



Plot 7-156. 6dB Bandwidth Plot ANT2 (80MHz BW 802.11n (UNII Band 3) - Ch. 155)



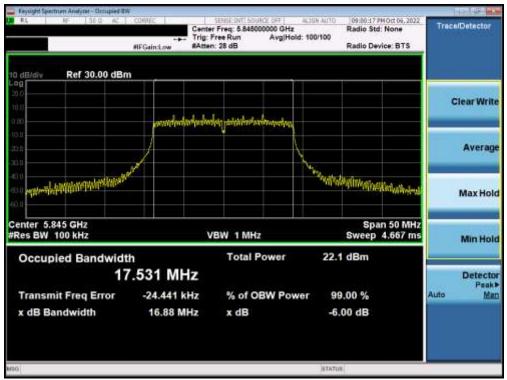
Plot 7-157. 6dB Bandwidth Plot ANT2 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 98 of 255
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	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
Band 3/4	5845	169	а	6	16.88
Band 4	5865	173	а	6	16.87
Dallu 4	5885	177	а	6	17.26
Band 3/4	5845	169	n (20MHz)	6.5/7.2 (MCS0)	17.22
Band 4	5865	173	n (20MHz)	6.5/7.2 (MCS0)	16.94
Dallu 4	5885	177	n (20MHz)	6.5/7.2 (MCS0)	16.59
Band 3/4	5845	169	ax (20MHz)	6.5/7.2 (MCS0)	18.97
Band 4	5865	173	ax (20MHz)	6.5/7.2 (MCS0)	18.97
Dallu 4	5885	177	ax (20MHz)	6.5/7.2 (MCS0)	18.48
Band 3/4	5835	167	n (40MHz)	13.5/15 (MCS0)	35.70
Band 4	5875	175	n (40MHz)	13.5/15 (MCS0)	35.76
Band 3/4	5835	167	ax (40MHz)	13.5/15 (MCS0)	37.87
Band 4	5875	175	ax (40MHz)	13.5/15 (MCS0)	37.88
	5855	171	ac (80MHz)	29.3/32.5 (MCS0)	74.57
Dan 1.2/4	5855	171	ax (80MHz)	29.3/32.5 (MCS0)	77.43
Band 3/4	5815	163	ac (160MHz)	58.5/65 (MCS0)	155.70
	5815	163	ax (160MHz)	58.5/65 (MCS0)	156.00

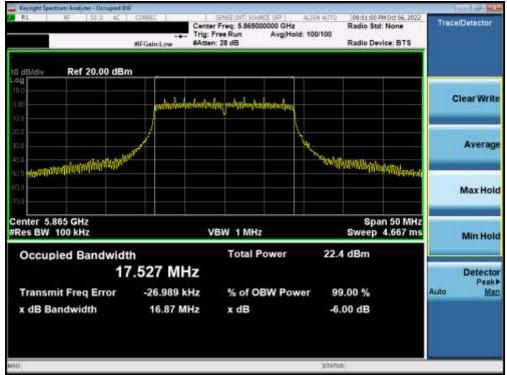
Table 7-7. Conducted Bandwidth Measurements Band 4 MIMO ANT2



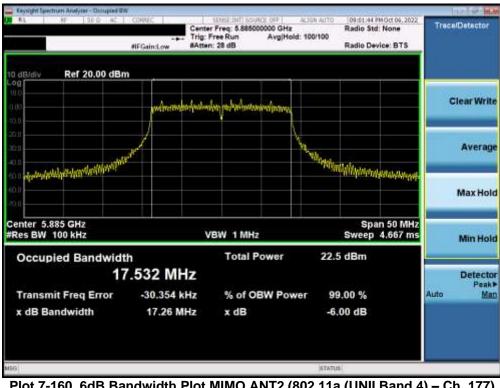
Plot 7-158. 6dB Bandwidth Plot MIMO ANT2 (802.11a (UNII Band 3/4) - Ch. 169)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 00 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 99 of 255
© 2023 ELEMENT	•	•	V9.0 02/01/2019





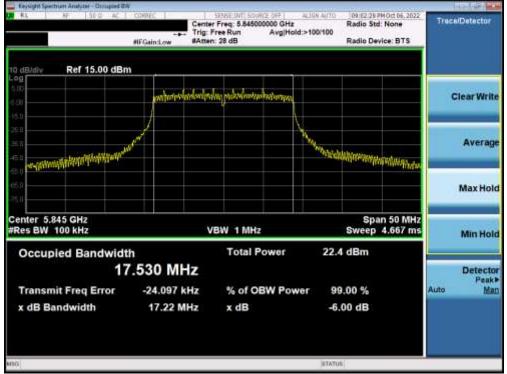
Plot 7-159. 6dB Bandwidth Plot MIMO ANT2 (802.11a (UNII Band 4) - Ch. 173)



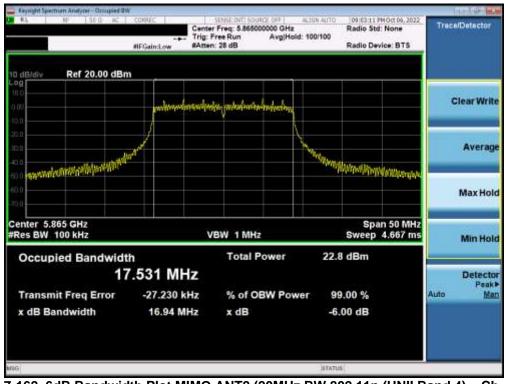
Plot 7-160. 6dB Bandwidth Plot MIMO ANT2 (802.11a (UNII Band 4) - Ch. 177)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 100 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 100 of 255
© 2023 ELEMENT		•	V9.0 02/01/2019





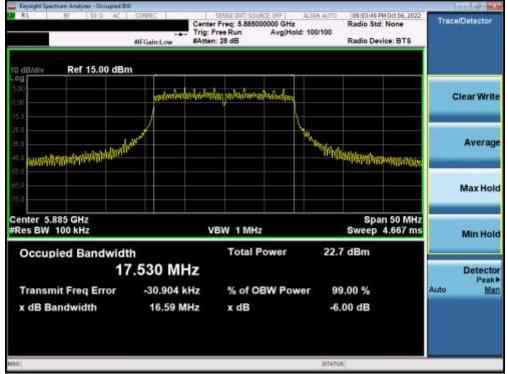
Plot 7-161. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3/4) - Ch. 169)



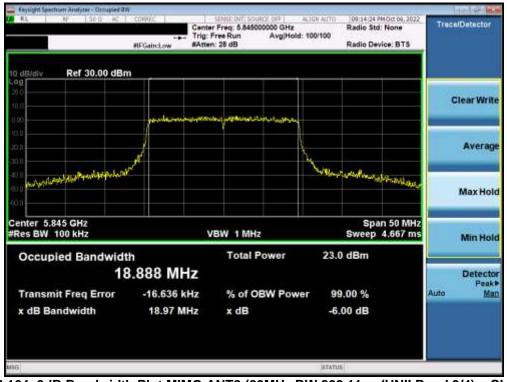
Plot 7-162. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 4) - Ch. 173)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 404 of 055
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 101 of 255
© 2023 ELEMENT	V9.0 02/01/2019		





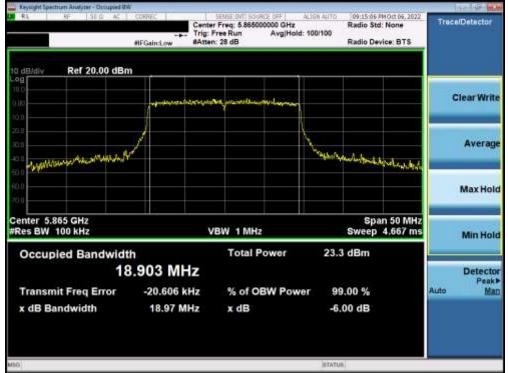
Plot 7-163. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 4) - Ch. 177)



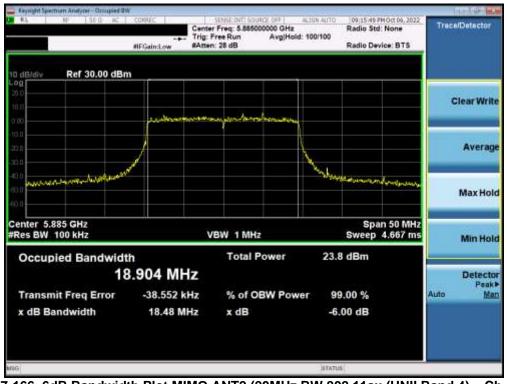
Plot 7-164. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3/4) - Ch. 169)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 400 at 055
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 102 of 255
© 2023 ELEMENT V9.0 02/01/2			





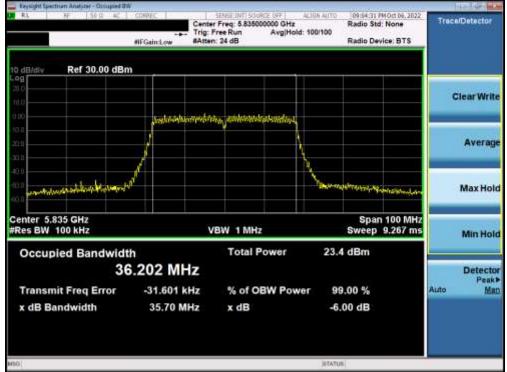
Plot 7-165. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 4) - Ch. 173)



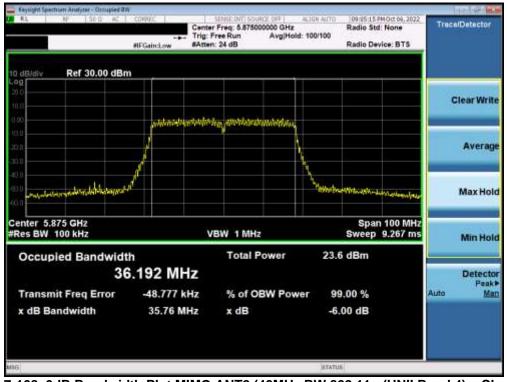
Plot 7-166. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 4) - Ch. 177)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 103 of 255
© 2023 ELEMENT	V9.0 02/01/2019		





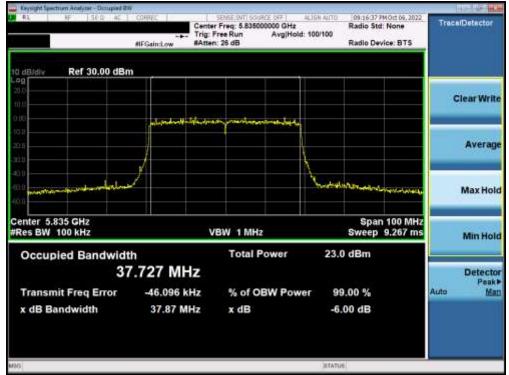
Plot 7-167. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3/4) - Ch. 167)



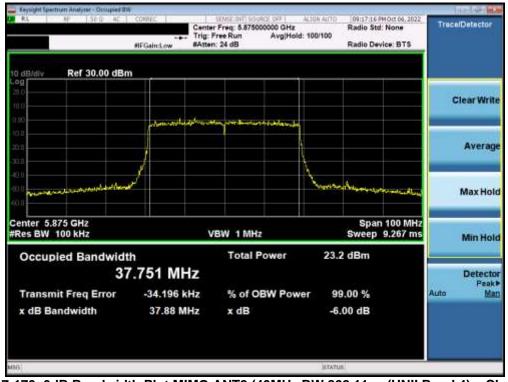
Plot 7-168. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 4) - Ch. 175)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 404 af 055
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 104 of 255
© 2023 ELEMENT	V9.0 02/01/2019		





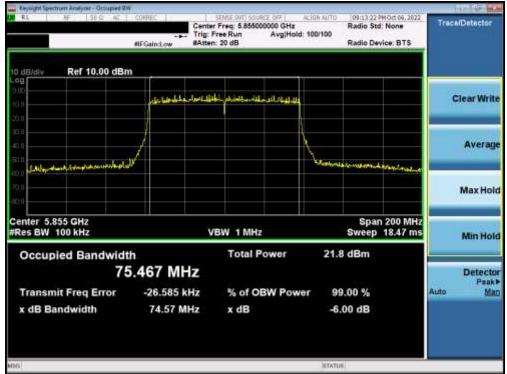
Plot 7-169. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3/4) - Ch. 167)



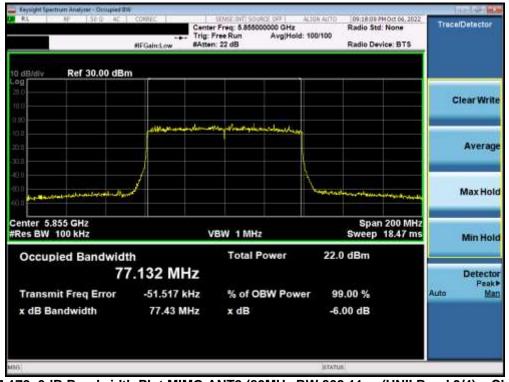
Plot 7-170. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 4) - Ch. 175)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 405 at 055
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 105 of 255
© 2023 ELEMENT V9.0 02/01/2			





Plot 7-171. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3/4) - Ch. 171)



Plot 7-172. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3/4) - Ch. 171)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 100 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 106 of 255
© 2023 ELEMENT V9.0 02/01/2			





Plot 7-173. 6dB Bandwidth Plot MIMO ANT2 (160MHz BW 802.11ac (UNII Band 3/4) - Ch. 163)



Plot 7-174. 6dB Bandwidth Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band 3/4) - Ch. 163)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 107 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 107 of 255
© 2023 ELEMENT V9.0 02/01/2019			



## 7.4 UNII Output Power Measurement – 802.11a/n/ac/ax §15.407(a.1.iv) §15.407(a.2) §15.407(a.3); RSS-247 [6.2]

#### **Test Overview and Limits**

A transmitter antenna terminal of the EUT is connected to the input of an RF pulse power sensor. Measurement is made using a broadband average power meter 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.

In the 5.15 – 5.25GHz band, the maximum permissible conducted output power is 250mW (23.98dBm). The maximum e.i.r.p. shall not exceed 1 Watt (30dBm).

In the 5.25 – 5.35GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or 11 dBm +  $10\log_{10}(26dB BW) = 11 dBm + 10\log_{10}(19.26) = 23.85dBm$ . The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or 17 + 10 log10B, dBm.

In the 5.47 – 5.725GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or 11 dBm +  $10\log_{10}(26dB BW) = 11 dBm + 10\log_{10}(19.83) = 23.97dBm$ . The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or 17 + 10 log10B, dBm.

In the 5.725 – 5.850GHz band, the maximum permissible conducted output power is 1W (30dBm). The maximum e.i.r.p. shall not exceed 36 dBm.

In the 5.850 – 5.895 GHz band, the maximum permissible e.i.r.p is 30dBm.

#### Test Procedure Used

ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G KDB 789033 D02 v02r01 – Section E)3)b) Method PM-G ANSI C63.10-2013 – Section 14.2 Measure-and-Sum Technique KDB 662911 v02r01 – Section E)1) Measure-and-Sum Technique

#### **Test Settings**

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

#### Test Setup

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



Figure 7-3. Test Instrument & Measurement Setup

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 100 of DEE
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 108 of 255
© 2023 ELEMENT			V9.0 02/01/2019



### **MIMO Maximum Conducted Output Power Measurements**

	Freq [MHz]	Channel	Detector	Cond	lucted Power [	dBm]	Conducted Power Limit	Conducted Power	Directional Ant. Gain	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[]		
	5180	36	AVG	14.89	14.90	17.91	23.98	-6.07	-0.99	16.92	30.00	-13.08
_	5200	40	AVG	14.98	14.92	17.96	23.98	-6.02	-0.99	16.97	30.00	-13.03
Ē	5220	44	AVG	14.91	14.45	17.70	23.98	-6.28	-0.99	16.71	30.00	-13.29
<b>b</b>	5240	48	AVG	14.98	14.53	17.77	23.98	-6.21	-0.99	16.78	30.00	-13.22
andwidth	5260	52	AVG	17.55	16.60	20.11	23.85	-3.74	0.40	20.51	30.00	-9.49
p	5280	56	AVG	17.50	16.62	20.09	23.85	-3.76	0.40	20.49	30.00	-9.51
ar	5300	60	AVG	17.39	16.60	20.02	23.85	-3.83	0.40	20.42	30.00	-9.58
Δ	5320	64	AVG	17.91	16.71	20.36	23.85	-3.49	0.40	20.76	30.00	-9.24
ΗZ	5500	100	AVG	17.51	16.53	20.06	23.97	-3.91	-0.81	19.25	30.00	-10.75
	5600	120	AVG	17.65	16.86	20.28	23.97	-3.69	-0.81	19.47	30.00	-10.53
WO	5620	124	AVG	17.62	16.82	20.25	23.97	-3.72	-0.81	19.44	30.00	-10.56
5	5720	144	AVG	17.76	16.86	20.34	23.97	-3.63	-0.81	19.53	30.00	-10.47
ΗZ	5745	149	AVG	17.50	16.49	20.03	30.00	-9.97	-0.58	19.45	36.00	-16.55
	5765	153	AVG	17.77	16.88	20.36	30.00	-9.64	-0.58	19.78	36.00	-16.22
<b>5G</b>	5785	157	AVG	17.63	16.95	20.31	30.00	-9.69	-0.58	19.73	36.00	-16.27
	5805	161	AVG	17.49	16.89	20.21	30.00	-9.79	-0.58	19.63	36.00	-16.37
	5825	165	AVG	17.81	16.60	20.26	30.00	-9.74	-0.58	19.68	36.00	-16.32
	5845	169	AVG	17.65	16.55	20.15			-0.91	19.24	30.00	-10.76
	5865	173	AVG	17.57	16.42	20.04			-0.91	19.13	30.00	-10.87
	5885	177	AVG	17.67	16.85	20.29			-0.91	19.38	30.00	-10.62

Table 7-8. MIMO 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

	Freq [MHz]	Channel	Detector	Conc	lucted Power [	dBm]	Conducted Power Limit	Conducted Power	Directional Ant. Gain	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[]		
	5180	36	AVG	14.89	14.86	17.89	23.98	-6.09	-0.99	16.90	30.00	-13.10
_	5200	40	AVG	14.83	14.92	17.89	23.98	-6.09	-0.99	16.90	30.00	-13.10
<u> </u>	5220	44	AVG	15.00	14.35	17.70	23.98	-6.28	-0.99	16.71	30.00	-13.29
ē	5240	48	AVG	14.82	14.41	17.63	23.98	-6.35	-0.99	16.64	30.00	-13.36
Š	5260	52	AVG	17.90	16.94	20.46	23.85	-3.39	0.40	20.86	30.00	-9.14
andwidth)	5280	56	AVG	17.85	16.92	20.42	23.85	-3.43	0.40	20.82	30.00	-9.18
ar	5300	60	AVG	17.75	16.90	20.36	23.85	-3.49	0.40	20.76	30.00	-9.24
B	5320	64	AVG	17.99	17.00	20.53	23.85	-3.32	0.40	20.93	30.00	-9.07
(20MHz	5500	100	AVG	17.94	17.93	20.95	23.97	-3.02	-0.81	20.14	30.00	-9.86
÷	5600	120	AVG	17.55	16.67	20.14	23.97	-3.83	-0.81	19.33	30.00	-10.67
ō	5620	124	AVG	17.48	16.71	20.12	23.97	-3.85	-0.81	19.31	30.00	-10.69
5	5720	144	AVG	17.71	16.74	20.26	23.97	-3.71	-0.81	19.45	30.00	-10.55
F	5745	149	AVG	17.66	16.72	20.23	30.00	-9.77	-0.58	19.65	36.00	-16.35
T (	5765	153	AVG	17.68	16.81	20.28	30.00	-9.72	-0.58	19.70	36.00	-16.30
5G	5785	157	AVG	17.52	16.85	20.21	30.00	-9.79	-0.58	19.63	36.00	-16.37
	5805	161	AVG	17.45	16.76	20.13	30.00	-9.87	-0.58	19.55	36.00	-16.45
	5825	165	AVG	17.66	16.49	20.12	30.00	-9.88	-0.58	19.54	36.00	-16.46
	5845	169	AVG	17.62	16.45	20.08			-0.91	19.17	30.00	-10.83
	5865	173	AVG	17.94	17.91	20.94			-0.91	20.03	30.00	-9.97
	5885	177	AVG	17.82	16.78	20.34			-0.91	19.43	30.00	-10.57

