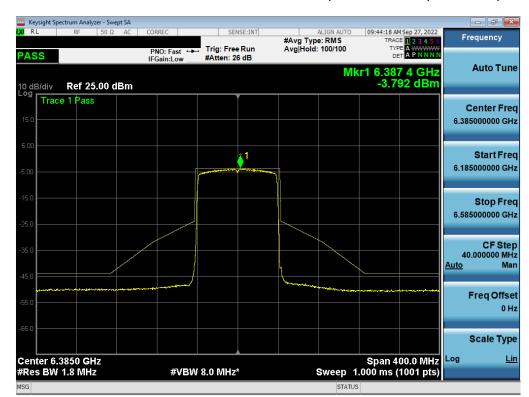


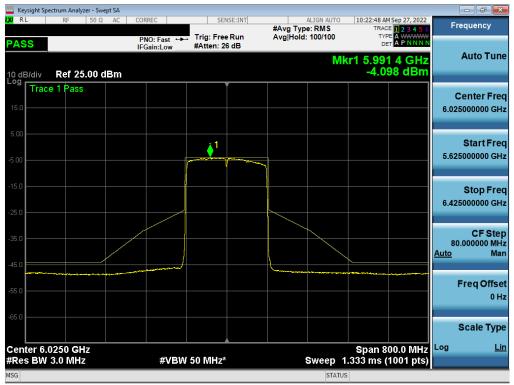
Plot 7-271. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 5) - Ch. 39)



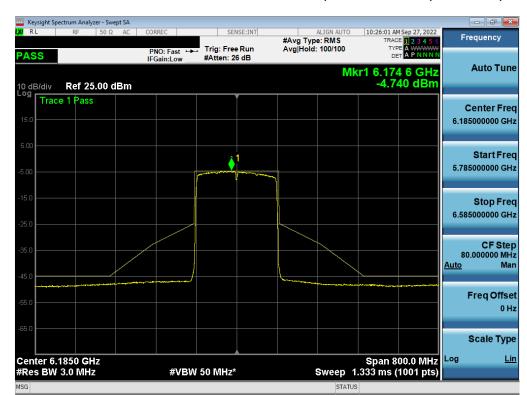
Plot 7-272. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 5) - Ch. 87)

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Plot 7-273. In-Band Emission Plot Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 5) - Ch. 15)



Plot 7-274. In-Band Emission Plot Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 5) - Ch. 47)

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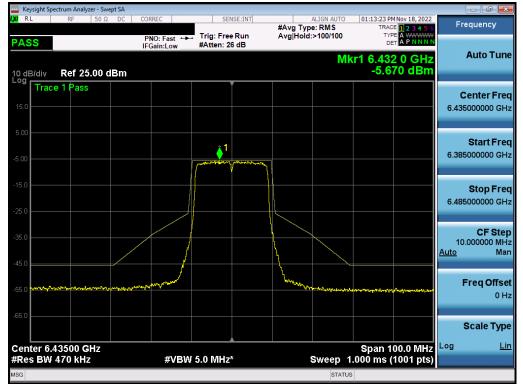


Plot 7-275. In-Band Emission Plot Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 5) - Ch. 79)

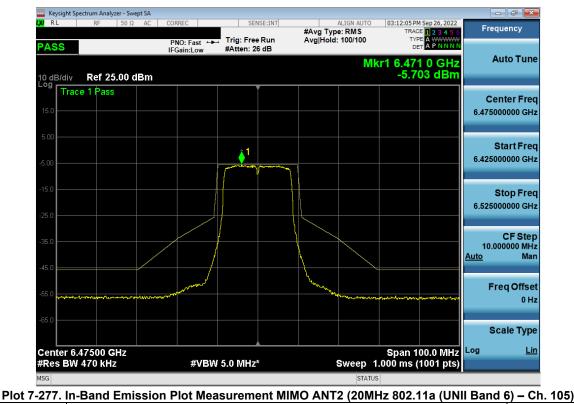
FCC: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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MIMO Antenna-2 In-Band Emission Plot Measurement - (UNII Band 6)



Plot 7-276. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 6) - Ch. 97)



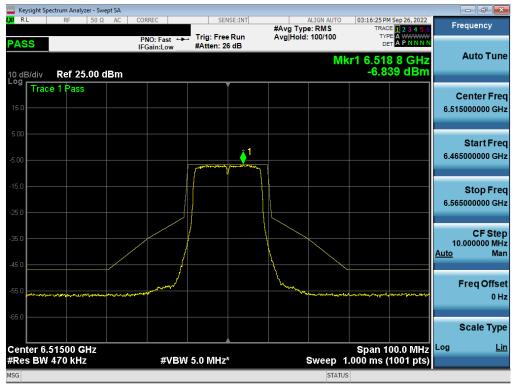
 FCC: A3LSMS911U
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 EUT Type:

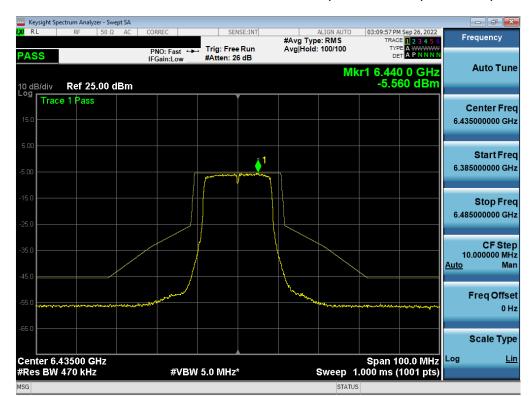
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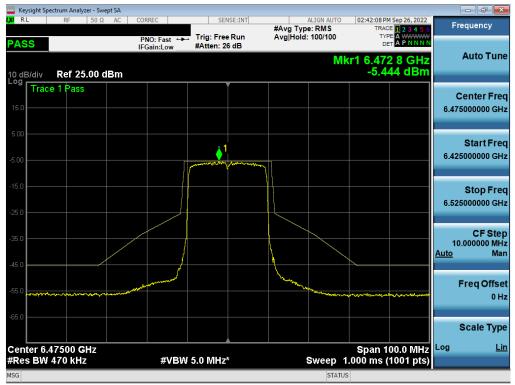
Plot 7-278. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 6) - Ch. 113)



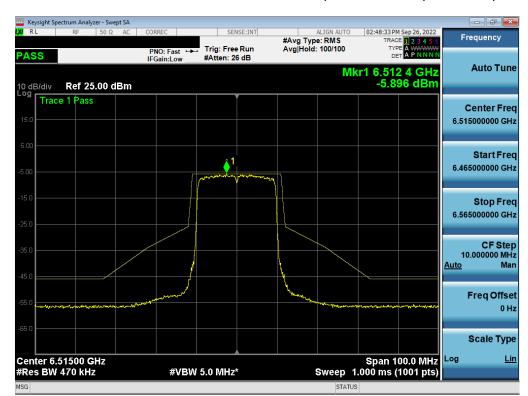
Plot 7-279. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 6) - Ch. 97)

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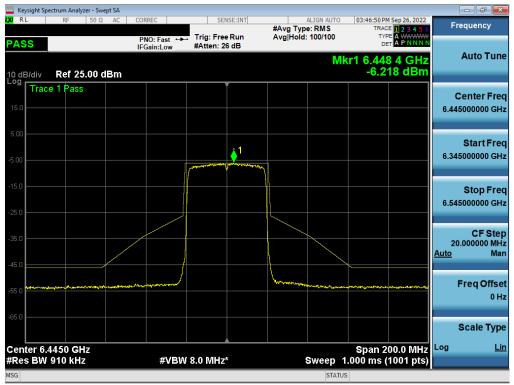
Plot 7-280. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 6) - Ch. 105)



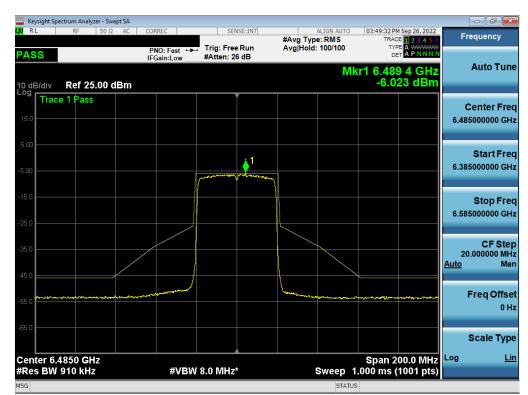
Plot 7-281. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 6) - Ch. 113)

