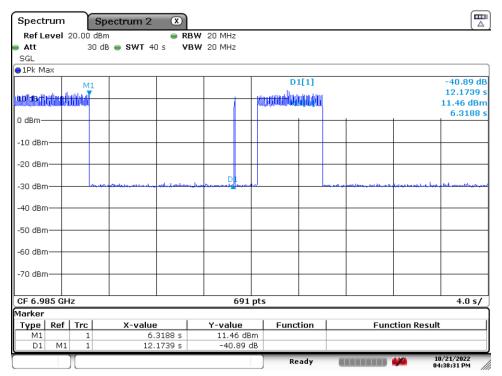


Date: 21.0CT.2022 16:33:21

Plot 7-343. Contention Based Protocol Timing Plot - UNII 8 - 160MHz Ch207 - Mid



Date: 21.0CT.2022 16:38:30

Plot 7-344. Contention Based Protocol Timing Plot - UNII 8 - 160MHz Ch207 - High

FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)			
Test Report S/N:	Test Dates:	EUT Type:	Page 206 of 238		
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	11/8/2022 Portable Handset			
© 2023 ELEMENT			V 9.0 02/01/2019		

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions about this or have an inquiry about obtaining additional rights to this report or assembly of contents thereof, please contact



7.7 Radiated Spurious Emission Measurements – Above 1GHz §15.205, §15.209, §15.407(b)(6)

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 -27dBm/MHz (68.2dBuV/m at a 3m distance). Emissions found in a restricted band are subject to the limits of 15.209 as shown in the table below.

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

Table 7-11. 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
- Detector = power average (RMS)
- 5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
- 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

FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)			
Test Report S/N:	Test Dates:	EUT Type:	Dogo 207 of 229		
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 207 of 238		



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.

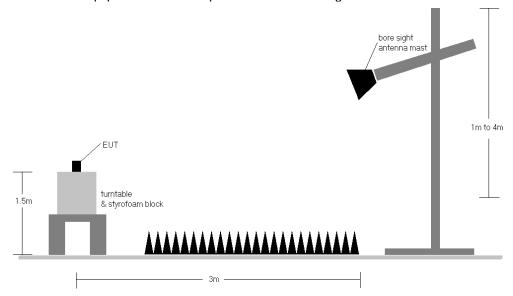


Figure 7-6. Test Instrument & Measurement Setup

FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)			
Test Report S/N:	Test Dates:	EUT Type:	Dogo 200 of 220		
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 208 of 238		

© 2023 ELEMENT

V 9.0 02/01/2019



Test Notes

- 1. All spurious emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-11. 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.
- 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 [68.2dB_μV/m]. If a peak measurement passes the average limit it was determined no further investigation is necessary.
- 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.
- 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]
- $\hspace{1cm} \circ \hspace{1cm} \text{Margin } {}_{[dB]} = \text{Field Strength Level } {}_{[dB\mu V/m]} \text{Limit } {}_{[dB\mu V/m]} \\$

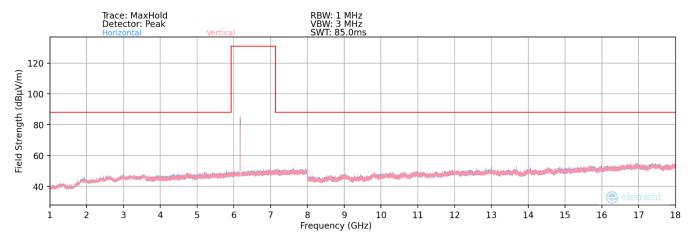
Radiated Band Edge Measurement Offset

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

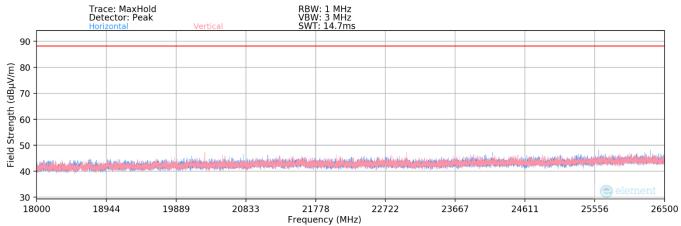
FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)			
Test Report S/N: Test Dates:		EUT Type:	Page 209 of 238		
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 209 01 238		



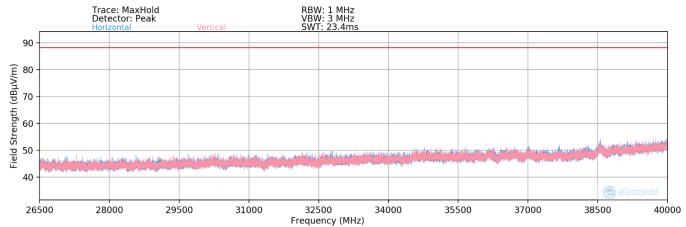
MIMO Radiated Spurious Emission Measurements



Plot 7-345. Radiated Spurious Plot above 1GHz MIMO (802.11ax – UNII Band 5 – 20MHz – Ch.45)



Plot 7-346. Radiated Spurious Plot above 18GHz - 26.5GHz - CH 45 - MIMO (802.11ax)



