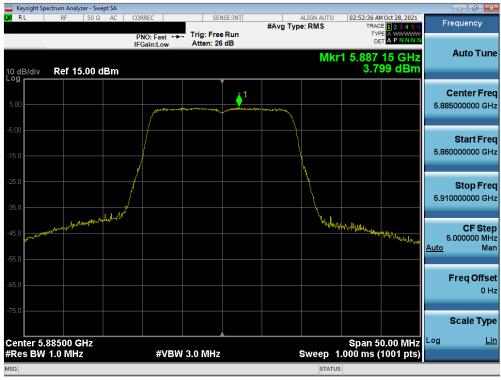


Plot 7-336. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 4) - Ch. 173)

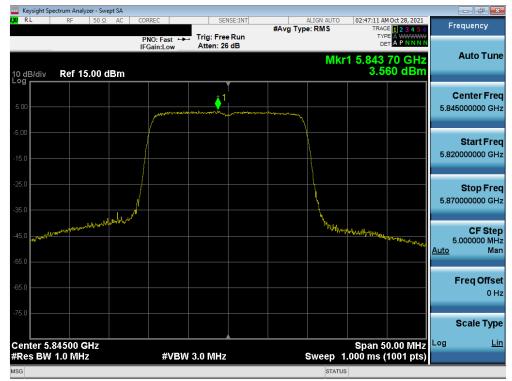


Plot 7-337. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 4) - Ch. 177)

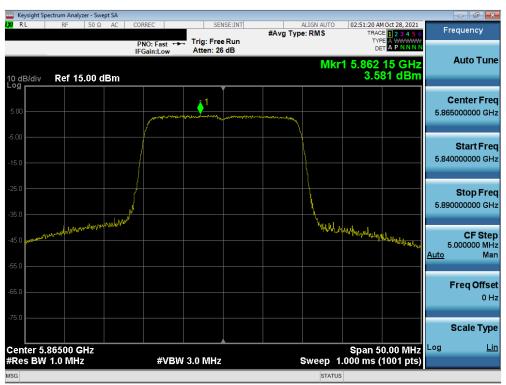
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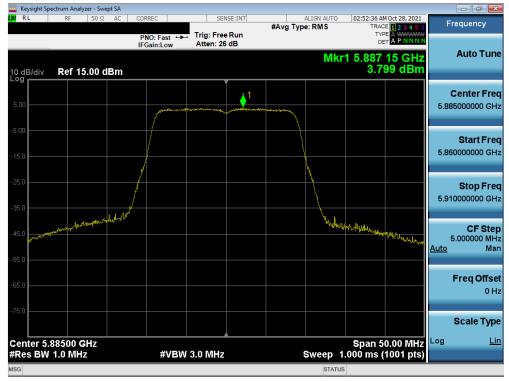
Plot 7-338. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3/4) - Ch. 169)



Plot 7-339. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 4) - Ch. 173)

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Plot 7-340. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 4) - Ch. 177)



Plot 7-341. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3/4) - Ch. 167)

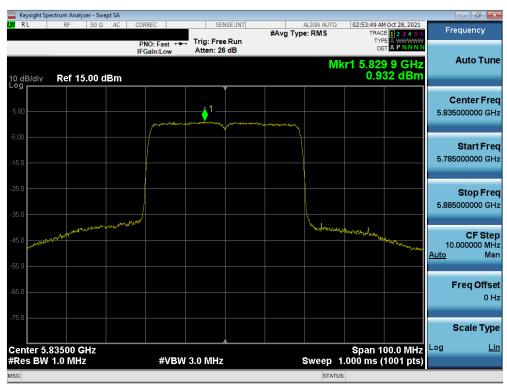
FCC ID: A3LSMS908JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-342. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 4) - Ch. 175)



Plot 7-343. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3/4) - Ch. 167)

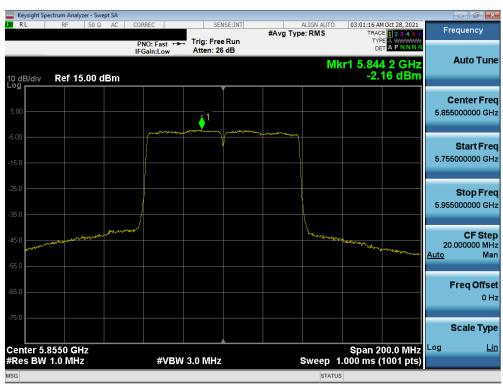
FCC ID: A3LSMS908JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-344. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 4) - Ch. 175)



Plot 7-345. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3/4) - Ch. 171)

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Plot 7-346. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3/4) - Ch. 171)



Plot 7-347. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ac (UNII Band 3/4) - Ch. 163)

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Plot 7-348. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band 3/4) - Ch. 163)

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 N/A dBm for Antenna-1 and N/A dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

(N/A dBm + N/A dBm) = (N/A mW + N/A mW) = N/A mW = N/A dBm

Sample e.i.r.p Power Spectral Density Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO power density was calculated to be N/A dBm with directional gain of N/A dBi.

e.i.r.p. Power Spectral Density(dBm) = Power Spectral Density (dBm) + Ant gain (dBi)

N/A dBm + N/A dBi = N/A 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, 802.11ax (20MHz BW), 802.11n, 802.11 ax (40MHz BW), and 802.11ac, 802.11ax (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.

For transmitters operating in the 5.850 – 5.895 GHz band: all emissions at or above 5.895GHz shall not exceed an e.i.r.p. of -5dBm/MHz and shall decrease linearly up to an e.i.r.p. of -27dBm/MHz at or above 5.925GHz, and all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27dBm/MHz at 5.65 GHz increasing linearly to 10dBm/MHz at 5.7GHz and from 5.7GHz increasing linearly to a level of 15.6dMb/MHz at 5.72GHz, and from 5.72GHz increasing linearly to a level of 27dBm/MHz at 5.725GHz.

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 7-26 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-26. 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

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4. Detector = power average (RMS)

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- 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

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

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6. Trace was allowed to stabilize

Test Setup

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

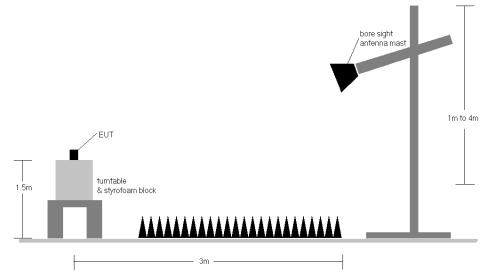


Figure 7-5. Test Instrument & Measurement Setup

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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 7-26.
- 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 7-26. 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 [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dBμV/m] Limit [dBμV/m]

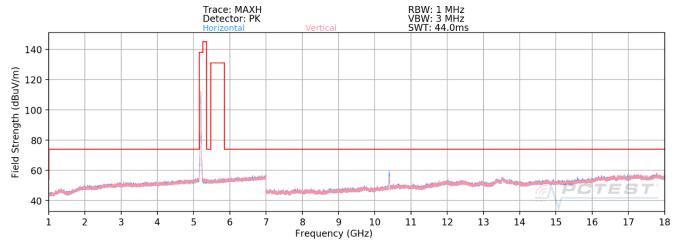
Radiated Band Edge Measurement Offset

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

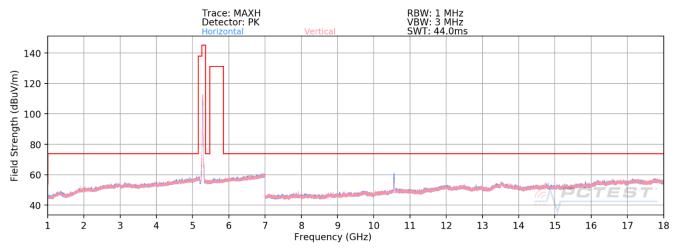
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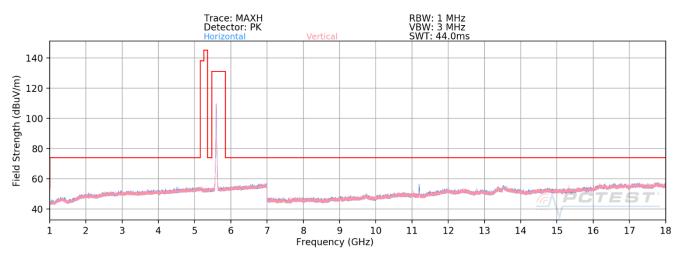
7.6.1 MIMO Radiated Spurious Emission Measurements



