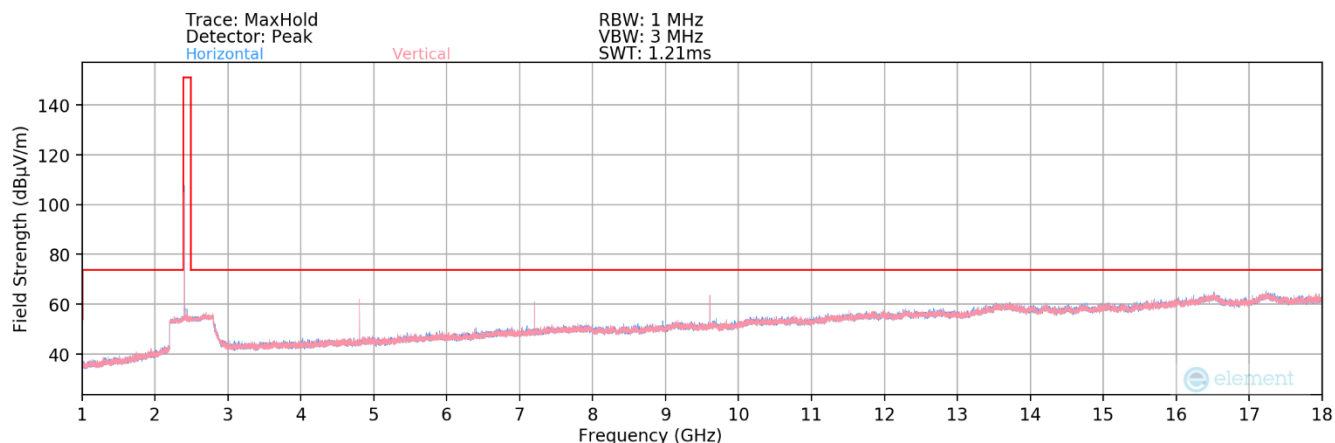
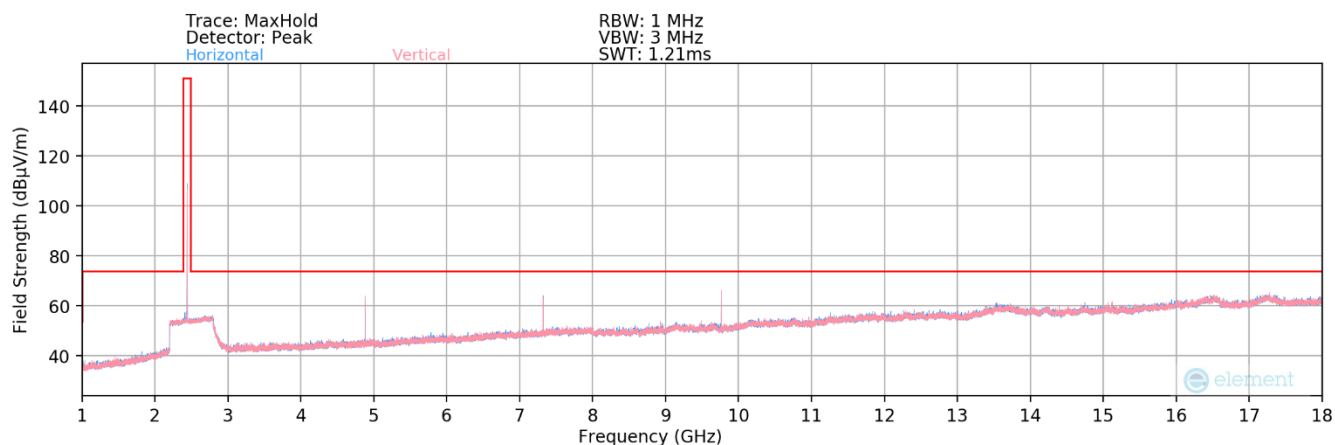


Radiated Spurious Emission Measurements

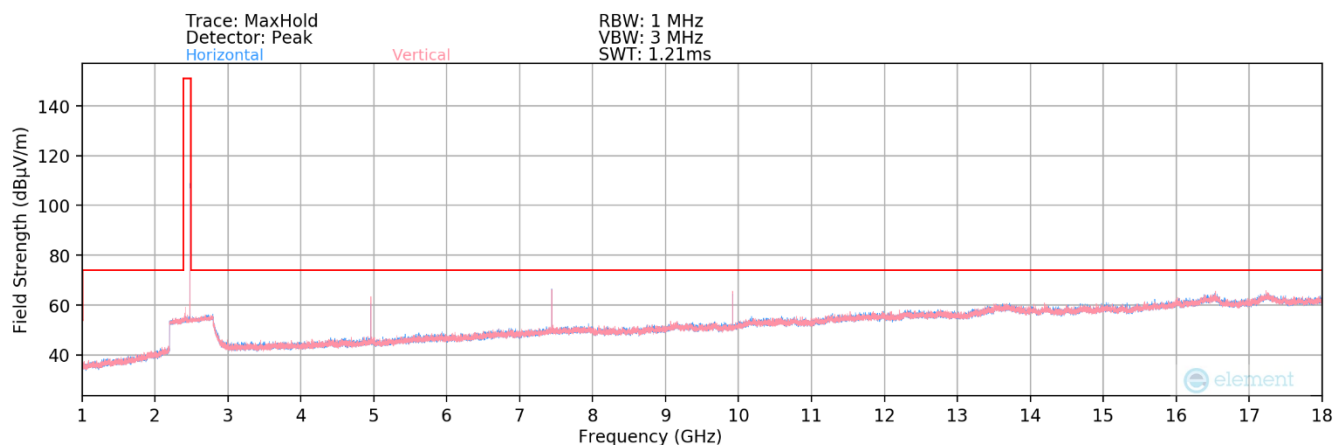
§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]



Plot 7-169. Radiated Spurious Plot above 1GHz (BT – Ch. 0) – Ant 2



Plot 7-170. Radiated Spurious Plot above 1GHz (BT – Ch. 39) – Ant 2

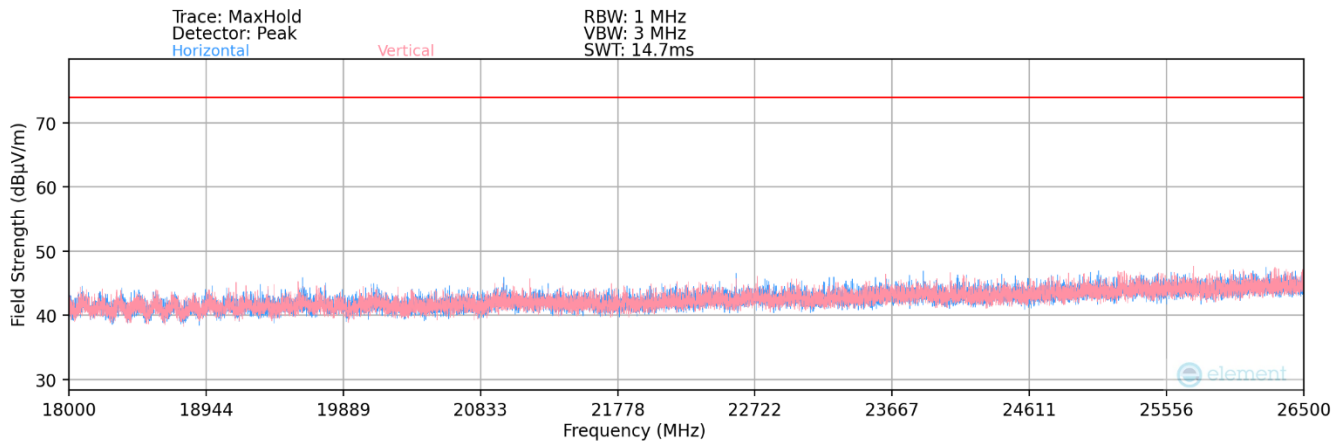


Plot 7-171. Radiated Spurious Plot above 1GHz (BT – Ch. 78) – Ant 2

FCC ID: A3LSMF966U IC: 649E-SMF966W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-16-R2.A3L	Test Dates: 02/24/2025 - 04/11/2025	EUT Type: Portable Handset	Page 119 of 141