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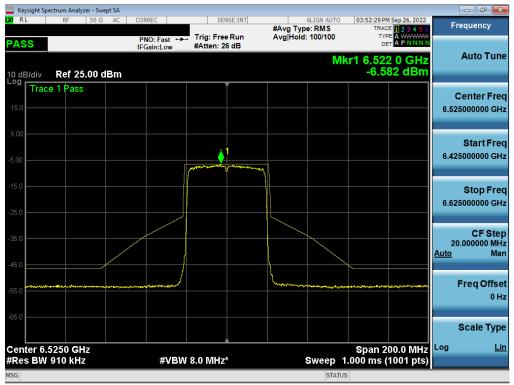
Plot 7-282. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 6) - Ch. 99)



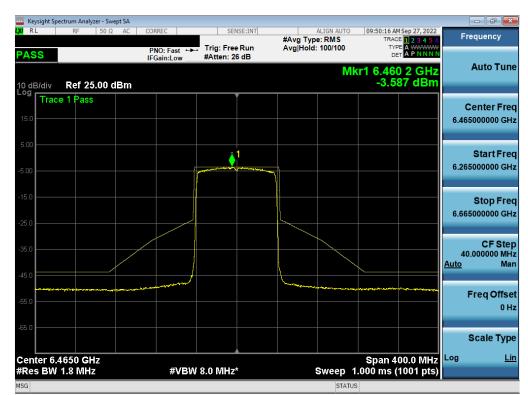
Plot 7-283. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 6) - Ch. 107)

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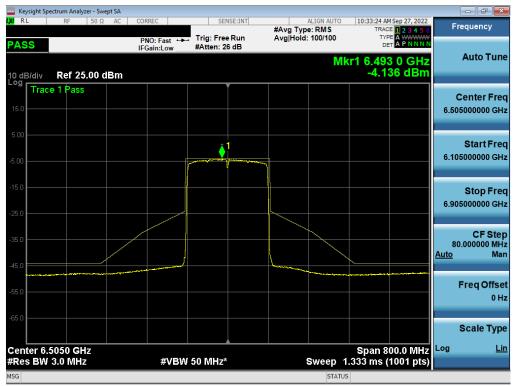
Plot 7-284. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 6) - Ch. 115)



Plot 7-285. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 6) - Ch. 103)

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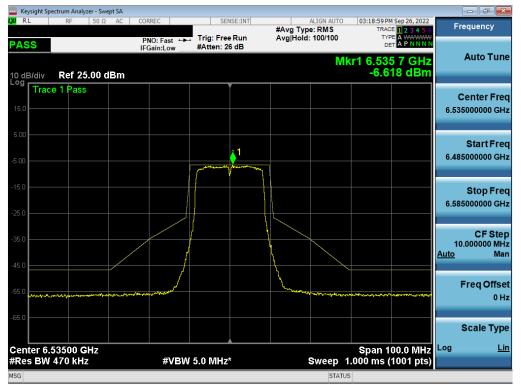


Plot 7-286. In-Band Emission Plot Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 6) - Ch. 111)

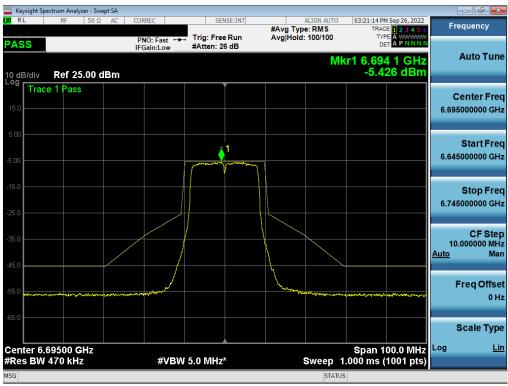
FCC: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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MIMO Antenna-2 In-Band Emission Plot Measurement - (UNII Band 7)



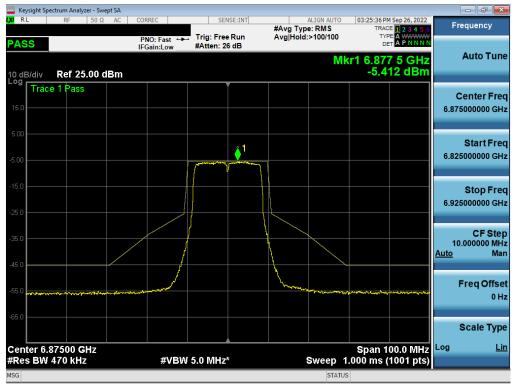
Plot 7-287. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 7) – Ch. 117)



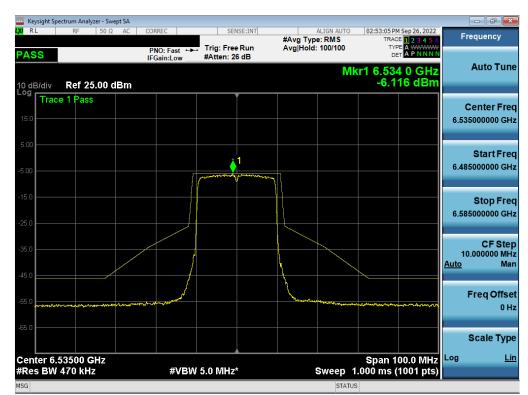
Plot 7-288. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 7) - Ch. 149)

FCC: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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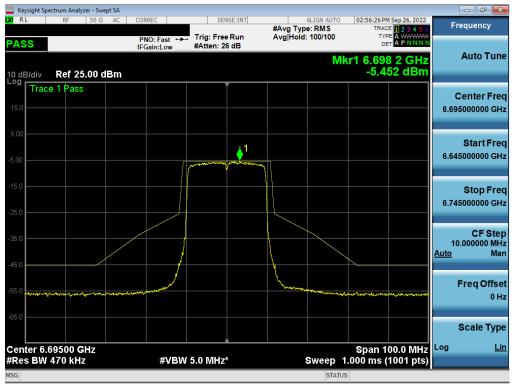
Plot 7-289. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 7) - Ch. 185)



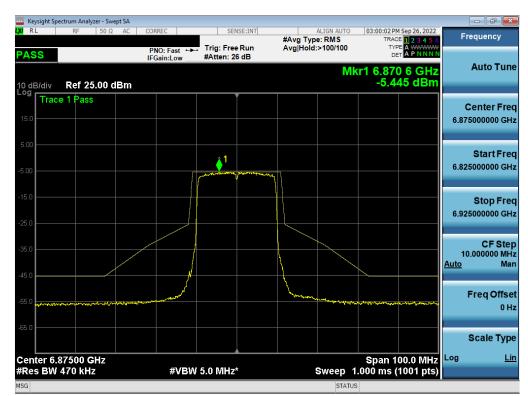
Plot 7-290. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 7) - Ch. 117)

FCC: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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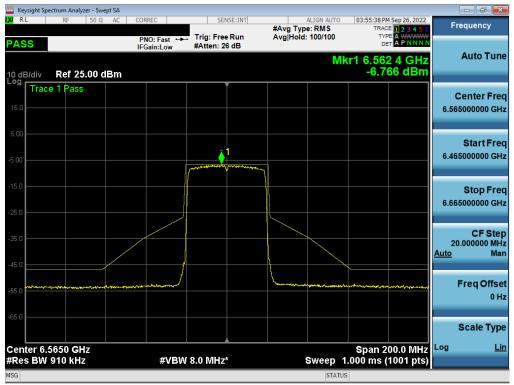
Plot 7-291. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 7) - Ch. 149)



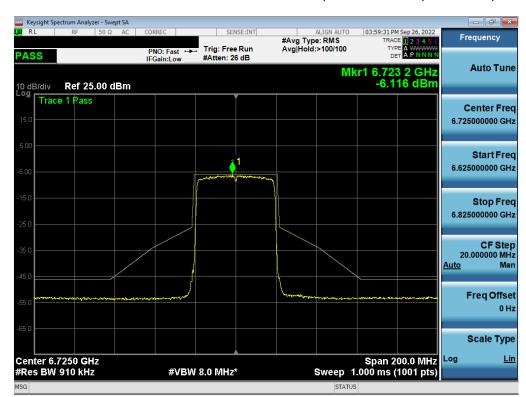
Plot 7-292. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 7) - Ch. 185)