Plot 7-349. Radiated Spurious Plot above 1GHz MIMO (802.11a - U1 Ch. 40)



Plot 7-350. Radiated Spurious Plot above 1GHz MIMO (802.11a - U2A Ch. 56)



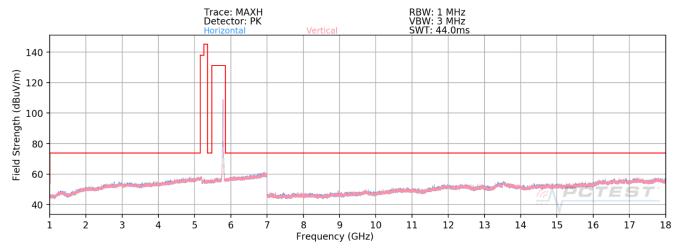
Plot 7-351. Radiated Spurious Plot above 1GHz MIMO (802.11a - U2C Ch. 120)

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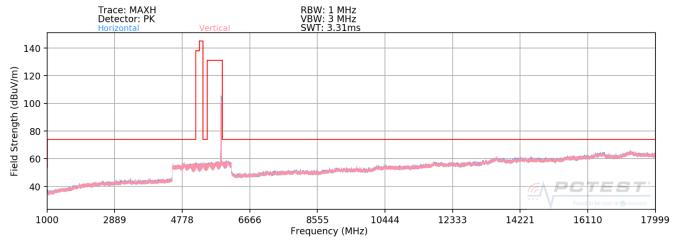
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Plot 7-352. Radiated Spurious Plot above 1GHz MIMO (802.11a - U3 Ch. 157)



Plot 7-353. Radiated Spurious Plot above 1GHz MIMO (802.11a - U4 Ch. 173)

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MIMO 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	Н	105	39	-58.42	15.17	0.00	63.75	68.20	-4.45
*	15540.00	Average	Н	246	47	-83.94	20.94	0.00	44.00	53.98	-9.98
*	15540.00	Peak	Н	246	47	-70.64	20.94	0.00	57.30	73.98	-16.68
*	20720.00	Average	Н	-	-	-80.14	-4.66	-9.54	12.65	53.98	-41.33
*	20720.00	Peak	Н	-	-	-70.15	-4.66	-9.54	22.64	73.98	-51.34
	25900.00	Peak	Н	-	-	-69.19	-3.85	-9.54	24.42	68.20	-43.78

Table 7-27. Radiated Measurements MIMO

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11a

6Mbps

1 & 3 Meters

5200MHz

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	Н	101	39	-59.95	15.42	0.00	62.47	68.20	-5.73
*	15600.00	Average	Н	230	32	-82.91	20.71	0.00	44.80	53.98	-9.18
*	15600.00	Peak	Н	230	32	-70.21	20.71	0.00	57.50	73.98	-16.48
*	20800.00	Average	Н	-	-	-80.22	-4.65	-9.54	12.59	53.98	-41.39
*	20800.00	Peak	Н	-	-	-70.34	-4.65	-9.54	22.47	73.98	-51.51
	26000.00	Peak	Н	-	-	-70.07	-3.88	-9.54	23.51	68.20	-44.69

Table 7-28. Radiated Measurements MIMO

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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	Н	101	42	-58.62	16.41	0.00	64.79	68.20	-3.41
*	15720.00	Average	Н	254	43	-83.44	20.69	0.00	44.25	53.98	-9.73
*	15720.00	Peak	Н	254	43	-70.05	20.69	0.00	57.64	73.98	-16.34
*	20960.00	Average	Н	-	-	-80.93	-4.44	-9.54	12.09	53.98	-41.89
*	20960.00	Peak	Н	-	-	-70.94	-4.44	-9.54	22.08	73.98	-51.90
	26200.00	Peak	Н	-	-	-70.64	-3.90	-9.54	22.92	68.20	-45.28

Table 7-29. Radiated Measurements MIMO

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11a

6Mbps

1 & 3 Meters

5260MHz

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	I	101	39	-59.20	16.61	0.00	64.41	68.20	-3.79
*	15780.00	Average	Н	245	44	-84.72	20.75	0.00	43.03	53.98	-10.95
*	15780.00	Peak	Н	245	44	-72.19	20.75	0.00	55.56	73.98	-18.42
*	21040.00	Average	Н	-	-	-80.47	-4.26	-9.54	12.73	53.98	-41.25
*	21040.00	Peak	Н	-	-	-71.23	-4.26	-9.54	21.97	73.98	-52.01
	26300.00	Peak	Н	-	-	-69.94	-3.69	-9.54	23.82	68.20	-44.38

Table 7-30. Radiated Measurements MIMO

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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	Н	105	48	-58.70	16.45	0.00	64.75	68.20	-3.45
*	15840.00	Average	П	250	49	-82.86	20.54	0.00	44.68	53.98	-9.30
*	15840.00	Peak	Н	250	49	-68.68	20.54	0.00	58.86	73.98	-15.12
*	21120.00	Average	Н	-	-	-80.10	-4.12	-9.54	13.24	53.98	-40.74
*	21120.00	Peak	Н	-	-	-70.49	-4.12	-9.54	22.85	73.98	-51.13
	26400.00	Peak	Н	-	-	-68.67	-3.57	-9.54	25.22	68.20	-42.98

Table 7-31. Radiated Measurements MIMO

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11a

6Mbps

1 & 3 Meters

5320MHz

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	Н	105	44	-73.44	16.53	0.00	50.09	53.98	-3.89
*	10640.00	Peak	I	105	44	-60.21	16.53	0.00	63.32	73.98	-10.66
*	15960.00	Average	Н	-	-	-86.65	20.96	0.00	41.31	53.98	-12.67
*	15960.00	Peak	Н	-	-	-75.92	20.96	0.00	52.04	73.98	-21.94
*	21280.00	Average	Н	-	-	-79.87	-3.93	-9.54	13.65	53.98	-40.33
*	21280.00	Peak	Н	-	-	-69.24	-3.93	-9.54	24.28	73.98	-49.70
	26600.00	Peak	Н	-	-	-70.37	-3.36	-9.54	23.73	68.20	-44.47

Table 7-32. Radiated Measurements MIMO

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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	Н	101	37	-74.77	16.30	0.00	48.53	53.98	-5.45
*	11000.00	Peak	Н	101	37	-62.72	16.30	0.00	60.58	73.98	-13.40
	16500.00	Peak	Н	291	50	-70.62	21.98	0.00	58.36	68.20	-9.84
	22000.00	Peak	Н	-	-	-69.55	-4.04	-9.54	23.87	68.20	-44.33
	27500.00	Peak	Н	-	-	-68.45	-3.28	-9.54	25.73	68.20	-42.47