Table 7-9. MIMO 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 109 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 109 01 255
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	Freq [MHz]	Channel	Detector	Conc	lucted Power [	dBm]	Conducted Power Limit	Conducted Power	Directional Ant. Gain	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[abiii]	Chine [GDin]	mai gin [ab]
	5180	36	AVG	14.64	14.55	17.61	23.98	-6.37	-0.99	16.62	30.00	-13.38
_	5200	40	AVG	14.58	14.63	17.62	23.98	-6.36	-0.99	16.63	30.00	-13.37
<u> </u>	5220	44	AVG	14.76	14.05	17.43	23.98	-6.55	-0.99	16.44	30.00	-13.56
<u>d</u>	5240	48	AVG	14.68	14.13	17.42	23.98	-6.56	-0.99	16.43	30.00	-13.57
Š	5260	52	AVG	17.97	16.95	20.50	23.85	-3.35	0.40	20.90	30.00	-9.10
andwidth	5280	56	AVG	17.95	16.94	20.48	23.85	-3.37	0.40	20.88	30.00	-9.12
a	5300	60	AVG	17.91	16.96	20.47	23.85	-3.38	0.40	20.87	30.00	-9.13
B	5320	64	AVG	17.74	16.64	20.24	23.85	-3.61	0.40	20.64	30.00	-9.36
우	5500	100	AVG	17.95	16.91	20.47	23.97	-3.50	-0.81	19.66	30.00	-10.34
20MHz	5600	120	AVG	17.65	16.76	20.24	23.97	-3.73	-0.81	19.43	30.00	-10.57
ō	5620	124	AVG	17.61	16.81	20.24	23.97	-3.73	-0.81	19.43	30.00	-10.57
5	5720	144	AVG	17.79	16.80	20.33	23.97	-3.64	-0.81	19.52	30.00	-10.48
Hz	5745	149	AVG	17.54	16.50	20.06	30.00	-9.94	-0.58	19.48	36.00	-16.52
<u>4</u>	5765	153	AVG	17.80	16.82	20.35	30.00	-9.65	-0.58	19.77	36.00	-16.23
5 G	5785	157	AVG	17.57	16.88	20.25	30.00	-9.75	-0.58	19.67	36.00	-16.33
	5805	161	AVG	17.91	17.37	20.66	30.00	-9.34	-0.58	20.08	36.00	-15.92
	5825	165	AVG	17.76	16.46	20.17	30.00	-9.83	-0.58	19.59	36.00	-16.41
	5845	169	AVG	17.65	16.42	20.09			-0.91	19.18	30.00	-10.82
	5865	173	AVG	17.53	16.28	19.96			-0.91	19.05	30.00	-10.95
	5885	177	AVG	17.86	16.76	20.36			-0.91	19.45	30.00	-10.55

Table 7-10. MIMO 20MHz BW 802.11ac (UNII) Maximum Conducted Output Power

	Freq [MHz]	Channel	Detector	Conc	lucted Power [	dBm]	Conducted Power Limit	Conducted Power	Directional Ant. Gain	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[]		
	5180	36	AVG	14.95	14.88	17.93	23.98	-6.05	-0.99	16.94	30.00	-13.06
	5200	40	AVG	14.86	14.93	17.91	23.98	-6.07	-0.99	16.92	30.00	-13.08
Ē	5220	44	AVG	14.98	14.47	17.74	23.98	-6.24	-0.99	16.75	30.00	-13.25
<b>b</b>	5240	48	AVG	14.91	14.43	17.69	23.98	-6.29	-0.99	16.70	30.00	-13.30
Bandwidth	5260	52	AVG	17.98	16.90	20.48	23.85	-3.37	0.40	20.88	30.00	-9.12
p	5280	56	AVG	17.90	16.87	20.43	23.85	-3.42	0.40	20.83	30.00	-9.17
ar	5300	60	AVG	17.83	16.88	20.39	23.85	-3.46	0.40	20.79	30.00	-9.21
Δ	5320	64	AVG	17.99	16.95	20.51	23.85	-3.34	0.40	20.91	30.00	-9.09
₽	5500	100	AVG	17.99	16.90	20.49	23.97	-3.48	-0.81	19.68	30.00	-10.32
OMHz	5600	120	AVG	17.64	16.76	20.23	23.97	-3.74	-0.81	19.42	30.00	-10.58
ō	5620	124	AVG	17.56	16.86	20.23	23.97	-3.74	-0.81	19.42	30.00	-10.58
5	5720	144	AVG	17.72	16.83	20.31	23.97	-3.66	-0.81	19.50	30.00	-10.50
N	5745	149	AVG	17.84	16.83	20.37	30.00	-9.63	-0.58	19.79	36.00	-16.21
GHz	5765	153	AVG	17.74	16.77	20.29	30.00	-9.71	-0.58	19.71	36.00	-16.29
20	5785	157	AVG	17.59	16.84	20.24	30.00	-9.76	-0.58	19.66	36.00	-16.34
	5805	161	AVG	17.94	17.35	20.67	30.00	-9.33	-0.58	20.09	36.00	-15.91
	5825	165	AVG	17.79	16.52	20.21	30.00	-9.79	-0.58	19.63	36.00	-16.37
	5845	169	AVG	17.67	16.47	20.12			-0.91	19.21	30.00	-10.79
	5865	173	AVG	17.58	16.37	20.03			-0.91	19.12	30.00	-10.88
	5885	177	AVG	17.89	16.76	20.37			-0.91	19.46	30.00	-10.54

Table 7-11. MIMO 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power

FCC ID: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 110 of DEE
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 110 of 255
© 2023 ELEMENT	•	•	V9.0 02/01/2019



th)	Freq [MHz]	Channel	Detector				Conducted Power Limit	Conducted Power	Directional Ant. Gain	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
Ð				ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[]		
Ξ	5190	38	AVG	16.75	16.06	19.43	23.98	-4.55	-0.99	18.44	30.00	-11.56
andwidth	5230	46	AVG	16.97	15.94	19.50	23.98	-4.48	-0.99	18.51	30.00	-11.49
	5270	54	AVG	16.98	16.19	19.61	23.85	-4.24	0.40	20.01	30.00	-9.99
8	5310	62	AVG	16.74	16.02	19.41	23.85	-4.44	0.40	19.81	30.00	-10.19
F	5510	102	AVG	16.01	16.75	19.41	23.97	-4.56	-0.81	18.60	30.00	-11.40
⇒	5590	118	AVG	16.69	16.82	19.77	23.97	-4.20	-0.81	18.96	30.00	-11.04
(40M	5630	126	AVG	16.80	16.47	19.65	23.97	-4.32	-0.81	18.84	30.00	-11.16
4	5710	142	AVG	16.98	16.87	19.94	23.97	-4.03	-0.81	19.13	30.00	-10.87
<u>N</u>	5755	151	AVG	16.76	15.72	19.28	30.00	-10.72	-0.58	18.70	36.00	-17.30
л Т	5795	159	AVG	16.96	16.21	19.61	30.00	-10.39	-0.58	19.03	36.00	-16.97
56	5835	167	AVG	16.91	15.73	19.37			-0.91	18.46	30.00	-11.54
	5875	175	AVG	16.66	15.62	19.18			-0.91	18.27	30.00	-11.73

Table 7-12. MIMO 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

(H	Freq [MHz]	Channel	Detector				Conducted Power Limit	Conducted Power	Directional Ant. Gain	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
d				ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	11		
Ň	5190	38	AVG	16.57	16.99	19.80	23.98	-4.18	-0.99	18.81	30.00	-11.19
pu	5230	46	AVG	16.78	16.91	19.86	23.98	-4.12	-0.99	18.87	30.00	-11.13
g	5270	54	AVG	16.21	16.63	19.44	23.85	-4.41	0.40	19.84	30.00	-10.16
B	5310	62	AVG	16.57	16.71	19.65	23.85	-4.20	0.40	20.05	30.00	-9.95
Ŧ	5510	102	AVG	16.08	16.79	19.46	23.97	-4.51	-0.81	18.65	30.00	-11.35
ŧ	5590	118	AVG	16.77	16.88	19.84	23.97	-4.13	-0.81	19.03	30.00	-10.97
(40M	5630	126	AVG	16.98	16.45	19.73	23.97	-4.24	-0.81	18.92	30.00	-11.08
4	5710	142	AVG	16.64	16.31	19.49	23.97	-4.48	-0.81	18.68	30.00	-11.32
N	5755	151	AVG	16.80	16.76	19.79	30.00	-10.21	-0.58	19.21	36.00	-16.79
Т.	5795	159	AVG	16.70	16.75	19.74	30.00	-10.26	-0.58	19.16	36.00	-16.84
56	5835	167	AVG	16.91	16.42	19.68			-0.91	18.77	30.00	-11.23
	5875	175	AVG	16.73	16.30	19.53			-0.91	18.62	30.00	-11.38

Table 7-13. MIMO 40MHz BW 802.11ac (UNII) Maximum Conducted Output Power

th)	Freq [MHz]	Freq [MHz] Channel Detector		Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power	Directional Ant. Gain	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
ġ				ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]			
dwidt	5190	38	AVG	16.52	16.74	19.64	23.98	-4.34	-0.99	18.65	30.00	-11.35
ğ	5230	46	AVG	16.50	16.65	19.59	23.98	-4.39	-0.99	18.60	30.00	-11.40
an	5270	54	AVG	16.48	16.88	19.69	23.85	-4.16	0.40	20.09	30.00	-9.91
B	5310	62	AVG	16.87	16.99	19.94	23.85	-3.91	0.40	20.34	30.00	-9.66
₽.	5510	102	AVG	16.38	16.98	19.70	23.97	-4.27	-0.81	18.89	30.00	-11.11
÷.	5590	118	AVG	16.56	16.57	19.58	23.97	-4.39	-0.81	18.77	30.00	-11.23
(40M	5630	126	AVG	16.68	16.22	19.47	23.97	-4.50	-0.81	18.66	30.00	-11.34
4	5710	142	AVG	16.89	16.67	19.79	23.97	-4.18	-0.81	18.98	30.00	-11.02
<u>N</u>	5755	151	AVG	16.60	16.56	19.59	30.00	-10.41	-0.58	19.01	36.00	-16.99
Т.	5795	159	AVG	16.40	16.60	19.51	30.00	-10.49	-0.58	18.93	36.00	-17.07
56	5835	167	AVG	16.95	16.74	19.86			-0.91	18.95	30.00	-11.05
	5875	175	AVG	16.80	16.64	19.73			-0.91	18.82	30.00	-11.18

Table 7-14. MIMO 40MHz BW 802.11ax (UNII) Maximum Conducted Output Power

FCC ID: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 444 af 055
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 111 of 255
© 2023 ELEMENT	•	•	V9.0 02/01/2019



Bandwidth)	Freq [MHz]	Channel	Detector	Cond	lucted Power [	dBm]	Conducted Power Limit	Conducted Power	Directional Ant. Gain	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
i Š				ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	Lapud	Ennie [GBin]	margin [ab]
ano	5210	42	AVG	14.79	14.01	17.43	23.98	-6.55	-0.99	16.44	30.00	-13.56
	5290	58	AVG	15.29	15.93	18.63	23.85	-5.22	0.40	19.03	30.00	-10.97
(80MHz	5530	106	AVG	15.11	15.95	18.56	23.97	-5.41	-0.81	17.75	30.00	-12.25
No.	5610	122	AVG	15.81	15.99	18.91	23.97	-5.06	-0.81	18.10	30.00	-11.90
	5690	138	AVG	15.83	15.50	18.68	23.97	-5.29	-0.81	17.87	30.00	-12.13
GHz	5775	155	AVG	15.57	15.52	18.56	30.00	-11.44	-0.58	17.98	36.00	-18.02
50	5855	171	AVG	15.61	15.11	18.38			-0.91	17.47	30.00	-12.53

Table 7-15. MIMO 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

Bandwidth)	Freq [MHz]	Channel	Detector	Cond	lucted Power [	dBm]	Conducted Power Limit	Conducted Power	Directional Ant. Gain	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
Ň				ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	Lapud	Emilie [dBiii]	margin [ab]
and	5210	42	AVG	14.66	13.86	17.29	23.98	-6.69	-0.99	16.30	30.00	-13.70
	5290	58	AVG	15.36	15.98	18.69	23.85	-5.16	0.40	19.09	30.00	-10.91
Ŧ	5530	106	AVG	15.20	15.91	18.58	23.97	-5.39	-0.81	17.77	30.00	-12.23
(80MHz	5610	122	AVG	15.40	15.58	18.50	23.97	-5.47	-0.81	17.69	30.00	-12.31
	5690	138	AVG	15.86	15.58	18.73	23.97	-5.24	-0.81	17.92	30.00	-12.08
5GHz	5775	155	AVG	15.54	15.54	18.55	30.00	-11.45	-0.58	17.97	36.00	-18.03
50	5855	171	AVG	15.68	15.21	18.46			-0.91	17.55	30.00	-12.45

Table 7-16. MIMO 80MHz BW 802.11ax (UNII) Maximum Conducted Output Power

0MHz dth)	Freq [MHz]	Channel	Detector		lucted Power [	-	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
160 wid				ANT1	ANT2	MIMO	[ubiii]	Margin [ub]	[CDI]			
z ()	5250	50	AVG	14.42	14.01	17.23	23.98	-5.32	-0.99	17.67	30.00	-12.33
GH	5570	114	AVG	15.57	15.91	18.75	23.97	-5.22	-0.81	17.94	36.00	-18.06
50	5815	163	AVG	15.95	15.98	18.98			-0.91	18.07	30.00	-11.93

Table 7-17. MIMO 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power

MHz (th)	Freq [MHz]	:] Channel	Detector	Conducted Power [dBm]			Power Limit F	Conducted Power	Directional Ant. Gain	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
160 wid				ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]			
z (1	5250	50	AVG	14.62	14.28	17.46	23.98	-6.52	-0.99	16.47	30.00	-13.53
GHB	5570	114	AVG	15.53	15.86	18.71	23.97	-5.26	-0.81	17.90	36.00	-18.10
50	5815	163	AVG	15.91	15.98	18.96			-0.91	18.05	30.00	-11.95

Table 7-18. MIMO 160MHz BW 802.11ax (UNII) Maximum Conducted Output Power

FCC ID: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)			
Test Report S/N:	Test Dates:	EUT Type:	Daga 112 of 255		
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 112 of 255		
© 2023 ELEMENT	•	·	V9.0 02/01/2019		



Note:

Per ANSI C63.10-2013 and KDB 662911 v02r01 Section E)1), the conducted powers at Antenna 1 and Antenna 2 were first measured separately during MIMO transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10-2013 Section 14.4.3, the directional gain is calculated using the following formula, where  $G_N$  is the gain of the nth antenna and  $N_{ANT}$ , the total number of antennas used.

Directional gain = 
$$10 \log[(10^{G_{1/20}} + 10^{G_{2/20}} + ... + 10^{G_{N/20}})^2 / N_{ANT}] dBi$$

#### Sample MIMO Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted output power was measured to be 14.89 dBm for Antenna 1 and 14.86 dBm for Antenna 2.

Antenna 1 + Antenna 2 = MIMO

(14.89 dBm + 14.86 dBm) = (30.83 mW + 30.62 mW) = 61.45 mW = 17.89 dBm

#### Sample e.i.r.p Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO conducted power was calculated to be 17.89 dBm with directional gain of -0.99 dBi.

e.i.r.p. (dBm) = Conducted Power (dBm) + Ant gain (dBi)

17.89 dBm + -0.99 dBi = 16.90 dBm

FCC ID: A3LSMS911JPN		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Page 113 of 255	
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset		
© 2023 ELEMENT	•	·	V9.0 02/01/2019	



# 7.5 Maximum Power Spectral Density – 802.11a/n/ac/ax §15.407(a.1.iv) §15.407(a.2) §15.407(a.3); RSS-247 [6.2]

#### **Test Overview and Limit**

The spectrum analyzer was connected to the antenna terminal while the EUT was 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. Method SA-1, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, was used to measure the power spectral density.

#### In the 5.15 – 5.25GHz band, the maximum permissible power spectral density is 11dBm/MHz.

In the 5.25 – 5.35GHz and 5.47 – 5.725GHz bands, the maximum permissible power spectral density is 11dBm/MHz.

In the 5.725 – 5.850GHz band, the maximum permissible power spectral density is 30dBm/500kHz.

