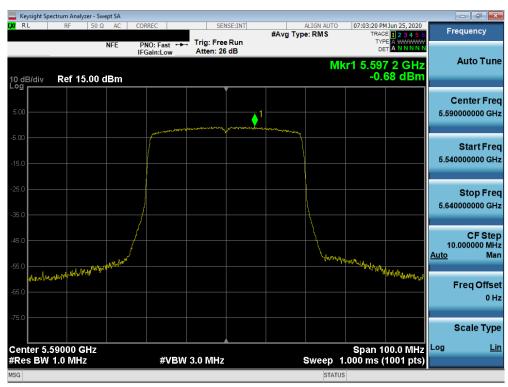


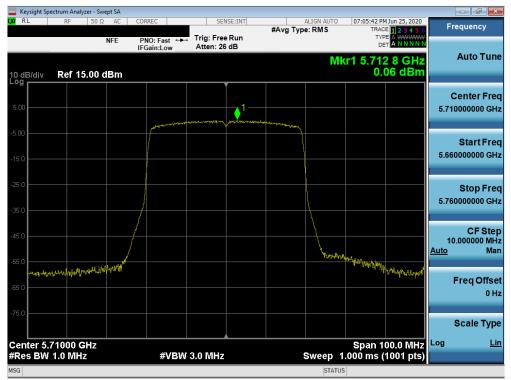
Plot 7-235. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax SU (UNII Band 2C) - Ch. 102)



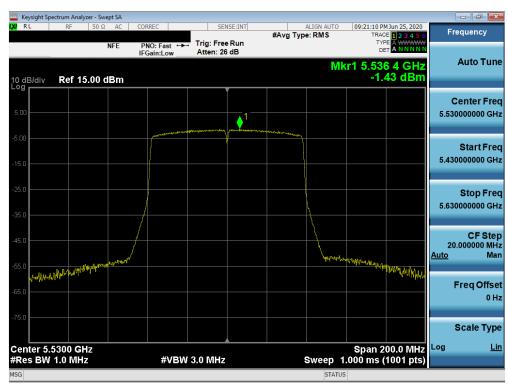
Plot 7-236. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax SU (UNII Band 2C) - Ch. 118)

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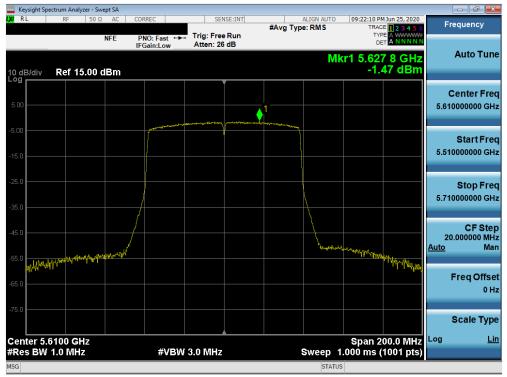
Plot 7-237. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax SU (UNII Band 2C) - Ch. 142)



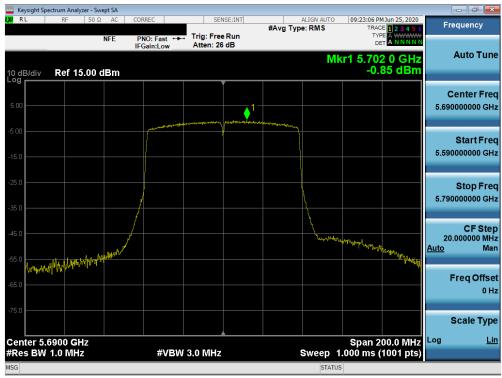
Plot 7-238. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 106)

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element:	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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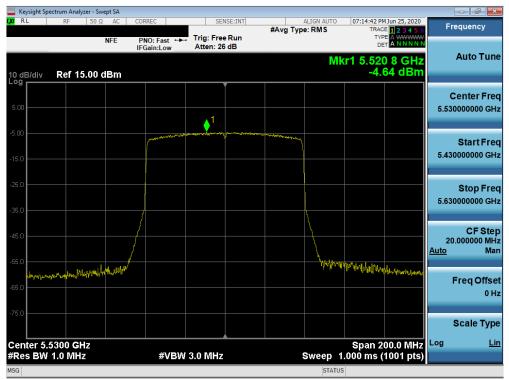
Plot 7-239. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)



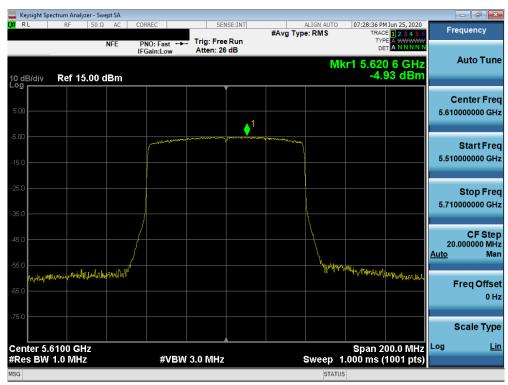
Plot 7-240. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ eleman:	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 153 of 231	
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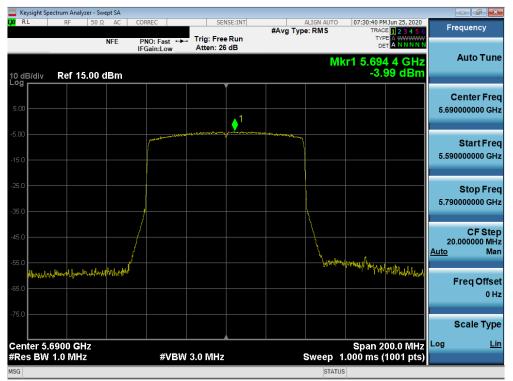
Plot 7-241. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax SU (UNII Band 2C) - Ch. 106)



Plot 7-242. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax SU (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ eleman:	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 154 of 231
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Plot 7-243. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax SU (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ eleman:	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 155 of 231
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	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]		Max Permissible Power Density [dBm/500kHz]	Margin [dB]
	5745	149	а	6	7.97	30.0	-22.03
	5785	157	а	6	7.71	30.0	-22.29
	5825	165	а	6	7.95	30.0	-22.05
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	7.95	30.0	-22.05
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	7.82	30.0	-22.18
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	8.23	30.0	-21.77
e	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	2.92	30.0	-27.08
Band	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	2.98	30.0	-27.02
ä	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	2.50	30.0	-27.50
	5755	151	n (40MHz)	13.5/15 (MCS0)	5.59	30.0	-24.41
	5795	159	n (40MHz)	13.5/15 (MCS0)	5.33	30.0	-24.67
	5755	151	ax (40MHz)	13.5/15 (MCS0)	0.11	30.0	-29.89
	5795	159	ax (40MHz)	13.5/15 (MCS0)	-0.19	30.0	-30.19
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-1.04	30.0	-31.04
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	-3.80	30.0	-33.80

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



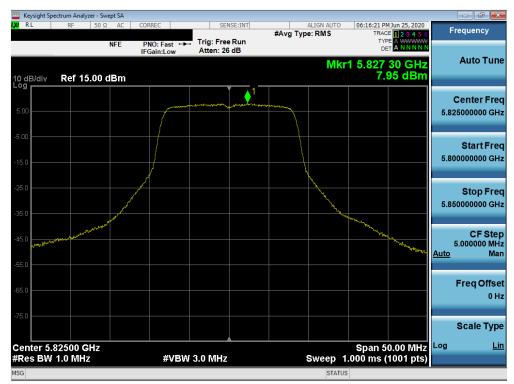
Plot 7-244. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) – Ch. 149)

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ eleman:	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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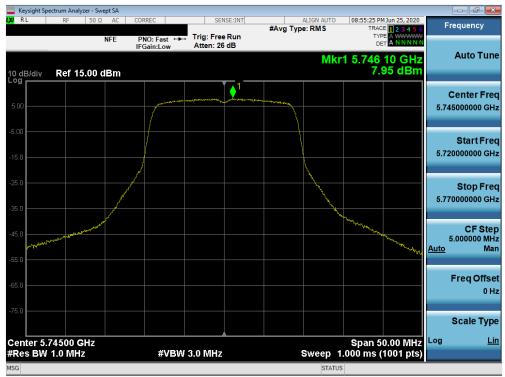
Plot 7-245. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) – Ch. 157)



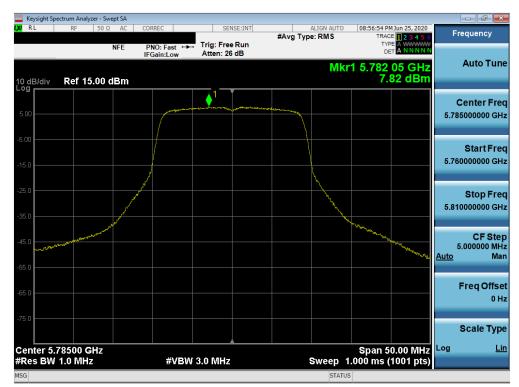
Plot 7-246. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) - Ch. 165)

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element:	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-247. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 149)



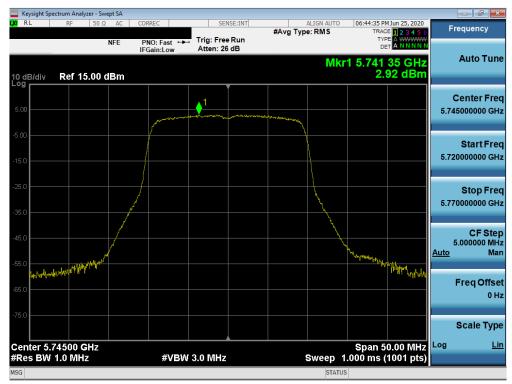
Plot 7-248. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)

FCC ID: A3LSMT978U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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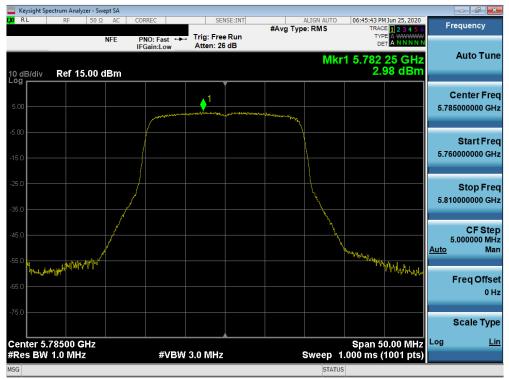
Plot 7-249. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 165)



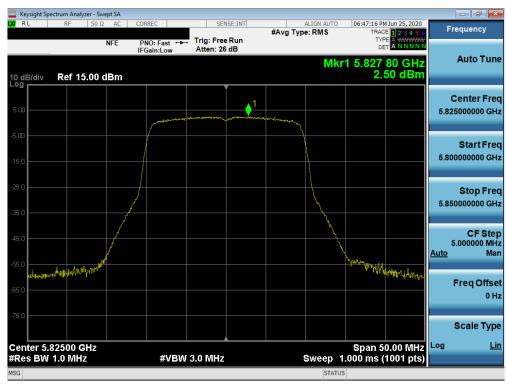
Plot 7-250. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax SU (UNII Band 3) - Ch. 149)

FCC ID: A3LSMT978U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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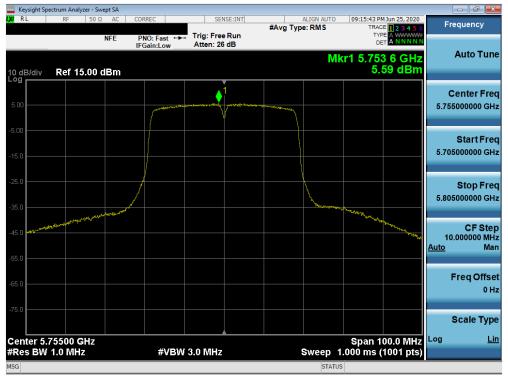
Plot 7-251. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax SU (UNII Band 3) - Ch. 157)