Plot 7-347. Radiated Spurious Plot 26.5GHz - 40GHz - CH 45 - MIMO (802.11ax)

FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)			
Test Report S/N:	Test Dates:	EUT Type:	Dogo 210 of 229		
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 210 of 238		

© 2023 ELEMENT Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without



MIMO Radiated Spurious Emission Measurements §15.407(b) §15.205 & §15.209

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

MCS0

1 & 3 Meters

5935MHz

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	٧		-	-81.76	14.16	0.00	39.40	53.98	-14.58
*	11870.00	Peak	V	-	-	-71.01	14.16	0.00	50.15	73.98	-23.83
*	17865.00	Average	V	-	-	-82.50	18.26	0.00	42.76	53.98	-11.22
*	17865.00	Peak	V	-	-	-71.98	18.26	0.00	53.28	73.98	-20.70
*	23820.00	Average	V	-	-	-64.99	3.99	-9.54	36.46	53.98	-17.52
*	23820.00	Peak	V	=	-	-58.71	3.99	-9.54	42.74	73.98	-31.24
	29775.00	Peak	V	-	-	-55.01	6.33	-9.54	48.78	68.20	-19.42

Table 7-12. Radiated Measurements MIMO (UNII Band 5 – Low Channel – 20MHz)

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

MCS0

1 & 3 Meters

6175MHz

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	V	-	-	-81.57	13.85	0.00	39.28	53.98	-14.70
*	12350.00	Peak	V	-	-	-71.01	13.85	0.00	49.84	73.98	-24.14
*	18525.00	Average	V	-	-	-69.20	1.68	-9.54	29.94	53.98	-24.04
*	18525.00	Peak	V	-	-	-57.67	1.68	-9.54	41.47	73.98	-32.51
	24700.00	Peak	V	-	-	-57.85	4.25	-9.54	43.86	68.20	-24.34
	30875.00	Peak	V	-	-	-59.19	6.73	-9.54	45.00	68.20	-23.20

Table 7-13. Radiated Measurements MIMO (UNII Band 5 – Mid Channel – 20MHz)

FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)			
Test Report S/N:	Test Dates:	EUT Type:	Page 211 of 238		
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	raye 211 01 238		

© 2023 ELEMENT

V 9.0 02/01/2019

Upless otherwise specified no part of this report may be reproduced or utilized in any part form or by any means, electronic or mechanical, including photocopying and microfilm, without



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	V	-	-	-82.51	14.78	0.00	39.27	68.20	-28.93
*	19245.00	Average	V	-	-	-71.11	2.30	-9.54	28.65	53.98	-25.33
*	19245.00	Peak	V	-	-	-59.05	2.30	-9.54	40.71	73.98	-33.27
	25660.00	Peak	V	-	-	-58.16	4.61	-9.54	43.91	68.20	-24.29
	32075.00	Peak	V	-	-	-59.36	7.18	-9.54	45.28	68.20	-22.92

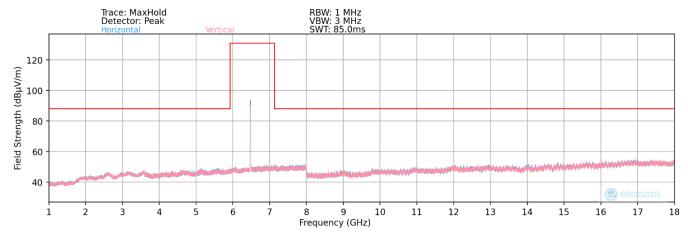
Table 7-14. Radiated Measurements MIMO (UNII Band 5 – High Channel – 20MHz)

	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	V	242	229	-74.94	9.80	0.00	41.86	53.98	-12.12
*	12350.00	Peak	>	242	229	-62.12	9.80	0.00	54.68	73.98	-19.30

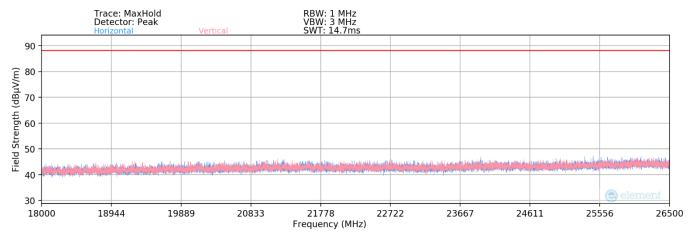
Table 7-15. Radiated Measurements MIMO (UNII Band 5 - Mid Channel - 20MHz) with WCP

FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)			
Test Report S/N:	Test Dates:	EUT Type:	Page 212 of 238		
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 212 01 238		

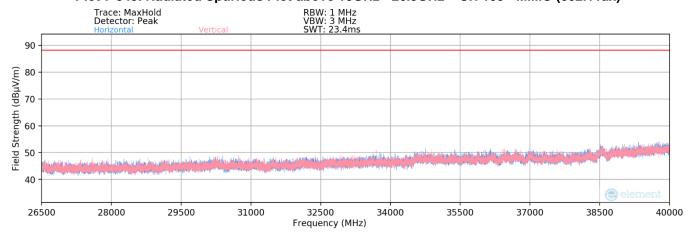




Plot 7-348. Radiated Spurious Plot above 1GHz MIMO (802.11ax- UNII Band 6 - 20MHz - Ch.105)