#### In the 5.850 – 5.895 GHz, the maximum power spectral density must not exceed 14dBm/MHz e.i.r.p.

#### Test Procedure Used

ANSI C63.10-2013 – Section 12.3.2.2 KDB 789033 D02 v02r01 – Section F ANSI C63.10-2013 – Section 14.3.2.2 Measure-and-Sum Technique KDB 662911 v02r01 – Section E)2) Measure-and-Sum Technique

#### **Test Settings**

- 1. Analyzer was set to the center frequency of the UNII channel under investigation
- 2. Span was set to encompass the entire emission bandwidth of the signal
- 3. RBW = 1MHz
- 4. VBW = 3MHz
- 5. Number of sweep points  $\geq 2 \times (\text{span/RBW})$
- 6. Sweep time = auto
- 7. Detector = power averaging (RMS)
- 8. Trigger was set to free run for all modes
- 9. Trace was averaged over 100 sweeps
- 10. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

#### **Test Setup**

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



#### Figure 7-4. Test Instrument & Measurement Setup

FCC ID: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)			
Test Report S/N:	Test Dates:	EUT Type:	Dogo 111 of 255		
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 114 of 255		
© 2023 ELEMENT			\/0.0.02/01/2010		



### Summed MIMO Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
	5180	36	а	6	5.36	6.27	8.85	11.0	-2.15
	5200	40	а	6	5.37	6.42	8.93	11.0	-2.07
	5240	48	а	6	5.13	6.12	8.66	11.0	-2.34
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	6.27	4.63	8.54	11.0	-2.46
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	6.38	4.94	8.73	11.0	-2.27
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	6.48	4.54	8.63	11.0	-2.37
-	5180	36	ax (20MHz)	6.5/7.2 (MCS0)	5.06	4.70	7.89	11.0	-3.11
Band 1	5200	40	ax (20MHz)	6.5/7.2 (MCS0)	5.08	4.93	8.02	11.0	-2.98
Ba	5240	48	ax (20MHz)	6.5/7.2 (MCS0)	5.51	4.84	8.20	11.0	-2.80
	5190	38	n (40MHz)	13.5/15 (MCS0)	2.18	0.84	4.57	11.0	-6.43
	5230	46	n (40MHz)	13.5/15 (MCS0)	2.66	0.98	4.91	11.0	-6.09
	5190	38	ax (40MHz)	13.5/15 (MCS0)	1.14	0.67	3.92	11.0	-7.08
	5230	46	ax (40MHz)	13.5/15 (MCS0)	1.25	1.00	4.14	11.0	-6.86
	5230	40	ac (80MHz)	29.3/32.5 (MCS0)	-2.90	-4.07	-0.43	11.0	-11.43
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-2.83	-3.41	-0.43	11.0	-11.40
σ	5250	50	ac (160MHz)	58.5/65 (MCS0)	-5.71	-3.94	-1.72	11.0	-12.72
Band 1/2	5250	50	ac (160MHz)	58.5/65 (MCS0)	-4.92	-4.38	-1.63	11.0	-12.63
	5250	50	ax (100ivinz)	6	4.95	6.21	8.64	11.0	-12.63
	5280	56	a	6	5.07	6.29	8.73	11.0	-2.30
	5320	64	a	6	5.22	6.09	8.69	11.0	-2.27
	5260	52				4.83	8.67	11.0	-2.31
		52	n (20MHz)	6.5/7.2 (MCS0)	6.36 6.44	4.68	8.66	11.0	
٩	5280 5320	56 64	n (20MHz) n (20MHz)	6.5/7.2 (MCS0) 6.5/7.2 (MCS0)	6.31	4.68		11.0	-2.34 -2.37
			. ,	. ,			8.63		
Band 2A	5260	52	ax (20MHz)	6.5/7.2 (MCS0)	5.37	4.83	8.12	11.0	-2.88
and	5280	56	ax (20MHz)	6.5/7.2 (MCS0)	5.33	4.66	8.02	11.0	-2.98
ш	5320	64	ax (20MHz)	6.5/7.2 (MCS0)	4.96	4.80	7.89	11.0	-3.11
	5270	54	n (40MHz)	13.5/15 (MCS0)	2.68	0.96	4.92	11.0	-6.08
	5310	62	n (40MHz)	13.5/15 (MCS0)	2.61	0.79	4.81	11.0	-6.19
	5270	54	ax (40MHz)	13.5/15 (MCS0)	1.21	0.83	4.03	11.0	-6.97
	5310	62	ax (40MHz)	13.5/15 (MCS0)	1.62	0.93	4.30	11.0	-6.70
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-2.26	-3.26	0.28	11.0	-10.72
	5290	58	ax (80MHz)	29.3/32.5 (MCS0)	-3.09	-3.28	-0.17	11.0	-11.17
	5500	100	а	6	5.33	6.05	8.72	11.0	-2.28
	5600	120	а	6	4.96	6.47	8.79	11.0	-2.21
	5720	144	а	6	5.99	6.80	9.42	11.0	-1.58
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	6.40	4.64	8.62	11.0	-2.38
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	5.96	4.85	8.45	11.0	-2.55
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	6.46	5.08	8.83	11.0	-2.17
	5500	100	ax (20MHz)	6.5/7.2 (MCS0)	5.21	4.84	8.04	11.0	-2.96
	5600	120	ax (20MHz)	6.5/7.2 (MCS0)	4.82	4.74	7.79	11.0	-3.21
	5720	144	ax (20MHz)	6.5/7.2 (MCS0)	5.57	5.17	8.38	11.0	-2.62
	5510	102	n (40MHz)	13.5/15 (MCS0)	1.74	1.49	4.62	11.0	-6.38
20	5590	118	n (40MHz)	13.5/15 (MCS0)	2.45	0.47	4.58	11.0	-6.42
Band 2C	5710	142	n (40MHz)	13.5/15 (MCS0)	2.87	0.91	5.01	11.0	-5.99
ä	5510	102	ax (40MHz)	13.5/15 (MCS0)	0.96	1.05	4.02	11.0	-6.98
	5590	118	ax (40MHz)	13.5/15 (MCS0)	1.19	0.50	3.87	11.0	-7.13
	5710	142	ax (40MHz)	13.5/15 (MCS0)	1.80	1.22	4.53	11.0	-6.47
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-2.60	-3.04	0.20	11.0	-10.80
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-2.45	-3.72	-0.03	11.0	-11.03
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-2.01	-2.81	0.62	11.0	-10.38
	5530	106	ax (80MHz)	29.3/32.5 (MCS0)	-2.69	-3.27	0.04	11.0	-10.96
	5610	122	ax (80MHz)	29.3/32.5 (MCS0)	-3.63	-4.06	-0.83	11.0	-11.83
	5690	138	ax (80MHz)	29.3/32.5 (MCS0)	-2.58	-3.19	0.14	11.0	-10.86
	5570	114	ac (160MHz)	58.5/65 (MCS0)	-5.36	-4.71	-2.01	11.0	-13.01
	5570	114	ax (160MHz)	58.5/65 (MCS0)	-5.62	-5.26	-2.42	11.0	-13.42

Table 7-19. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements

FCC ID: A3LSMS911JPN		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Page 115 of 255	
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset		
© 2023 ELEMENT			V9.0 02/01/2019	



	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenn-1 Power Density [dBm]		Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
	5745	149	а	6	2.87	4.08	6.53	30.0	-23.47
	5785	157	а	6	3.53	3.89	6.72	30.0	-23.28
	5825	165	а	6	3.23	3.52	6.39	30.0	-23.61
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	3.99	2.75	6.42	30.0	-23.58
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	3.58	2.15	5.94	30.0	-24.06
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	3.39	1.87	5.70	30.0	-24.30
e	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	2.81	2.48	5.66	30.0	-24.34
Band	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	2.81	2.36	5.60	30.0	-24.40
ä	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	3.28	2.02	5.71	30.0	-24.29
	5755	151	n (40MHz)	13.5/15 (MCS0)	-0.61	-1.85	1.83	30.0	-28.17
	5795	159	n (40MHz)	13.5/15 (MCS0)	-0.20	-1.46	2.22	30.0	-27.78
	5755	151	ax (40MHz)	13.5/15 (MCS0)	-1.19	-1.92	1.47	30.0	-28.53
	5795	159	ax (40MHz)	13.5/15 (MCS0)	-1.42	-1.58	1.51	30.0	-28.49
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-5.13	-5.68	-2.39	30.0	-32.39
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	-5.49	-6.03	-2.74	30.0	-32.74

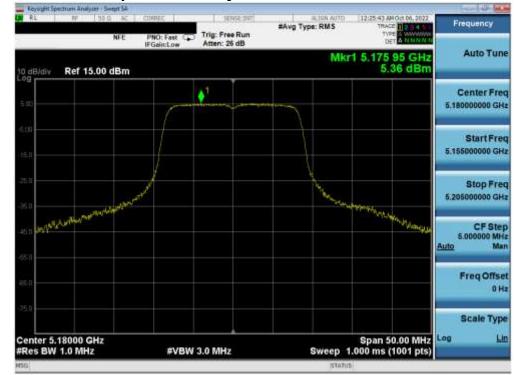
Table 7-20. Band 3 MIMO Conducted Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna-1 Power Density [dBm/MHz]	Antenna-2 Power Density [dBm/MHz]	MIMO Summed Power Density [dBm/MHz]	Directional Antenna Gain [dBi]	EIRP Power Density [dBm/MHz]	Max EIRP Power Density [dBm/MHz]	Margin [dB]
Band 3/4	5845	169	а	6	6.09	4.93	8.56	-0.91	7.65	14.00	-6.35
Band 4	5865	173	а	6	6.42	5.13	8.83	-0.91	7.93	14.00	-6.07
Dallu 4	5885	177	а	6	6.32	5.41	8.90	-0.91	7.99	14.00	-6.01
Band 3/4	5845	169	n (20MHz)	6.5/7.2 (MCS0)	6.12	4.79	8.52	-0.91	7.61	14.00	-6.39
Band 4	5865	173	n (20MHz)	6.5/7.2 (MCS0)	6.40	5.36	8.92	-0.91	8.01	14.00	-5.99
Dallu 4	5885	177	n (20MHz)	6.5/7.2 (MCS0)	6.35	5.50	8.96	-0.91	8.05	14.00	-5.95
Band 3/4	5845	169	ax (20MHz)	6.5/7.2 (MCS0)	6.31	5.25	8.82	-0.91	7.92	14.00	-6.08
Band 4	5865	173	ax (20MHz)	6.5/7.2 (MCS0)	6.11	5.12	8.65	-0.91	7.75	14.00	-6.25
Dallu 4	5885	177	ax (20MHz)	6.5/7.2 (MCS0)	6.27	5.30	8.82	-0.91	7.92	14.00	-6.08
Band 3/4	5835	167	n (40MHz)	13.5/15 (MCS0)	2.23	1.05	4.69	-0.91	3.78	14.00	-10.22
Band 4	5875	175	n (40MHz)	13.5/15 (MCS0)	1.88	0.98	4.47	-0.91	3.56	14.00	-10.44
Band 3/4	5835	167	ax (40MHz)	13.5/15 (MCS0)	2.55	1.41	5.02	-0.91	4.12	14.00	-9.88
Band 4	5875	175	ax (40MHz)	13.5/15 (MCS0)	2.27	1.18	4.77	-0.91	3.86	14.00	-10.14
	5855	171	ac (80MHz)	29.3/32.5 (MCS0)	-2.08	-3.19	0.41	-0.91	-0.50	14.00	-14.50
Rand 2/4	5855	171	ax (80MHz)	29.3/32.5 (MCS0)	-1.56	-3.14	0.73	-0.91	-0.18	14.00	-14.18
Band 3/4	5815	163	ac (160MHz)	58.5/65 (MCS0)	-4.68	-4.08	-1.36	-0.91	-2.26	14.00	-16.26
	5815	163	ax (160MHz)	58.5/65 (MCS0)	-4.77	-3.69	-1.18	-0.91	-2.09	14.00	-16.09

Table 7-21. Band 3/4 MIMO Conducted Power Spectral Density Measurements

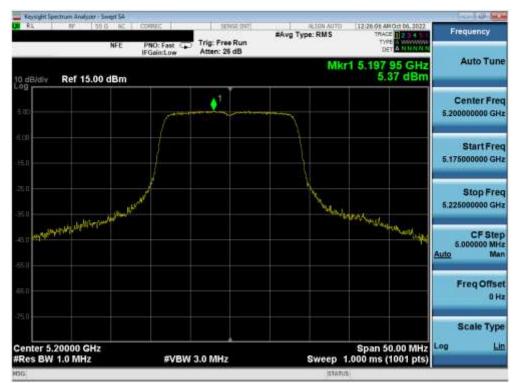
FCC ID: A3LSMS911JPN		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 116 of DEE
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 116 of 255
© 2023 ELEMENT			V9.0 02/01/2019





#### MIMO Antenna-1 Power Spectral Density Measurements

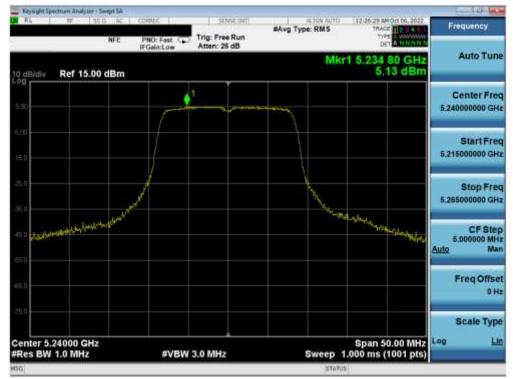




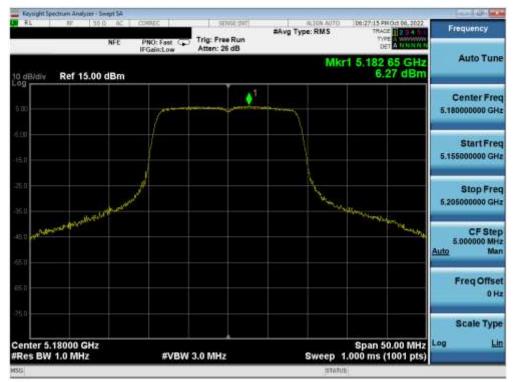
Plot 7-176. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 1) - Ch. 40)

FCC ID: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)			
Test Report S/N:	Test Dates:	EUT Type:	Page 117 of 255		
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset			
© 2023 ELEMENT			V9.0 02/01/2019		





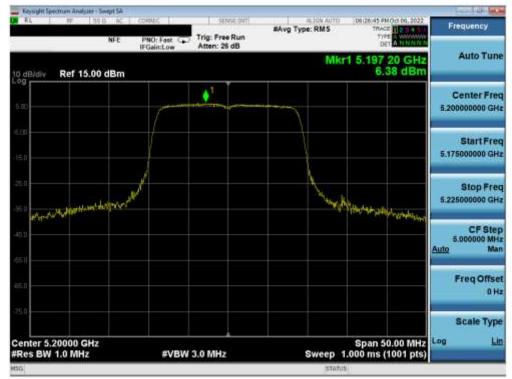
Plot 7-177. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 1) - Ch. 48)



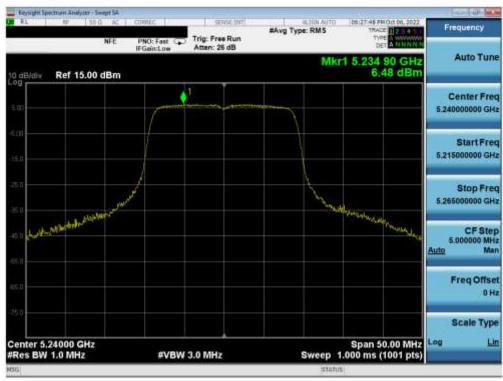
Plot 7-178. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 1) - Ch. 36)

FCC ID: A3LSMS911JPN		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dogo 119 of 255	
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 118 of 255	
© 2023 ELEMENT	•		V9.0 02/01/2019	





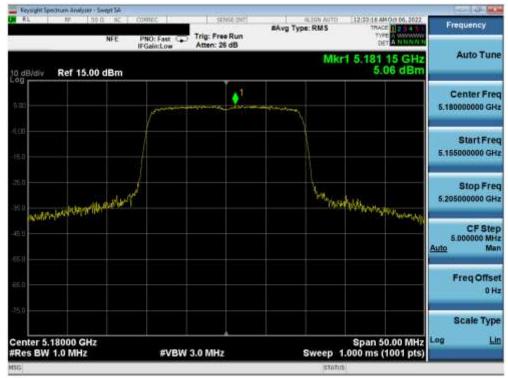
Plot 7-179. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 1) - Ch. 40)



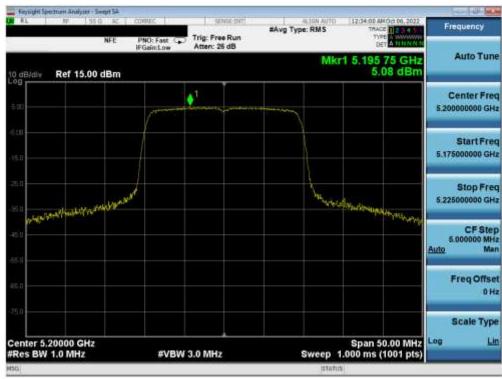
Plot 7-180. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 1) - Ch. 48)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 110 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 119 of 255
© 2023 ELEMENT			V9.0 02/01/2019





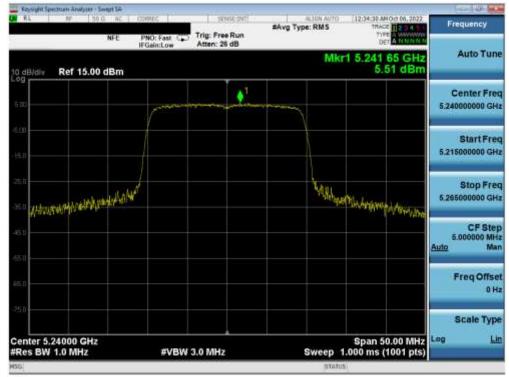
Plot 7-181. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 1) - Ch. 36)



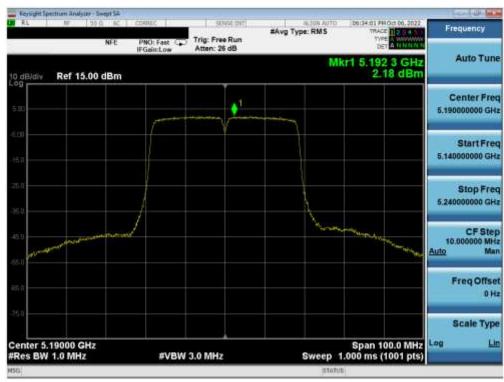
Plot 7-182. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 1) - Ch. 40)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 100 of 055
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 120 of 255
© 2023 ELEMENT	•		V9.0 02/01/2019





Plot 7-183. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 1) - Ch. 48)



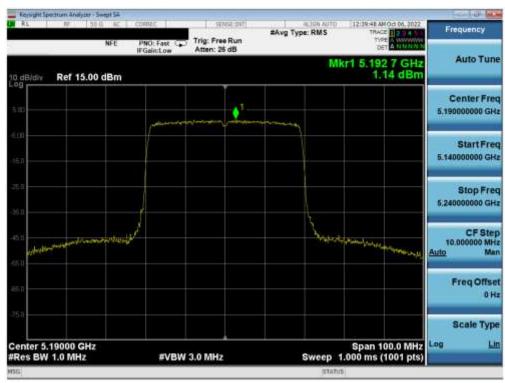
Plot 7-184. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 1) - Ch. 38)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 101 of 055
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 121 of 255
© 2023 ELEMENT	•		V9.0 02/01/2019





Plot 7-185. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 1) - Ch. 46)



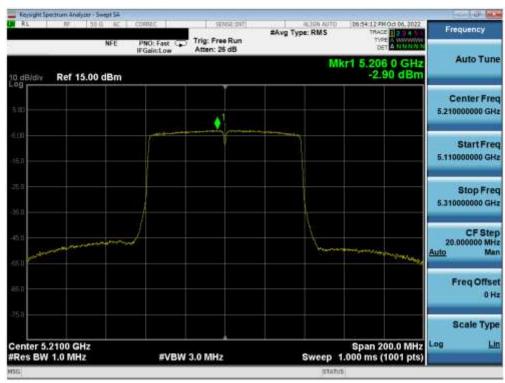
Plot 7-186. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 1) - Ch. 38)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 100 of DEE
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 122 of 255
© 2023 ELEMENT	•		V9.0 02/01/2019





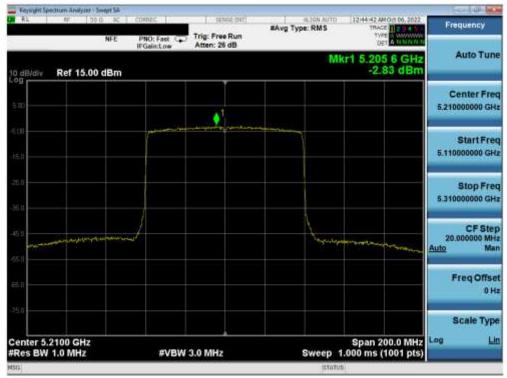
Plot 7-187. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 1) - Ch. 46)