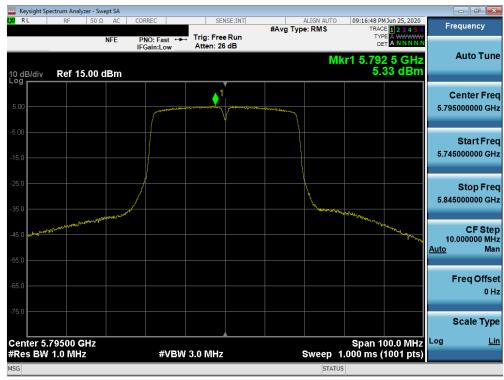
Plot 7-252. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax SU (UNII Band 3) - Ch. 165)

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ eleman:	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
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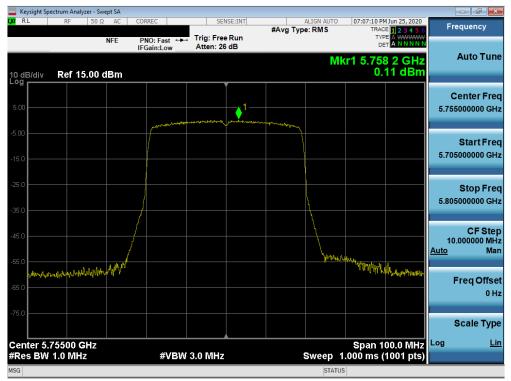
Plot 7-253. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)



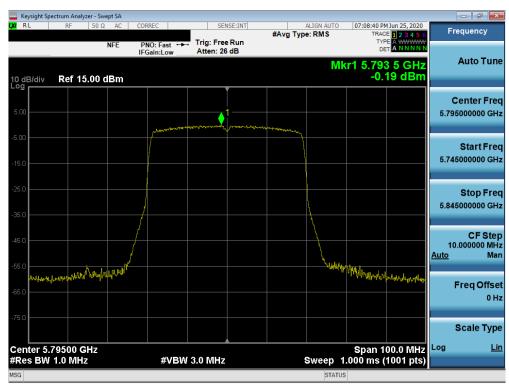
Plot 7-254. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 3) - Ch. 159)

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ eleman:	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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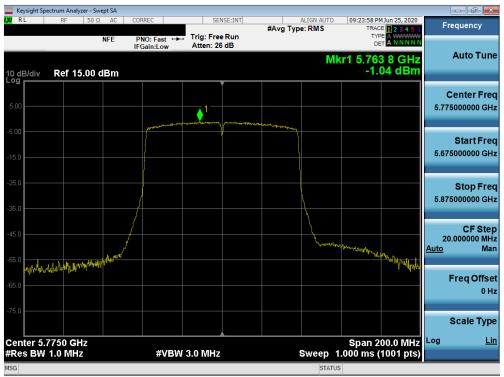
Plot 7-255. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax SU (UNII Band 3) - Ch. 151)



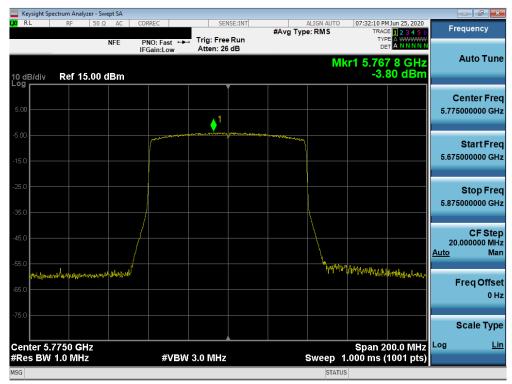
Plot 7-256. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax SU (UNII Band 3) - Ch. 159)

FCC ID: A3LSMT978U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
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Plot 7-257. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)



Plot 7-258. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax SU (UNII Band 3) - Ch. 155)

FCC ID: A3LSMT978U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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Summed MIMO Power Spectral Density Measurements

	F	Ohermed			Antenna-1	Antenna-2	Summed MIMO	Max Power	
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Power Density	Power Density	Power Density	Density	Margin [dB]
	נייורוצן	NO.			[dBm]	[dBm]	[dBm]	[dBm/MHz]	[ub]
	5180	36	а	6	5.55	6.96	9.33	11.0	-1.67
	5200	40	а	6	5.67	6.93	9.35	11.0	-1.65
	5240	48	а	6	5.75	7.31	9.61	11.0	-1.39
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	4.62	5.95	8.35	11.0	-2.65
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	4.80	6.04	8.47	11.0	-2.53
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	4.99	6.28	8.69	11.0	-2.31
Ξ	5180	36	ax (20MHz)	6.5/7.2 (MCS0)	1.24	2.44	4.89	11.0	-6.11
Band 1	5200	40	ax (20MHz)	6.5/7.2 (MCS0)	1.16	2.55	4.92	11.0	-6.08
ä	5240	48	ax (20MHz)	6.5/7.2 (MCS0)	1.41	2.77	5.15	11.0	-5.85
	5190	38	n (40MHz)	13.5/15 (MCS0)	1.82	2.97	5.44	11.0	-5.56
	5230	46	n (40MHz)	13.5/15 (MCS0)	2.01	3.50	5.83	11.0	-5.17
	5190	38	ax (40MHz)	13.5/15 (MCS0)	-1.50	-0.08	2.28	11.0	-8.72
	5230	46	ax (40MHz)	13.5/15 (MCS0)	-1.22	0.37	2.66	11.0	-8.34
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-2.69	-0.85	1.34	11.0	-9.66
	5210	42	ax (80MHz)	29.3/32.5 (MCS0)	-5.69	-3.94	-1.72	11.0	-12.72
	5260	52	а	6	6.09	7.29	9.74	11.0	-1.26
	5280	56	а	6	5.94	6.95	9.49	11.0	-1.51
	5320	64	а	6	5.83	7.85	9.97	11.0	-1.03
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	4.62	6.25	8.52	11.0	-2.48
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	4.53	5.96	8.31	11.0	-2.69
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	4.65	6.21	8.51	11.0	-2.49
₹	5260	52	ax (20MHz)	6.5/7.2 (MCS0)	1.69	2.52	5.13	11.0	-5.87
Band 2A	5280	56	ax (20MHz)	6.5/7.2 (MCS0)	1.16	2.71	5.01	11.0	-5.99
Bar	5320	64	ax (20MHz)	6.5/7.2 (MCS0)	1.04	2.98	5.13	11.0	-5.87
	5270	54	n (40MHz)	13.5/15 (MCS0)	1.00	2.26	4.69	11.0	-6.31
	5310	62	n (40MHz)	13.5/15 (MCS0)	0.82	2.08	4.51	11.0	-6.49
	5270	54	ax (40MHz)	13.5/15 (MCS0)	-0.91	0.20	2.69	11.0	-8.31
	5310	62	ax (40MHz)	13.5/15 (MCS0)	-1.28	0.01	2.42	11.0	-8.58
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-2.14	-0.94	1.51	11.0	-9.49
	5290	58	ax (80MHz)	29.3/32.5 (MCS0)	-5.44	-4.41	-1.88	11.0	-12.88
	5500	100	a	6	5.11	5.80	8.48	11.0	-2.52
	5600	120	a	6	4.83	6.03	8.48	11.0	-2.52
	5720	144	a	6	5.11	6.50	8.87	11.0	-2.13
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	4.64	5.63	8.17	11.0	-2.83
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	4.51	6.09	8.38	11.0	-2.62
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	4.74	6.43	8.68	11.0	-2.32
	5500	100	ax (20MHz)	6.5/7.2 (MCS0)	1.66	2.85	5.31	11.0	-5.69
	5600	120	ax (20MHz)	6.5/7.2 (MCS0)	1.39	1.68	4.55	11.0	-6.45
	5720	144	ax (20MHz)	6.5/7.2 (MCS0)	1.44	2.64	5.09	11.0	-5.91
SC	5510	102	n (40MHz)	13.5/15 (MCS0)	3.91	4.88	7.43	11.0	-3.57
d 2	5590	118	n (40MHz)	13.5/15 (MCS0)	3.31	4.53	6.97	11.0	-4.03
Band	5710	142	n (40MHz)	13.5/15 (MCS0)	4.03	5.92	8.09	11.0	-2.91
	5510	142	ax (40MHz)	13.5/15 (MCS0)	-1.60	0.08	2.33	11.0	-8.67
	5590	102	ax (40101Hz) ax (40MHz)	13.5/15 (MCS0)	-2.20	-0.68	1.63	11.0	-9.37
	5710	142	ax (40MHz)	13.5/15 (MCS0)	-2.20	0.06	2.57	11.0	-9.37
	5530	142	ac (80MHz)	29.3/32.5 (MCS0)	-2.89	-1.43	0.91	11.0	-10.09
	5530	100	ac (80MHz) ac (80MHz)	29.3/32.5 (MCS0) 29.3/32.5 (MCS0)	-2.69	-1.43	0.91	11.0	-10.09
			, ,	()					
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-2.66	-0.85	1.35	11.0	-9.65
	5530 5610	106	ax (80MHz)	29.3/32.5 (MCS0)	-6.18	-4.64	-2.33	11.0	-13.33
	5610	122	ax (80MHz)	29.3/32.5 (MCS0)	-6.44	-4.93	-2.61	11.0	-13.61
	5690	138	ax (80MHz)	29.3/32.5 (MCS0) 2C MIMO Cor	-5.53	-3.99	-1.68	11.0	-12.68

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

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	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 Permissible Power Density [dBm/500kHz]	Margin [dB]
	5745	149	а	6	6.75	7.97	10.41	30.0	-19.59
	5785	157	а	6	6.82	7.71	10.30	30.0	-19.70
	5825	165	а	6	6.84	7.95	10.44	30.0	-19.56
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	6.66	7.95	10.36	30.0	-19.64
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	6.86	7.82	10.38	30.0	-19.62
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	6.87	8.23	10.62	30.0	-19.38
e	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	1.69	2.92	5.36	30.0	-24.64
Band	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	1.46	2.98	5.30	30.0	-24.70
ä	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	1.33	2.50	4.96	30.0	-25.04
	5755	151	n (40MHz)	13.5/15 (MCS0)	4.04	5.59	7.89	30.0	-22.11
	5795	159	n (40MHz)	13.5/15 (MCS0)	3.90	5.33	7.68	30.0	-22.32
	5755	151	ax (40MHz)	13.5/15 (MCS0)	-0.90	0.11	2.65	30.0	-27.35
	5795	159	ax (40MHz)	13.5/15 (MCS0)	-0.97	-0.19	2.45	30.0	-27.55
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-2.06	-1.04	1.49	30.0	-28.51
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	-5.17	-3.80	-1.42	30.0	-31.42

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

FCC ID: A3LSMT978U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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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 4.62 dBm for Antenna-1 and 5.95 dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

(4.62 dBm + 5.95 dBm) = (2.90 mW + 3.93 mW) = 6.83 mW = 8.34 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 must not exceed the limits shown in Table 7-27 per Section 15.209.

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 $\geq 2 \times \text{span/RBW}$)
- 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.

