10640.00	Peak	V	114	201	-69.51	13.08	0.00	50.57	73.98	-23.41
*	15960.00	Average	V	105	178	-83.06	13.43	0.00	37.37	53.98	-16.61
*	15960.00	Peak	V	105	178	-70.08	13.43	0.00	50.35	73.98	-23.63
*	21280.00	Average	V	-	-	-68.24	9.03	-9.54	38.25	53.98	-15.73
	21280.00	Peak	V	-	-	-60.19	9.03	-9.54	46.30	73.98	-27.68
	26600.00	Peak	V	-	-	-52.10	-4.38	-9.54	40.98	68.20	-27.22

Table 7-59. Radiated Measurements MIMO/CDD with WCP

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Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	250	28	-81.99	12.53	0.00	37.54	53.98	-16.44
*	11000.00	Peak	V	250	28	-69.65	12.53	0.00	49.88	73.98	-24.10
	16500.00	Peak	V	101	160	-66.22	15.04	0.00	55.82	68.20	-12.38
	22000.00	Peak	V	-	-	-59.86	9.58	-9.54	47.17	68.20	-21.03
	27500.00	Peak	V	-	-	-51.36	-5.56	-9.54	40.54	68.20	-27.66

Table 7-60. Radiated Measurements MIMO/CDD

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5580MHz
Channel: 116

	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]
*	11160.00	Average	V	102	141	-81.67	12.71	0.00	38.04	53.98	-15.94
*	11160.00	Peak	V	102	141	-68.23	12.71	0.00	51.48	73.98	-22.50
	16740.00	Peak	V	101	160	-67.74	15.84	0.00	55.10	68.20	-13.10
*	22320.00	Average	V	-	-	-67.62	10.36	-9.54	40.20	53.98	-13.78
*	22320.00	Peak	V	-	-	-60.39	10.36	-9.54	47.43	73.98	-26.55
	27900.00	Peak	V	-	-	-50.34	-5.17	-9.54	41.94	68.20	-26.26

Table 7-61. Radiated Measurements MIMO/CDD

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Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5700MHz
Channel: 140

	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	115	99	-83.00	12.70	0.00	36.70	53.98	-17.28
*	11440.00	Peak	V	115	99	-71.09	12.70	0.00	48.61	73.98	-25.37
	17160.00	Peak	V	101	66	-70.64	17.71	0.00	54.07	68.20	-14.13
*	22880.00	Average	V	-	-	-68.59	9.96	-9.54	38.83	53.98	-15.15
*	22880.00	Peak	V	-	-	-60.71	9.96	-9.54	46.71	73.98	-27.27
	28600.00	Peak	V	-	-	-50.68	-4.40	-9.54	42.38	68.20	-25.82

Table 7-62. Radiated Measurements MIMO/CDD

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5580MHz
Channel: 116

	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]
*	11160.00	Average	V	141	167	-81.74	12.71	0.00	37.97	53.98	-16.01
*	11160.00	Peak	V	141	167	-69.04	12.71	0.00	50.67	73.98	-23.31
	16740.00	Peak	V	116	159	-68.49	15.84	0.00	54.35	68.20	-13.85
*	22320.00	Average	V	-	-	-66.34	10.36	-9.54	41.48	53.98	-12.50
*	22320.00	Peak	V	-	-	-61.04	10.36	-9.54	46.78	73.98	-27.20
	27900.00	Peak	V	-	-	-50.46	-5.17	-9.54	41.82	68.20	-26.38

Table 7-63. Radiated Measurements MIMO/CDD with WCP

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Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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]
*	11490.00	Average	V	102	156	-83.27	13.38	0.00	37.11	53.98	-16.87
*	11490.00	Peak	V	102	156	-70.75	13.38	0.00	49.63	73.98	-24.35
	17235.00	Peak	V	101	161	-70.38	17.44	0.00	54.06	68.20	-14.14
*	22980.00	Average	V	-	-	-68.57	10.35	-9.54	39.23	53.98	-14.75
*	22980.00	Peak	V	-	-	-60.68	10.35	-9.54	47.12	73.98	-26.86
	28725.00	Peak	V	-	-	-49.62	-4.88	-9.54	42.96	69.20	-26.24

Table 7-64. Radiated Measurements MIMO/CDD

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	388	198	-83.11	12.70	0.00	36.59	53.98	-17.39
*	11570.00	Peak	V	388	198	-70.31	12.70	0.00	49.39	73.98	-24.59
	17355.00	Peak	V	101	32	-70.49	19.46	0.00	55.97	68.20	-12.23
	23140.00	Peak	V	-	-	-61.02	10.05	-9.54	46.49	68.20	-21.71
	28925.00	Peak	V	-	-	-51.28	-5.11	-9.54	41.07	68.20	-27.13

Table 7-65. Radiated Measurements MIMO/CDD

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Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
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	400	343	-83.25	13.24	0.00	36.99	53.98	-16.99
*	11650.00	Peak	V	400	343	-70.66	13.24	0.00	49.58	73.98	-24.40
	17475.00	Peak	V	102	22	-69.70	20.06	0.00	57.36	68.20	-10.84
	23300.00	Peak	V	-	-	-61.19	9.39	-9.54	45.66	68.20	-22.54
	29125.00	Peak	V	-	-	-49.73	-6.06	-9.54	41.67	68.20	-26.53

Table 7-66. Radiated Measurements MIMO/CDD

Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
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	347	216	-83.31	13.24	0.00	36.93	53.98	-17.05
*	11650.00	Peak	V	347	216	-71.24	13.24	0.00	49.00	73.98	-24.98
	17475.00	Peak	V	-	-	-70.04	20.06	0.00	57.02	68.20	-11.18
	23300.00	Peak	V	-	-	-62.04	9.39	-9.54	44.81	68.20	-23.39
	29125.00	Peak	V	-	-	-50.22	-6.06	-9.54	41.18	68.20	-27.02

Table 7-67. Radiated Measurements MIMO/CDD with WCP

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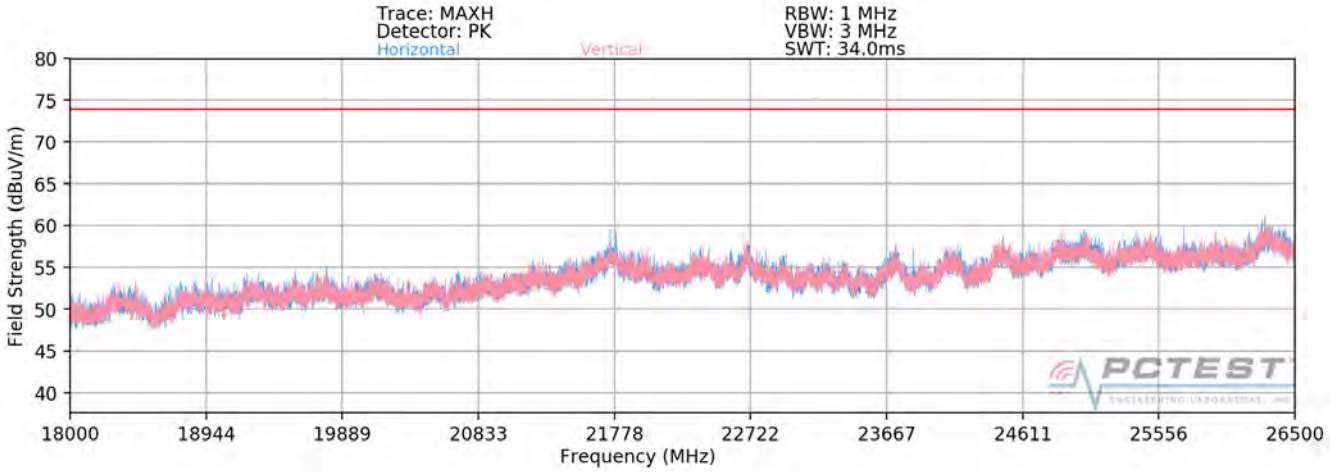
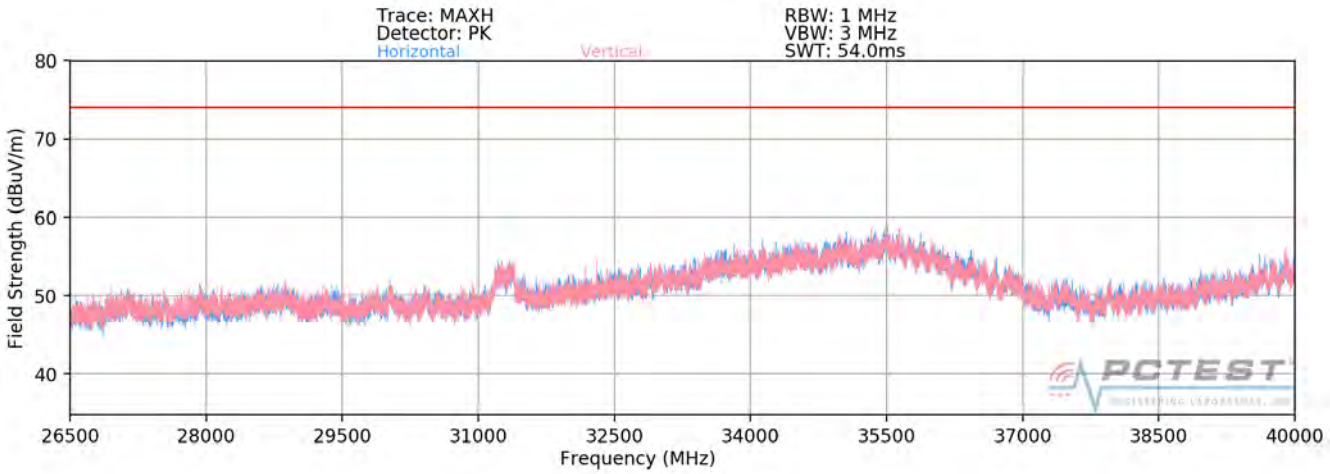
MIMO/CDD Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-281. Radiated Spurious Plot above 18GHz - 26.5GHz MIMO/CDD (802.11a)



Plot 7-282. Radiated Spurious Plot 26.5GHz - 40GHz MIMO/CDD (802.11a)

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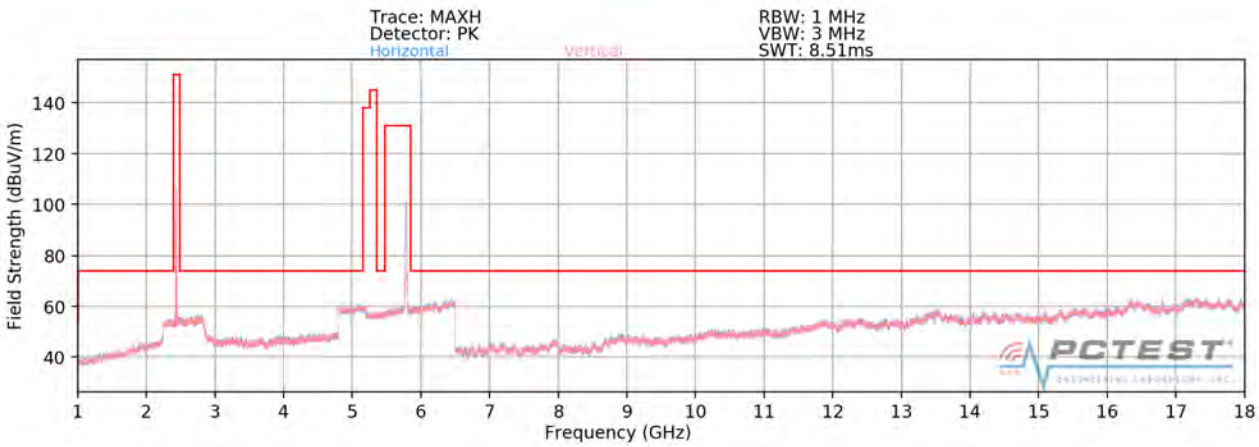
7.5.4 Simultaneous Tx Radiated Spurious Emissions Measurements

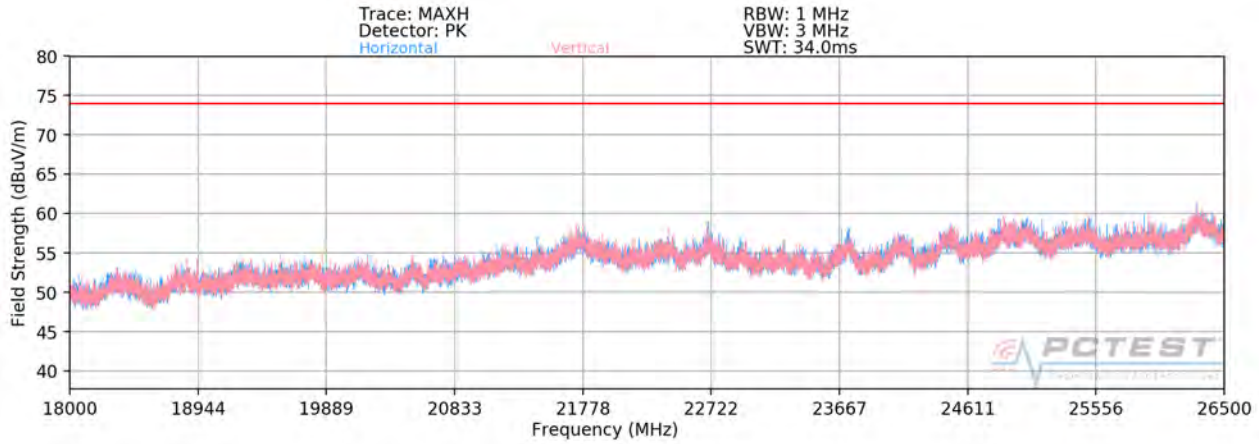
§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Description	2.4 GHz Emission	5 GHz Emission
Antenna	1	2
Channel	6	157
Operating Frequency (MHz)	2437	5785
Data Rate (Mbps)	1	MCS0
Mode	802.11b	802.11n

Table 7-68. Simultaneous Transmission Config-1



Plot 7-283. Radiated Spurious Plot above 1GHz (2.4GHz – 5GHz)



Plot 7-284. Radiated Spurious Plot 18GHz – 26.5GHz (2.4GHz – 5GHz)