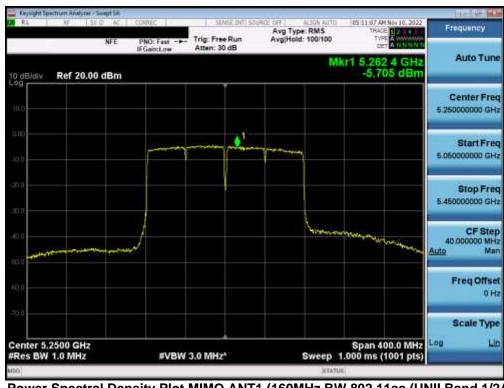
Plot 7-188. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 1) - Ch. 42)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 102 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 123 of 255
© 2023 ELEMENT			V9.0 02/01/2019





Plot 7-189. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 1) - Ch. 42)



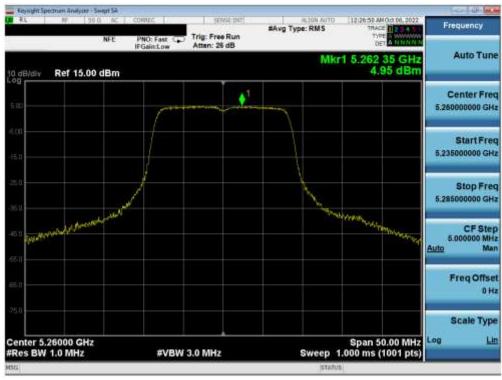
Plot 7-190. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ac (UNII Band 1/2A) - Ch. 50)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 404 af 055
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 124 of 255
© 2023 ELEMENT	•		V9.0 02/01/2019





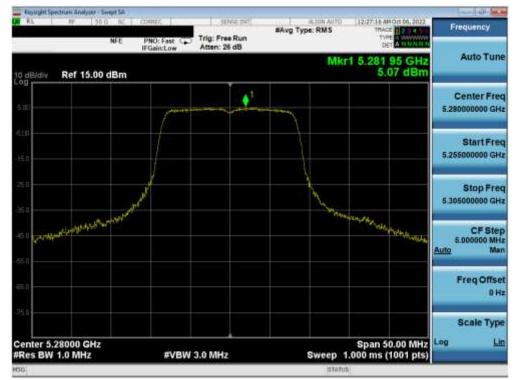
Plot 7-191. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ax (UNII Band 1/2A) - Ch. 50)



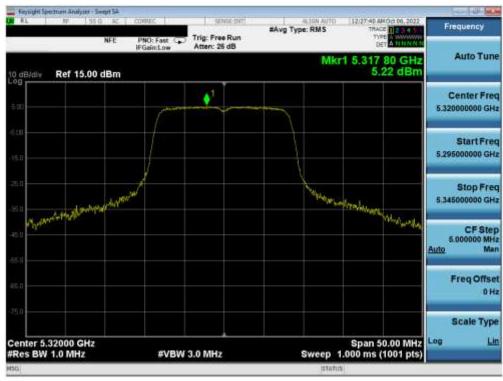
Plot 7-192. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 2A) – Ch. 52)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 105 of 055
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 125 of 255
© 2023 ELEMENT			V9.0 02/01/2019





Plot 7-193. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 2A) - Ch. 56)



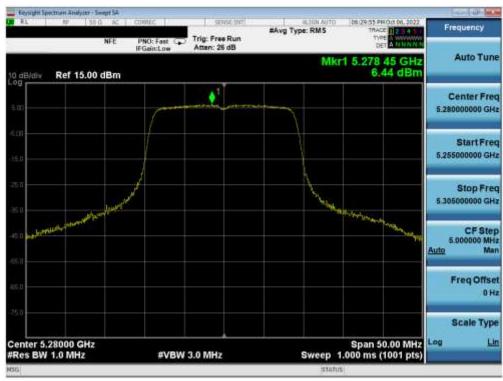
Plot 7-194. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 2A) - Ch. 64)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 100 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 126 of 255
© 2023 ELEMENT	•		V9.0 02/01/2019





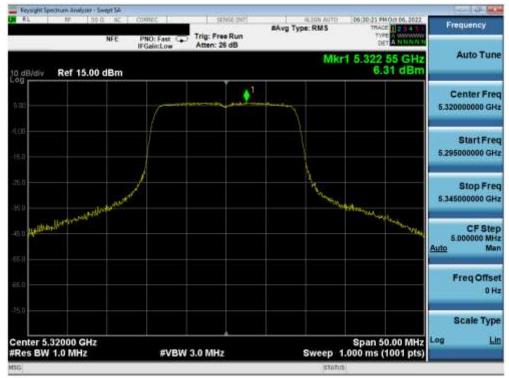
Plot 7-195. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2A) - Ch. 52)



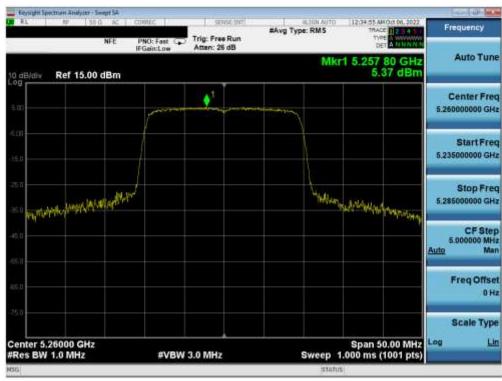
Plot 7-196. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 107 of 055
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 127 of 255
© 2023 ELEMENT		·	V9.0 02/01/2019





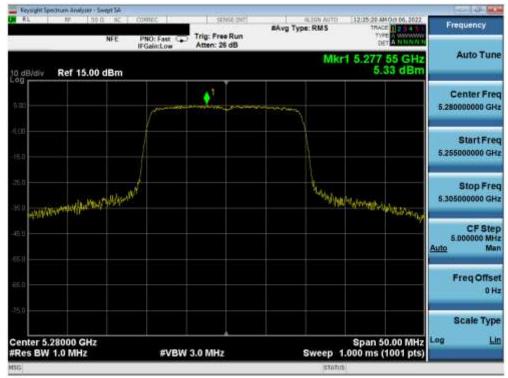
Plot 7-197. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2A) - Ch. 64)



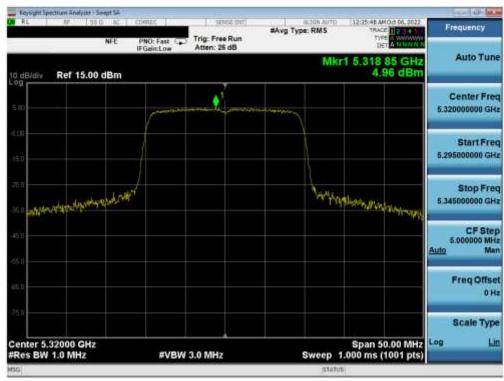
Plot 7-198. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 52)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 100 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 128 of 255
© 2023 ELEMENT			V9.0 02/01/2019





Plot 7-199. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 56)



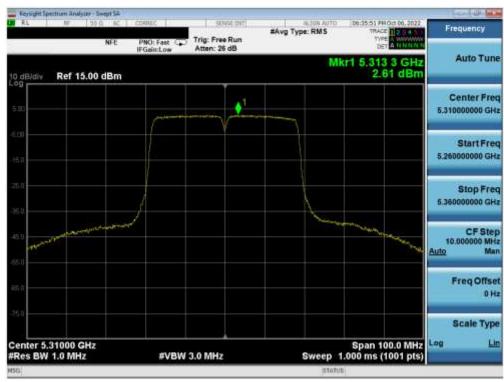
Plot 7-200. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 64)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 100 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 129 of 255
© 2023 ELEMENT	•	•	V9.0 02/01/2019





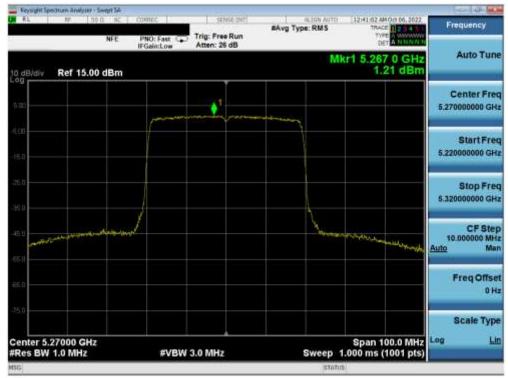
Plot 7-201. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 2A) - Ch. 54)



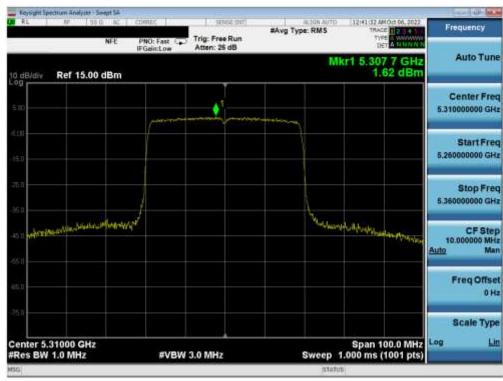
Plot 7-202. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 2A) - Ch. 62)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 120 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 130 of 255
© 2023 ELEMENT		·	V9.0 02/01/2019





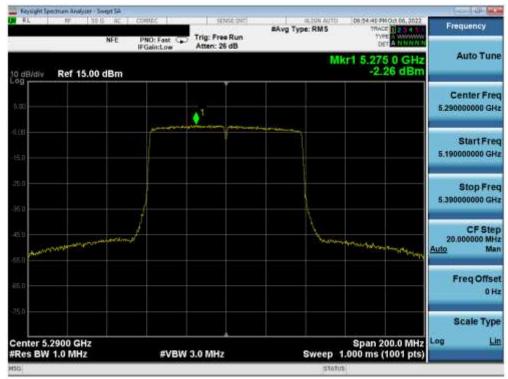
Plot 7-203. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 54)



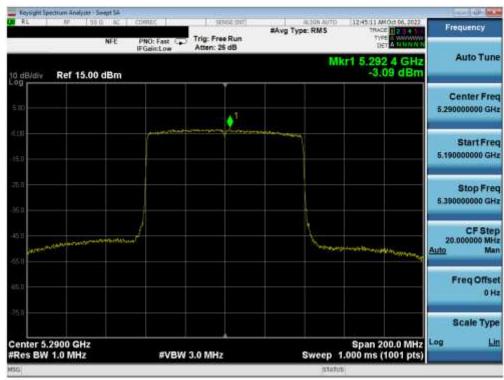
Plot 7-204. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 62)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 121 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 131 of 255
© 2023 ELEMENT	•	·	V9.0 02/01/2019





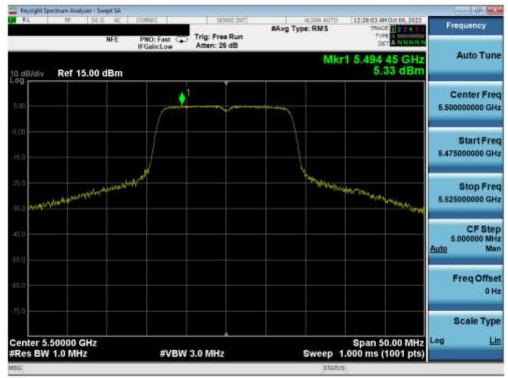
Plot 7-205. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 2A) - Ch. 58)



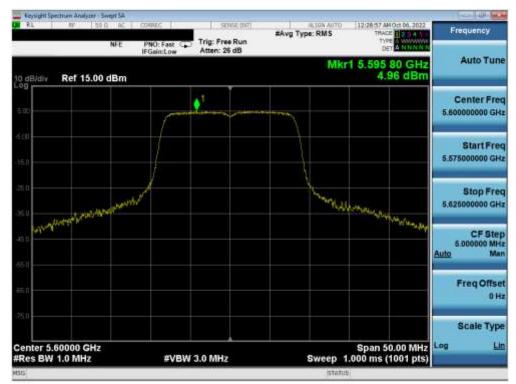
Plot 7-206. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 122 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 132 of 255
© 2023 ELEMENT	•		V9.0 02/01/2019





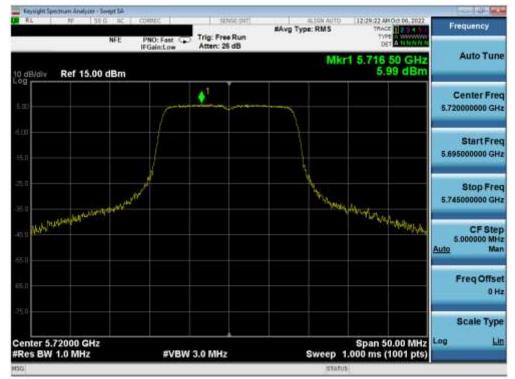
Plot 7-207. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 2C) – Ch. 100)



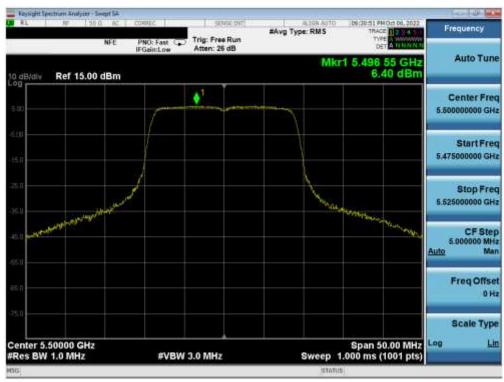
Plot 7-208. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 122 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 133 of 255
© 2023 ELEMENT	•		V9.0 02/01/2019





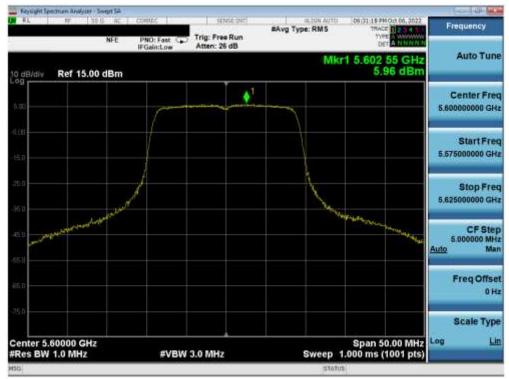
Plot 7-209. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 2C) - Ch. 144)



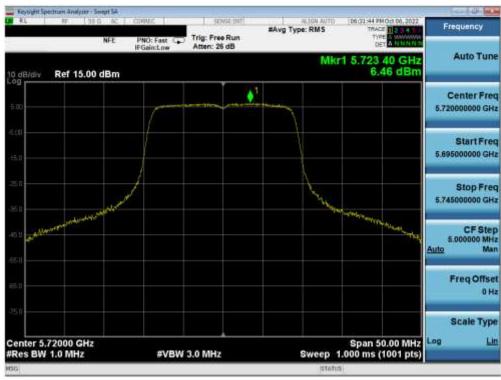
Plot 7-210. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2C) - Ch. 100)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 124 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 134 of 255
© 2023 ELEMENT			V9.0 02/01/2019





Plot 7-211. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2C) - Ch. 120)



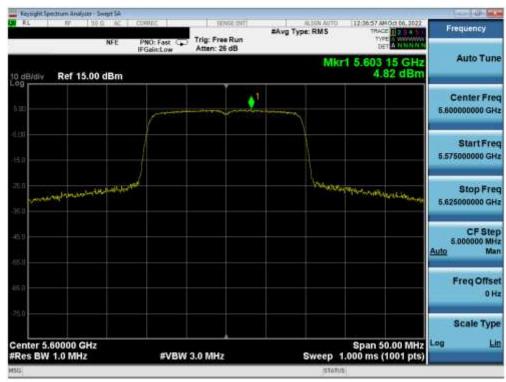
Plot 7-212. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2C) - Ch. 144)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 125 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 135 of 255
© 2023 ELEMENT			V9.0 02/01/2019





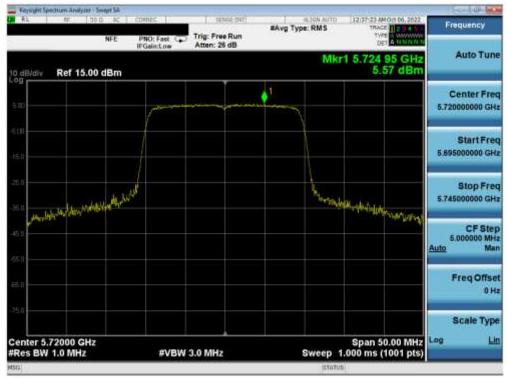
Plot 7-213. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 100)



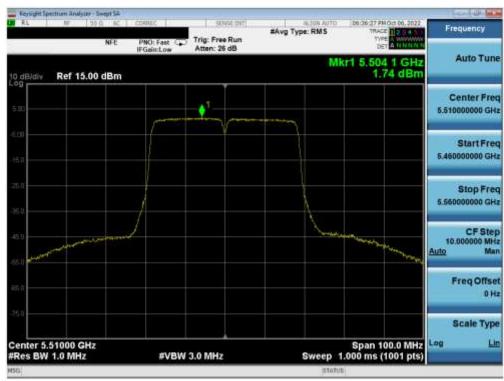
Plot 7-214. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 126 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 136 of 255
© 2023 ELEMENT		·	V9.0 02/01/2019





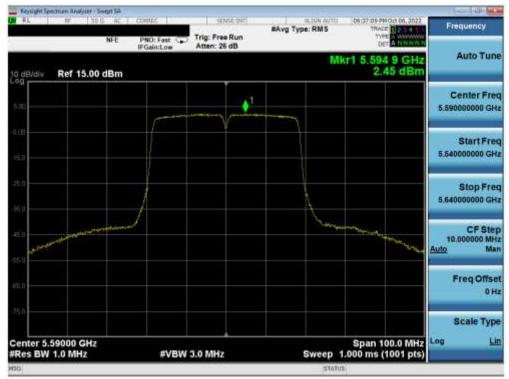
Plot 7-215. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 144)



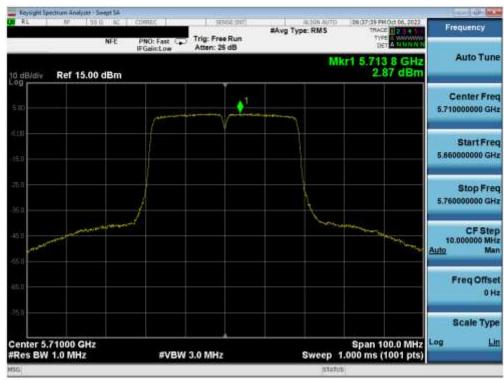
Plot 7-216. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 127 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 137 of 255
© 2023 ELEMENT	•	•	V9.0 02/01/2019





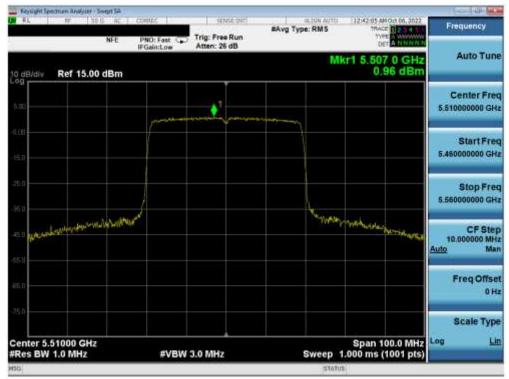
Plot 7-217. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 2C) - Ch. 118)