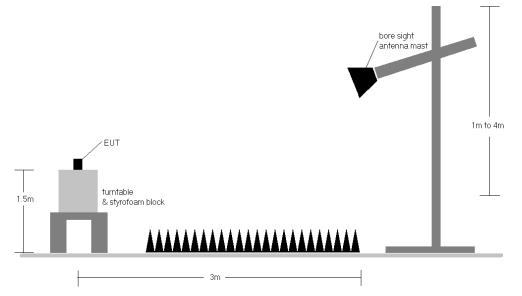


Figure 7-5. Test Instrument & Measurement Setup

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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

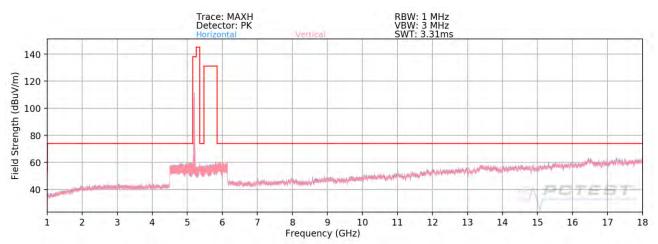
• The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula: Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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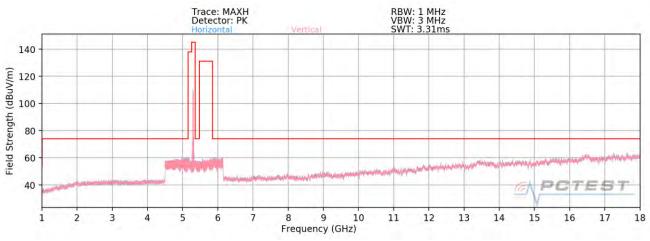


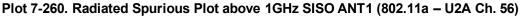


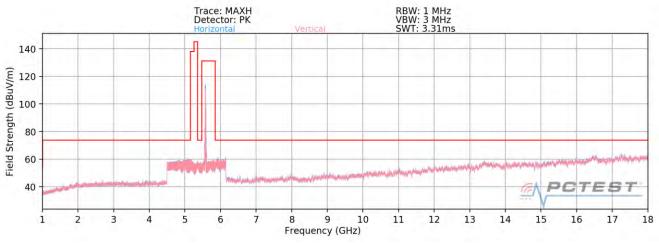
SISO Antenna-1 Radiated Spurious Emission Measurements







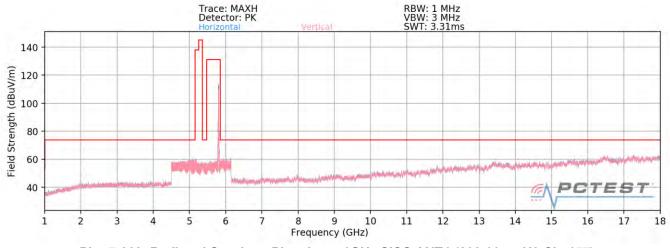




Plot 7-261. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U2C Ch. 120)

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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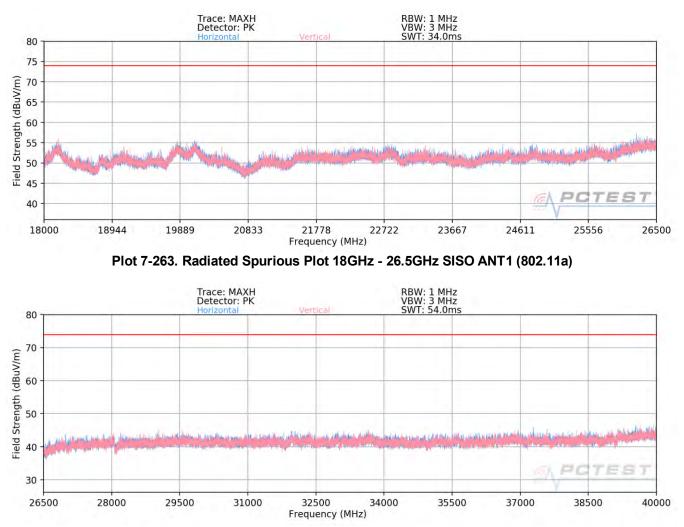




Plot 7-262. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a - U3 Ch. 157)

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ eleman:	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)

Plot 7-264. 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	Н	100	191	-71.85	17.66	0.00	52.81	68.20	-15.39
*	15540.00	Average	Н	-	-	-85.35	27.40	0.00	49.05	53.98	-4.93
*	15540.00	Peak	Н	-	-	-74.68	27.40	0.00	59.72	73.98	-14.26
*	20720.00	Average	Н	-	-	-60.19	-3.74	-9.54	33.53	53.98	-20.45
*	20720.00	Peak	н	-	-	-52.47	-3.74	-9.54	41.25	73.98	-32.73
	25900.00	Peak	Н	-	-	-50.68	-3.03	-9.54	43.75	68.20	-24.45

Table 7-28. Radiated Measurements SISO ANT1

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	-	-	-72.98	17.05	0.00	51.07	68.20	-17.13
*	15600.00	Average	Н	-	-	-85.17	27.72	0.00	49.55	53.98	-4.43
*	15600.00	Peak	Н	-	-	-74.01	27.72	0.00	60.71	73.98	-13.27
*	20800.00	Average	Н	-	-	-59.47	-3.76	-9.54	34.23	53.98	-19.75
*	20800.00	Peak	Н	-	-	-51.80	-3.76	-9.54	41.90	73.98	-32.08
	26000.00	Peak	н	-	-	-50.52	-2.81	-9.54	44.13	68.20	-24.07
L				Table 7-2	0 Dadiata	d Mooour	monto S	ISO ANT1			

Table 7-29. Radiated Measurements SISO ANT1

FCC ID: A3LSMT978U	PCTEST Proud to big part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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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	-	-	-72.89	18.64	0.00	52.75	68.20	-15.45
*	15720.00	Average	Н	-	-	-85.01	28.05	0.00	50.04	53.98	-3.94
*	15720.00	Peak	н	-	-	-73.61	28.05	0.00	61.44	73.98	-12.54
*	20960.00	Average	н	-	-	-59.94	-3.71	-9.54	33.81	53.98	-20.17
*	20960.00	Peak	Н	-	-	-51.75	-3.71	-9.54	42.00	73.98	-31.98
	26200.00	Peak	Н	-	-	-51.77	-2.65	-9.54	43.03	68.20	-25.17

Table 7-30. Radiated Measurements SISO ANT1

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	Н	-	-	-73.46	19.03	0.00	52.57	68.20	-15.63
*	15780.00	Average	Н	-	-	-85.02	27.96	0.00	49.94	53.98	-4.04
*	15780.00	Peak	н	-	-	-73.88	27.96	0.00	61.08	73.98	-12.90
*	21040.00	Average	н	-	-	-60.33	-3.87	-9.54	33.26	53.98	-20.72
*	21040.00	Peak	н	-	-	-52.55	-3.87	-9.54	41.04	73.98	-32.94
	26300.00	Peak	Н	-	-	-50.63	-2.82	-9.54	44.01	68.20	-24.19

Table 7-31. Radiated Measurements SISO ANT1

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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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	-	-	-72.97	18.52	0.00	52.55	68.20	-15.65
*	15840.00	Average	н	-	-	-84.85	27.75	0.00	49.90	53.98	-4.08
*	15840.00	Peak	н	-	-	-73.10	27.75	0.00	61.65	73.98	-12.33
*	21120.00	Average	н	-	-	-60.46	-3.66	-9.54	33.34	53.98	-20.64
*	21120.00	Peak	н	-	-	-52.26	-3.66	-9.54	41.54	73.98	-32.44
	26400.00	Peak	н	-	-	-50.38	-2.63	-9.54	44.45	68.20	-23.75

Table 7-32. Radiated Measurements SISO ANT1

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	-	-	-83.93	18.06	0.00	41.13	53.98	-12.85
*	10640.00	Peak	Н	-	-	-72.49	18.06	0.00	52.57	73.98	-21.41
*	15960.00	Average	н	-	-	-85.33	28.47	0.00	50.14	53.98	-3.84
*	15960.00	Peak	Н	-	-	-74.17	28.47	0.00	61.30	73.98	-12.68
*	21280.00	Average	Н	-	-	-60.22	-3.58	-9.54	33.66	53.98	-20.32
*	21280.00	Peak	Н	-	-	-51.94	-3.58	-9.54	41.94	73.98	-32.04
	26600.00	Peak	Н	-	-	-51.77	-2.25	-9.54	43.44	68.20	-24.76

Table 7-33. Radiated Measurements SISO ANT1

FCC ID: A3LSMT978U	Proved to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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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	-	-	-84.17	19.55	0.00	42.38	53.98	-11.60
*	11000.00	Peak	Н	-	-	-73.16	19.55	0.00	53.39	73.98	-20.59
	16500.00	Peak	н	-	-	-73.59	27.92	0.00	61.33	68.20	-6.87
	22000.00	Peak	н	-	-	-52.18	-3.43	-9.54	41.85	68.20	-26.35
	27500.00	Peak	н	-	-	-51.55	-2.72	-9.54	43.19	68.20	-25.01

Table 7-34. Radiated Measurements SISO ANT1

Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel: 802.11a 6Mbps 1 & 3 Meters 5600MHz 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	Н	-	-	-84.23	20.54	0.00	43.31	53.98	-10.67
*	11200.00	Peak	Н	-	-	-73.13	20.54	0.00	54.41	73.98	-19.57
	16800.00	Peak	Н	-	-	-73.49	28.93	0.00	62.44	68.20	-5.76
*	22400.00	Average	Н	-	-	-63.49	-3.34	-9.54	30.63	53.98	-23.35
*	22400.00	Peak	Н	-	-	-51.83	-3.34	-9.54	42.29	73.98	-31.69
	28000.00	Peak	Н	-	-	-50.37	-2.26	-9.54	44.82	68.20	-23.38

Table 7-35. Radiated Measurements SISO ANT1

FCC ID: A3LSMT978U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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802.11a
6Mbps
1 & 3 Meters
5720MHz
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	-	-	-83.96	19.81	0.00	42.85	53.98	-11.13
*	11440.00	Peak	Н	-	-	-72.34	19.81	0.00	54.47	73.98	-19.51
	17160.00	Peak	Н	-	-	-74.06	29.21	0.00	62.15	68.20	-6.05
*	22880.00	Average	Н	-	-	-63.23	-3.38	-9.54	30.85	53.98	-23.13
*	22880.00	Peak	Н	-	-	-52.12	-3.38	-9.54	41.96	73.98	-32.02
	28600.00	Peak	Н	-	-	-51.50	-2.02	-9.54	43.94	68.20	-24.26

Table 7-36. Radiated Measurements SISO ANT1

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	Н	-	-	-83.81	20.17	0.00	43.36	53.98	-10.62
*	11490.00	Peak	Н	-	-	-73.25	20.17	0.00	53.92	73.98	-20.06
	17235.00	Peak	н	-	-	-73.27	29.21	0.00	62.94	68.20	-5.26
*	22980.00	Average	н	-	-	-63.33	-3.46	-9.54	30.67	53.98	-23.31
*	22980.00	Peak	Н	-	-	-51.75	-3.46	-9.54	42.25	73.98	-31.73
	28725.00	Peak	Н	-	-	-51.47	-2.02	-9.54	43.96	68.20	-24.24

Table 7-37. Radiated Measurements SISO ANT1

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element:	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality 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	-	-	-84.26	19.94	0.00	42.68	53.98	-11.30
*	11570.00	Peak	Н	-	-	-73.30	19.94	0.00	53.64	73.98	-20.34
	17355.00	Peak	н	-	-	-73.69	27.43	0.00	60.74	68.20	-7.46
	23140.00	Peak	н	-	-	-50.95	-3.47	-9.54	43.04	68.20	-25.16
	28925.00	Peak	н	-	-	-51.67	-2.31	-9.54	43.48	68.20	-24.72

Table 7-38. Radiated Measurements SISO ANT1

Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel: 802.11a 6Mbps 1 & 3 Meters 5825MHz 165

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Factor	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11650.00	Average	Н	-	-	-84.11	20.39	0.00	43.28	53.98	-10.70
*	11650.00	Peak	Н	-	-	-73.56	20.39	0.00	53.83	73.98	-20.15
	17475.00	Peak	Н	-	-	-74.69	29.79	0.00	62.10	68.20	-6.10
	23300.00	Peak	Н	-	-	-51.95	-3.52	-9.54	41.99	68.20	-26.21
	29125.00	Peak	Н	-	-	-51.74	-1.91	-9.54	43.81	68.20	-24.39

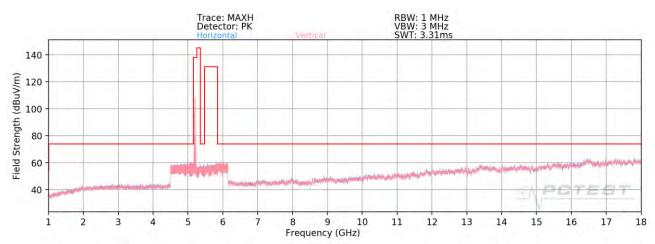
Table 7-39. Radiated Measurements SISO ANT1