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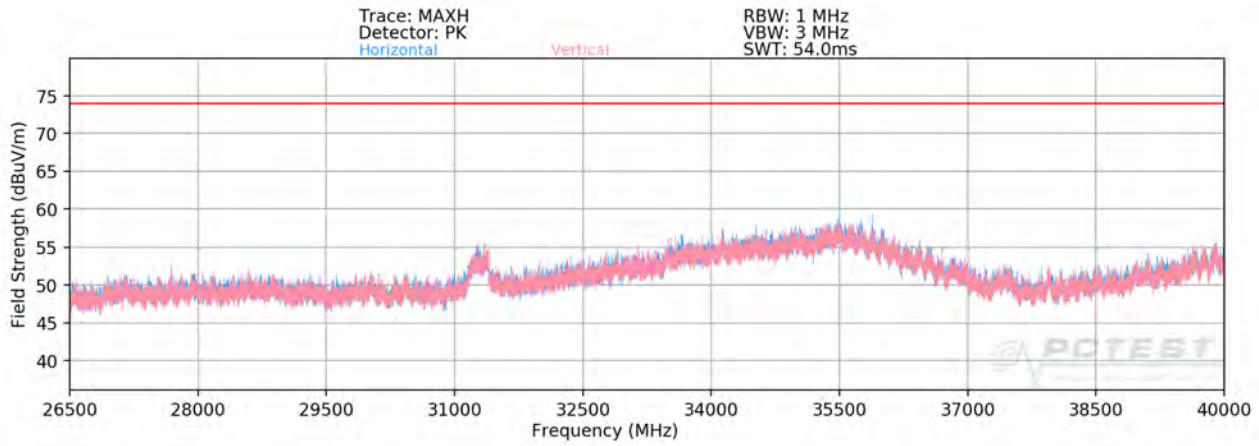

Plot 7-285. Radiated Spurious Plot above 26.5GHz (2.4GHz – 5GHz)

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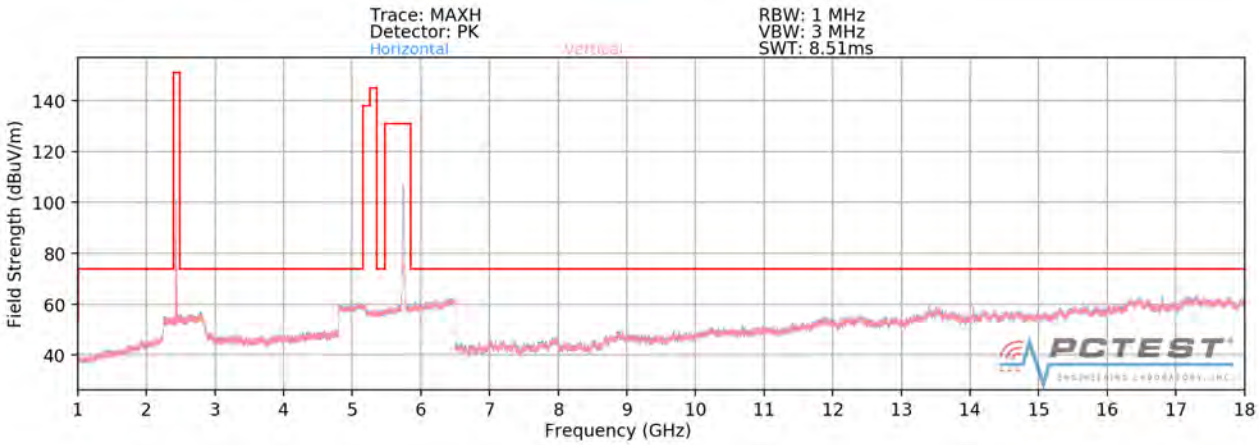
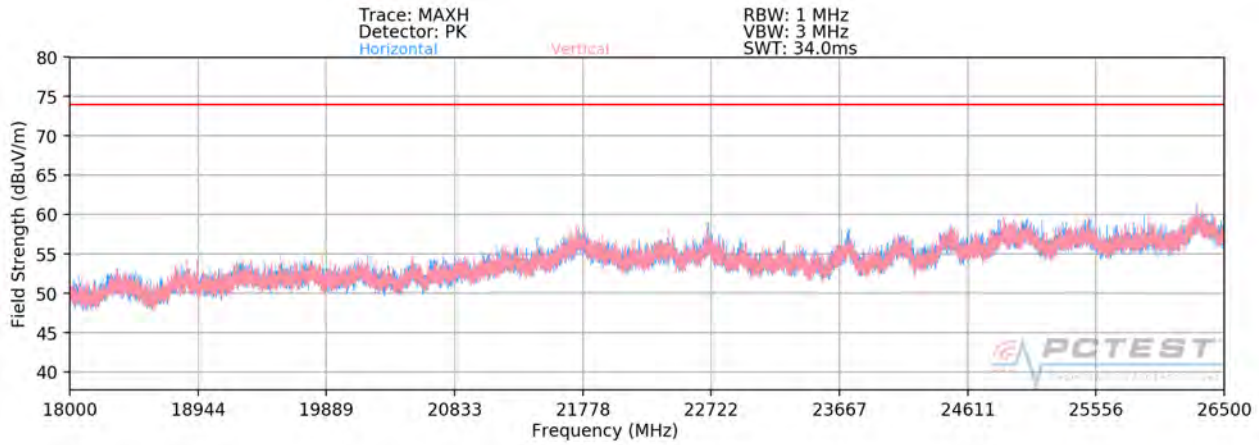
Description	2.4 GHz Emission	5 GHz Emission
Antenna	2	1
Channel	6	157
Operating Frequency (MHz)	2437	5785
Data Rate (Mbps)	1	MCS0
Mode	802.11b	802.11n

Table 7-69. Simultaneous Transmission Config-2



Plot 7-286. Radiated Spurious Plot above 1GHz (5GHz – 2.4 GHz)



Plot 7-287. Radiated Spurious Plot 18GHz – 26.5GHz (5GHz – 2.4 GHz)

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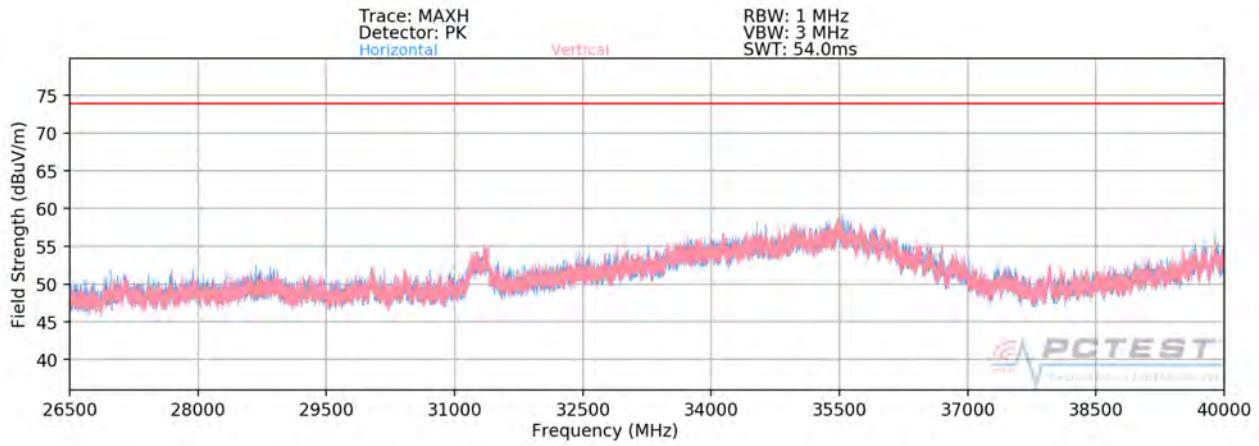

Plot 7-288. Radiated Spurious Plot above 26.5GHz (5GHz – 2.4 GHz)

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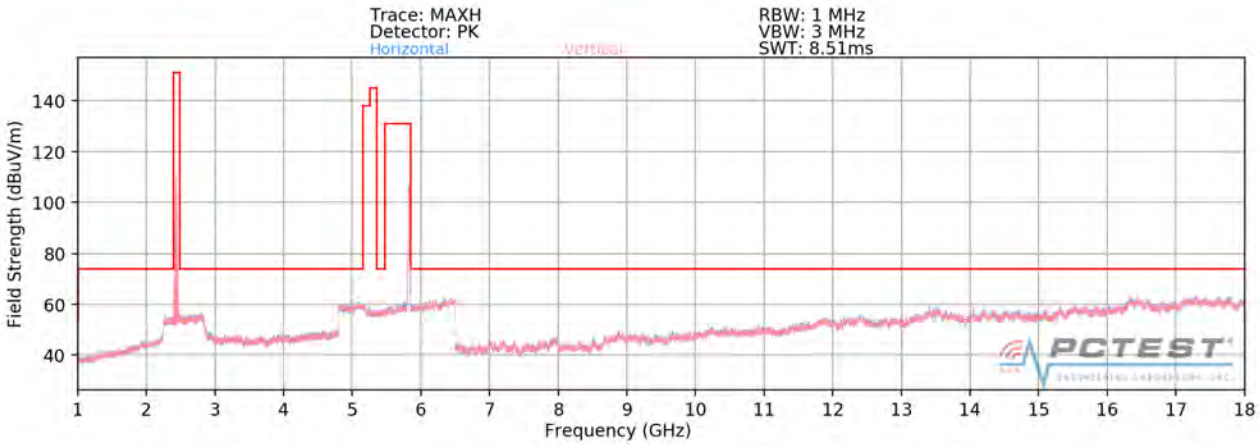
Description	2.4 GHz Emission	5 GHz Emission
Antenna	1, 2	1, 2
Channel	6	165
Operating Frequency (MHz)	2437	5825
Data Rate (Mbps)	MCS8	MCS8
Mode	802.11n	802.11n

Table 7-70. Dual Band Simultaneous Transmission



Plot 7-289. Radiated Spurious Plot above 1GHz (Dual Band Simult. Tx)

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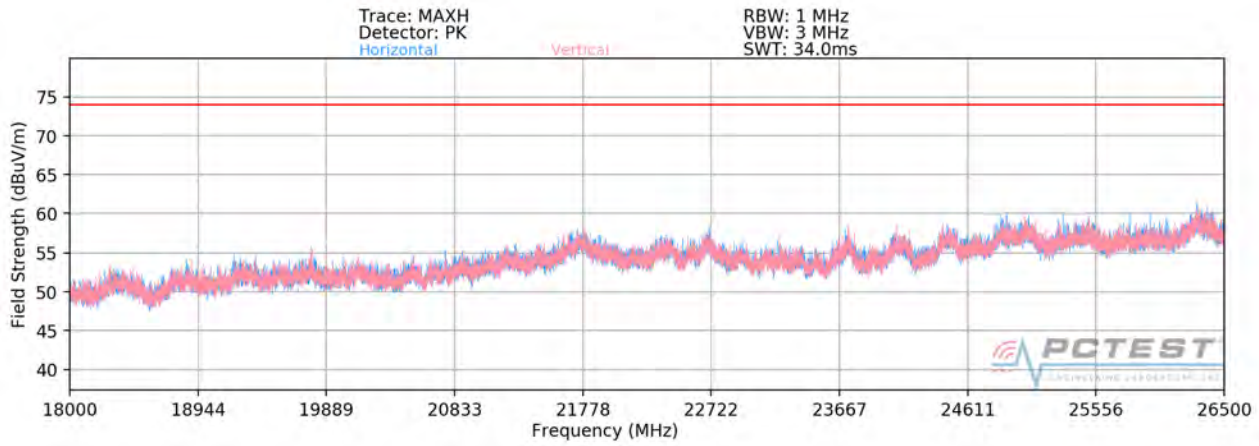
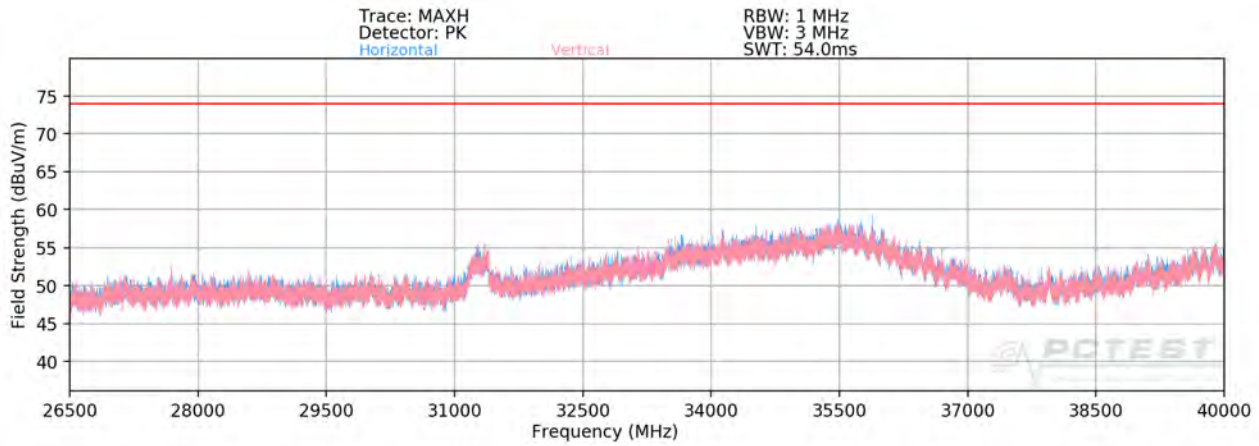


Plot 7-290. Radiated Spurious Plot 18GHz – 26.5GHz (Dual Band Simult. Tx)



Plot 7-291. Radiated Spurious Plot above 26.5GHz (Dual Band Simult. Tx)

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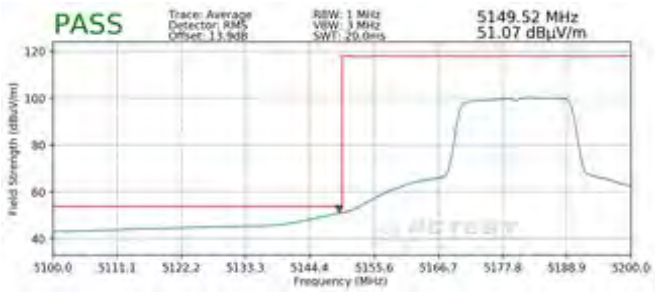
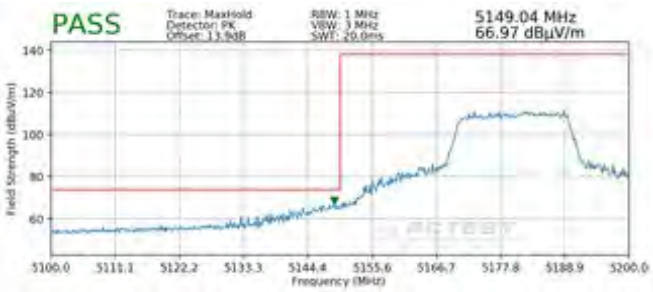
7.5.5 SISO Antenna-1 Radiated Band Edge Measurements (20MHz BW)