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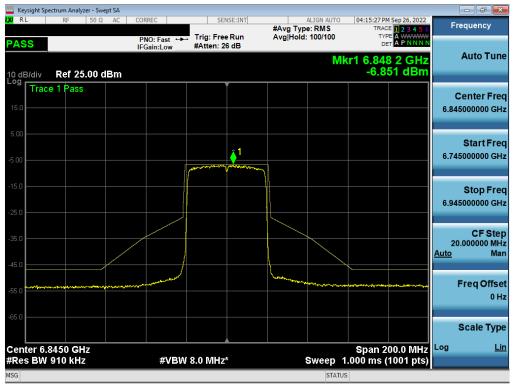
Plot 7-293. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 7) - Ch. 123)



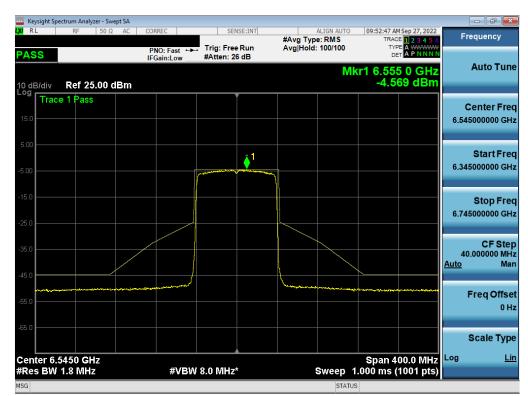
Plot 7-294. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 7) - Ch. 155)

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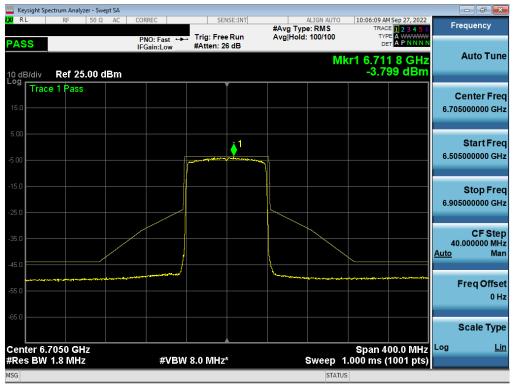
Plot 7-295. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 7) - Ch. 179)



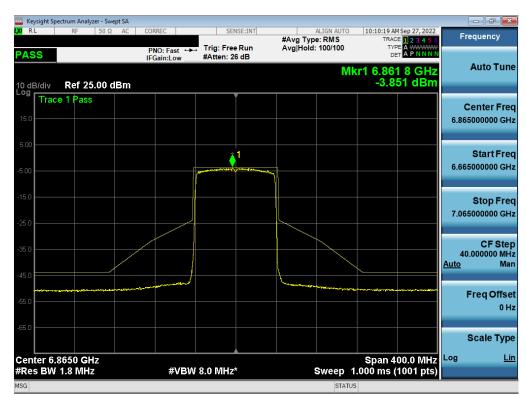
Plot 7-296. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 7) - Ch. 119)

FCC: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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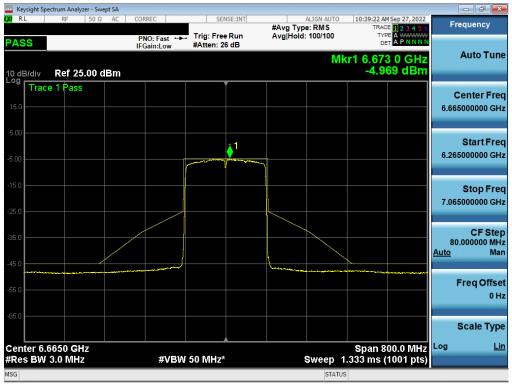
Plot 7-297. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 7) - Ch. 151)



Plot 7-298. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 7) - Ch. 183)

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Plot 7-299. In-Band Emission Plot Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 7) - Ch. 143)

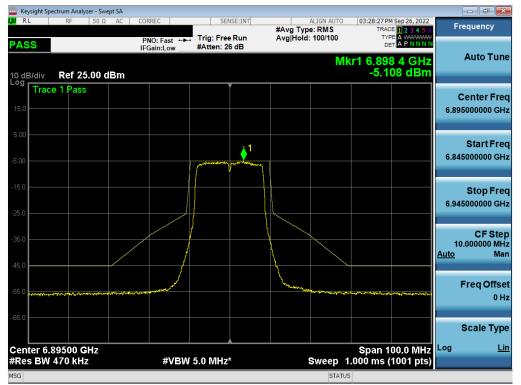


Plot 7-300. In-Band Emission Plot Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 7) – Ch. 175)

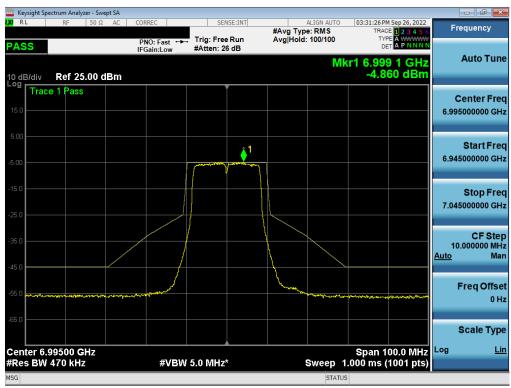
FCC: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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MIMO Antenna-2 In-Band Emission Plot Measurement - (UNII Band 8)



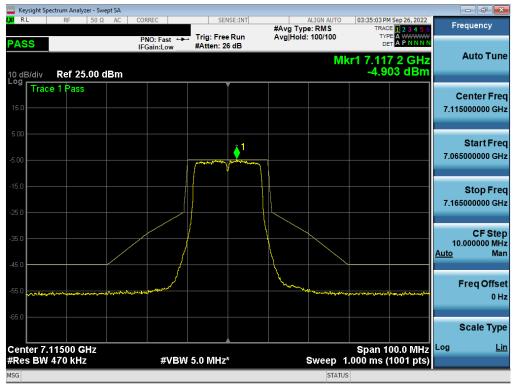
Plot 7-301. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 8) – Ch. 189)



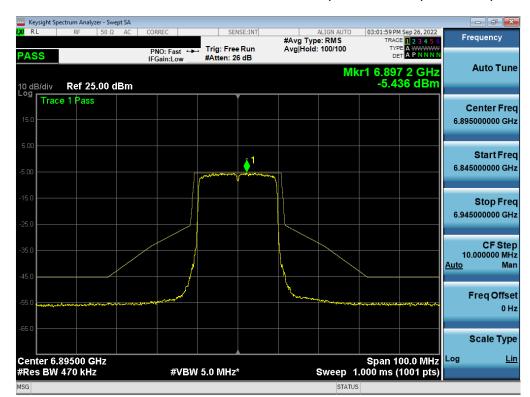
Plot 7-302. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 8) - Ch. 209)

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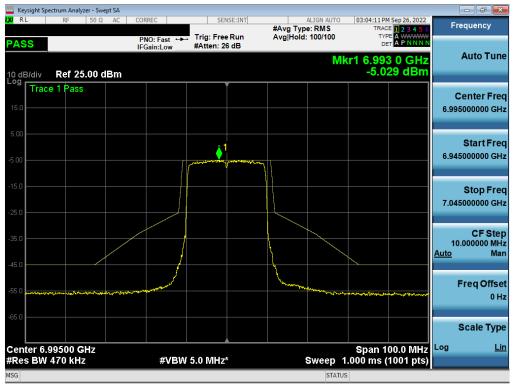
Plot 7-303. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 8) - Ch. 233)



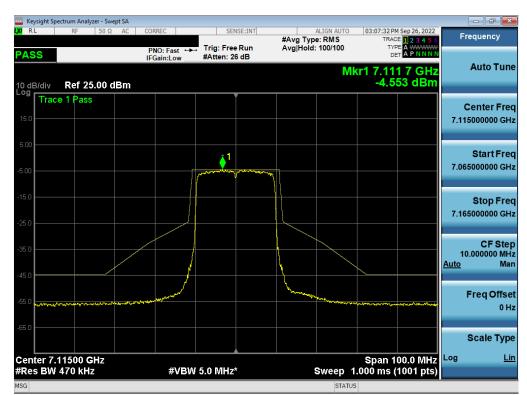
Plot 7-304. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 8) - Ch. 189)

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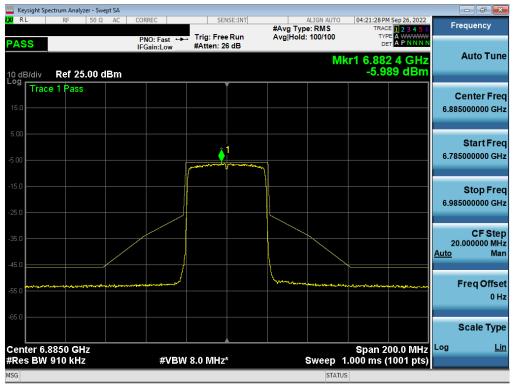
Plot 7-305. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 8) - Ch. 209)



