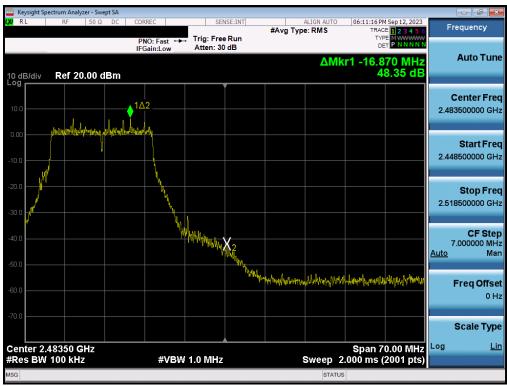


Plot 7-101. Band Edge Plot SISO ANT1 (802.11n (2.4GHz) - Ch. 1)

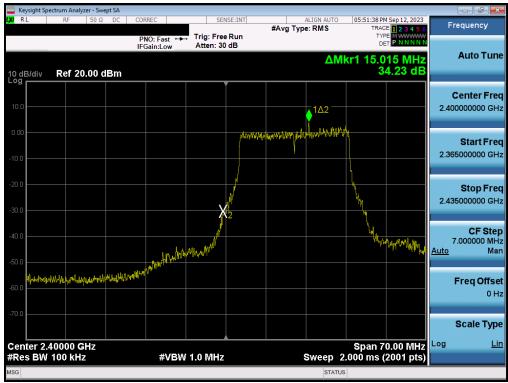


Plot 7-102. Band Edge Plot SISO ANT1 (802.11n (2.4GHz) - Ch. 11)

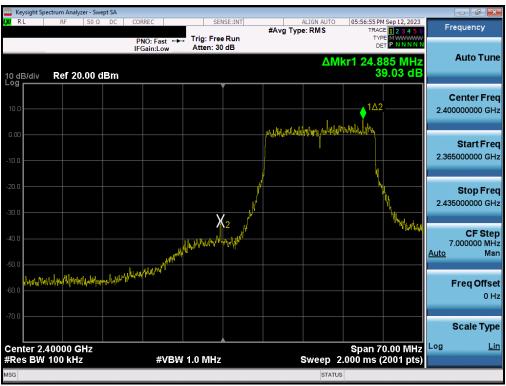
FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 70 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 79 of 126

© 2023 ELEMENT V11.0 07/06/2023





Plot 7-103. Band Edge Plot SISO ANT1 (802.11be (2.4GHz) - Ch. 1)

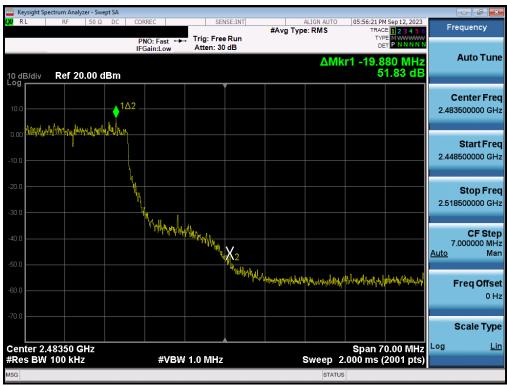


Plot 7-104. Band Edge Plot SISO ANT1 (802.11be (2.4GHz) - Ch. 2)

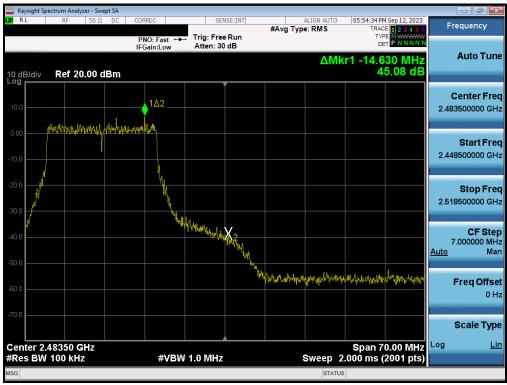
FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 80 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	rage ou ul 120

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Plot 7-105. Band Edge Plot SISO ANT1 (802.11be (2.4GHz) - Ch. 10)

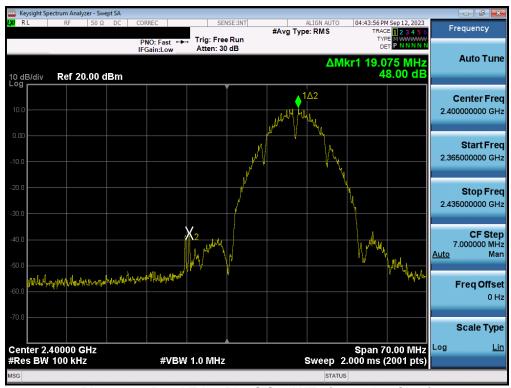


Plot 7-106. Band Edge Plot SISO ANT1 (802.11be (2.4GHz) - Ch. 11)

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 91 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 81 of 126



7.5.2 SISO Antenna-2 Conducted Band Edge Emissions



Plot 7-107. Band Edge Plot SISO ANT2 (802.11b - Ch. 1)



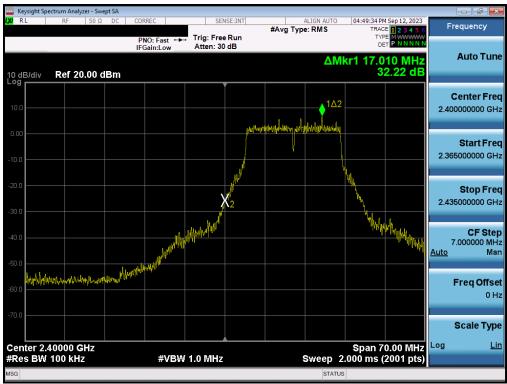
Plot 7-108. Band Edge Plot SISO ANT2 (802.11b - Ch. 11)

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 92 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 82 of 126

© 2023 ELEMENT

V11.0 07/06/2023





Plot 7-109. Band Edge Plot SISO ANT2 (802.11g- Ch. 1)

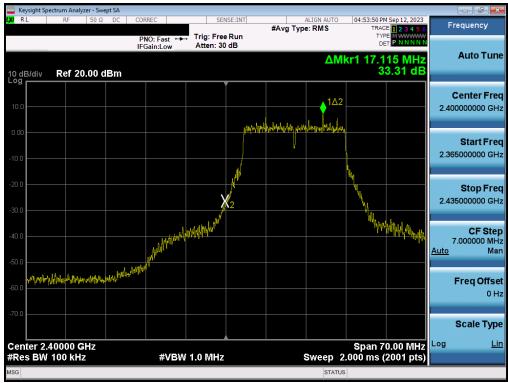


Plot 7-110. Band Edge Plot SISO ANT2 (802.11g - Ch. 11)

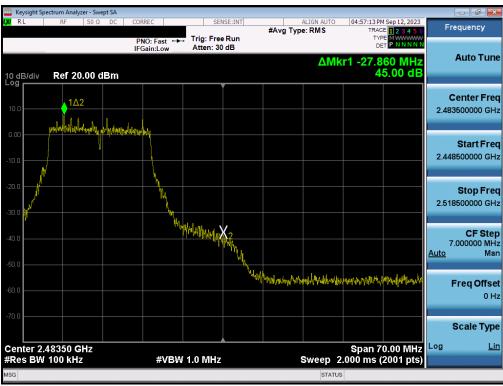
FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 92 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 83 of 126

