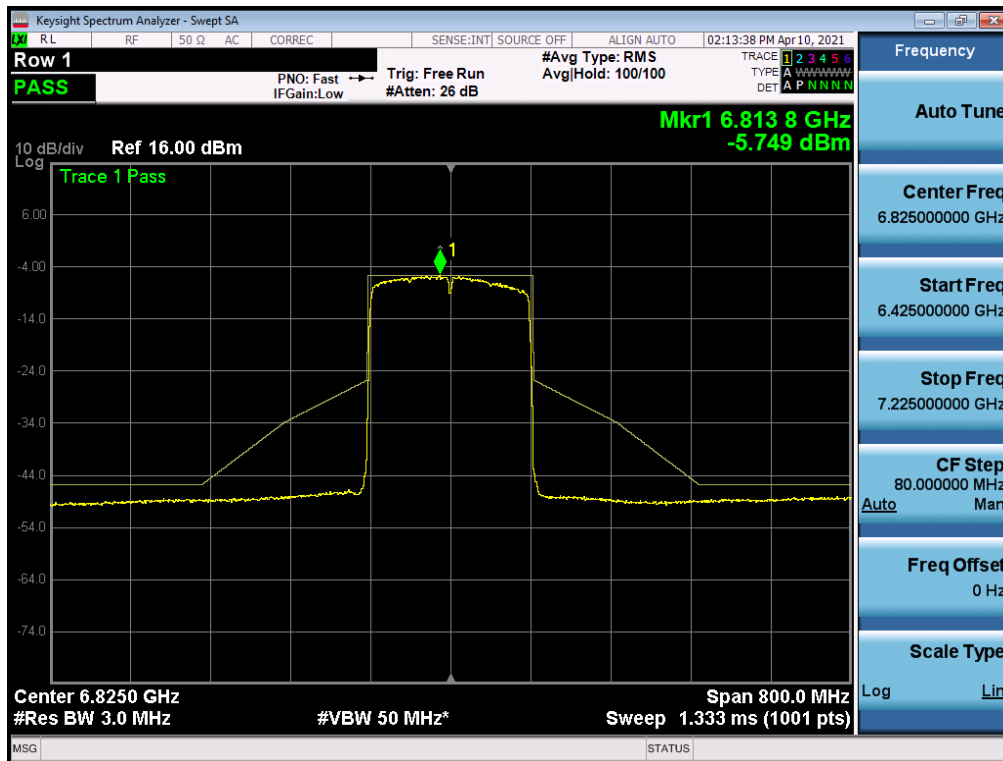


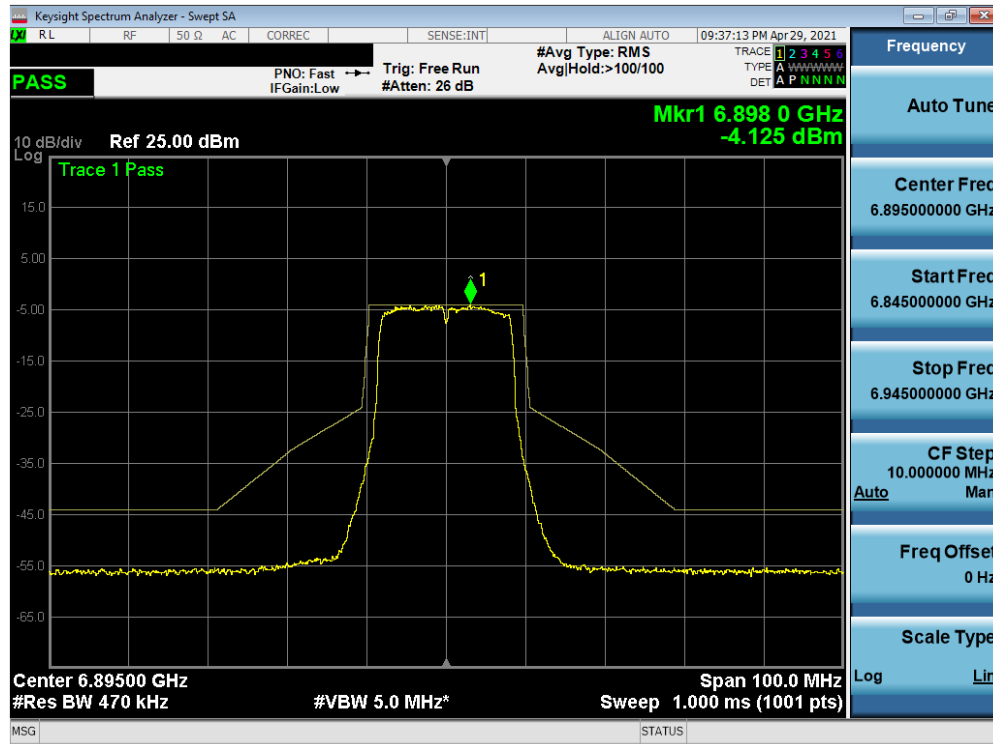
Plot 7-335. In-Band Emission Measurement Plot MIMO ANT2 (160MHz 802.11ax (UNII Band 7) – Ch. 143)



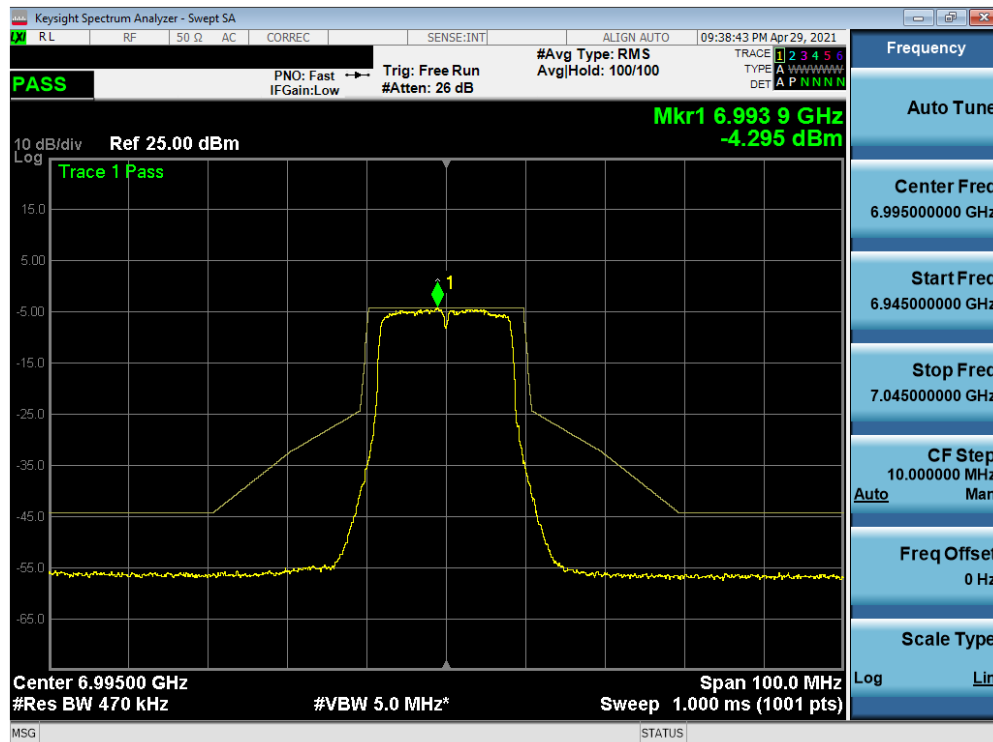
Plot 7-336. In-Band Emission Measurement Plot MIMO ANT2 (160MHz 802.11ax (UNII Band 7) – Ch. 175)

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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MIMO Antenna-2 In-Band Emission Measurements - (UNII Band 8)

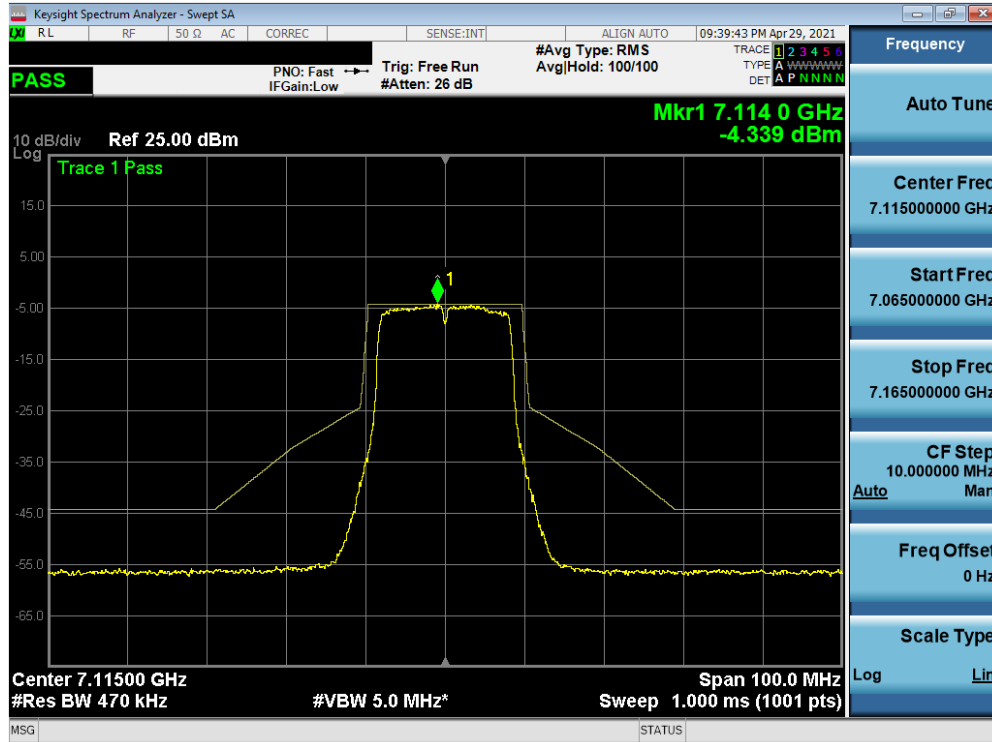


Plot 7-337. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11a (UNII Band 8) – Ch. 189)

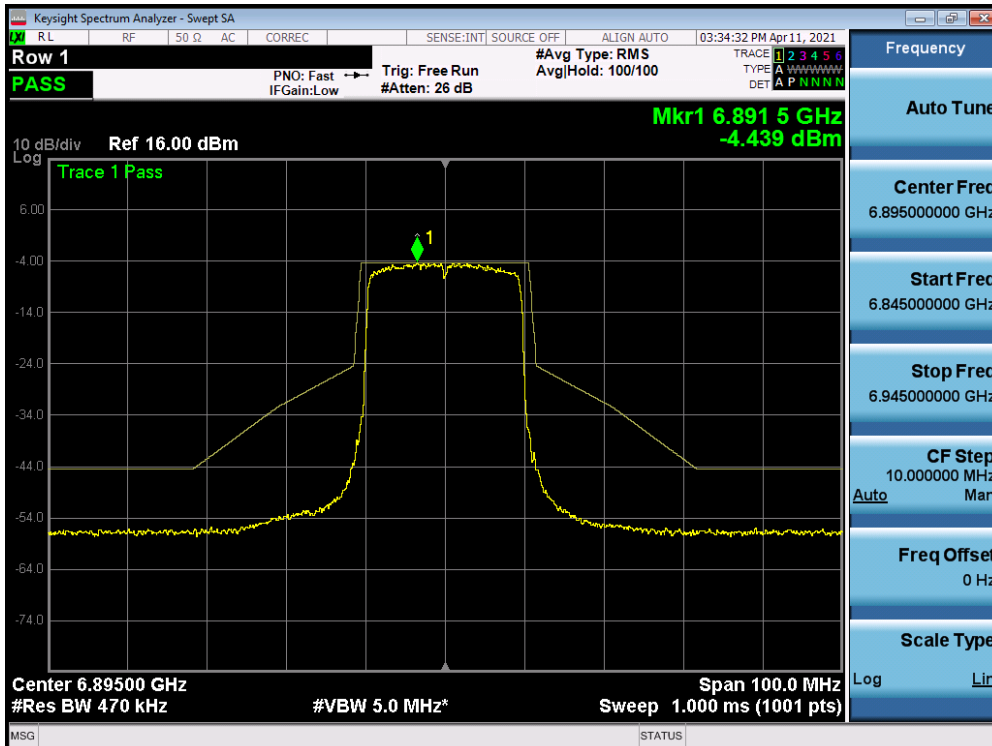


Plot 7-338. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11a (UNII Band 8) – Ch. 209)

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 207 of 261

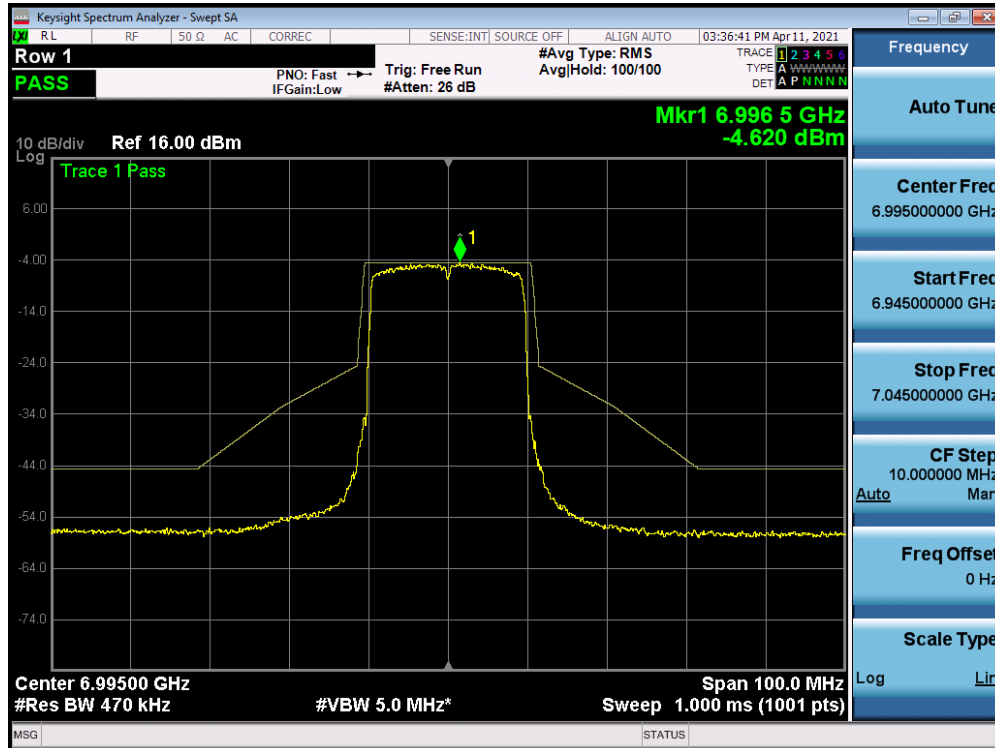


Plot 7-339. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11a (UNII Band 8) – Ch. 233)

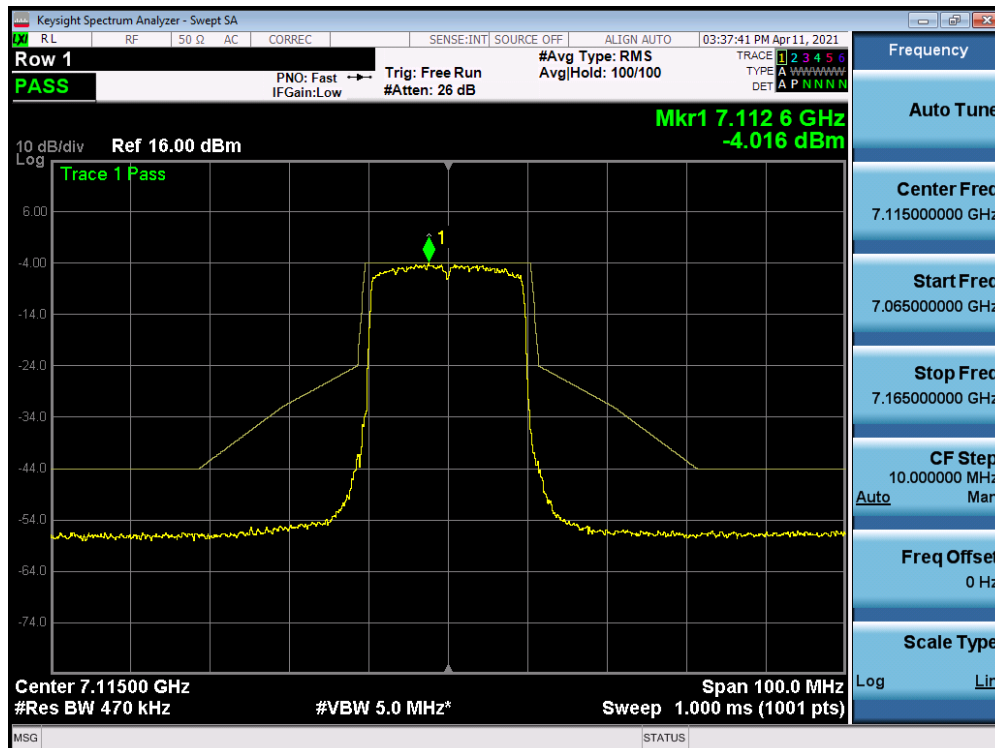


Plot 7-340. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11ax (UNII Band 8) – Ch. 189)

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 208 of 261

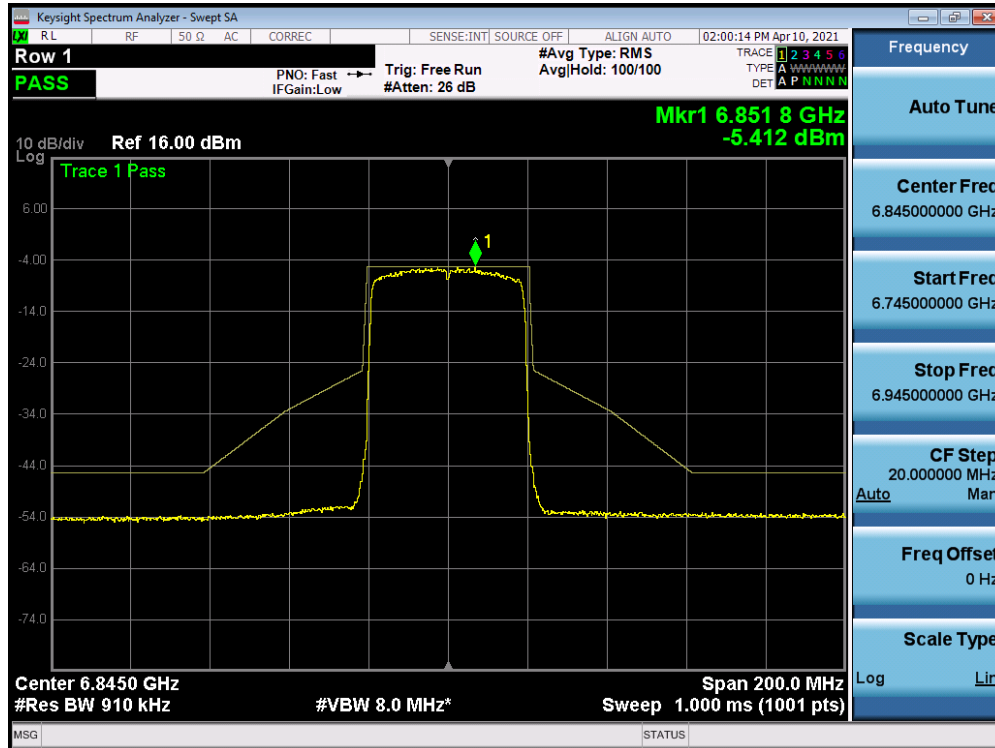


Plot 7-341. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11ax (UNII Band 8) – Ch. 209)

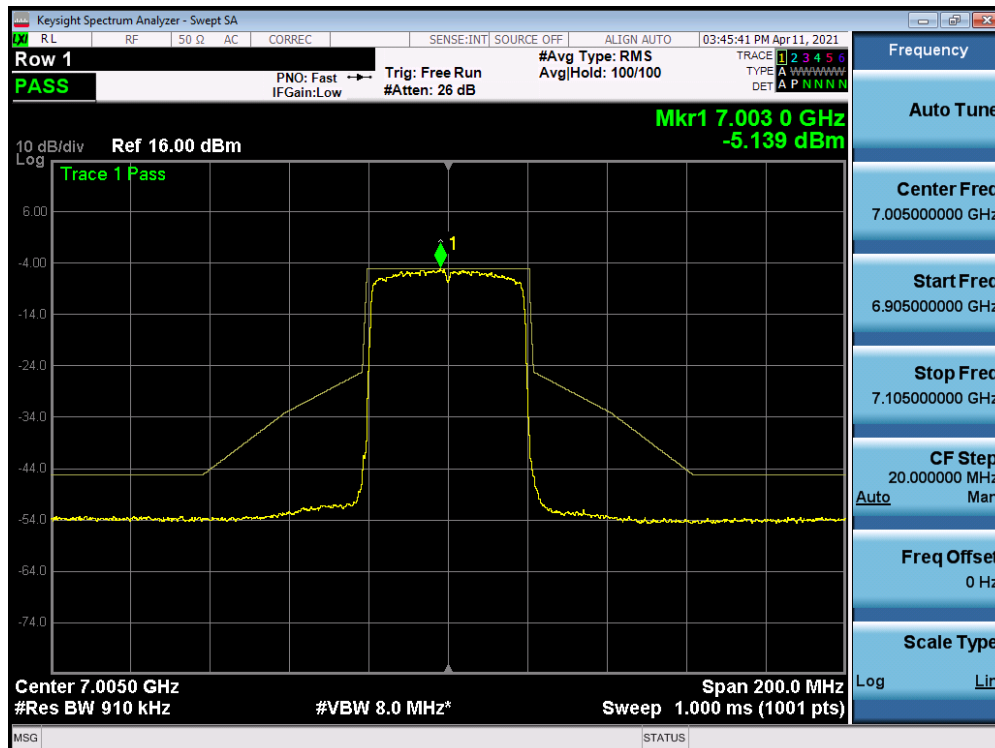


Plot 7-342. In-Band Emission Measurement Plot MIMO ANT2 (20MHz 802.11ax (UNII Band 8) – Ch. 233)