Radiated Spurious Emissions Measurements (Above 18GHz)

§15.209; RSS-Gen [8.9]



Plot 7-172. Radiated Spurious Plot above 18GHz – Ant 2

FCC ID: A3LSMF966U IC: 649E-SMF966W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-16-R2.A3L	Test Dates: 02/24/2025 - 04/11/2025	EUT Type: Portable Handset	Page 120 of 141



Radiated Spurious Emission Measurements

§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

Worst Case Mode: Bluetooth
Worst Case Data Rate: 1 Mbps
Measurement Distance: 3 Meters
Operating Frequency: 2402MHz
Channel: 0

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Duty Cycle Correction [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4804.00	Avg	V	129	349	-57.61	9.36	-22.50	36.25	53.98	-17.73
4804.00	Peak	V	129	349	-52.96	9.36	0.00	63.40	73.98	-10.58
12010.00	Avg	V	-	-	-83.59	22.39	0.00	45.80	53.98	-8.18
12010.00	Peak	V	-	-	-72.23	22.39	0.00	57.16	73.98	-16.82

Table 7-19. Radiated Measurements – Ant 2

Worst Case Mode: Bluetooth
Worst Case Data Rate: 1 Mbps
Measurement Distance: 3 Meters
Operating Frequency: 2441MHz
Channel: 39

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Duty Cycle Correction [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4882.00	Avg	V	139	350	-51.52	9.79	-22.50	42.77	53.98	-11.21
4882.00	Peak	V	139	350	-52.42	9.79	0.00	64.37	73.98	-9.61
7323.00	Avg	V	139	350	-63.81	15.17	-22.50	35.86	53.98	-18.12
7323.00	Peak	V	139	350	-58.64	15.17	0.00	63.53	73.98	-10.45
12205.00	Avg	V	-	-	-84.26	22.95	0.00	45.69	53.98	-8.29
12205.00	Peak	V	-	-	-72.95	22.95	0.00	57.00	73.98	-16.98

Table 7-20. Radiated Measurements – Ant 2

FCC ID: A3LSMF966U IC: 649E-SMF966W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-16-R2.A3L	Test Dates: 02/24/2025 - 04/11/2025	EUT Type: Portable Handset	Page 121 of 141

Worst Case Mode: Bluetooth
Worst Case Data Rate: 1 Mbps
Measurement Distance: 3 Meters
Operating Frequency: 2480MHz
Channel: 78

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Duty Cycle Correction [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4960.00	Avg	V	126	349	-53.17	9.74	-22.50	41.07	53.98	-12.91
4960.00	Peak	V	126	349	-52.20	9.74	0.00	64.54	73.98	-9.44
7440.00	Avg	V	141	364	-58.63	15.40	-22.50	41.27	53.98	-12.70
7440.00	Peak	V	141	364	-55.69	15.40	0.00	66.71	73.98	-7.27
12400.00	Avg	V	-	-	-83.87	23.06	0.00	46.19	53.98	-7.79
12400.00	Peak	V	-	-	-72.67	23.06	0.00	57.39	73.98	-16.59

Table 7-21. Radiated Measurements – Ant 2

Worst Case Mode: Bluetooth
Worst Case Data Rate: 1 Mbps
Measurement Distance: 3 Meters
Operating Frequency: 2480MHz
Channel: 78

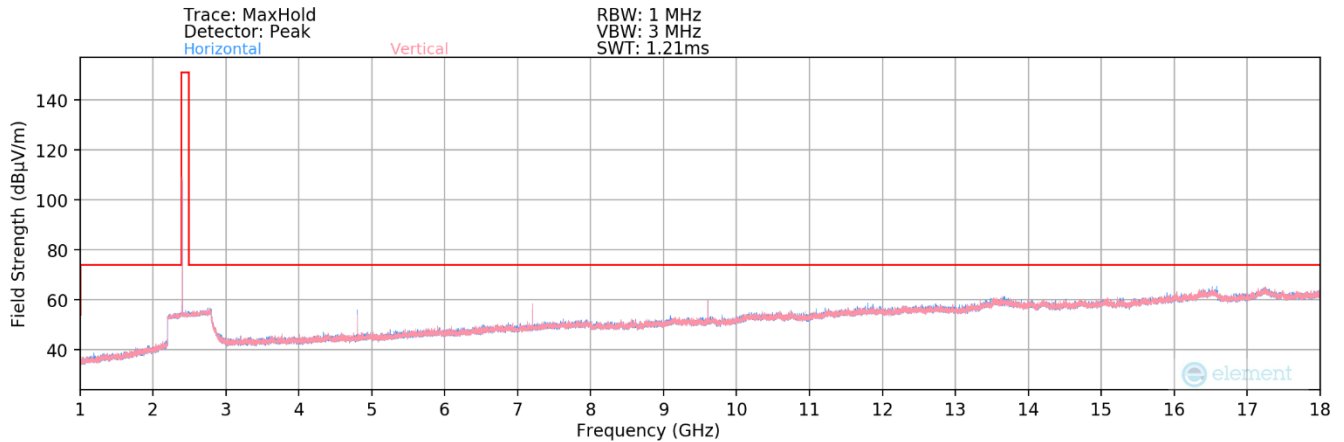
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Duty Cycle Correction [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4960.00	Avg	V	103	358	-53.35	9.74	-22.50	40.89	53.98	-13.09
4960.00	Peak	V	103	358	-52.22	9.74	0.00	64.52	73.98	-9.46
7440.00	Avg	V	108	12	-58.82	15.40	-22.50	41.08	53.98	-12.89
7440.00	Peak	V	108	12	-56.03	15.40	0.00	66.37	73.98	-7.61
12400.00	Avg	V	-	-	-83.98	23.06	0.00	46.08	53.98	-7.90
12400.00	Peak	V	-	-	-72.92	23.06	0.00	57.14	73.98	-16.84