Plot 7-349. Radiated Spurious Plot above 18GHz - 26.5GHz - CH 105 - MIMO (802.11ax)



Plot 7-350. Radiated Spurious Plot 26.5GHz - 40GHz - CH 105 - MIMO (802.11ax)

FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 212 of 229
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 213 of 238

© 2023 ELEMENT Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without



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: 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	V	-	-	-71.66	14.51	0.00	49.85	68.20	-18.35
*	19305.00	Average	٧	-	-	-65.33	2.61	-9.54	34.74	53.98	-19.24
*	19305.00	Peak	٧	-	-	-70.98	2.61	-9.54	29.09	73.98	-44.89
	25740.00	Peak	V	-	-	-57.64	4.71	-9.54	44.53	68.20	-23.67
	32175.00	Peak	V	-	-	-58.34	7.21	-9.54	46.33	68.20	-21.87

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

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	V	-	-	-70.89	14.59	0.00	50.70	68.20	-17.50
*	19425.00	Average	٧	-	-	-64.33	2.67	-9.54	35.80	53.98	-18.18
*	19425.00	Peak	٧	-	-	-54.69	2.67	-9.54	45.44	73.98	-28.54
	25900.00	Peak	V	-	-	-54.88	4.77	-9.54	47.35	68.20	-20.85
Ī	32375.00	Peak	٧	-	-	-55.61	6.96	-9.54	48.81	68.20	-19.39

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

FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)				
Test Report S/N:	Test Dates:	EUT Type:	Dogo 244 of 220			
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 214 of 238			

© 2023 ELEMENT

V 9.0 02/01/2019

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without



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	V	-	-	-70.56	14.61	0.00	51.05	68.20	-17.15
*	19545.00	Average	٧	-	-	-64.39	2.63	-9.54	35.70	53.98	-18.28
*	19545.00	Peak	٧	-	-	-53.88	2.63	-9.54	46.21	73.98	-27.77
	26060.00	Peak	٧	-	-	-54.69	4.83	-9.54	47.60	68.20	-20.60
	32575.00	Peak	٧	-	-	-55.54	6.80	-9.54	48.72	68.20	-19.48

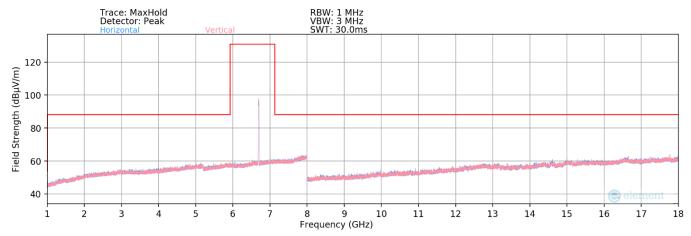
Table 7-18. Radiated Measurements MIMO (UNII Band 6 – High Channel – 20MHz)

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	٧	163	43	-58.62	10.31	0.00	58.69	68.20	-9.51

Table 7-19. Radiated Measurements MIMO (UNII Band 6 - Mid Channel - 20MHz) with WCP

FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 215 of 229
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 215 of 238

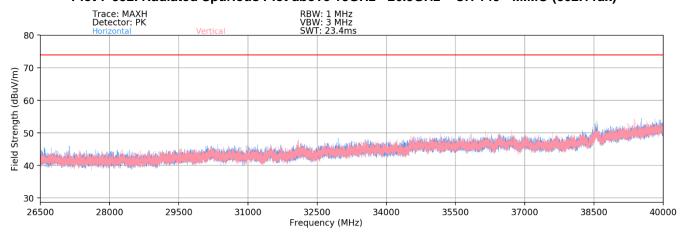




Plot 7-351. Radiated Spurious Plot above 1GHz MIMO (802.11ax-UNII Band 7 - 20MHz - Ch.149)



Plot 7-352. Radiated Spurious Plot above 18GHz - 26.5GHz - CH 149 - MIMO (802.11ax)



Plot 7-353. Radiated Spurious Plot 26.5GHz - 40GHz - CH 149 - MIMO (802.11ax)

FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 216 of 229
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 216 of 238

© 2023 ELEMENT

V 9.0 02/01/2019

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or machanical, including photocopying and microfilm, without



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: 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	V	-	-	-70.58	14.41	0.00	50.83	68.20	-17.37
*	19605.00	Average	٧	-	-	-64.38	2.75	-9.54	35.83	53.98	-18.15
*	19605.00	Peak	٧	-	-	-53.91	2.75	-9.54	46.30	73.98	-27.68
	26140.00	Peak	V	-	-	-64.36	5.14	-9.54	38.24	68.20	-29.96
	32675.00	Peak	٧	-	-	-55.37	7.15	-9.54	49.24	68.20	-18.96