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 209 of 261

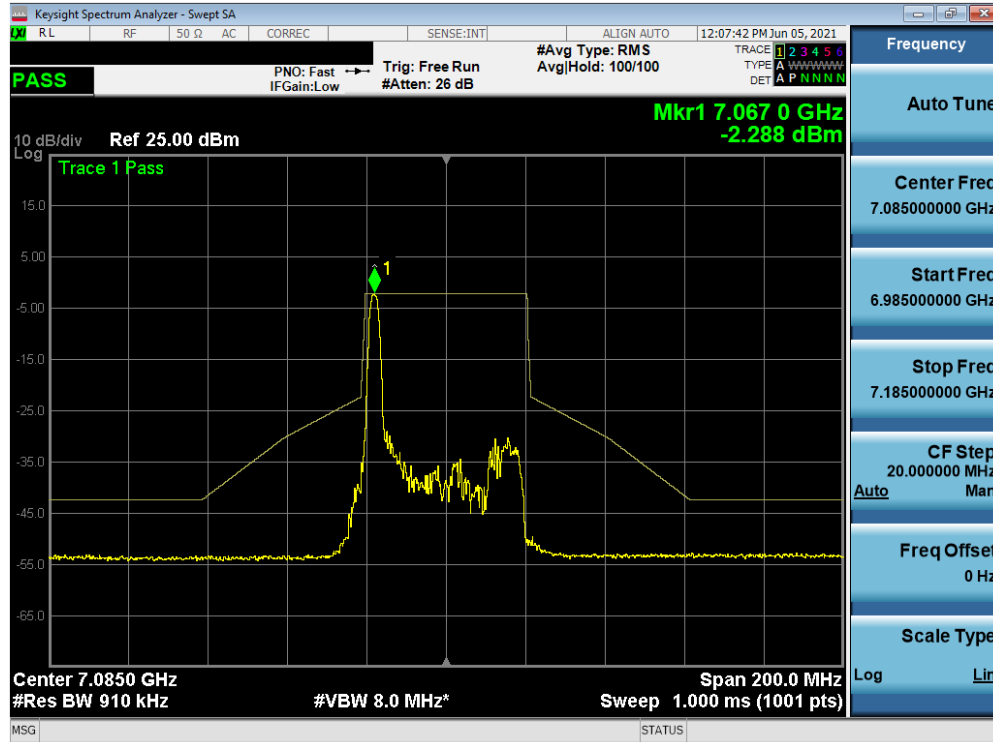


Plot 7-343. In-Band Emission Measurement Plot MIMO ANT2 (40MHz 802.11ax (UNII Band 8) – Ch. 187)

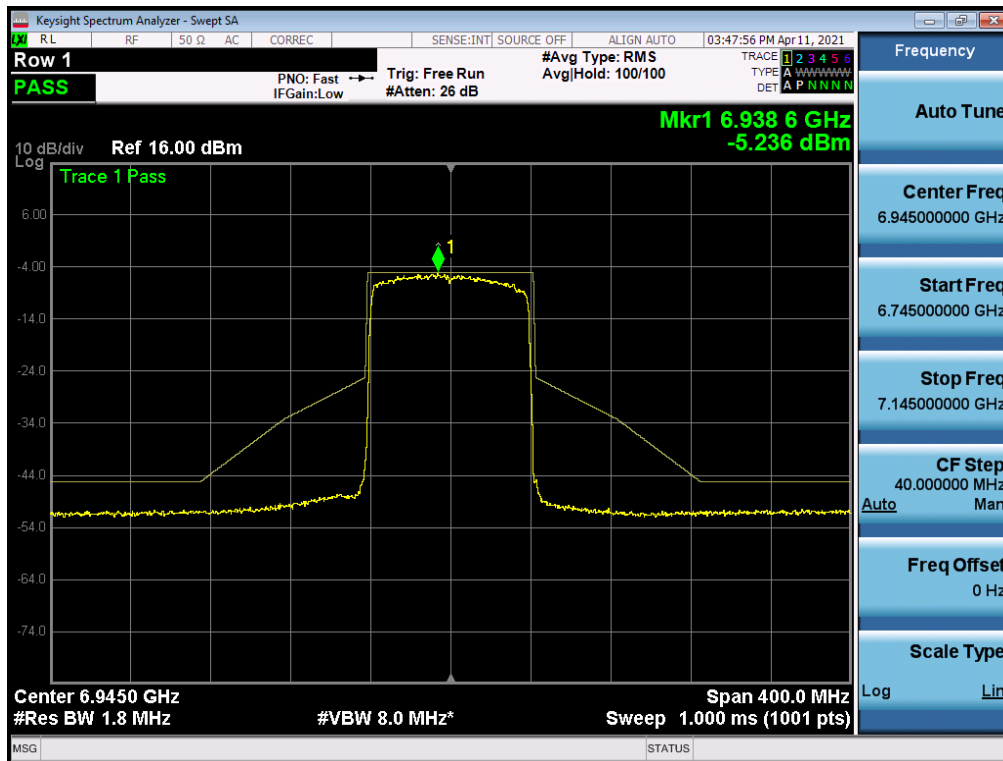


Plot 7-344. In-Band Emission Measurement Plot MIMO ANT2 (40MHz 802.11ax (UNII Band 8) – Ch. 211)

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 210 of 261

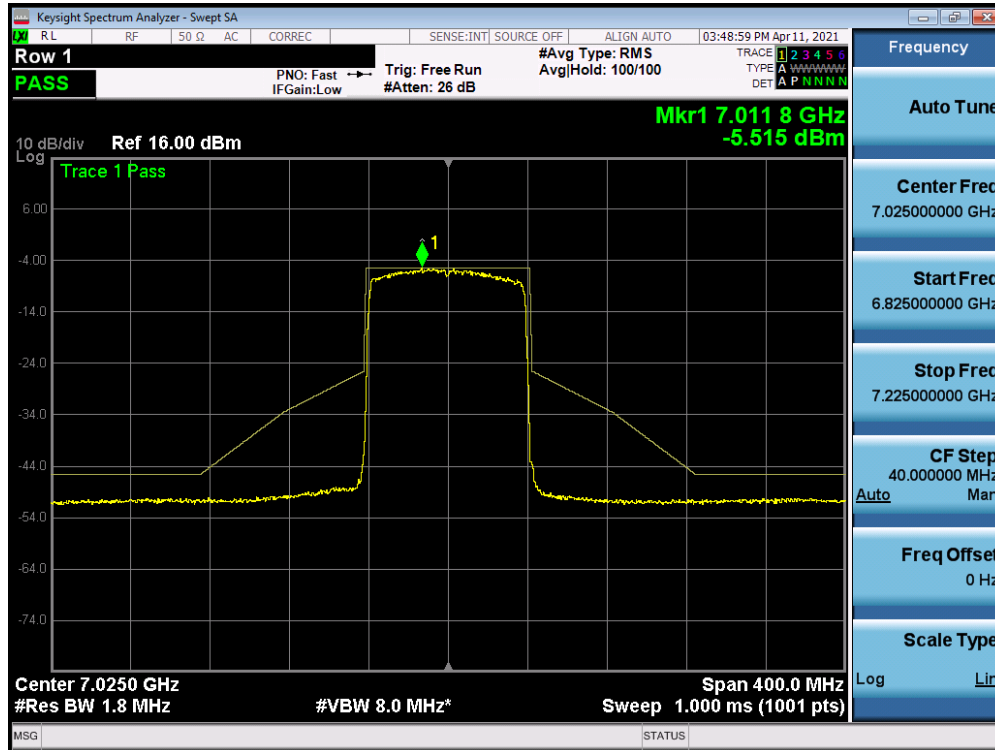


Plot 7-345. In-Band Emission Measurement Plot MIMO ANT2 (40MHz 802.11ax (UNII Band 8) – Ch. 227)

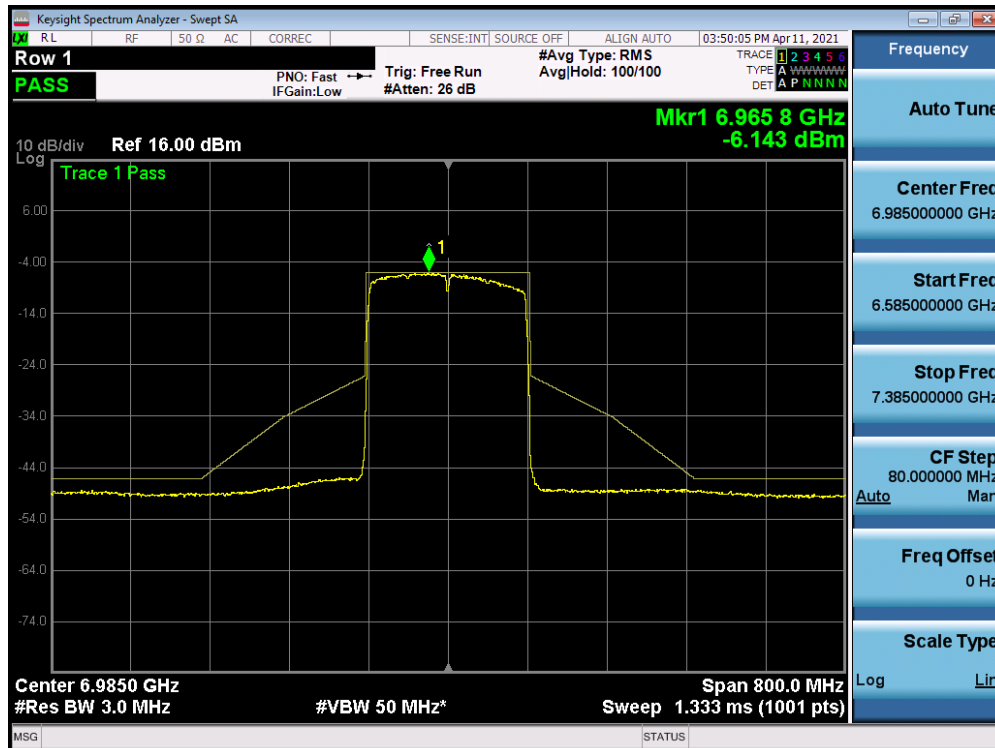


Plot 7-346. In-Band Emission Measurement Plot MIMO ANT2 (80MHz 802.11ax (UNII Band 8) – Ch. 199)

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 211 of 261



Plot 7-347. In-Band Emission Measurement Plot MIMO ANT2 (80MHz 802.11ax (UNII Band 8) – Ch. 215)



Plot 7-348. In-Band Emission Measurement Plot MIMO ANT2 (160MHz 802.11ax (UNII Band 8) – Ch. 207)

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 212 of 261

7.6 Contention Based Protocol – 802.11a/ax §15.407(d)(6)

Test Overview and Limit

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed indoor low-power devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel.

Test Procedure Used

ANSI C63.10-2013 – Section 12.3.2.2
KDB 987594 D02

Test Settings

- 1) Using the AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- 2) Connect the AWGN signal source to antenna 1, as shown in Figure 3, and transmit the signal (RF ON).
- 3) Using signal analyzer 1 and antenna 2, measure the AWGN signal power level. Align antenna 2 and antenna 1 to maximize emission.
- 4) Using equation 1, correct the measured power P_{MEAS} by the gain of antenna 2, G_2 and all cable losses and attenuations L to obtain the AWGN signal power level at antenna 2, P_2 .
- 5) Set the corrected power P_2 to an extremely low level (more than 20 dB below the -62 dBm threshold).
- 6) Place the EUT exactly where antenna 2 was. Configure the EUT to transmit a constant duty cycle.
- 7) Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
- 8) Set the signal analyzer 1 center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of EUT.
- 9) Monitor the signal analyzer 1 to verify if AWGN signal has been detected and EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
- 10) Determine and record the AWGN signal power level at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect the AWGN signal with 90% (or better) level of certainty.
- 11) Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

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Test Setup

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



Figure 7-5. Test Instrument & Measurement Setup – Power Measurement



Figure 7-6. Test Instrument & Measurement Setup – Detection Threshold Measurement

Test Notes

1. Per guidance from KDB 987594 D02, contention based protocol was tested using an AWGN signal with a bandwidth of 10MHz (see Plot 7-349). The amplitude of the signal was increased until detected by the EUT, signaled by the ceasing of transmission (see Plot 7-350), marker indicates the point at which the AWGN signal is introduced.

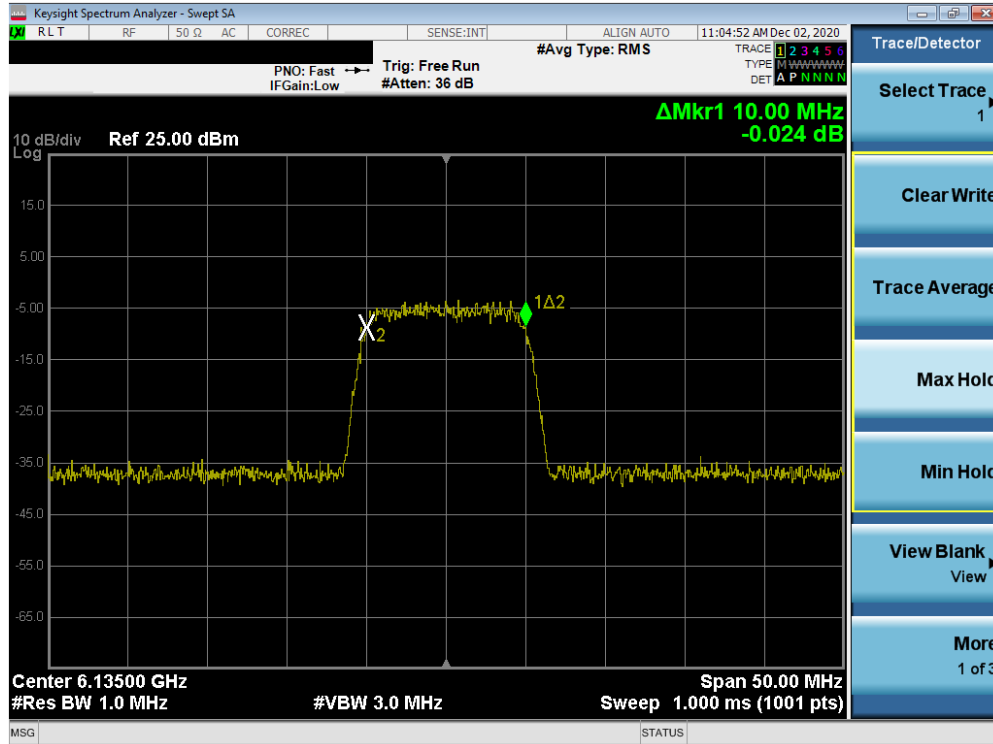
$$P_2 = P_{meas} + L - G_2$$

$$P_2 = -53.21 + 1.92 - 10.72$$

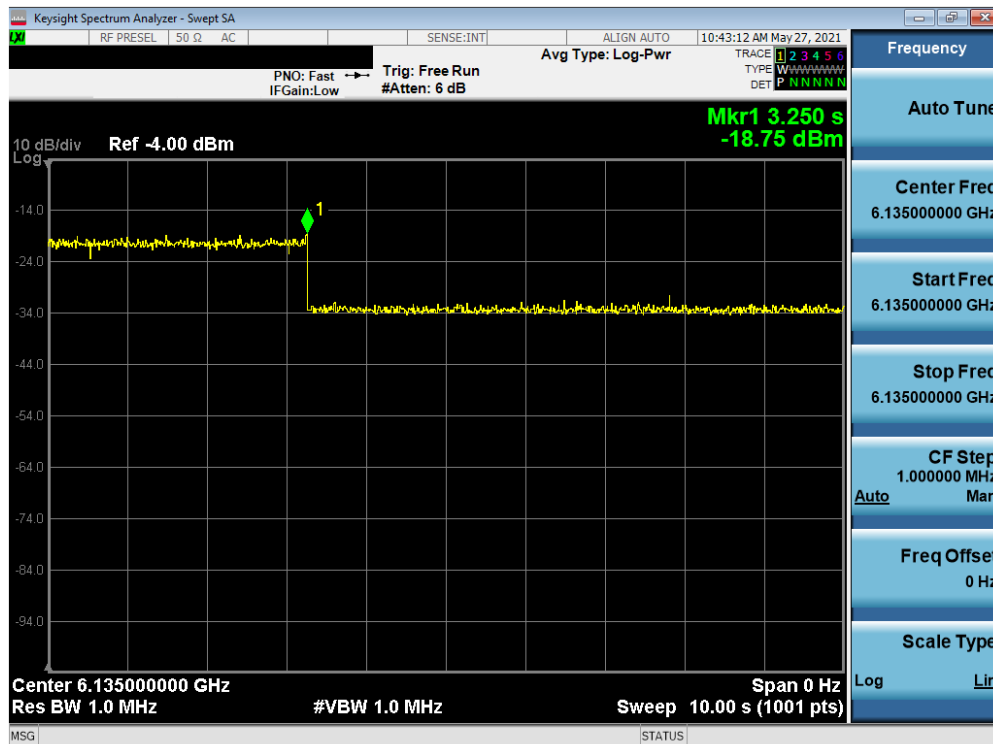
$$P_2 = -62.01dBm$$

Equation 7-1. Incumbent Detection Level Calculation

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Plot 7-349. AWGN Sample Signal



Plot 7-350. Contention Based Protocol Timing Plot

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Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	Detection Power Level [dBm]	Detection Limit [dBm]	Margin [dB]
UNII Band 5	37	6135	20	6135	-66.22	-62.0	-4.22
	47	6185	160	6110	-66.79	-62.0	-4.79
				6175	-67.13	-62.0	-5.13
				6240	-66.12	-62.0	-4.12
UNII Band 6	101	6455	20	6455	-68.83	-62.0	-6.83
	111	6505	160	6435	-65.70	-62.0	-3.70
				6495	-65.12	-62.0	-3.12
				6575	-65.44	-62.0	-3.44
UNII Band 7	149	6695	20	6695	-80.02	-62.0	-18.02
	143	6665	160	6595	-78.95	-62.0	-16.95
				6655	-78.37	-62.0	-16.37
				6735	-77.35	-62.0	-15.35
UNII Band 8	213	7015	20	7015	-71.11	-62.0	-9.11
	207	6985	160	6915	-69.85	-62.0	-7.85
				6975	-69.72	-62.0	-7.72
				7055	-69.32	-62.0	-7.32

Table 7-10. Contention Based Protocol – Incumbent Detection Results

CBP Detection (1 = Detection, Blank = No Detection)															
Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
UNII Band 5	37	6135	20	6135	1	1	1	1	1	1	1	1	1	1	100
	47	6185	160	6110	1	1	1	1	1	1	1	1	1	1	100
				6175	1	1	1	1	1	1	1	1	1	1	100
				6240	1	1	1	1	1	1	1	1	1	1	100
UNII Band 6	101	6455	20	6455	1	1	1	1	1	1	1	1	1	1	100
	111	6505	160	6435	1	1	1	1	1	1	1	1	1	1	100
				6495	1	1	1	1	1	1	1	1	1	1	100
				6575	1	1	1	1	1	1	1	1	1	1	100
UNII Band 7	149	6695	20	6695	1	1	1	1	1	1	1	1	1	1	100
	143	6665	160	6595	1	1	1	1	1	1	1	1	1	1	100
				6655	1	1	1	1	1	1	1	1	1	1	100
				6735	1	1	1	1	1	1	1	1	1	1	100
UNII Band 8	213	7015	20	7015	1	1	1	1	1	1	1	1	1	1	100
	207	6985	160	6915	1	1	1	1	1	1	1	1	1	1	100
				6975	1	1	1	1	1	1	1	1	1	1	100
				7055	1	1	1	1	1	1	1	1	1	1	100

Table 7-11. Contention Based Protocol – Incumbent Detection Trial Results

FCC ID: A3LSMF926B	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.7 Radiated Spurious Emission Measurements – Above 1GHz

§15.205, §15.209

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, 802.11ax (20/40/80/160MHz), 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 5.925-7.125 GHz band: All emissions outside of the 5.925-7.125 GHz band shall not exceed an EIRP of -27 dBm/MHz.

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-12. 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

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

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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.

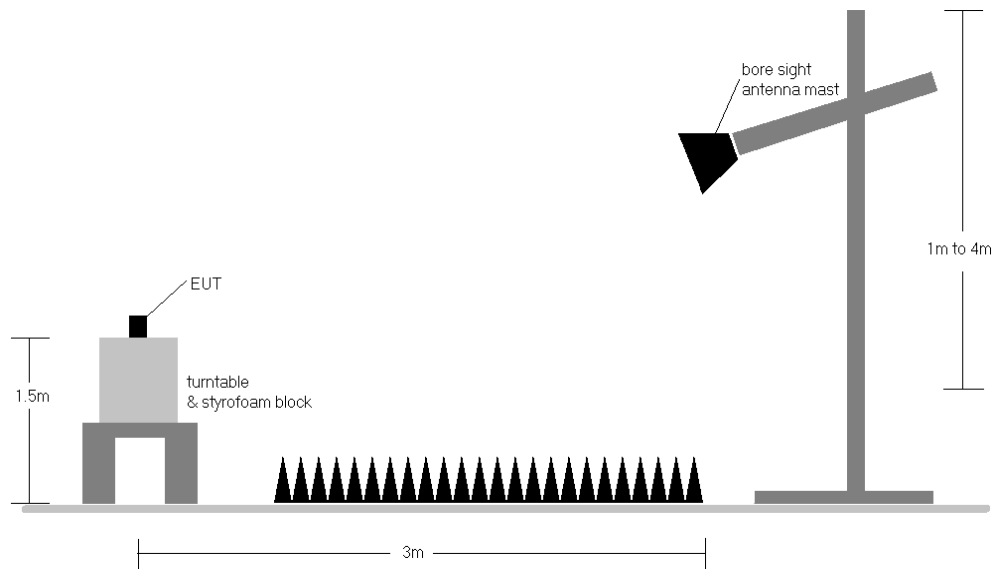


Figure 7-7. Test Instrument & Measurement Setup

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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 the limit shown in Table 7-12.
2. All spurious emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-10. All spurious emissions that do not lie in a restricted band are subject to an average 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. All spurious emissions that do not lie in a restricted band are subject to a peak limit not to exceed 20dB of the average limit [68.2dBμV/m]. If a peak measurement passes the average limit it was determined no further investigation is necessary.
4. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
5. This unit was tested with its standard battery.
6. 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.
7. 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.
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.
10. In the case where a peak-detector measurement passed the given RMS limit it was determined sufficient to demonstrate compliance.