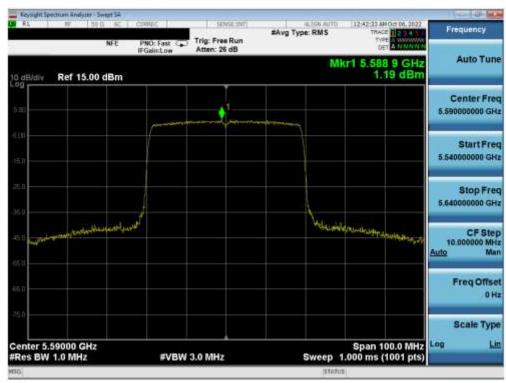
Plot 7-218. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 120 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 138 of 255
© 2023 ELEMENT	•	•	V9.0 02/01/2019





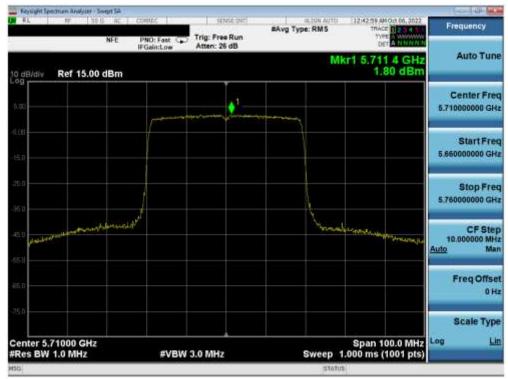
Plot 7-219. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 102)



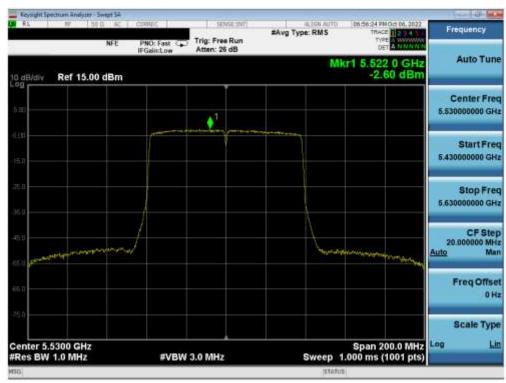
Plot 7-220. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 118)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 120 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 139 of 255
© 2023 ELEMENT	•	•	V9.0 02/01/2019





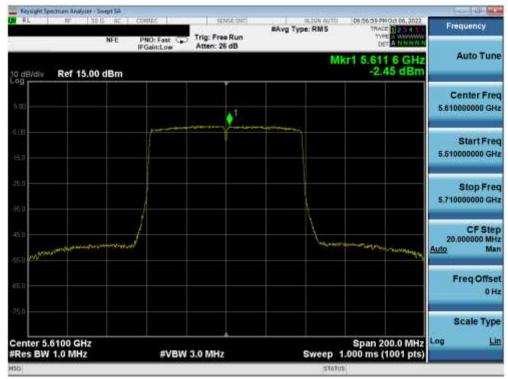
Plot 7-221. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 142)



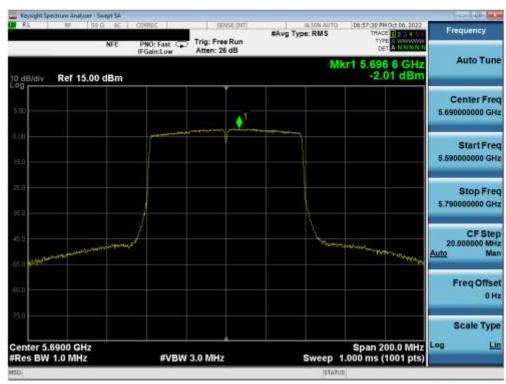
Plot 7-222. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 106)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 140 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 140 of 255
© 2023 ELEMENT			V9.0 02/01/2019





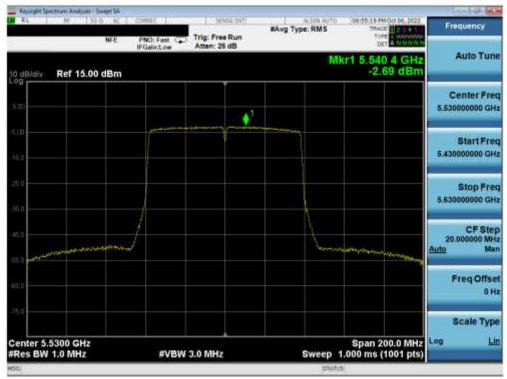
Plot 7-223. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)



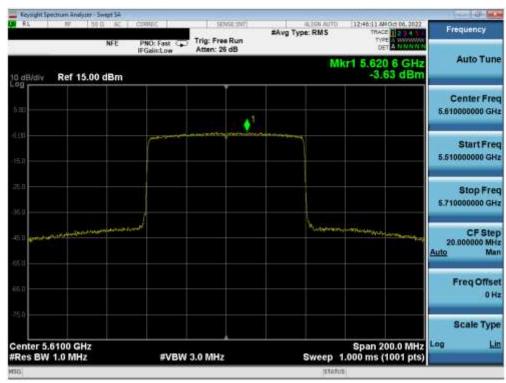
Plot 7-224. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 141 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 141 of 255
© 2023 ELEMENT			V9.0 02/01/2019





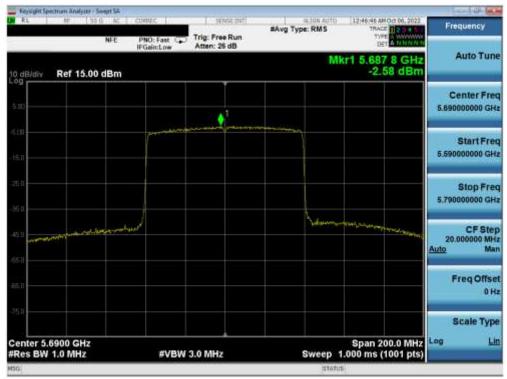
Plot 7-225. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 106)



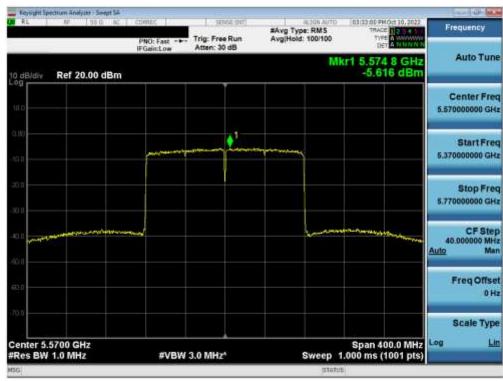
Plot 7-226. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 142 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 142 of 255
© 2023 ELEMENT		•	V9.0 02/01/2019





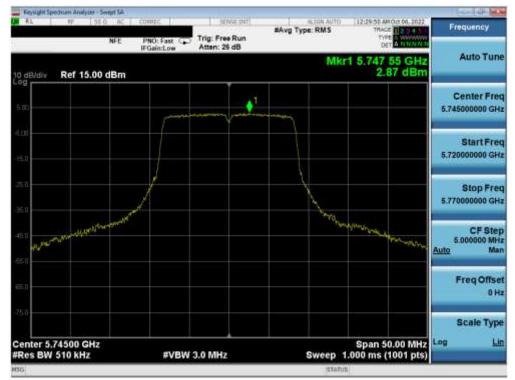
Plot 7-227. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 138)



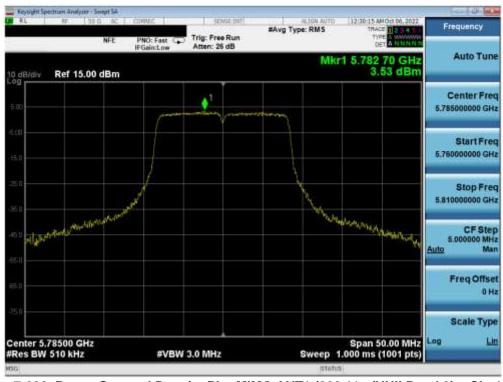
Plot 7-228. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ax (UNII Band 2C) - Ch. 114)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 142 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 143 of 255
© 2023 ELEMENT			V9.0 02/01/2019





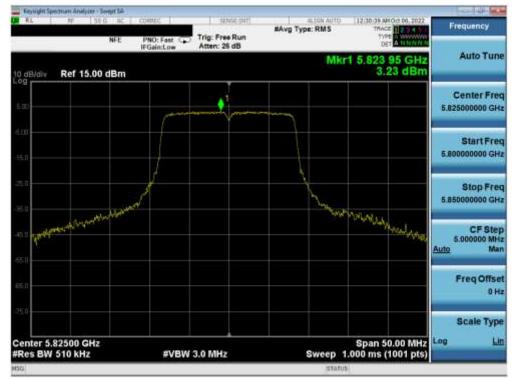
Plot 7-229. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 3) - Ch. 149)



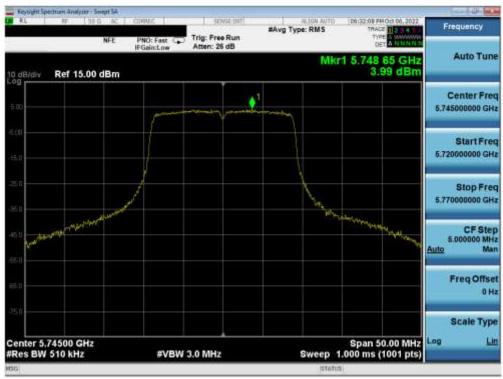
Plot 7-230. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 3) - Ch. 157)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 111 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 144 of 255
© 2023 ELEMENT			V9.0 02/01/2019





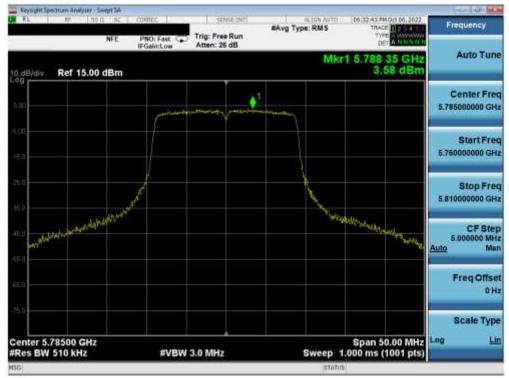
Plot 7-231. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 3) - Ch. 165)



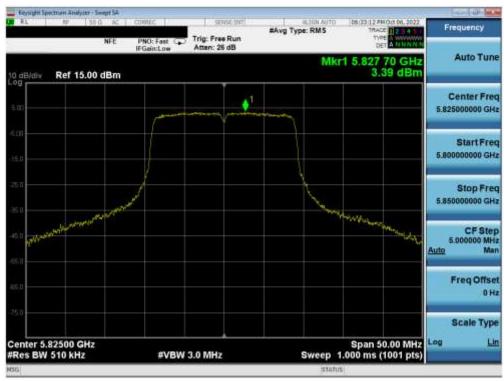
Plot 7-232. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 149)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 145 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 145 of 255
© 2023 ELEMENT	•	•	V9.0 02/01/2019





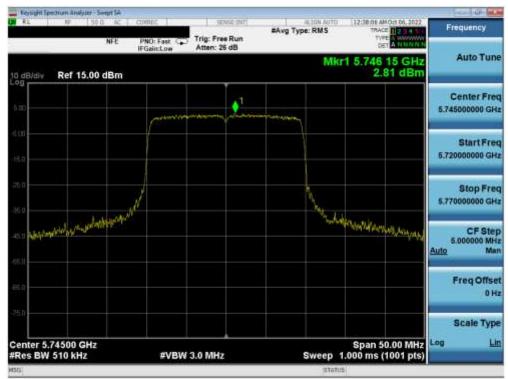
Plot 7-233. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)



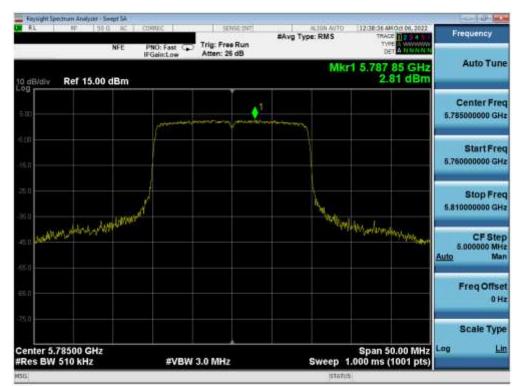
Plot 7-234. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 165)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 146 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 146 of 255
© 2023 ELEMENT	•	•	V9.0 02/01/2019





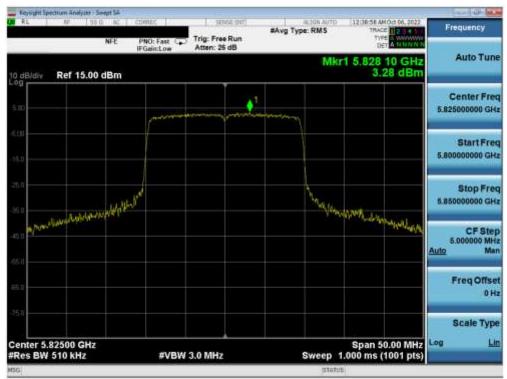
Plot 7-235. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 149)



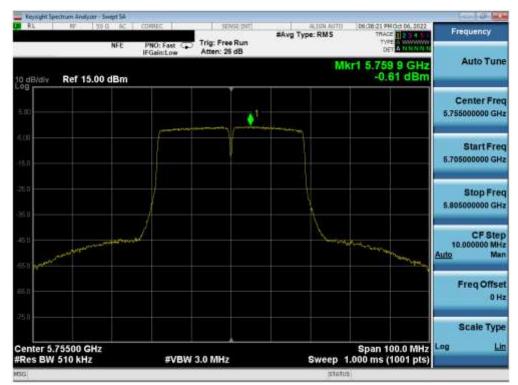
Plot 7-236. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 147 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 147 of 255
© 2023 ELEMENT		·	V9.0 02/01/2019





Plot 7-237. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 165)



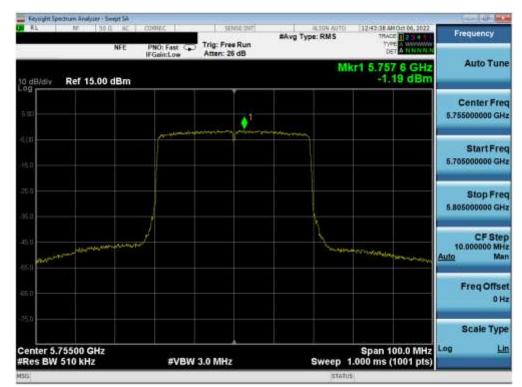
Plot 7-238. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 149 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 148 of 255
© 2023 ELEMENT	•		V9.0 02/01/2019





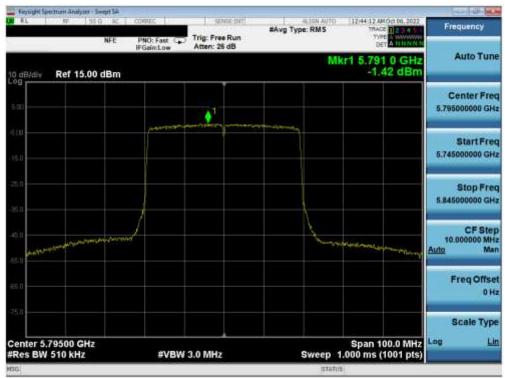
Plot 7-239. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3) - Ch. 159)



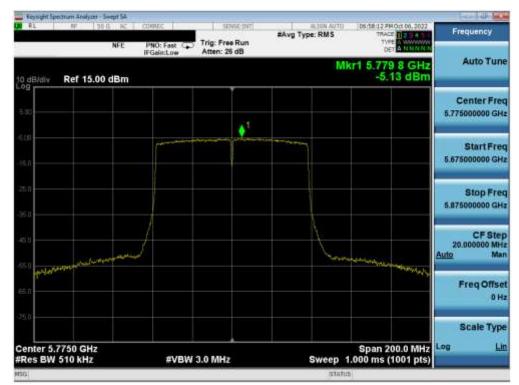
Plot 7-240. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 140 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 149 of 255
© 2023 ELEMENT	•		V9.0 02/01/2019





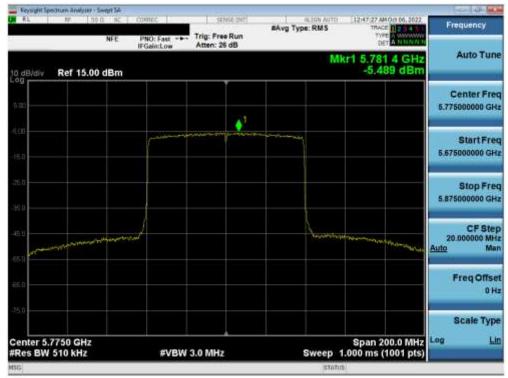
Plot 7-241. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 159)



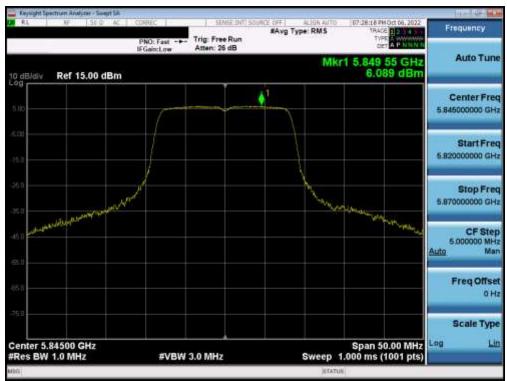
Plot 7-242. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 150 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 150 of 255
© 2023 ELEMENT	•		V9.0 02/01/2019





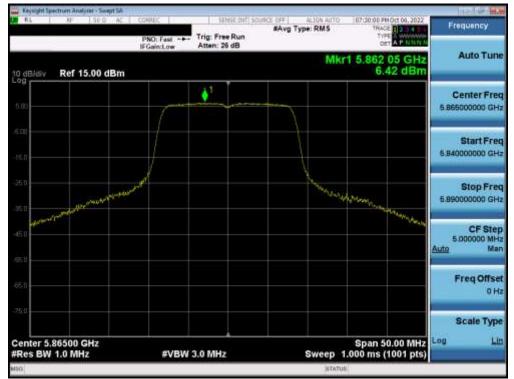
Plot 7-243. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)



Plot 7-244. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 3/4) - Ch. 169)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 151 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 151 of 255
© 2023 ELEMENT		•	V9.0 02/01/2019





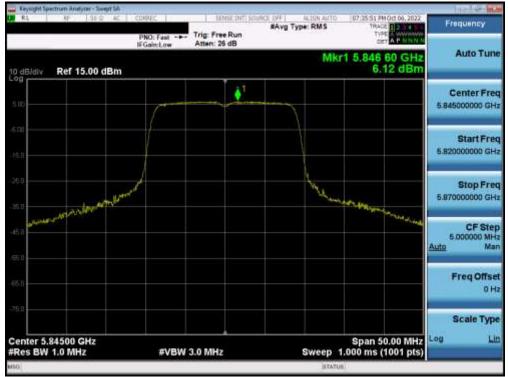
Plot 7-245. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 4) - Ch. 173)



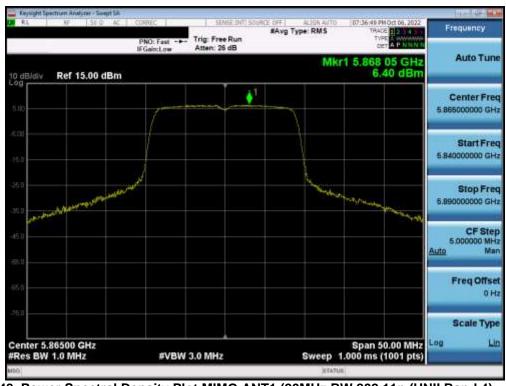
Plot 7-246. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 4) - Ch. 177)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 152 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 152 of 255
© 2023 ELEMENT	•	·	V9.0 02/01/2019