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

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

MCS0

1 & 3 Meters

6695MHz

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	V	-	-	-71.22	14.18	0.00	49.96	53.98	-4.02
*	13390.00	Peak	٧		-	-67.11	14.18	0.00	54.07	73.98	-19.91
*	20085.00	Average	V	-	-	-65.29	3.06	-9.54	35.23	53.98	-18.75
*	20085.00	Peak	V	-	-	-56.21	3.06	-9.54	44.31	73.98	-29.67
Ī	26780.00	Peak	V	-	-	-57.33	5.33	-9.54	45.46	68.20	-22.74
	33475.00	Peak	V	-	-	-56.51	7.51	-9.54	48.46	68.20	-19.74

Table 7-21. Radiated Measurements MIMO (UNII Band 7 - Mid Channel - 20MHz)

FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)				
Test Report S/N:	Test Dates:	EUT Type:	Page 217 of 238			
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	raye 217 01 238			

V 9.0 02/01/2019
Need of the proof of this count may be considered as utilized in any part form or by any manner electronic or machinical including abstraction and migrafiles without



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	V	-	-	-72.01	14.18	0.00	49.17	68.20	-19.03
*	20625.00	Average	V	-	-	-67.21	3.32	-9.54	33.57	53.98	-20.41
*	20625.00	Peak	V	-	-	-56.32	3.32	-9.54	44.46	73.98	-29.52
	27500.00	Peak	V	-	-	-56.98	4.97	-9.54	45.45	68.20	-22.75
	34375.00	Peak	V	-	-	-56.47	7.82	-9.54	48.81	68.20	-19.39

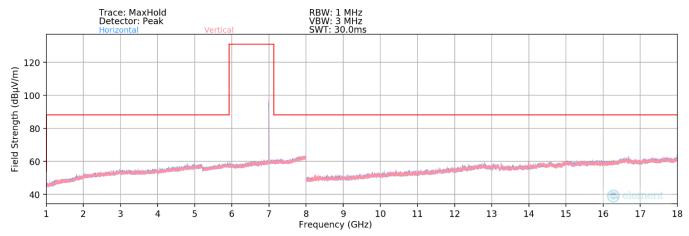
Table 7-22. Radiated Measurements MIMO (UNII Band 7 – High Channel – 20MHz)

	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	٧	282	232	-70.26	10.71	0.00	47.45	53.98	-6.53
*	13390.00	Peak	٧	282	232	-56.74	10.71	0.00	60.97	73.98	-13.01

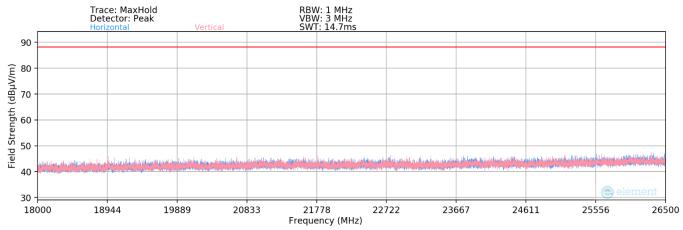
Table 7-23. Radiated Measurements MIMO (UNII Band 7 - Mid Channel - 20MHz) with WCP

FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 240 of 220
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 218 of 238

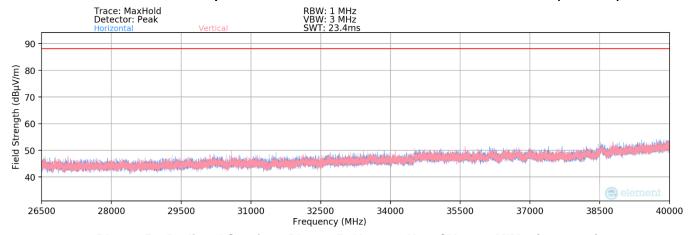




Plot 7-354. Radiated Spurious Plot above 1GHz MIMO (802.11ax-UNII Band 8 - 20MHz - Ch.209)



Plot 7-355. Radiated Spurious Plot above 18GHz - 26.5GHz - CH 209 - MIMO (802.11ax)



Plot 7-356. Radiated Spurious Plot 26.5GHz - 40GHz - CH 209 - MIMO (802.11ax)

FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 210 of 229
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 219 of 238

© 2023 ELEMENT V 9.0 02/01/2019



MIMO Radiated Spurious Emission Measurements §15.407(b) §15.205 & §15.209

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

MCS0

1 & 3 Meters

6895MHz

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	V	-	-	-71.00	14.62	0.00	50.62	68.20	-17.58
*	20685.00	Average	٧	-	-	-66.54	3.24	-9.54	34.16	53.98	-19.82
*	20685.00	Peak	V	-	-	-55.69	3.24	-9.54	45.01	73.98	-28.97
	27580.00	Peak	V	-	-	-56.89	5.11	-9.54	45.68	68.20	-22.52
	34475.00	Peak	V	-	-	-57.01	7.75	-9.54	48.20	68.20	-20.00

Table 7-24. Radiated Measurements MIMO (UNII Band 8 – Low Channel – 20MHz)

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

MCS0

1 & 3 Meters

6995MHz

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	V	-	-	-70.55	14.50	0.00	50.95	68.20	-17.25
*	20985.00	Average	V	-	-	-66.39	3.52	-9.54	34.59	53.98	-19.39
*	20985.00	Peak	V	-	-	-55.21	3.52	-9.54	45.77	73.98	-28.21
	27980.00	Peak	V	-	-	-56.32	4.92	-9.54	46.06	68.20	-22.14
	34975.00	Peak	V	-	-	-57.14	8.03	-9.54	48.35	68.20	-19.85