Table 7-22. Radiated Measurements – Ant 2 - WCP

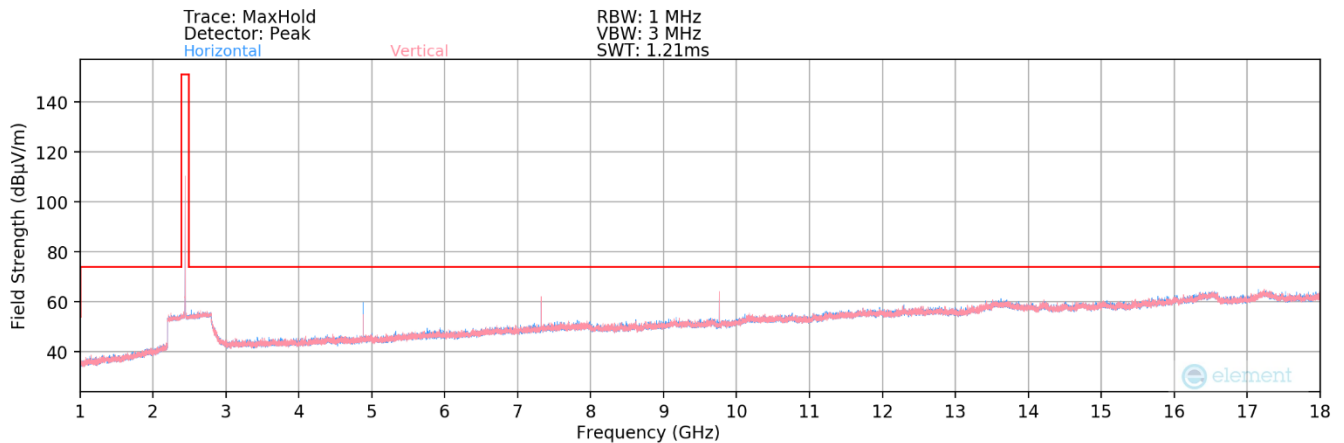
FCC ID: A3LSMF966U IC: 649E-SMF966W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-16-R2.A3L	Test Dates: 02/24/2025 - 04/11/2025	EUT Type: Portable Handset	Page 122 of 141

Radiated Spurious Emission Measurements

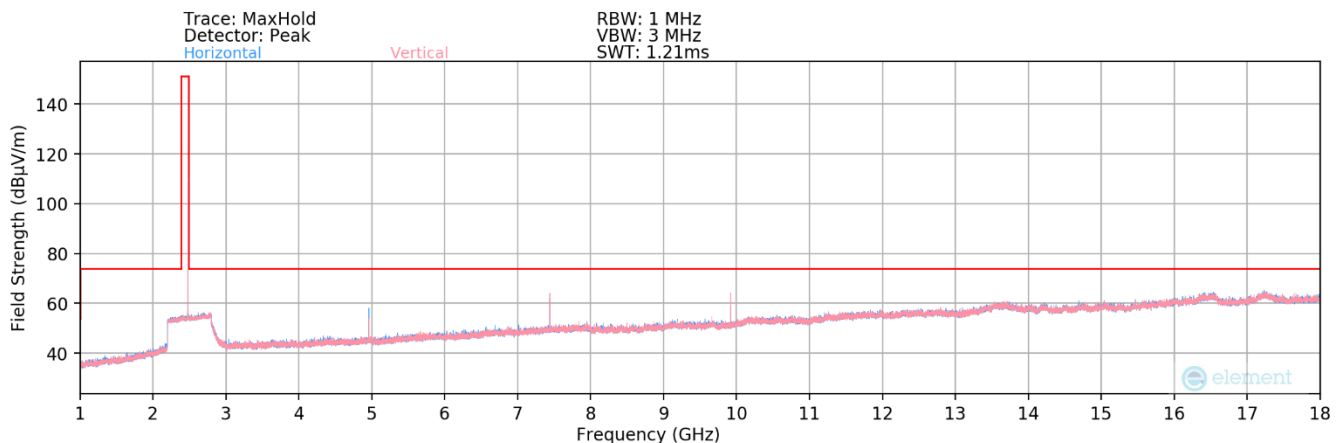
§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]



Plot 7-173. Radiated Spurious Plot above 1GHz (BT – Ch. 0) – Dual



Plot 7-174. Radiated Spurious Plot above 1GHz (BT – Ch. 39) – Dual

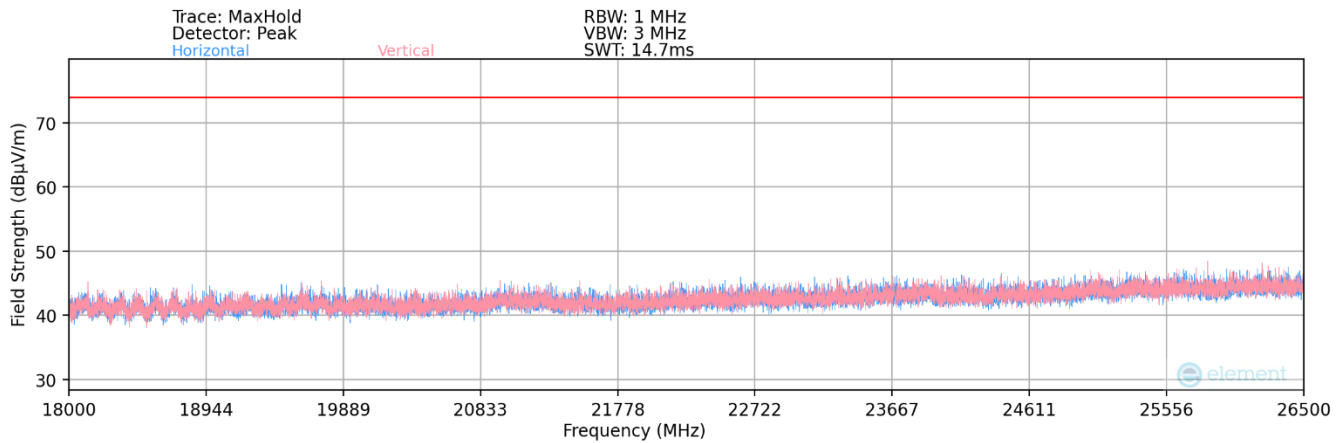


Plot 7-175. Radiated Spurious Plot above 1GHz (BT – Ch. 78) – Dual

FCC ID: A3LSMF966U IC: 649E-SMF966W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-16-R2.A3L	Test Dates: 02/24/2025 - 04/11/2025	EUT Type: Portable Handset	Page 123 of 141

Radiated Spurious Emissions Measurements (Above 18GHz)

§15.209; RSS-Gen [8.9]



Plot 7-176. Radiated Spurious Plot above 18GHz – Dual

FCC ID: A3LSMF966U IC: 649E-SMF966W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-16-R2.A3L	Test Dates: 02/24/2025 - 04/11/2025	EUT Type: Portable Handset	Page 124 of 141



Radiated Spurious Emission Measurements

§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

Worst Case Mode: Bluetooth
Worst Case Data Rate: 1 Mbps
Measurement Distance: 3 Meters
Operating Frequency: 2402MHz
Channel: 0

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Duty Cycle Correction [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4804.00	Avg	V	141	39	-68.41	9.36	-22.50	25.45	53.98	-28.53
4804.00	Peak	V	141	39	-61.97	9.36	0.00	54.39	73.98	-19.59
12010.00	Avg	V	-	-	-83.38	22.39	0.00	46.01	53.98	-7.97
12010.00	Peak	V	-	-	-72.45	22.39	0.00	56.94	73.98	-17.04

Table 7-23. Radiated Measurements – Dual

Worst Case Mode: Bluetooth
Worst Case Data Rate: 1 Mbps
Measurement Distance: 3 Meters
Operating Frequency: 2441MHz
Channel: 39

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Duty Cycle Correction [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4882.00	Avg	V	128	30	-69.66	9.79	-22.50	24.63	53.98	-29.35
4882.00	Peak	V	128	30	-62.72	9.79	0.00	54.07	73.98	-19.91
7323.00	Avg	V	128	33	-69.85	15.17	-22.50	29.82	53.98	-24.16
7323.00	Peak	V	128	33	-64.07	15.17	0.00	58.10	73.98	-15.88
12205.00	Avg	V	-	-	-84.03	22.95	0.00	45.92	53.98	-8.06
12205.00	Peak	V	-	-	-73.55	22.95	0.00	56.40	73.98	-17.58