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Plot 7-111. Band Edge Plot SISO ANT2 (802.11n (2.4GHz) - Ch. 1)



Plot 7-112. Band Edge Plot SISO ANT2 (802.11n (2.4GHz) - Ch. 11)

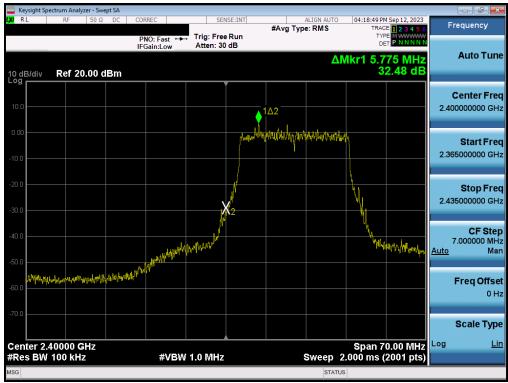
FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 84 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Fage 04 01 120

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V11.0 07/06/2023

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Plot 7-113. Band Edge Plot SISO ANT2 (802.11be (2.4GHz) - Ch. 1)

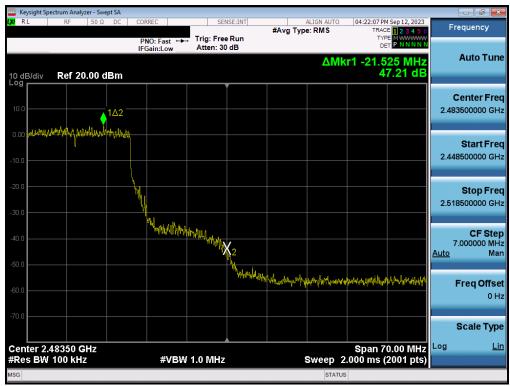


Plot 7-114. Band Edge Plot SISO ANT2 (802.11be (2.4GHz) - Ch. 2)

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 95 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 85 of 126

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Plot 7-115. Band Edge Plot SISO ANT2 (802.11be (2.4GHz) - Ch. 10)



Plot 7-116. Band Edge Plot SISO ANT2 (802.11be (2.4GHz) - Ch. 11)

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 96 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 86 of 126



7.5.3 MIMO Conducted Band Edge Emissions



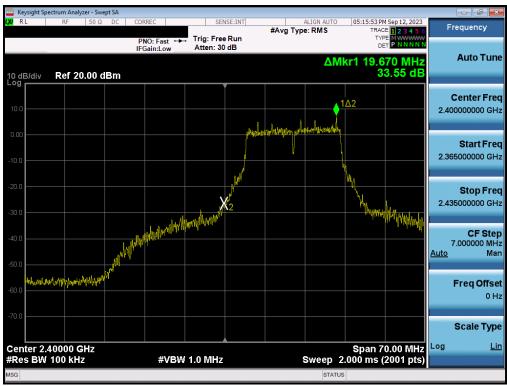
Plot 7-117. Band Edge Plot MIMO ANT1 (802.11b - Ch. 1)



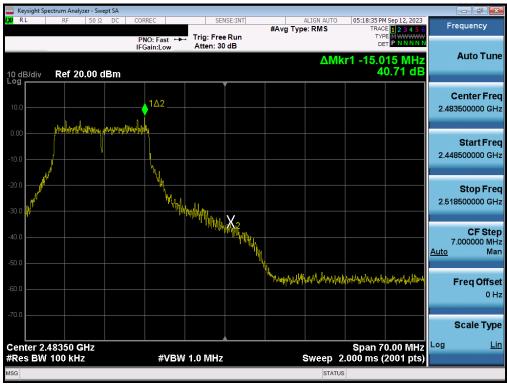
Plot 7-118. Band Edge Plot MIMO ANT1 (802.11b - Ch. 11)

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 97 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 87 of 126





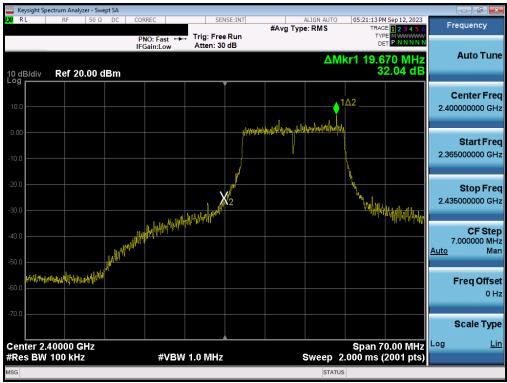
Plot 7-119. Band Edge Plot MIMO ANT1 (802.11g- Ch. 1)



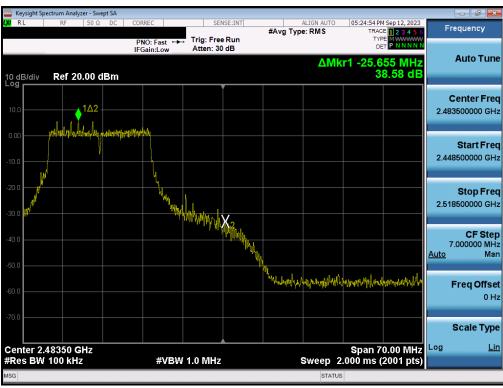
Plot 7-120. Band Edge Plot MIMO ANT1 (802.11g - Ch. 11)

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 99 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 88 of 126





Plot 7-121. Band Edge Plot MIMO ANT1 (802.11n (2.4GHz) - Ch. 1)



Plot 7-122. Band Edge Plot MIMO ANT1 (802.11n (2.4GHz) - Ch. 11)

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 89 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	rage of 01 120

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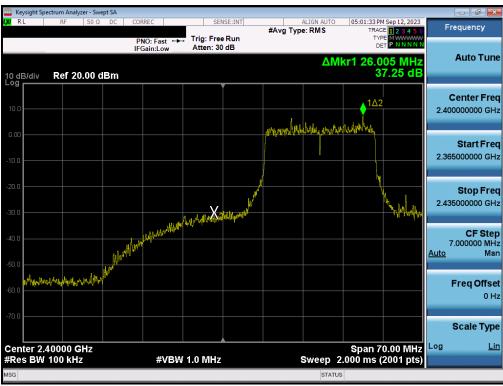
V11.0 07/06/2023

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Plot 7-123. Band Edge Plot MIMO ANT1 (802.11be (2.4GHz) - Ch. 1)



Plot 7-124. Band Edge Plot MIMO ANT1 (802.11be (2.4GHz) - Ch. 2)

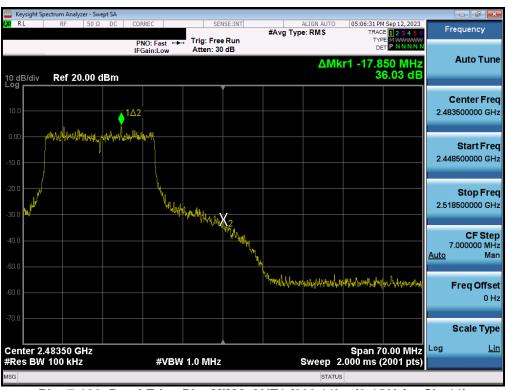
FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 90 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	rage 90 of 126

© 2023 ELEMENT V11.0 07/06/2023





Plot 7-125. Band Edge Plot MIMO ANT1 (802.11be (2.4GHz) - Ch. 10)