Table 7-25. Radiated Measurements MIMO (UNII Band 8 - Mid Channel - 20MHz)

FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 220 of 220
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 220 of 238

© 2023 ELEMENT

V 9.0 02/01/2019

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or machanical, including photocopying and microfilm, without



Channel:

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

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	V	-	-	-69.66	15.54	0.00	52.88	68.20	-15.32
*	21345.00	Average	٧	-	-	-65.66	3.97	-9.54	35.77	53.98	-18.21
*	21345.00	Peak	٧	-	-	-57.01	3.97	-9.54	44.42	73.98	-29.56
	28460.00	Peak	V	-	-	-58.01	5.18	-9.54	44.63	68.20	-23.57
	35575.00	Peak	٧	-	-	-57.66	7.82	-9.54	47.62	68.20	-20.58

Table 7-26. Radiated Measurements MIMO (UNII Band 8 – High Channel – 20MHz)

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	V	257	232	-54.38	11.70	0.00	64.32	68.20	-3.88

Table 7-27. Radiated Measurements MIMO (UNII Band 8 - Mid Channel - 20MHz) with WCP

FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)				
Test Report S/N:	Test Dates:	EUT Type:	Page 221 of 238			
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 221 01 238			



7.7.2 MIMO Radiated Band Edge Measurements (20MHz BW) §15.407(b)(6) §15.205 §15.209

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

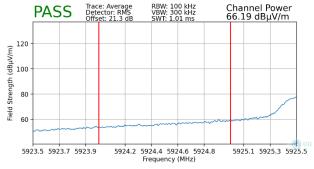
802.11ax

MCS0

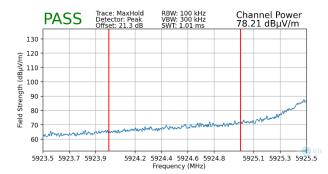
3 Meters

5935MHz

2



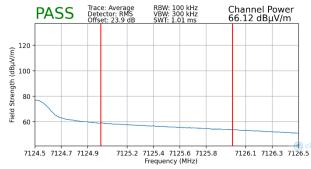
Plot 7-357. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)



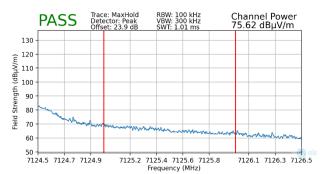
Plot 7-358. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)

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

802.11a
6Mbps
3 Meters
7115MHz
233



Plot 7-359. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)



Plot 7-360. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)

FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 222 of 238
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 222 01 238

© 2023 ELEMENT

V 9.0 02/01/2019

Unless otherwise appealing to part of this report may be reproduced or utilized in any part form or by any masses electronic or machanical including photocopying and misrefilm, without

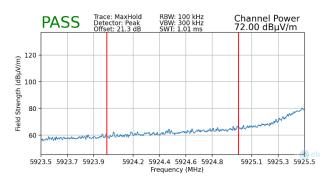


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
3 Meters
5935MHz
2

	PAS	SS	Trace: Average Detector: RMS Offset: 21.3 dB		ge 1S dB	RBW: 100 kHz VBW: 300 kHz SWT: 1.01 ms			nnel P 4 dBµ	
Held Strength (dBµV/m) 80 80 40 59		23.7 59	23.9		24.2 592	24.4 592 equency	24.6 592			el€ 5
					110	equency	(11112)			

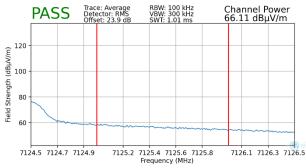
Plot 7-361. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5) with WCP



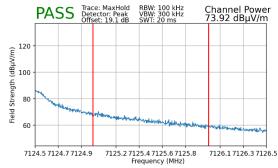
Plot 7-362. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5) with WCP

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

802.11a
6Mbps
3 Meters
7115MHz
233



Plot 7-363. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8) with WCP



Plot 7-364. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8) with WCP

FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 222 of 229
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 223 of 238

2023 ELEMENT V 9.0 02/01/2019



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

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

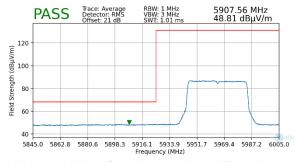
802.11ax

MCS0

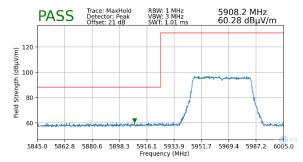
3 Meters

5965MHz

3



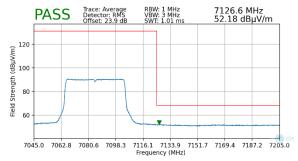
Plot 7-365. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)



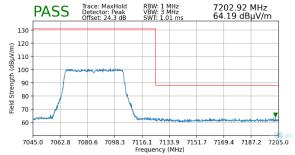
Plot 7-366. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)

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

802.11ax
MCS0
3 Meters
7085MHz
227



Plot 7-367. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)



Plot 7-368. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)

FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 224 of 229
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 224 of 238

© 2023 ELEMENT

V 9.0 02/01/2019

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or machanical, including photocopying and microfilm, without



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

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

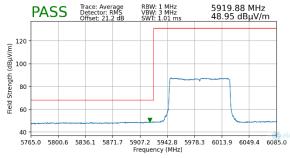
802.11ax

MCS0

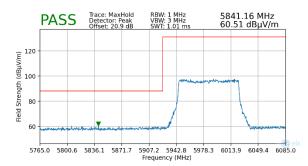
3 Meters

5985MHz

7



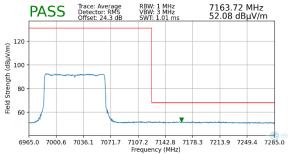
Plot 7-369. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)



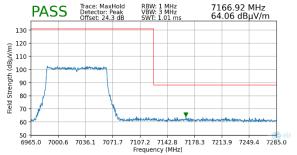
Plot 7-370. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)

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

802.11ax
MCS0
3 Meters
7025MHz
215



Plot 7-371. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)



Plot 7-372. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)

FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 225 of 229
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 225 of 238

© 2023 ELEMENT

V 9.0 02/01/2019

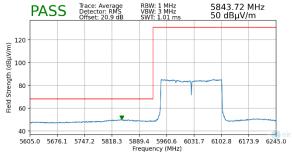
Upless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without



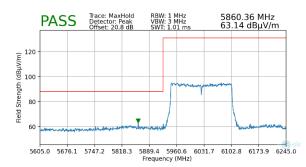
7.7.5 MIMO Radiated Band Edge Measurements (160MHz BW) §15.407(b.5) §15.205 §15.209

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

802.11ax
MCS0
3 Meters
6025MHz
15



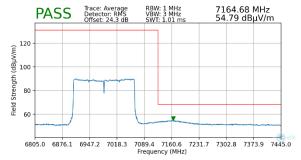
Plot 7-373. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)



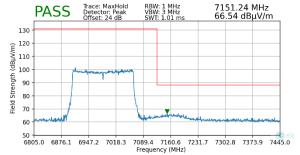
Plot 7-374. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)

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

802.11ax
MCS0
3 Meters
6985MHz
207



Plot 7-375. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)



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

FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 226 of 229
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 226 of 238

© 2023 ELEMENT

V 9.0 02/01/2019

Unless otherwise appealing to part of this report may be reproduced or utilized in any part form or by any masses electronic or machanical including photocopying and misrefilm, without



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 < 960MHz must not exceed the limit shown in Table 7-28 per Section 15.209

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

Table 7-28. 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
- 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: A3LSMS918JPN		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Daga 227 of 220
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 227 of 238

2023 ELEMENT V 9.0 02/01/2019



Test Setup

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

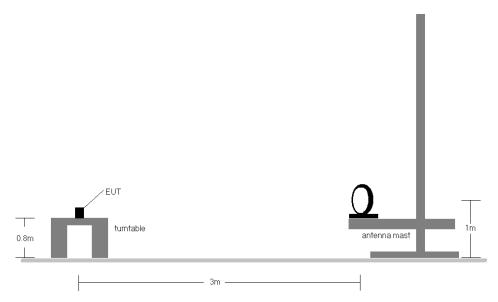


Figure 7-7. Radiated Test Setup < 30MHz

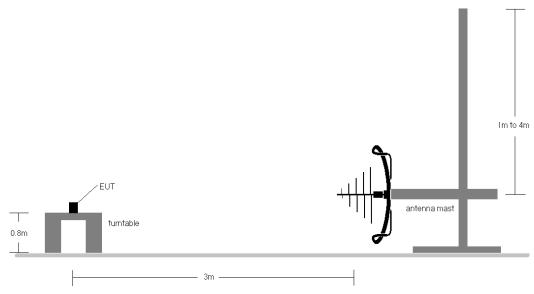


Figure 7-8. Radiated Test Setup < 1GHz

FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)		
Test Report S/N:	Test Dates:	EUT Type:	Page 228 of 238	
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 220 01 230	

© 2023 ELEMENT



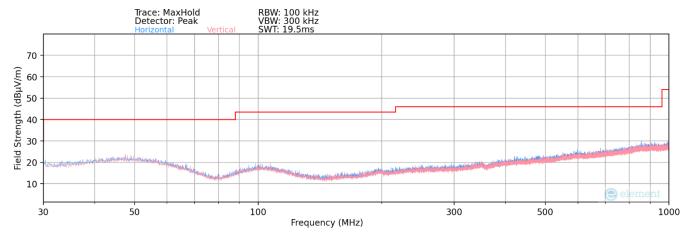
Test Notes

- 1. All emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-28.
- 2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
- 3. This unit was tested with its standard battery.
- 4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
- 5. Emissions were measured at a 3 meter test distance.
- 6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
- 7. No spurious emissions were detected within 20dB of the limit below 30MHz.
- 8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
- The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.