Table 7-24. Radiated Measurements – Dual

FCC ID: A3LSMF966U IC: 649E-SMF966W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-16-R2.A3L	Test Dates: 02/24/2025 - 04/11/2025	EUT Type: Portable Handset	Page 125 of 141

Worst Case Mode: Bluetooth
Worst Case Data Rate: 1 Mbps
Measurement Distance: 3 Meters
Operating Frequency: 2480MHz
Channel: 78

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Duty Cycle Correction [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4960.00	Avg	V	123	21	-66.69	9.74	-22.50	27.55	53.98	-26.43
4960.00	Peak	V	123	21	-62.56	9.74	0.00	54.18	73.98	-19.80
7440.00	Avg	V	118	12	-59.14	15.40	-22.50	40.76	53.98	-13.21
7440.00	Peak	V	118	12	-62.82	15.40	0.00	59.58	73.98	-14.40
12400.00	Avg	V	-	-	-83.72	23.06	0.00	46.34	53.98	-7.64
12400.00	Peak	V	-	-	-72.51	23.06	0.00	57.55	73.98	-16.43

Table 7-25. Radiated Measurements – Dual

Worst Case Mode: Bluetooth
Worst Case Data Rate: 1 Mbps
Measurement Distance: 3 Meters
Operating Frequency: 2480MHz
Channel: 78

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Duty Cycle Correction [dB]	Dist. Corr. Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4960.00	Avg	V	315	181	-73.22	3.05	-22.50	0.00	14.33	53.98	-39.65
4960.00	Peak	V	315	181	-64.07	3.05	0.00	0.00	45.98	73.98	-28.00
7440.00	Avg	V	249	81	-77.08	9.19	-22.50	0.00	16.61	53.98	-37.37
7440.00	Peak	V	249	81	-66.34	9.19	0.00	0.00	49.85	73.98	-24.13
12400.00	Avg	V	-	-	-80.87	13.27	0.00	0.00	39.40	53.98	-14.58
12400.00	Peak	V	-	-	-68.26	13.27	0.00	0.00	52.01	73.98	-21.97

Table 7-26. Radiated Measurements with WCP – Dual

FCC ID: A3LSMF966U IC: 649E-SMF966W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-16-R2.A3L	Test Dates: 02/24/2025 - 04/11/2025	EUT Type: Portable Handset	Page 126 of 141

7.10 Radiated Restricted Band Edge Measurements

§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated emissions at the band edge are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at maximum power, at the appropriate frequencies, and with hopping disabled. Only the radiated emissions of the configuration that produced the worst-case emissions are reported in this section.

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

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

Table 7-27. Radiated Limits

Test Procedure Used

ANSI C63.10-2013 – Section 6.10.5.2

Test Settings

- Span is set large enough to capture the peak level of the emission operating on the channel closest to the band edge
- Reference level offset is set with the appropriate corrections for the frequencies shown in the plots
- Reference level is set to provide the appropriate amount of “head room” above the signal as specified in ANSI C63.10-2013 Section 4.1.5.2
- Attenuation is set to a low enough level to maintain enough dynamic range between the noise floor and the radiated limit
- Sweep time = Auto coupled
- RBW = 1MHz
- VBW = 3 x RBW for peak measurements and 1kHz for RMS measurements
- Detector = RMS and peak
- Trace = Max Hold
- Trace was allowed to stabilize

FCC ID: A3LSMF966U IC: 649E-SMF966W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-16-R2.A3L	Test Dates: 02/24/2025 - 04/11/2025	EUT Type: Portable Handset	Page 127 of 141

Test Setup

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

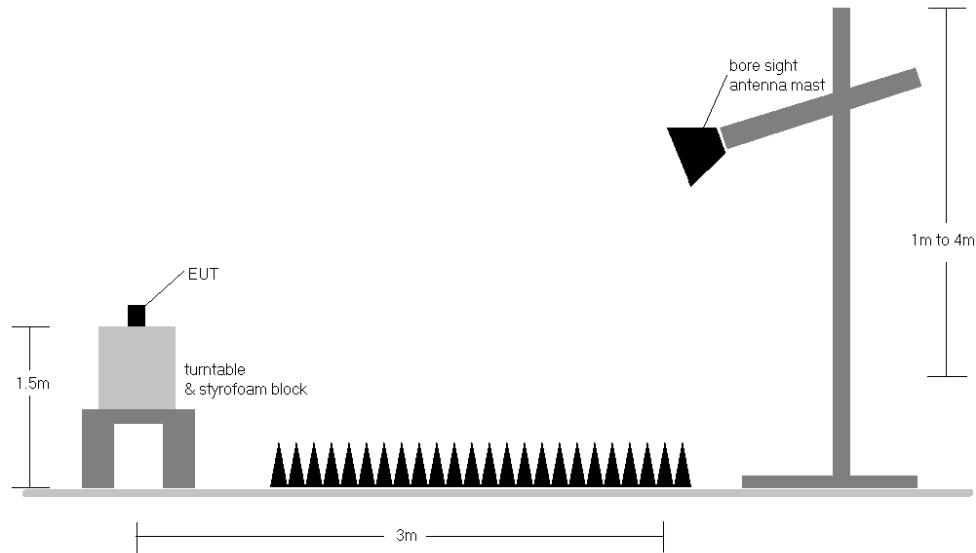


Figure 7-9. Radiated Test Setup >1GHz

Test Notes

1. All emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limits shown in §15.209.
2. No significant radiated emissions were found in the 2310 - 2390MHz restricted band.
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 and the worst-case emissions are reported.
6. Two different amplitude offsets were used depending on whether peak or average measurements were measured. The average measurements use a duty cycle correction factor (DCCF).

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain} + \text{DCCF}$$

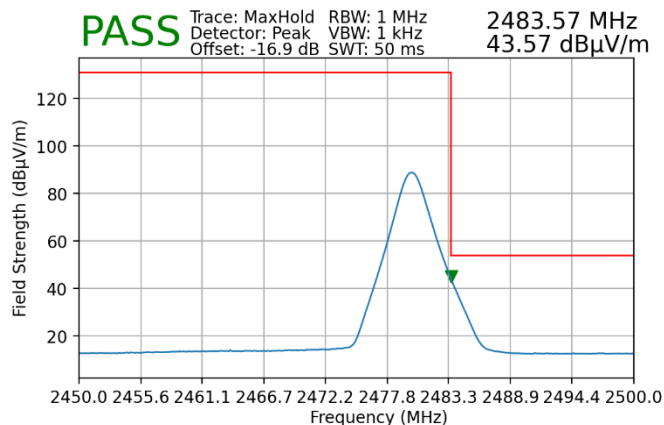
7. The "-" shown in the following RSE tables is used to denote a noise floor measurement.