FCC ID: A3LSMT978U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 178 of 231
1M2004230075-08.A3L	4/26 - 07/16/2020	Portable Tablet		Fage 17001201
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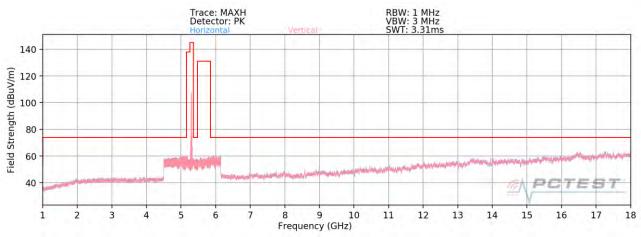




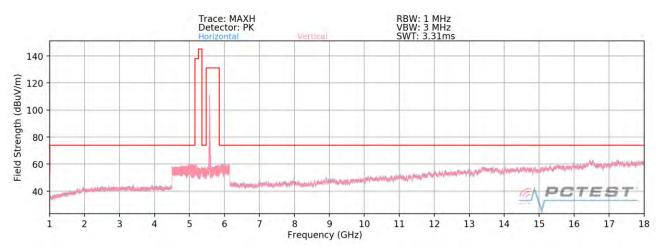
SISO Antenna-2 Radiated Spurious Emission Measurements







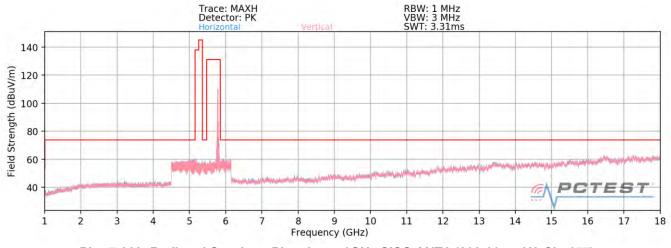
Plot 7-266. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a – U2A Ch. 56)



Plot 7-267. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a - U2C Ch. 120)

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 179 of 231
1M2004230075-08.A3L	4/26 - 07/16/2020	Portable Tablet		Fage 17901231
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Plot 7-268. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a - U3 Ch. 157)

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ eleman:	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 180 of 231
1M2004230075-08.A3L	4/26 - 07/16/2020	Portable Tablet		Fage 100 01 231
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SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)

Plot 7-270. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11a)

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ eleman:	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 181 of 231
1M2004230075-08.A3L	4/26 - 07/16/2020	Portable Tablet		Fage 10101231
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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	V	101	148	-71.52	17.66	0.00	53.14	68.20	-15.06
*	15540.00	Average	V	-	-	-85.40	27.40	0.00	49.00	53.98	-4.98
*	15540.00	Peak	V	-	-	-74.19	27.40	0.00	60.21	73.98	-13.77
*	20720.00	Average	V	-	-	-63.94	-3.74	-9.54	29.78	53.98	-24.20
*	20720.00	Peak	V	-	-	-52.48	-3.74	-9.54	41.24	73.98	-32.74
	25900.00	Peak	V	-	-	-51.60	-3.03	-9.54	42.83	68.20	-25.37

Table 7-40. Radiated Measurements SISO ANT2

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	V	162	189	-72.11	17.05	0.00	51.94	68.20	-16.26
*	15600.00	Average	V	-	-	-85.51	27.72	0.00	49.21	53.98	-4.77
*	15600.00	Peak	V	-	-	-74.41	27.72	0.00	60.31	73.98	-13.67
*	20800.00	Average	V	-	-	-63.59	-3.76	-9.54	30.11	53.98	-23.87
*	20800.00	Peak	V	-	-	-52.50	-3.76	-9.54	41.20	73.98	-32.78
	26000.00	Peak	V	-	-	-51.00	-2.81	-9.54	43.65	68.20	-24.55
	Table 7-41 Radiated Measurements SISO ANT2										

Table 7-41. Radiated Measurements SISO ANT2

FCC ID: A3LSMT978U	Proved to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 182 of 231
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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	-	-	-72.92	18.64	0.00	52.72	68.20	-15.48
*	15720.00	Average	V	-	-	-85.07	28.05	0.00	49.98	53.98	-4.00
*	15720.00	Peak	V	-	-	-74.08	28.05	0.00	60.97	73.98	-13.01
*	20960.00	Average	V	-	-	-63.63	-3.71	-9.54	30.12	53.98	-23.86
*	20960.00	Peak	V	-	-	-52.07	-3.71	-9.54	41.68	73.98	-32.30
	26200.00	Peak	V	-	-	-51.71	-2.65	-9.54	43.09	68.20	-25.11

Table 7-42. Radiated Measurements SISO ANT2

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	V	-	-	-72.10	19.03	0.00	53.93	68.20	-14.27
*	15780.00	Average	V	-	-	-85.13	27.96	0.00	49.83	53.98	-4.15
*	15780.00	Peak	V	-	-	-74.53	27.96	0.00	60.43	73.98	-13.55
*	21040.00	Average	V	-	-	-63.47	-3.87	-9.54	30.12	53.98	-23.86
*	21040.00	Peak	V	-	-	-51.58	-3.87	-9.54	42.01	73.98	-31.97
	26300.00	Peak	V	-	-	-51.15	-2.82	-9.54	43.49	68.20	-24.71

Table 7-43. Radiated Measurements SISO ANT2

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 183 of 231
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802.11a			
6Mbps			
1 & 3 Meters			
5280MHz			
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	-	-	-72.61	18.52	0.00	52.91	68.20	-15.29
*	15840.00	Average	V	-	-	-84.85	27.75	0.00	49.90	53.98	-4.08
*	15840.00	Peak	V	-	-	-74.30	27.75	0.00	60.45	73.98	-13.53
*	21120.00	Average	V	-	-	-63.85	-3.66	-9.54	29.95	53.98	-24.03
*	21120.00	Peak	V	-	-	-51.80	-3.66	-9.54	42.00	73.98	-31.98
	26400.00	Peak	V	-	-	-51.23	-2.63	-9.54	43.60	68.20	-24.60

Table 7-44. Radiated Measurements SISO ANT2

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	V	131	199	-83.65	18.06	0.00	41.41	53.98	-12.57
10640.00	Peak	V	131	199	-72.90	18.06	0.00	52.16	73.98	-21.82
15960.00	Average	V	-	-	-85.43	28.47	0.00	50.04	53.98	-3.94
15960.00	Peak	V	-	-	-73.69	28.47	0.00	61.78	73.98	-12.20
21280.00	Average	V	-	-	-63.78	-3.58	-9.54	30.09	53.98	-23.89
21280.00	Peak	V	-	-	-52.36	-3.58	-9.54	41.51	73.98	-32.47
26600.00	Peak	V	-	-	-51.50	-2.25	-9.54	43.71	68.20	-24.49
	[MHz] 10640.00 10640.00 15960.00 15960.00 21280.00 21280.00	[MHz] Detector 10640.00 Average 10640.00 Peak 15960.00 Average 15960.00 Peak 21280.00 Average 21280.00 Peak	Frequency [MHz]DetectorPol. [H/V]10640.00AverageV10640.00PeakV15960.00AverageV15960.00PeakV21280.00AverageV21280.00PeakV26600.00PeakV	Frequency [MHz]DetectorPol. [H/V]Height [cm]10640.00AverageV13110640.00PeakV13115960.00AverageV13115960.00PeakV-21280.00AverageV-21280.00PeakV-26600.00PeakV-	Frequency [MHz]DetectorPol. [H/V]Height [cm]Azimuth [degree]10640.00AverageV13119910640.00PeakV13119910640.00PeakV13119915960.00AverageV15960.00PeakV21280.00AverageV21280.00PeakV26600.00PeakV	Frequency [MHz] Detector Pol. [H/V] Height [cm] Azimuth [degree] Level [dBm] 10640.00 Average V 131 199 -83.65 10640.00 Peak V 131 199 -83.65 10640.00 Peak V 131 199 -72.90 15960.00 Average V - - -85.43 15960.00 Peak V - - -73.69 21280.00 Average V - - -63.78 21280.00 Peak V - - -52.36 26600.00 Peak V - - -51.50	Frequency [MHz] Detector Pol. [H/V] Height [cm] Azimuth [degree] Level [dBm] AFCL [dBm] 10640.00 Average V 131 199 -83.65 18.06 10640.00 Peak V 131 199 -72.90 18.06 10640.00 Peak V 131 199 -72.90 18.06 15960.00 Average V -131 199 -72.90 18.06 15960.00 Average V -131 199 -72.90 18.06 15960.00 Peak V -5 -85.43 28.47 15960.00 Peak V - - -35.93 28.47 21280.00 Average V - - -63.78 -3.58 26600.00 Peak V - - -51.50 -2.25	Frequency [MHz]DetectorAnt. Pol. [H/V]Antenna Height [cm]Turntable Azimuth [degree]Analyzer Level [dBm]AFCL [dB/m]Correction Factor [dB]10640.00AverageV131199-83.6518.060.0010640.00PeakV131199-72.9018.060.0010640.00PeakV131199-72.9018.060.0015960.00AverageV85.4328.470.0015960.00PeakV73.6928.470.0021280.00AverageV63.78-3.58-9.5421280.00PeakV	Frequency [MHz]DetectorAnt. Pol. [H/V]Antenna Height [cm]Turntable Azimuth [degree]Analyzer Level [dBm]AFCL [dB/m]Correction Factor [dB]Field Strength [dBµV/m]10640.00AverageV131199-83.6518.060.0041.4110640.00PeakV131199-72.9018.060.0052.1615960.00AverageV131199-72.9018.060.0050.0415960.00PeakV85.4328.470.0050.0415960.00PeakV73.6928.470.0061.7821280.00AverageV63.78-3.58-9.5430.0921280.00PeakV52.36-3.58-9.5441.5126600.00PeakV51.50-2.25-9.5443.71	Frequency [MHz]DetectorAnt. Pol. [H/V]Antenna Height [cm]Turntable Azimuth [degree]Analyzer Level [dBm]AFCL [dB/m]Correction Factor [dB]Field Strength [dBµV/m]Limit [dBµV/m]10640.00AverageV131199-83.6518.060.0041.4153.9810640.00PeakV131199-72.9018.060.0052.1673.9815960.00AverageV131199-72.9018.060.0050.0453.9815960.00PeakV85.4328.470.0061.7873.9815960.00PeakV73.6928.470.0061.7873.9821280.00PeakV63.78-3.58-9.5430.0953.9821280.00PeakV52.36-3.58-9.5441.5173.9826600.00PeakV51.50-2.25-9.5443.7168.20

Table 7-45. Radiated Measurements SISO ANT2

FCC ID: A3LSMT978U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Page 184 of 231	
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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	-	-	-83.91	19.55	0.00	42.64	53.98	-11.34
*	11000.00	Peak	V	-	-	-72.30	19.55	0.00	54.25	73.98	-19.73
	16500.00	Peak	V	-	-	-72.66	27.92	0.00	62.26	68.20	-5.94
	22000.00	Peak	V	-	-	-51.73	-3.43	-9.54	42.30	68.20	-25.90
	27500.00	Peak	V	-	-	-51.27	-2.72	-9.54	43.47	68.20	-24.73

Table 7-46. Radiated Measurements SISO ANT2

Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel: 802.11a 6Mbps 1 & 3 Meters 5600MHz 120

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11200.00	Average	V	-	-	-83.84	20.54	0.00	43.70	53.98	-10.28
*	11200.00	Peak	V	-	-	-72.60	20.54	0.00	54.94	73.98	-19.04
	16800.00	Peak	V	-	-	-72.92	28.93	0.00	63.01	68.20	-5.19
*	22400.00	Average	V	-	-	-63.39	-3.34	-9.54	30.73	53.98	-23.25
*	22400.00	Peak	V	-	-	-51.58	-3.34	-9.54	42.54	73.98	-31.44
	28000.00	Peak	V	-	-	-50.69	-2.26	-9.54	44.50	68.20	-23.70

Table 7-47. Radiated Measurements SISO ANT2

FCC ID: A3LSMT978U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: Test Dates:		EUT Type:	Page 185 of 231	
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802.11a			
6Mbps			
1 & 3 Meters			
5720MHz			
144			