FCC: A3LSMS918JPN		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 220 of 229
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 229 of 238



Radiated Spurious Emissions Measurements (Below 1GHz) §15.209



Plot 7-377. Radiated Spurious Plot below 1GHz

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]
834.00	Quasi-Peak	٧	-	-	-91.11	-4.48	11.41	46.02	-34.61

Plot 7-378. Radiated Spurious Data below 1GHz

FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)		
Test Report S/N:	Test Dates:	EUT Type:	Dogo 220 of 229	
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 230 of 238	

© 2023 ELEMENT



7.9 Line-Conducted Test Data §15.407(b)(9)

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

Table 7-29. 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)
- Detector = RMS
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 221 of 229
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 231 of 238

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



Test Setup

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

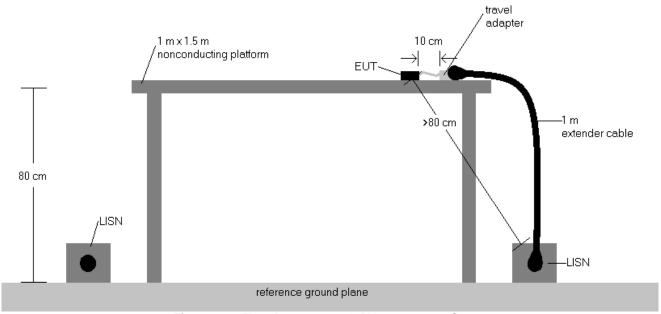


Figure 7-9. Test Instrument & Measurement Setup

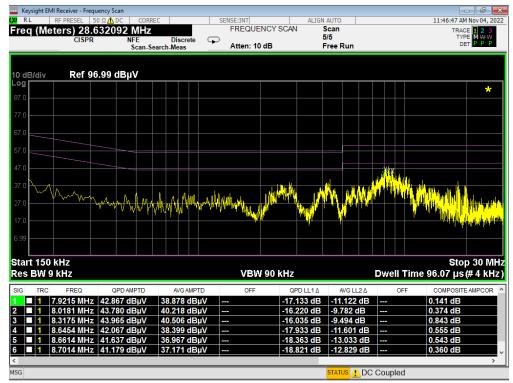
Test Notes

- 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. 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.

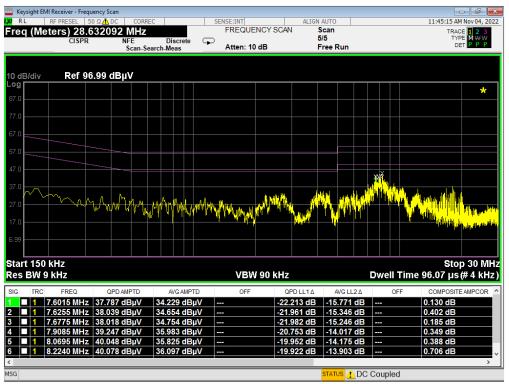
FCC: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)	
Test Report S/N:	Test Dates:	EUT Type:	Page 232 of 238
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Fage 232 01 238

© 2023 ELEMENT V 9.0 02/01/2019





Plot 7-379. Line Conducted Plot with 802.11a UNII Band 5 (L1)



Plot 7-380. Line Conducted Plot with 802.11a UNII Band 5 (N)

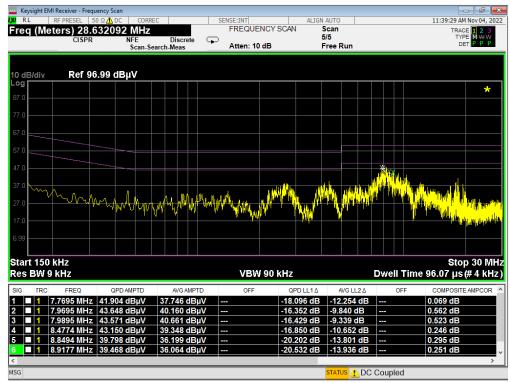
FCC: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 233 of 238
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	raye 233 UI 238

© 2023 ELEMENT

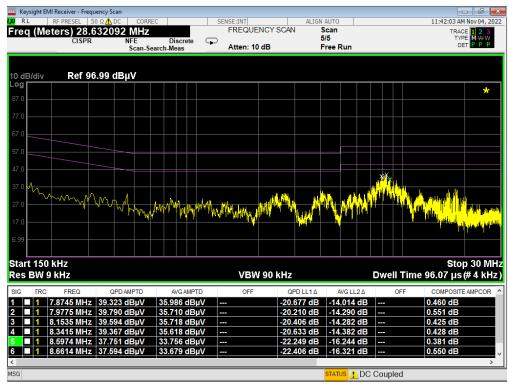
V 9.0 02/01/2019

Upless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without





Plot 7-381. Line Conducted Plot with 802.11a UNII Band 6 (L1)



Plot 7-382. Line Conducted Plot with 802.11a UNII Band 6 (N)

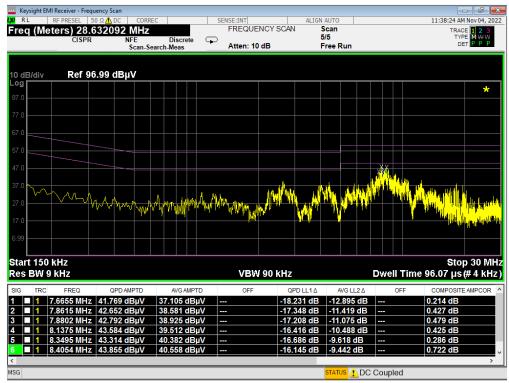
FCC: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 224 of 229
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 234 of 238