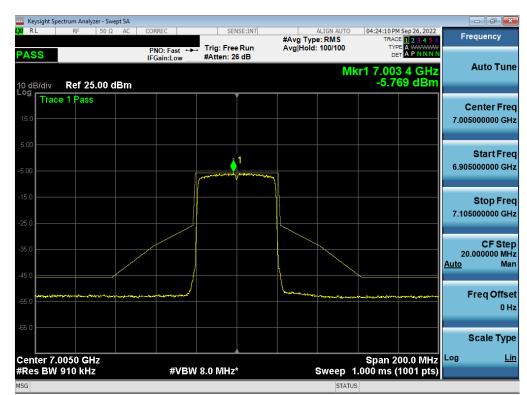
Plot 7-306. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 8) - Ch. 233)

FCC: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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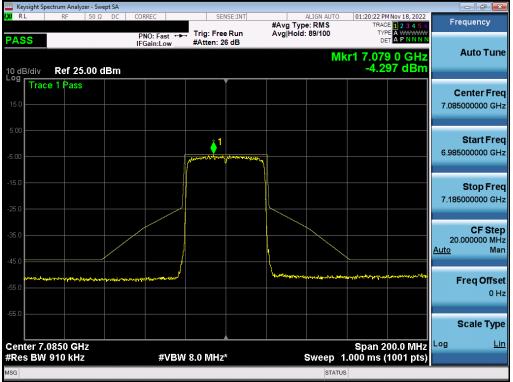
Plot 7-307. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 8) - Ch. 187)



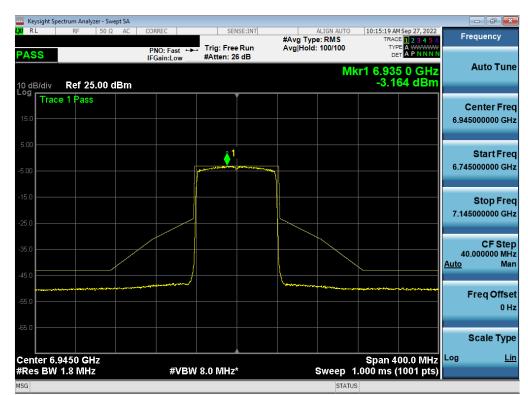
Plot 7-308. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 8) - Ch. 211)

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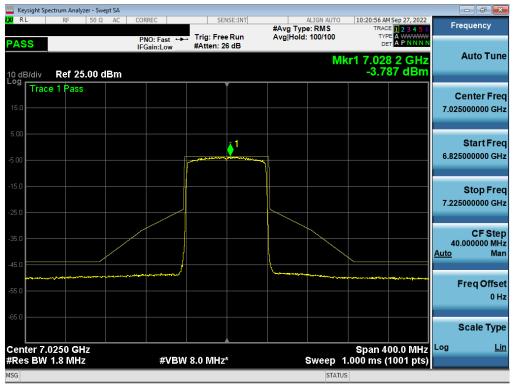
Plot 7-309. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 8) - Ch. 227)



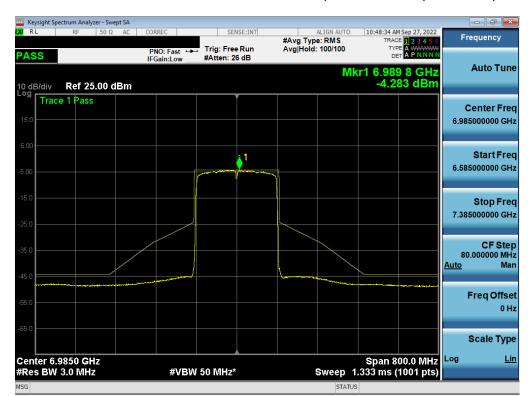
Plot 7-310. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 8) - Ch. 199)

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Plot 7-311. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 8) - Ch. 215)



Plot 7-312. In-Band Emission Plot Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 8) - Ch. 207)

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

Test Overview and Limit

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

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

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

Test Procedure Used

KDB 987594 D02 v01r01

Test Settings

1. Configure the EUT to transmit with a constant duty cycle.

2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.

3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.

4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.

5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.

6. S et the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.

7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.

8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.

9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.

10. Refer to Table 1 of KDB 987594 D02 v01r01 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

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Test Setup

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

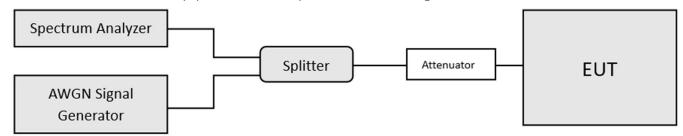


Figure 7-5. Contention-based protocol test setup, conducted method

Test Notes

- 1. Per guidance from KDB 987594 D02 v01r01, contention based protocol was tested using an AWGN signal with a bandwidth of 10MHz (see Plot 7-313). The amplitude of the signal was increased until detected by the EUT, signaled by the ceasing of transmission (see Plot 7-329), M1 indicates the point at which the AWGN signal is introduced. D1 indicates where the AWGN signal is terminated, at least 10 seconds following M1.
- 2. 15 trials were ran in order to assure that at least 90% of certainty was met.
- 3. Per Guidance from KDB 987594 D04 v01, contention based protocol was tested with receiver with the lowest antenna gain.
- 4. All CBP Timing Plots shown are for the ceased condition. Some spikes that may be shown are from adjacent portions of the spectrum that are still transmiting.

Detection Level = Injected AWGN Power (dBm) – Antenna Gain (dBi) + Path Loss (dB)

Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	Injected (AWGN) [dBm]	Antenna Gain [dBi]	Adjusted Power Level [dBm]	Detection Limit [dBm]	Margin [dB]
	53	6215	20	6215	-73.48	-7.62	-65.86	-62.0	-3.86
UNII				6110	-70.69	-7.62	-63.07	-62.0	-1.07
Band 5	47	6185	160	6185	-70.06	-7.62	-62.44	-62.0	-0.44
				6260	-74.85	-7.62	-67.23	-62.0	-5.23
	101	6455	20	6455	-81.92	-4.98	-76.94	-62.0	-14.94
UNII				6430	-73.98	-4.98	-69.00	-62.0	-7.00
Band 6	111	6505	160	6505	-69.72	-4.98	-64.74	-62.0	-2.74
				6580	-74.02	-4.98	-69.04	-62.0	-7.04
	149	6695	20	6695	-80.18	-7.18	-73.00	-62.0	-11.00
UNII				6750	-73.48	-7.18	-66.30	-62.0	-4.30
Band 7	175	6825	160	6825	-69.52	-7.18	-62.34	-62.0	-0.34
				6900	-72.37	-7.18	-65.19	-62.0	-3.19
	197	6935	20	6935	-79.01	-7.35	-71.66	-62.0	-9.66
UNII				6910	-70.49	-7.35	-63.14	-62.0	-1.14
Band 8	207	6985	160	6985	-70.87	-7.35	-63.52	-62.0	-1.52
				7060	-72.16	-7.35	-64.81	-62.0	-2.81

Equation 7-1. Detection Level Calculation

Table 7-8. Contention Based Protocol – Incumbent Detection Results

FCC: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 400 of 000
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						EUT T	ransmission S	itatus		
		Channel	Channel BW	Incumbont	Antenna	Adjuste	d AWGN Powe	er (dBm)	Detection	Margin
Band	Channel	Freq [MHz]	[MHz]	Incumbent Freq [MHz]	Gain [dBi]	Normal	Minimal	Ceased	Limit [dBm]	Margin [dB]
	53	6215	20	6215	-7.62	-68.66	-66.66	-65.86	-62.0	-3.86
UNII				6110	-7.62	-68.57	-66.57	-63.07	-62.0	-1.07
Band 5	47	6185	160	6185	-7.62	-62.84	-62.54	-62.44	-62.0	-0.44
				6260	-7.62	-67.83	-67.43	-67.23	-62.0	-5.23
	101	6455	20	6455	-4.98	-82.64	-80.64	-76.94	-62.0	-14.94
UNII				6430	-4.98	-70.30	-69.30	-69.00	-62.0	-7.00
Band 6	111	6505	160	6505	-4.98	-67.64	-65.64	-64.74	-62.0	-2.74
				6580	-4.98	-70.54	-69.54	-69.04	-62.0	-7.04
	149	6695	20	6695	-7.18	-82.40	-80.40	-73.00	-62.0	-11.00
UNII				6750	-7.18	-70.70	-66.70	-66.30	-62.0	-4.30
Band 7	175	6825	160	6825	-7.18	-62.94	-62.74	-62.34	-62.0	-0.34
				6900	-7.18	-69.69	-67.69	-65.19	-62.0	-3.19
	197	6935	20	6935	-7.35	-75.66	-74.66	-71.66	-62.0	-9.66
UNII				6910	-7.35	-68.44	-66.44	-63.14	-62.0	-1.14
Band 8	207	6985	160	6985	-7.35	-64.12	-63.62	-63.52	-62.0	-1.52
				7060	-7.35	-68.41	-67.41	-64.81	-62.0	-2.81