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

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

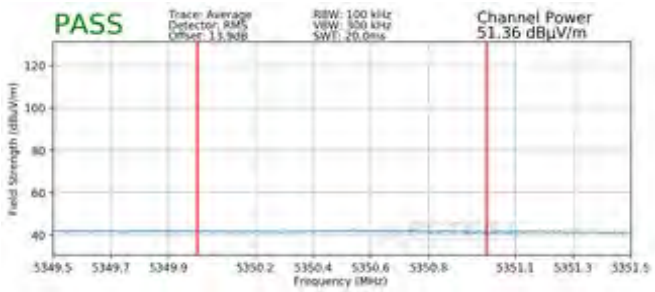


Plot 7-292. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)

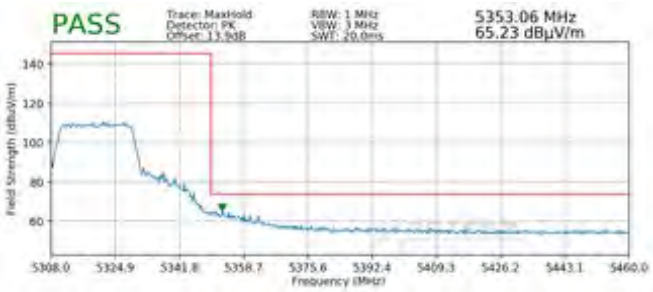


Plot 7-293. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

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



Plot 7-294. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)



Plot 7-295. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

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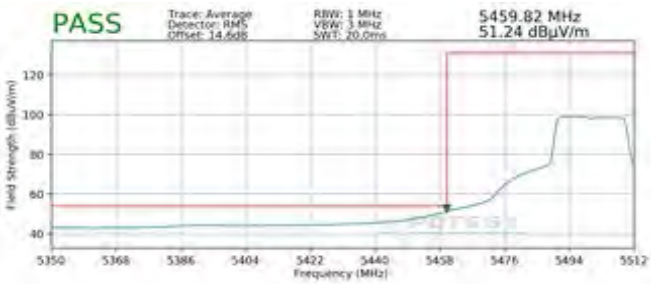
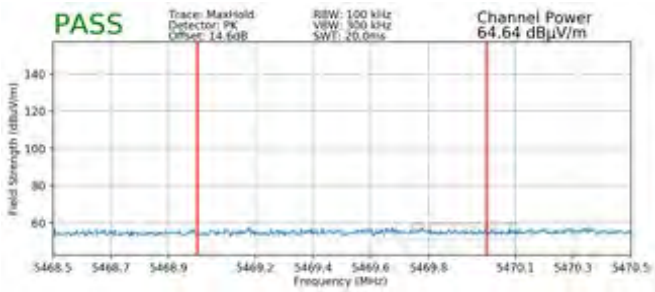
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100

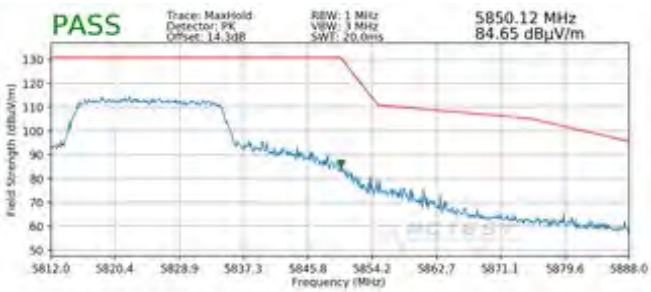


Plot 7-296. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)



Plot 7-297. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)

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



Plot 7-298. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

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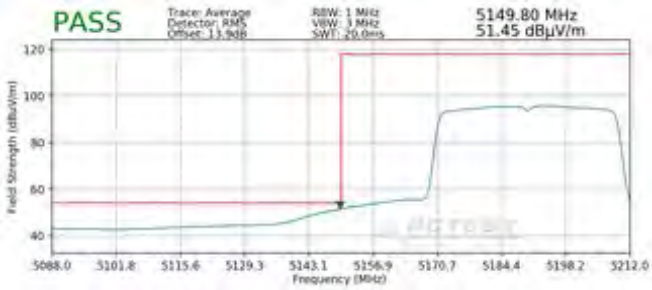
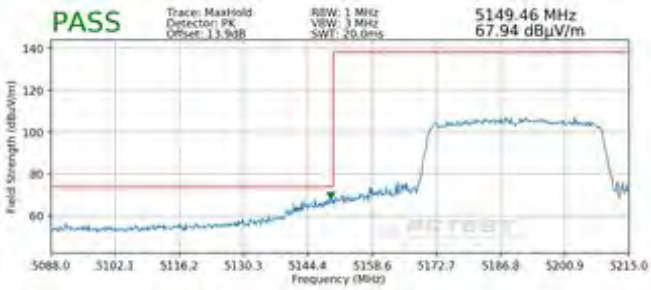
7.5.6 SISO Antenna-1 Radiated Band Edge Measurements (40MHz BW)

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

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

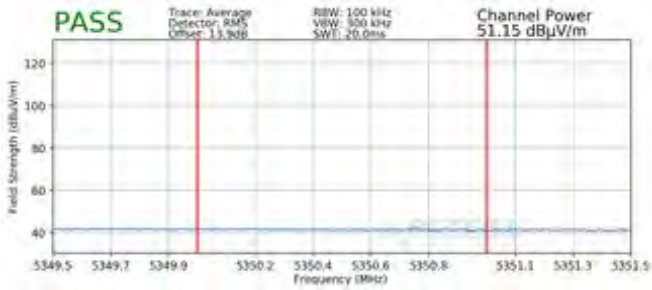


Plot 7-299. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)

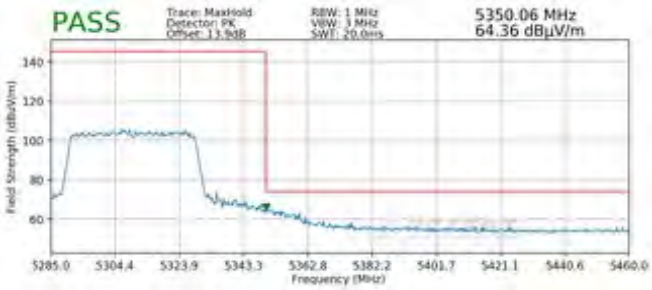


Plot 7-300. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

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



Plot 7-301. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)



Plot 7-302. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

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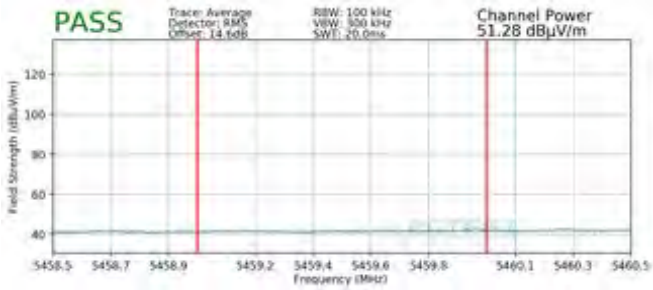
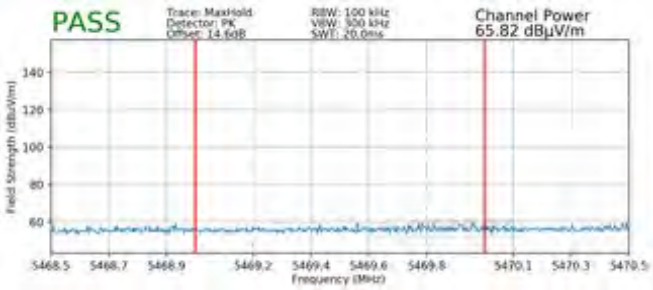
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5510MHz
Channel:	102

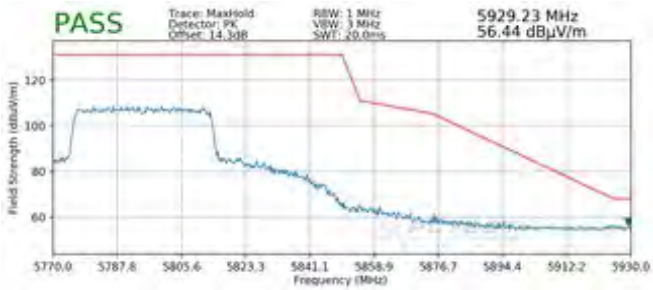


Plot 7-303. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)



Plot 7-304. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)

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



Plot 7-305. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

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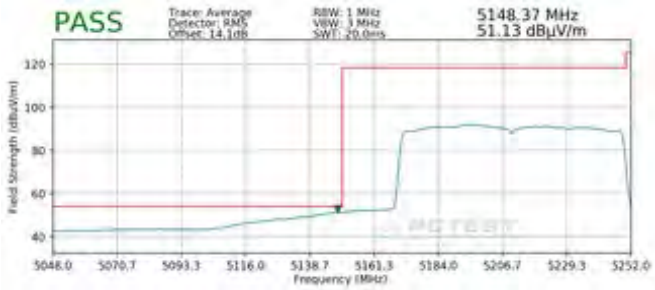
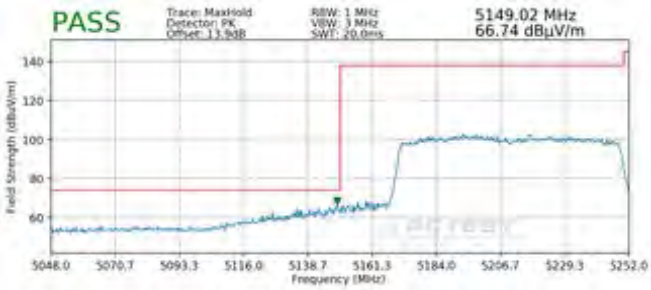
7.5.7 SISO Antenna-1 Radiated Band Edge Measurements (80MHz BW)

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

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

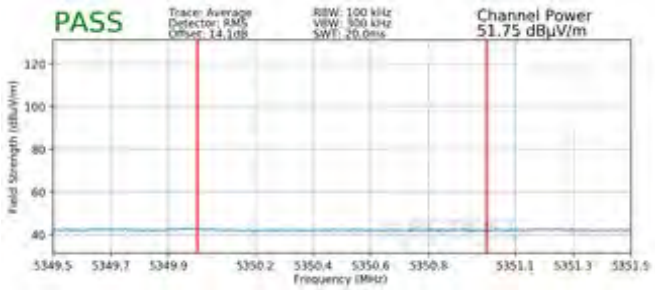


Plot 7-306. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)

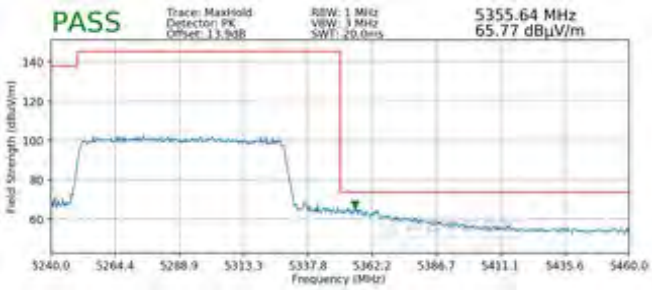


Plot 7-307. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

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



Plot 7-308. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)



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

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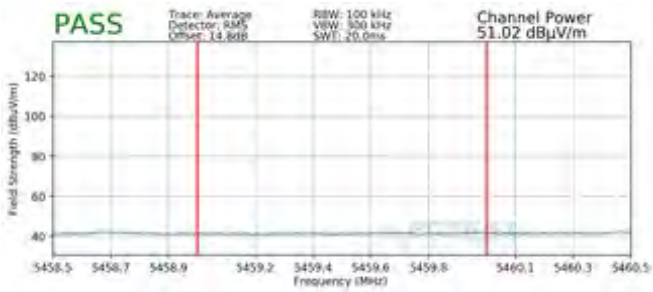
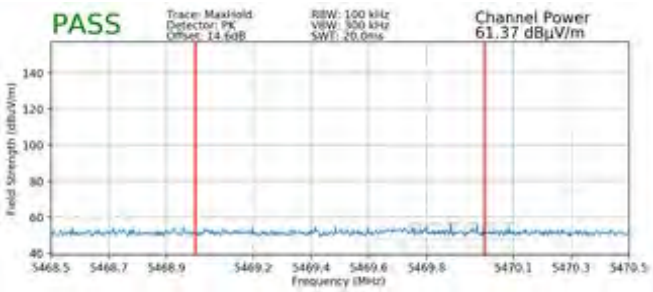
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5530MHz
Channel:	106

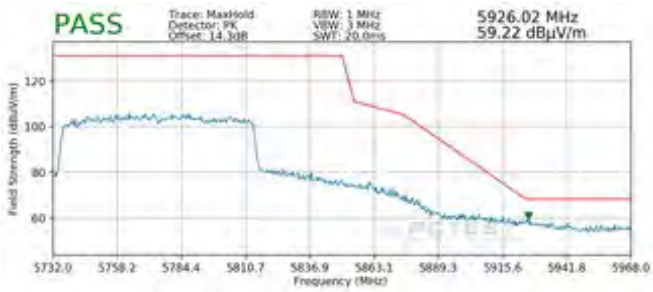


Plot 7-310. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)



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

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



Plot 7-312. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

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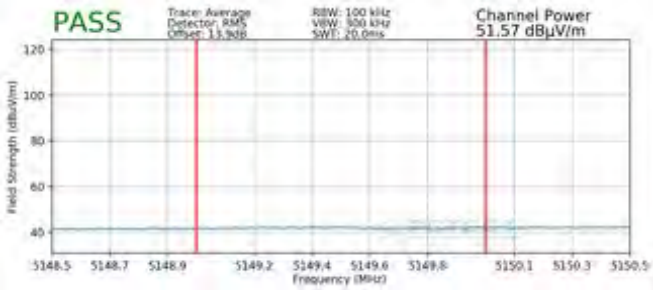
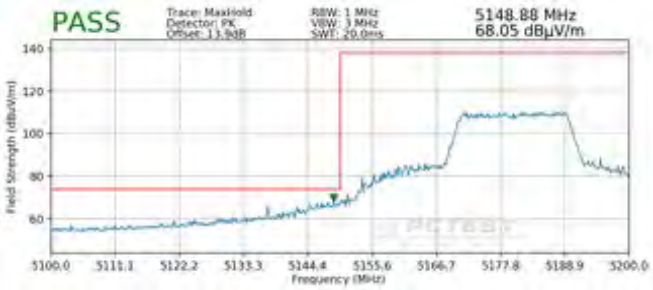
7.5.8 SISO Antenna-2 Radiated Band Edge Measurements (20MHz BW)