© 2023 ELEMENT

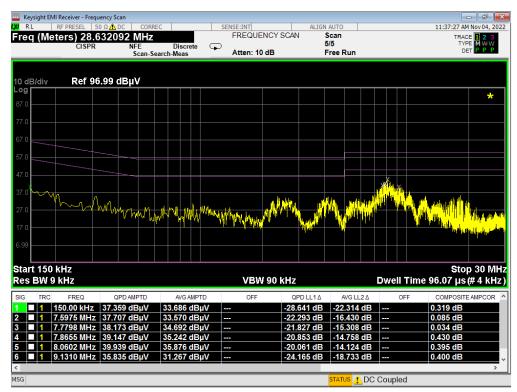
V 9.0 02/01/2019

Unless otherwise specified no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without





Plot 7-383. Line Conducted Plot with 802.11a UNII Band 7 (L1)



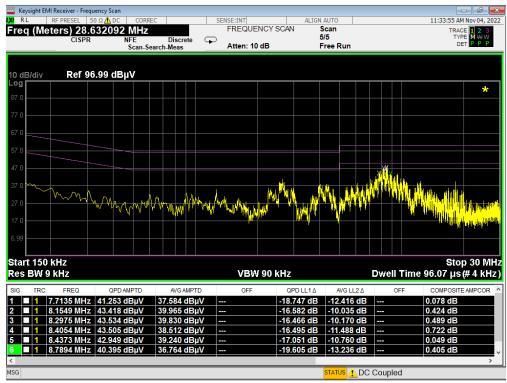
Plot 7-384. Line Conducted Plot with 802.11a UNII Band 7 (N)

FCC: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 225 of 229
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 235 of 238

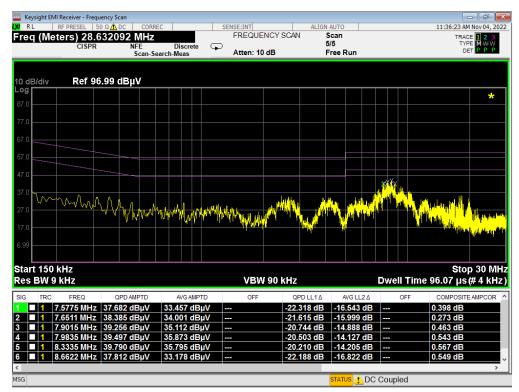
© 2023 ELEMENT

V 9.0 02/01/2019
Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without





Plot 7-385. Line Conducted Plot with 802.11a UNII Band 8 (L1)



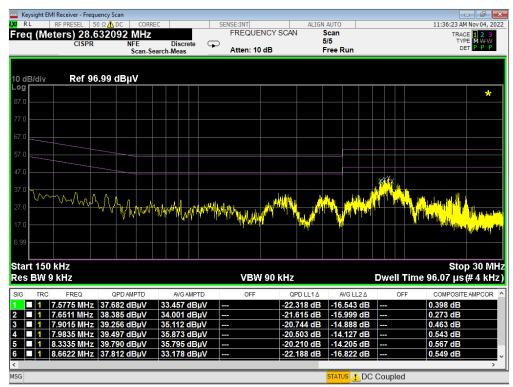
Plot 7-386. Line Conducted Plot with 802.11a UNII Band 8 (N)

FCC: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 226 of 229
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 236 of 238

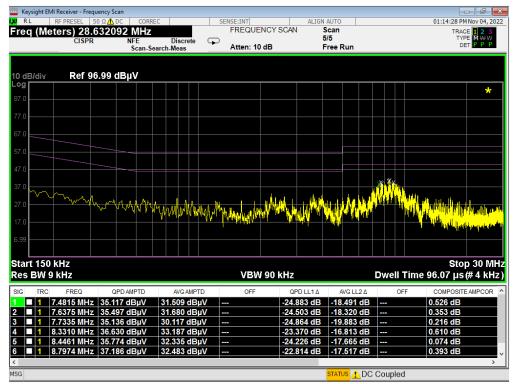
© 2023 ELEMENT

V 9.0 02/01/2019
Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without





Plot 7-387. Line Conducted Plot with 802.11a UNII Band 5 (L1) with WCP



Plot 7-388. Line Conducted Plot with 802.11a UNII Band 5 (N) with WCP

FCC: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 237 of 238
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 237 01 230

© 2023 ELEMENT

V 9.0 02/01/2019

V 9.0 02/01/2019

V 9.0 02/01/2019

V 9.0 02/01/2019



CONCLUSION

The data collected relate only the item(s) tested and show that the Samsung Portable Handset FCC: A3LSMS918JPN is in compliance with FCC Part Subpart E (15.407) of the FCC rules for operation as a client device.

FCC: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 220 of 220
1M2212080137-13-R1.A3L	9/3/2022 - 11/8/2022	Portable Handset	Page 238 of 238