Table 7-33. Radiated Measurements MIMO

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5600MHz

Channel: 120

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11200.00	Average	I	262	25	-77.29	16.25	0.00	45.96	53.98	-8.02
*	11200.00	Peak	Н	262	25	-65.80	16.25	0.00	57.45	73.98	-16.53
	16800.00	Peak	Н	-	-	-73.76	22.73	0.00	55.97	68.20	-12.23
*	22400.00	Average	Н	-	-	-80.00	-4.33	-9.54	13.12	53.98	-40.85
*	22400.00	Peak	Н	-	-	-69.90	-4.33	-9.54	23.22	73.98	-50.75
	28000.00	Peak	Н	-	-	-70.77	-2.48	-9.54	24.21	68.20	-43.99

Table 7-34. Radiated Measurements MIMO

FCC ID: A3LSMS908JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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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	Н	101	42	-79.41	16.90	0.00	44.49	53.98	-9.49
*	11440.00	Peak	Н	101	42	-68.17	16.90	0.00	55.73	73.98	-18.25
	17160.00	Peak	Н	-	-	-73.45	22.09	0.00	55.64	68.20	-12.56
*	22880.00	Average	Н	-	-	-79.90	-4.43	-9.54	13.13	53.98	-40.85
*	22880.00	Peak	Н	-	-	-71.02	-4.43	-9.54	22.01	73.98	-51.97
	28600.00	Peak	Н	-	-	-70.70	-2.86	-9.54	23.90	68.20	-44.30

Table 7-35. Radiated Measurements MIMO

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11a

6Mbps

1 & 3 Meters

5745MHz

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	Η	258	12	-83.54	16.64	0.00	40.10	53.98	-13.88
*	11490.00	Peak	I	258	12	-71.97	16.64	0.00	51.67	73.98	-22.31
	17235.00	Peak	Н	-	-	-74.29	22.84	0.00	55.55	68.20	-12.65
*	22980.00	Average	Н	•	-	-79.23	-4.50	-9.54	13.73	53.98	-40.25
*	22980.00	Peak	Η	•	-	-68.50	-4.50	-9.54	24.46	73.98	-49.52
	28725.00	Peak	Ι	-	•	-69.55	-2.39	-9.54	25.52	69.20	-43.68

Table 7-36. Radiated Measurements MIMO

FCC ID: A3LSMS908JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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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	Н	101	43	-81.41	16.85	0.00	42.44	53.98	-11.54
*	11570.00	Peak	Н	101	43	-69.05	16.85	0.00	54.80	73.98	-19.18
	17355.00	Peak	Н	-	-	-73.56	22.26	0.00	55.70	68.20	-12.50
	23140.00	Peak	Н	-	-	-69.79	-4.58	-9.54	23.08	68.20	-45.12
	28925.00	Peak	Н	-	-	-69.57	-2.64	-9.54	25.25	68.20	-42.95

Table 7-37. Radiated Measurements MIMO

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	Н	254	30	-82.23	17.55	0.00	42.32	53.98	-11.66
*	11650.00	Peak	П	254	30	-70.55	17.55	0.00	54.00	73.98	-19.98
	17475.00	Peak	Н	-	-	-72.73	22.39	0.00	56.66	68.20	-11.54
	23300.00	Peak	Н	-	-	-69.43	-4.41	-9.54	23.61	68.20	-44.59
	29125.00	Peak	Н	-	-	-70.50	-3.19	-9.54	23.77	68.20	-44.43

Table 7-38. Radiated Measurements MIMO

FCC ID: A3LSMS908JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Worst Case Mode: 802.11a Worst Case Transfer Rate: 6Mbps Distance of Measurements: 1 & 3 Meters Operating Frequency: 5845 MHz

169 Channel:

	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]
*	11690.00	Average	٧	202	37	-85.10	22.12	0.00	44.02	53.98	-9.96
*	11690.00	Peak	V	202	37	-73.89	22.12	0.00	55.23	73.98	-18.75
	17535.00	Peak	V	-	-	-78.67	31.35	0.00	59.68	62.80	-3.12
	23380.00	Peak	V	-	-	-57.32	4.67	-9.54	44.80	62.80	-18.00
	29225.00	Peak	V	-	-	-58.29	6.67	-9.54	45.84	62.80	-16.96
	35070.00	Peak	V	-	-	-58.02	8.57	-9.54	48.00	62.80	-14.80

Table 7-39. Radiated Measurements MIMO

Worst Case Mode: 802.11a Worst Case Transfer Rate: 6Mbps Distance of Measurements: 1 & 3 Meters 5865 MHz Operating Frequency:

Channel:

173

	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]
*	11730.00	Average	V	118	29	-84.24	21.84	0.00	44.60	53.98	-9.38
*	11730.00	Peak	V	118	29	-72.83	21.84	0.00	56.01	73.98	-17.97
	17595.00	Peak	V	-	-	-78.20	30.82	0.00	59.62	62.80	-3.18
	23460.00	Peak	V	-	-	-58.38	4.63	-9.54	43.70	62.80	-19.10
	29325.00	Peak	V	-	-	-57.15	6.99	-9.54	47.30	62.80	-15.50
	35190.00	Peak	V	=	-	-56.80	8.73	-9.54	49.38	62.80	-13.42

Table 7-40. Radiated Measurements MIMO

FCC ID: A3LSMS908JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5885 MHz

Channel: 177

	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]
*	11770.00	Average	V	106	30	-85.70	22.55	0.00	43.85	53.98	-10.13
*	11770.00	Peak	٧	106	30	-74.05	22.55	0.00	55.50	73.98	-18.48
	17655.00	Peak	٧	-	-	-78.78	31.48	0.00	59.70	62.80	-3.10
	23540.00	Peak	V	=	-	-58.11	4.72	-9.54	44.06	62.80	-18.74
	29425.00	Peak	V	-	-	-57.86	7.00	-9.54	46.60	62.80	-16.20
	35310.00	Peak	V	-	-	-57.27	8.79	-9.54	48.98	62.80	-13.82

Table 7-41. Radiated Measurements MIMO

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5240MHz

Channel: 48

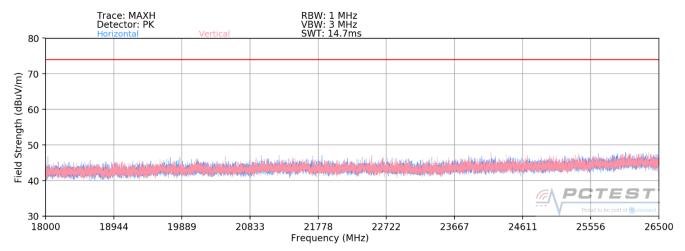
	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10480.00	Peak	Н	286	82	-65.37	16.41	0.00	58.04	68.20	-10.16
*	15720.00	Average	Н	-	-	-85.30	20.69	0.00	42.39	53.98	-11.59
*	15720.00	Peak	Н	-	-	-72.61	20.69	0.00	55.08	73.98	-18.90
*	20960.00	Average	Н	-	-	-62.14	-7.45	-9.54	27.87	53.98	-26.11
*	20960.00	Peak	Н	-	-	-50.16	-7.45	-9.54	39.85	73.98	-34.13
	26200.00	Peak	Н	-	-	-51.50	-6.25	-9.54	39.71	68.20	-28.49

Table 7-42. Radiated Measurements MIMO with WCP

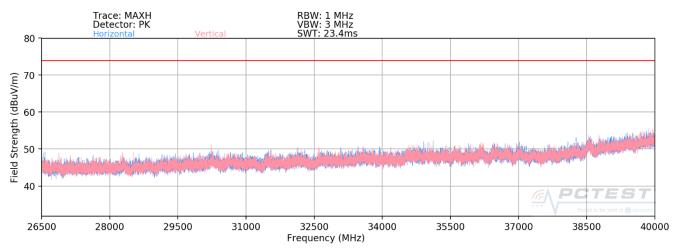
FCC ID: A3LSMS908JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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MIMO Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-354. Radiated Spurious Plot above 18GHz - 26.5GHz MIMO (802.11a)