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

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

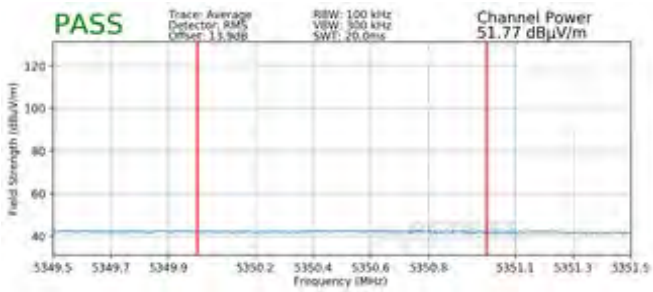


Plot 7-313. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)

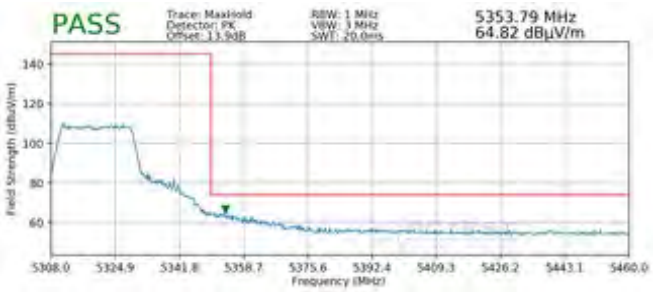


Plot 7-314. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)

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



Plot 7-315. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)



Plot 7-316. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)

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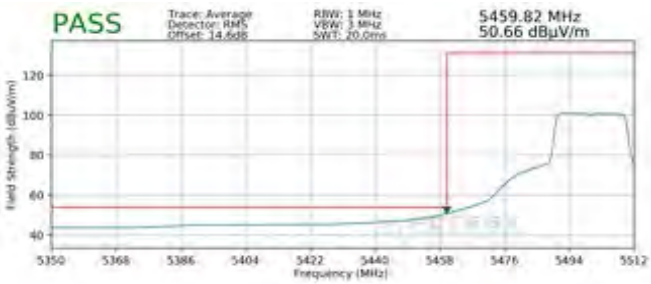
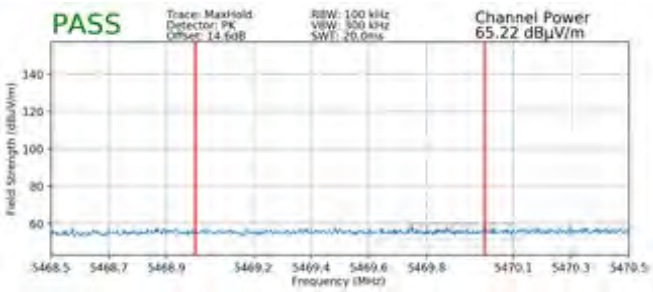
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100

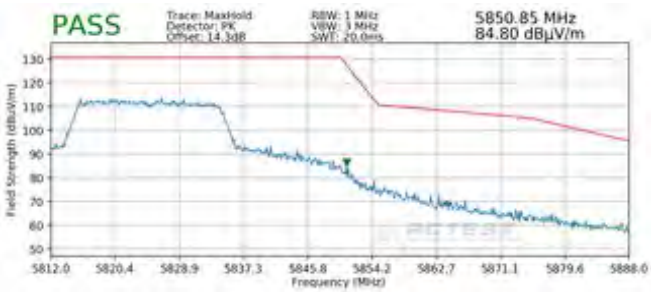


Plot 7-317. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)



Plot 7-318. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)

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



Plot 7-319. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)

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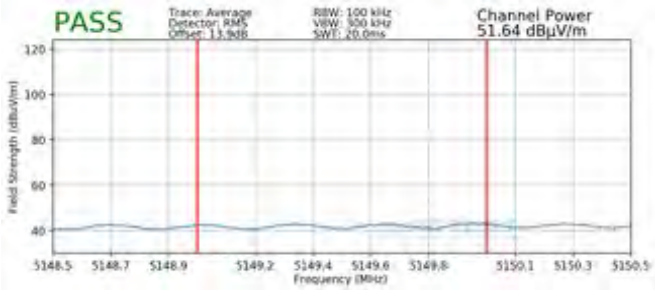
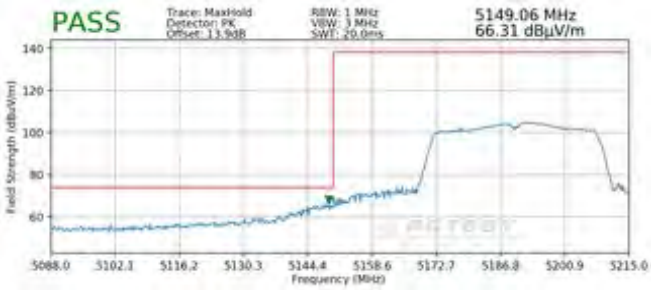
7.5.9 SISO Antenna-2 Radiated Band Edge Measurements (40MHz BW)

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

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

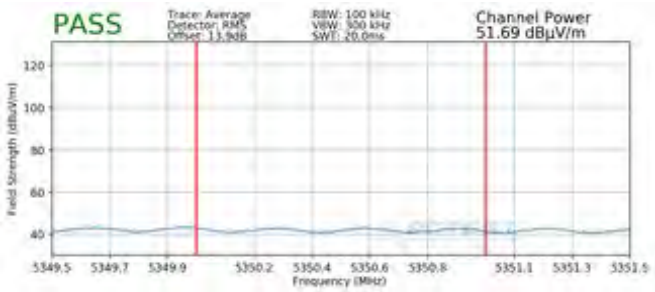


Plot 7-320. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)

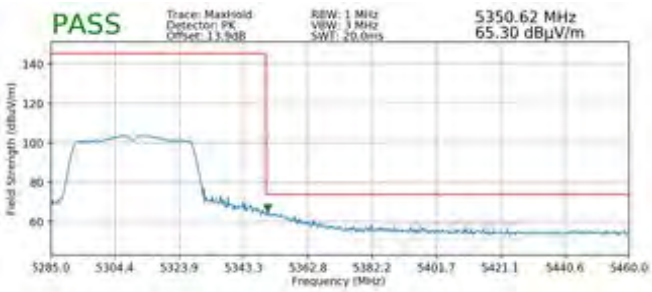


Plot 7-321. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-322. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)



Plot 7-323. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)

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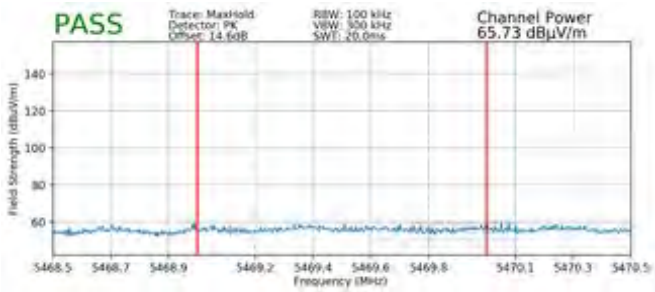
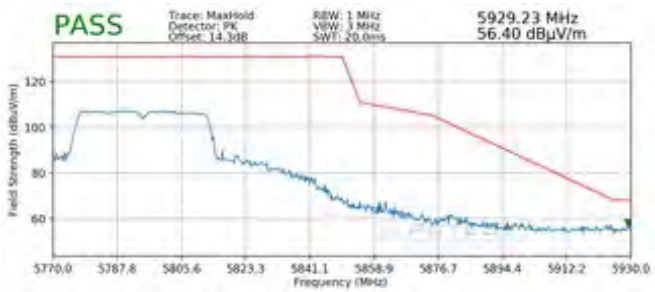
Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5510MHz
Channel:	102

Plot 7-324. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)



Plot 7-325. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5795MHz
Channel:	159



Plot 7-326. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)

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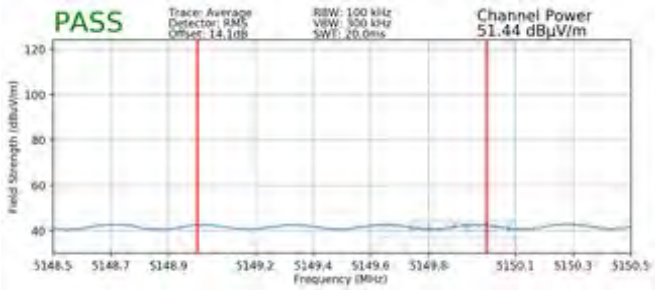
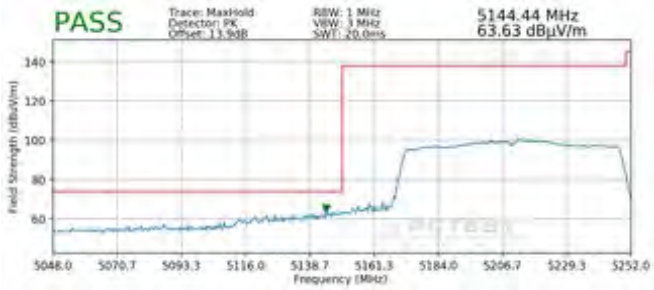
7.5.10 SISO Antenna-2 Radiated Band Edge Measurements (80MHz BW)

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

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

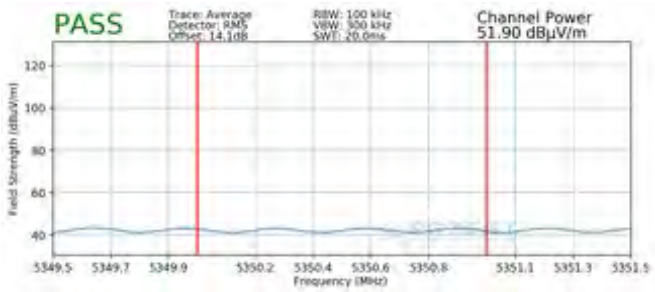


Plot 7-327. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)

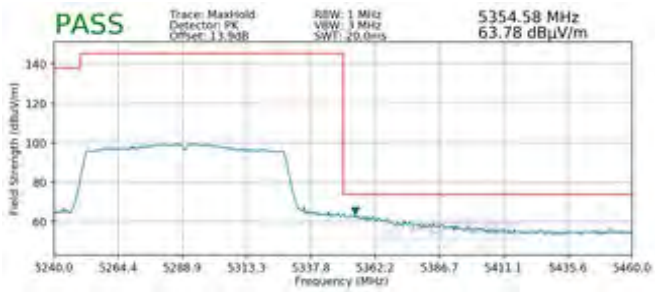


Plot 7-328. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



Plot 7-329. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)



Plot 7-330. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)

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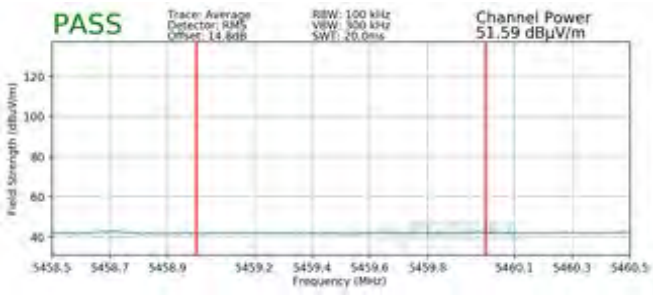
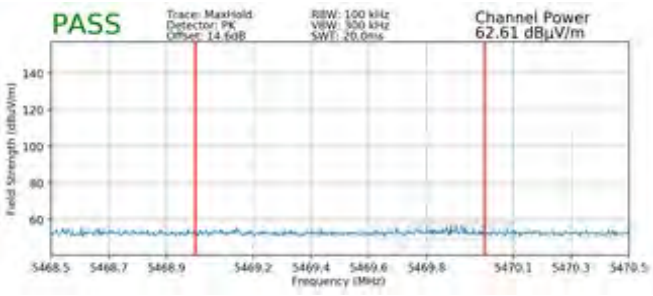
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5530MHz
Channel:	106

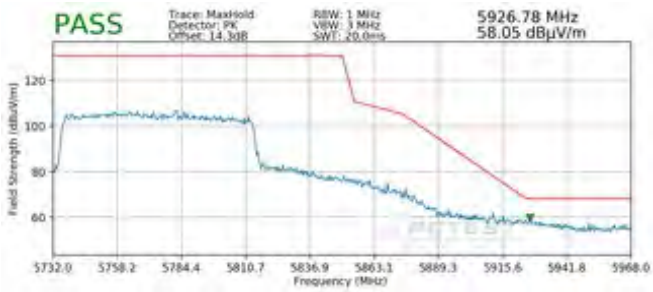


Plot 7-331. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)



Plot 7-332. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)

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



Plot 7-333. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)

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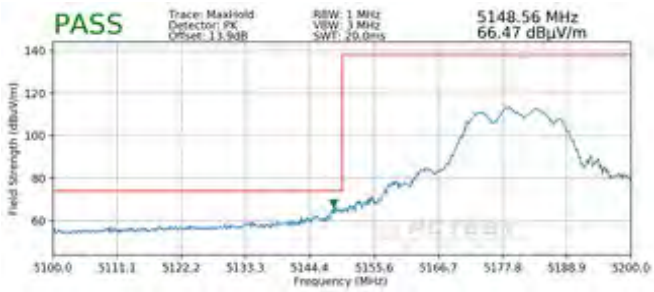
7.5.11 MIMO Radiated Band Edge Measurements (20MHz BW)

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

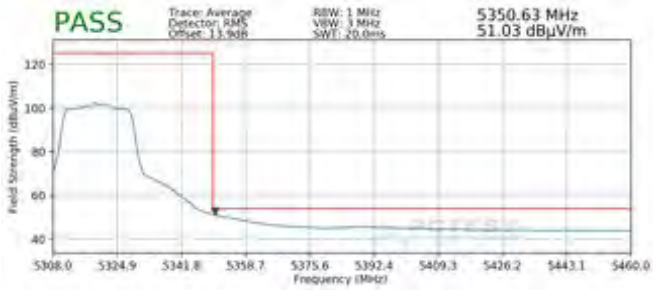
Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