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11440.00	Average	V	-	-	-83.80	19.81	0.00	43.01	53.98	-10.97
*	11440.00	Peak	V	-	-	-72.57	19.81	0.00	54.24	73.98	-19.74
	17160.00	Peak	V	-	-	-74.07	29.21	0.00	62.14	68.20	-6.06
*	22880.00	Average	V	-	-	-63.29	-3.38	-9.54	30.79	53.98	-23.19
*	22880.00	Peak	V	-	-	-51.85	-3.38	-9.54	42.23	73.98	-31.75
	28600.00	Peak	V	-	-	-51.74	-2.02	-9.54	43.70	68.20	-24.50

Table 7-48. Radiated Measurements SISO ANT2

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	V	165	177	-83.22	20.17	0.00	43.95	53.98	-10.03
*	11490.00	Peak	V	165	177	-72.65	20.17	0.00	54.52	73.98	-19.46
	17235.00	Peak	V	-	-	-73.59	29.21	0.00	62.62	68.20	-5.58
*	22980.00	Average	V	-	-	-63.40	-3.46	-9.54	30.60	53.98	-23.38
*	22980.00	Peak	V	-	-	-52.17	-3.46	-9.54	41.83	73.98	-32.15
	28725.00	Peak	V	-	-	-51.39	-2.02	-9.54	44.04	68.20	-24.16

Table 7-49. Radiated Measurements SISO ANT2

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Page 186 of 231	
1M2004230075-08.A3L	4/26 - 07/16/2020	Portable Tablet	le Tablet		
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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	V	149	175	-82.82	19.94	0.00	44.12	53.98	-9.86
*	11570.00	Peak	V	149	175	-71.34	19.94	0.00	55.60	73.98	-18.38
	17355.00	Peak	V	-	-	-73.46	27.43	0.00	60.97	68.20	-7.23
	23140.00	Peak	V	-	-	-51.11	-3.47	-9.54	42.88	68.20	-25.32
	28925.00	Peak	V	-	-	-51.70	-2.31	-9.54	43.45	68.20	-24.75

Table 7-50. Radiated Measurements SISO ANT2

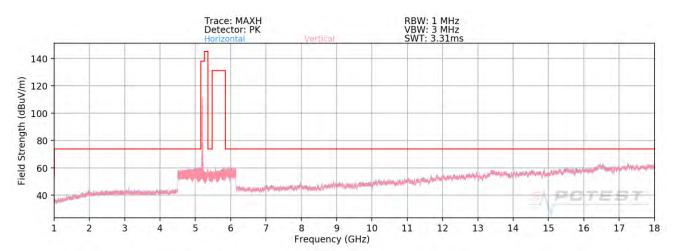
Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel: 802.11a 6Mbps 1 & 3 Meters 5825MHz 165

	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	153	176	-82.37	20.39	0.00	45.02	53.98	-8.96
*	11650.00	Peak	V	153	176	-69.87	20.39	0.00	57.52	73.98	-16.46
	17475.00	Peak	V	-	-	-74.24	29.79	0.00	62.55	68.20	-5.65
	23300.00	Peak	V	-	-	-52.06	-3.52	-9.54	41.88	68.20	-26.32
	29125.00	Peak	V	-	-	-51.49	-1.91	-9.54	44.06	68.20	-24.14

Table 7-51. Radiated Measurements SISO ANT2

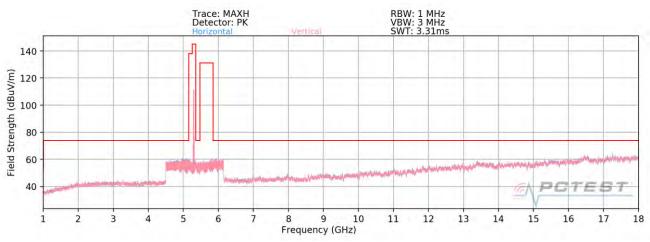
FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element:	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 187 of 231
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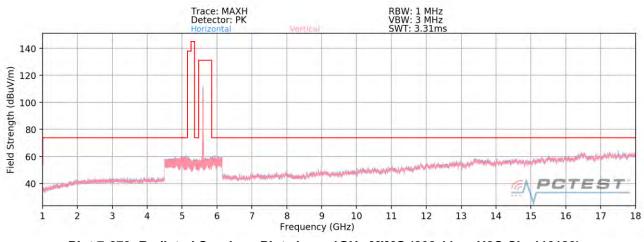


7.6.3 MIMO Radiated Spurious Emission Measurements





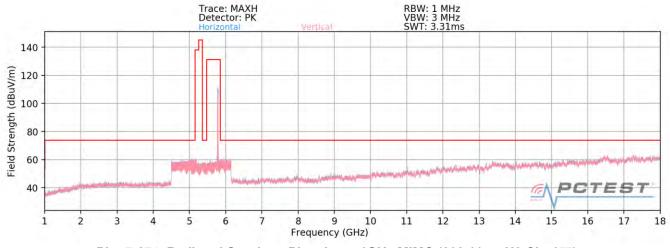




Plot 7-273. Radiated Spurious Plot above 1GHz MIMO (802.11a – U2C Ch. 116120)

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 188 of 231
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Plot 7-274. Radiated Spurious Plot above 1GHz MIMO (802.11a - U3 Ch. 157)

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element:	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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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 Correctio n Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	V	235	193	-71.45	17.66	0.00	53.21	68.20	-14.99
*	15540.00	Average	V	-	-	-85.35	27.40	0.00	49.05	53.98	-4.93
*	15540.00	Peak	V	-	-	-74.20	27.40	0.00	60.20	73.98	-13.78
*	20720.00	Average	V	-	-	-63.94	-3.74	-9.54	29.78	53.98	-24.20
*	20720.00	Peak	V	-	-	-52.34	-3.74	-9.54	41.38	73.98	-32.60
	25900.00	Peak	V	-	-	-51.62	-3.03	-9.54	42.81	68.20	-25.39

Table 7-52. 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 Correctio n Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10400.00	Peak	V	386	193	-72.34	17.05	0.00	51.71	68.20	-16.49
*	15600.00	Average	V	-	-	-85.42	27.72	0.00	49.30	53.98	-4.68
*	15600.00	Peak	V	-	-	-74.35	27.72	0.00	60.37	73.98	-13.61
*	20800.00	Average	V	-	-	-63.61	-3.76	-9.54	30.09	53.98	-23.89
*	20800.00	Peak	V	-	-	-52.14	-3.76	-9.54	41.56	73.98	-32.42
	26000.00	Peak	V	-	-	-50.94	-2.81	-9.54	43.71	68.20	-24.49

Table 7-53. Radiated Measurements MIMO

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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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 Correctio n Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10480.00	Peak	V	294	200	-72.80	18.64	0.00	52.84	68.20	-15.36
*	15720.00	Average	V	-	-	-85.18	28.05	0.00	49.87	53.98	-4.11
*	15720.00	Peak	V	-	-	-74.39	28.05	0.00	60.66	73.98	-13.32
*	20960.00	Average	V	-	-	-63.49	-3.71	-9.54	30.26	53.98	-23.72
*	20960.00	Peak	V	-	-	-52.32	-3.71	-9.54	41.43	73.98	-32.55
	26200.00	Peak	V	-	-	-51.64	-2.65	-9.54	43.16	68.20	-25.04

Table 7-54. 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	V	258	179	-73.11	19.03	0.00	52.92	68.20	-15.28
*	15780.00	Average	V	-	-	-85.07	27.96	0.00	49.89	53.98	-4.09
*	15780.00	Peak	V	-	-	-73.94	27.96	0.00	61.02	73.98	-12.96
*	21040.00	Average	V	-	-	-63.47	-3.87	-9.54	30.12	53.98	-23.86
*	21040.00	Peak	V	-	-	-51.22	-3.87	-9.54	42.37	73.98	-31.61
	26300.00	Peak	V	-	-	-50.94	-2.82	-9.54	43.70	68.20	-24.50

Table 7-55. Radiated Measurements MIMO

FCC ID: A3LSMT978U	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Page 191 of 231	
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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	V	313	179	-72.36	18.52	0.00	53.16	68.20	-15.04
*	15840.00	Average	V	-	-	-84.86	27.75	0.00	49.89	53.98	-4.09
*	15840.00	Peak	V	-	-	-73.82	27.75	0.00	60.93	73.98	-13.05
*	21120.00	Average	V	-	-	-63.61	-3.66	-9.54	30.19	53.98	-23.79
*	21120.00	Peak	V	-	-	-52.80	-3.66	-9.54	41.00	73.98	-32.98
	26400.00	Peak	V	-	-	-50.75	-2.63	-9.54	44.08	68.20	-24.12

Table 7-56. 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	V	141	199	-83.10	18.06	0.00	41.96	53.98	-12.02
*	10640.00	Peak	V	141	199	-72.45	18.06	0.00	52.61	73.98	-21.37
*	15960.00	Average	V	-	-	-85.49	28.47	0.00	49.98	53.98	-4.00
*	15960.00	Peak	V	-	-	-74.66	28.47	0.00	60.81	73.98	-13.17
*	21280.00	Average	V	-	-	-63.84	-3.58	-9.54	30.03	53.98	-23.95
*	21280.00	Peak	V	-	-	-51.22	-3.58	-9.54	42.65	73.98	-31.33
	26600.00	Peak	V	-	-	-52.08	-2.25	-9.54	43.13	68.20	-25.07

Table 7-57. Radiated Measurements MIMO

FCC ID: A3LSMT978U	PCTEST* Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Page 192 of 231	
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802.11a
6Mbps
1 & 3 Meters
5500MHz
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	-	-	-84.13	19.55	0.00	42.42	53.98	-11.56
*	11000.00	Peak	V	-	-	-73.07	19.55	0.00	53.48	73.98	-20.50
	16500.00	Peak	V	-	-	-72.65	27.92	0.00	62.27	68.20	-5.93
	22000.00	Peak	V	-	-	-51.63	-3.43	-9.54	42.40	68.20	-25.80
	27500.00	Peak	V	-	-	-50.80	-2.72	-9.54	43.94	68.20	-24.26

Table 7-58. Radiated Measurements MIMO

Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel: 802.11a 6Mbps 1 & 3 Meters 5580MHz 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]
*	11200.00	Average	V	-	-	-84.11	18.21	0.00	41.10	53.98	-12.87
*	11200.00	Peak	V	-	-	-73.15	18.21	0.00	52.06	73.98	-21.91
	16800.00	Peak	V	-	-	-73.07	29.29	0.00	63.22	68.20	-4.98
*	22400.00	Average	V	-	-	-63.43	-3.34	-9.54	30.69	53.98	-23.29
*	22400.00	Peak	V	-	-	-51.89	-3.34	-9.54	42.23	73.98	-31.75
	28000.00	Peak	V	-	-	-50.28	-2.26	-9.54	44.91	68.20	-23.29

Table 7-59. Radiated Measurements MIMO

FCC ID: A3LSMT978U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 193 of 231
1M2004230075-08.A3L	4/26 - 07/16/2020	Portable Tablet	Fage 19301231	
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802.11a			
6Mbps			
1 & 3 Meters			
5720MHz			
144			

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11440.00	Average	V	-	-	-83.42	19.81	0.00	43.39	53.98	-10.59
*	11440.00	Peak	V	-	-	-72.43	19.81	0.00	54.38	73.98	-19.60
	17160.00	Peak	V	-	-	-74.37	29.21	0.00	61.84	68.20	-6.36
*	22880.00	Average	V	-	-	-63.16	-3.38	-9.54	30.92	53.98	-23.06
*	22880.00	Peak	V	-	-	-51.87	-3.38	-9.54	42.21	73.98	-31.77
	28600.00	Peak	V	-	-	-49.65	-2.02	-9.54	45.79	68.20	-22.41

Table 7-60. 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	V	155	185	-83.21	20.17	0.00	43.96	53.98	-10.02
*	11490.00	Peak	V	155	185	-72.00	20.17	0.00	55.17	73.98	-18.81
	17235.00	Peak	V	-	-	-72.82	29.21	0.00	63.39	68.20	-4.81
*	22980.00	Average	V	-	-	-63.38	-3.46	-9.54	30.62	53.98	-23.36
*	22980.00	Peak	V	-	-	-51.90	-3.46	-9.54	42.10	73.98	-31.88
	28725.00	Peak	V	-	-	-51.08	-2.02	-9.54	44.35	69.20	-24.85