FCC ID: A3LSMF966U IC: 649E-SMF966W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-16-R2.A3L	Test Dates: 02/24/2025 - 04/11/2025	EUT Type: Portable Handset	Page 128 of 141

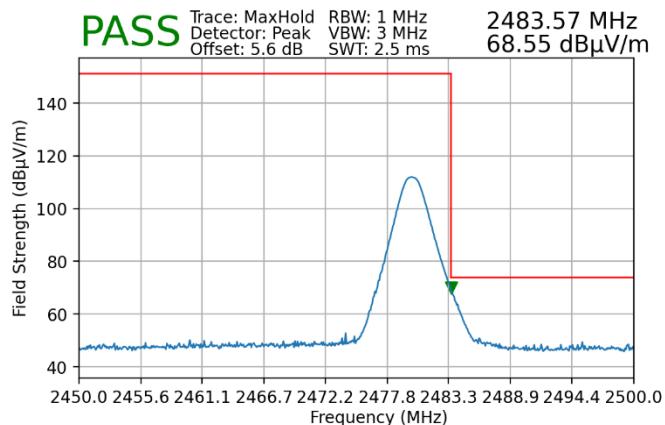
Radiated Restricted Band Edge Measurements – Ant 1

§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

Worst Case Mode:	Bluetooth
Worst Case Data Rate:	1 Mbps
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



Plot 7-177. Radiated Restricted Upper Band Edge Measurement (Average)



Plot 7-178. Radiated Restricted Upper Band Edge Measurement (Peak)

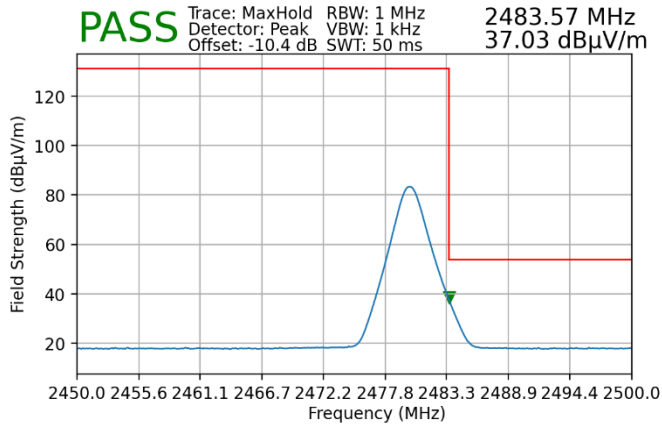
FCC ID: A3LSMF966U IC: 649E-SMF966W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-16-R2.A3L	Test Dates: 02/24/2025 - 04/11/2025	EUT Type: Portable Handset	Page 129 of 141



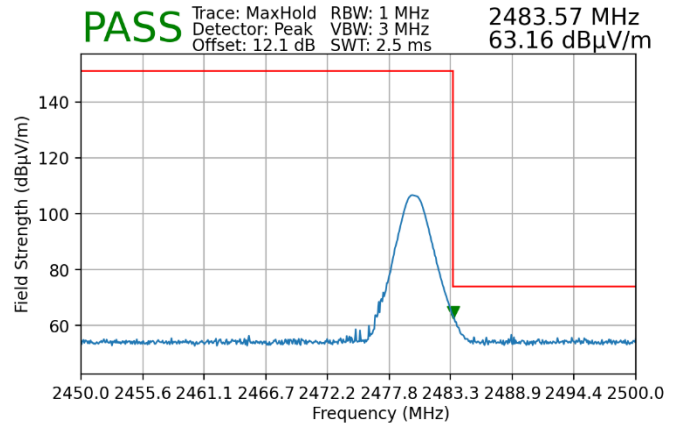
Radiated Restricted Band Edge Measurements – Ant 2

§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

Worst Case Mode:	Bluetooth
Worst Case Data Rate:	1 Mbps
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



Plot 7-179. Radiated Restricted Upper Band Edge Measurement (Average)



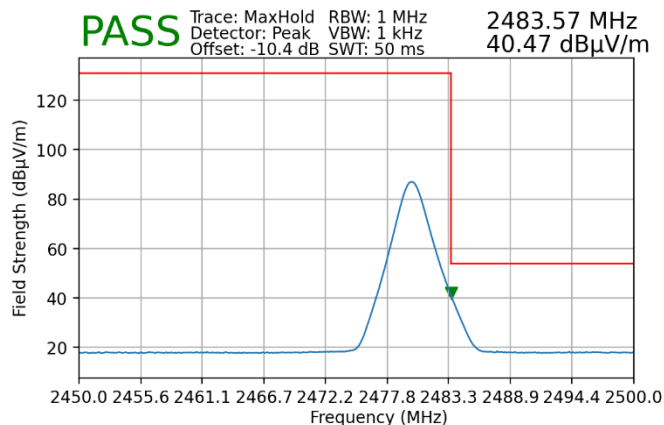
Plot 7-180. Radiated Restricted Upper Band Edge Measurement (Peak)

FCC ID: A3LSMF966U IC: 649E-SMF966W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-16-R2.A3L	Test Dates: 02/24/2025 - 04/11/2025	EUT Type: Portable Handset	Page 130 of 141

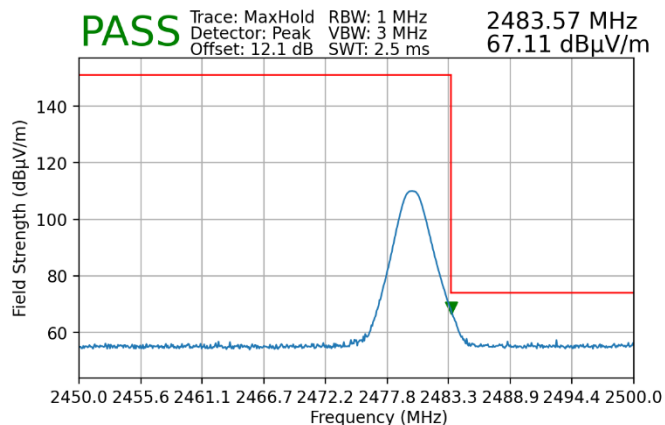
Radiated Restricted Band Edge Measurements – Dual

§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

Worst Case Mode:	Bluetooth
Worst Case Data Rate:	1 Mbps
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



Plot 7-181. Radiated Restricted Upper Band Edge Measurement (Average)



Plot 7-182. Radiated Restricted Upper Band Edge Measurement (Peak)

FCC ID: A3LSMF966U IC: 649E-SMF966W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-16-R2.A3L	Test Dates: 02/24/2025 - 04/11/2025	EUT Type: Portable Handset	Page 131 of 141

7.11 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 must not exceed the limits shown below per Section 15.209 and RSS-Gen (8.9).

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

Table 7-28. 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: A3LSMF966U IC: 649E-SMF966W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-16-R2.A3L	Test Dates: 02/24/2025 - 04/11/2025	EUT Type: Portable Handset	Page 132 of 141