Sample Calculations

Determining Spurious Emissions Levels

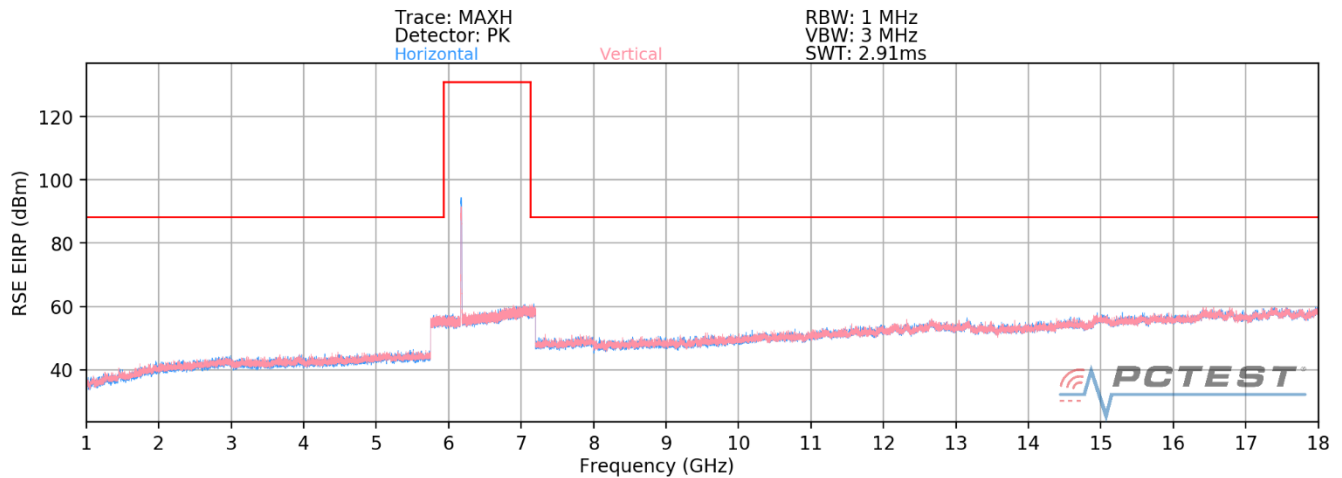
- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dBμV/m] – Limit [dBμV/m]

Radiated Band Edge Measurement Offset

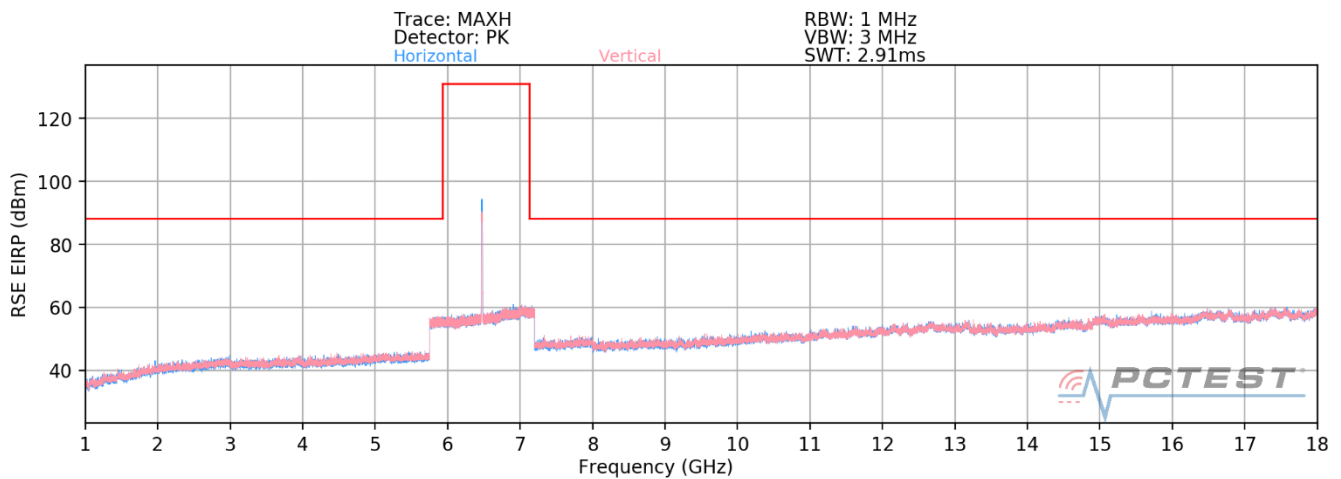
- The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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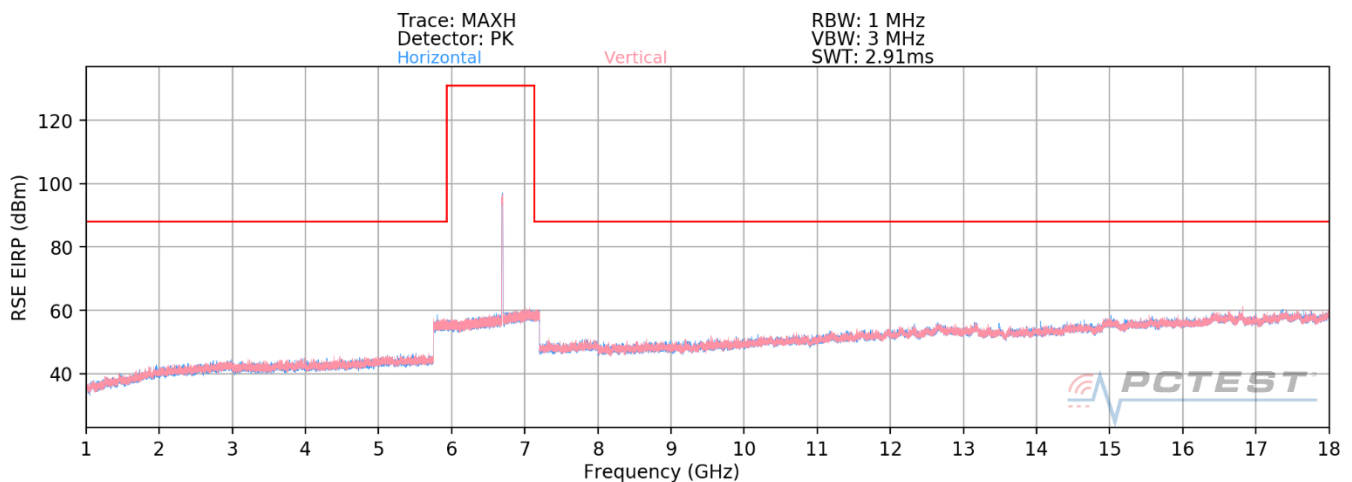
7.6.1 SISO Antenna-1 Radiated Spurious Emission Measurements



Plot 7-351. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – UNII Band 5– Ch.45) - OPEN

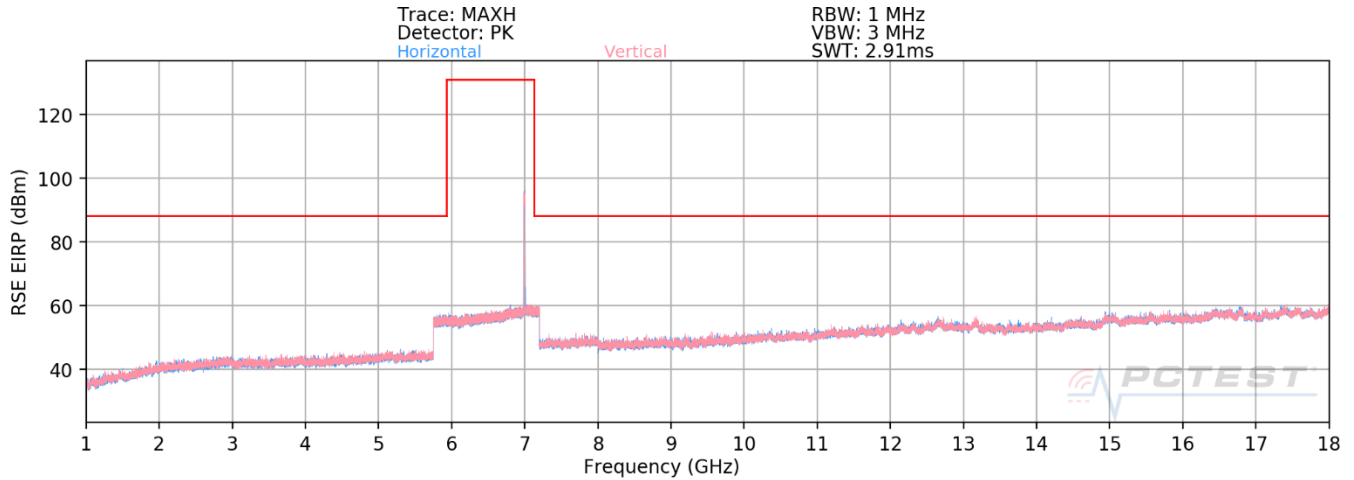


Plot 7-352. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a– UNII Band 6 - Ch.105) - OPEN

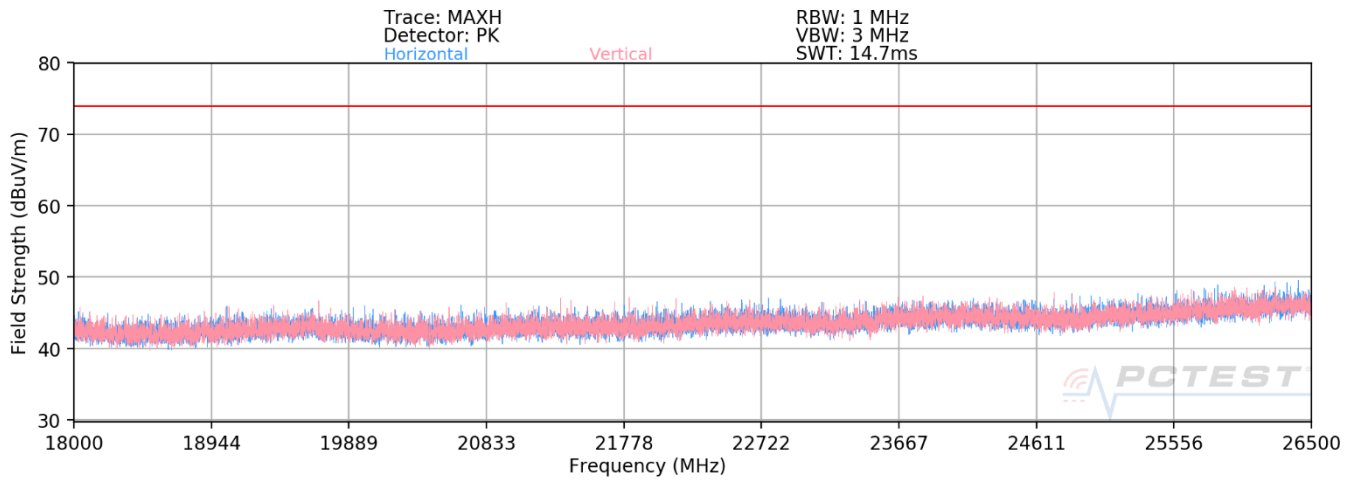


Plot 7 314. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a– UNII Band 7 –Ch.149) - OPEN

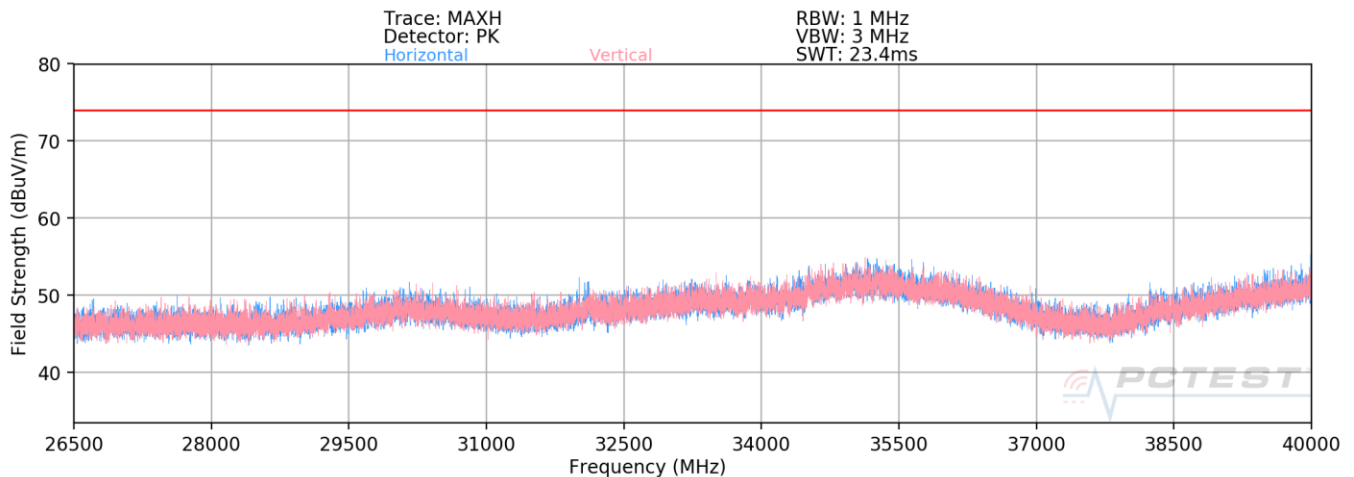
FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7 314. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a– UNII Band 8 –Ch.209) – OPEN

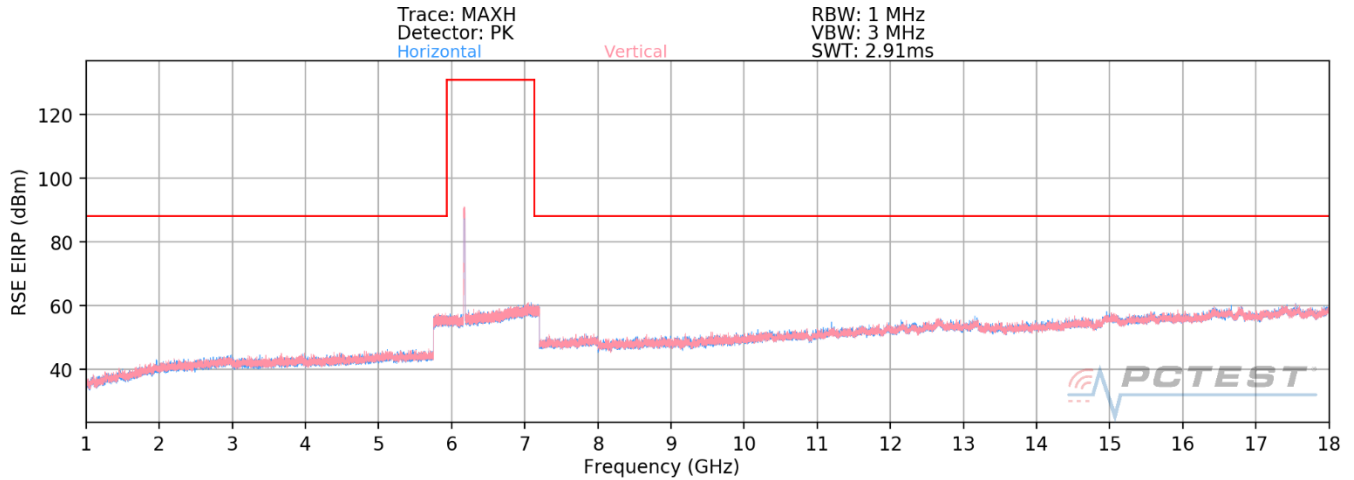


Plot 7-353. Radiated Spurious Plot above 18GHz - 26.5GHz SISO ANT1 (802.11a) – OPEN

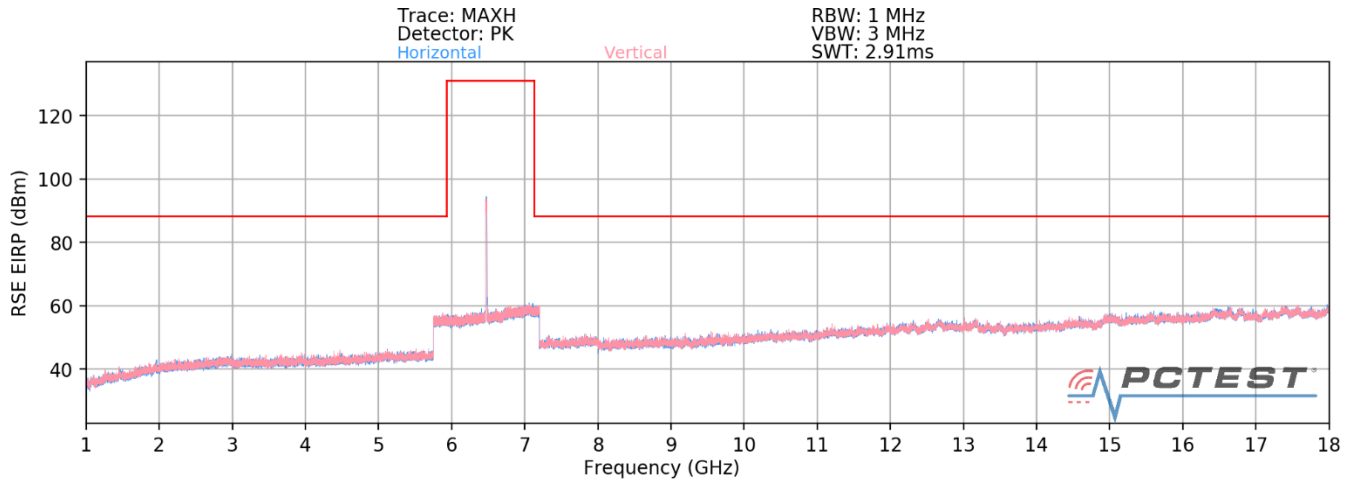


Plot 7-354. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11a) - OPEN

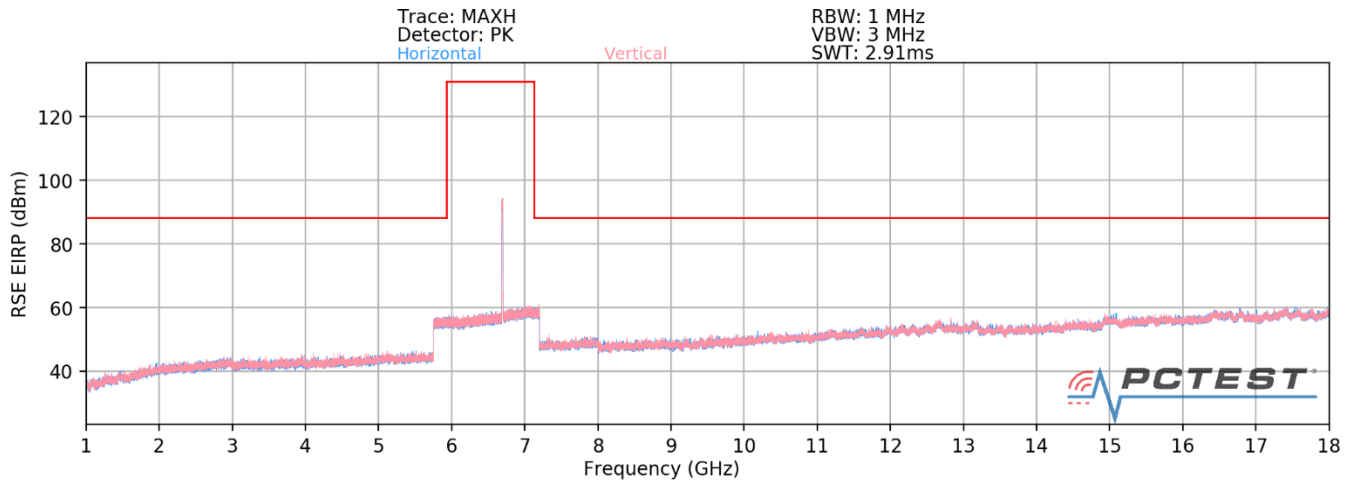
FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-355. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – UNII Band 5– Ch.45) - CLOSED