Plot 7-355. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11a)

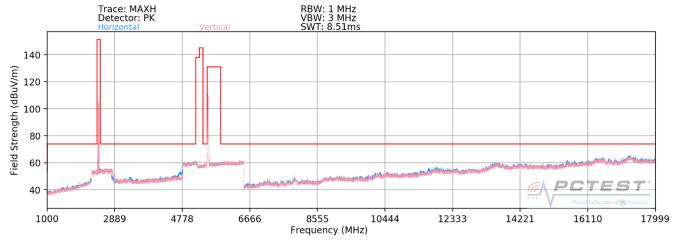
FCC ID: A3LSMS908JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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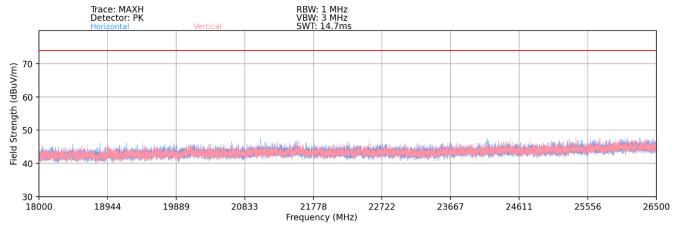
7.6.2 Simultaneous Tx Radiated Spurious Emissions Measurements §15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Description	2.4 GHz Emission	5 GHz Emission
Antenna	1,2	1,2
Channel	6	100
Operating Frequency (MHz)	2437	5500
Data Rate (Mbps)	1	6
Mode	802.11b	802.11a

Table 7-43. Simultaneous Transmission Config-1



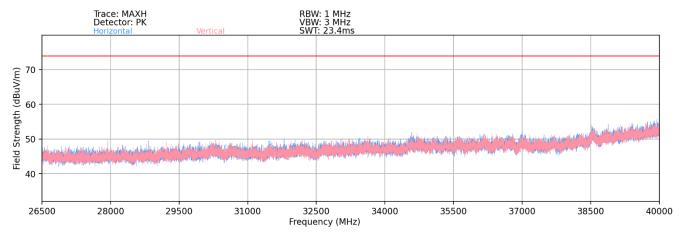
Plot 7-356. Radiated Spurious Plot above 1GHz (MIMO 2.4GHz / MIMO 5GHz)



Plot 7-357. Radiated Spurious Plot 18GHz - 26.5GHz (MIMO 2.4GHz / MIMO 5GHz)

FCC ID: A3LSMS908JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-358. Radiated Spurious Plot above 26.5GHz (MIMO 2.4GHz / MIMO 5GHz)

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	3689.00	Average	Н	-	-	-75.83	10.80	41.97	53.98	-12.01
*	3689.00	Peak	Н	-	-	-63.71	10.80	54.09	73.98	-19.89
	6752.00	Peak	Н	-	-	-64.87	16.17	58.30	68.20	-9.90
	8563.00	Peak	Н	-	-	-67.82	10.08	49.26	68.20	-18.94
*	11626.00	Average	Н	-	-	-79.75	13.44	40.69	53.98	-13.29
*	11626.00	Peak	Н	-	-	-67.65	13.44	52.79	73.98	-21.19

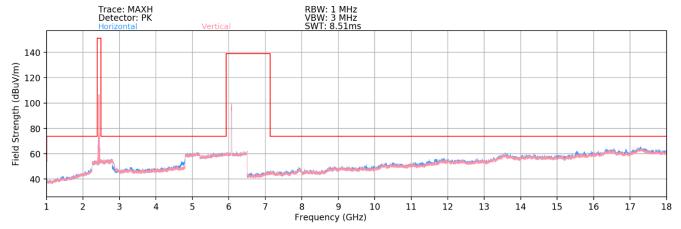
Table 7-44. Radiated Measurements (MIMO 2.4GHz / MIMO 5GHz)

FCC ID: A3LSMS908JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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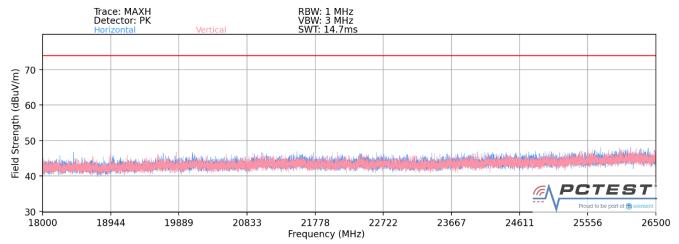


Description	2.4 GHz Emission	6 GHz Emission
Antenna	1,2	1,2
Channel	6	25
Operating Frequency (MHz)	2437	6075
Data Rate (Mbps)	1	6
Mode	802.11b	802.11a

Table 7-45. Simultaneous Transmission Config-2



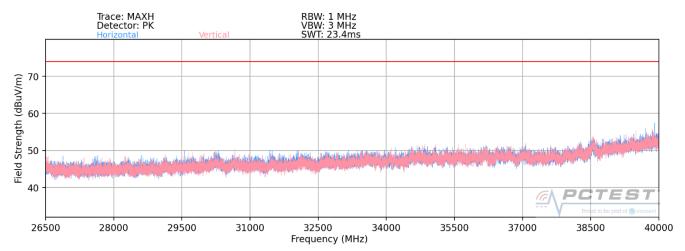
Plot 7-359. Radiated Spurious Plot above 1GHz (MIMO 2.4GHz / MIMO 6GHz)



Plot 7-360. Radiated Spurious Plot 18GHz - 26.5GHz (MIMO 2.4GHz / MIMO 6GHz)

FCC ID: A3LSMS908JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-361. Radiated Spurious Plot above 26.5GHz (MIMO 2.4GHz / MIMO 6GHz)

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	1201.00	Average	Н	293	341	-70.56	2.91	39.35	53.98	-14.63
*	1201.00	Peak	Н	293	341	-61.88	2.91	48.03	73.98	-25.95
*	4839.00	Average	Н	-	-	-78.05	12.45	41.40	53.98	-12.58
*	4839.00	Peak	Н	-	-	-62.86	12.45	56.59	73.98	-17.39
	9713.00	Peak	Н	-	-	-67.25	10.62	50.37	68.20	-17.83
	16989.00	Peak	Н	-	-	-65.72	17.24	58.52	68.20	-9.68

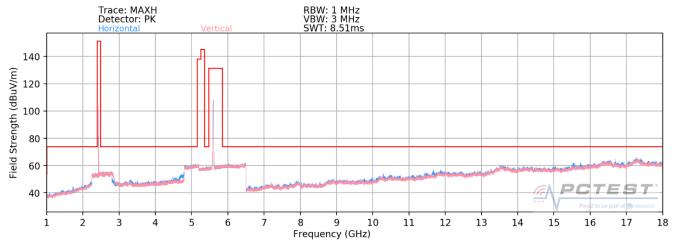
Table 7-46. Radiated Measurements (MIMO 2.4GHz / MIMO 6GHz)

FCC ID: A3LSMS908JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Description	Bluetooth Emission	5 GHz Emission
Antenna	1,2	1,2
Channel	39	120
Operating Frequency (MHz)	2441	5600
Data Rate (Mbps)	1Mbps	6
Mode	ePA	802.11a