Test Setup

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

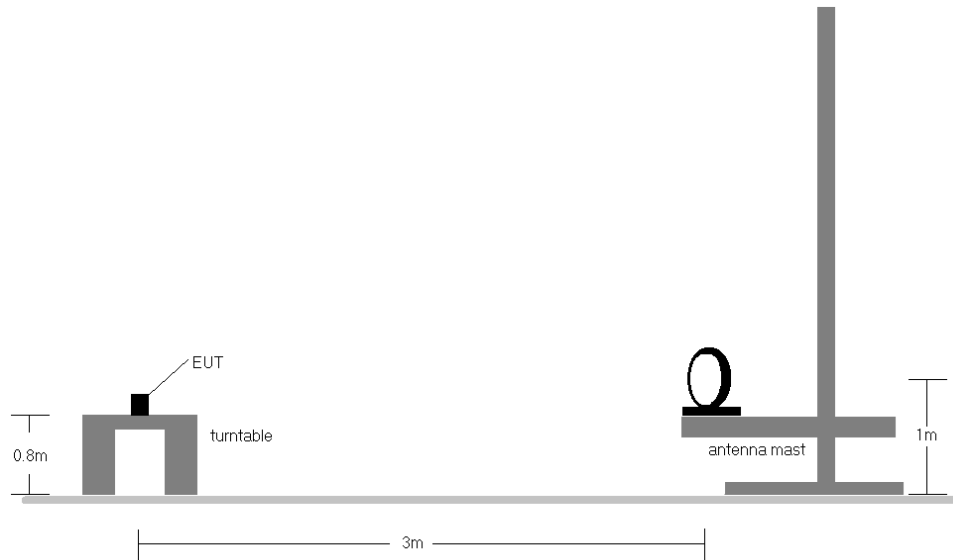


Figure 7-10. Radiated Test Setup < 30Mhz

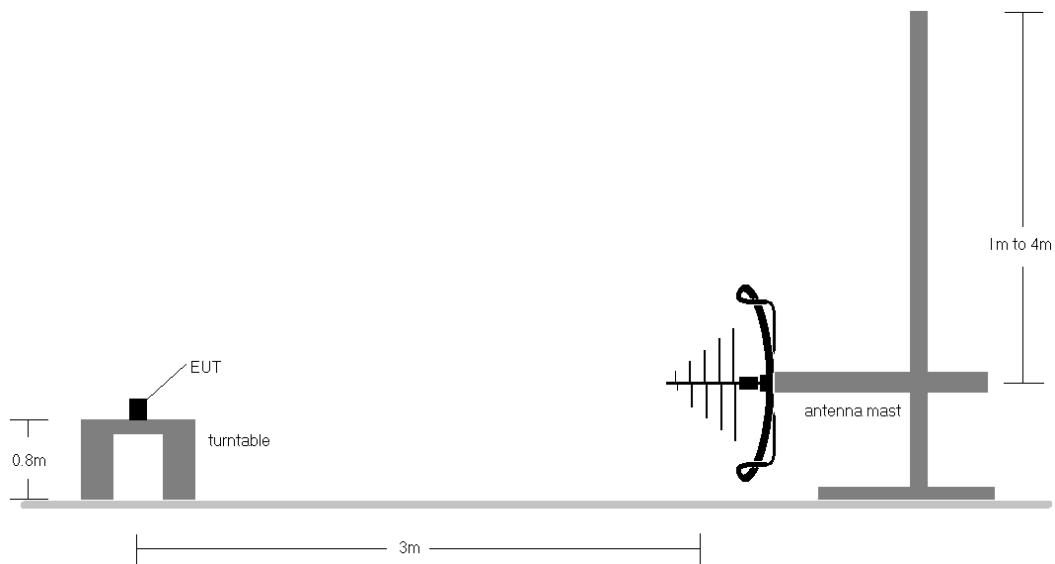


Figure 7-11. Radiated Test Setup < 1GHz

FCC ID: A3LSMF966U IC: 649E-SMF966W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-16-R2.A3L	Test Dates: 02/24/2025 - 04/11/2025	EUT Type: Portable Handset	Page 133 of 141

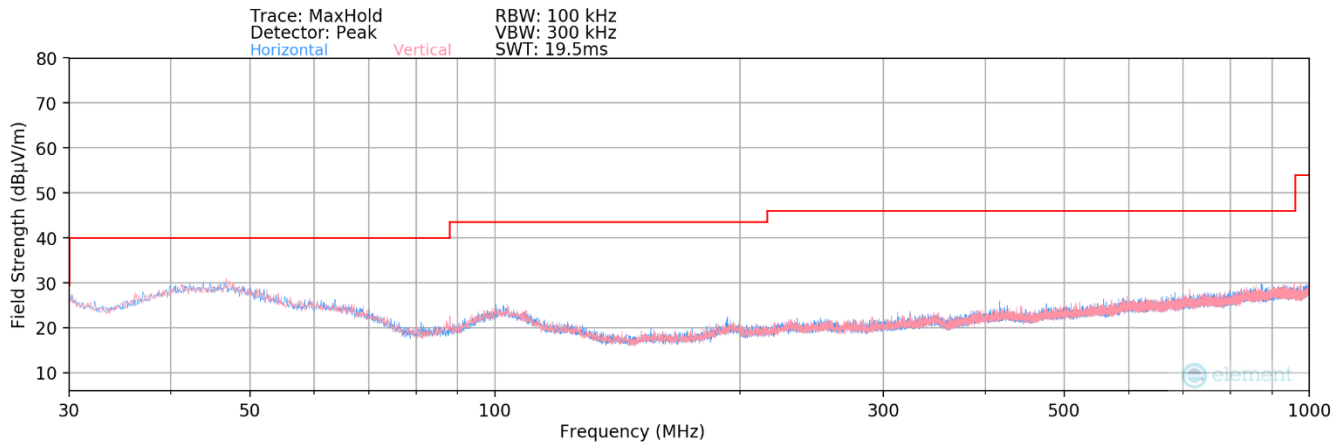
Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limits shown in §15.209.
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)

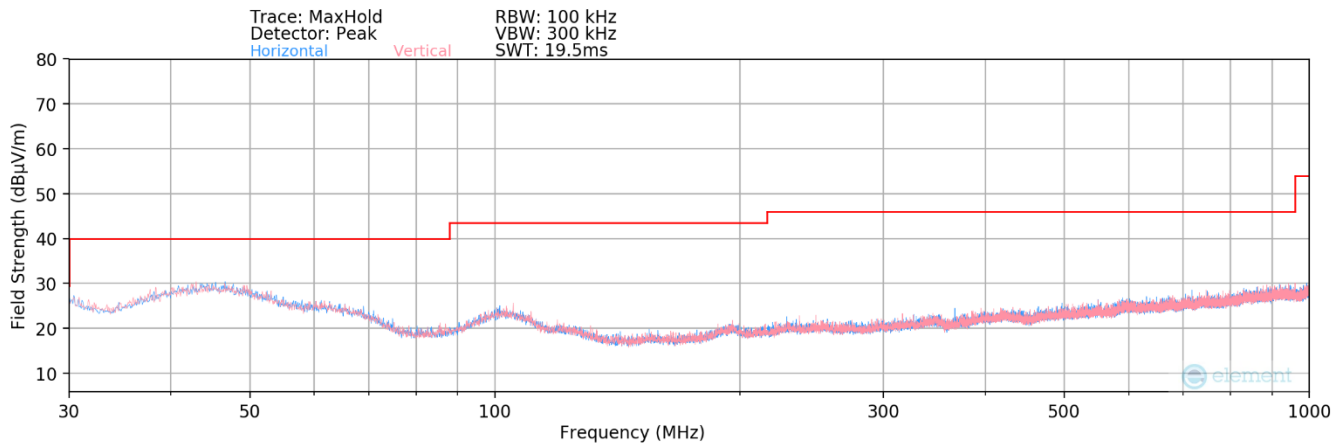
§15.209; RSS-Gen [8.9]



Plot 7-183. Radiated Spurious Plot below 1GHz – Ant 1

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
423.30	Quasi-Peak	V	-	-	-96.31	24.08	34.77	46.02	-11.25