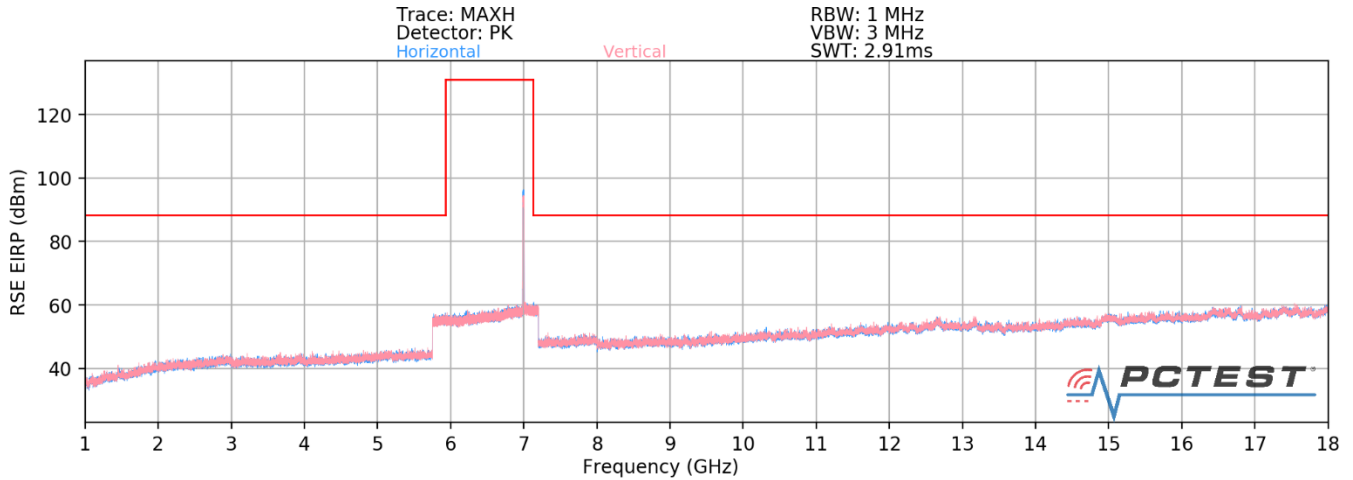


Plot 7-356. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a– UNII Band 6 - Ch.105) - CLOSED

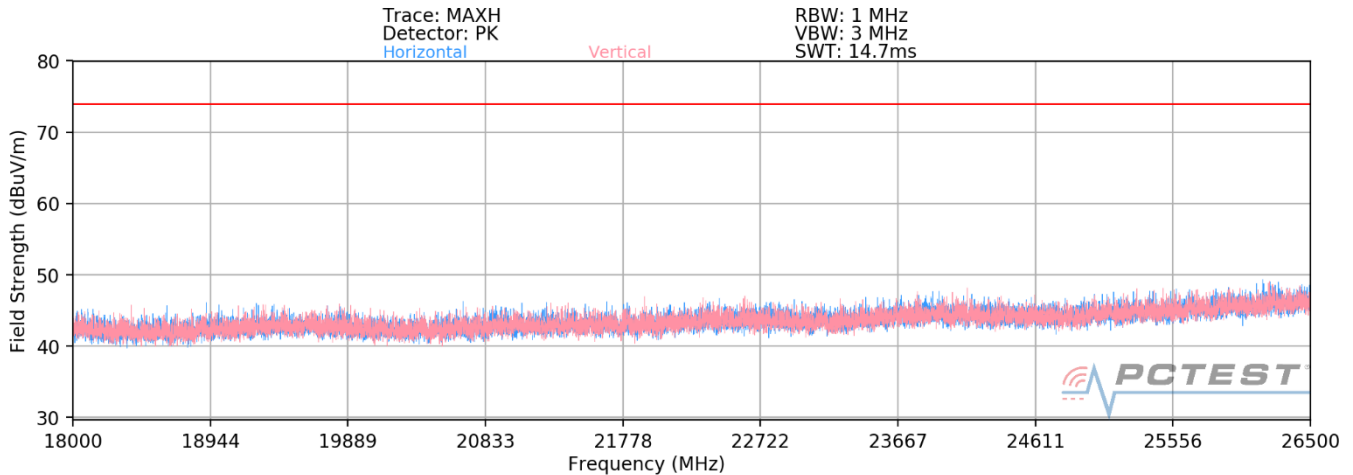


Plot 7 314. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a– UNII Band 7 –Ch.149) - CLOSED

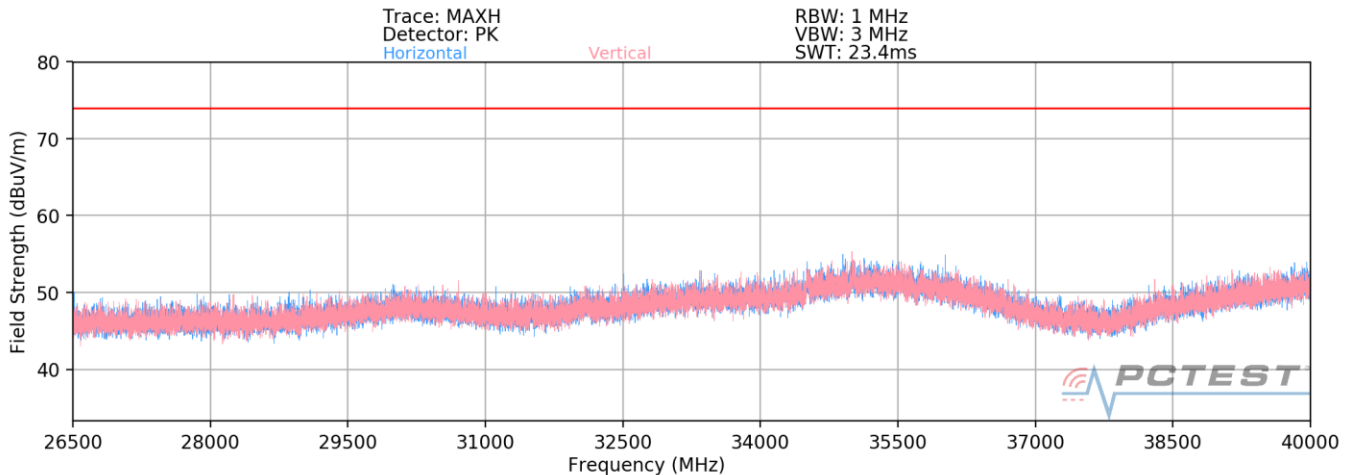
FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 222 of 261



Plot 7 314. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a- UNII Band 8 -Ch.209) - CLOSED



Plot 7-357. Radiated Spurious Plot above 18GHz - 26.5GHz SISO ANT1 (802.11a) - CLOSED



Plot 7-358. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11a) - CLOSED

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 - 06/08/2021	EUT Type: Portable Handset		Page 223 of 261

SISO Antenna-1 Radiated Spurious Emission Measurements

§15.407(b) §15.205 & §15.209

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5935MHz
Channel: 2

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]
11870.00	Average	H	-	-	-82.78	18.92	0.00	43.14	53.98	-10.84
11870.00	Peak	H	-	-	-70.66	18.92	0.00	55.26	73.98	-18.72
* 17805.00	Average	H	-	-	-83.62	25.52	0.00	48.90	53.98	-5.08
* 17805.00	Peak	H	-	-	-72.19	25.52	0.00	60.33	73.98	-13.65
* 23740.00	Average	H	-	-	-67.41	5.80	-9.54	35.85	53.98	-18.13
* 23740.00	Peak	H	-	-	-56.75	5.80	-9.54	46.51	73.98	-27.47
29675.00	Peak	H	-	-	-57.53	9.28	-9.54	49.21	68.20	-18.99

Table 7-13. Radiated Measurements SISO ANT1 (UNII Band 5 – Low Channel – 20MHz)

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 6175MHz
Channel: 45

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]
12350.00	Average	H	-	-	-82.18	18.87	0.00	43.69	53.98	-10.29
12350.00	Peak	H	-	-	-70.44	18.87	0.00	55.43	73.98	-18.55
* 18525.00	Average	H	-	-	-66.99	3.60	-9.54	34.08	53.98	-19.90
* 18525.00	Peak	H	-	-	-56.74	3.60	-9.54	44.33	73.98	-29.65
* 24700.00	Peak	H	-	-	-56.92	5.96	-9.54	46.50	68.20	-21.70
30875.00	Peak	H	-	-	-56.95	9.50	-9.54	50.00	68.20	-18.20

Table 7-14. Radiated Measurements SISO ANT1 (UNII Band 5 – Mid Channel – 20MHz)

FCC ID: A3LSMF926B	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 224 of 261

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 6415MHz
Channel: 93

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]
12830.00	Peak	H	-	-	-70.38	19.45	0.00	56.07	68.20	-12.13
* 19245.00	Average	H	-	-	-67.42	4.55	-9.54	34.59	53.98	-19.39
* 19245.00	Peak	H	-	-	-56.98	4.55	-9.54	45.02	73.98	-28.95
* 25660.00	Peak	H	-	-	-56.85	6.65	-9.54	47.26	68.20	-20.94
32075.00	Peak	H	-	-	-58.15	10.45	-9.54	49.76	68.20	-18.44

Table 7-15. Radiated Measurements SISO ANT1 (UNII Band 5 – High Channel – 20MHz)

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 6435MHz
Channel: 97

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]
12870.00	Peak	H	-	-	-70.25	19.20	0.00	55.95	68.20	-12.25
* 19305.00	Average	H	-	-	-67.29	4.43	-9.54	34.60	53.98	-19.38
* 19305.00	Peak	H	-	-	-57.30	4.43	-9.54	44.59	73.98	-29.39
* 25740.00	Peak	H	-	-	-57.43	6.62	-9.54	46.65	68.20	-21.55
32175.00	Peak	H	-	-	-57.50	10.16	-9.54	50.11	68.20	-18.09

Table 7-16. Radiated Measurements SISO ANT1 (UNII Band 6 – Low Channel – 20MHz)

FCC ID: A3LSMF926B	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 225 of 261

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 6475MHz
Channel: 105

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]
12950.00	Peak	H	-	-	-71.37	19.91	0.00	55.54	68.20	-12.66
* 19425.00	Average	H	-	-	-66.74	4.32	-9.54	35.03	53.98	-18.95
* 19425.00	Peak	H	-	-	-56.86	4.32	-9.54	44.92	73.98	-29.06
* 25900.00	Peak	H	-	-	-56.31	6.92	-9.54	48.07	68.20	-20.13
32375.00	Peak	H	-	-	-57.56	10.44	-9.54	50.34	68.20	-17.86

Table 7-17. Radiated Measurements SISO ANT1 (UNII Band 6 – Mid Channel – 20MHz)

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 6515MHz
Channel: 113

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]
* 13030.00	Peak	H	-	-	-70.10	19.53	0.00	56.43	68.20	-11.77
* 19545.00	Average	H	-	-	-66.94	4.54	-9.54	35.06	53.98	-18.92
* 19545.00	Peak	H	-	-	-55.98	4.54	-9.54	46.01	73.98	-27.97
* 26060.00	Peak	H	-	-	-56.98	7.13	-9.54	47.61	68.20	-20.59
32575.00	Peak	H	-	-	-57.45	9.98	-9.54	49.99	68.20	-18.21

Table 7-18. Radiated Measurements SISO ANT1 (UNII Band 6 – High Channel – 20MHz)

FCC ID: A3LSMF926B	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 226 of 261

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 6535MHz
Channel: 117

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]
* 13070.00	Peak	H	-	-	-71.37	19.74	0.00	55.37	68.20	-12.83
* 19605.00	Average	H	-	-	-66.77	4.51	-9.54	35.20	53.98	-18.78
19605.00	Peak	H	-	-	-55.87	4.51	-9.54	46.09	73.98	-27.89
26140.00	Peak	H	-	-	-56.93	7.23	-9.54	47.76	68.20	-20.44
32675.00	Peak	H	-	-	-57.08	10.06	-9.54	50.44	68.20	-17.76

Table 7-19. Radiated Measurements SISO ANT1 (UNII Band 7 – Low Channel – 20MHz)

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 6695MHz
Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 13390.00	Average	H	-	-	-82.89	20.17	0.00	44.28	53.98	-9.70
* 13390.00	Peak	H	-	-	-70.83	20.17	0.00	56.34	73.98	-17.64
20085.00	Average	H	-	-	-66.98	4.17	-9.54	34.65	53.98	-19.33
* 20085.00	Peak	H	-	-	-56.83	4.17	-9.54	44.79	73.98	-29.19
* 26780.00	Peak	H	-	-	-56.95	7.89	-9.54	48.40	68.20	-19.80
33475.00	Peak	H	-	-	-56.91	10.77	-9.54	51.32	68.20	-16.88

Table 7-20. Radiated Measurements SISO ANT1 (UNII Band 7 – Mid Channel – 20MHz)

FCC ID: A3LSMF926B	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 227 of 261

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 6875MHz
Channel: 185

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]
* 13750.00	Peak	H	-	-		20.76	0.00	56.06	68.20	-12.14
20625.00	Average	H	-	-	-67.11	4.46	-9.54	34.80	53.98	-19.18
* 20625.00	Peak	H	-	-	-56.91	4.46	-9.54	45.00	73.98	-28.98
* 27500.00	Peak	H	-	-	-55.86	7.69	-9.54	49.29	68.20	-18.91
34375.00	Peak	H	-	-	-57.46	11.71	-9.54	51.70	68.20	-16.50

Table 7-21. Radiated Measurements SISO ANT1 (UNII Band 7 – High Channel – 20MHz)

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 6895MHz
Channel: 189

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]
* 13790.00	Peak	H	-	-	-71.51	20.56	0.00	56.05	68.20	-12.15
20685.00	Average	H	-	-	-67.18	4.97	-9.54	35.25	53.98	-18.73
* 20685.00	Peak	H	-	-	-57.40	4.97	-9.54	45.03	73.98	-28.95
* 27580.00	Peak	H	-	-	-56.31	8.05	-9.54	49.19	68.20	-19.01
34475.00	Peak	H	-	-	-57.56	11.54	-9.54	51.44	68.20	-16.76

Table 7-22. Radiated Measurements SISO ANT1 (UNII Band 8 – Low Channel – 20MHz)

FCC ID: A3LSMF926B	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 228 of 261

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 6995MHz
Channel: 209

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]
* 13990.00	Peak	H	-	-	-71.37	20.64	0.00	56.27	68.20	-11.93
* 20985.00	Average	H	-	-	-67.45	5.18	-9.54	35.19	53.98	-18.79
20985.00	Peak	H	-	-	-56.97	5.18	-9.54	45.66	73.98	-28.32
27980.00	Peak	H	-	-	-57.14	8.15	-9.54	48.46	68.20	-19.74
34975.00	Peak	H	-	-	-57.39	11.97	-9.54	52.04	68.20	-16.16

Table 7-23. Radiated Measurements SISO ANT1 (UNII Band 8 – Mid Channel – 20MHz)

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 7115MHz
Channel: 233

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]
* 14230.00	Peak	H	-	-	-70.79	20.94	0.00	57.15	68.20	-11.05
* 21345.00	Average	H	-	-	-67.48	5.06	-9.54	35.04	53.98	-18.94
21345.00	Peak	H	-	-	-57.17	5.06	-9.54	45.35	73.98	-28.63
28460.00	Peak	H	-	-	-57.19	8.29	-9.54	48.56	68.20	-19.64
35575.00	Peak	H	-	-	-57.72	11.52	-9.54	51.26	68.20	-16.94

Table 7-24. Radiated Measurements SISO ANT1 (UNII Band 8 – High Channel – 20MHz)

FCC ID: A3LSMF926B	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 229 of 261

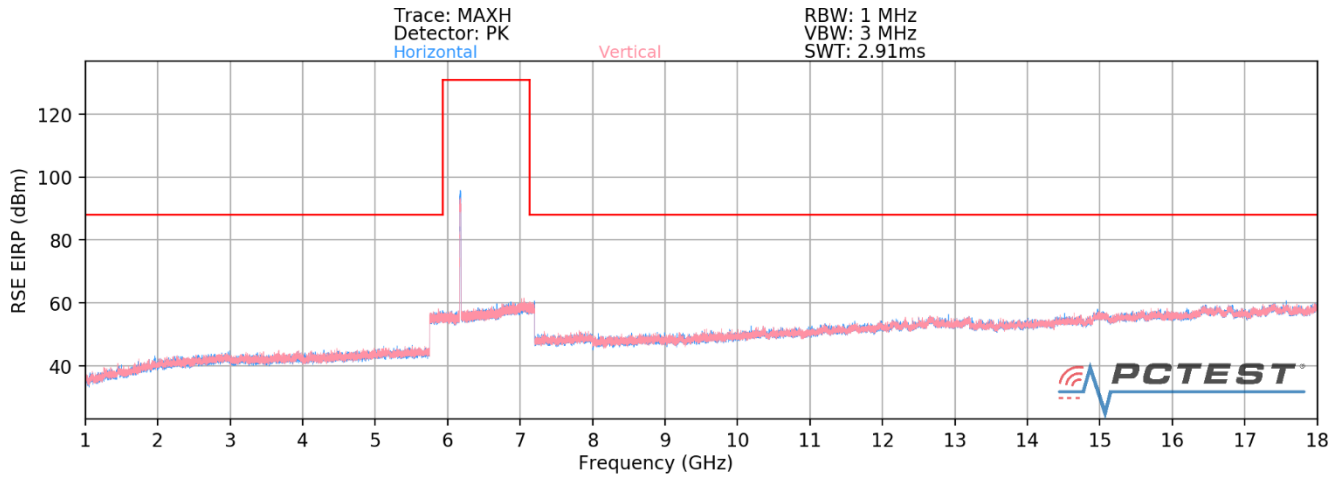
Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5935
Channel: 2

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]
11870.00	Average	H	-	-	-82.48	18.92	0.00	43.44	53.98	-10.54
11870.00	Peak	H	-	-	-70.58	18.92	0.00	55.34	73.98	-18.64
* 17805.00	Average	H	-	-	-83.59	25.52	0.00	48.93	53.98	-5.05
* 17805.00	Peak	H	-	-	-72.18	25.52	0.00	60.34	73.98	-13.64
* 23740.00	Average	H	-	-	-68.18	5.80	-9.54	35.08	53.98	-18.90
* 23740.00	Peak	H	-	-	-56.39	5.80	-9.54	46.87	73.98	-27.11
29675.00	Peak	H	-	-	-57.38	9.28	-9.54	49.36	68.20	-18.84

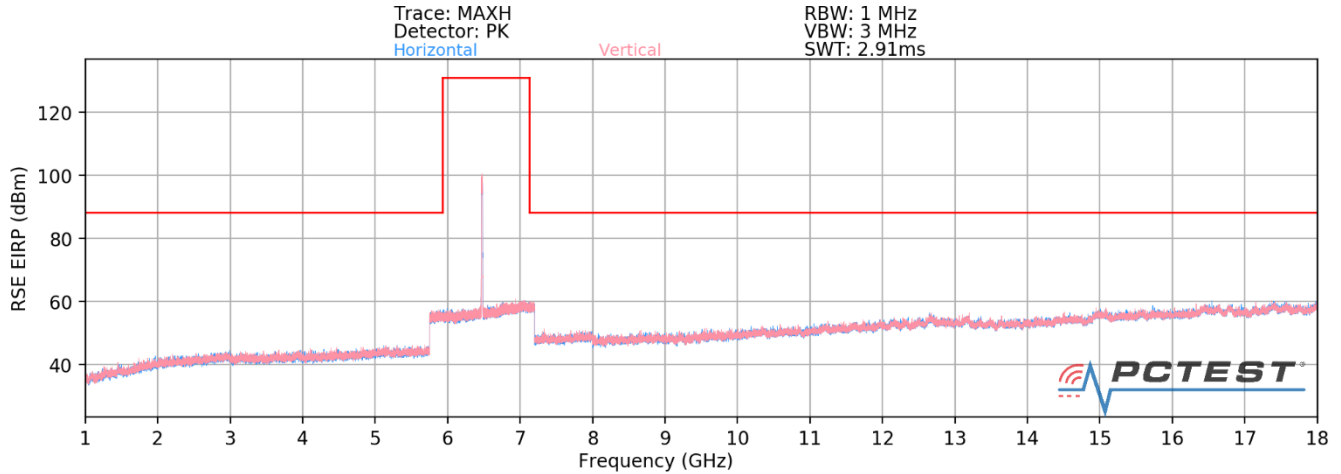
Table 7-25. Radiated Measurements SISO ANT1 with WCP

FCC ID: A3LSMF926B	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 230 of 261

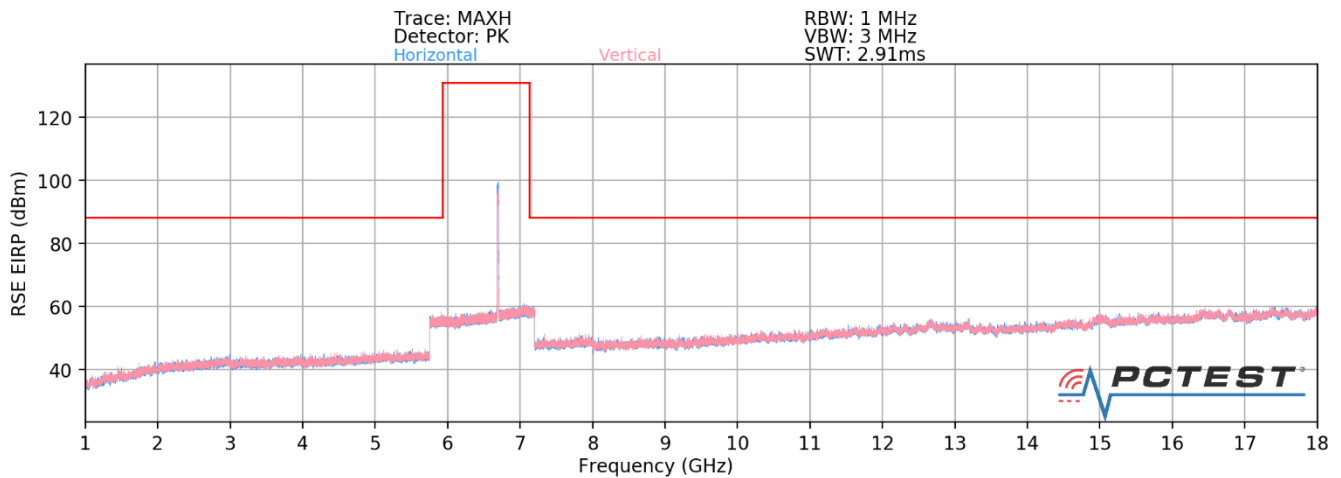
7.6.2 MIMO Radiated Spurious Emission Measurements