Table 7-47. Dual Band Simultaneous Transmission



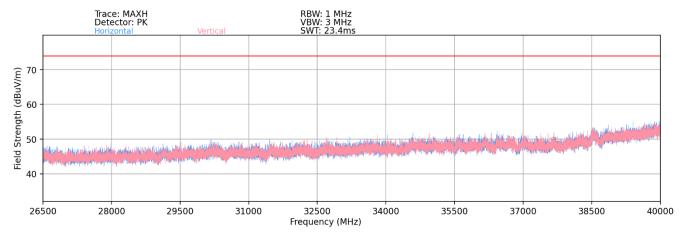
Plot 7-362. Radiated Spurious Plot above 1GHz (DUAL BT / MIMO 5GHz)



Plot 7-363. Radiated Spurious Plot 18GHz - 26.5GHz (DUAL BT / MIMO 5GHz)

FCC ID: A3LSMS908JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-364. Radiated Spurious Plot above 26.5GHz (DUAL BT / MIMO 5GHz)

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	3677.00	Average	Н	-	-	-76.11	10.92	41.81	53.98	-12.17
*	3677.00	Peak	Н	-	-	-64.31	10.92	53.61	73.98	-20.37
	6736.00	Peak	Н	-	-	-65.46	16.01	57.55	68.20	-10.65
	8559.00	Peak	Н	-	-	-66.33	9.94	50.61	68.20	-17.59
*	11618.00	Average	Н	-	-	-82.69	13.40	37.71	53.98	-16.27
*	11618.00	Peak	Н	-	-	-69.34	13.40	51.06	73.98	-22.92

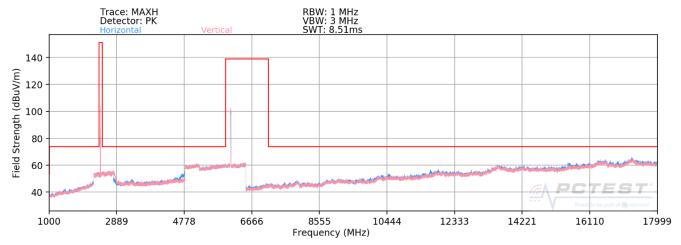
Table 7-48. Radiated Measurements (DUAL BT / MIMO 5GHz)

FCC ID: A3LSMS908JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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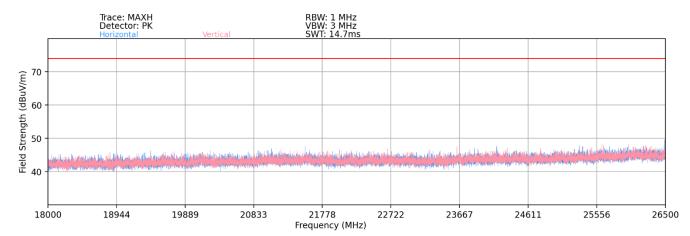


Description	Bluetooth Emission	6 GHz Emission
Antenna	1,2	1,2
Channel	39	117
Operating Frequency (MHz)	2441	6535
Data Rate (Mbps)	1Mbps	6Mbps
Mode	ePA	а

Table 7-49. Dual Band Simultaneous Transmission



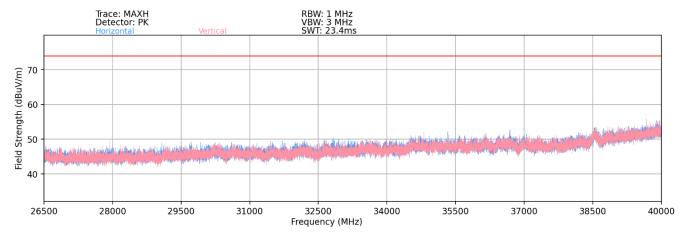
Plot 7-365. Radiated Spurious Plot above 1GHz (DUAL BT / MIMO 6GHz)



Plot 7-366. Radiated Spurious Plot 18GHz - 26.5GHz (DUAL BT / MIMO 6GHz)

FCC ID: A3LSMS908JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-367. Radiated Spurious Plot above 26.5GHz (DUAL BT / MIMO 6GHz)

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	1193.00	Average	Н	-	-	-75.07	2.89	34.82	53.98	-19.16
*	1193.00	Peak	Н	-	-	-62.64	2.89	47.25	73.98	-26.73
*	4827.00	Average	Н	-	-	-75.57	12.50	43.93	53.98	-10.05
*	4827.00	Peak	Н	-	-	-65.79	12.50	53.71	73.98	-20.27
*	8461.00	Average	Н	-	-	-81.13	8.45	34.32	53.98	-19.66
*	8461.00	Peak	Н	-	-	-68.29	8.45	47.16	73.98	-26.82
*	13343.00	Average	Н	-	-	-82.47	15.44	39.97	53.98	-14.01
*	13343.00	Peak	Н	-	-	-69.52	15.44	52.92	73.98	-21.06

Table 7-50. Radiated Measurements (DUAL BT / MIMO 6GHz)

FCC ID: A3LSMS908JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.6.3 MIMO Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

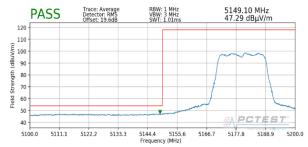
802.11n

MCS0

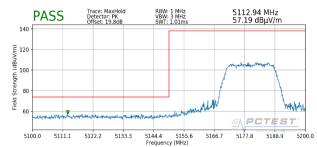
3 Meters

5180MHz

36



Plot 7-368. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)



Plot 7-369. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

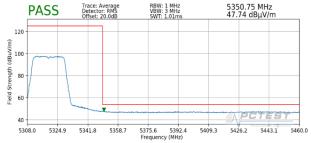
802.11n

MCS0

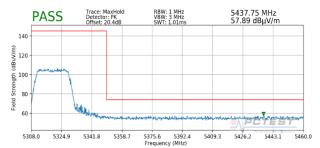
3 Meters

5320MHz

64



Plot 7-370. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



Plot 7-371. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

FCC ID: A3LSMS908JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

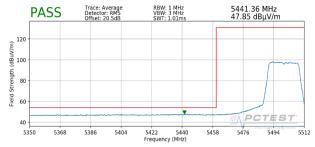
802.11n

MCS0

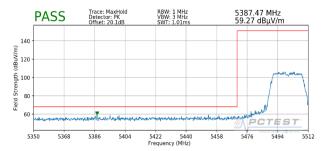
3 Meters

5500MHz

100



Plot 7-372. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-373. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

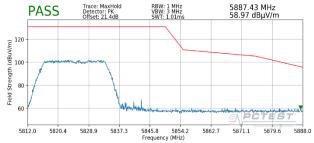
802.11n

MCS0

3 Meters

5825MHz

165



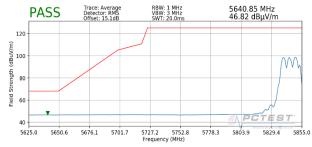
Plot 7-374. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

FCC ID: A3LSMS908JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

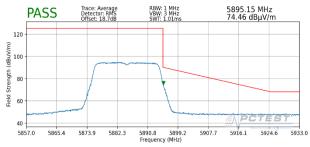
802.11a
6Mbps
3 Meters
5845MHz
169



Plot 7-375. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 4)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ac
MCS0
3 Meters
5885MHz
177



Plot 7-376. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4)

FCC ID: A3LSMS908JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.6.4 MIMO Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

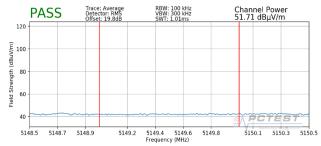
802.11n

MCS0

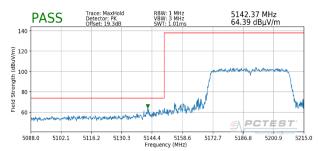
3 Meters

5190MHz

38



Plot 7-377. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)