Plot 7-126. Band Edge Plot MIMO ANT1 (802.11be (2.4GHz) - Ch. 11)

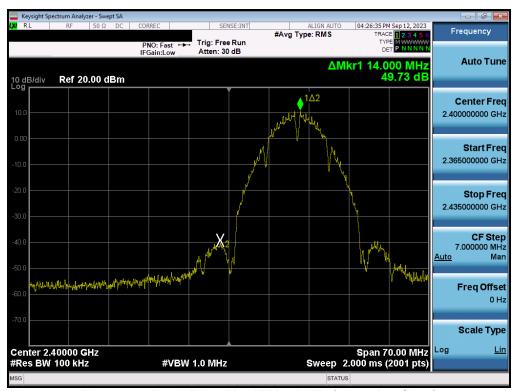
FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 01 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 91 of 126

© 2023 ELEMENT

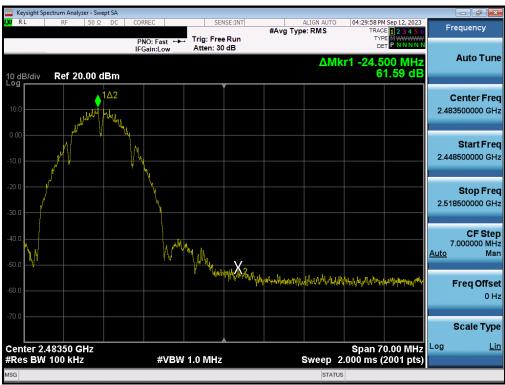
V11.0 07/06/2023

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Plot 7-127. Band Edge Plot MIMO ANT2 (802.11b - Ch. 1)



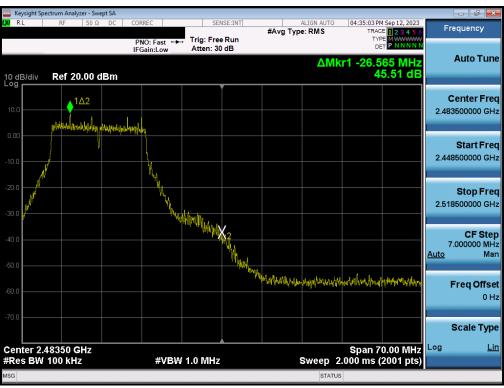
Plot 7-128. Band Edge Plot MIMO ANT2 (802.11b - Ch. 11)

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 02 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 92 of 126





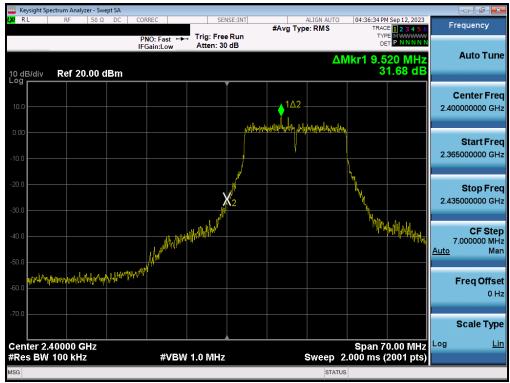
Plot 7-129. Band Edge Plot MIMO ANT2 (802.11g- Ch. 1)



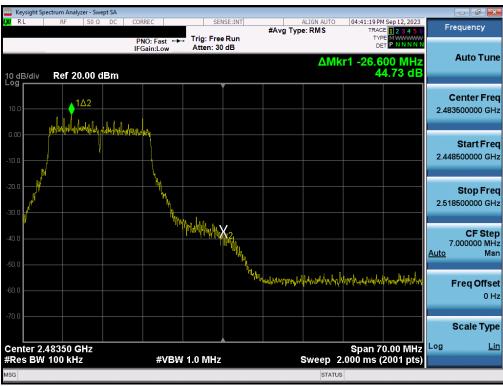
Plot 7-130. Band Edge Plot MIMO ANT2 (802.11g - Ch. 11)

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 93 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Fage 95 01 126





Plot 7-131. Band Edge Plot MIMO ANT2 (802.11n (2.4GHz) - Ch. 1)



Plot 7-132. Band Edge Plot MIMO ANT2 (802.11n (2.4GHz) - Ch. 11)

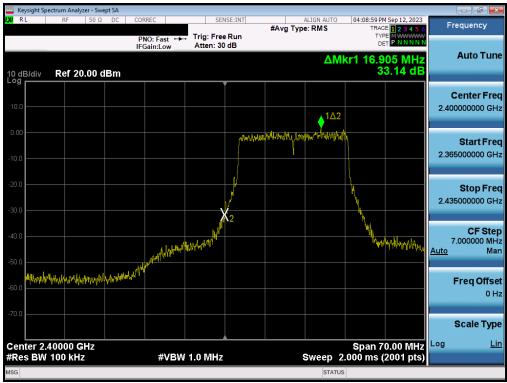
FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 94 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Fage 94 01 120

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V11.0 07/06/2023

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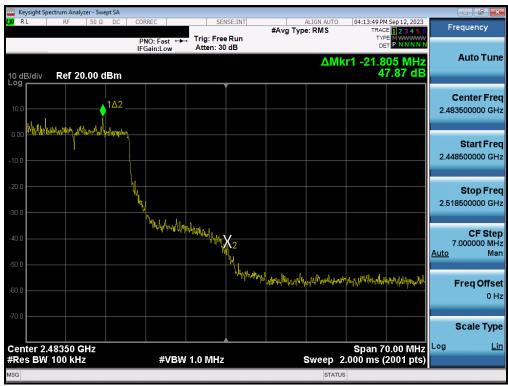
Plot 7-133. Band Edge Plot MIMO ANT2 (802.11be (2.4GHz) - Ch. 1)



Plot 7-134. Band Edge Plot MIMO ANT2 (802.11be (2.4GHz) - Ch. 2)

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 05 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 95 of 126





Plot 7-135. Band Edge Plot MIMO ANT2 (802.11be (2.4GHz) - Ch. 10)



Plot 7-136. Band Edge Plot MIMO ANT2 (802.11be (2.4GHz) - Ch. 11)

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 96 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	rage 90 01 120



7.6 Conducted Spurious Emissions

Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. For the following out of band conducted spurious emissions plots, the EUT was investigated in all available data rates for "b", "g", "n", "ax" modes. The worst-case spurious emissions for the 2.4GHz band were found while transmitting in "b" mode at 1 Mbps and are shown in the plots below.

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Section 11.11.3 of ANSI C63.10-2013.

Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3 ANSI C63.10-2013 – Section 14.3.3

Test Settings

- 1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep time = auto couple
- 7. The 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

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 07 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 97 of 126

SLEMENT V11.0 07/06/2023



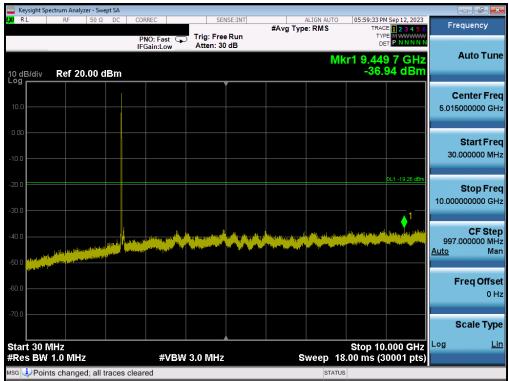
Test Notes

- 1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
- 2. The display line shown in the following plots denotes the limit at 30dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 30dB below the level of the fundamental in a 1MHz bandwidth.
- 3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.
- 4. The conducted spurious emissions were measured to relative limits. Therefore, in accordance with ANSI C63.10-2013 Section 14.3.3, it was unnecessary to show compliance through the summation of test results of the individual outputs.