Plot 7-359. Radiated Spurious Plot above 1GHz MIMO (802.11ax – UNII Band 5 – 20MHz – Ch.45) - OPEN

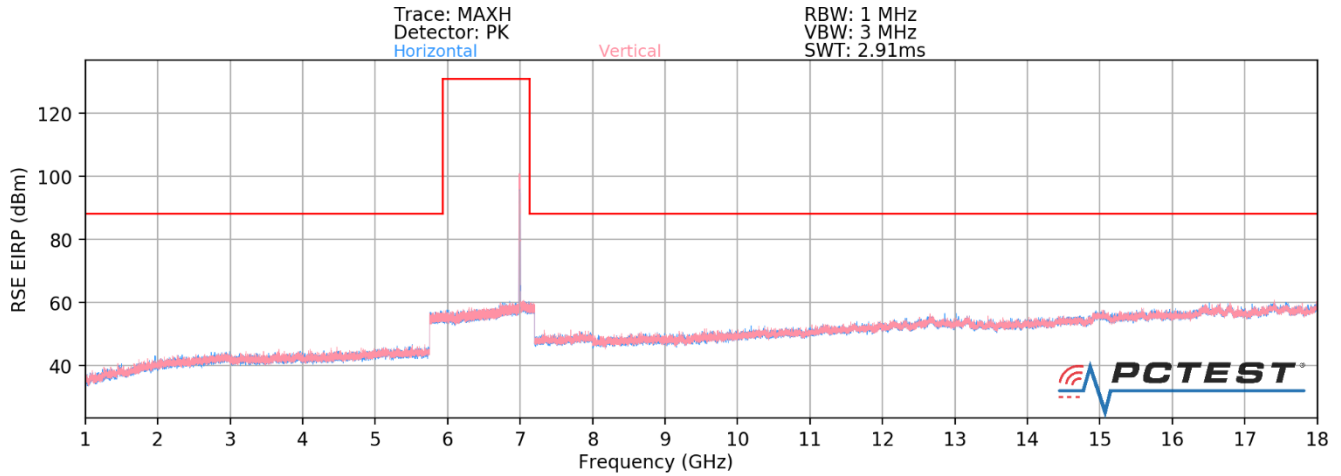


Plot 7-360. Radiated Spurious Plot above 1GHz MIMO (802.11ax– UNII Band 6 – 20MHz – Ch.105) - OPEN

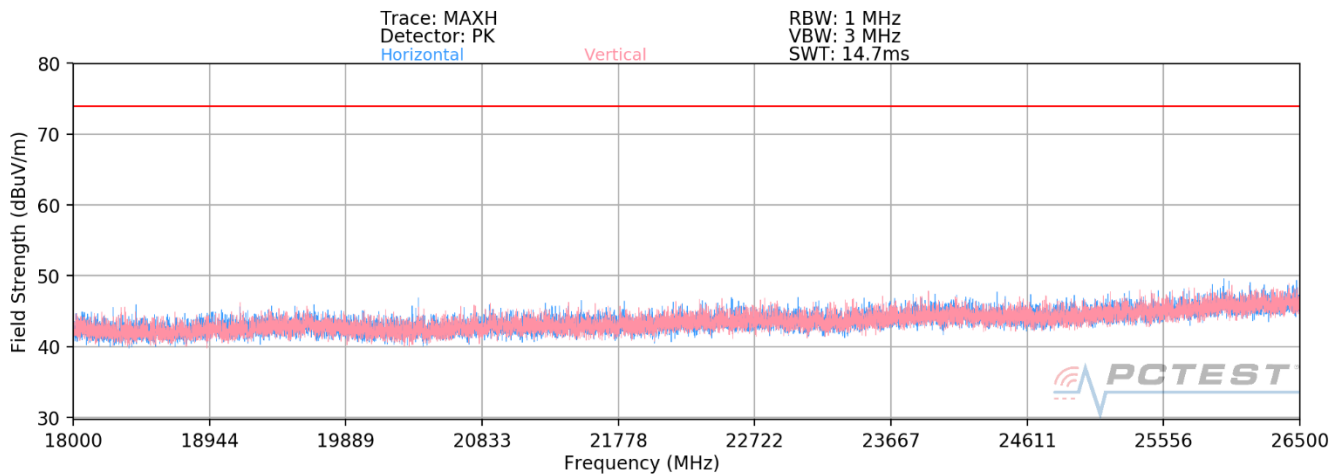


Plot 7 314. Radiated Spurious Plot above 1GHz MIMO (802.11ax– UNII Band 7 – 20MHz – Ch.149) - OPEN

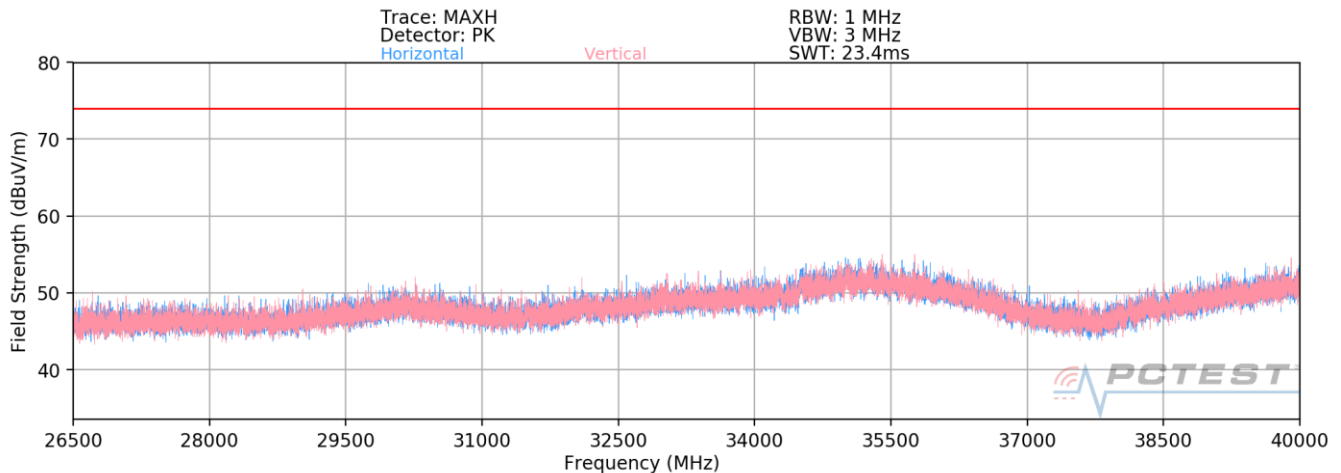
FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 231 of 261



Plot 7 314. Radiated Spurious Plot above 1GHz MIMO (802.11ax- UNII Band 8 – 20MHz – Ch.209) – OPEN

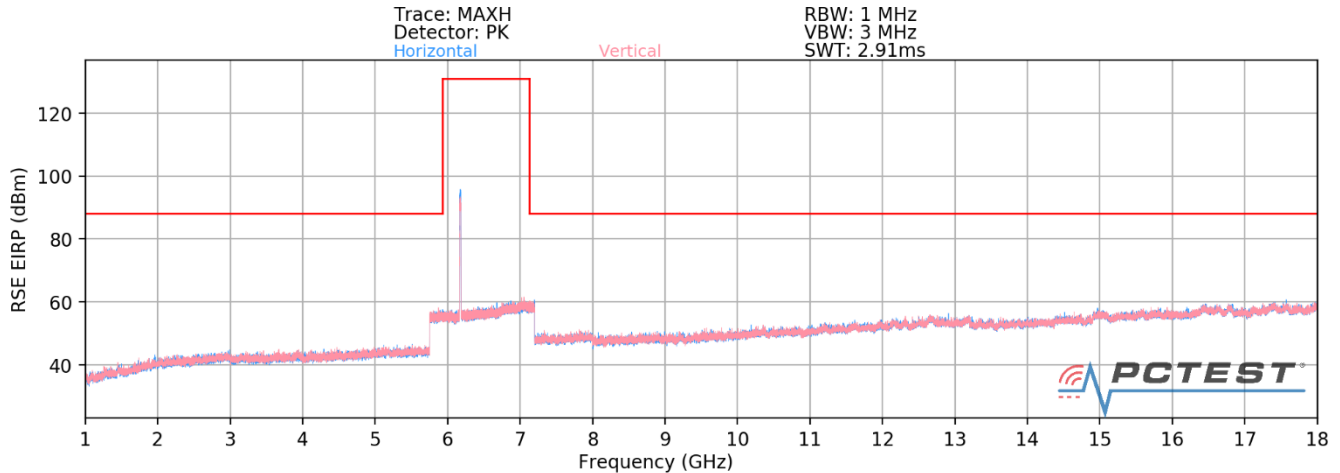


Plot 7-361. Radiated Spurious Plot above 18GHz - 26.5GHz MIMO (802.11ax) – OPEN

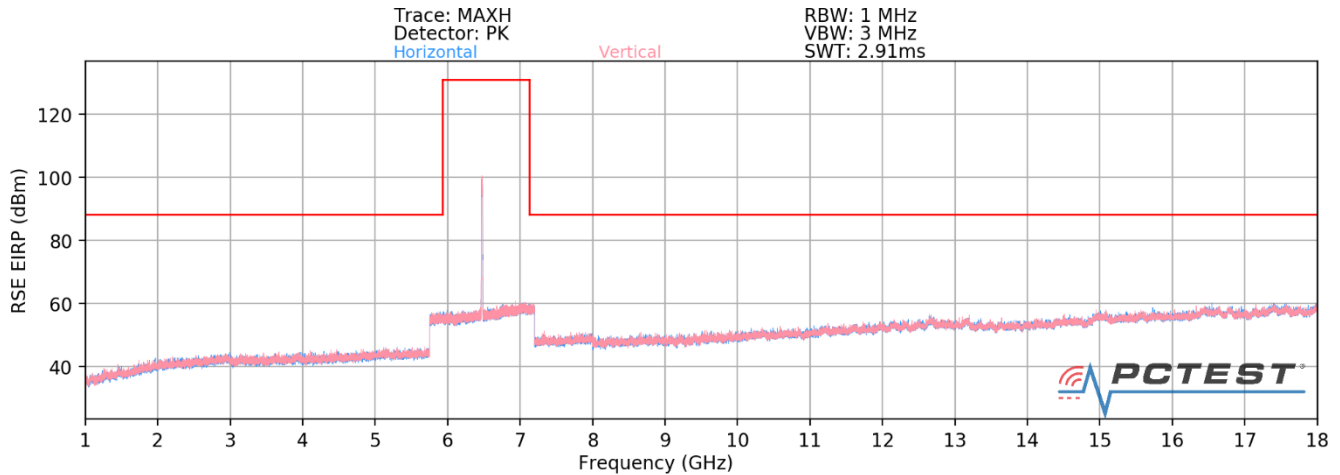


Plot 7-362. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax) - OPEN

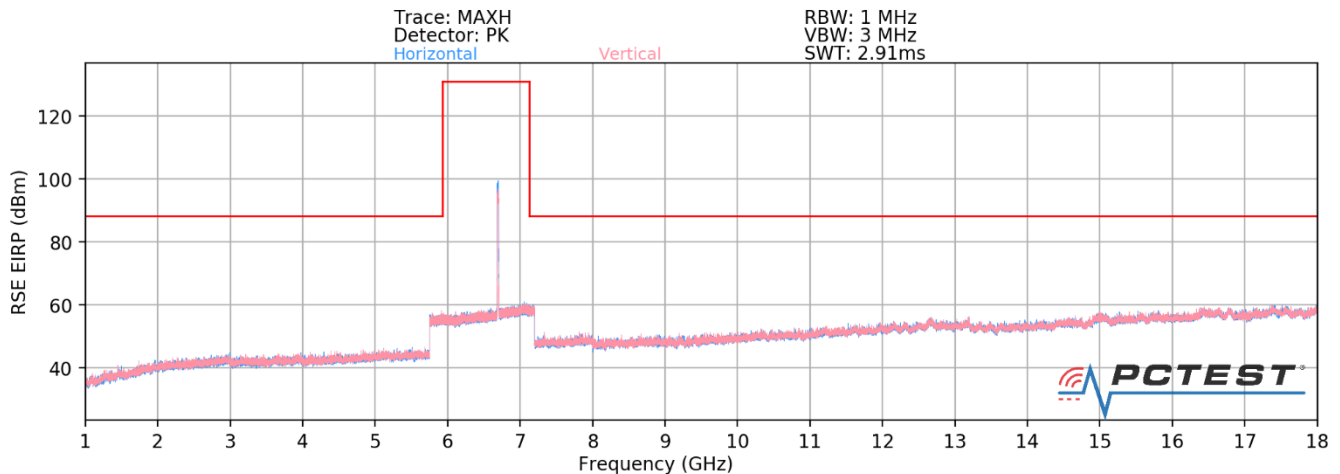
FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 232 of 261



Plot 7-363. Radiated Spurious Plot above 1GHz MIMO (802.11ax – UNII Band 5 – 20MHz – Ch.45) - CLOSED

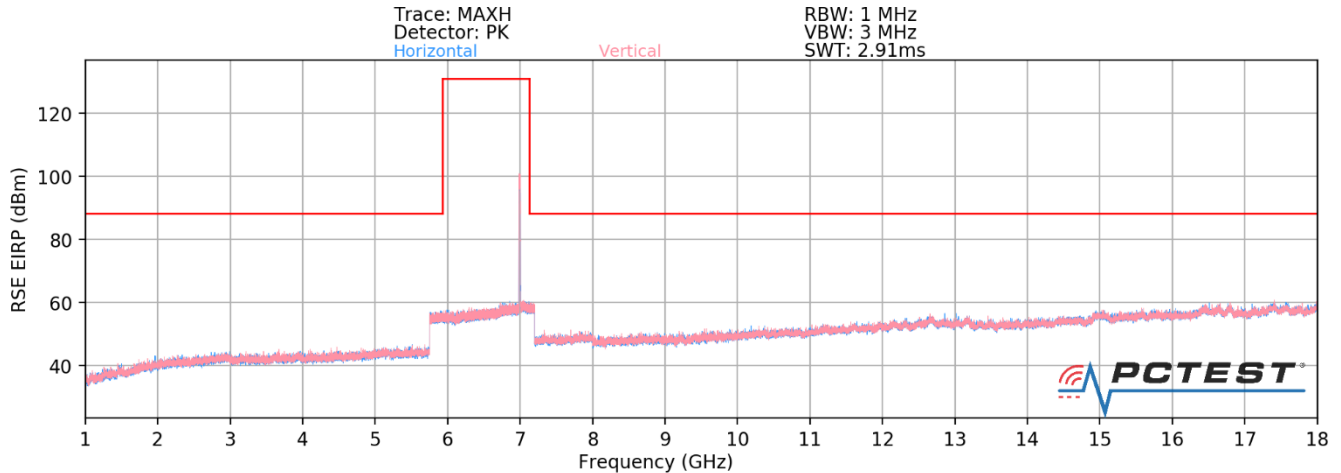


Plot 7-364. Radiated Spurious Plot above 1GHz MIMO (802.11ax– UNII Band 6 – 20MHz – Ch.105) - CLOSED

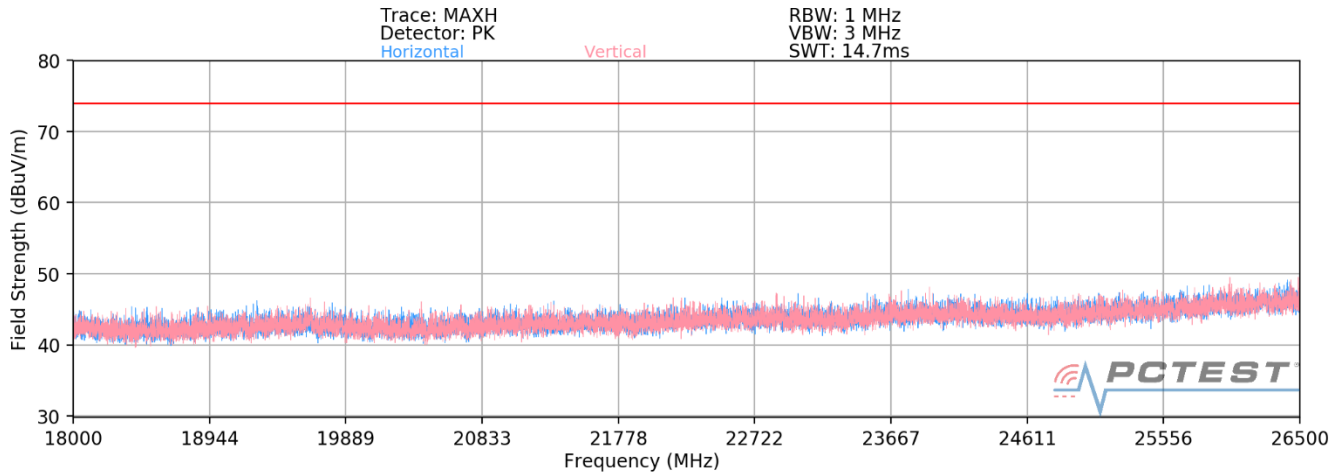


Plot 7 314. Radiated Spurious Plot above 1GHz MIMO (802.11ax– UNII Band 7 – 20MHz – Ch.149) - CLOSED

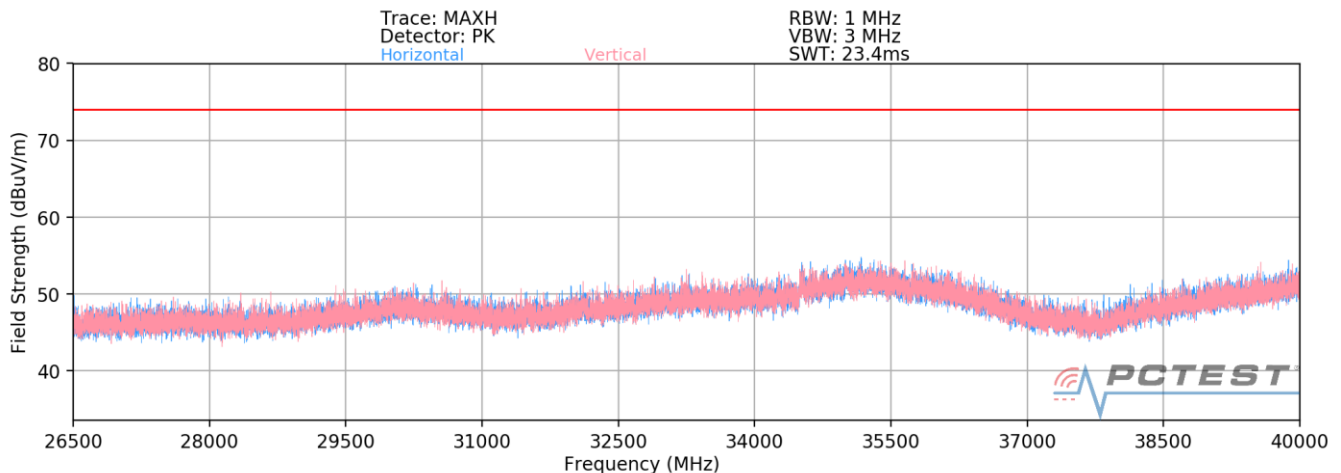
FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 233 of 261



Plot 7 314. Radiated Spurious Plot above 1GHz MIMO (802.11ax- UNII Band 8 - 20MHz - Ch.209) - CLOSED



Plot 7-365. Radiated Spurious Plot above 18GHz - 26.5GHz MIMO (802.11ax) - CLOSED



Plot 7-366. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax) - CLOSED

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 - 06/08/2021	EUT Type: Portable Handset		Page 234 of 261

MIMO Radiated Spurious Emission Measurements

§15.407(b) §15.205 & §15.209

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5935MHz
Channel: 2

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]
* 11870.00	Average	H	-	-	-80.18	16.01	0.00	42.83	53.98	-11.15
* 11870.00	Peak	H	-	-	-68.31	16.01	0.00	54.70	73.98	-19.28
* 17805.00	Average	H	-	-	-81.22	22.89	0.00	48.67	53.98	-5.31
* 17805.00	Peak	H	-	-	-69.71	22.89	0.00	60.18	73.98	-13.80
* 23740.00	Average	H	-	-	-66.76	5.80	-9.54	36.50	53.98	-17.48
* 23740.00	Peak	H	-	-	-56.70	5.80	-9.54	46.56	73.98	-27.42
29675.00	Peak	H	-	-	-56.98	9.28	-9.54	49.76	68.20	-18.44

Table 7-26. Radiated Measurements MIMO (UNII Band 5 – Low Channel – 20MHz)

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 6175MHz
Channel: 45

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]
* 12350.00	Average	H	-	-	-80.59	14.49	0.00	40.90	53.98	-13.08
* 12350.00	Peak	H	-	-	-68.94	14.49	0.00	52.55	73.98	-21.43
* 18525.00	Average	H	-	-	-67.04	3.60	-9.54	34.02	53.98	-19.96
* 18525.00	Peak	H	-	-	-56.59	3.60	-9.54	44.48	73.98	-29.50
24700.00	Peak	H	-	-	-57.31	5.96	-9.54	46.10	68.20	-22.10
30875.00	Peak	H	-	-	-58.20	9.50	-9.54	48.76	68.20	-19.44

Table 7-27. Radiated Measurements MIMO (UNII Band 5 – Mid Channel – 20MHz)

FCC ID: A3LSMF926B	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 235 of 261

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 6415MHz
Channel: 93

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]
12830.00	Peak	H	-	-	-67.59	14.56	0.00	53.97	68.20	-14.23
* 19245.00	Average	H	-	-	-67.19	4.55	-9.54	34.82	53.98	-19.16
* 19245.00	Peak	H	-	-	-56.86	4.55	-9.54	45.15	73.98	-28.83
25660.00	Peak	H	-	-	-57.31	6.65	-9.54	46.81	68.20	-21.39
32075.00	Peak	H	-	-	-58.02	10.45	-9.54	49.89	68.20	-18.31