Plot 7-378. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

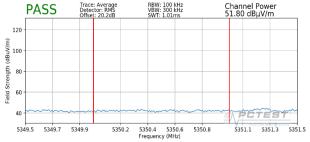
802.11n

MCS0

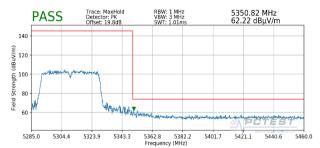
3 Meters

5310MHz

62



Plot 7-379. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



Plot 7-380. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

FCC ID: A3LSMS908JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:
Operating Frequency:

Channel:

802.11n

MCS0

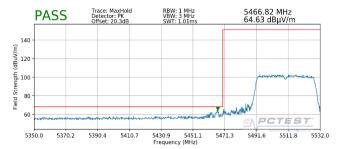
3 Meters

5510MHz

102



Plot 7-381. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-382. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

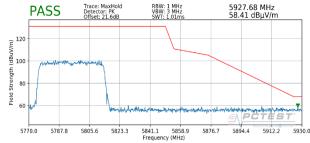
802.11n

MCS0

3 Meters

5795MHz

159



Plot 7-383. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

FCC ID: A3LSMS908JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

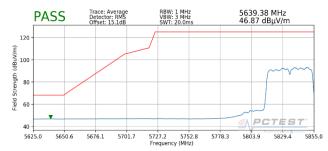
802.11ax

MCS0

3 Meters

5835MHz

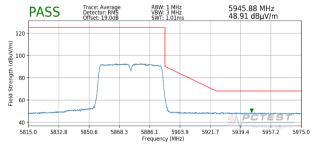
167



Plot 7-384. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 4)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ac
MCS0
3 Meters
5875MHz
175



Plot 7-385. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4)

FCC ID: A3LSMS908JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.6.5 MIMO Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ac
MCS0
3 Meters
5210MHz
42



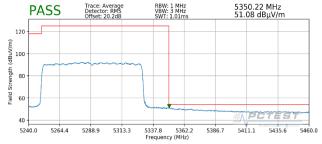
Plot 7-386. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)



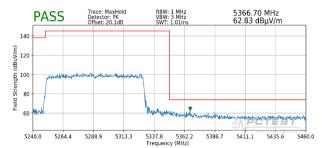
Plot 7-387. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ac
MCS0
3 Meters
5290MHz
58



Plot 7-388. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



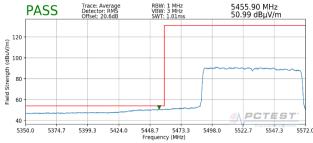
Plot 7-389. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

FCC ID: A3LSMS908JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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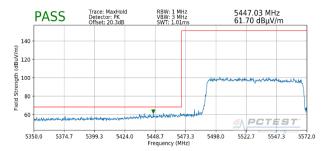


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ac
MCS0
3 Meters
5530MHz
106



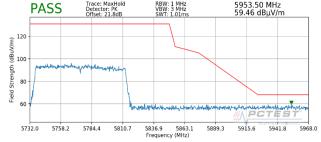
Plot 7-390. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-391. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ac
MCS0
3 Meters
5775MHz
155



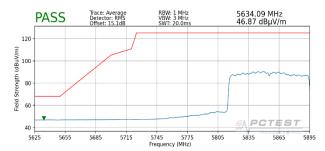
Plot 7-392. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

FCC ID: A3LSMS908JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

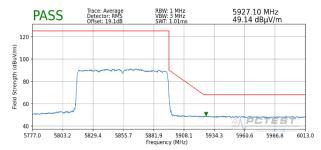
802.11ax
MCS0
3 Meters
5855MHz
171



Plot 7-393. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 4)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
3 Meters
5855MHz
171



Plot 7-394. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4)

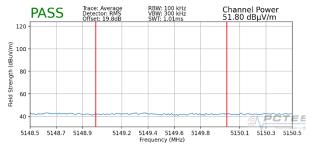
FCC ID: A3LSMS908JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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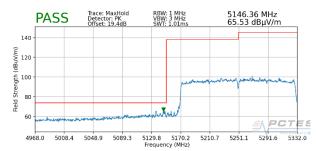
7.6.6 MIMO Radiated Band Edge Measurements (160MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
3 Meters
5250MHz
50



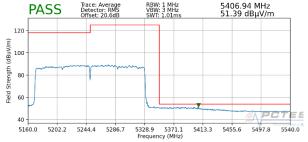
Plot 7-395. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)



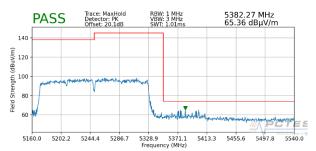
Plot 7-396. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ac
MCS0
3 Meters
5250MHz
50



Plot 7-397. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



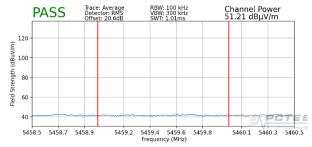
Plot 7-398. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

FCC ID: A3LSMS908JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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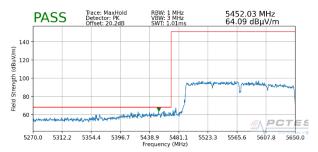


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
3 Meters
5570MHz
117



Plot 7-399. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)

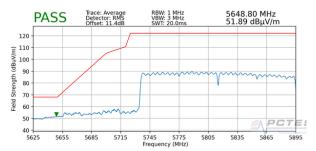


Plot 7-400. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

FCC ID: A3LSMS908JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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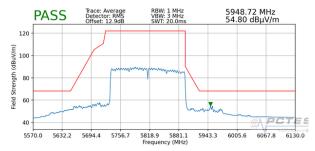


Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 Distance of Measurements: 3 Meters Operating Frequency: 5815MHz Channel: 163



Plot 7-401. Radiated Lower Band Edge Plot MIMO (Average -UNII Band 4)

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 Distance of Measurements: 3 Meters 5815MHz Operating Frequency: Channel: 163



Plot 7-402. Radiated Upper Band Edge Plot MIMO (Average -UNII Band 4)

FCC ID: A3LSMS908JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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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 7-51 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 7-51. 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
- RBW = 120kHz (for emissions from 30MHz 1GHz)
- 3. Detector = quasi-peak
- 4. Sweep time = auto couple
- 5. Trace mode = max hold

assembly of contents thereof, please contact INFO@PCTEST.COM

6. Trace was allowed to stabilize

FCC ID: A3LSMS908JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Test Setup

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

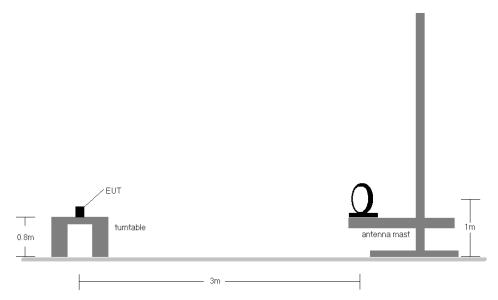


Figure 7-6. Radiated Test Setup < 30MHz

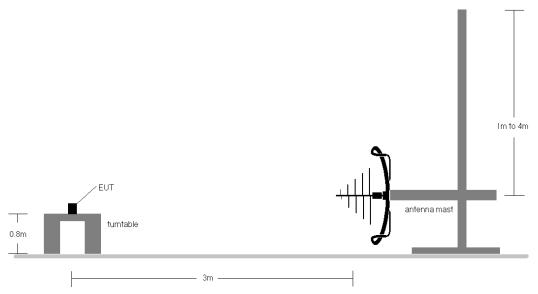


Figure 7-7. Radiated Test Setup < 1GHz

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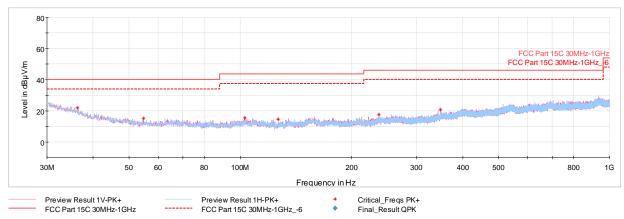
Test Notes