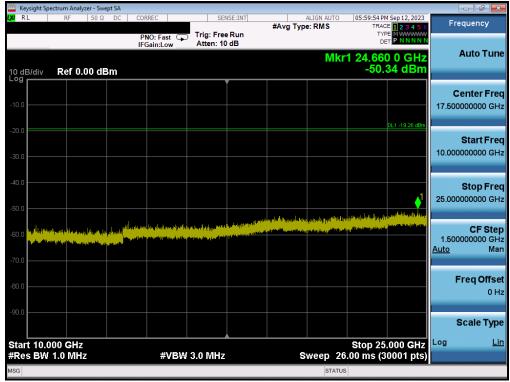
FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 98 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 98 01 126



7.6.1 SISO Antenna-1 Conducted Spurious Emission



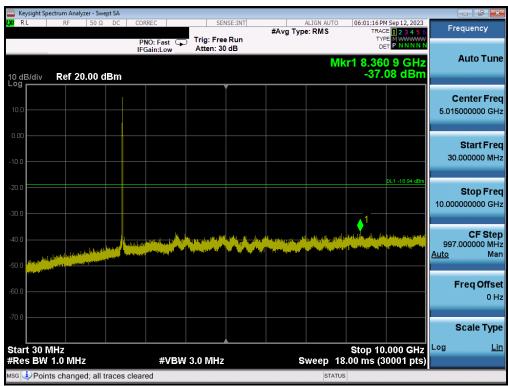
Plot 7-137. Conducted Spurious Plot SISO ANT1 (802.11b - Ch. 1)



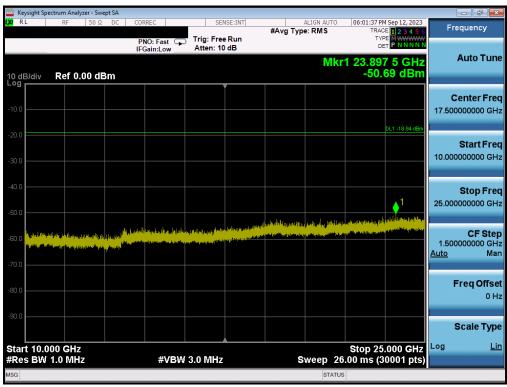
Plot 7-138. Conducted Spurious Plot SISO ANT1 (802.11b - Ch. 1)

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 99 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Fage 99 01 120





Plot 7-139. Conducted Spurious Plot SISO ANT1 (802.11b - Ch. 6)

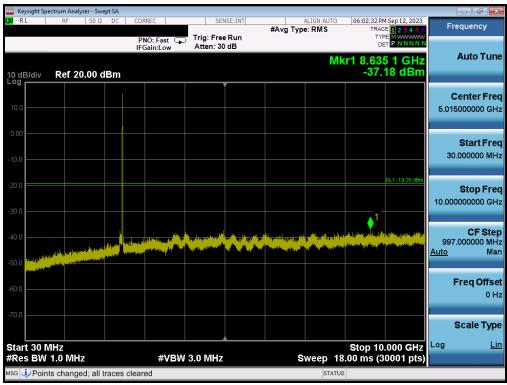


Plot 7-140. Conducted Spurious Plot SISO ANT1 (802.11b - Ch. 6)

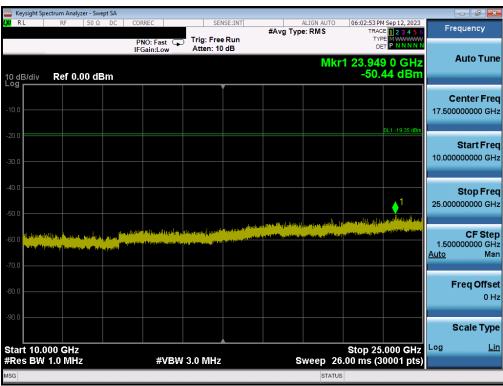
FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 100 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 100 of 126

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Plot 7-141. Conducted Spurious Plot SISO ANT1 (802.11b - Ch. 11)



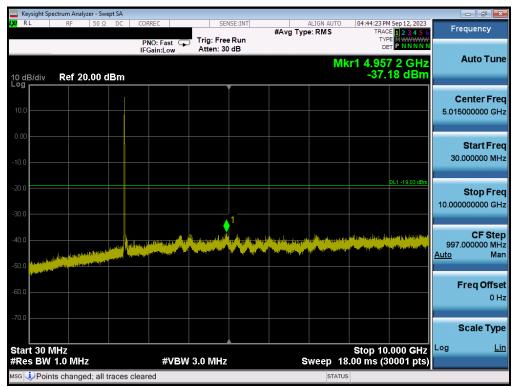
Plot 7-142. Conducted Spurious Plot SISO ANT1 (802.11b - Ch. 11)

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 101 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 101 of 126

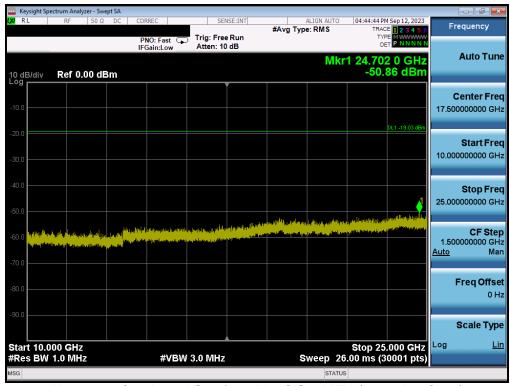
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7.6.2 SISO Antenna-2 Conducted Spurious Emissions



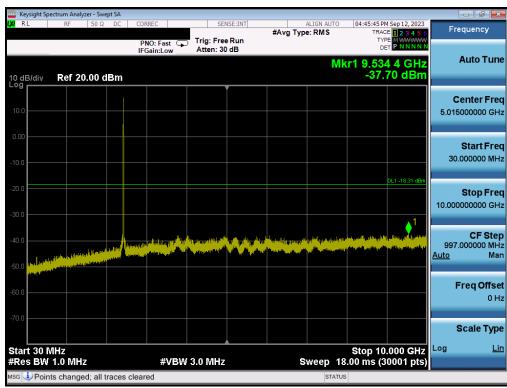
Plot 7-143. Conducted Spurious Plot SISO ANT2 (802.11b - Ch. 1)



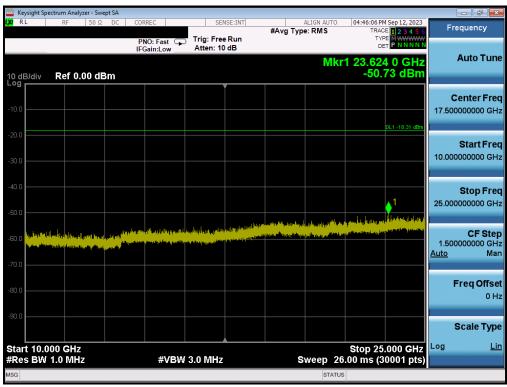
Plot 7-144. Conducted Spurious Plot SISO ANT2 (802.11b - Ch. 1)

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 102 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	raye 102 01 120