Table 7-61. Radiated Measurements MIMO

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality 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	V	161	186	-83.37	19.94	0.00	43.57	53.98	-10.41
*	11570.00	Peak	V	161	186	-71.85	19.94	0.00	55.09	73.98	-18.89
	17355.00	Peak	V	-	-	-84.71	27.43	0.00	49.72	68.20	-18.48
	23140.00	Peak	V	-	-	-50.98	-3.47	-9.54	43.01	68.20	-25.19
	28925.00	Peak	V	-	-	-51.90	-2.31	-9.54	43.25	68.20	-24.95

Table 7-62. Radiated Measurements MIMO

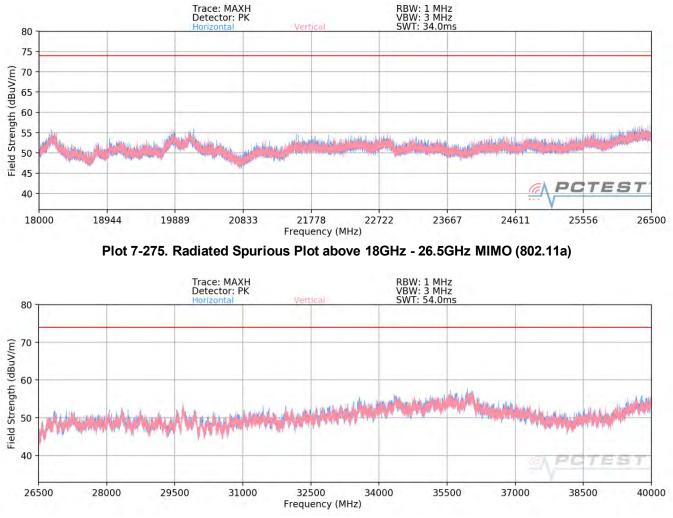
Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel: 802.11a 6Mbps 1 & 3 Meters 5825MHz 165

	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	163	183	-82.40	20.39	0.00	44.99	53.98	-8.99
*	11650.00	Peak	V	163	183	-71.68	20.39	0.00	55.71	73.98	-18.27
	17475.00	Peak	V	-	-	-73.80	29.79	0.00	62.99	68.20	-5.21
	23300.00	Peak	V	-	-	-51.82	-3.52	-9.54	42.12	68.20	-26.08
	29125.00	Peak	V	-	-	-51.69	-1.91	-9.54	43.86	68.20	-24.34

Table 7-63. Radiated Measurements MIMO

FCC ID: A3LSMT978U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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MIMO Radiated Spurious Emissions Measurements (Above 18GHz)

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

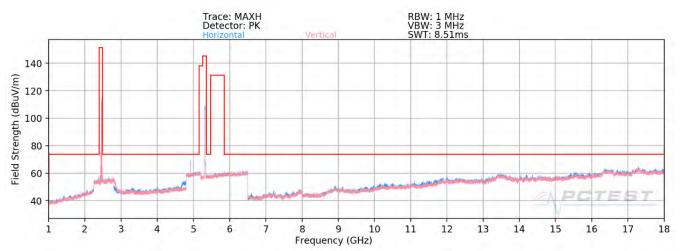
FCC ID: A3LSMT978U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 196 of 231
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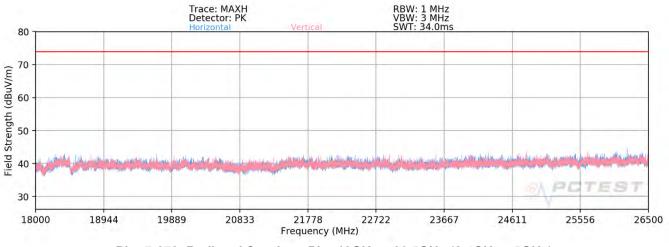
7.6.4 Simultaneous Tx Radiated Spurious Emissions Measurements §15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Description	2.4 GHz Emission	5 GHz Emission
Antenna	1	2
Channel	11	64
Operating Frequency (MHz)	2462	5320
Data Rate (Mbps)	1M	6M
Mode	802.11b	802.11a

Table 7-64. Simultaneous Transmission Config-1



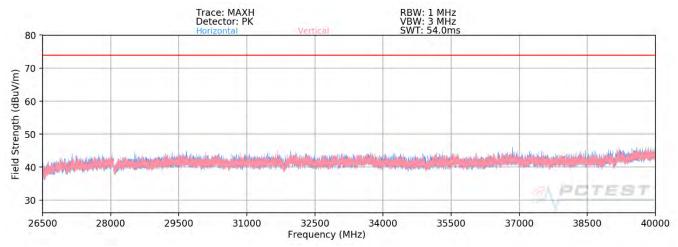
Plot 7-277. Radiated Spurious Plot above 1GHz (2.4GHz – 5GHz)





FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element:	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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1M2004230075-08.A3L	4/26 - 07/16/2020	Portable Tablet	Fage 197 01231	
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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]
396.00	Peak	Н	137.00	142.00	-50.35	-10.91	0.00	45.74	68.20	-22.46
3254.00	Peak	Н	-	-	-65.51	7.37	0.00	48.86	68.20	-19.34
6112.00	Average	Н	-	-	-78.75	12.31	0.00	40.56	53.98	-13.42
6112.00	Peak	Н	-	-	-67.75	12.31	0.00	51.56	73.98	-22.42
8178.00	Average	Н	-	-	-80.11	16.13	0.00	43.02	53.98	-10.95
8178.00	Peak	Н	-	-	-68.80	16.13	0.00	54.33	73.98	-19.64
8970.00	Peak	Н	-	-	-67.64	16.88	0.00	56.24	68.20	-11.96
11036.00	Average	Н	-	-	-79.45	21.28	0.00	48.83	53.98	-5.15
11036.00	Peak	Н	-	-	-67.90	21.28	0.00	60.38	73.98	-13.60
13894.00	Peak	Н	-	-	-67.85	26.72	0.00	65.87	68.20	-2.33

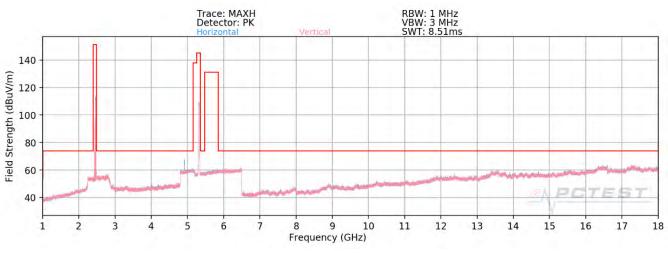
Table 7-65. Radiated Measurements (ANT1 2.4GHz - ANT2 5GHz)

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ eleman:	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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1M2004230075-08.A3L	4/26 - 07/16/2020	Portable Tablet		Fage 19001231
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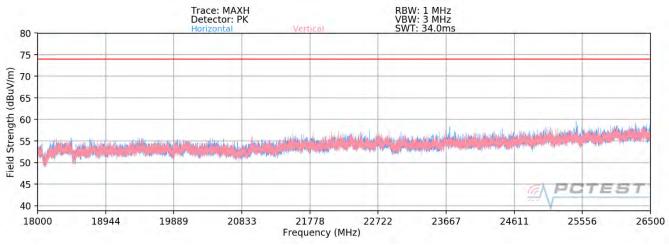


Description	2.4 GHz Emission	5 GHz Emission
Antenna	2	1
Channel	64	10
Operating Frequency (MHz)	5320	2457
Data Rate (Mbps)	6M	1M
Mode	802.11a	802.11b

 Table 7-66. Simultaneous Transmission Config-2



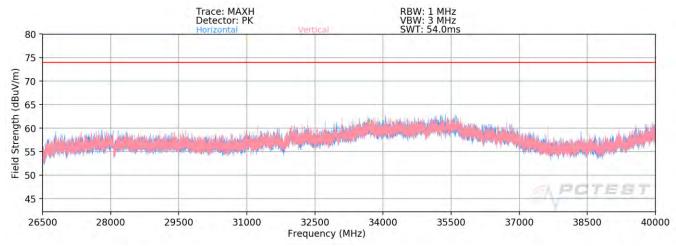
Plot 7-280. Radiated Spurious Plot above 1GHz (5GHz – 2.4 GHz)





FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element:	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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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]
406.00	Peak	Н	-	-	-69.33	-11.00	0.00	26.67	68.20	-41.53
3269.00	Peak	Н	-	-	-66.01	7.25	0.00	48.24	68.20	-19.96
6132.00	Peak	Н	-	-	-67.88	12.60	0.00	51.72	68.20	-16.48
8183.00	Average	Н	-	-	-80.31	16.16	0.00	42.85	53.98	-11.13
8183.00	Peak	Н	-	-	-68.75	16.16	0.00	54.41	73.98	-19.57
8995.00	Peak	Н	-	-	-68.01	17.40	0.00	56.39	68.20	-11.81
11046.00	Average	н	-	-	-79.26	20.99	0.00	48.73	53.98	-5.25
11046.00	Peak	Η	-	-	-67.65	20.99	0.00	60.34	73.98	-13.64

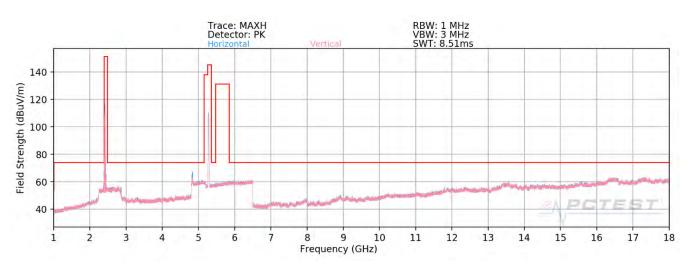
Table 7-67. Radiated Measurements (ANT1 5GHz – ANT2 2.4GHz)

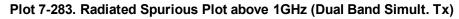
FCC ID: A3LSMT978U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 200 of 231
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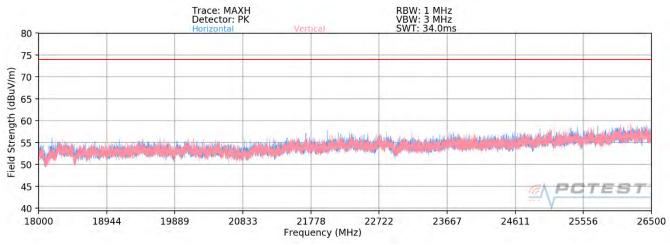


Description	2.4 GHz Emission	5 GHz Emission
Antenna	1, 2	1, 2
Channel	2	56
Operating Frequency (MHz)	2417	5280
Data Rate (Mbps)	MCS8	MCS8
Mode	802.11n	802.11n

 Table 7-68. Dual Band Simultaneous Transmission



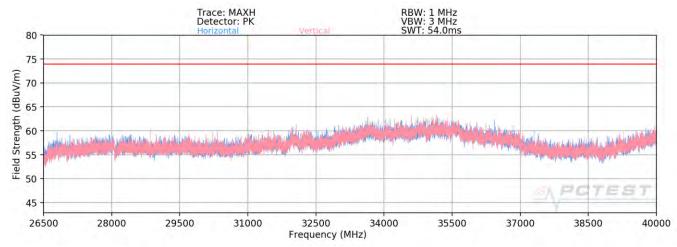




Plot 7-284. Radiated Spurious Plot 18GHz – 26.5GHz (Dual Band Simult. Tx)

FCC ID: A3LSMT978U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-285. Radiated Spurious Plot above 26.5GHz (Dual Band Simult. Tx)