Plot 7-334. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

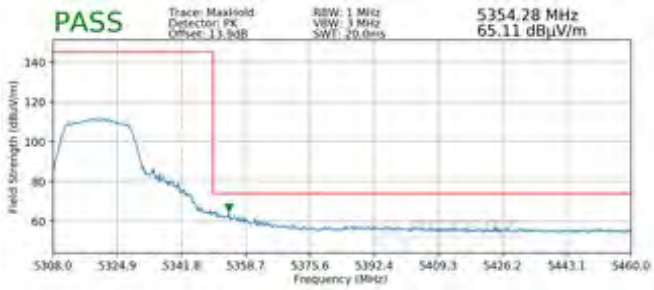


Plot 7-335. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



Plot 7-336. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



Plot 7-337. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

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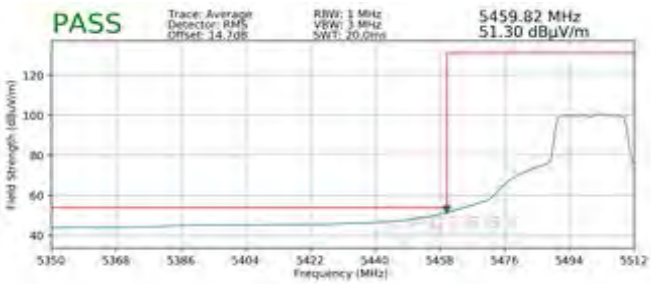
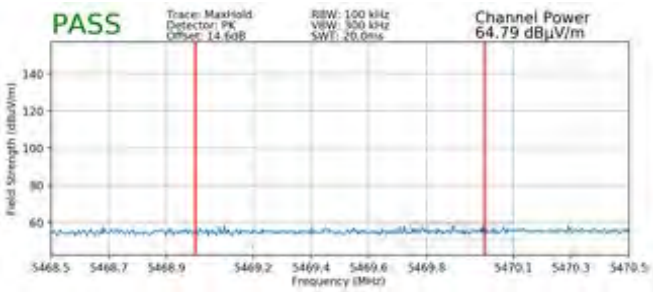
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100

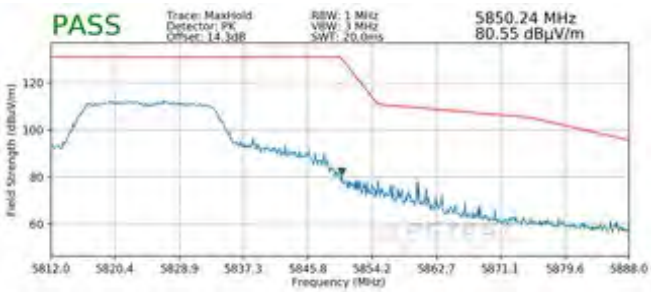


Plot 7-338. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-339. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5825MHz
Channel:	165



Plot 7-340. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

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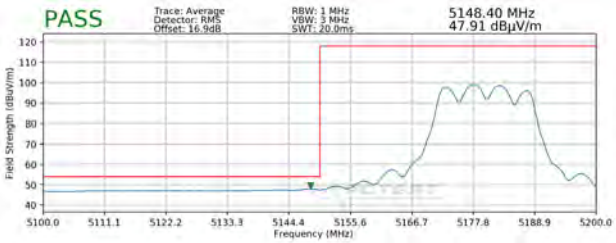
Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36



Plot 7-341. Radiated Band Edge Plot MIMO (Average – WCP)

Plot 7-342. Radiated Band Edge Plot MIMO (Peak – WCP)

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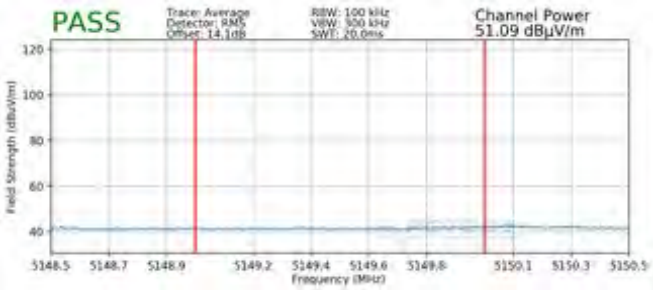
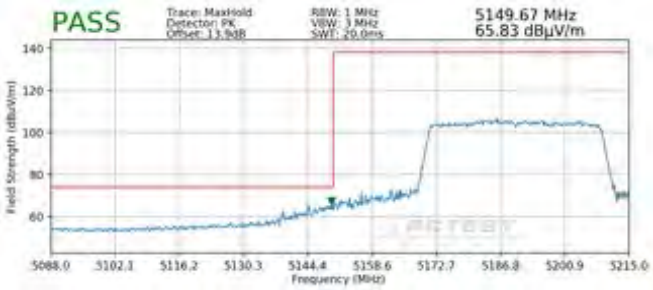
7.5.12 MIMO Radiated Band Edge Measurements (40MHz BW)

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

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

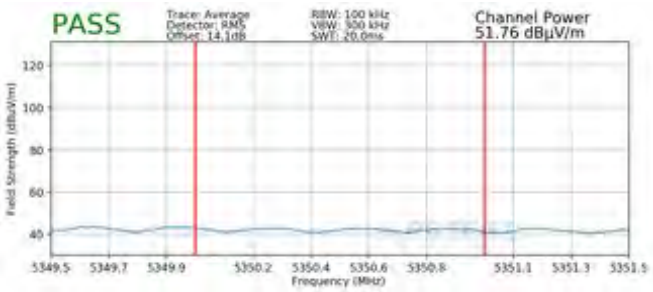


Plot 7-343. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

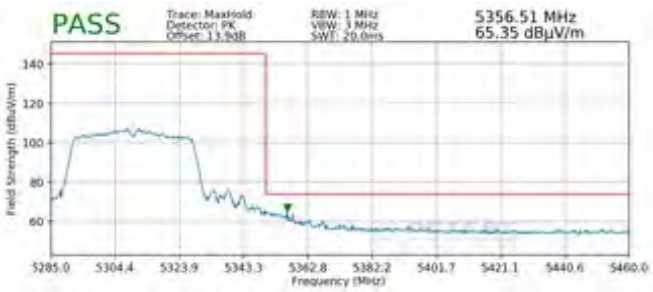


Plot 7-344. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-345. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



Plot 7-346. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

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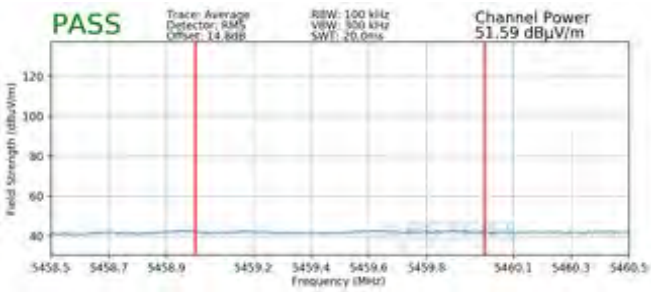
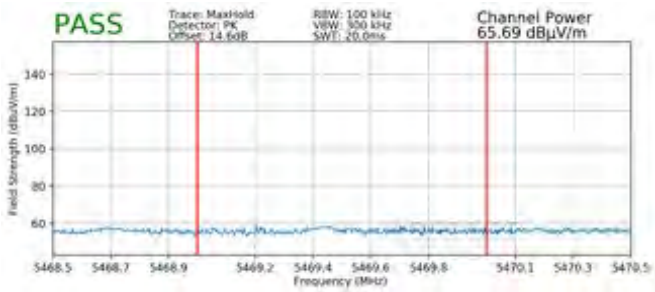
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5510MHz
Channel:	102

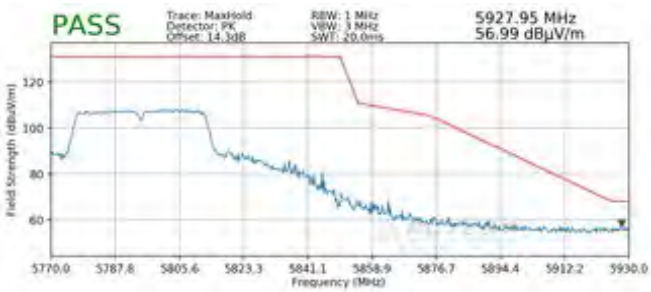


Plot 7-347. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-348. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5795MHz
Channel:	159



Plot 7-349. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

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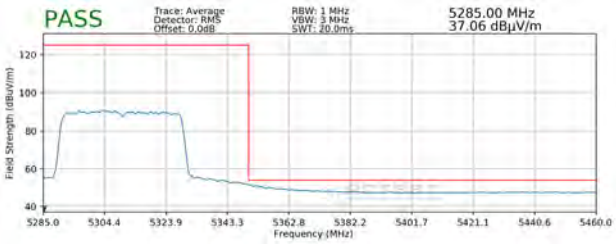
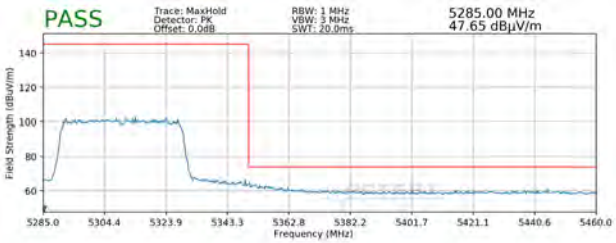
Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-350. Radiated Band Edge Plot MIMO (Average – WCP)



Plot 7-351. Radiated Band Edge Plot MIMO (Peak – WCP)

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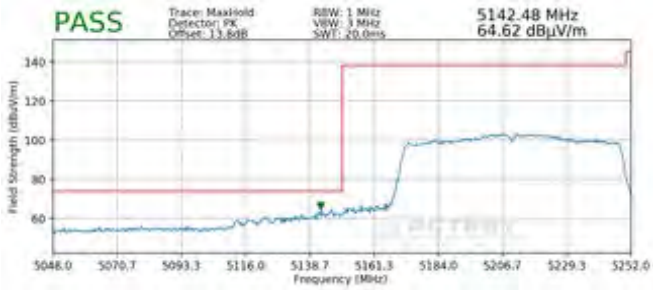
7.5.13 MIMO Radiated Band Edge Measurements (80MHz BW)

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

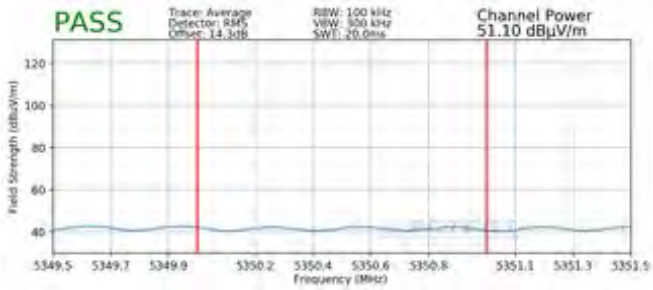
Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

Plot 7-352. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

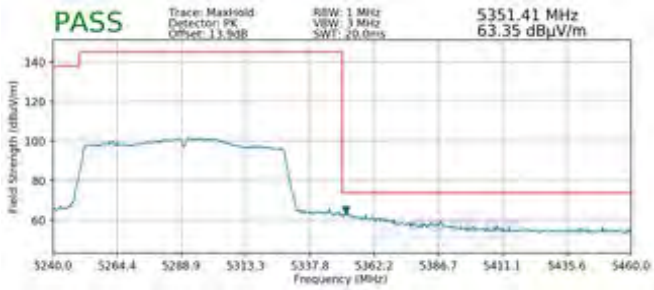


Plot 7-353. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



Plot 7-354. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



Plot 7-355. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

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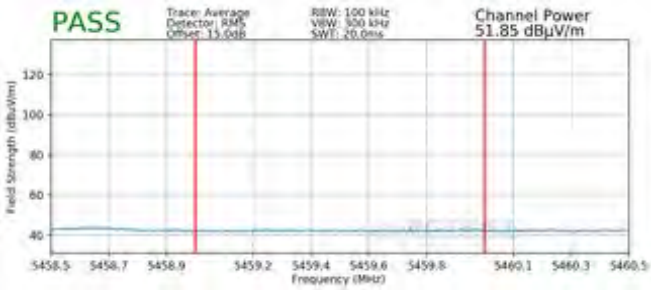
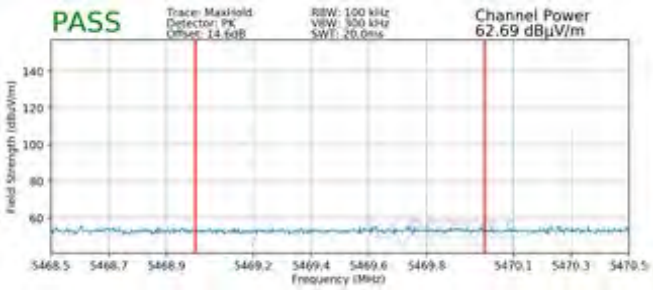
Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5530MHz
Channel:	106

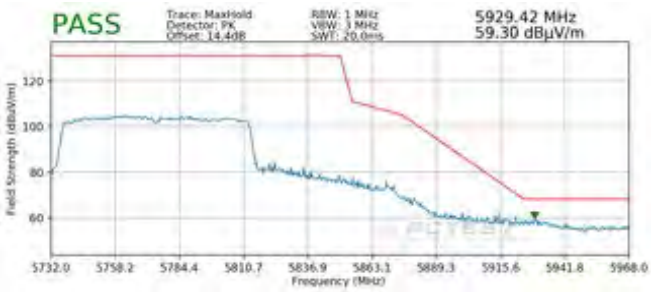


Plot 7-356. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-357. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5775MHz
Channel:	155



Plot 7-358. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

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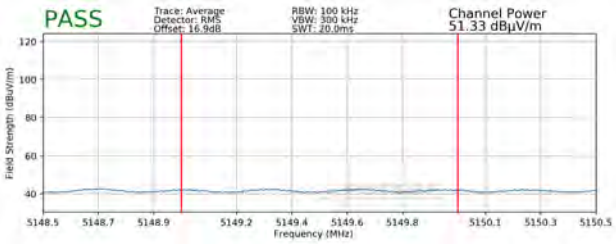
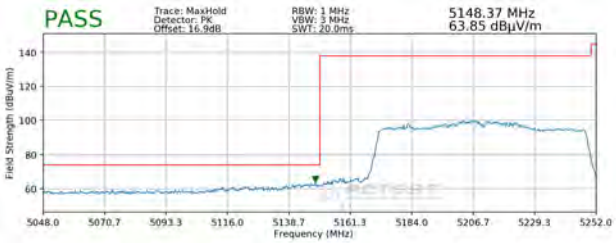
Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42



Plot 7-359. Radiated Band Edge Plot MIMO (Average – WCP)



Plot 7-360. Radiated Band Edge Plot MIMO (Peak – WCP)

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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 7-71 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 7-71. 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.