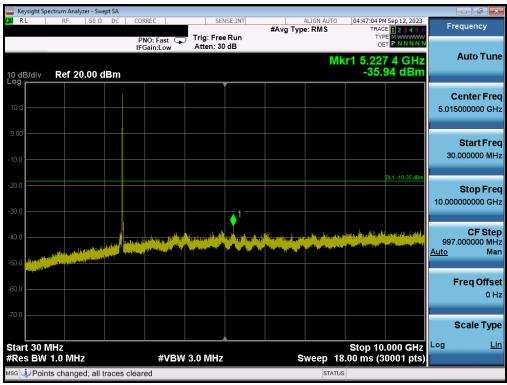
Plot 7-145. Conducted Spurious Plot SISO ANT2 (802.11b - Ch. 6)



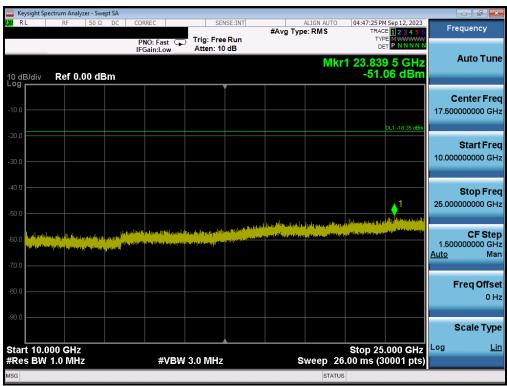
Plot 7-146. Conducted Spurious Plot SISO ANT2 (802.11b - Ch. 6)

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 102 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 103 of 126





Plot 7-147. Conducted Spurious Plot SISO ANT2 (802.11b - Ch. 11)



Plot 7-148. Conducted Spurious Plot SISO ANT2 (802.11b - Ch. 11)

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 104 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 104 01 120

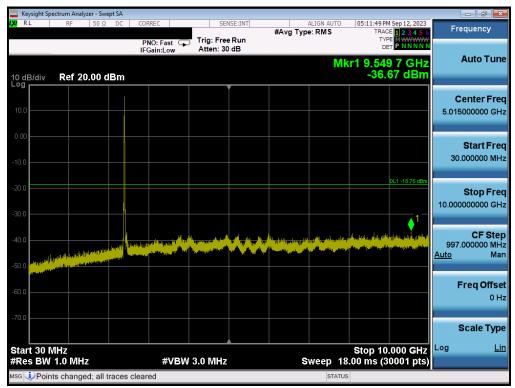
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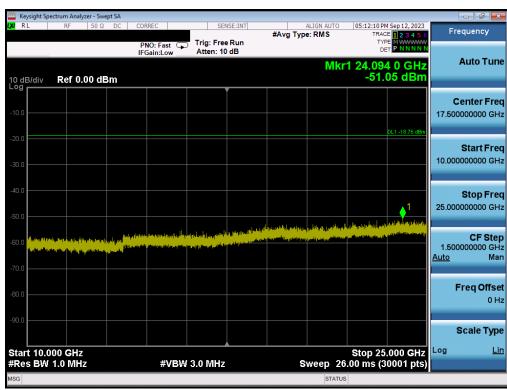
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7.6.3 MIMO Conducted Spurious Emissions



Plot 7-149. Conducted Spurious Plot MIMO ANT1 (802.11b - Ch. 1)



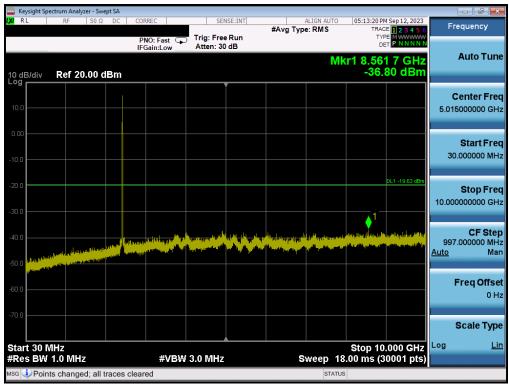
Plot 7-150. Conducted Spurious Plot MIMO ANT1 (802.11b - Ch. 1)

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Page 105 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset		Page 105 01 126

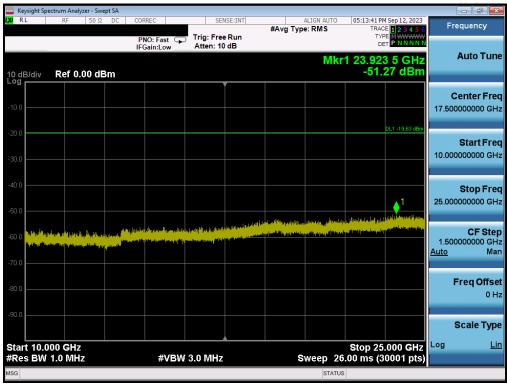
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V11.0 07/06/2023





Plot 7-151. Conducted Spurious Plot MIMO ANT1 (802.11b - Ch. 6)

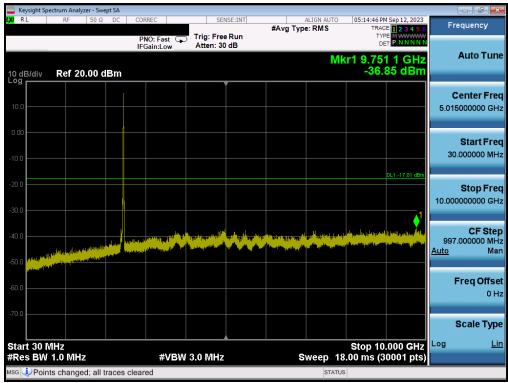


Plot 7-152. Conducted Spurious Plot MIMO ANT1 (802.11b - Ch. 6)

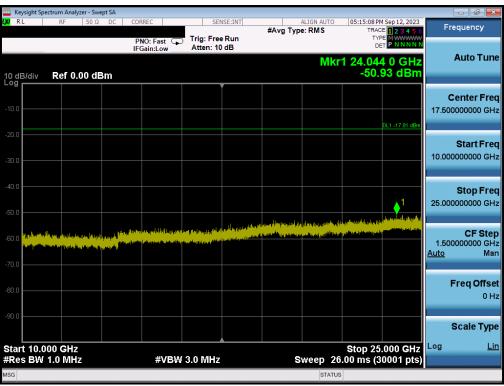
FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 106 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Fage 100 01 120

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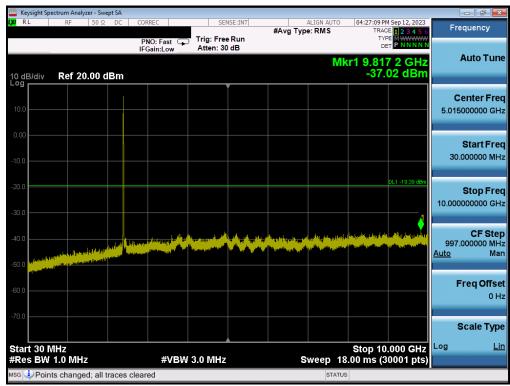
Plot 7-153. Conducted Spurious Plot MIMO ANT1 (802.11b - Ch. 11)