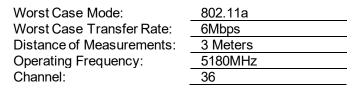
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
446.00	Peak	Н	-	-	-68.46	-10.50	0.00	28.04	68.20	-40.16
3309.00	Peak	Н	-	-	-66.18	7.26	0.00	48.08	68.20	-20.12
6172.00	Peak	Н	-	-	-67.81	13.16	0.00	52.35	68.20	-15.85
8143.00	Average	Н	-	-	-80.68	16.01	0.00	42.33	53.98	-11.65
8143.00	Peak	Н	-	-	-68.91	16.01	0.00	54.10	73.98	-19.88
9035.00	Average	Н	-	-	-79.76	18.09	0.00	45.33	53.98	-8.65
9035.00	Peak	Н	-	-	-67.96	18.09	0.00	57.13	73.98	-16.85
11006.00	Average	Н	-	-	-79.43	20.46	0.00	48.03	53.98	-5.95
11006.00	Peak	Н	-	-	-67.79	20.46	0.00	59.67	73.98	-14.31

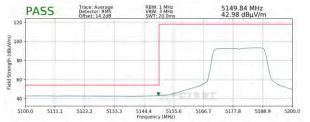
Table 7-69. Radiated Measurements (Dual Band Simult. Tx)

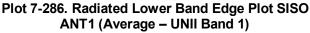
FCC ID: A3LSMT978U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 202 of 231
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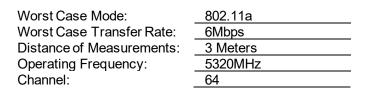


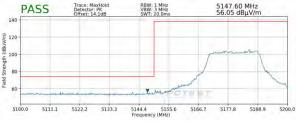
7.6.5 SISO Antenna-1 Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]



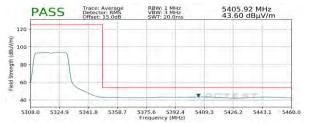




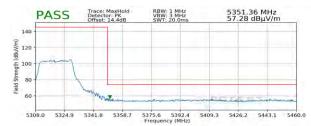




Plot 7-287. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)



Plot 7-288. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)

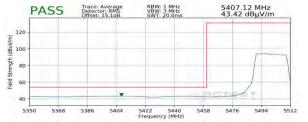


Plot 7-289. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element:	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 203 of 231
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Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100

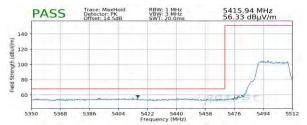


Plot 7-290. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)

Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	5825MHz
Channel:	165



Plot 7-292. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

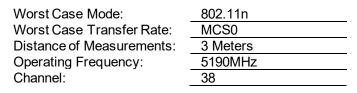


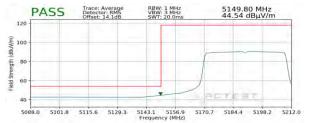
Plot 7-291. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)

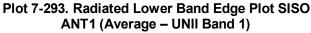
FCC ID: A3LSMT978U	PCTEST Proud to be part of @ eleman:	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 204 of 231
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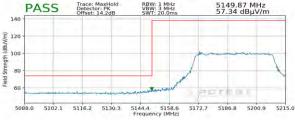
7.6.6 SISO Antenna-1 Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]



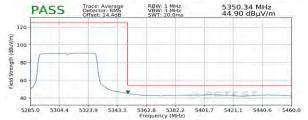




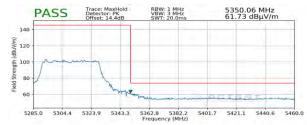
Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-294. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)



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

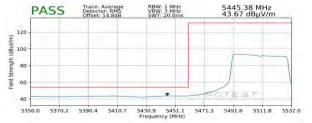


Plot 7-296. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element:	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 205 of 231
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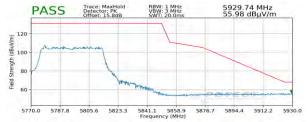


Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5510MHz
Channel:	102

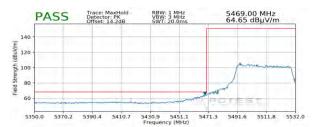


Plot 7-297. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)

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



Plot 7-299. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

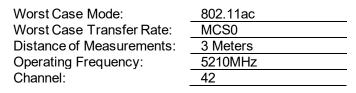


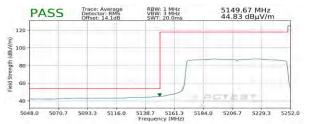
Plot 7-298. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)

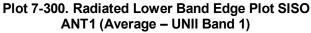
FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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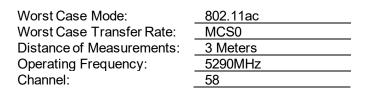


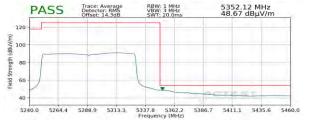
7.6.7 SISO Antenna-1 Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]



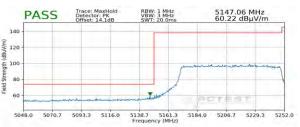




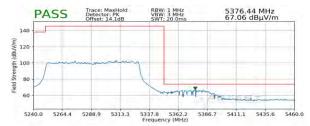




Plot 7-302. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)



Plot 7-301. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

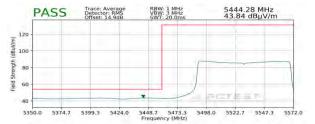


Plot 7-303. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

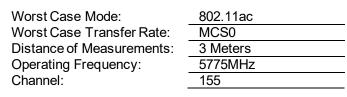
FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element:	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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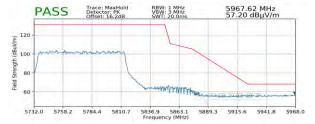


Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5530MHz
Channel:	106

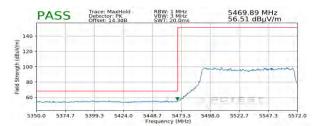


Plot 7-304. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)





Plot 7-306. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

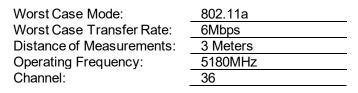


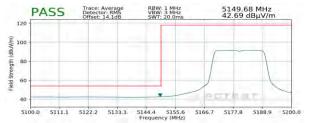
Plot 7-305. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)

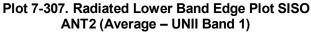
FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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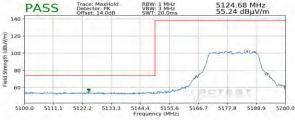
7.6.8 SISO Antenna-2 Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]



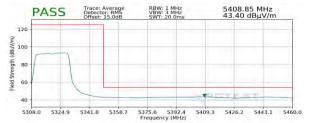




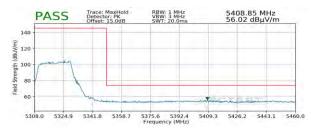
Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



Plot 7-308. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)



Plot 7-309. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)

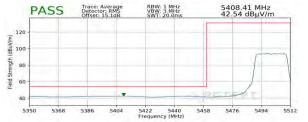


Plot 7-310. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element:	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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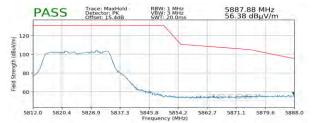


Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100

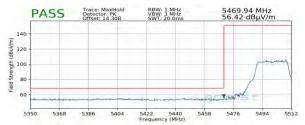


Plot 7-311. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)

Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	5825MHz
Channel:	165



Plot 7-313. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)

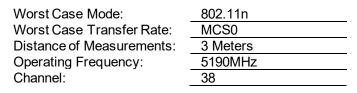


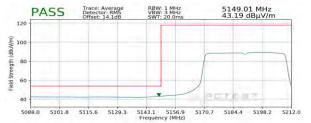
Plot 7-312. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)

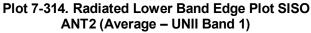
FCC ID: A3LSMT978U		MEASUREMENT REPORT (CERTIFICATION)	MSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 210 of 231
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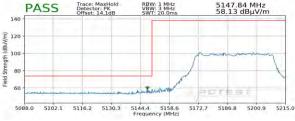
7.6.9 SISO Antenna-2 Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]



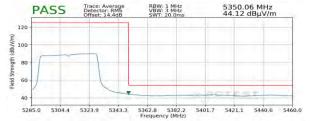


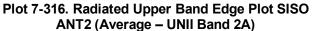


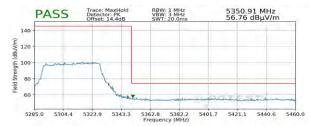
Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-315. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)





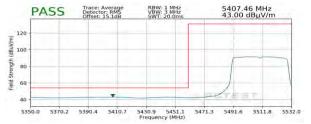


Plot 7-317. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)

FCC ID: A3LSMT978U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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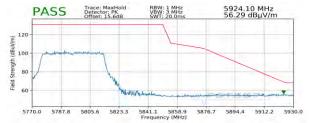


Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5510MHz
Channel:	102



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

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



Plot 7-320. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)

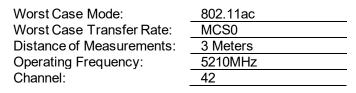


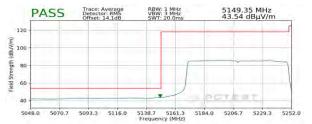
Plot 7-319. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)

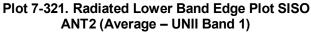
FCC ID: A3LSMT978U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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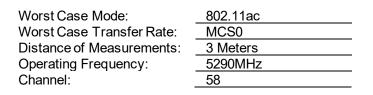


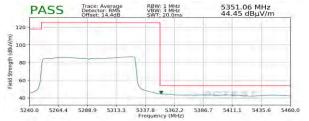
7.6.10 SISO Antenna-2 Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

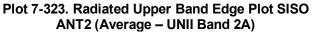


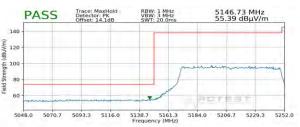




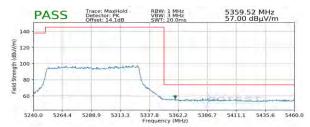








Plot 7-322. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)

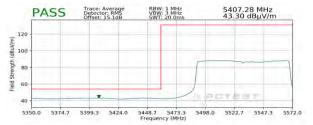


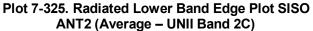
Plot 7-324. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)

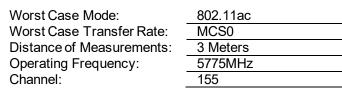
FCC ID: A3LSMT978U	PCTEST Proud to be part of @ eleman:	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 213 of 231
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Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5530MHz
Channel:	106

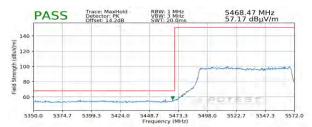








Plot 7-327. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)

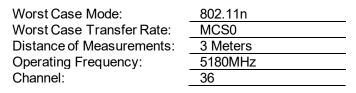


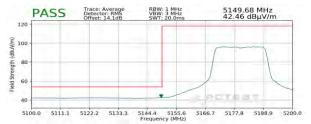
Plot 7-326. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)

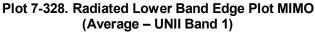
FCC ID: A3LSMT978U		MEASUREMENT REPORT (CERTIFICATION)	AMSUNG	Approved by: Quality Manager
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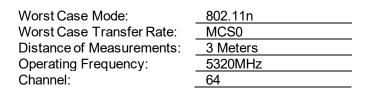


7.6.11 MIMO Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]











RBW: 1 MHz VBW: 3 MHz SWT: 20.0ms 5149.20 MHz 56.20 dBµV/m

Trace: MaxHold Detector: PK Offset: 14.1dB

PASS

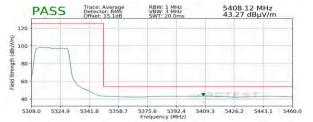
140

(m//n

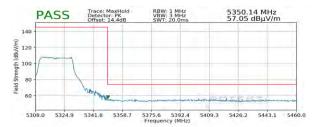
dBu

Field

Plot 7-329. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)



Plot 7-330. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)

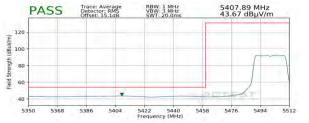


Plot 7-331. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element:	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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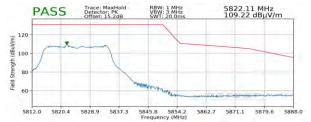


Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100

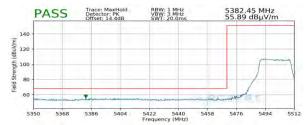


Plot 7-332. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)