Table 7-29. Radiated Spurious Emissions Below 1GHz – Ant 1

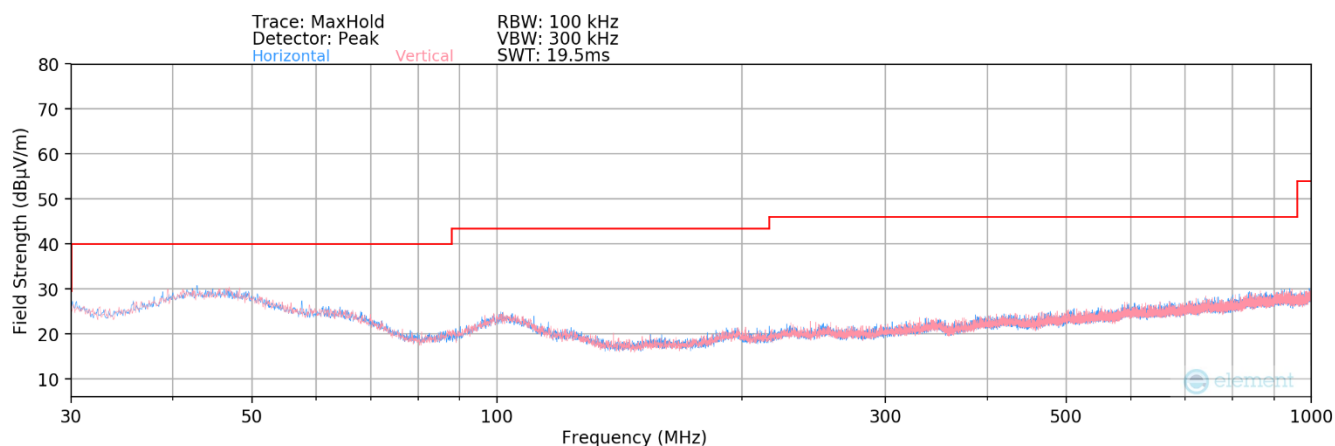


Plot 7-184. Radiated Spurious Plot below 1GHz – Ant 2

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
105.30	Quasi-Peak	V	-	-	-95.46	18.69	30.23	43.52	-13.29

Table 7-30. Radiated Spurious Emissions Below 1GHz – Ant 2

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Plot 7-185. Radiated Spurious Plot below 1GHz – Dual

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
248.70	Quasi-Peak	V	-	-	-97.04	18.90	28.86	46.02	-17.17

Table 7-31. Radiated Spurious Emissions Below 1GHz – Dual

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7.12 Line Conducted Measurement Data

§15.207; 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 7-32. 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.

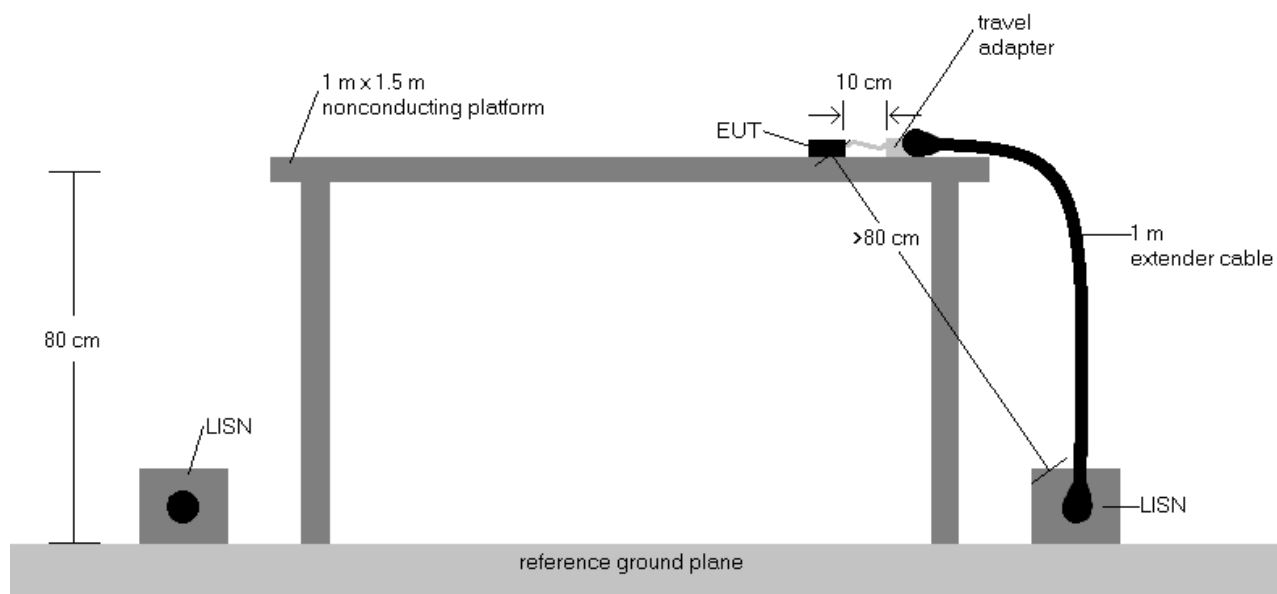
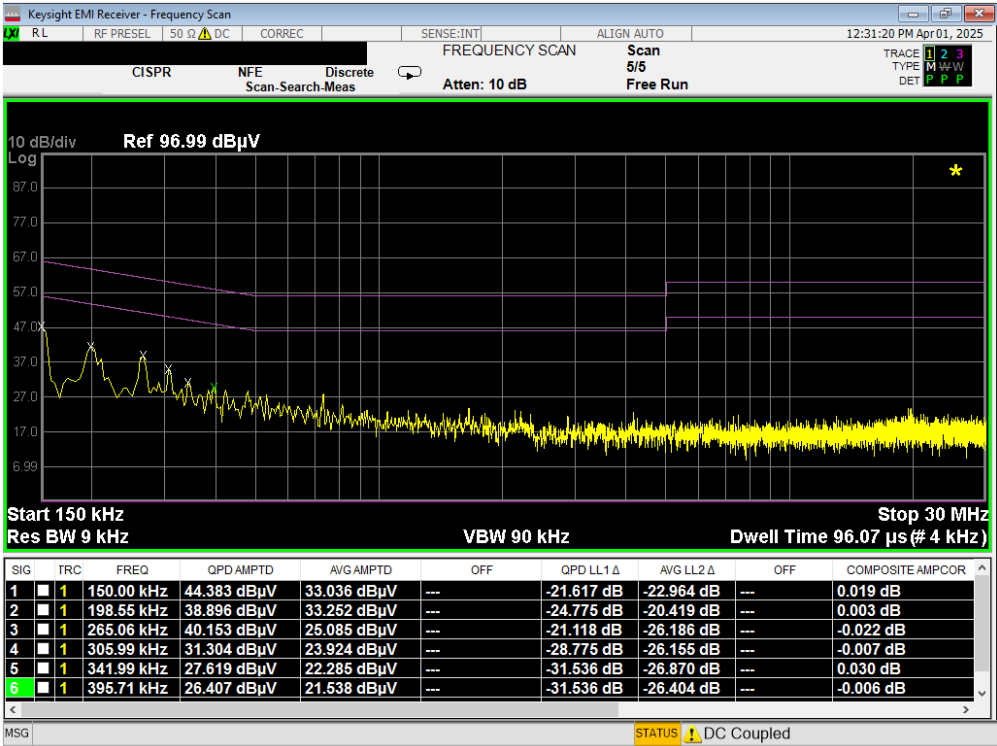


Figure 7-12. Test Instrument & Measurement Setup

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. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
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 7-186. Line-Conducted Test Plot (L1)