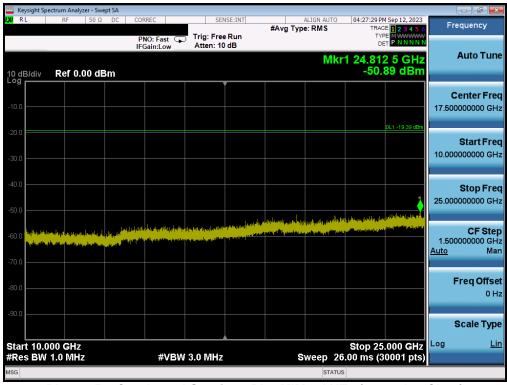
Plot 7-154. Conducted Spurious Plot MIMO ANT1 (802.11b - Ch. 11)

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 107 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 107 of 126





Plot 7-155. Conducted Spurious Plot MIMO ANT2 (802.11b - Ch. 1)

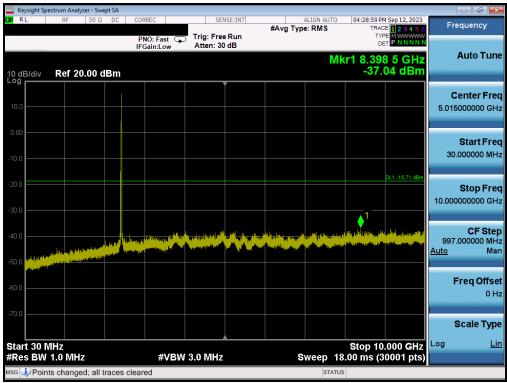


Plot 7-156. Conducted Spurious Plot MIMO ANT2 (802.11b - Ch. 1)

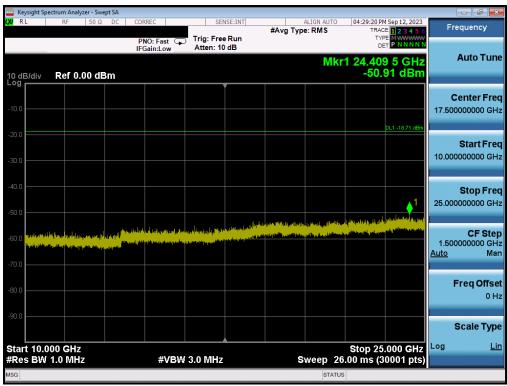
FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 108 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	raye 100 01 120

© 2023 ELEMENT V11.0 07/06/2023





Plot 7-157. Conducted Spurious Plot MIMO ANT2 (802.11b - Ch. 6)

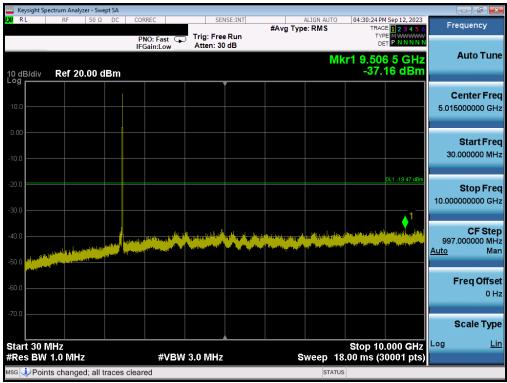


Plot 7-158. Conducted Spurious Plot MIMO ANT2 (802.11b - Ch. 6)

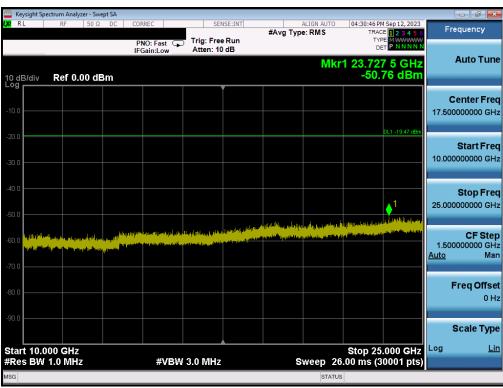
FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 109 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	rage 109 01 120

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Plot 7-159. Conducted Spurious Plot MIMO ANT2 (802.11b - Ch. 11)



Plot 7-160. Conducted Spurious Plot MIMO ANT2 (802.11b - Ch. 11)

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 110 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 110 of 126



7.7 Radiated Emission Measurements

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 FCC §15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown FCC §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 7-11. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 - Section 6.6.4.3

Test Settings – Above 1GHz

Average Field Strength Measurements

- 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)
- Number of measurement points = 1001 (Number of points must be > 2 x span\\RBW)
- 6. Sweep time = auto
- 7. Trace (RMS) averaging was performed over at least 100 traces

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 111 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	rage III 01 120



Peak Field Strength Measurements

- 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

<u>Test Settings – Below 1GHz</u>

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

Test Setup

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

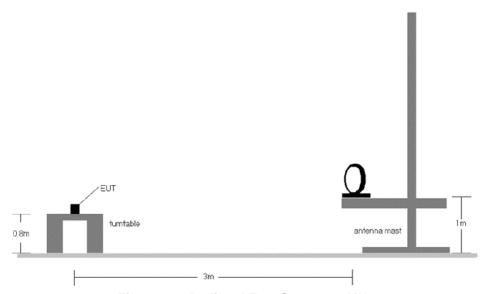


Figure 7-6. Radiated Test Setup < 30MHz

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 112 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 112 of 126

LEMENT V11.0 07/06/2023



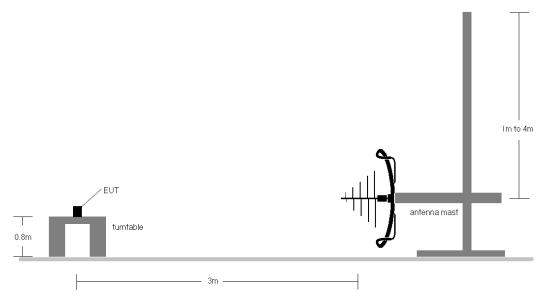


Figure 7-7. Radiated Test Setup < 1GHz

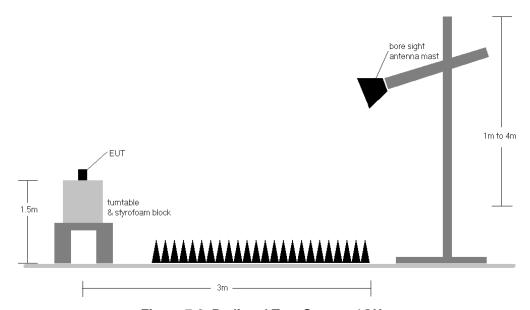


Figure 7-8. Radiated Test Setup > 1GHz

Test Notes

- 1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of ANSI C63.10-2013 Section 11.3 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
- 2. 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.