Table 7-28. Radiated Measurements MIMO (UNII Band 5 – High Channel – 20MHz)

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 6435MHz
Channel: 97

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]
12870.00	Peak	H	-	-	-68.17	14.76	0.00	53.59	68.20	-14.61
* 19305.00	Average	H	-	-	-67.07	4.43	-9.54	34.83	53.98	-19.15
* 19305.00	Peak	H	-	-	-56.25	4.43	-9.54	45.65	73.98	-28.33
25740.00	Peak	H	-	-	-57.17	6.62	-9.54	46.91	68.20	-21.29
32175.00	Peak	H	-	-	-57.38	10.16	-9.54	50.24	68.20	-17.96

Table 7-29. Radiated Measurements MIMO (UNII Band 6 – Low Channel – 20MHz)

FCC ID: A3LSMF926B	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 236 of 261

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 6475MHz
Channel: 105

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]
12950.00	Peak	H	-	-	-67.93	14.69	0.00	53.76	68.20	-14.44
* 19425.00	Average	H	-	-	-67.12	4.32	-9.54	34.65	53.98	-19.32
* 19425.00	Peak	H	-	-	-56.89	4.32	-9.54	44.89	73.98	-29.09
25900.00	Peak	H	-	-	-56.97	6.92	-9.54	47.41	68.20	-20.79
32375.00	Peak	H	-	-	-57.94	10.44	-9.54	49.95	68.20	-18.25

Table 7-30. Radiated Measurements MIMO (UNII Band 6 – Mid Channel – 20MHz)

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 6515MHz
Channel: 113

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]
13030.00	Peak	H	-	-	-68.60	15.59	0.00	53.99	68.20	-14.21
* 19545.00	Average	H	-	-	-67.06	4.54	-9.54	34.94	53.98	-19.04
* 19545.00	Peak	H	-	-	-56.96	4.54	-9.54	45.04	73.98	-28.94
26060.00	Peak	H	-	-	-57.23	7.13	-9.54	47.36	68.20	-20.84
32575.00	Peak	H	-	-	-58.02	9.98	-9.54	49.41	68.20	-18.79

Table 7-31. Radiated Measurements MIMO (UNII Band 6 – High Channel – 20MHz)

FCC ID: A3LSMF926B	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 237 of 261

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 6535MHz
Channel: 117

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]
13070.00	Peak	H	-	-	-68.71	16.02	0.00	54.31	68.20	-13.89
* 19605.00	Average	H	-	-	-66.79	4.51	-9.54	35.17	53.98	-18.81
* 19605.00	Peak	H	-	-	-55.59	4.51	-9.54	46.38	73.98	-27.60
26140.00	Peak	H	-	-	-57.19	7.23	-9.54	47.50	68.20	-20.70
32675.00	Peak	H	-	-	-57.01	10.06	-9.54	50.51	68.20	-17.69

Table 7-32. Radiated Measurements MIMO (UNII Band 7 – Low Channel – 20MHz)

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 6695MHz
Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 13390.00	Average	H	-	-	-80.46	15.48	0.00	42.02	53.98	-11.96
* 13390.00	Peak	H	-	-	-69.06	15.48	0.00	53.42	73.98	-20.56
* 20085.00	Average	H	-	-	-66.97	4.17	-9.54	34.65	53.98	-19.33
* 20085.00	Peak	H	-	-	-56.06	4.17	-9.54	45.56	73.98	-28.41
26780.00	Peak	H	-	-	-56.45	7.89	-9.54	48.90	68.20	-19.30
33475.00	Peak	H	-	-	-57.70	10.77	-9.54	50.53	68.20	-17.67

Table 7-33. Radiated Measurements MIMO (UNII Band 7 – Mid Channel – 20MHz)

FCC ID: A3LSMF926B	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 238 of 261

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 6875MHz
Channel: 185

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]
13750.00	Peak	H	-	-	-68.76	17.13	0.00	55.37	68.20	-12.83
* 20625.00	Average	H	-	-	-67.40	4.46	-9.54	34.51	53.98	-19.47
* 20625.00	Peak	H	-	-	-55.69	4.46	-9.54	46.23	73.98	-27.75
27500.00	Peak	H	-	-	-55.66	7.69	-9.54	49.49	68.20	-18.71
34375.00	Peak	H	-	-	-56.11	11.71	-9.54	53.05	68.20	-15.15

Table 7-34. Radiated Measurements MIMO (UNII Band 7 – High Channel – 20MHz)

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 6895MHz
Channel: 189

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]
13790.00	Peak	H	-	-	-68.51	16.84	0.00	55.33	68.20	-12.87
* 20685.00	Average	H	-	-	-66.83	4.97	-9.54	35.59	53.98	-18.39
* 20685.00	Peak	H	-	-	-56.22	4.97	-9.54	46.21	73.98	-27.77
27580.00	Peak	H	-	-	-57.19	8.05	-9.54	48.32	68.20	-19.88
34475.00	Peak	H	-	-	-57.34	11.54	-9.54	51.66	68.20	-16.54

Table 7-35. Radiated Measurements MIMO (UNII Band 8 – Low Channel – 20MHz)

FCC ID: A3LSMF926B	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 239 of 261

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 6995MHz
Channel: 209

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]
13990.00	Peak	H	-	-	-68.79	17.39	0.00	55.60	68.20	-12.60
* 20985.00	Average	H	-	-	-66.89	5.18	-9.54	35.74	53.98	-18.24
* 20985.00	Peak	H	-	-	-56.57	5.18	-9.54	46.06	73.98	-27.92
27980.00	Peak	H	-	-	-57.16	8.15	-9.54	48.45	68.20	-19.75
34975.00	Peak	H	-	-	-57.44	11.97	-9.54	51.99	68.20	-16.21

Table 7-36. Radiated Measurements MIMO (UNII Band 8 – Mid Channel – 20MHz)

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 7115MHz
Channel: 233

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]
14230.00	Peak	H	-	-	-68.19	17.37	0.00	56.18	68.20	-12.02
* 21345.00	Average	H	-	-	-67.25	5.06	-9.54	35.27	53.98	-18.71
* 21345.00	Peak	H	-	-	-56.78	5.06	-9.54	45.73	73.98	-28.24
28460.00	Peak	H	-	-	-57.07	8.29	-9.54	48.68	68.20	-19.52
35575.00	Peak	H	-	-	-57.51	11.52	-9.54	51.47	68.20	-16.73

Table 7-37. Radiated Measurements MIMO (UNII Band 8 – High Channel – 20MHz)

FCC ID: A3LSMF926B	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 240 of 261

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5935
Channel: 2

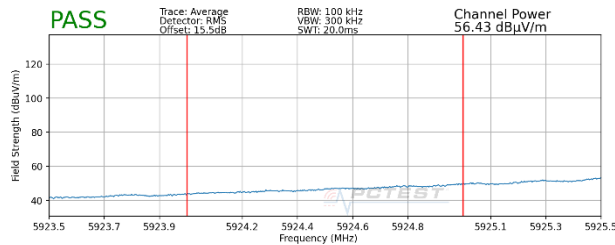
	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	11870.00	Average	H	-	-	-80.19	16.01	0.00	42.82	53.98	-11.16
*	11870.00	Peak	H	-	-	-68.24	16.01	0.00	54.77	73.98	-19.21
*	17805.00	Average	H	-	-	-80.64	22.89	0.00	49.25	53.98	-4.73
*	17805.00	Peak	H	-	-	-69.72	22.89	0.00	60.17	73.98	-13.81
*	23740.00	Average	H	-	-	-66.77	5.80	-9.54	36.49	53.98	-17.49
	23740.00	Peak	H	-	-	-56.86	5.80	-9.54	46.40	73.98	-27.58
	29675.00	Peak	H	-	-	-57.02	9.28	-9.54	49.71	68.20	-18.49

Table 7-38. Radiated Measurements MIMO with WCP

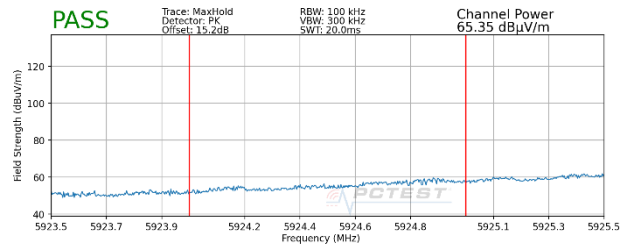
FCC ID: A3LSMF926B	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 241 of 261

7.6.3 SISO Antenna-1 Radiated Band Edge Measurements (20MHz BW) §15.407(b.5) §15.205 §15.209

Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	5935MHz
Channel:	2

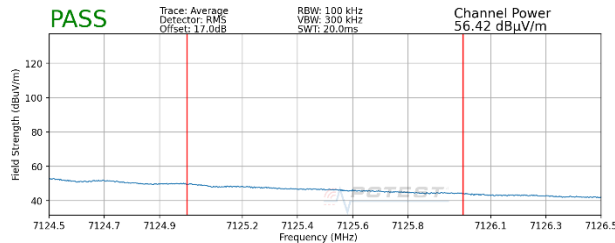


**Plot 7-367. Radiated Lower Band Edge Plot
SISO ANT1 (Average – UNII Band 5)**

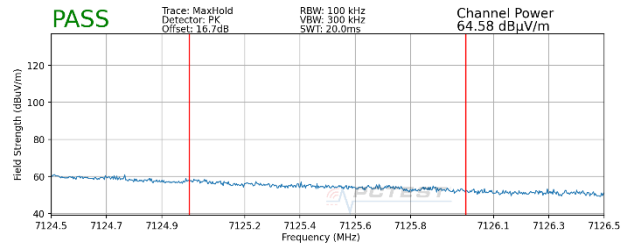


**Plot 7-368. Radiated Lower Band Edge Plot
SISO ANT1 (Peak – UNII Band 5)**

Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	7115MHz
Channel:	233



**Plot 7-369. Radiated Upper Band Edge Plot
SISO ANT1 (Average – UNII Band 8)**

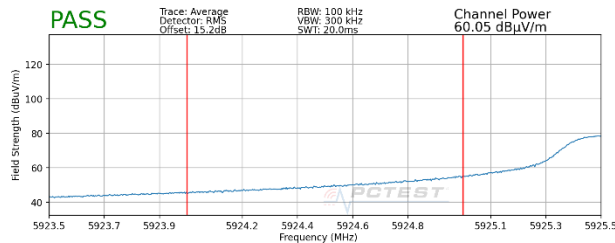


**Plot 7-370. Radiated Upper Band Edge Plot
SISO ANT1 (Peak – UNII Band 8)**

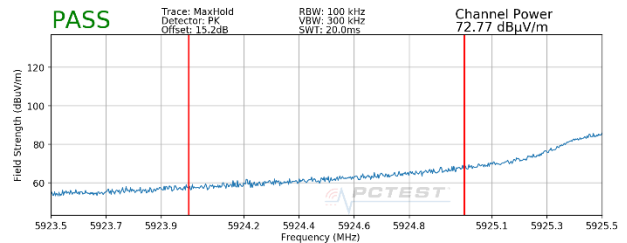
FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 242 of 261

7.6.4 MIMO Radiated Band Edge Measurements (20MHz BW) §15.407(b.5) §15.205 §15.209

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5935MHz
Channel:	2

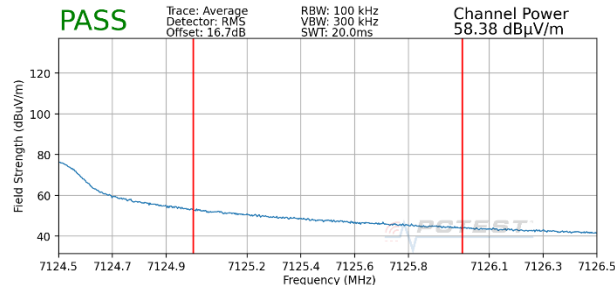


Plot 7-371. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)

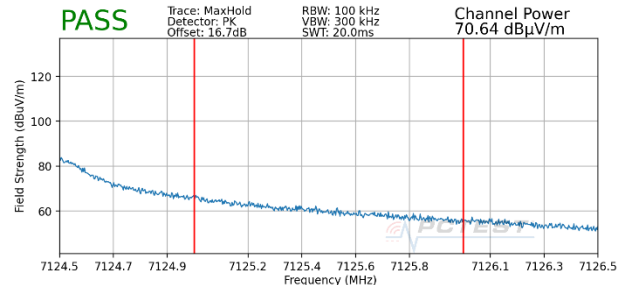


Plot 7-372. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	7115MHz
Channel:	233



Plot 7-373. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)

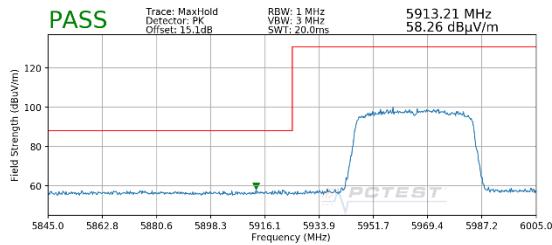


Plot 7-374. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 243 of 261

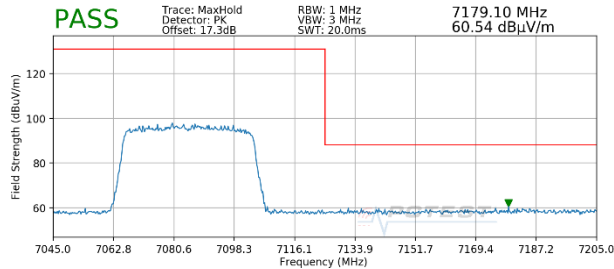
7.6.5 MIMO Radiated Band Edge Measurements (40MHz BW) §15.407(b.5) §15.205 §15.209

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5965MHz
Channel:	3



**Plot 7-375. Radiated Lower Band Edge Plot MIMO
(Peak – UNII Band 5)**

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	7085MHz
Channel:	227

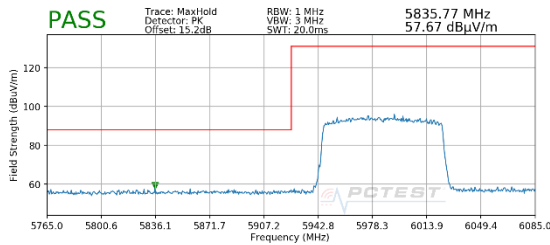


**Plot 7-376. Radiated Upper Band Edge Plot MIMO
(Peak – UNII Band 8)**

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 244 of 261

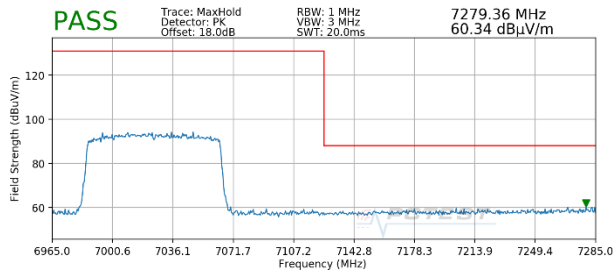
7.6.6 MIMO Radiated Band Edge Measurements (80MHz BW) §15.407(b.5) §15.205 §15.209

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5985MHz
Channel:	7



**Plot 7-377. Radiated Lower Band Edge Plot MIMO
(Peak – UNII Band 5)**

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	7025MHz
Channel:	215

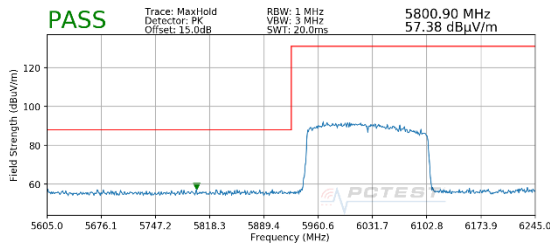


**Plot 7-378. Radiated Upper Band Edge Plot MIMO
(Peak – UNII Band 8)**

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2104190044-15-R2.A3L	Test Dates: 03/26 – 06/08/2021	EUT Type: Portable Handset		Page 245 of 261

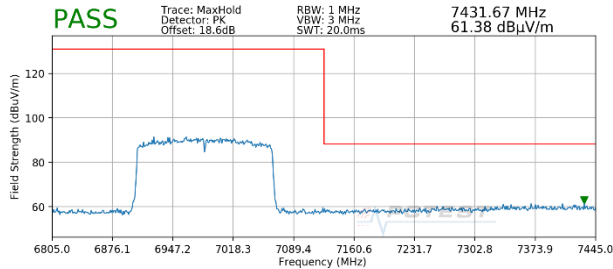
7.6.7 MIMO Radiated Band Edge Measurements (160MHz BW) §15.407(b.5) §15.205 §15.209

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15



**Plot 7-379. Radiated Lower Band Edge Plot MIMO
(Peak – UNII Band 5)**

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6985MHz
Channel:	207



**Plot 7-380. Radiated Upper Band Edge Plot MIMO
(Peak – UNII Band 8)**

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7.8 Radiated Spurious Emissions Measurements – Below 1GHz

§15.209

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 emissions <1GHz must not exceed the limit shown in Table 7-39 per Section 15.209

Frequency	Field Strength [$\mu\text{V/m}$]	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 7-39. Radiated Limits

Test Procedures Used

ANSI C63.10-2013

Test Settings

Quasi-Peak Field Strength Measurements

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

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Test Setup

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

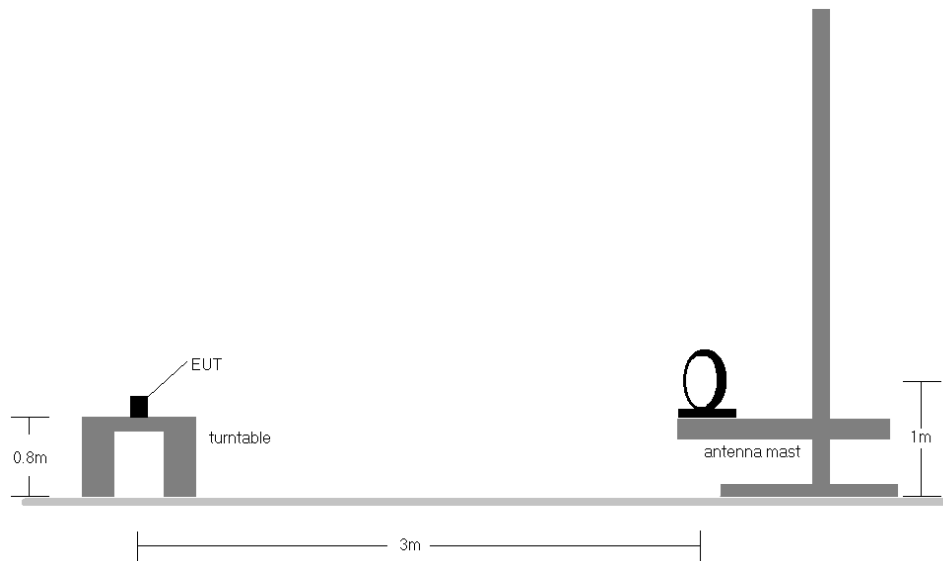


Figure 7-8. Radiated Test Setup < 30MHz

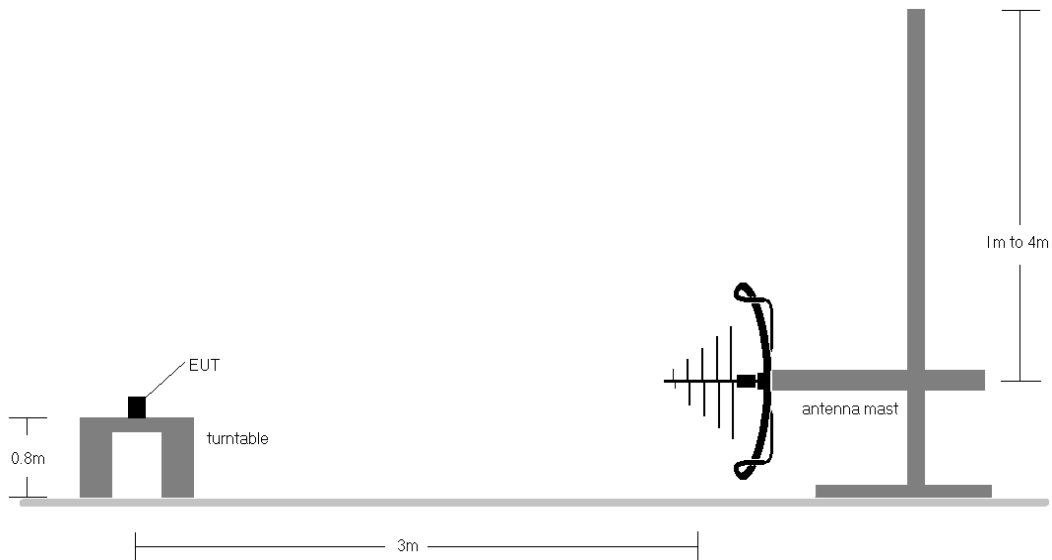


Figure 7-9. Radiated Test Setup < 1GHz

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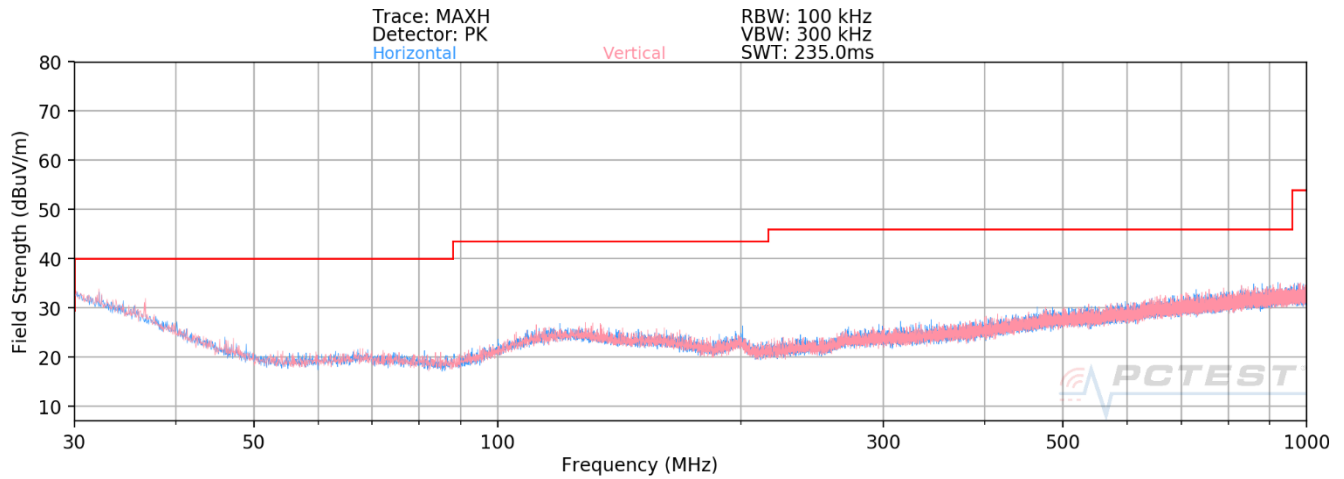
Test Notes

1. All emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-39.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.

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Radiated Spurious Emissions Measurements (Below 1GHz)

\$15.209



Plot 7-381. Radiated Spurious Plot below 1GHz

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7.9 Line-Conducted Test Data

§15.407

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).