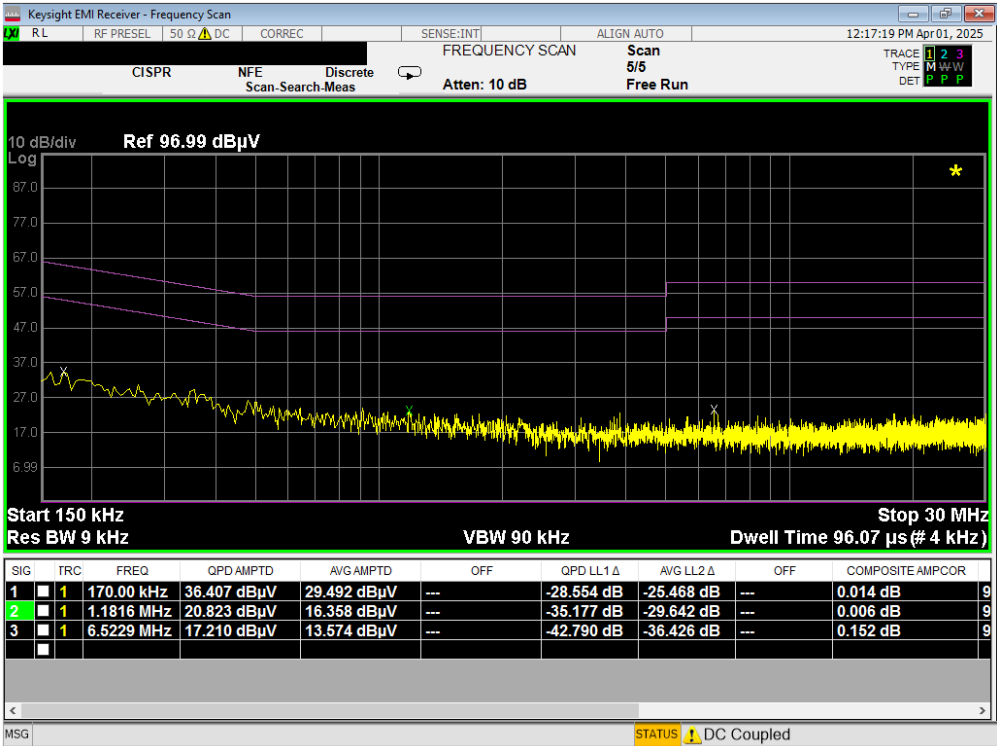
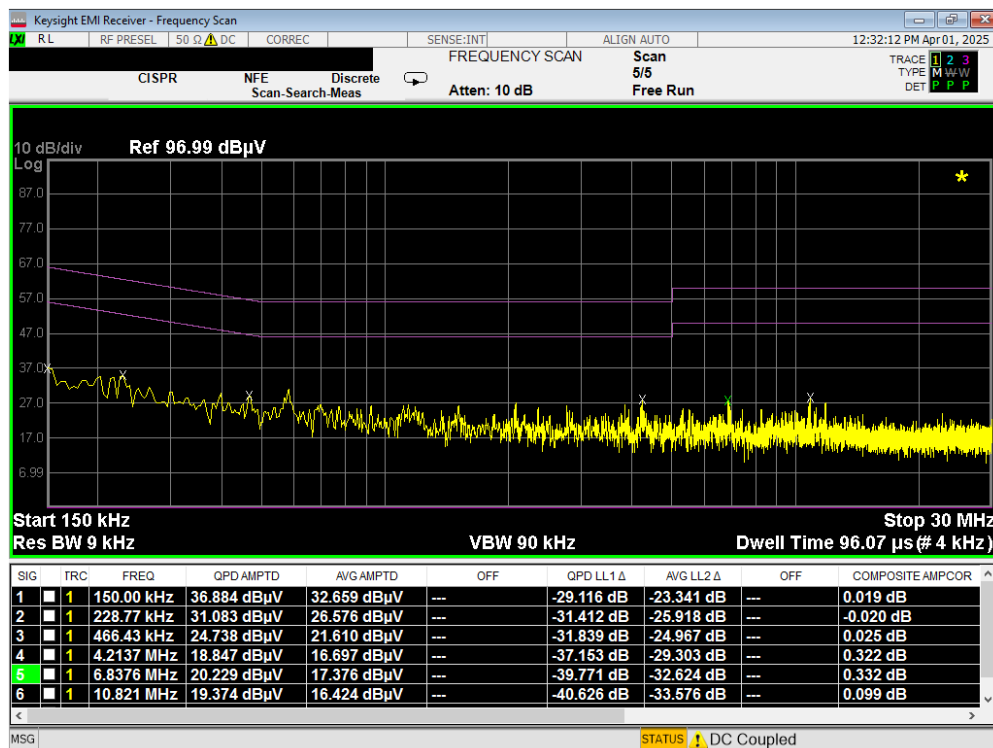


Table 7-33. Line-Conducted Test Data (N)

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Plot 7-187. Line-Conducted Test Plot (L1) - WCP

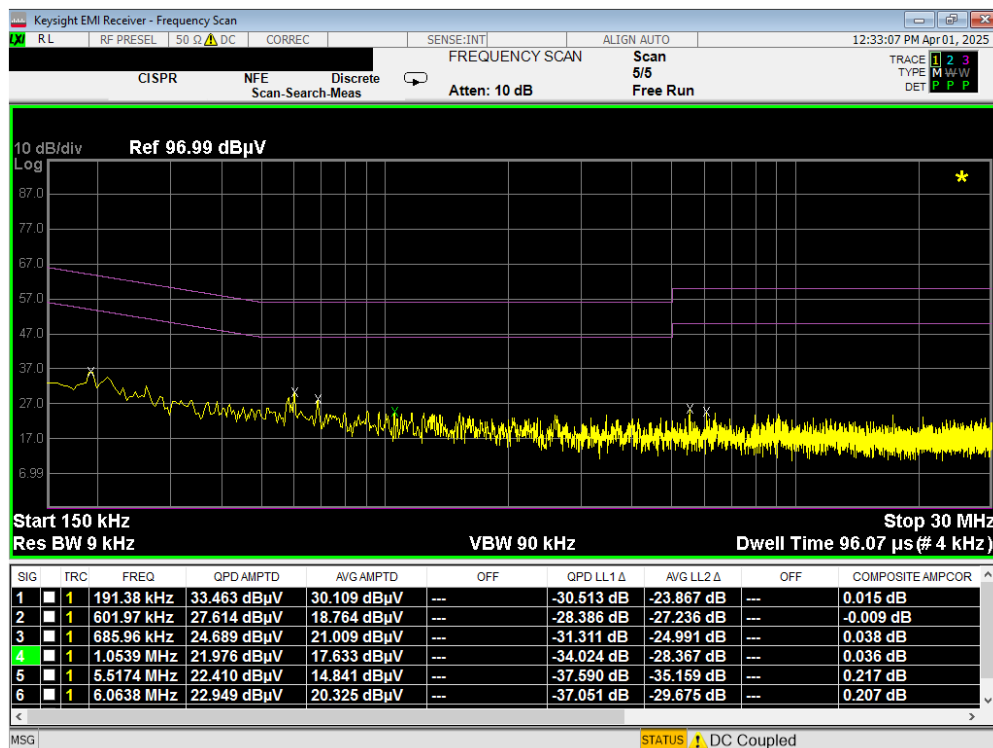


Table 7-34. Line-Conducted Test Data (N) - WCP

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMF966U** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS-247 of the ISED rules.

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