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 113 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Fage 113 01 126



- 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. 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.
- The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 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.
- 10. No spurious emissions were detected within 20dB of the limit below 30MHz.
- 11. The results recorded using the broadband antenna are 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.
- 12. 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.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level $[dB_{\mu\nu}]$ = Analyzer Level $[dB_m]$ + 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

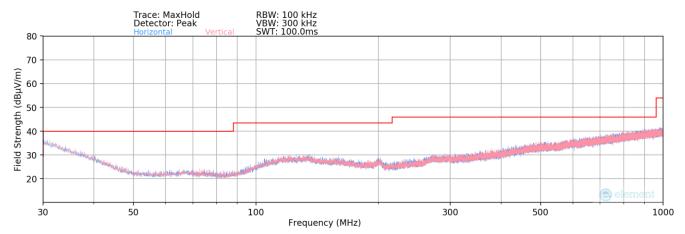
The amplitude offset shown in the radiated restricted band edge plots in Section 7.7 was calculated using the formula:

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

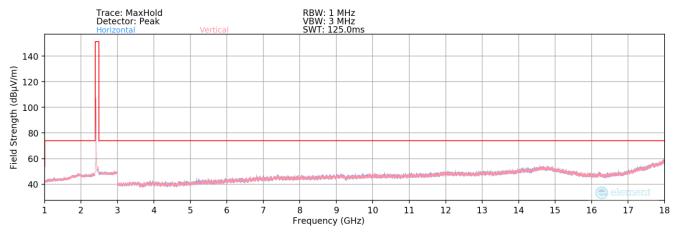
FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 114 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	



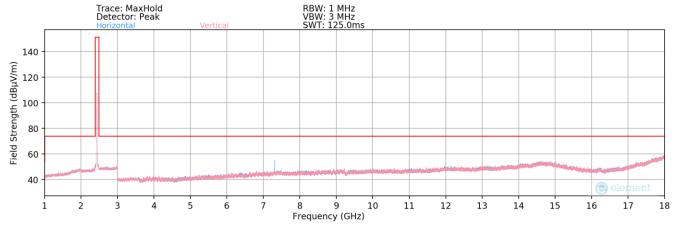
7.7.1 MIMO Radiated Spurious Emission Measurements



Plot 7-161. Radiated Spurious Plot below 1GHz MIMO



Plot 7-162. Radiated Spurious Plot above 1GHz MIMO (802.11b - Ch. 1)



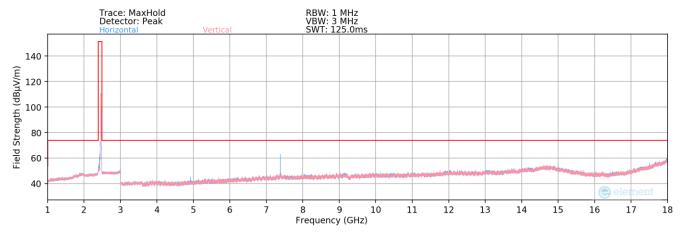
Plot 7-163. Radiated Spurious Plot above 1GHz MIMO (802.11b - Ch. 6)

FCC ID: A3LSMS928U		MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 115 of 126	
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 115 of 126	

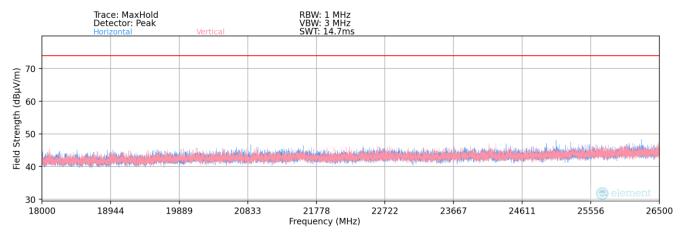
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V11.0 07/06/2023
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Plot 7-164. Radiated Spurious Plot above 1GHz MIMO (802.11b - Ch. 11)



Plot 7-165. Radiated Spurious Plot above 18GHz MIMO

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11b

1 Mbps

3 Meters

2412MHz

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]
4824.00	Avg	Н	161	328	-73.83	7.45	40.62	53.98	-13.36
4824.00	Peak	Н	161	328	-68.39	7.45	46.06	73.98	-27.92
12060.00	Avg	Н	-	-	-83.38	18.70	42.32	53.98	-11.66
12060.00	Peak	Н	-	-	-71.95	18.70	53.75	73.98	-20.23

Table 7-12. Radiated Measurements MIMO

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 116 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 116 of 126

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V11.0 07/06/2023

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Worst Case Mode: 802.11b Worst Case Transfer Rate: 1 Mbps Distance of Measurements: 3 Meters Operating Frequency: 2437MHz Channel: 6

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]
4874.00	Avg	Н	136	329	-74.15	7.18	40.03	53.98	-13.95
4874.00	Peak	Н	136	329	-67.34	7.18	46.84	73.98	-27.14
7311.00	Avg	Н	-	-	-82.03	12.31	37.28	53.98	-16.70
7311.00	Peak	Н	-	-	-70.83	12.31	48.48	73.98	-25.50
12185.00	Avg	Н	-	-	-83.79	19.45	42.66	53.98	-11.32
12185.00	Peak	Н	-	-	-72.87	19.45	53.58	73.98	-20.40

Table 7-13. Radiated Measurements MIMO

Worst Case Mode: 802.11b Worst Case Transfer Rate: 1 Mbps Distance of Measurements: 3 Meters Operating Frequency: 2462MHz Channel: 11

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]
4924.00	Avg	Н	146	332	-73.67	7.51	40.84	53.98	-13.14
4924.00	Peak	Н	146	332	-67.13	7.51	47.38	73.98	-26.60
7386.00	Avg	Н	-	-	-82.00	12.24	37.24	53.98	-16.74
7386.00	Peak	Н	-	-	-69.64	12.24	49.60	73.98	-24.38
12310.00	Avg	Н	-	-	-84.03	19.24	42.21	53.98	-11.77
12310.00	Peak	Н	-	-	-72.25	19.24	53.99	73.98	-19.99

Table 7-14. Radiated Measurements MIMO

FCC ID: A3LSMS928U		MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 117 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 117 of 126



Worst Case Mode: 802.11b Worst Case Transfer Rate: 1 Mbps 3 Meters Distance of Measurements: Operating Frequency: MHz Channel: 11

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]
4924.00	Avg	Н	110	40	-73.50	-1.16	32.34	53.98	-21.64
4924.00	Peak	Н	110	40	-62.01	-1.16	43.83	73.98	-30.15
7386.00	Avg	Н	396	12	-75.42	4.81	36.39	53.98	-17.59
7386.00	Peak	Н	396	12	-64.21	4.81	47.60	73.98	-26.38
12310.00	Avg	Н	-	-	-78.36	9.69	38.33	53.98	-15.65
12310.00	Peak	Н	-	-	-66.67	9.69	50.02	73.98	-23.96

Table 7-15. Radiated Measurements MIMO with WCP

FCC ID: A3LSMS928U		MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Dogg 110 of 100	
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 118 of 126	



7.7.2 MIMO Radiated Restricted Band Edge Measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:
Operating Frequency:

Channel:

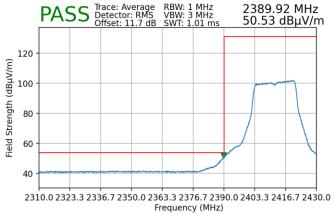
802.11ac

MCS0

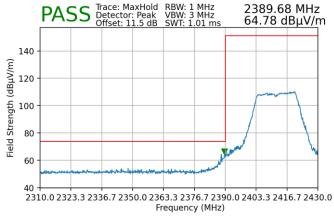
3 Meters

2412MHz

1



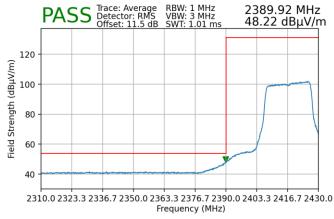
Plot 7-166. Radiated Restricted Lower Band Edge Measurement MIMO (Average)



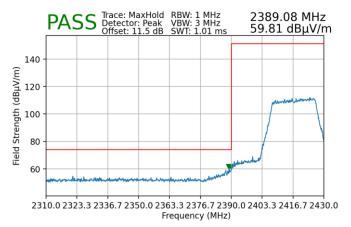
Plot 7-167. Radiated Restricted Lower Band Edge Measurement MIMO (Peak)