- 1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-51.
- 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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MIMO Radiated Spurious Emissions Measurements (Below 1GHz) §15.209; RSS-Gen [8.9]

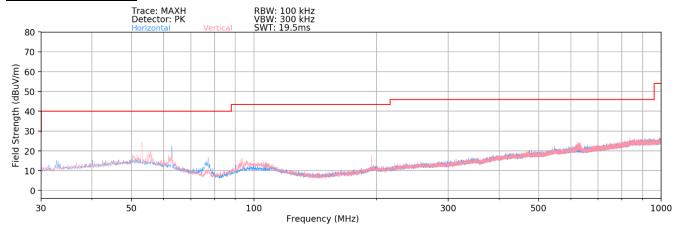


Plot 7-403. Radiated Spurious Emissions below 1GHz MIMO (802.11a - U3 Ch. 157)

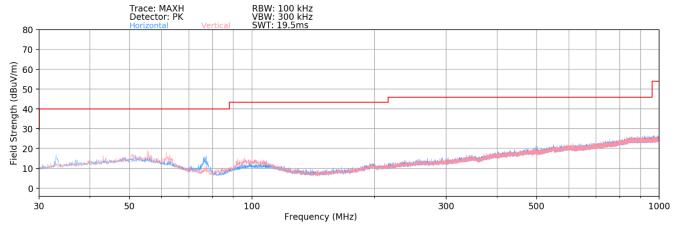
FCC ID: A3LSMS908JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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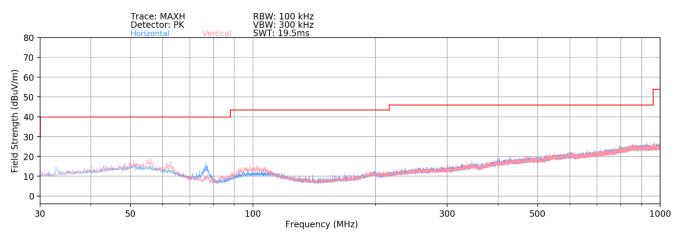
Simultaneous Tx Radiated Spurious Emissions Measurements (Below 1GHz) §15.209; RSS-Gen [8.9]



Plot 7-404. Radiated Spurious Plot below 1GHz (MIMO 2.4GHz / MIMO 5GHz)



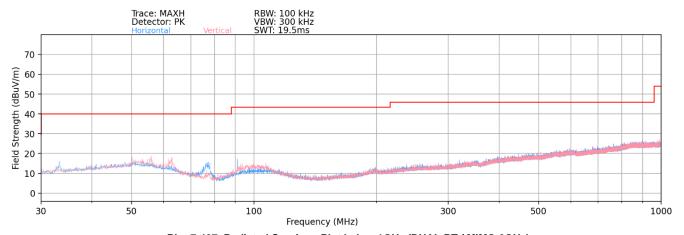
Plot 7-405. Radiated Spurious Plot below 1GHz (MIMO 2.4GHz / MIMO 6GHz)



Plot 7-406. Radiated Spurious Plot below 1GHz (DUAL BT / MIMO 5GHz)

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Plot 7-407. Radiated Spurious Plot below 1GHz (DUAL BT / MIMO 6GHz)

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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)	n Conducted Limit (dBμV)	
(IVITIZ)	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-52. Conducted Limits

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
- 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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^{*}Decreases with the logarithm of the frequency.



Test Setup

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

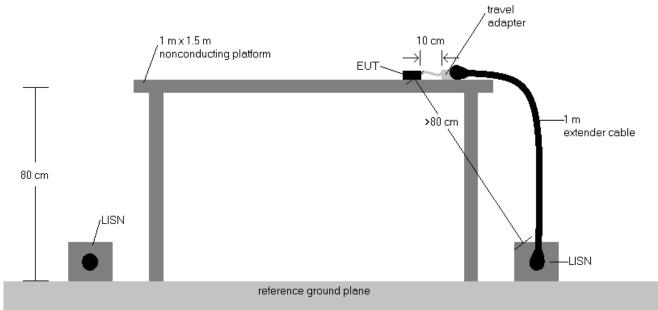


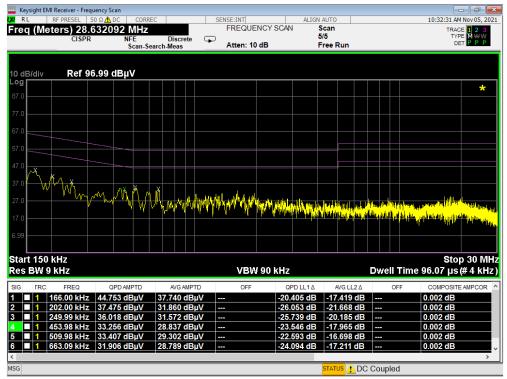
Figure 7-8. Test Instrument & Measurement Setup

Test Notes

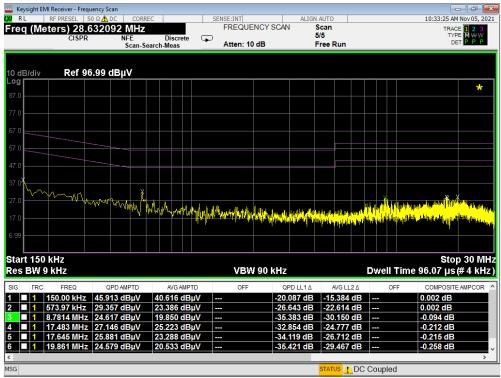
- 1. All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
- 2. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
- 3.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

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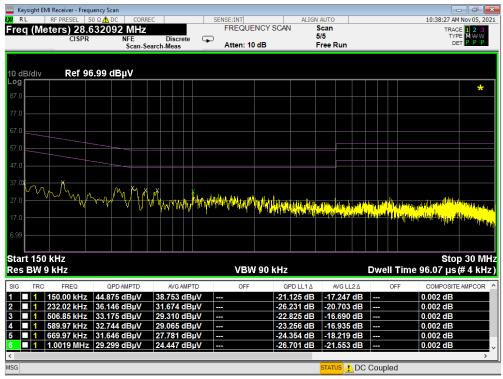
Plot 7-408. Line Conducted Plot with 802.11a UNII Band 1 (L1)



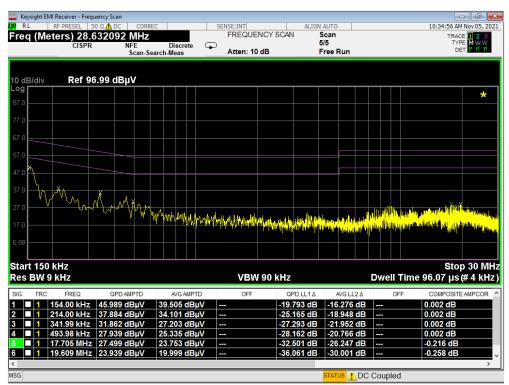
Plot 7-409. Line Conducted Plot with 802.11a UNII Band 1 (N)

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Plot 7-410. Line Conducted Plot with 802.11a UNII Band 2A (L1)