 Table 7-9. Contention Based Protocol – Detection Results – All Tx Cases

	CBP Detection (1 = Detection, Blank = No Detection)																			
Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Detection Rate (%)
	53	6215	20	6215	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
UNII				6110	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
Band 5	47	6185	160	6185	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				6260	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
	101	6455	20	6455	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
UNII				6430	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
Band 6	111	6505	160	6505	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				6580	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
	149	6695	20	6695	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
UNII				6750	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
Band 7	175	6825	160	6825	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				6900	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
	197	6935	20	6935	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
UNII				6910	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
Band 8	207	6985	160	6985	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				7060	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100

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

FCC: A3LSMS911U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 100 of 220
1M2209010096-15.A3L	9/3/2022 - 11/22/2022	Portable Handset	Page 190 of 239
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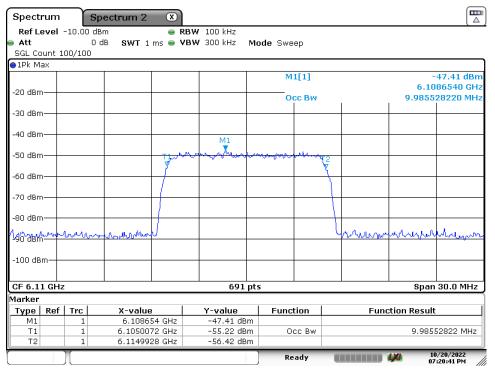


AWGN Plots

Spect	rum											
🛛 Att		-10.00 00/100		-	BW 100 kHz /BW 300 kHz	Mod	le Swe	ер				
o1Pk M												
-20 dBn							M	1[1]				49.68 dBm 72140 GHz
20 000							0	cc Bw			9.9855	28220 MHz
-30 dBn	n											
-40 dBn	n						641					
-50 dBn	n			TJack	hand	nn	М1 <u>Ма</u> рии	server	- <u>2</u>			
-60 dBn	n			-					+			
-70 dBn	n								+			
-80 dBn	n								\rightarrow			
-90 den	h	Milar	Manger	nJ					1	hardharr	whorm	mehan
-100 de	m_											
CF 6.2	15 GF	iz			691	pts					Span	30.0 MHz
Marker Type	Ref	Trc	X-value	.	Y-value	1	Fund	tion		Func	tion Result	1
M1		1	6.2172		-49.68 dE							
T1 T2		1	6.21000 6.21999		-53.89 dE -53.94 dE		0	cc Bw			9.985	52822 MHz
							Re	ady)/20/2022 :32:04 PM

Date: 20.0CT.2022 18:32:03

Plot 7-313. AWGN Signal – UNII 5 – 20MHz



Date: 20.0CT.2022 19:20:41

Plot 7-314. AWGN Signal - UNII 5 - 160MHz - Low

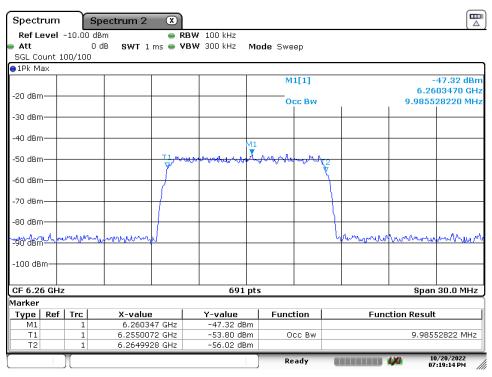
FCC: A3LSMS911U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 404 af 020
1M2209010096-15.A3L	9/3/2022 - 11/22/2022	Portable Handset	Page 191 of 239
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Spect	rum		Spectrum 2	X)								
Ref L	evel	-10.00	dBm	•	RBW 10)0 kHz							
🗕 Att		(dB SWT 1	ms 👄 🞙	VBW 30)0 kHz	Mode	Swe	ер				
SGL Co	ount 1	100/100											
😑 1Pk M	ах												
								M	1[1]				45.82 dBm
-20 dBn	n												75620 GHz
20 401	.							0	cc Bw			9.9855	28220 MHz
-30 dBn	n—												
-40 dBn	n—							MI					
-50 dBn	n			T I A	And a	᠆ᢍᡗᢦᡀᢦᠿ	an	weyler	ل ^{مر} مر الم	<u>[2</u>			
				17						Ϋ́			
-60 dBn	n												
-70 dBn	.												
-70 UBN	" <u> </u>												
-80 dBn	n—			1						\rightarrow			
		N								- {	at the sec		
<u>u</u> 90 dBn	prop	<u>hran</u>	monthal							٩	wwww	moundary	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
-100 dB	™+												
CF 6.1	85 GI	Ηz		1	I	691	pts				1	Span	30.0 MHz
Marker							•						
Type	Ref	Trc	X-value	e	Y-	value	1	Func	tion		Fund	tion Result	1
M1		1	6.1875			45.82 di							
T1		1	6.18005	07 GHz		54.27 di		0	cc Bw			9.985!	52822 MHz
T2		1	6.19003	62 GHz	-	55.12 di	3m]
)[Re	ady			10 07	/20/2022 :19:52 PM

Date: 20.0CT.2022 19:19:52

Plot 7-315. AWGN Signal – UNII 5 – 160MHz - Mid



Date: 20.0CT.2022 19:19:13

Plot 7-316. AWGN Signal – UNII 5 – 160MHz - High

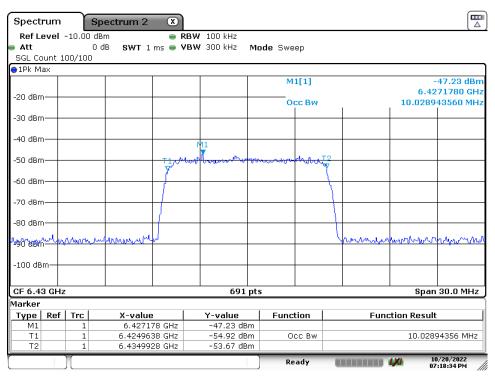
FCC: A3LSMS911U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 102 of 220
1M2209010096-15.A3L	9/3/2022 - 11/22/2022	Portable Handset	Page 192 of 239
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Spect	rum	\neg	Spec	trum 2	2 (X									
Ref L	evel	-10.00	dBm			e RB	W 100 k	Hz							
🗕 Att			0 dB	SWT	1 ms	e ve	W 300 k	Hz N	/lode	Swe	ер				
SGL Co	ount 1	.00/100	1								-				
😑 1Pk M	ax														
										- M	1[1]				-48.81 dBm
-20 dBn	n														581260 GHz
20 001										00	C Bw			9.9855	28220 MHz
-30 dBn	n——						_								
-40 dBn	n														
										N	1				
-50 dBn	n				Ţ	<u>₽~~</u> ~~	ᡥᢦᢨᢦᢦᢦᢦᠯ	ww.h u	698-12	ᠣ᠕ᡰᠣᡐ	holmort i	F2			
					7	P						٦.			
-60 dBn	n				1							\uparrow			
-70 dBn															
-70 UBI															
-80 dBn	n											1			
					11							- 1			
-go déh	phone	mon	Mar	www	ny _		_						Muran	Jubrown	Mannow
-100 dB	sm—														
CF 6.4	55 GF	Ηz						691 p	ts					Span	30.0 MHz
Marker								P	-					-24	
Type	Ref	Trc		X-val	ue		Y-val	ue	I F	unc	ion		Fun	ction Result	: I
M1		1			3126 G	Hz		81 dBm	_				1 411		
T1		1		6.4500	072 G	Hz	-54.	54 dBm	1	0	c Bw			9.985	52822 MHz
Т2		1		6.4599	928 G	Hz	-53.	76 dBm	1						
)[Re	ady				0/20/2022 5:41:40 PM