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

802.11be
MCS0
3 Meters
2417MHz



Plot 7-168. Radiated Restricted Lower Band Edge Measurement MIMO (Average)



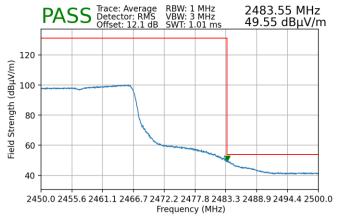
Plot 7-169. Radiated Restricted Lower Band Edge Measurement MIMO (Peak)

FCC ID: A3LSMS928U		MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Do ao 110 of 120	
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 119 of 126	

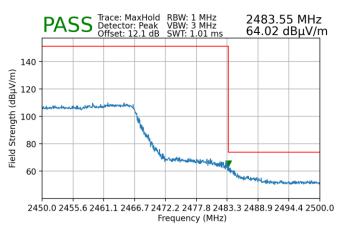


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
3 Meters
2457MHz
10



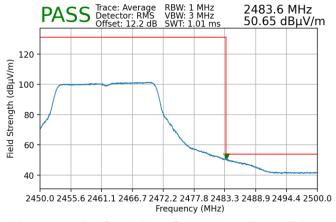
Plot 7-170. Radiated Restricted Upper Band Edge Measurement MIMO (Average)



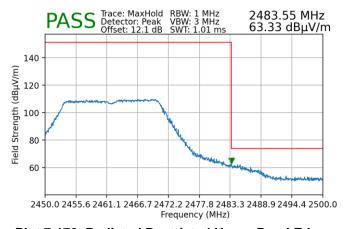
Plot 7-171. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

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

802.11ac
MCS0
3 Meters
2462MHz
11



Plot 7-172. Radiated Restricted Upper Band Edge Measurement MIMO (Average)



Plot 7-173. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

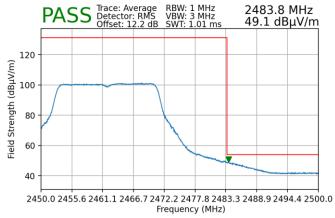
FCC ID: A3LSMS928U		MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Page 120 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	raye 120 01 120

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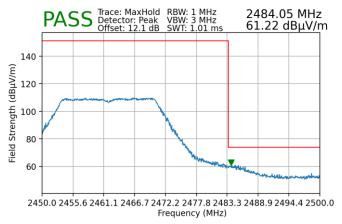


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.1ac
MCS0
3 Meters
2462MHz
11



Plot 7-174. Radiated Restricted Band Edge Measurement MIMO with WCP (Average)



Plot 7-175. Radiated Restricted Band Edge Measurement MIMO with WCP (Peak)

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 121 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 121 of 126



7.8 Line-Conducted Test Data

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 §15.207 and RSS-Gen (8.8).

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

Table 7-16. Conducted Limits

Test Procedures Used

ANSI C63.10-2013, Section 6.2

Test Settings

Quasi-Peak Field Strength Measurements

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

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 122 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 122 of 126

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



Test Setup

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

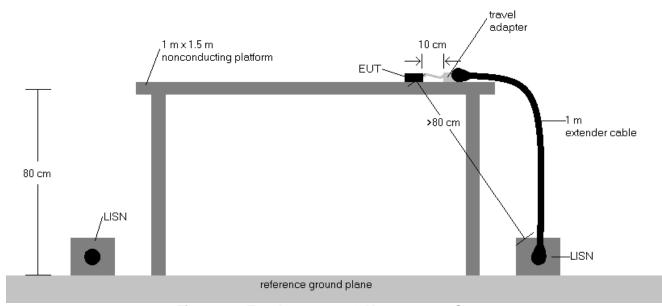


Figure 7-9. Test Instrument & Measurement Setup

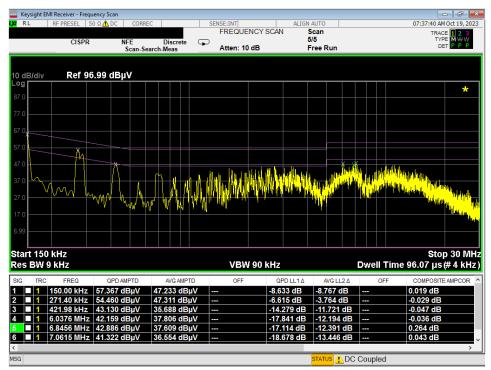
Test Notes

- 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 Part 15.207 and RSS-Gen(8.8).
- 3. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- 4. QP\\AV Level (dB μ V) = QP\\AV Analyzer\\Receiver Level (dB μ V) + Corr. (dB)
- 5. Margin (dB) = QP\\AV Limit (dB μ V) QP\\AV Level (dB μ V)
- 6. Traces shown in plot are made using a peak detector.
- 7. Deviations to the Specifications: None.

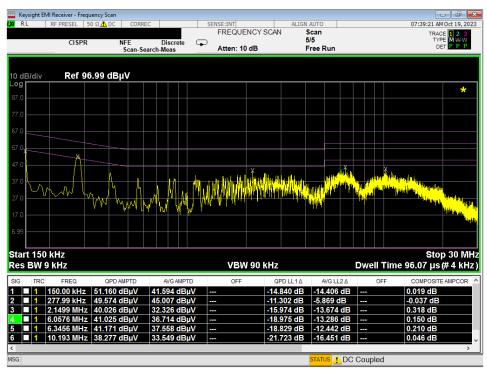
FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 123 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Fage 123 01 126

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Plot 7-176. Line Conducted Plot with 802.11b (L1)

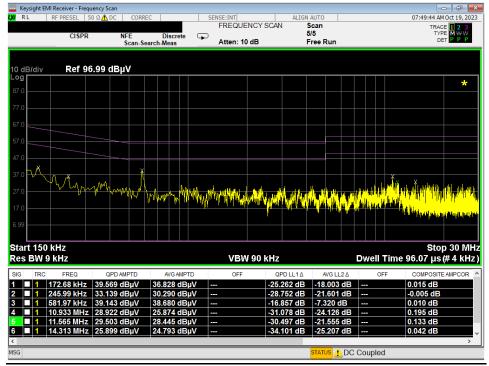


Plot 7-177. Line Conducted Plot with 802.11b (N)

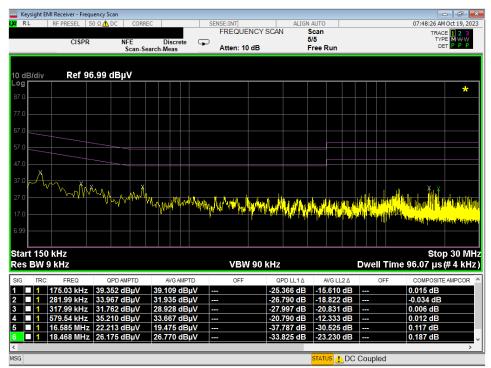
FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 124 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 124 of 126

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Plot 7-178. Line Conducted Plot with 802.11b (L1) with WCP



Plot 7-179. Line Conducted Plot with 802.11b (N) with WCP

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 125 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 125 of 126

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/11.0 07/06/2023



8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMS928U** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules.

FCC ID: A3LSMS928U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 126 of 126
1M2308210092-13.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 126 of 126