Plot 7-411. Line Conducted Plot with 802.11a UNII Band 2A (N)

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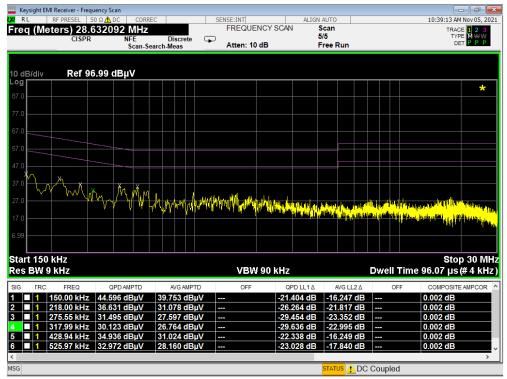
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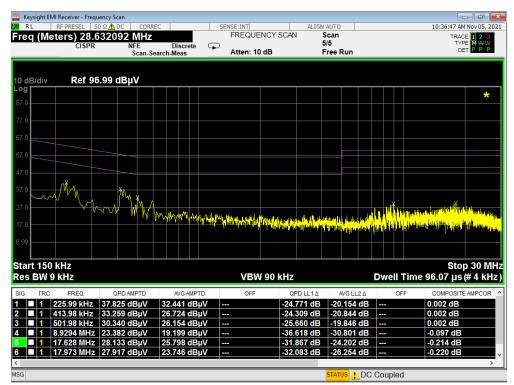
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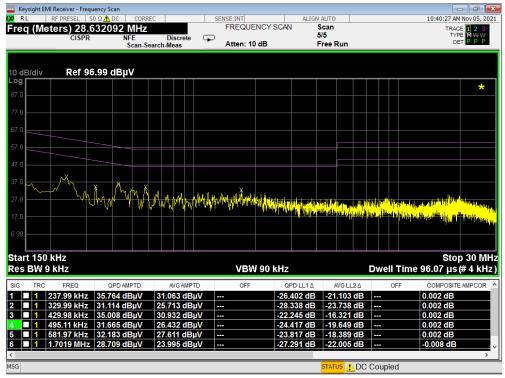
Plot 7-412. Line Conducted Plot with 802.11a UNII Band 2C (L1)



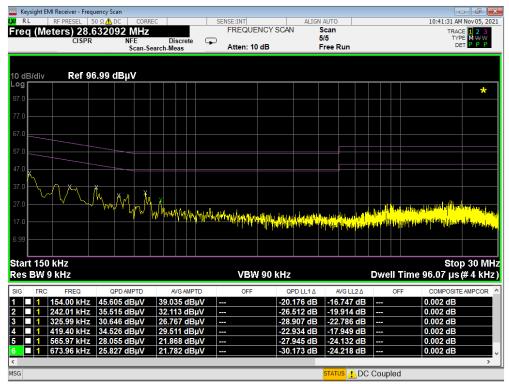
Plot 7-413. Line Conducted Plot with 802.11a UNII Band 2C (N)

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Plot 7-414. Line Conducted Plot with 802.11a UNII Band 3 (L1)

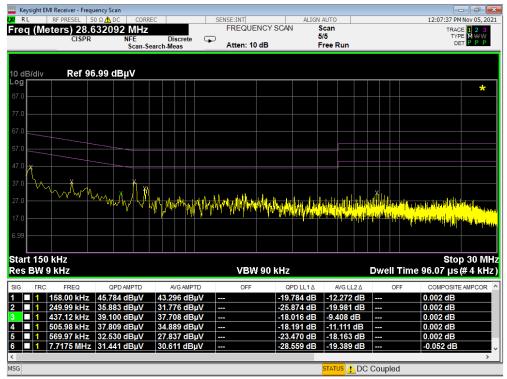


Plot 7-415. Line Conducted Plot with 802.11a UNII Band 3 (N)

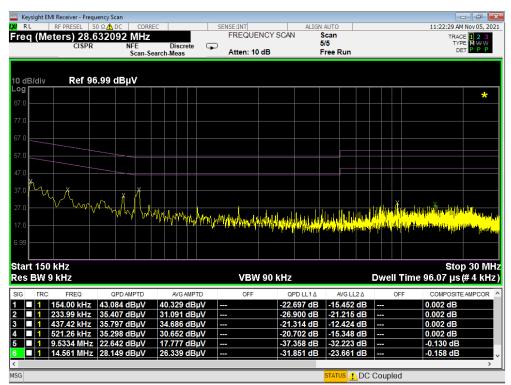
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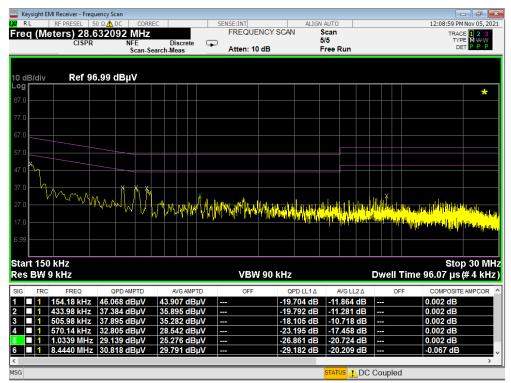
Plot 7-416. Line Conducted Plot with 802.11a UNII Band 1 (L1) - WCP



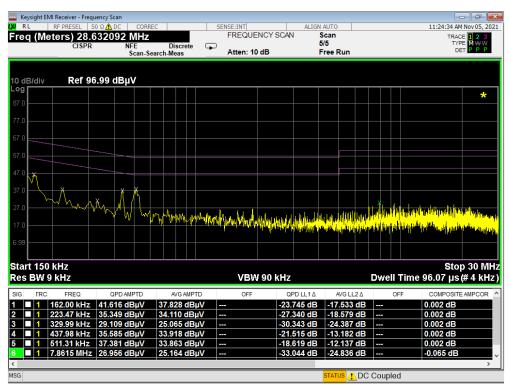
Plot 7-417. Line Conducted Plot with 802.11a UNII Band 1 (N) - WCP

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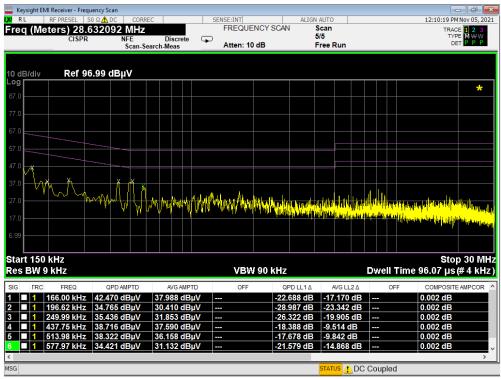
Plot 7-418. Line Conducted Plot with 802.11a UNII Band 2A (L1) - WCP



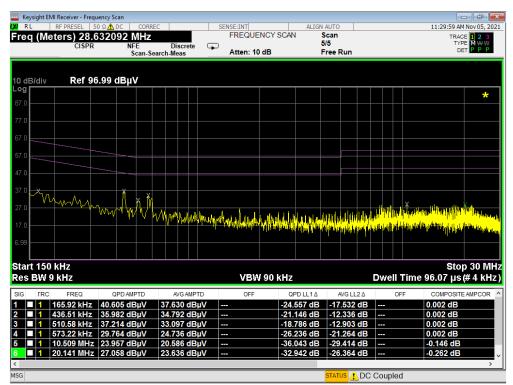
Plot 7-419. Line Conducted Plot with 802.11a UNII Band 2A (N) - WCP

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Plot 7-420. Line Conducted Plot with 802.11a UNII Band 2C (L1) - WCP



Plot 7-421. Line Conducted Plot with 802.11a UNII Band 2C (N) - WCP

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