Date: 20.0CT.2022 18:41:40

Plot 7-317. AWGN Signal – UNII 6 – 20MHz



Date: 20.0CT.2022 19:18:34

Plot 7-318. AWGN Signal – UNII 6 – 160MHz - Low

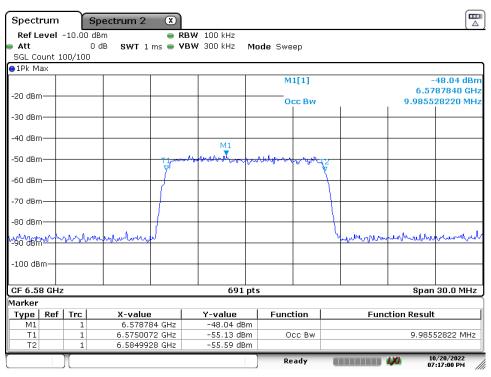
FCC: A3LSMS911U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 102 of 220
1M2209010096-15.A3L	9/3/2022 - 11/22/2022	Portable Handset	Page 193 of 239
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Spect	rum	÷	Spectrum 2 👘	X								
Ref L	evel	-10.00	dBm	🖷 RBW	' 100 kHz							
🗕 Att		(dB SWT 1 ms	👄 VBW	/ 300 kHz	Мо	de Swe	ер				
SGL Co	ount 1	.00/100										
😑 1Pk M	ax											
							M	1[1]			-	47.62 dBm
-20 dBm												91240 GHz
20 001	·						00	cc Bw			10.0289	43560 MHz
-30 dBrr	n——											
-40 dBm	n——					-						
								M1				
-50 dBm	1		т	مرين ويد المريم المريم. المرين المريم الم	العميد العصيك المعالية		᠆ᢣᡌᡭᢦᡐᡐᡇ		12 17			
) j	F					٦			
-60 dBrr	۱ <u> </u>											
70 - 10									١.			
-70 dBm												
-80 dBm												
									- 1			
-96 abn	1 Mary	pholog	monum						1	Montan	marin	hours
-100 dB	-m-					-						
CF 6.5	05 GF	17			691	nts					Snan	30.0 MHz
Marker	00 01				0,51	pes	, 				opun	0010 11112
Type	Ref	Trc	X-value	1	Y-value		Funct	tion		Euno	tion Result	
M1		1	6.509124 G	Hz	-47.62 dB	m	. unc			- T une	alon Result	
T1		1	6.4999638 G		-56.60 dB		0	C BW			10.028	94356 MHz
T2		1	6.5099928 G	iHz	-53.43 dB	m						
][Re	ady)/20/2022 :17:39 PM

Date: 20.0CT.2022 19:17:39

Plot 7-319. AWGN Signal – UNII 6 – 160MHz - Mid



Date: 20.0CT.2022 19:17:00

Plot 7-320. AWGN Signal – UNII 6 – 160MHz - High

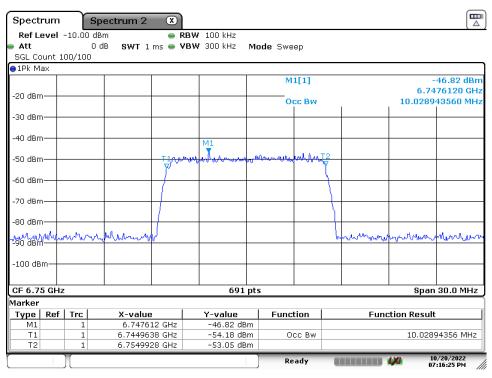
FCC: A3LSMS911U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 104 of 220
1M2209010096-15.A3L	9/3/2022 - 11/22/2022	Portable Handset	Page 194 of 239
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Spect	rum	\neg	Spectrum 2	×								
Ref L	evel	-10.00	dBm	😑 F	RBW 100 kHz							
🗕 Att			0 dB SWT 1	ms 👄	/BW 300 kHz	Мо	ode Swe	ер				
SGL Co	ount 1	100/100						-				
😑 1Pk M	ax											
							M	1[1]				47.35 dBm
-20 dBn	n											52600 GHz
20 001	"						0	cc Bw			10.0289	43560 MHz
-30 dBn	n——											
-40 dBn	n											
						M1						
-50 dBn	n			TIM	man warder	+Jor	᠆᠆᠆᠆᠆᠆	hered.	12			
				7					۳			
-60 dBn	n			ľ					1			
70 40-												
-70 dBn	n											
-80 dBn	n											
				11					- {			. 1. m.t
-90 dBn	my	www	majortural	N					U	www	mound	part when
-100 dB	3m-					-						
CF 6.6	95 GF	17			691	nte	5				Snan	30.0 MHz
Marker	50 GI				0,51	pt.	,				opan	
Type	Ref	Trc	X-value	. I	Y-value		Func	tion		Euni	tion Result	· 1
M1		1		26 GHz	-47.35 dE	3m						
T1		1	6.68996		-56.58 dB	3m	0	cc Bw			10.028	94356 MHz
Т2		1	6.69999	28 GHz	-54.39 dE	3m						
)[Re	ady				0/20/2022 :42:22 PM

Date: 20.0CT.2022 18:42:21

Plot 7-321. AWGN Signal – UNII 7 – 20MHz



Date: 20.0CT.2022 19:16:25

Plot 7-322. AWGN Signal – UNII 7 – 160MHz - Low

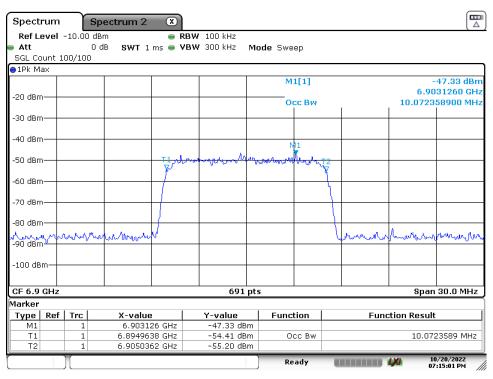
FCC: A3LSMS911U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 105 of 220
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Spect	rum	\neg	Spectrum 2	X								
Ref L	evel	-10.00	dBm	e F	RBW 100 kHz							
🗕 Att			0 dB SWT 1	ms 👄 🎙	VBW 300 kHz	Мо	de Swe	ер				
SGL Co	ount	100/100						-				
😑 1Pk M	lax											
							M	1[1]			-	45.76 dBm
-20 dBn											6.82	56950 GHz
-20 ubn	"						0	cc Bw			10.0289	43560 MHz
-30 dBn	n—											
-40 dBn	n—					M	1					
						Ţ	ŧ.					
-50 dBn	n—			ТцА	ᡣᠼᠣᡃᢎᢢᢒᢦᢑᢣᢁᡔ᠖ᡃᠯᠰ᠋ᢅ	har	لقيهدر فمرالها	لممطيرهن	72-			
				7	, i i i i i i i i i i i i i i i i i i i				۲.			
-60 dBn	n—								+			
									1			
-70 dBn	n—								\uparrow			
-80 dBn	_								- 1			
			~	1								
-90 dBn	2ml	Mar	www.	ц Ц					k	many	monde	munda
50 abii												
-100 dB	3m-+											
CF 6.8	25.0				691		_					30.0 MHz
Marker		HΖ			091	prs	•				span	30.0 MHZ
		Trc	X-value		Y-value	- 1	Func	tion		Fue	tion Result	
Type M1	Ref	1	6,8256		-45.76 dE	m	Func	uun		Fund	LION RESULT	
T1		1	6.82000		-43.70 dB		0	cc Bw			10.0289	94356 MHz
T2		1	6.83003		-54.89 dE							
		1					De	ady	-			/20/2022
L		Л				IJ	ке	auy				:15:41 PM