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 7-40. 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.

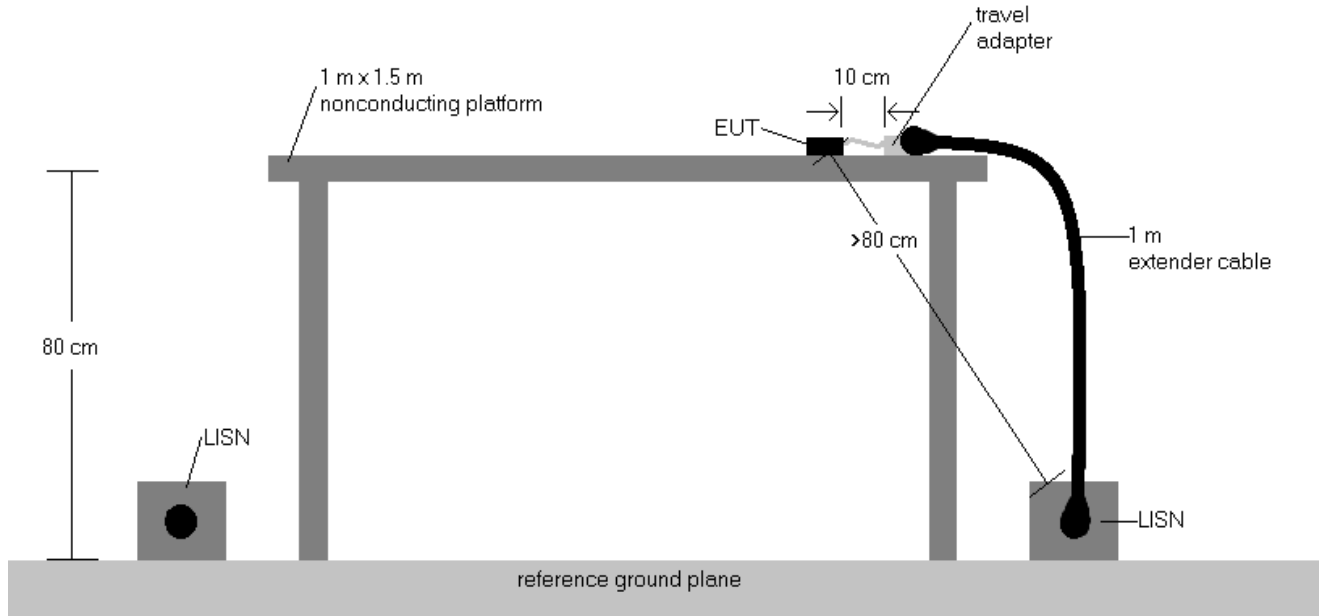
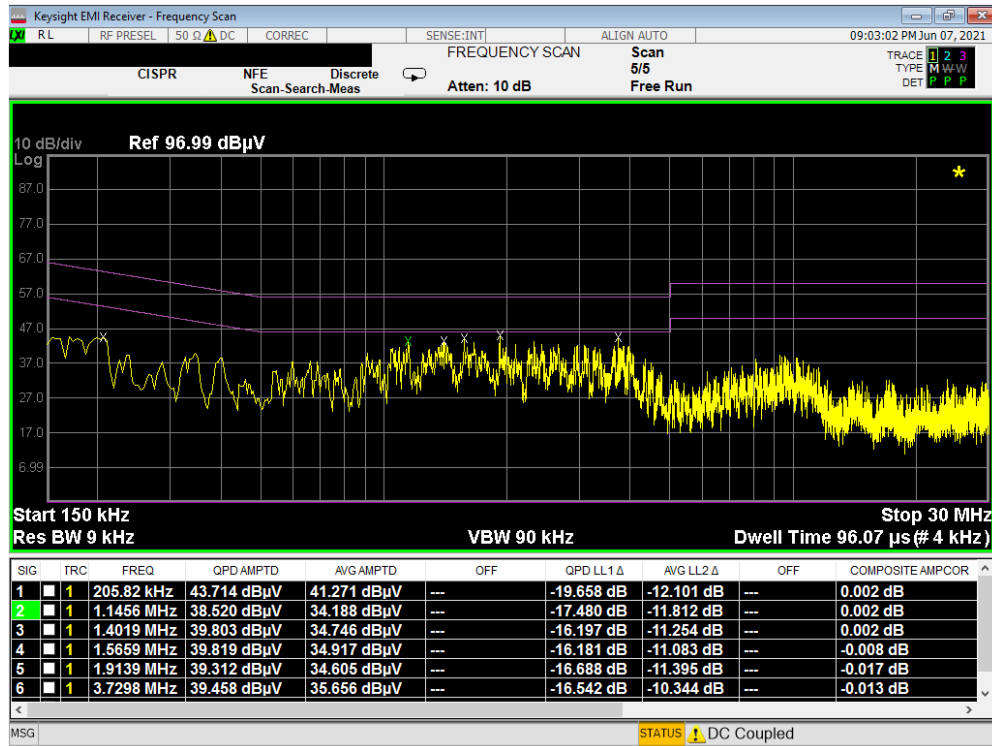


Figure 7-10. Test Instrument & Measurement Setup

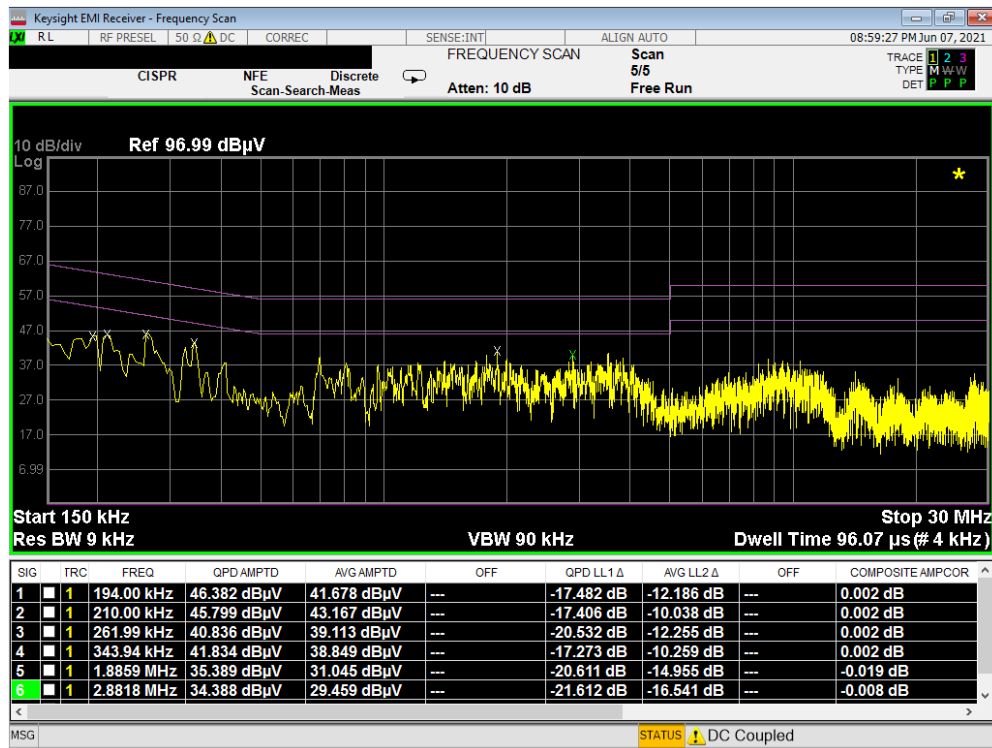
Test Notes

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.
3. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5. $\text{Margin (dB)} = \text{QP/AV Limit (dB}\mu\text{V)} - \text{QP/AV Level (dB}\mu\text{V)}$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

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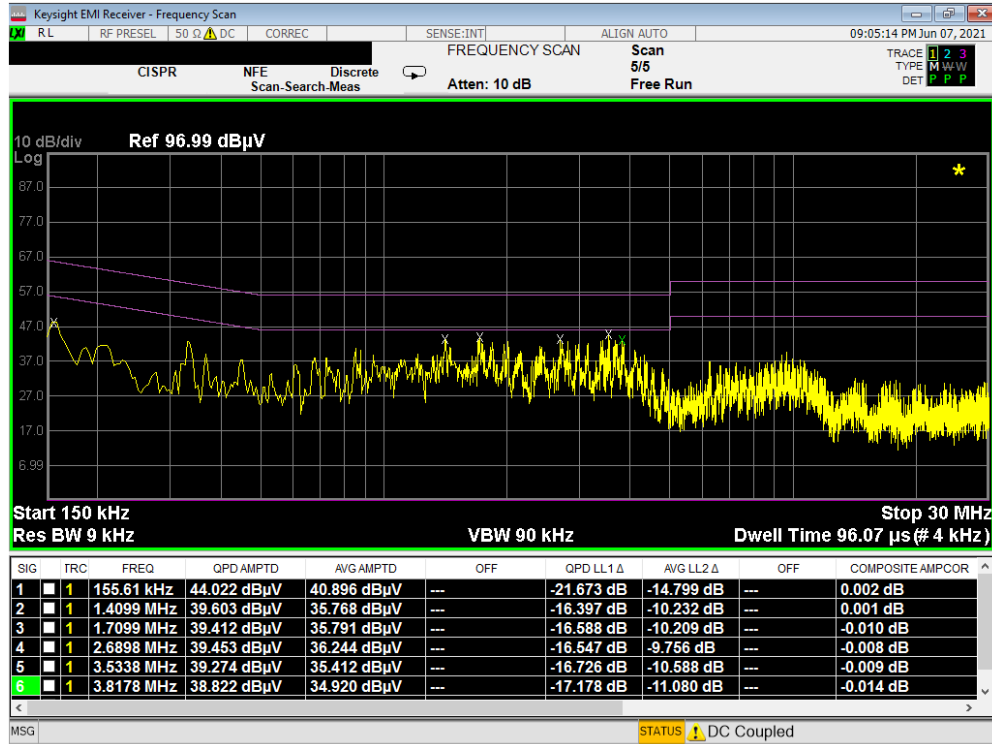


Plot 7-382. Line Conducted Plot with 802.11a UNII Band 5 (L1)

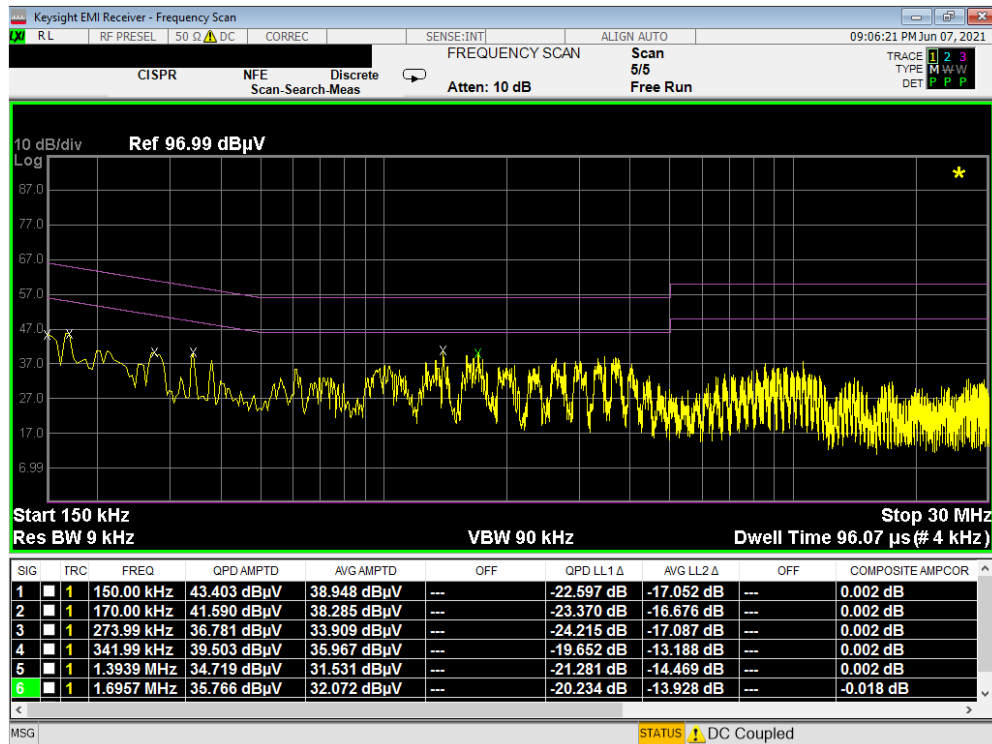


Plot 7-383. Line Conducted Plot with 802.11a UNII Band 5 (N)

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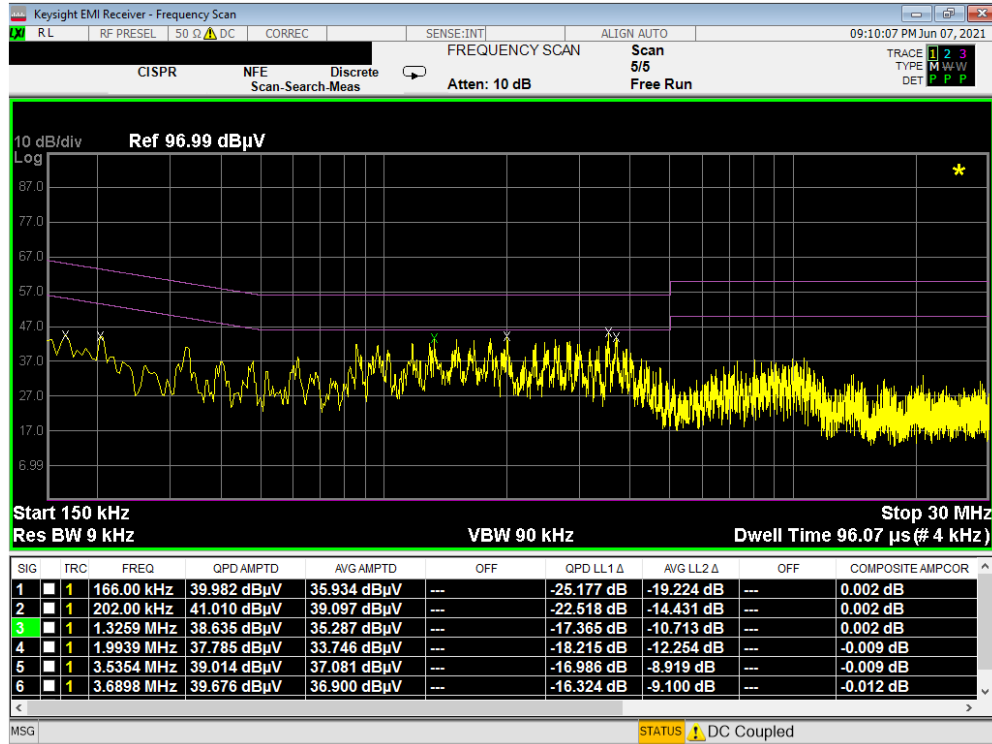


Plot 7-384. Line Conducted Plot with 802.11a UNII Band 6 (L1)

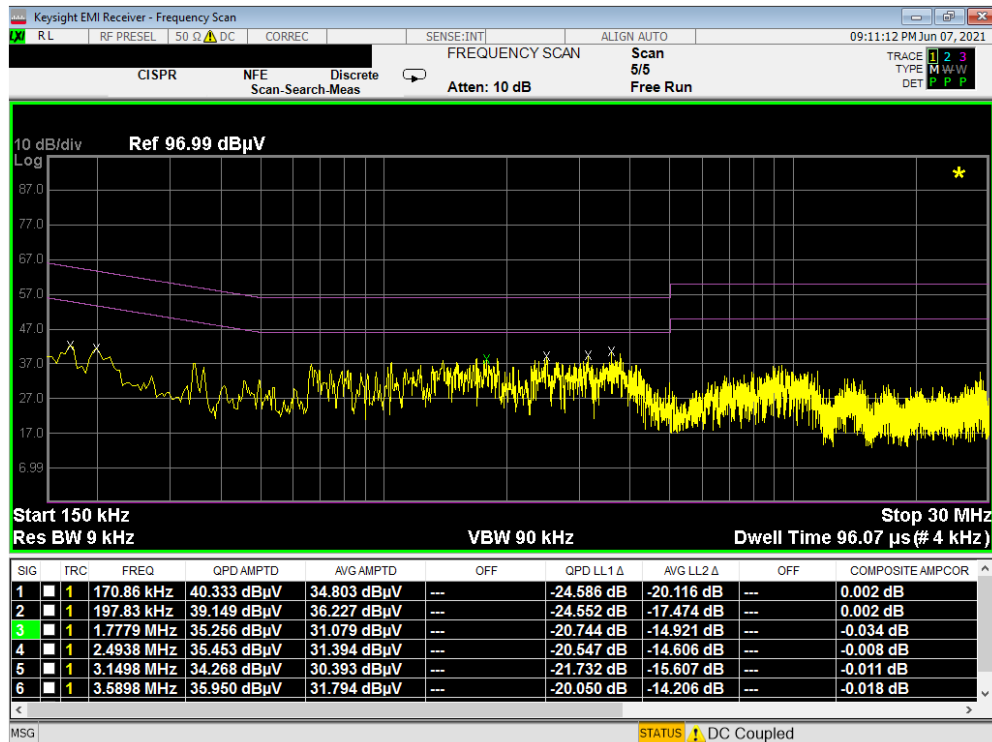


Plot 7-385. Line Conducted Plot with 802.11a UNII Band 6 (N)

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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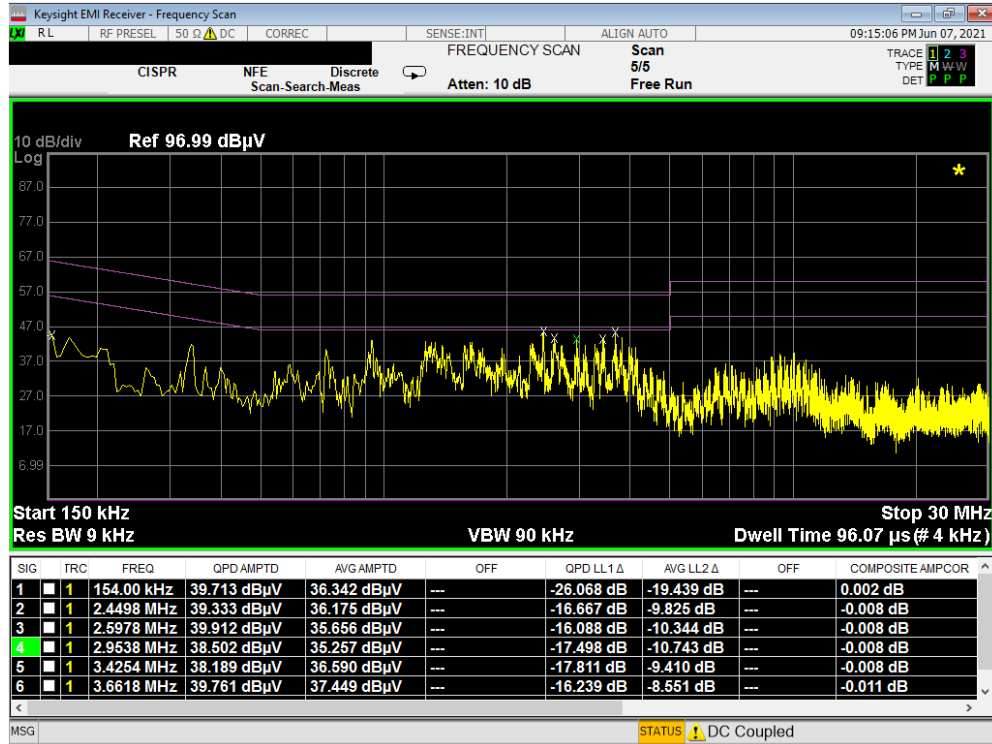


Plot 7-386. Line Conducted Plot with 802.11a UNII Band 7 (L1)