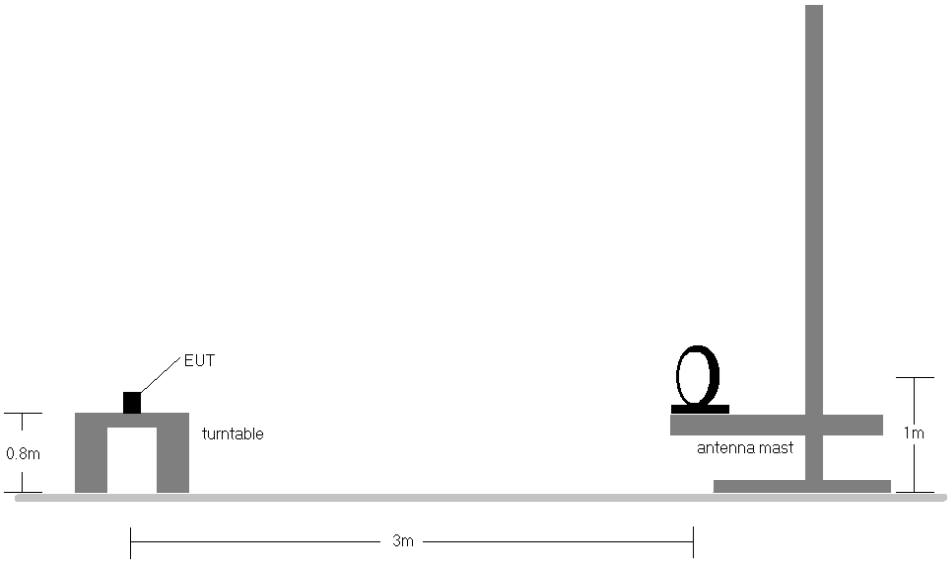

Figure 7-6. Radiated Test Setup < 30MHz

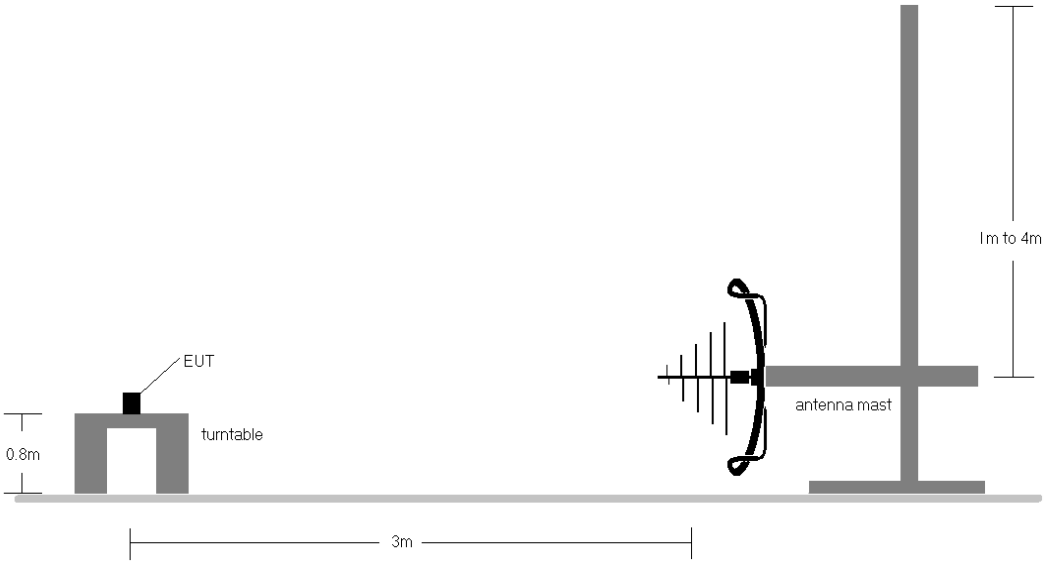

Figure 7-7. Radiated Test Setup < 1GHz

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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 7-71.
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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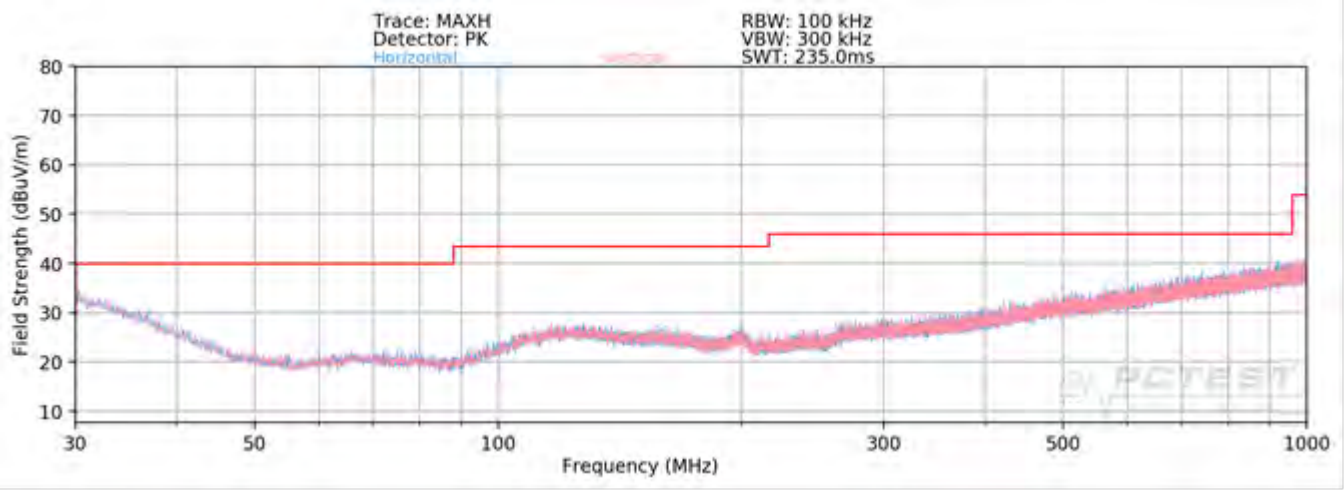
SISO Antenna-1 Radiated Spurious Emissions Measurements (Below 1GHz)
§15.209; RSS-Gen [8.9]



Plot 7-361. Radiated Spurious Plot below 1GHz SISO ANT1 (802.11a – U3 Ch. 157)

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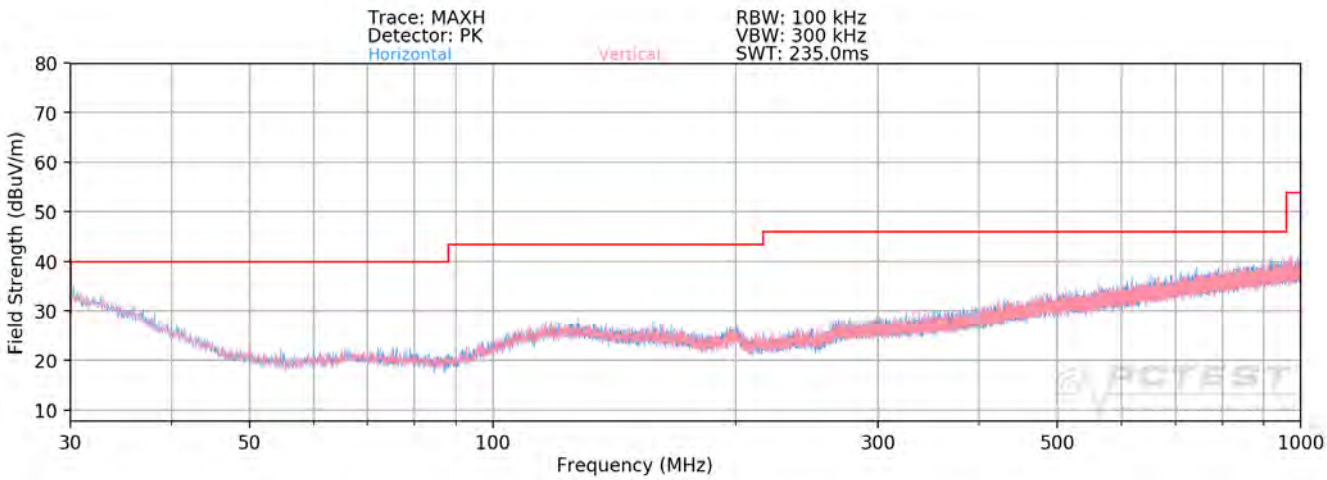
SISO Antenna-2 Radiated Spurious Emissions Measurements (Below 1GHz)
§15.209; RSS-Gen [8.9]



Plot 7-362. Radiated Spurious Plot below 1GHz SISO ANT2 (802.11a – U3 Ch. 157)

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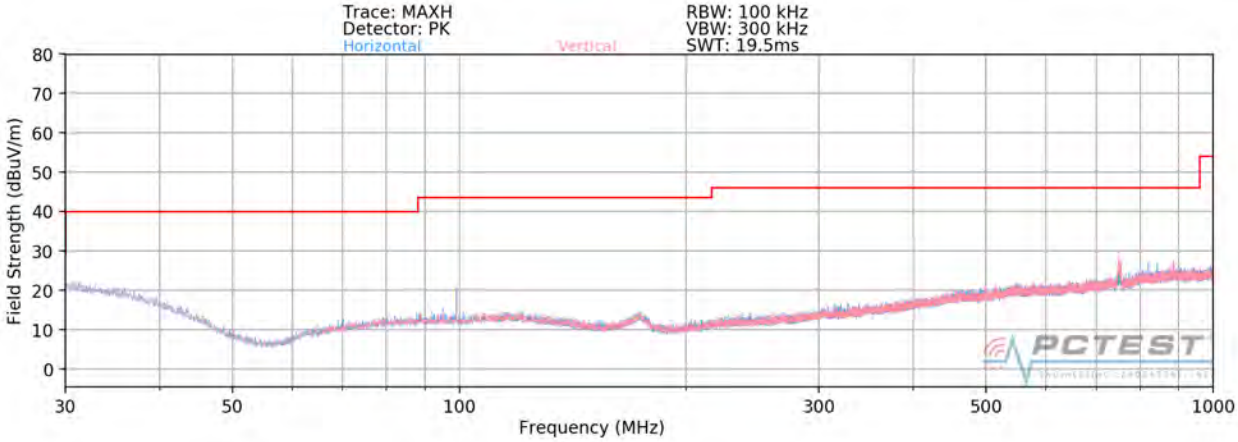
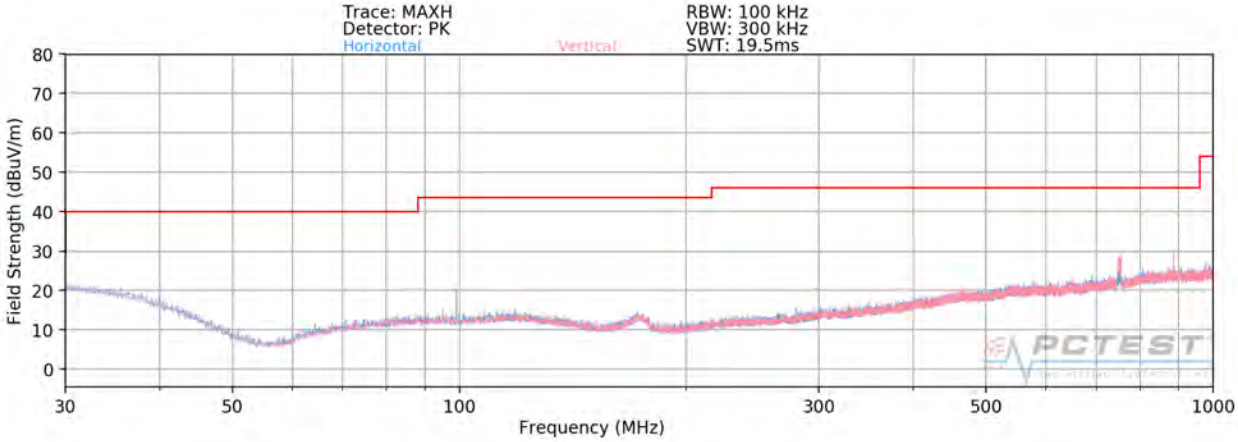
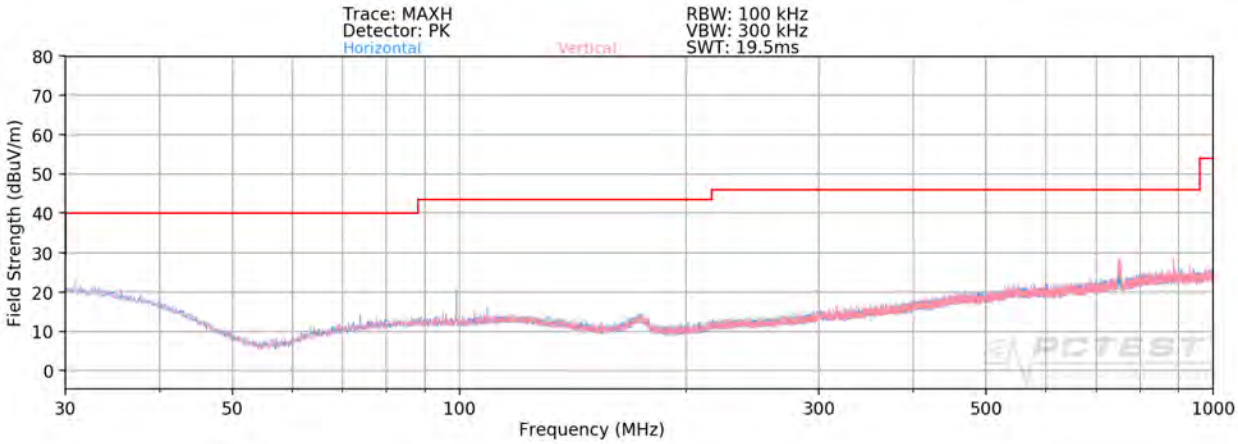
Simultaneous Tx Radiated Spurious Emissions Measurements (Below 1GHz)
§15.209; RSS-Gen [8.9]



Plot 7-363. Radiated Spurious Plot below 1GHz (2.4GHz – 5GHz)



Plot 7-364. Radiated Spurious Plot below 1GHz (5GHz – 2.4 GHz)



Plot 7-365. Radiated Spurious Plot below 1GHz (Dual Band Simult. Tx)

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7.8 Line-Conducted Test Data

§15.407; RSS-Gen [8.8]

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN 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 conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).

Frequency of emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-72. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Section 6.2

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
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 diagram below.