Date: 20.0CT.2022 19:15:40

Plot 7-323. AWGN Signal – UNII 7 – 160MHz - Mid



Date: 20.0CT.2022 19:15:01

Plot 7-324. AWGN Signal – UNII 7 – 160MHz - High

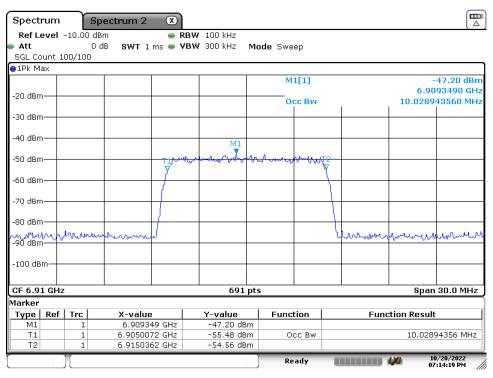
FCC: A3LSMS911U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 106 of 220
1M2209010096-15.A3L	9/3/2022 - 11/22/2022	Portable Handset	Page 196 of 239
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Spect	rum	s	pectrum 2	×								
Ref L	evel	-10.00 d	Bm	- F	RBW 100 kHz							
👄 Att		0	dB SWT 1	ms 👄 🎙	/BW 300 kHz	: Mo	ode Swe	ер				
		100/100										
😑 1Pk M	ах											
							M	1[1]				48.25 dBm
-20 dBn	n —											65200 GHz
20 000							0	cc Bw			10.0723	58900 MHz
-30 dBn	n—											
-40 dBn	n		_			_						
							M1					
-50 dBn	n			11M	mather	and the	where	preserve a	T 2			
				7					¥ -			
-60 dBn	n—					_			+			
-70 dBn	n					-			+			
									- \			
-80 dBn	n					-			1		_	
mul	ma	www.w	Willowwww	v.					ι	mound	mound	Mouthwelm
-90 UBI												
-100 dB												
-100 at												
CF 6.9	35 G	Hz			6	91 pt:	5				Span	30.0 MHz
Marker												
Туре	Ref		X-value		Y-valu		Func	tion		Fund	tion Result	
M1		1		52 GHz	-48.25		-	_				
T1		1	6.929963		-55.83		0	cc Bw			10.072	23589 MHz
T2		1	6.940036	52 GHZ	-56.74	uвт						
[Л					Re	ady				/20/2022 :46:35 PM

Date: 20.0CT.2022 18:46:35

Plot 7-325. AWGN Signal – UNII 8 – 20MHz



Date: 20.0CT.2022 19:14:18

Plot 7-326. AWGN Signal – UNII 8 – 160MHz - Low

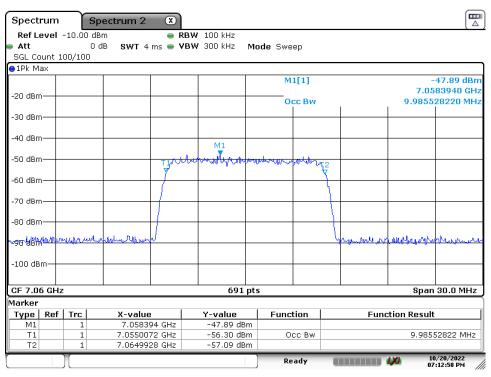
FCC: A3LSMS911U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 107 of 220
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Spect	rum	Sp	bectrum 2	X	1							
Ref L	evel	-10.00 dB	3m	•	RBW 100 kHz							
👄 Att		0	dB SWT 1	ms 😑 🎙	VBW 300 kHz	Mc	ode Swe	ер				
		100/100										
😑 1Pk M	ах											
							M	1[1]				47.68 dBm
-20 dBn	n — —											91240 GHz
							0	cc Bw			10.0289	43560 MHz
-30 dBn	n					+						
-40 dBn	n		-			+		M1				
-50 dBn	n			- Poor	har all a har and the	4pm	magare and	why have	2			
				Υ					٩			
-60 dBn	n			1		1			1			
-70 dBn	.								1			
-70 GBH												
-80 dBn	n			1		—			\rightarrow			
		in the a		J					ւ	and ded rate	andre here	un while
-90 dBn	0	www.you	mpur m	0		-				Marcoll 200	~ 0.0.000 000	he dans along
-100 dB	m+					+						
CF 6.9	85 GI	Hz			691	l pts	5				Span	30.0 MHz
Marker						<u> </u>					· · ·	
Type	Ref	Trc	X-value		Y-value		Func	tion		Fund	tion Result	. 1
M1		1	6.98912		-47.68 d	8m						
T1		1	6.980007	72 GHz	-55.51 d		0	cc Bw			10.028	94356 MHz
T2		1	6.990036	52 GHz	-55.92 d	Вm						
][Re	ady				0/20/2022 1:13:37 PM

Date: 20.0CT.2022 19:13:37

Plot 7-327. AWGN Signal – UNII 8 – 160MHz - Mid



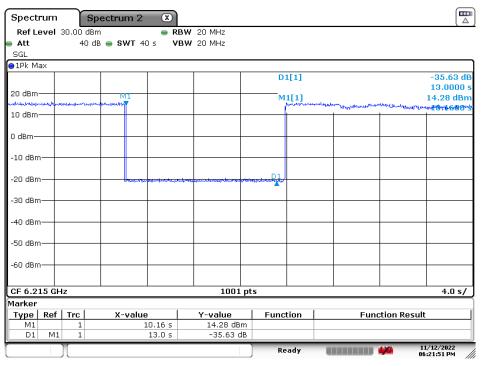
Date: 20.0CT.2022 19:12:58

Plot 7-328. AWGN Signal – UNII 8 – 160MHz - High

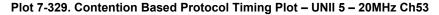
FCC: A3LSMS911U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 400 of 000
1M2209010096-15.A3L	9/3/2022 - 11/22/2022	Portable Handset	Page 198 of 239
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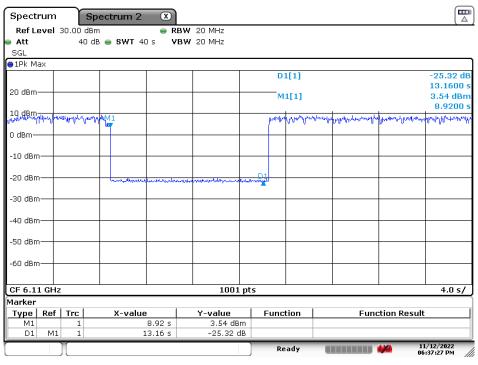


CBP Timing Plots



Date: 12.NOV.2022 18:21:51





Date: 12.NOV.2022 18:37:27

Plot 7-330. Contention Based Protocol Timing Plot - UNII 5 - 160MHz Ch47 - Low

FCC: A3LSMS911U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 400 af 000
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Spect	rum	S	pectrum 2	X								
Ref L	evel	30.00 dB	m	😑 R	BW 20 MHz							
🗕 Att		40 c	IB 👄 SWT 40)s V	BW 20 MHz							
SGL												
😑 1Pk M	ax											
							D	l[1]				-29.81 dB
00 40												14.6800 s
20 dBm							M	1[1]				8.28 dBm
10 dBm			M1									11.4000 s
LO UBIII	mulling	all material	mondementer						2	worder marked and a	وسايلة بريسانية والمراد	. In marine way
0 dBm—									_			
-10 dBm	1								+			
								D1				
-20 dBm	ר ר		week.	umanaha	and a strate and a s	under the	algoodd bogletoo allanda a	renteringen	9			
-30 dBm												
-40 dBm	1											
-50 dBm	– ו											
-60 dBm												
CF 6.1	85 Ġ⊢	lz			10	001 pt:	s			•		4.0 s/
Marker												
Туре	Ref	Trc	X-value		Y-valu		Func	tion		Fund	tion Result	t
M1		1		11.4 s		dBm						
D1	M1	1	1	4.68 s	-29.8	31 dB						
)[]					Re	ady	1			1/12/2022 5:33:44 PM

Date: 12.NOV.2022 18:33:44



Spect	rum	s	pectrum 2	X								
Ref Lo Att SGL	evel	30.00 dB 40 c	m 18 e SWT 40	-	3W 20 MHz BW 20 MHz							
●1Pk M	ах											
20 dBm								l[1] 1[1]				-26.89 dB 14.0800 s 5.08 dBm 11.8000 s
10 dBm			M.								- reference of the second second second second	and and the factor
0 dBm-	120400-000	wheeler and				-			program	an han de la caracteria de	ավեկությունը գրտենի էն Դենսանությունը հետաներությունը հետաներությունը հետաներությունը հետաներությունը հետաներությունը հետաներությունը հ	en an
-10 dBn	n					11						
-20 dBm	n				halpertraddealad	hilli	Haddala	the state				
-30 dBm	n											
-40 dBm	n											
-50 dBm	n											
-60 dBr	n											
CF 6.2	6 GHz				100	1 pt:	s			1	1	4.0 s/
Marker												
Туре	Ref	Trc	X-value		Y-value		Func	tion		Fund	ction Result	
M1 D1	M1	1		11.8 s 4.08 s	5.08 d -26.89							
							Re	ady				L/12/2022 :40:29 PM