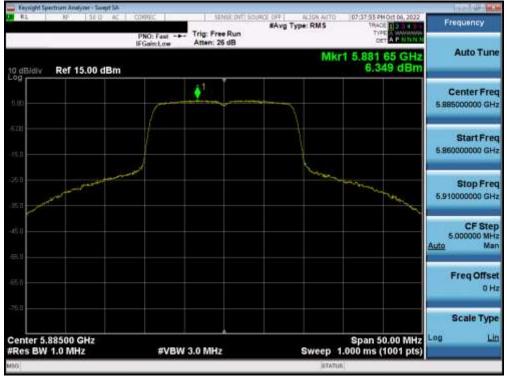
Plot 7-247. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 3/4) - Ch. 169)



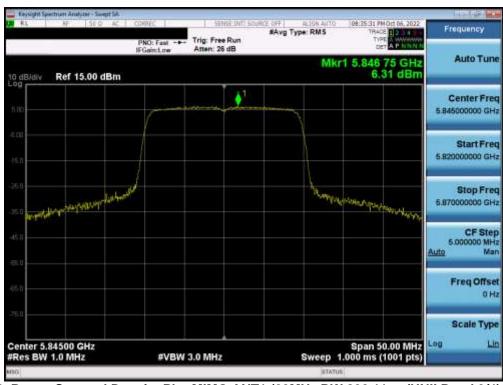
Plot 7-248. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 4) - Ch. 173)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 153 of 255
© 2023 ELEMENT	·	•	V9.0 02/01/2019





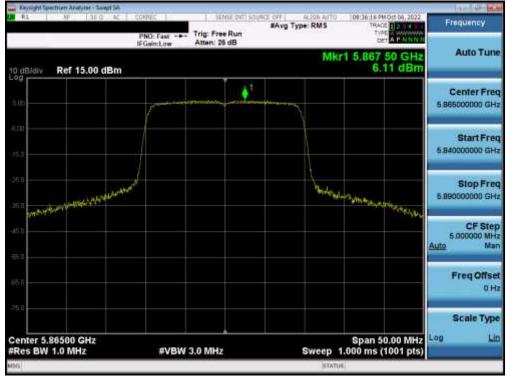
Plot 7-249. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 4) - Ch. 177)



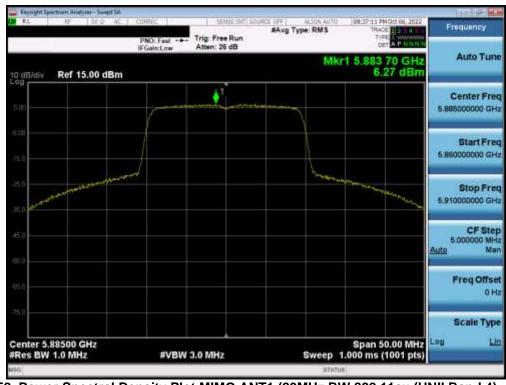
Plot 7-250. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 3/4) - Ch. 169)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 454 cf 055
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 154 of 255
© 2023 ELEMENT	•	•	V9.0 02/01/2019





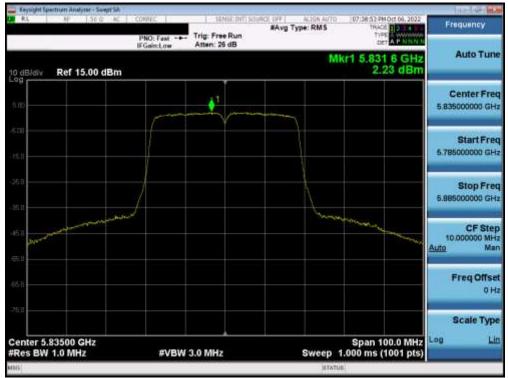
Plot 7-251. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 4) - Ch. 173)



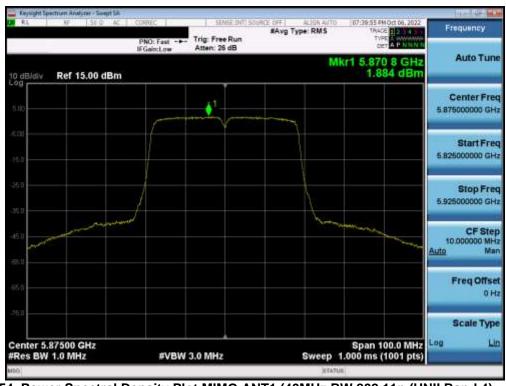
Plot 7-252. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 4) - Ch. 177)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 155 of 255
© 2023 ELEMENT	•		V9.0 02/01/2019





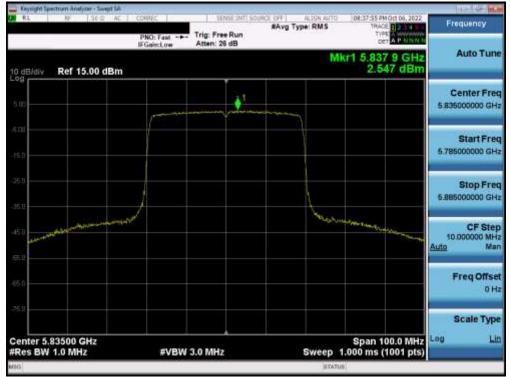
Plot 7-253. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3/4) - Ch. 167)



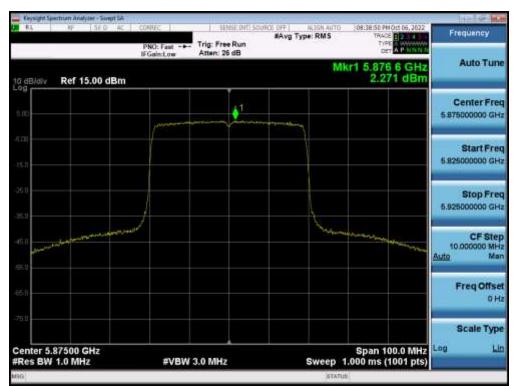
Plot 7-254. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 4) - Ch. 175)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 450 at 055
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 156 of 255
© 2023 ELEMENT	•	·	V9.0 02/01/2019





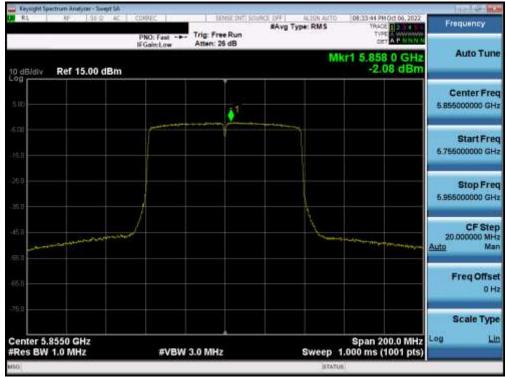
Plot 7-255. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3/4) - Ch. 167)



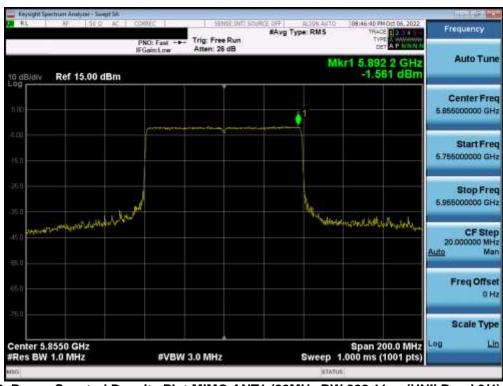
Plot 7-256. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 4) - Ch. 175)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 157 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 157 of 255
© 2023 ELEMENT	•		V9.0 02/01/2019





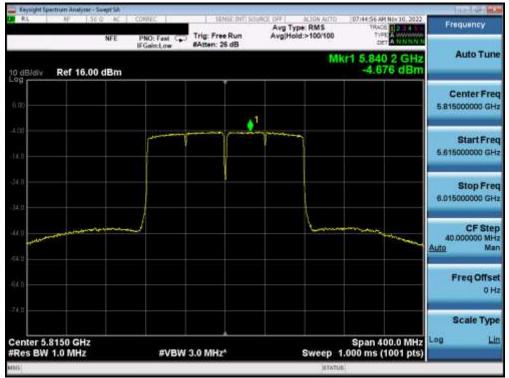
Plot 7-257. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 3/4) - Ch. 171)



Plot 7-258. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 3/4) - Ch. 171)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 450 at 055
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 158 of 255
© 2023 ELEMENT	•	•	V9.0 02/01/2019





Plot 7-259. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ac (UNII Band 3/4) - Ch. 163)

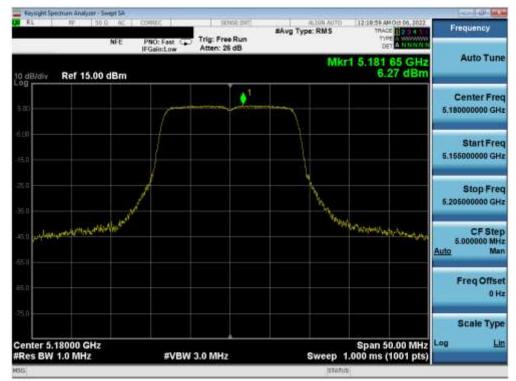


Plot 7-260. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ax (UNII Band 3/4) - Ch. 163)

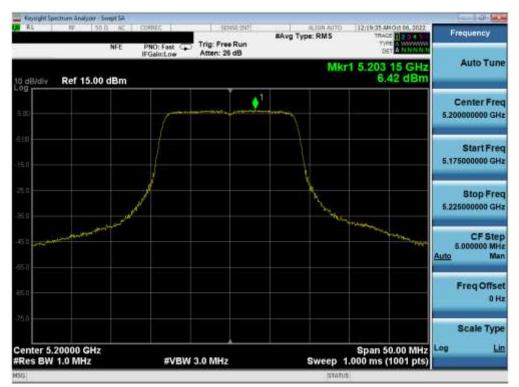
FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 450 at 055
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 159 of 255
© 2023 ELEMENT	•	•	V9.0 02/01/2019



## MIMO Antenna-2 Power Spectral Density Measurements



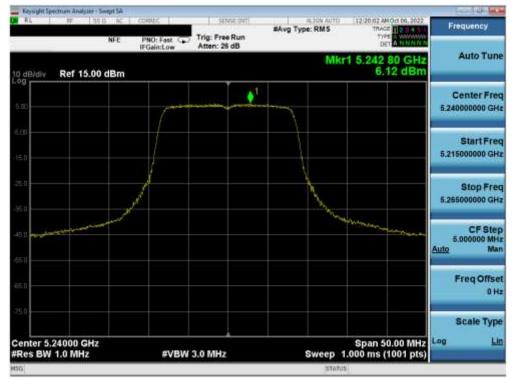
Plot 7-261. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 1) - Ch. 36)



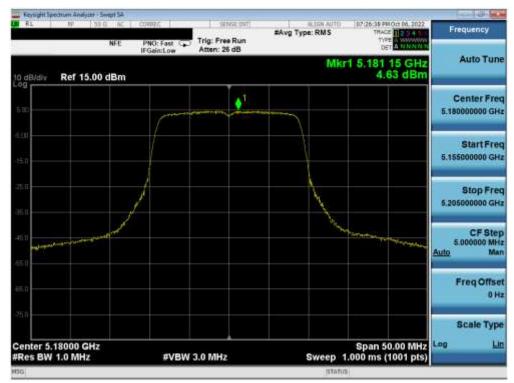
Plot 7-262. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 1) - Ch. 40)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 160 of 255
© 2023 ELEMENT		-	\/9.0.02/01/2019





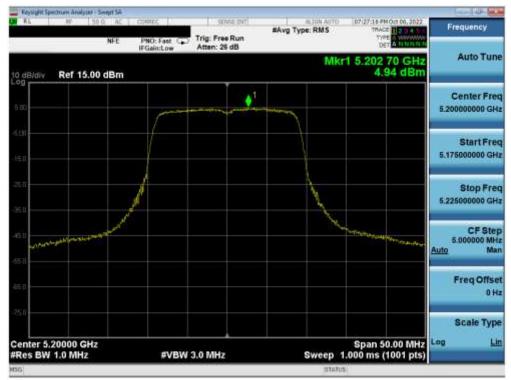
Plot 7-263. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 1) - Ch. 48)



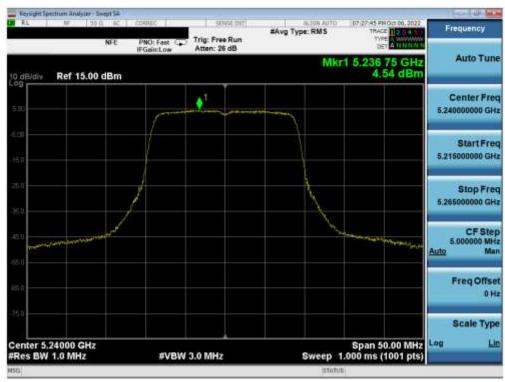
Plot 7-264. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 1) - Ch. 36)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 161 of DEE
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 161 of 255
© 2023 ELEMENT	•		V9.0 02/01/2019





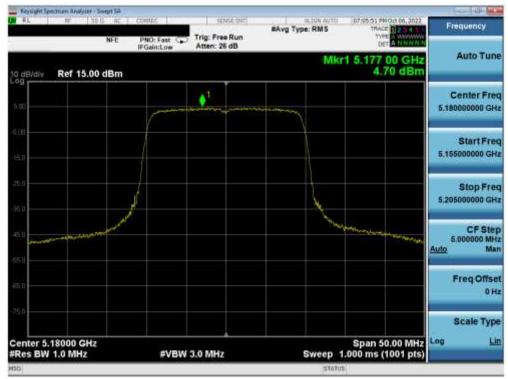
Plot 7-265. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 1) - Ch. 40)



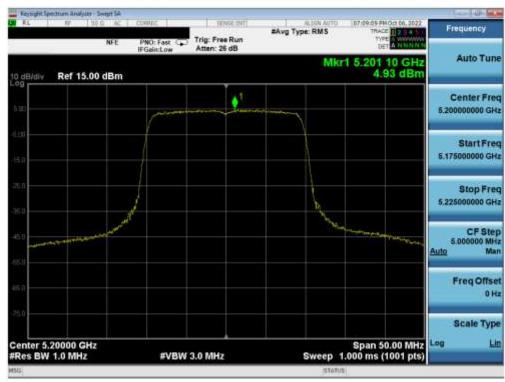
Plot 7-266. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 1) - Ch. 48)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 162 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 162 of 255
© 2023 ELEMENT	•		V9.0 02/01/2019





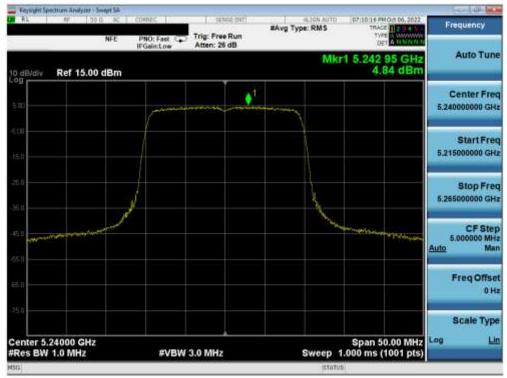
Plot 7-267. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 1) - Ch. 36)



Plot 7-268. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 1) - Ch. 40)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 162 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 163 of 255
© 2023 ELEMENT	•		V9.0 02/01/2019





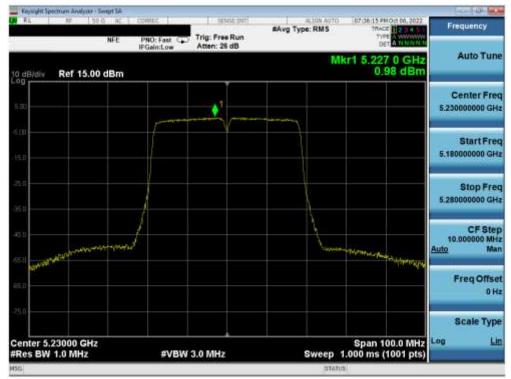
Plot 7-269. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 1) - Ch. 48)



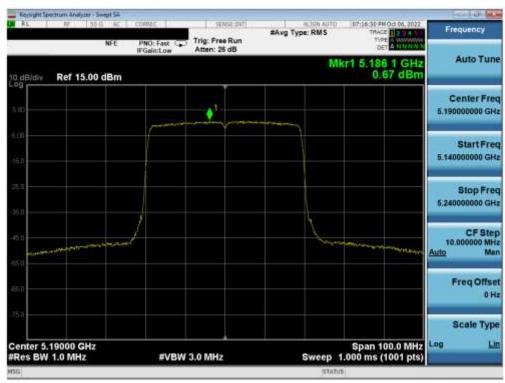
Plot 7-270. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 1) - Ch. 38)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 164 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 164 of 255
© 2023 ELEMENT			V9.0 02/01/2019





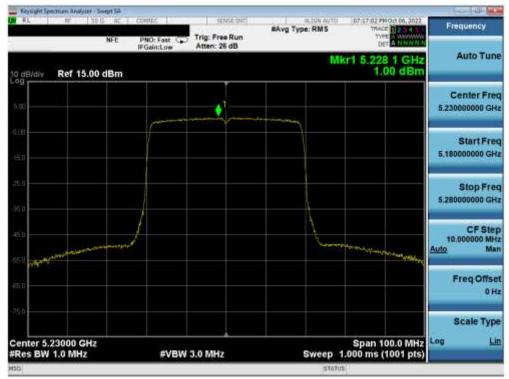
Plot 7-271. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 1) - Ch. 46)



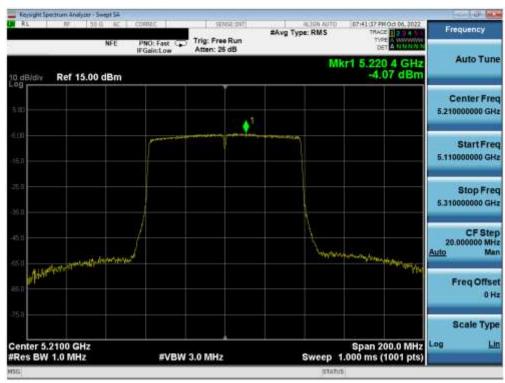
Plot 7-272. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 1) - Ch. 38)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 165 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 165 of 255
© 2023 ELEMENT	•		V9.0 02/01/2019





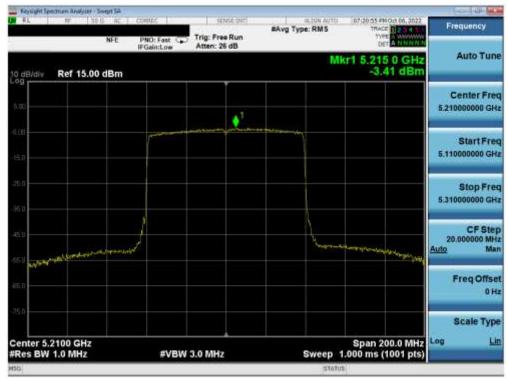
Plot 7-273. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 1) - Ch. 46)



Plot 7-274. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 1) - Ch. 42)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 166 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 166 of 255
© 2023 ELEMENT		·	V9.0 02/01/2019





Plot 7-275. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 1) - Ch. 42)