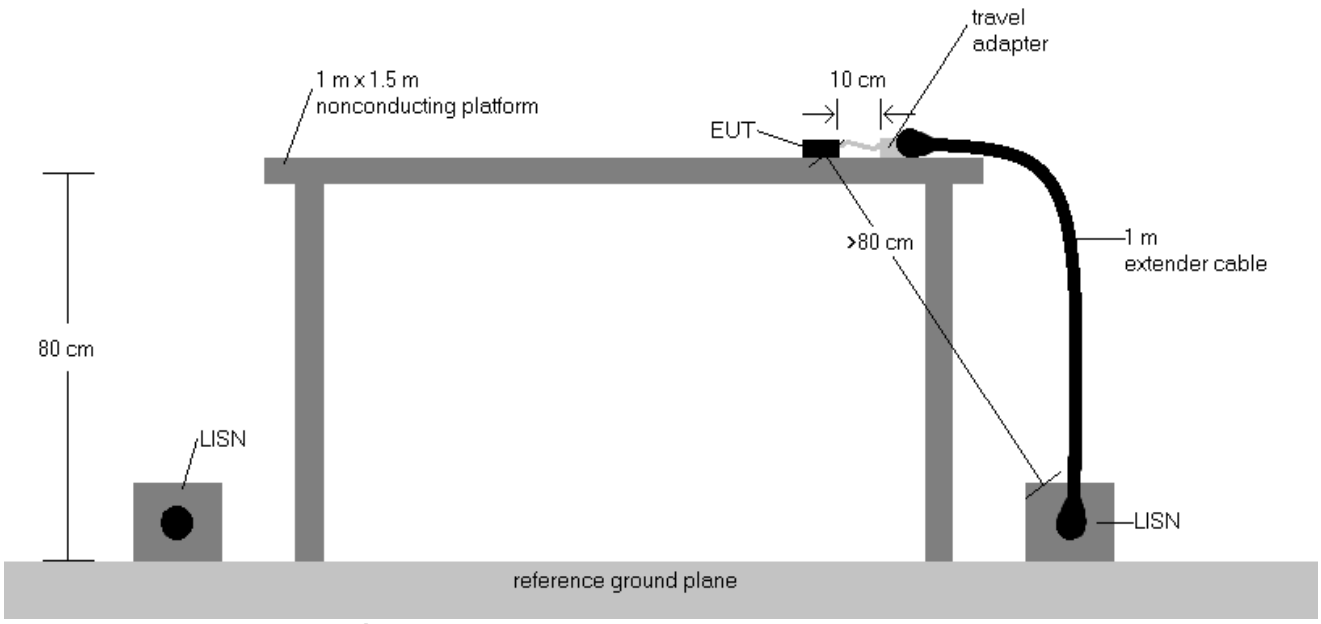

Figure 7-8. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
3. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
4. QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Corr. (dB)
5. Margin (dB) = QP/AV Limit (dBμV) - QP/AV Level (dBμV)
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

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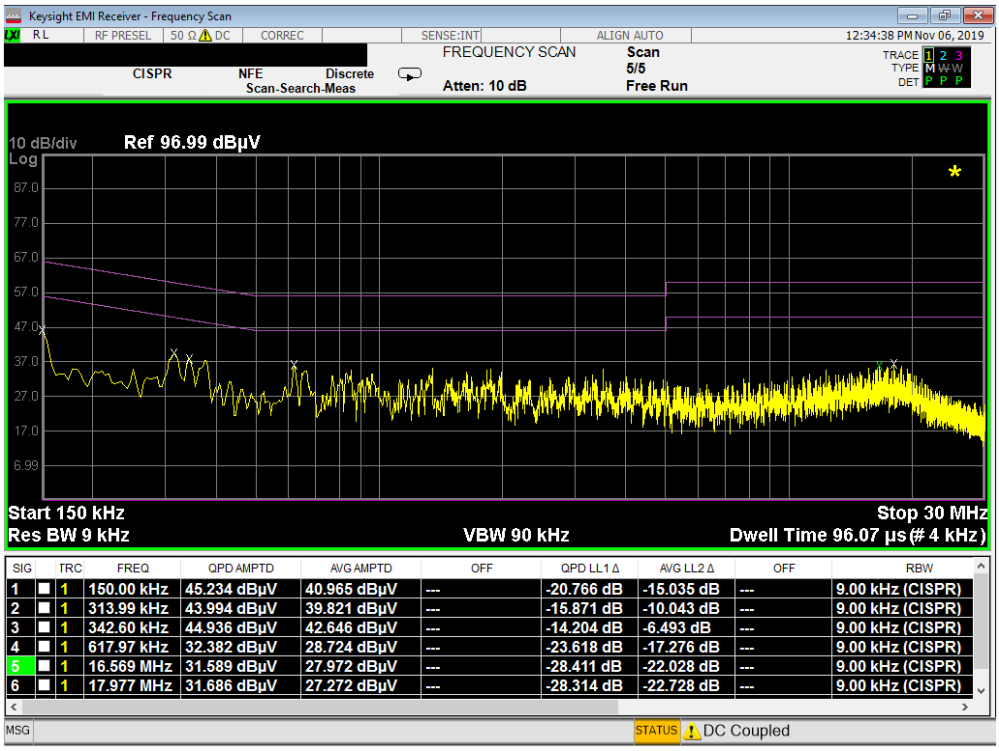
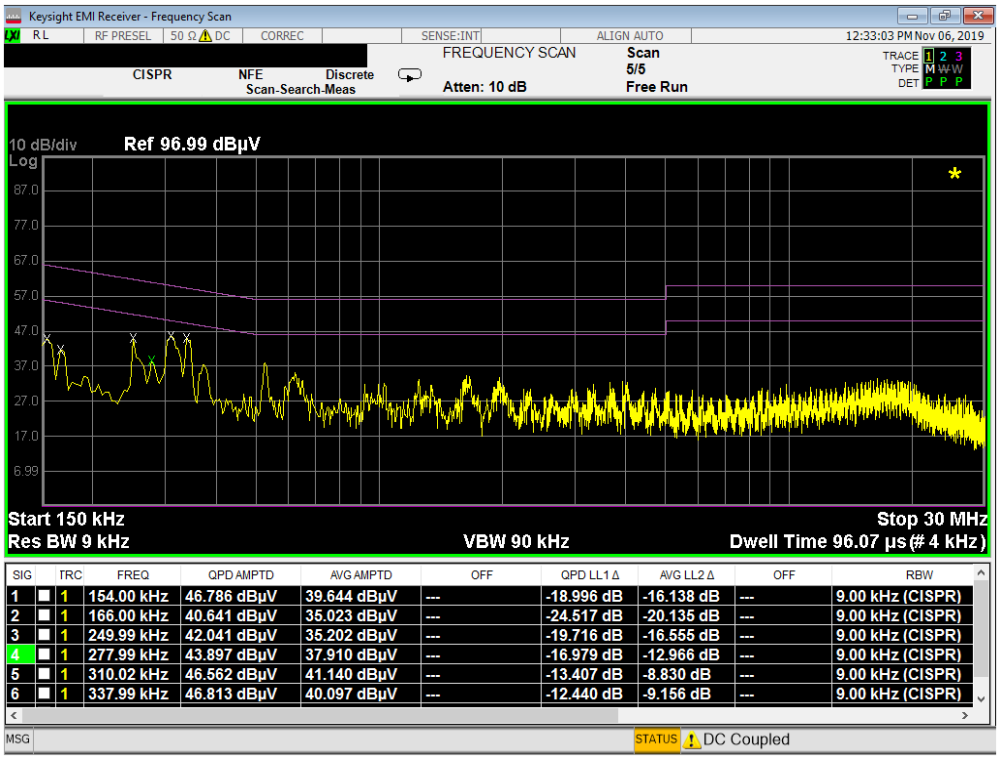


SIG	TRC	FREQ	QPD AMPTD	AVG AMPTD	OFF	QPD LL1 Δ	AVG LL2 Δ	OFF	RBW
1	1	150.00 kHz	45.234 dBµV	40.965 dBµV	---	-20.766 dB	-15.035 dB	---	9.00 kHz (CISPR)
2	1	313.99 kHz	43.994 dBµV	39.821 dBµV	---	-15.871 dB	-10.043 dB	---	9.00 kHz (CISPR)
3	1	342.60 kHz	44.936 dBµV	42.646 dBµV	---	-14.204 dB	-6.493 dB	---	9.00 kHz (CISPR)
4	1	617.97 kHz	32.382 dBµV	28.724 dBµV	---	-23.618 dB	-17.276 dB	---	9.00 kHz (CISPR)
5	1	16.569 MHz	31.589 dBµV	27.972 dBµV	---	-28.411 dB	-22.028 dB	---	9.00 kHz (CISPR)
6	1	17.977 MHz	31.686 dBµV	27.272 dBµV	---	-28.314 dB	-22.728 dB	---	9.00 kHz (CISPR)

Plot 7-366. Line Conducted Plot with 802.11a UNII Band 1 (L1)



SIG	TRC	FREQ	QPD AMPTD	AVG AMPTD	OFF	QPD LL1 Δ	AVG LL2 Δ	OFF	RBW
1	1	154.00 kHz	46.786 dBµV	39.644 dBµV	---	-18.996 dB	-16.138 dB	---	9.00 kHz (CISPR)
2	1	166.00 kHz	40.641 dBµV	35.023 dBµV	---	-24.517 dB	-20.135 dB	---	9.00 kHz (CISPR)
3	1	249.99 kHz	42.041 dBµV	35.202 dBµV	---	-19.716 dB	-16.555 dB	---	9.00 kHz (CISPR)
4	1	277.99 kHz	43.897 dBµV	37.910 dBµV	---	-16.979 dB	-12.966 dB	---	9.00 kHz (CISPR)
5	1	310.02 kHz	46.562 dBµV	41.140 dBµV	---	-13.407 dB	-8.830 dB	---	9.00 kHz (CISPR)
6	1	337.99 kHz	46.813 dBµV	40.097 dBµV	---	-12.440 dB	-9.156 dB	---	9.00 kHz (CISPR)

Plot 7-367. Line Conducted Plot with 802.11a UNII Band 1 (N)

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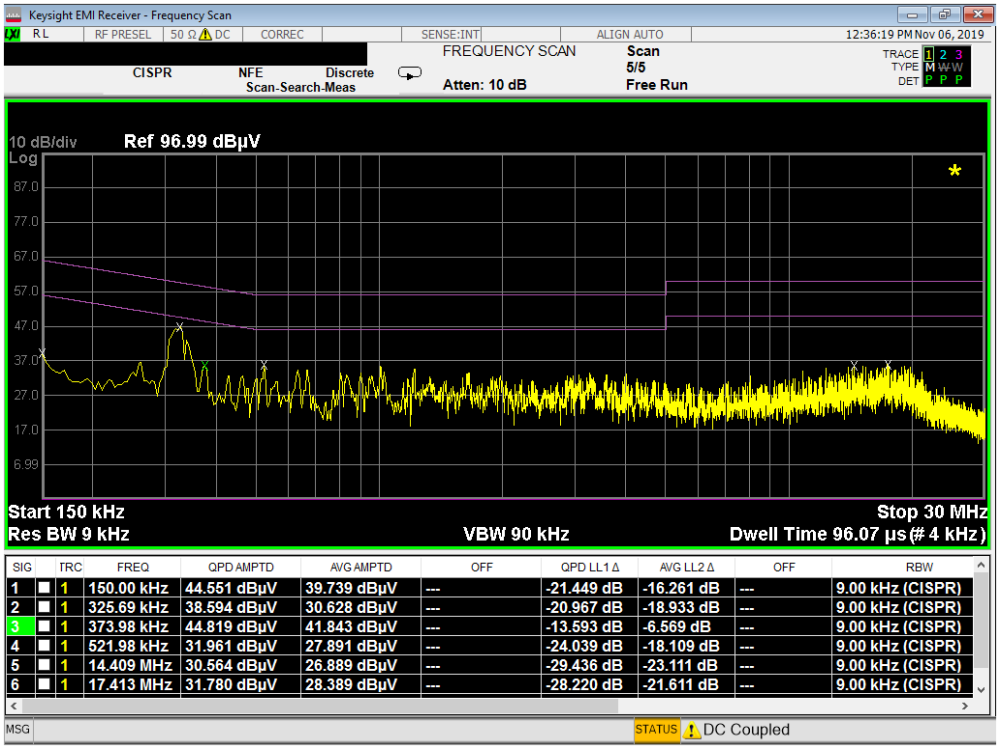
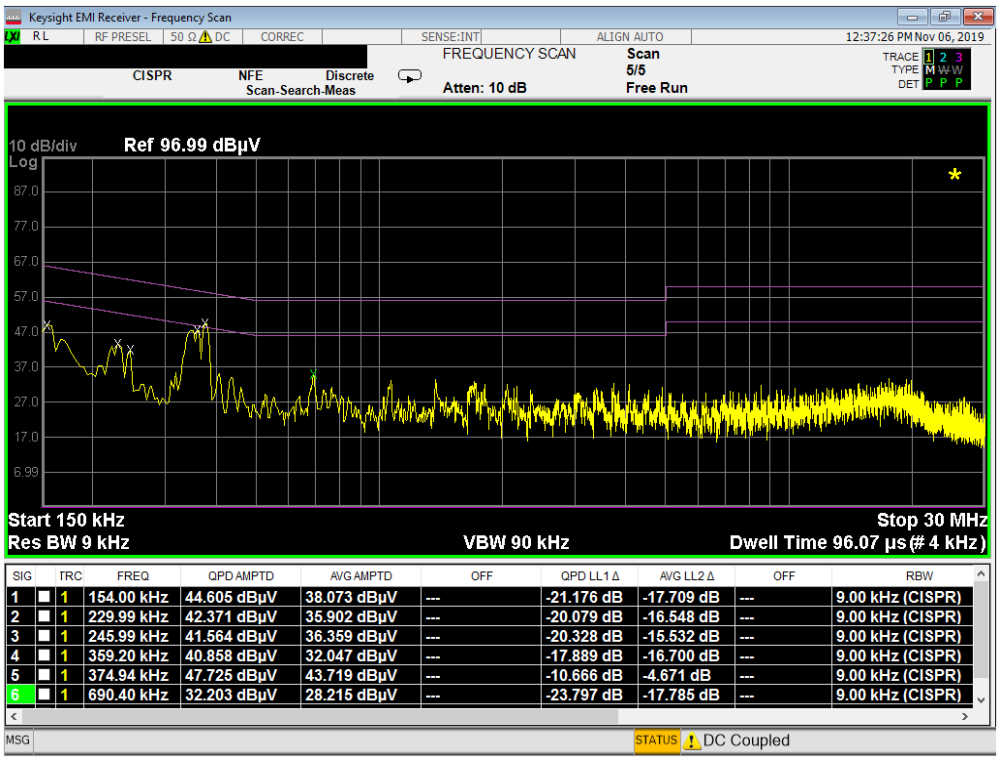