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



Plot 7-334. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

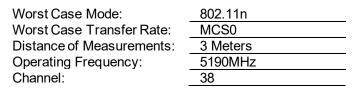


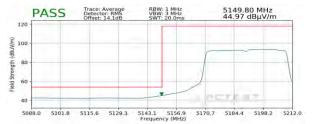
Plot 7-333. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

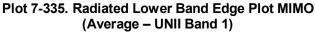
FCC ID: A3LSMT978U	PCTEST Proud to be part of @ eleman:	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 216 of 231
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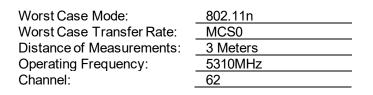


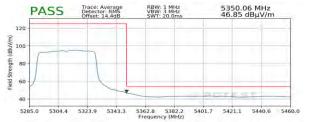
7.6.12 MIMO Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]







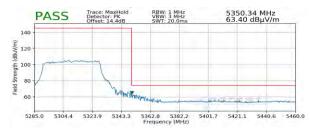








Plot 7-336. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

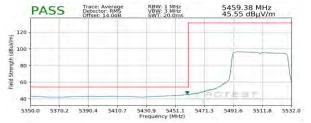


Plot 7-338. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

FCC ID: A3LSMT978U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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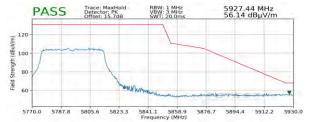


Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5510MHz
Channel:	102

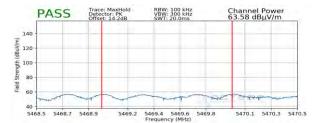


Plot 7-339. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)

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



Plot 7-341. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

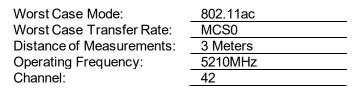


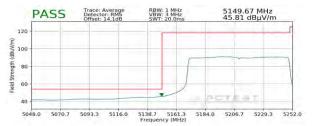
Plot 7-340. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

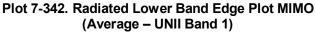
FCC ID: A3LSMT978U	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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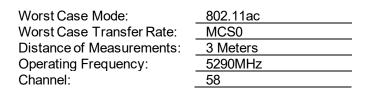


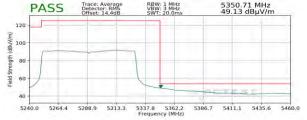
7.6.13 MIMO Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]



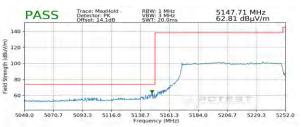




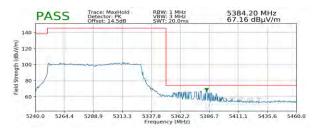








Plot 7-343. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

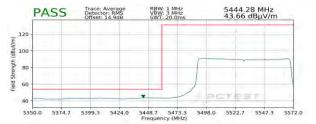


Plot 7-345. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

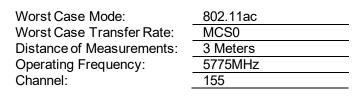
FCC ID: A3LSMT978U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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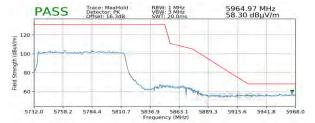


Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5530MHz
Channel:	106

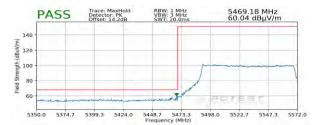


Plot 7-346. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)





Plot 7-348. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)



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

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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 must not exceed the limits shown in Table 7-70 per Section 15.209.

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 7-70. 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

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ eleman:	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Test Setup

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

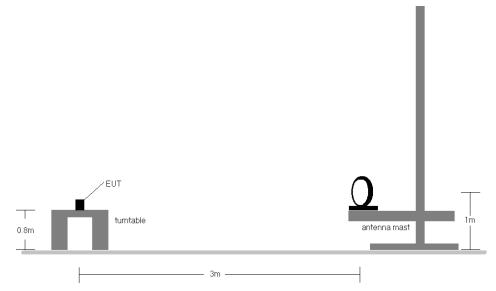


Figure 7-6. Radiated Test Setup < 30MHz

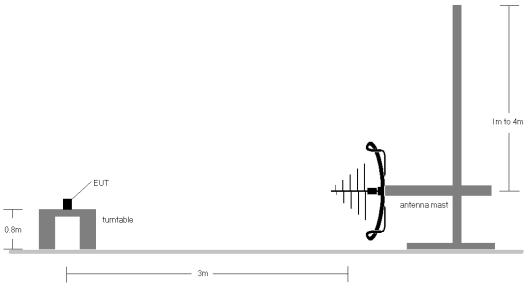


Figure 7-7. Radiated Test Setup < 1GHz

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element:	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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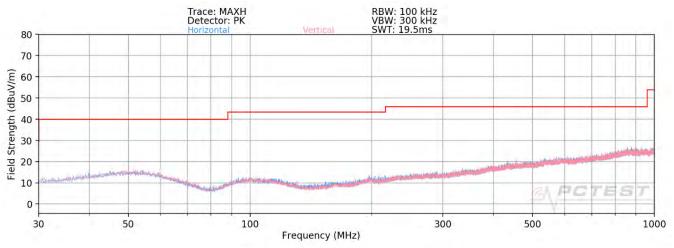
Test Notes

- 1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-70.
- 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.
- 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 7-349. Radiated Spurious Plot below 1GHz SISO MIMO (802.11a - U3 Ch. 157)

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ eleman:	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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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 7-71. 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.

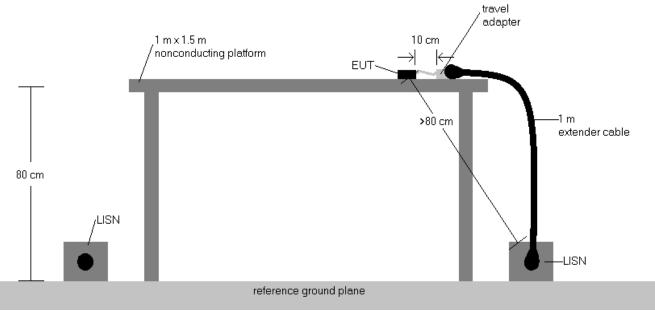


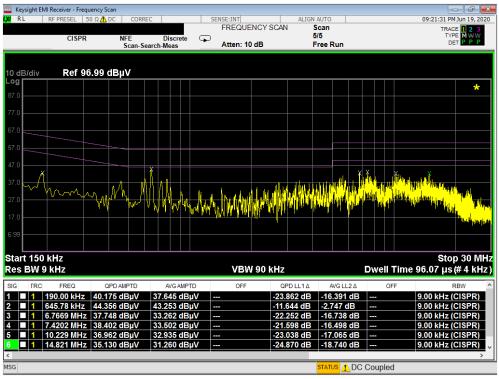
Figure 7-8. Test Instrument & Measurement Setup

Test Notes

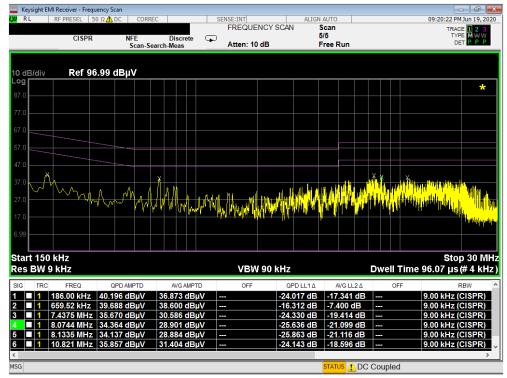
- 1. All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
- 2. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
- 3. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- 4. QP/AV Level (dB μ V) = QP/AV Analyzer/Receiver Level (dB μ V) + 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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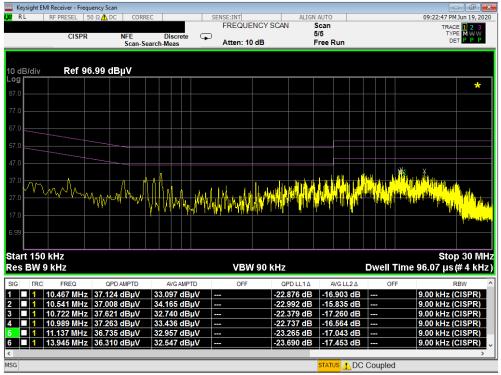




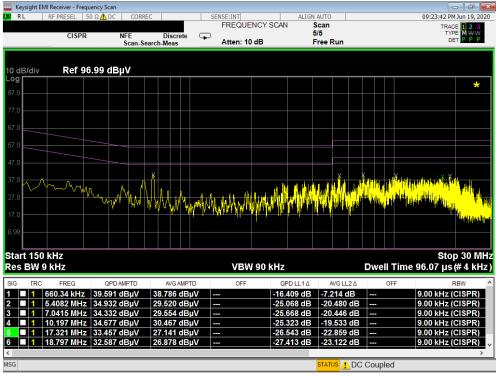


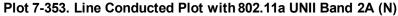
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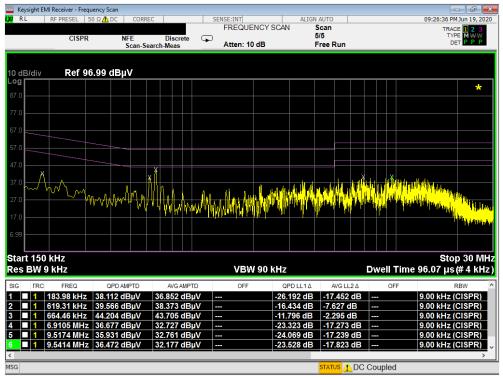
Plot 7-352. Line Conducted Plot with 802.11a UNII Band 2A (L1)



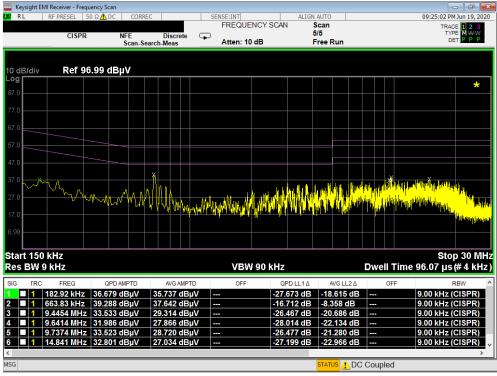


FCC ID: A3LSMT978U	PCTEST Proud to be part of @ eleman:	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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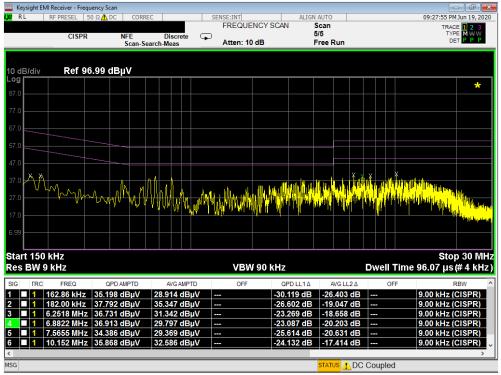
Plot 7-354. Line Conducted Plot with 802.11a UNII Band 2C (L1)



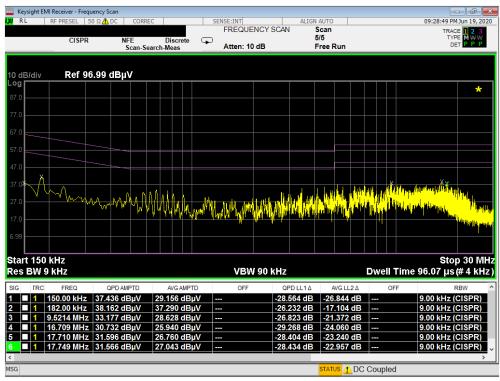


FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element:	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 229 of 231
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Plot 7-356. Line Conducted Plot with 802.11a UNII Band 3 (L1)





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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Tablet FCC ID: A3LSMT978U** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

FCC ID: A3LSMT978U	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	UNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 231 of 231
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