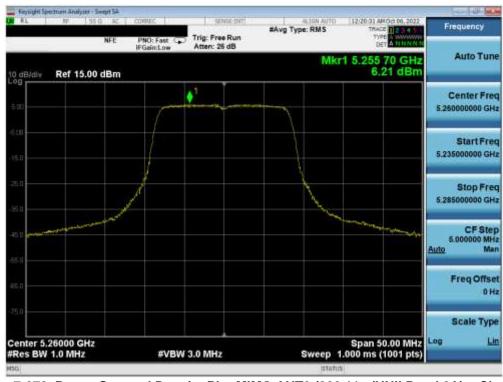
Plot 7-276. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ac (UNII Band 1/2A) - Ch. 50)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 167 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 167 of 255
© 2023 ELEMENT	V9.0 02/01/2019		





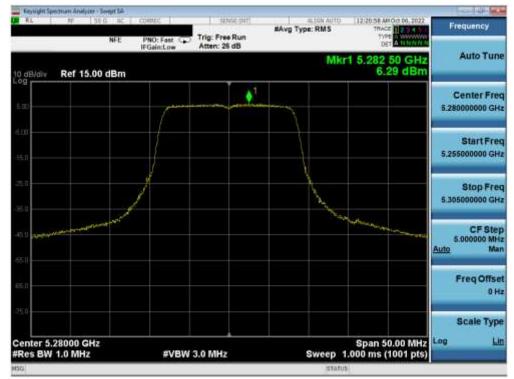
Plot 7-277. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band 1/2A) - Ch. 50)



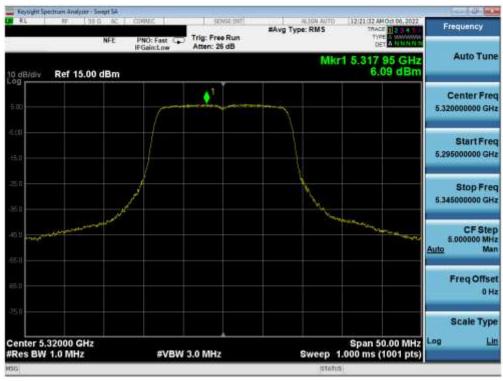
Plot 7-278. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 2A) - Ch. 52)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 169 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 168 of 255
© 2023 ELEMENT	•		V9.0 02/01/2019





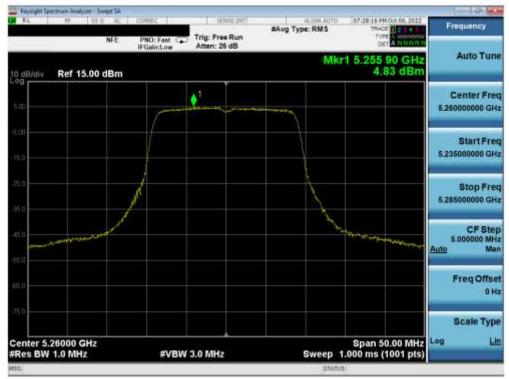
Plot 7-279. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 2A) - Ch. 56)



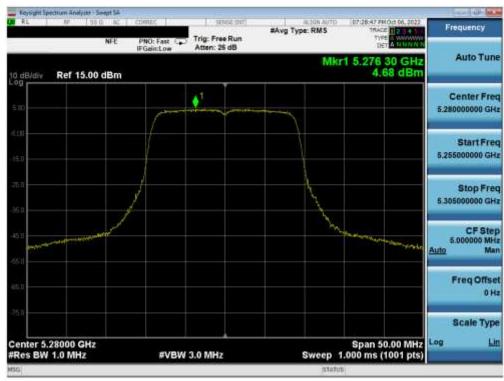
Plot 7-280. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 2A) - Ch. 64)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 160 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 169 of 255
© 2023 ELEMENT			V9.0 02/01/2019





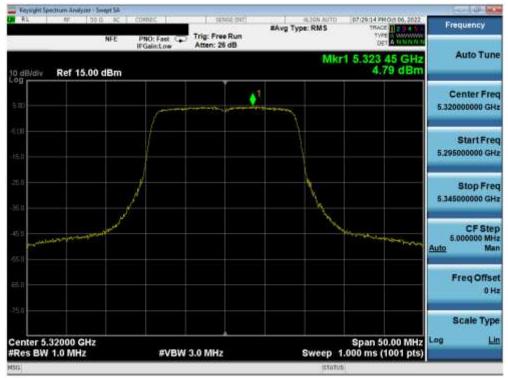
Plot 7-281. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2A) - Ch. 52)



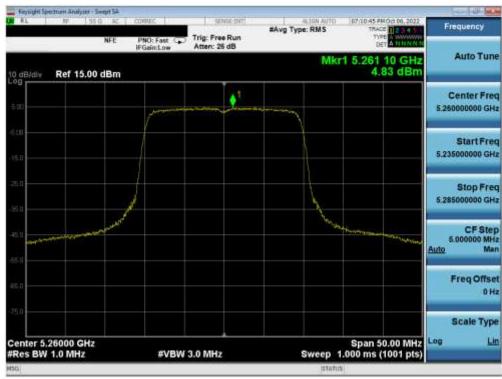
Plot 7-282. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 170 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 170 of 255
© 2023 ELEMENT			V9.0 02/01/2019





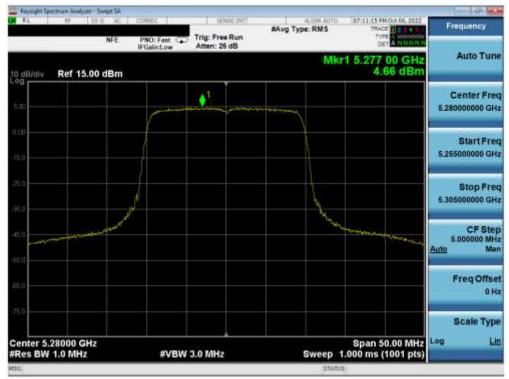
Plot 7-283. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2A) - Ch. 64)



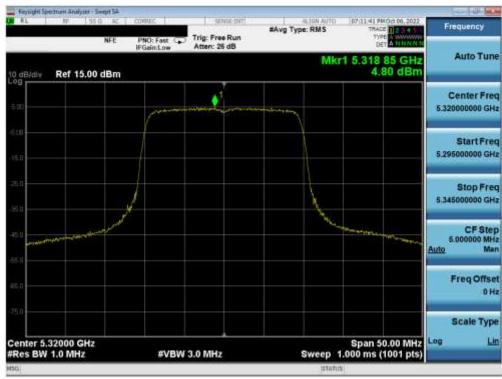
Plot 7-284. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2A) – Ch. 52)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 171 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 171 of 255
© 2023 ELEMENT			V9.0 02/01/2019





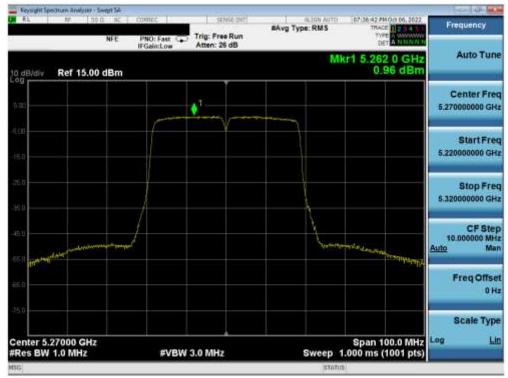
Plot 7-285. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 56)



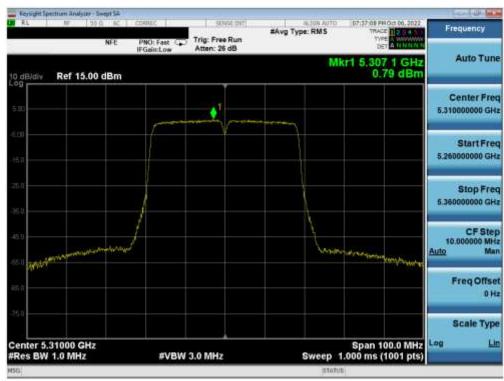
Plot 7-286. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 64)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 172 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 172 of 255
© 2023 ELEMENT	•	•	V9.0 02/01/2019





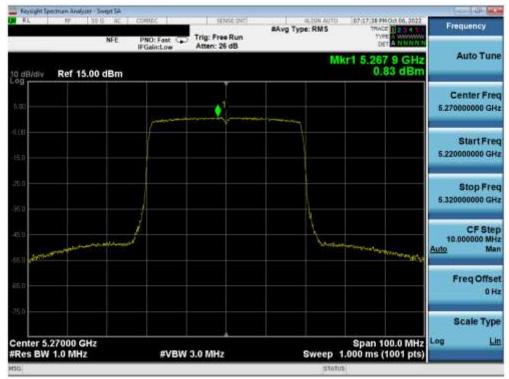
Plot 7-287. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 2A) - Ch. 54)



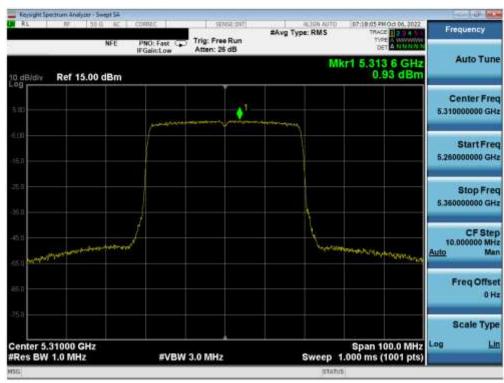
Plot 7-288. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 2A) - Ch. 62)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 172 of DEE
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 173 of 255
© 2023 ELEMENT	•	•	V9.0 02/01/2019





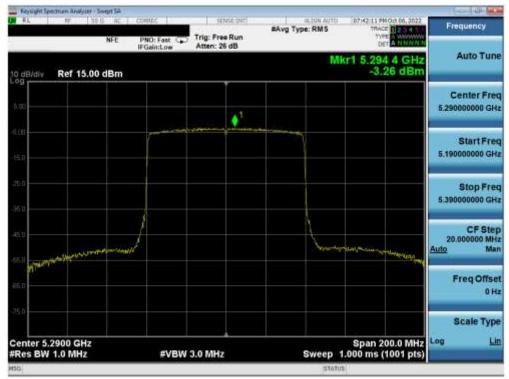
Plot 7-289. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 54)



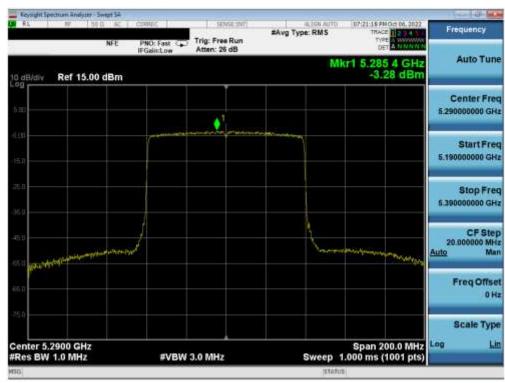
Plot 7-290. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 62)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 174 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 174 of 255
© 2023 ELEMENT	•	•	V9.0 02/01/2019





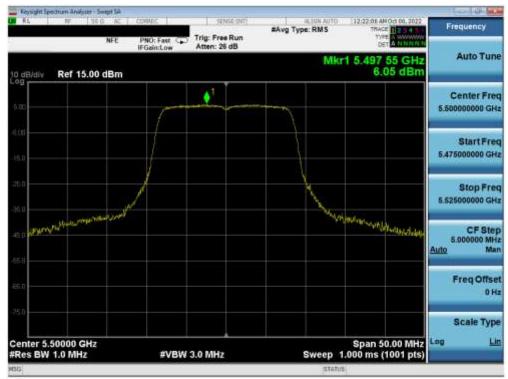
Plot 7-291. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 2A) - Ch. 58)



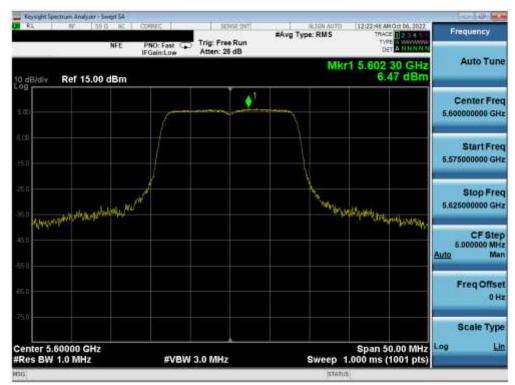
Plot 7-292. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 175 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 175 of 255
© 2023 ELEMENT			V9.0 02/01/2019





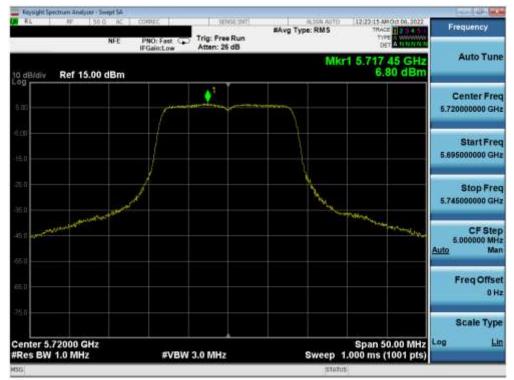
Plot 7-293. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 2C) – Ch. 100)



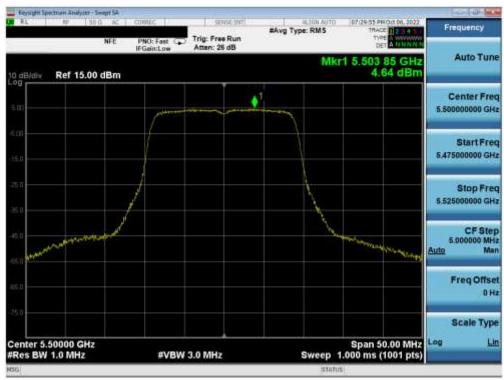
Plot 7-294. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 176 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 176 of 255
© 2023 ELEMENT	•		V9.0 02/01/2019





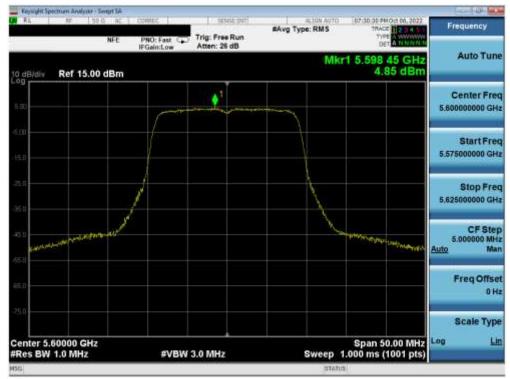
Plot 7-295. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 2C) - Ch. 144)



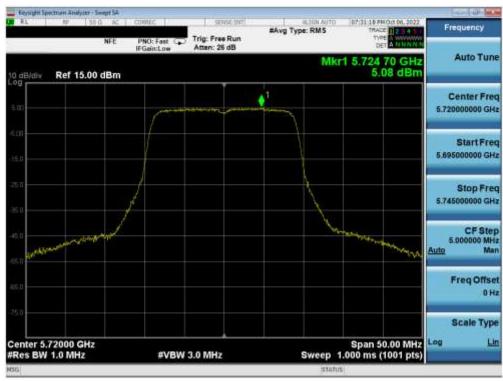
Plot 7-296. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 177 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 177 of 255
© 2023 ELEMENT	•	•	V9.0 02/01/2019





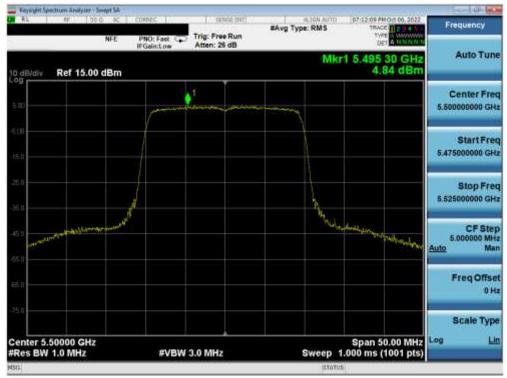
Plot 7-297. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2C) - Ch. 120)



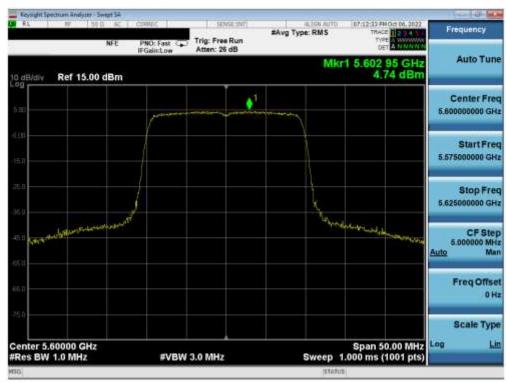
Plot 7-298. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2C) - Ch. 144)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 170 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 178 of 255
© 2023 ELEMENT			V9.0 02/01/2019





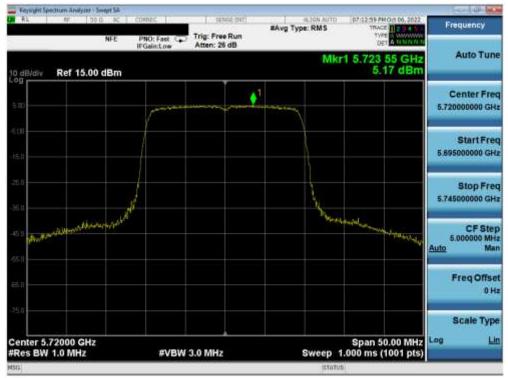
Plot 7-299. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 100)



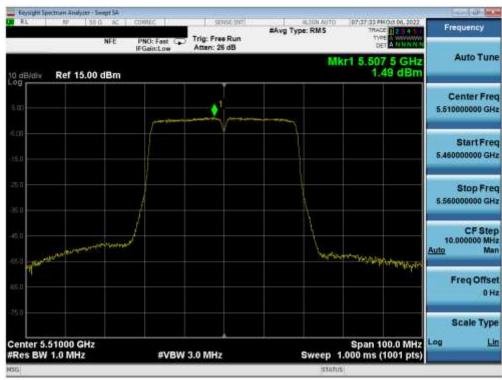
Plot 7-300. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 170 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 179 of 255
© 2023 ELEMENT	•	•	V9.0 02/01/2019





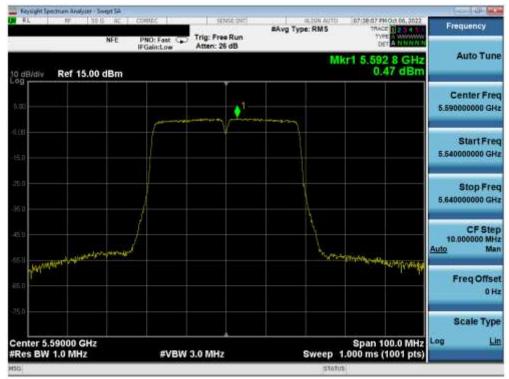
Plot 7-301. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 144)



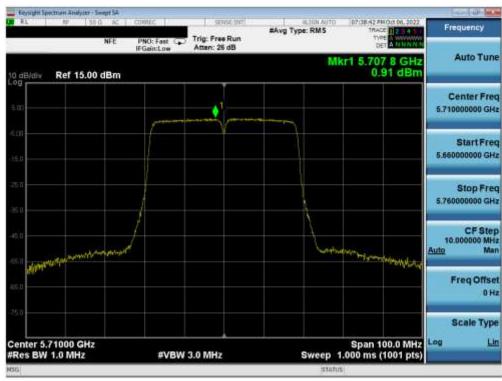
Plot 7-302. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 190 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 180 of 255
© 2023 ELEMENT	•	•	V9.0 02/01/2019