Plot 7-368. Line Conducted Plot with 802.11a UNII Band 2A (L1)



Plot 7-369. Line Conducted Plot with 802.11a UNII Band 2A (N)

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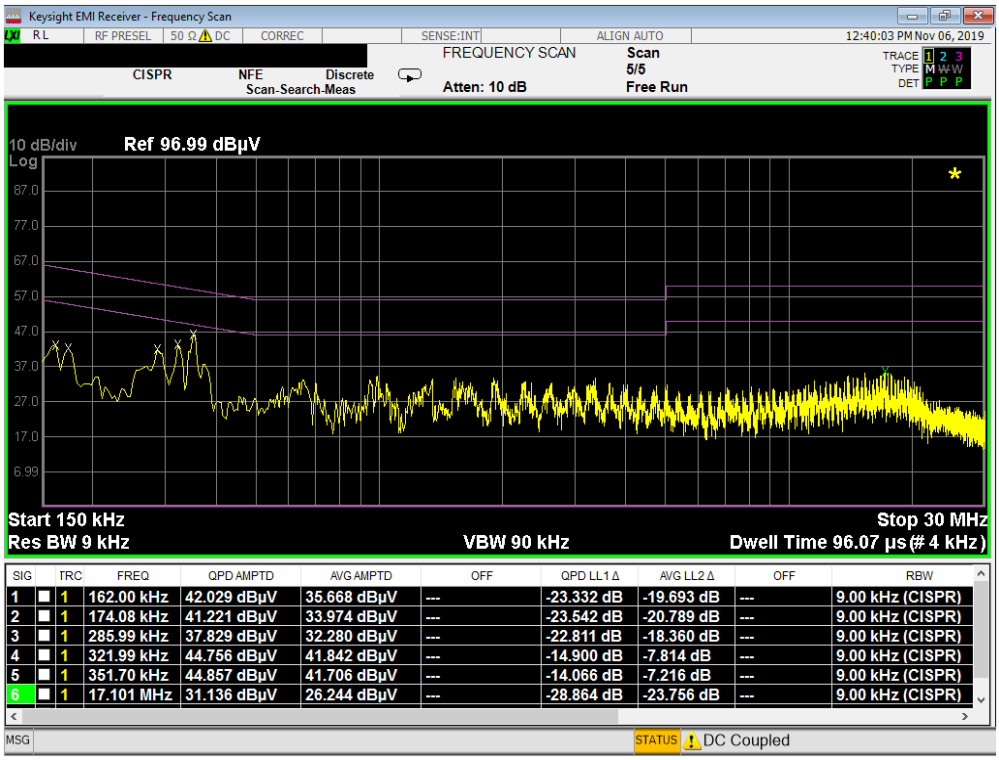
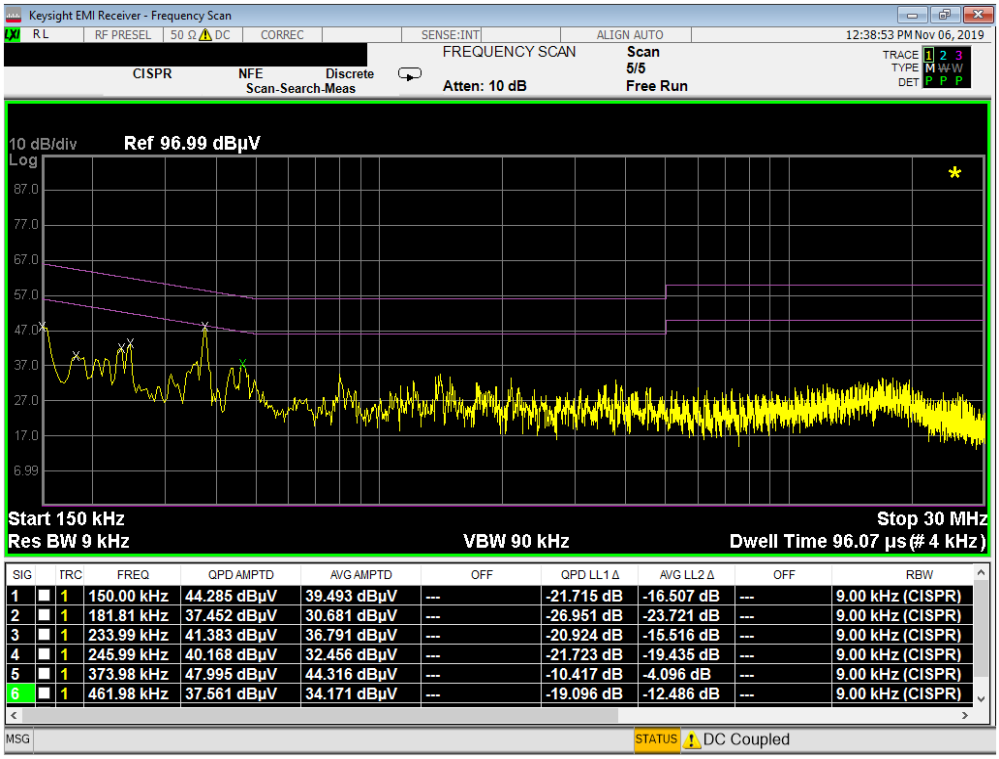


SIG	TRC	FREQ	QPD AMPTD	AVG AMPTD	OFF	QPD LL1 Δ	AVG LL2 Δ	OFF	RBW
1	1	162.00 kHz	42.029 dBµV	35.668 dBµV	---	-23.332 dB	-19.693 dB	---	9.00 kHz (CISPR)
2	1	174.08 kHz	41.221 dBµV	33.974 dBµV	---	-23.542 dB	-20.789 dB	---	9.00 kHz (CISPR)
3	1	285.99 kHz	37.829 dBµV	32.280 dBµV	---	-22.811 dB	-18.360 dB	---	9.00 kHz (CISPR)
4	1	321.99 kHz	44.756 dBµV	41.842 dBµV	---	-14.900 dB	-7.814 dB	---	9.00 kHz (CISPR)
5	1	351.70 kHz	44.857 dBµV	41.706 dBµV	---	-14.066 dB	-7.216 dB	---	9.00 kHz (CISPR)
6	1	17.101 MHz	31.136 dBµV	26.244 dBµV	---	-28.864 dB	-23.756 dB	---	9.00 kHz (CISPR)

Plot 7-370. Line Conducted Plot with 802.11a UNII Band 2C (L1)



SIG	TRC	FREQ	QPD AMPTD	AVG AMPTD	OFF	QPD LL1 Δ	AVG LL2 Δ	OFF	RBW
1	1	150.00 kHz	44.285 dBµV	39.493 dBµV	---	-21.715 dB	-16.507 dB	---	9.00 kHz (CISPR)
2	1	181.81 kHz	37.452 dBµV	30.681 dBµV	---	-26.951 dB	-23.721 dB	---	9.00 kHz (CISPR)
3	1	233.99 kHz	41.383 dBµV	36.791 dBµV	---	-20.924 dB	-15.516 dB	---	9.00 kHz (CISPR)
4	1	245.99 kHz	40.168 dBµV	32.456 dBµV	---	-21.723 dB	-19.435 dB	---	9.00 kHz (CISPR)
5	1	373.98 kHz	47.995 dBµV	44.316 dBµV	---	-10.417 dB	-4.096 dB	---	9.00 kHz (CISPR)
6	1	461.98 kHz	37.561 dBµV	34.171 dBµV	---	-19.096 dB	-12.486 dB	---	9.00 kHz (CISPR)

Plot 7-371. Line Conducted Plot with 802.11a UNII Band 2C (N)

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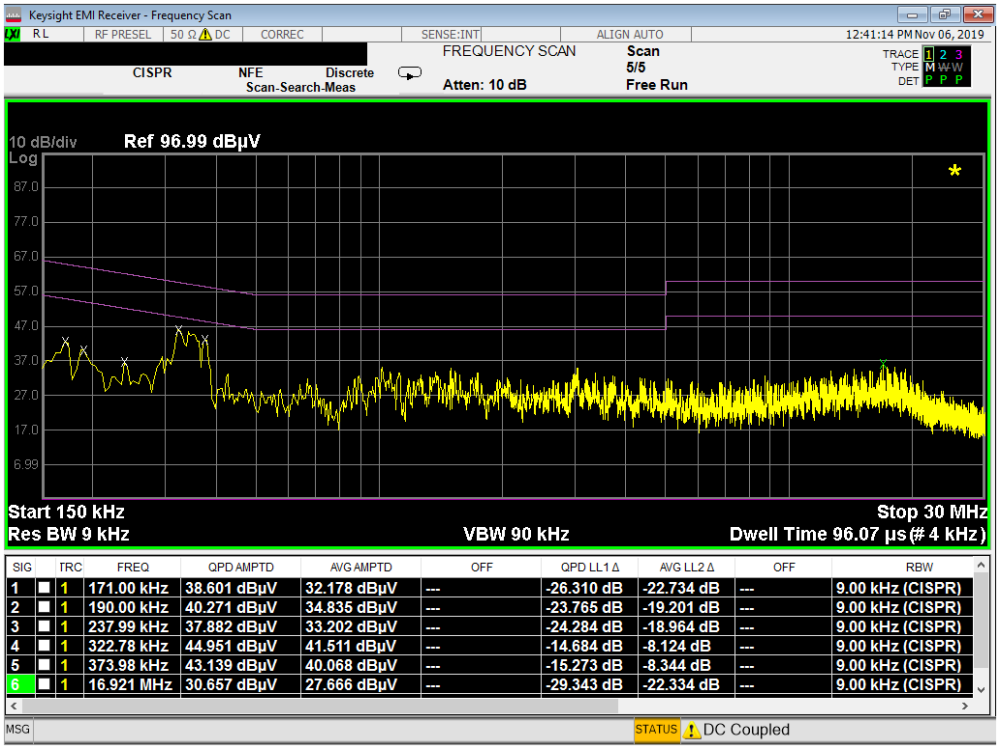
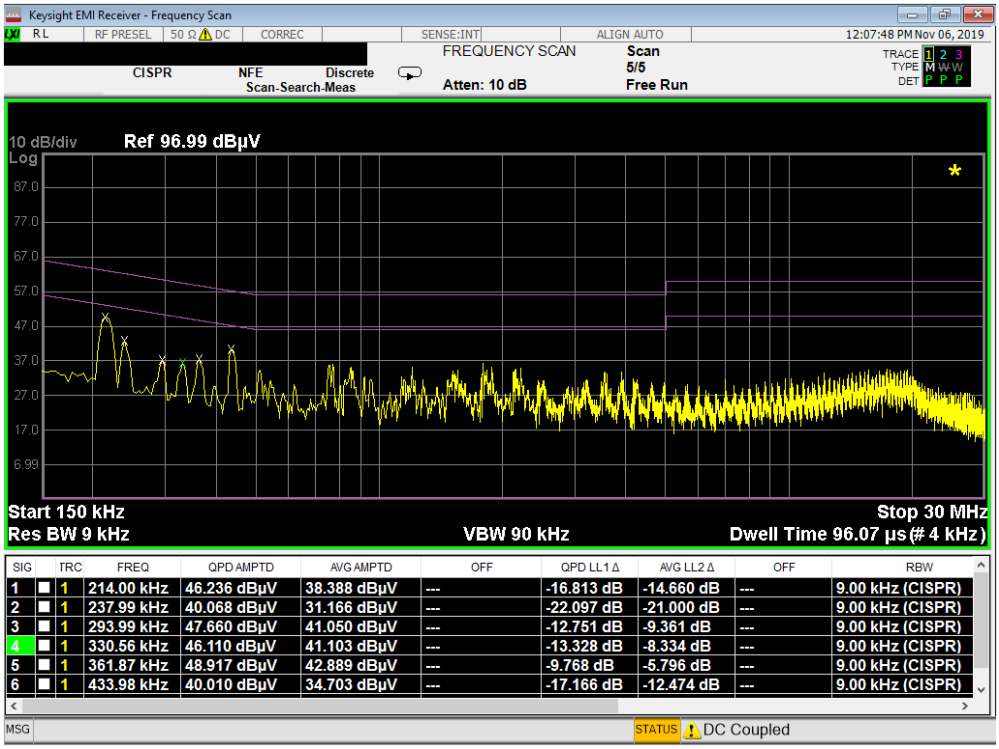


SIG	TRC	FREQ	QPD AMPTD	AVG AMPTD	OFF	QPD LL1 Δ	AVG LL2 Δ	OFF	RBW
1	1	171.00 kHz	38.601 dBµV	32.178 dBµV	---	-26.310 dB	-22.734 dB	---	9.00 kHz (CISPR)
2	1	190.00 kHz	40.271 dBµV	34.835 dBµV	---	-23.765 dB	-19.201 dB	---	9.00 kHz (CISPR)
3	1	237.99 kHz	37.882 dBµV	33.202 dBµV	---	-24.284 dB	-18.964 dB	---	9.00 kHz (CISPR)
4	1	322.78 kHz	44.951 dBµV	41.511 dBµV	---	-14.684 dB	-8.124 dB	---	9.00 kHz (CISPR)
5	1	373.98 kHz	43.139 dBµV	40.068 dBµV	---	-15.273 dB	-8.344 dB	---	9.00 kHz (CISPR)
6	1	16.921 MHz	30.657 dBµV	27.666 dBµV	---	-29.343 dB	-22.334 dB	---	9.00 kHz (CISPR)

Plot 7-372. Line Conducted Plot with 802.11a UNII Band 3 (L1)



SIG	TRC	FREQ	QPD AMPTD	AVG AMPTD	OFF	QPD LL1 Δ	AVG LL2 Δ	OFF	RBW
1	1	214.00 kHz	46.236 dBµV	38.388 dBµV	---	-16.813 dB	-14.660 dB	---	9.00 kHz (CISPR)
2	1	237.99 kHz	40.068 dBµV	31.166 dBµV	---	-22.097 dB	-21.000 dB	---	9.00 kHz (CISPR)
3	1	293.99 kHz	47.660 dBµV	41.050 dBµV	---	-12.751 dB	-9.361 dB	---	9.00 kHz (CISPR)
4	1	330.56 kHz	46.110 dBµV	41.103 dBµV	---	-13.328 dB	-8.334 dB	---	9.00 kHz (CISPR)
5	1	361.87 kHz	48.917 dBµV	42.889 dBµV	---	-9.768 dB	-5.796 dB	---	9.00 kHz (CISPR)
6	1	433.98 kHz	40.010 dBµV	34.703 dBµV	---	-17.166 dB	-12.474 dB	---	9.00 kHz (CISPR)

Plot 7-373. Line Conducted Plot with 802.11a UNII Band 3 (N)

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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: A3LSMG981JPN** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

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