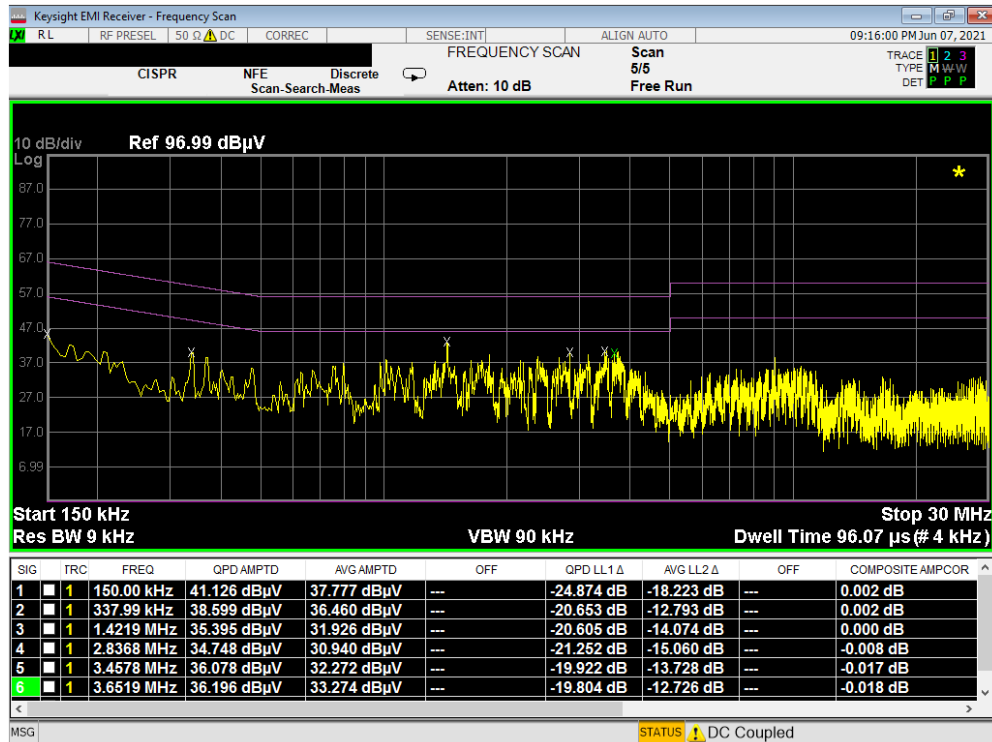


Plot 7-387. Line Conducted Plot with 802.11a UNII Band 7 (N)

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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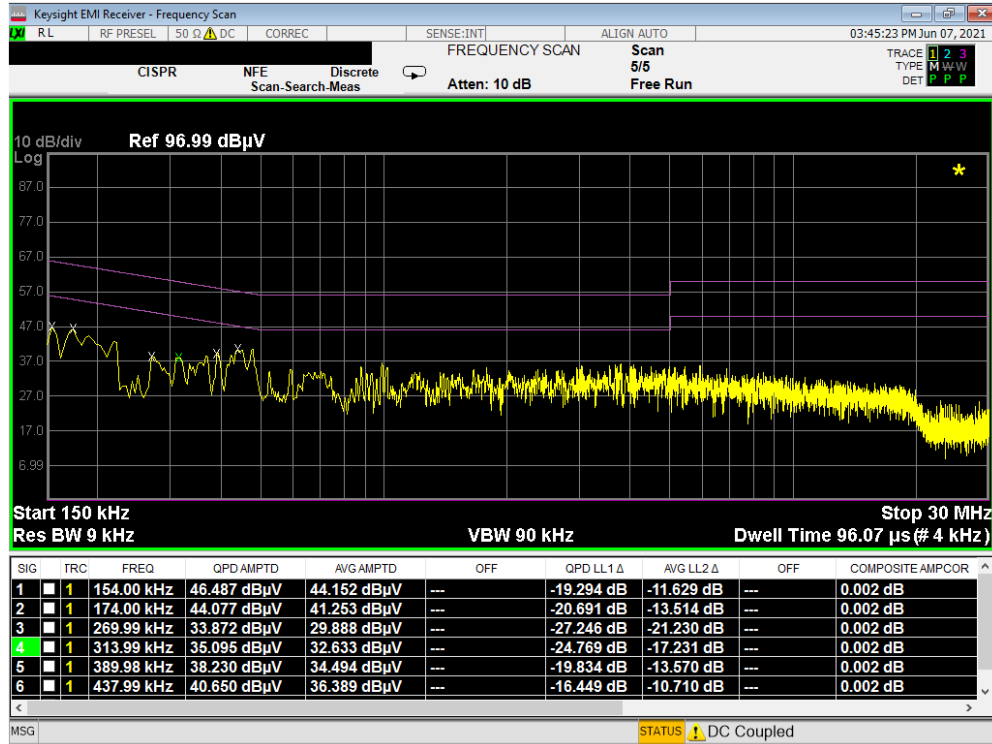


Plot 7-388. Line Conducted Plot with 802.11a UNII Band 8 (L1)

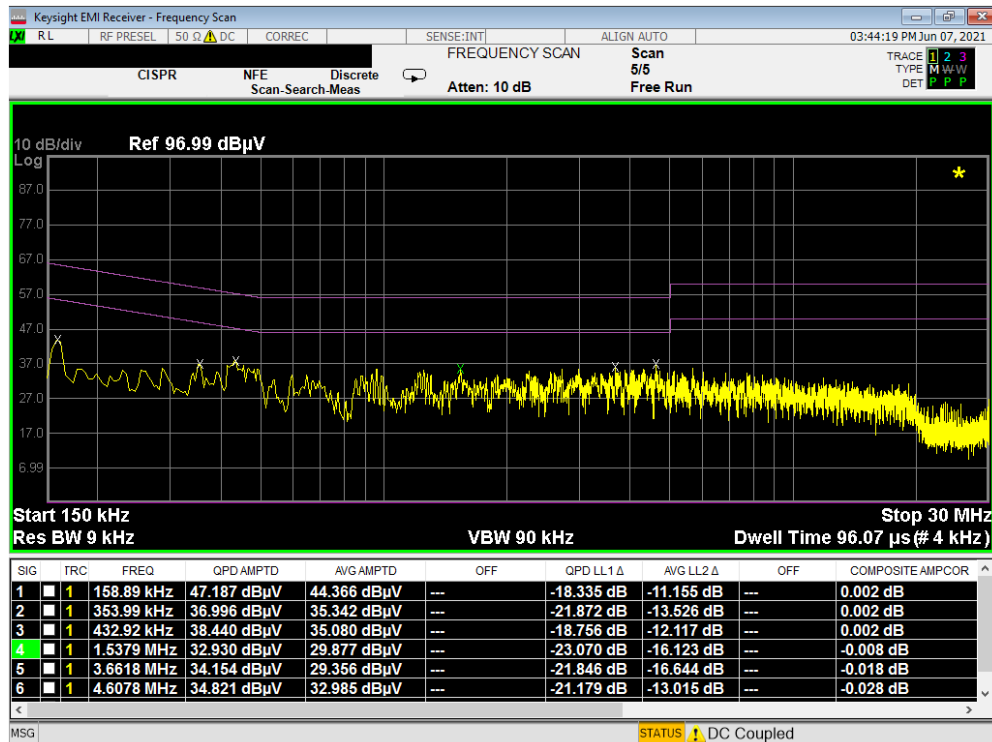


Plot 7-389. Line Conducted Plot with 802.11a UNII Band 8 (N)

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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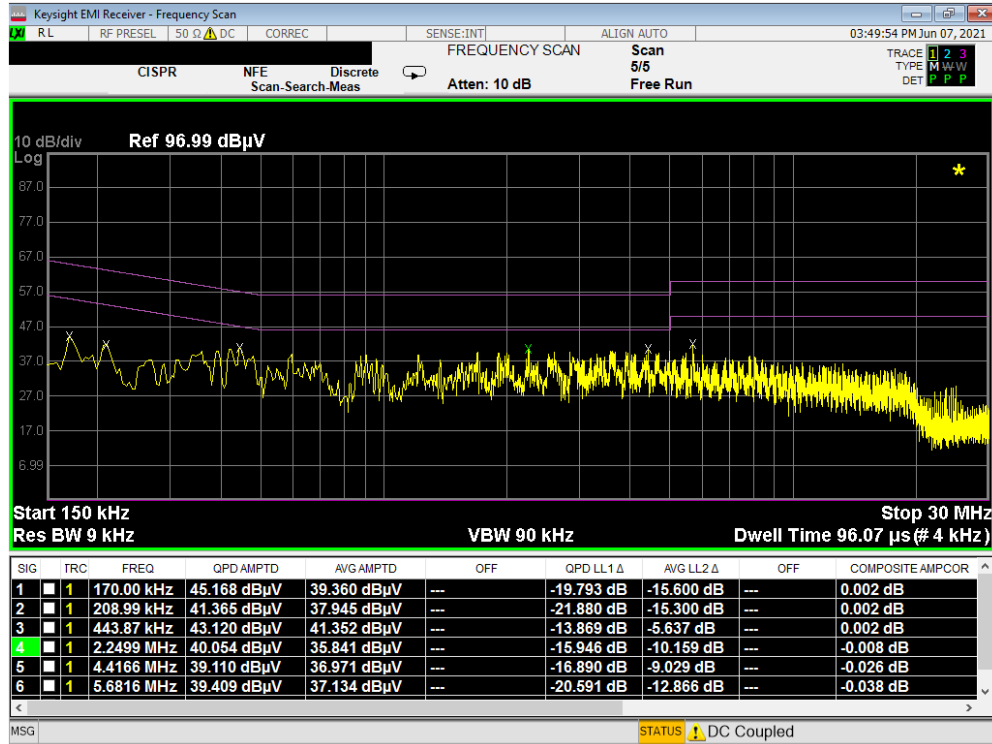


Plot 7-390. Line Conducted Plot with 802.11a UNII Band 5 (L1) with WCP

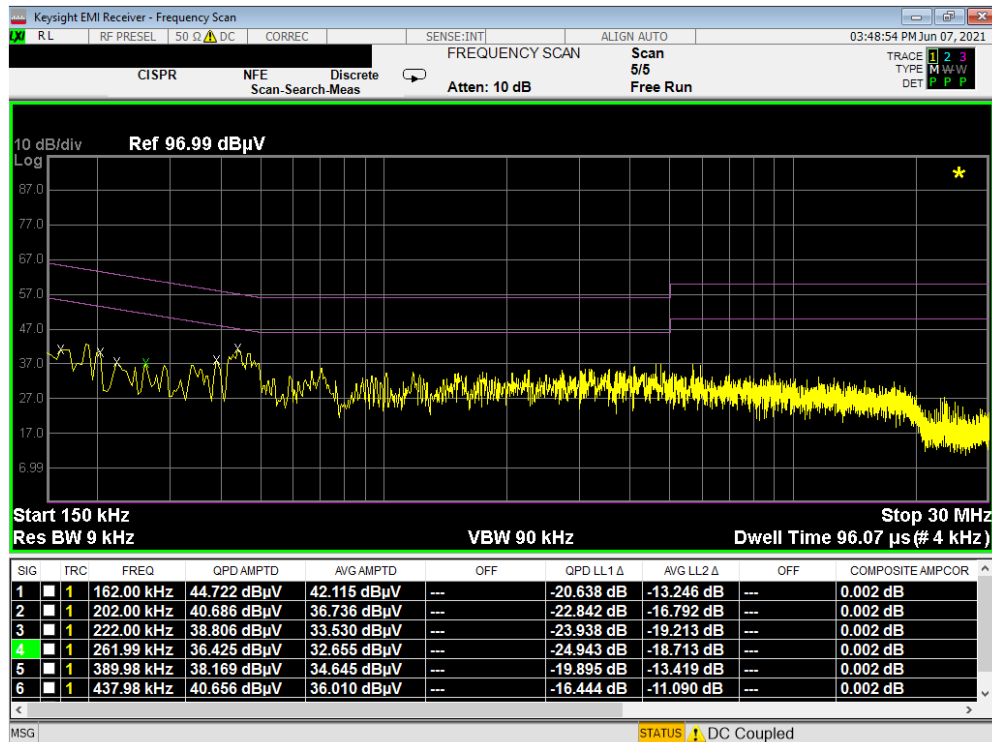


Plot 7-391. Line Conducted Plot with 802.11a UNII Band 5 (N) with WCP

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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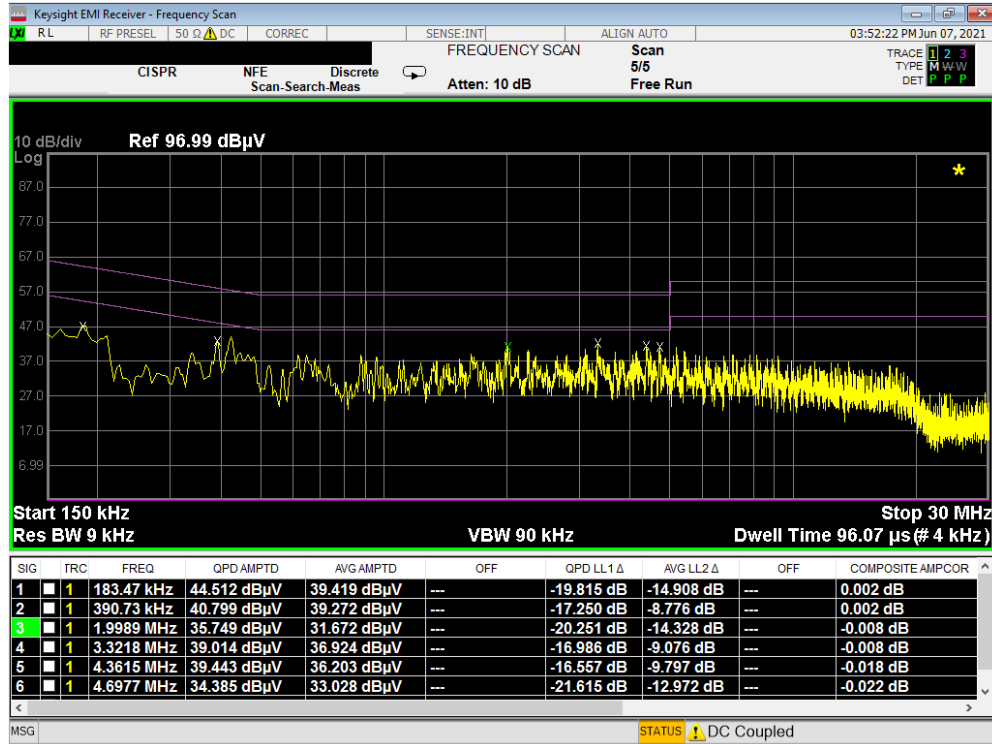


Plot 7-392. Line Conducted Plot with 802.11a UNII Band 6 (L1) with WCP

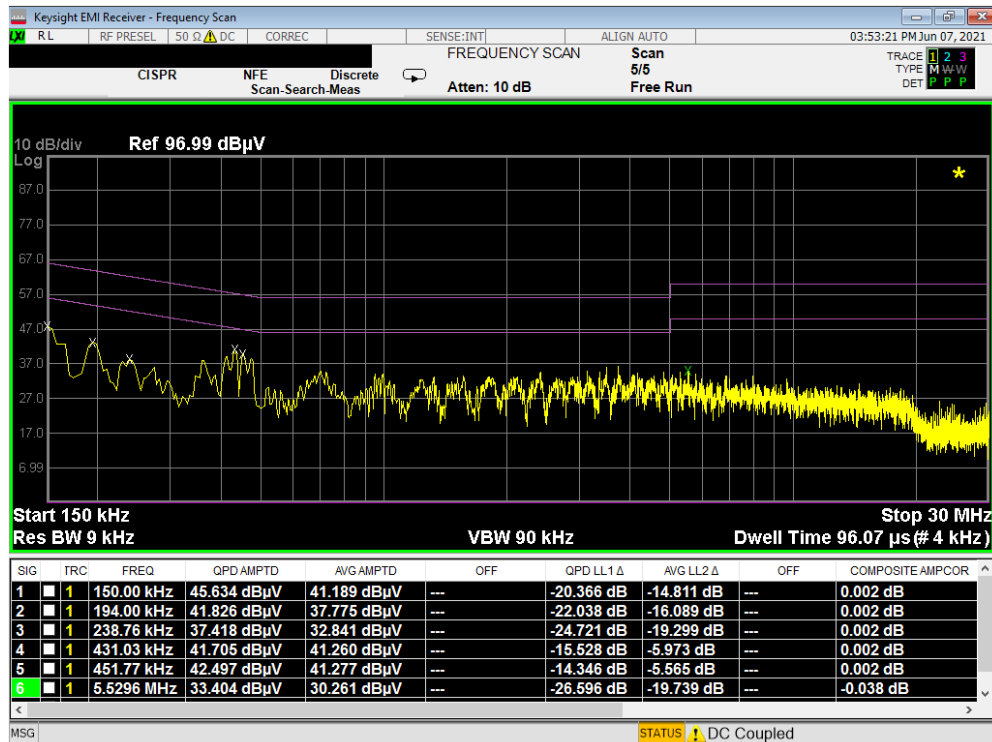


Plot 7-393. Line Conducted Plot with 802.11a UNII Band 6 (N) with WCP

FCC ID: A3LSMF926B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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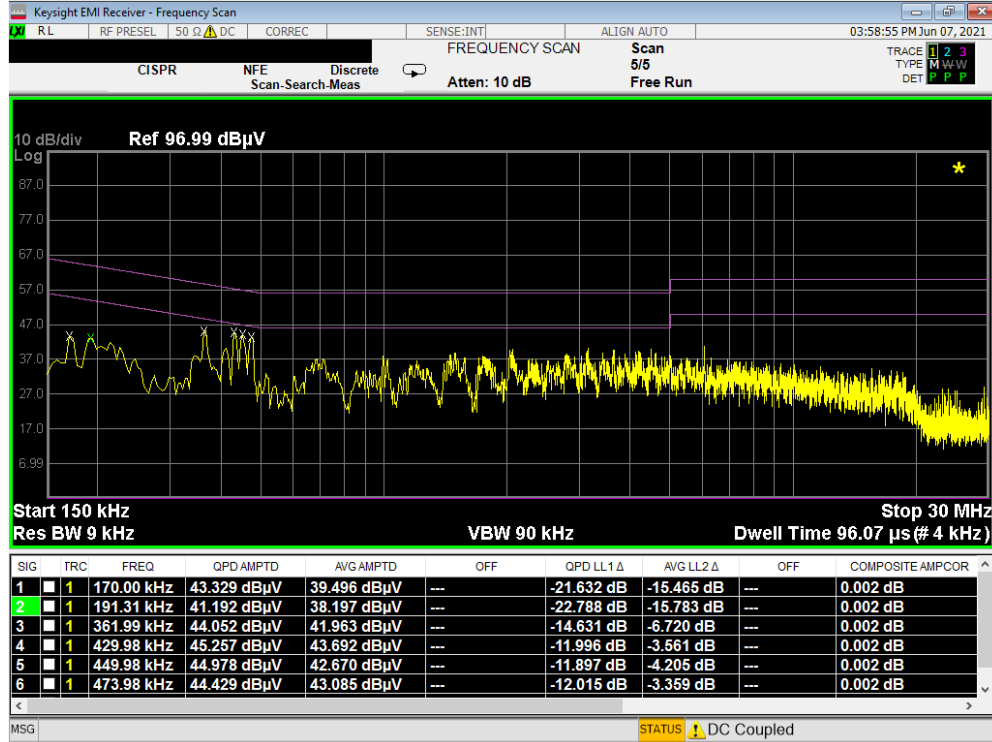


Plot 7-394. Line Conducted Plot with 802.11a UNII Band 7 (L1) with WCP

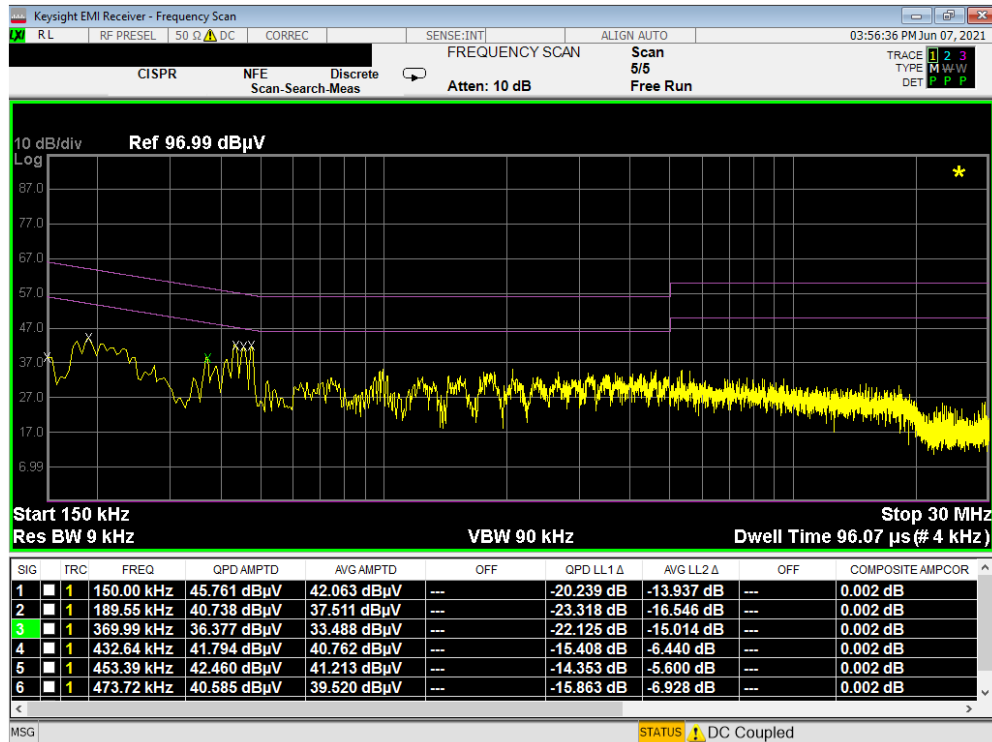


Plot 7-395. Line Conducted Plot with 802.11a UNII Band 7 (N) with WCP

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Plot 7-396. Line Conducted Plot with 802.11a UNII Band 8 (L1) with WCP



Plot 7-397. Line Conducted Plot with 802.11a UNII Band 8 (N) with WCP

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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMF926B** is in compliance with FCC Part 15.407.

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