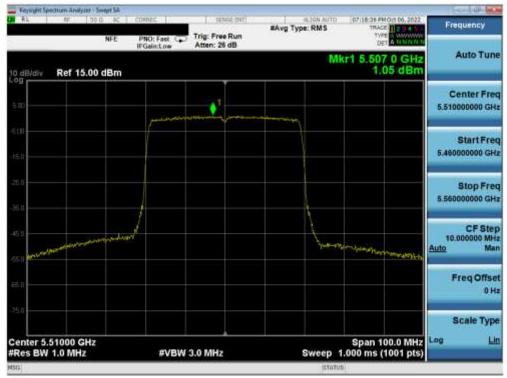
Plot 7-303. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 2C) - Ch. 118)



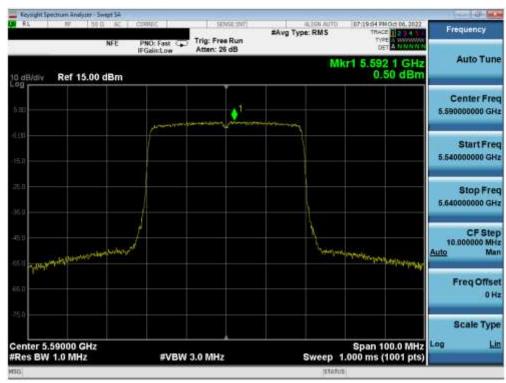
Plot 7-304. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 2C) - Ch. 142)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 191 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 181 of 255
© 2023 ELEMENT			V9.0 02/01/2019





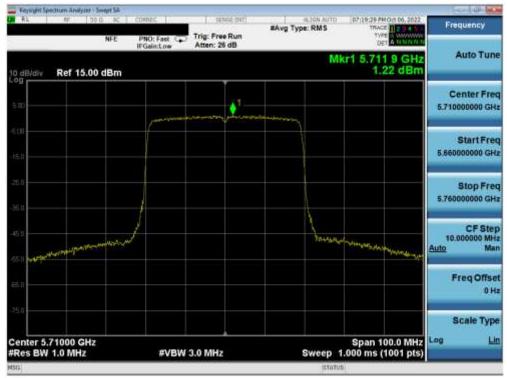
Plot 7-305. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 102)



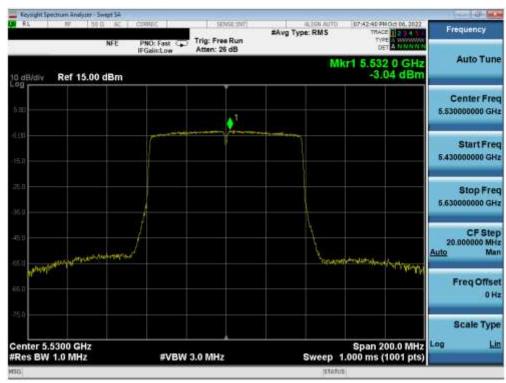
Plot 7-306. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 118)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 192 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 182 of 255
© 2023 ELEMENT			V9.0 02/01/2019





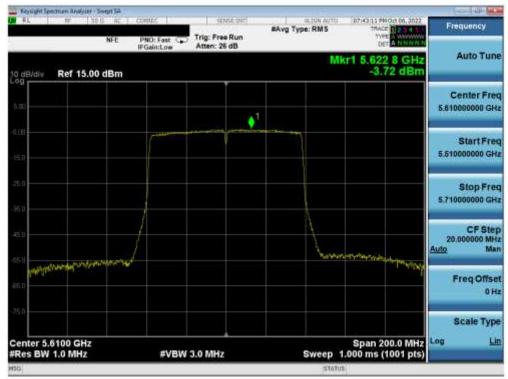
Plot 7-307. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 142)



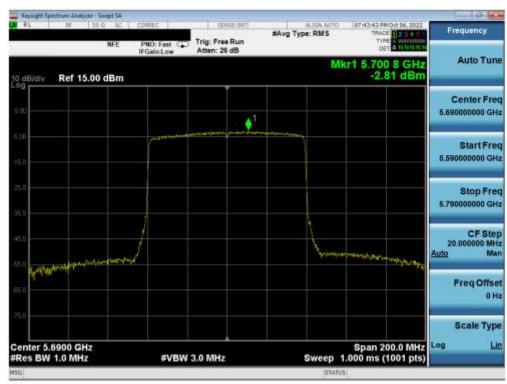
Plot 7-308. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 106)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 192 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 183 of 255
© 2023 ELEMENT			V9.0 02/01/2019





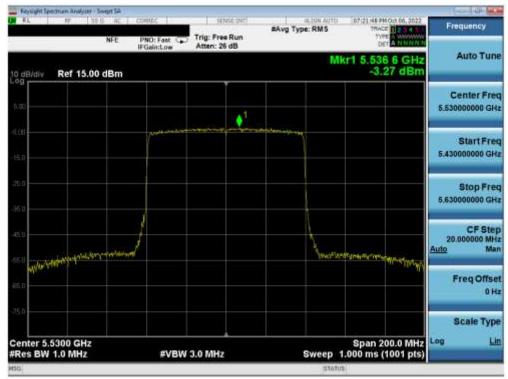
Plot 7-309. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)



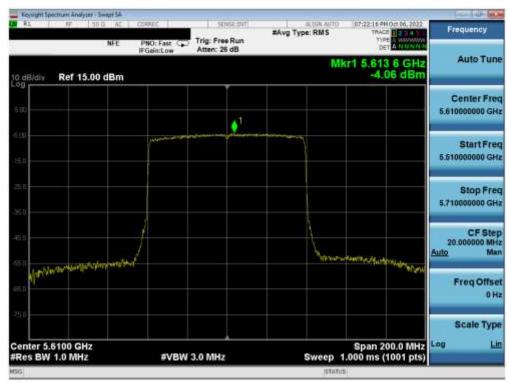
Plot 7-310. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 194 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 184 of 255
© 2023 ELEMENT	<u> </u>		V9.0 02/01/2019





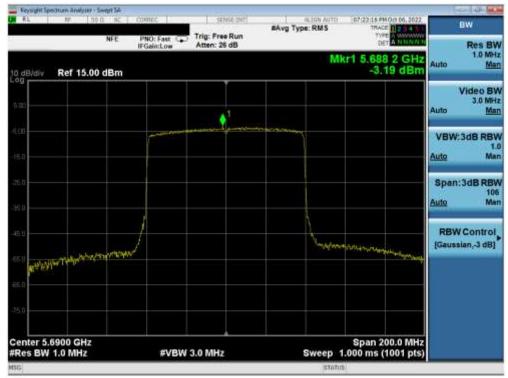
Plot 7-311. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 106)



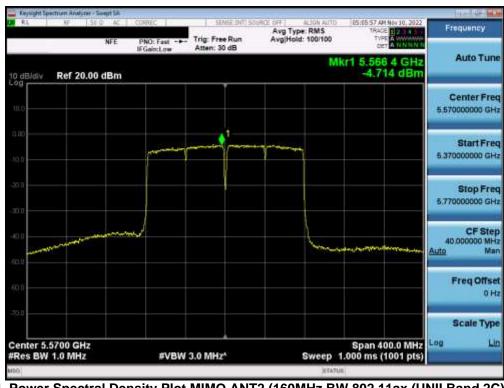
Plot 7-312. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 195 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 185 of 255
© 2023 ELEMENT			V9.0 02/01/2019





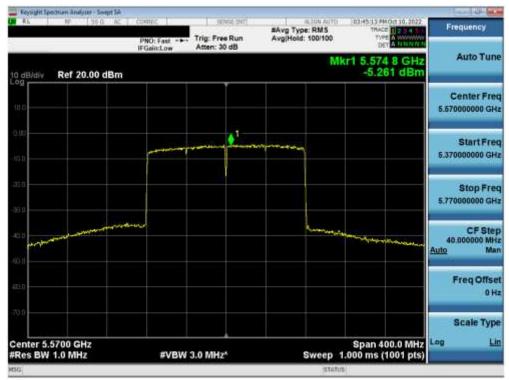
Plot 7-313. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 138)



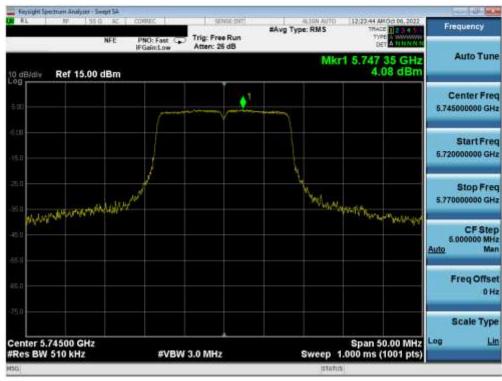
Plot 7-314. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band 2C) - Ch. 114)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 400 of 055
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 186 of 255
© 2023 ELEMENT	•		V9.0 02/01/2019





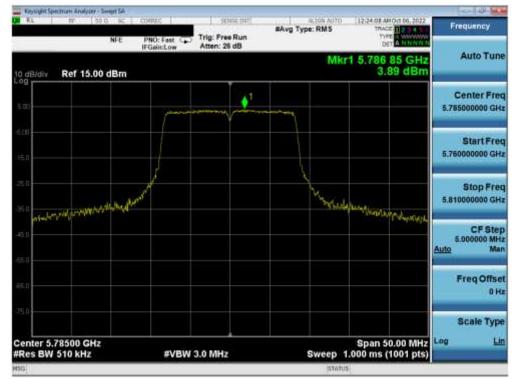
Plot 7-315. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band 2C) - Ch. 114)



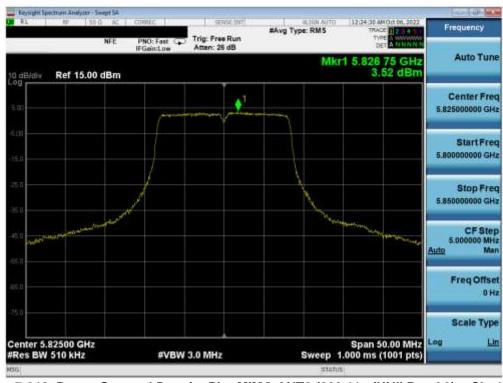
Plot 7-316. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 3) - Ch. 149)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 197 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 187 of 255
© 2023 ELEMENT	•		V9.0 02/01/2019





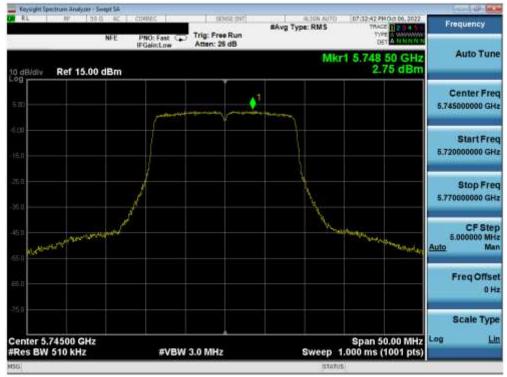
Plot 7-317. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 3) - Ch. 157)



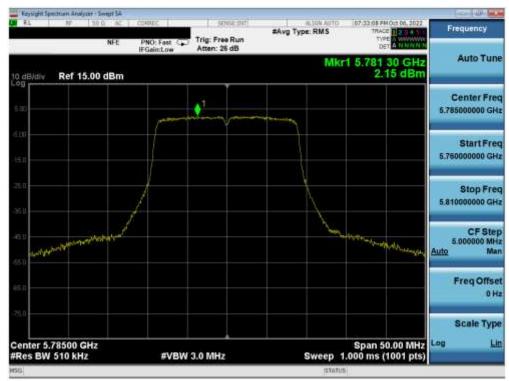
Plot 7-318. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 3) - Ch. 165)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 400 of 055
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 188 of 255
© 2023 ELEMENT	•		V9.0 02/01/2019





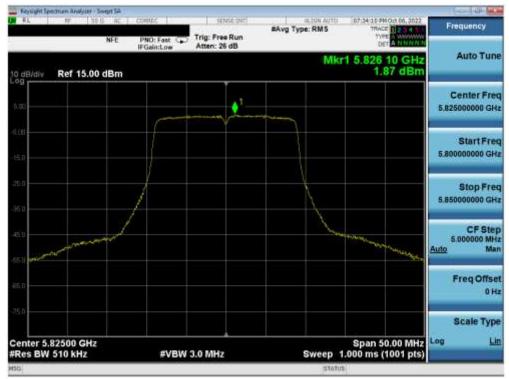
Plot 7-319. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 149)



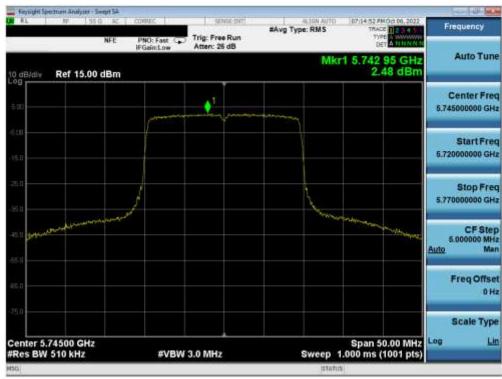
Plot 7-320. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 400 at 055
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 189 of 255
© 2023 ELEMENT	·		V9.0 02/01/2019





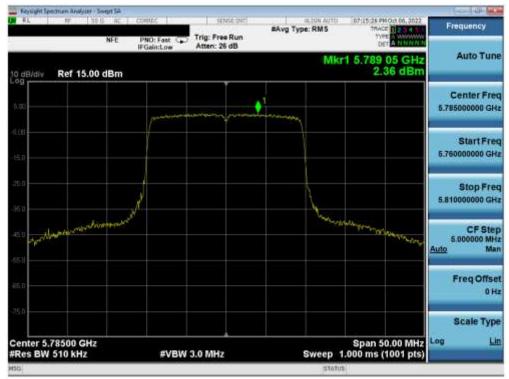
Plot 7-321. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 165)



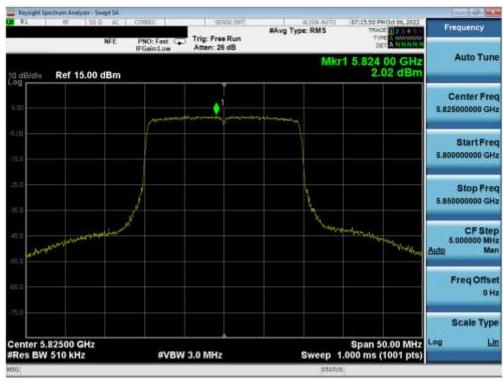
Plot 7-322. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 149)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 100 of DEE
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 190 of 255
© 2023 ELEMENT	•		V9.0 02/01/2019





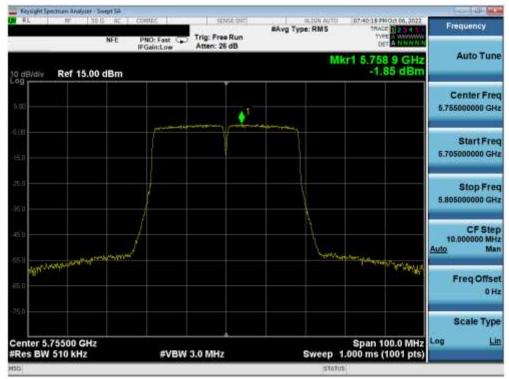
Plot 7-323. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)



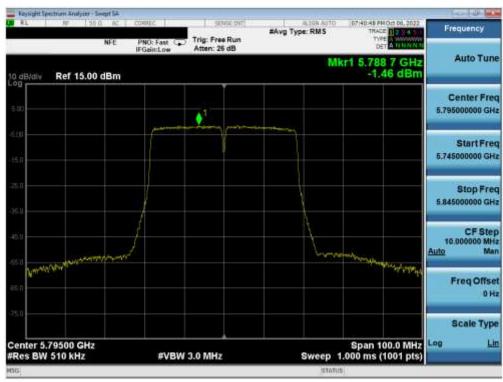
Plot 7-324. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 165)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 101 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 191 of 255
© 2023 ELEMENT	•		V9.0 02/01/2019





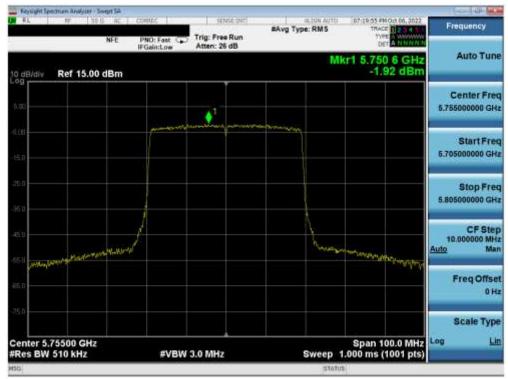
Plot 7-325. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)



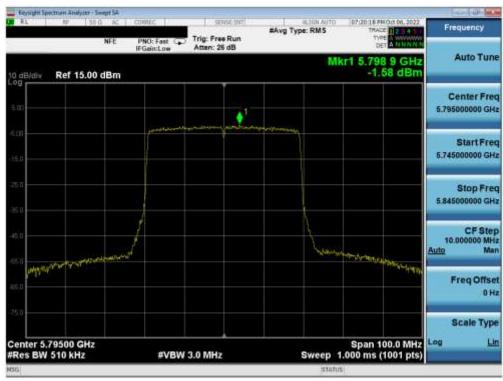
Plot 7-326. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3) - Ch. 159)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 102 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 192 of 255
© 2023 ELEMENT		·	V9.0 02/01/2019





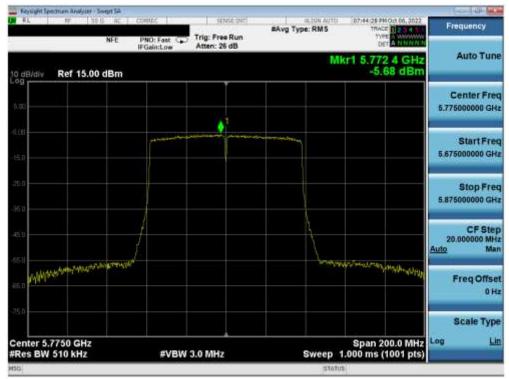
Plot 7-327. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)



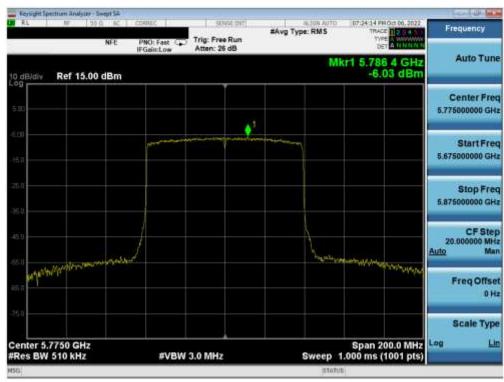
Plot 7-328. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3) - Ch. 159)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 102 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	Page 193 of 255
© 2023 ELEMENT	•		V9.0 02/01/2019





Plot 7-329. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)



Plot 7-330. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 194 of 255
1M2212080136-10-R1.A3L	09/02 - 11/23/2022	Portable Handset	
© 2023 ELEMENT		·	V9.0 02/01/2019