Date: 12.NOV.2022 18:40:28

Plot 7-332. Contention Based Protocol Timing Plot – UNII 5 – 160MHz Ch47 - High

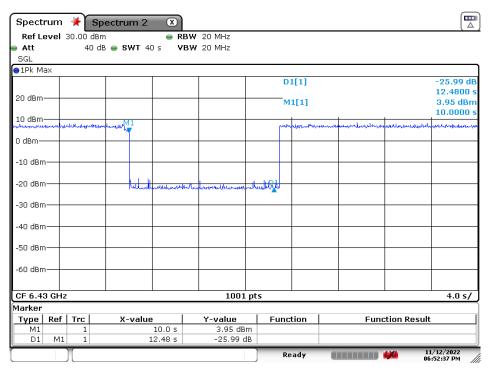
FCC: A3LSMS911U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 200 af 220
1M2209010096-15.A3L	9/3/2022 - 11/22/2022	Portable Handset	Page 200 of 239
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Spectrum	i 🤾 S	pectrum 2	X							
Ref Level	30.00 di	3m 🔹	RBW	20 MHz						
🕳 Att	40	dB 👄 SWT 40 s	VBW	20 MHz						
SGL										
😑 1Pk Max										
					D	1[1]				-36.43 dB
20 dBm										15.0000 s
		IVI			M	11[1]		والمعرفة والمحافظ	. Construction of the second second	14.56 dBm "11.0800 s
10 dBm						-		+		11.0800 S
0 dBm							_			
-10 dBm							_			
-20 dBm		hannah	Manseman	ور مرور مرور وروا مرم ماهند.	mouldersonance	سيمر وبلاسوم	1			
-30 dBm										
-40 dBm—										
-50 dBm										
-30 ubiii										
-60 dBm										
-00 abiii										
CF 6.455 G	iHz			1001	pts					4.0 s/
Marker	- 1 - 1									
Type Ref		X-value	2 -	Y-value	Fund	tion		Fund	tion Result	t
M1 D1 M	1 1	11.68 15.0		14.56 dBi -36.43 d						
	<u>1 1 </u>	13.0	121	-30,43 u			-			1/12/2022
					R	eady				1/12/2022 7:57:38 PM

Date: 12.NOV.2022 19:57:38





Date: 12.NOV.2022 18:52:37

Plot 7-334. Contention Based Protocol Timing Plot – UNII 6 – 160MHz Ch111 – Low

FCC: A3LSMS911U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 201 of 239
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Spectr	um	*	Sper	ctrun	ı 2		X										
Ref Le	vel 3	30.00 d	lBm				🔵 RE	зw	20 MHz								
🕳 Att		40	dB /	e sw	Т4	ł0 s	VE	зw	20 MHz								
SGL																	
😑 1Pk Ma	Х																
											D	1	L]				-27.19 dB
20 dBm-																	13.6800 s
20 ubiii-											M	1[1]				5.24 dBm
10 dBm-					<u></u>											1	11.0000 s
chertowner	makan	mahahan	ملعاصه	mound	1								mund	abriliando	mthelfe	formation	mutulo
0 dBm—					_	_				_							
-10 dBm-					+												
-20 dBm-					hu	1 Jackson	فليتوسعهم	late-le-	wyserie weber with	marter	and and a second	-					
-30 dBm-																	
-40 dBm-																	
-40 ubiii-																	
-50 dBm-																	
-60 dBm-																	
CF 6.50	5.04	7							100	1 pt	c						4.0 s/
Marker	o an	-							100	- pc	3	-					1.0 37
	Ref	Trc		X-v	alu	e	1		Y-value	1	Func	ie	n I		Eup	ction Result	- 1
M1		1					.0 s		5.24 d	Bm	. and					5.1511 105 UII	·
D1	M1	1				13.6	58 s		-27.19	dB							
											Re	ad	y (11 06	L/12/2022 :59:18 PM

Date: 12.NOV.2022 18:59:18



Spectrum	ı s	pectrum 2	×								
Ref Level	30.00 dE	3m	RBW	20 MHz							
🖶 Att	40	dB 👄 SWT 40 s	VBW	20 MHz							
SGL											
⊖1Pk Max				1 1							05.00.10
						D	L[1]				-25.39 dB 14.7200 s
20 dBm						M	1[1]				3.75 dBm
							-1-1				13.0400 s
10 dBm		M	1								
	ogsandersonskilformelete	the market a work was here and							Market and the second sec	ankallan and and and a	مرغم المرجب مركانهم الدي الإلمان ما وحال
0 dBm											
-10 dBm—											
10 0011											
-20 dBm				merrotermeter			will mote	n a DJ			
								× • •			
-30 dBm—											
-40 dBm											
-50 dBm											
-60 dBm											
-60 üBm											
CF 6.58 GH	Iz			1001	pts						4.0 s/
Marker											
	f Trc	X-value	4 -	Y-value		Func	tion		Fund	tion Result	
M1 D1 M	1 1	13.0		3.75 dB -25.39 c							
	- <u>-</u>	17.7		20,090							/12/2022
						Re	ady				:55:29 PM

Date: 12.NOV.2022 18:55:29

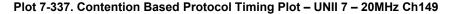
Plot 7-336. Contention Based Protocol Timing Plot – UNII 6 – 160MHz Ch111 - High

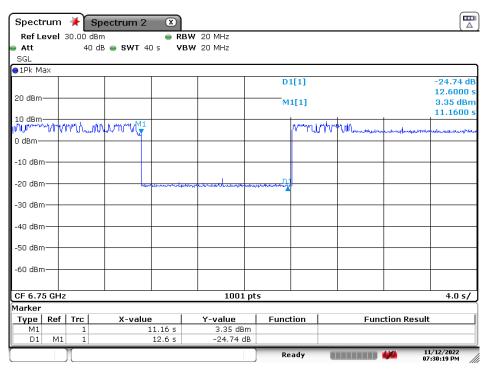
FCC: A3LSMS911U		MEASUREMENT REPORT (CERTIFICATION)				
Test Report S/N:	Test Dates:	EUT Type:	Dama 000 of 000			
1M2209010096-15.A3L	9/3/2022 - 11/22/2022	Portable Handset	Page 202 of 239			
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20 dBm M1 M1[1] 13.03 dBm 10 dBm M1 M1[1] 13.03 dBm 0 dBm M1 M1[1] 13.03 dBm 10 dBm M1 M1[1] 13.03 dBm -10 dBm M1 M1 M1 M1 -20 dBm M1 M1 M1 M1 -20 dBm M1 M1 M1 M1 M1 -30 dBm M1 M1 M1 M1 M1 M1 -50 dBm M1 M	Spectru	n Si	ectrum 2	X								
SGL • 1Pk Max 20 dBm M1 M1 M1[1] 10 dBm 13.03 dBm 10 dBm 0 -10 dBm 0 -20 dBm 0 -30 dBm 0 -20 dBm 0 -20 dBm 0 -20 dBm 0 -30 dBm 0 -40 dBm 0 -50 dBm 0 -10 dBm 0 -10 dBm 0 -20 dBm 0 -30 dBm 0 -40 dBm 0 -50 dBm 0 -10 dBm 0 -10 dBm 0 -10 dBm 0 -10 dBm 0 -20 dBm 0 -20 dBm 0 -30 dBm 0 -40 dBm 0 -10 dBm 0	Ref Leve	el 30.00 dB	n	🔵 RBW	20 MHz							
IPk Max D1[1] -34.61 dB 20 dBm M1 12.0000 s 13.03 dBm 10 dBm III 13.03 dBm 9:9060 s 0 dBm IIII IIIII 13.03 dBm -10 dBm IIIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	🖷 Att	40 d	B 👄 SWT 40	s VBW	20 MHz							
20 dBm M1 12.0000 s 10 dBm M1 M1[1] 13.03 dBm 0 dBm M1 M1[1] 13.03 dBm 10 dBm M1 M1[1] 13.03 dBm -10 dBm M1 M1 M1 -20 dBm M1 M1 M1 -30 dBm M1 M1 M1 -50 dBm M1 M1 M1 -60 dBm M1 M1 M1 M1 M1 1 9.28 s 13.03 dBm M1 M1 1 12.0 s -34.61 dB M1	SGL											
20 dBm M1 M1(1) 13.03 dBm 10 dBm M1 M1(1) 13.03 dBm 0 dBm M1 M1(1) 13.03 dBm 10 dBm M1 M1(1) 13.03 dBm 0 dBm M1 M1(1) 13.03 dBm -10 dBm M1 M1 M1 M1 -20 dBm M1 M1 M1 M1 M1 -30 dBm M1 M1 M1 M1 M1 M1 -50 dBm M1	⊖1Pk Max											
20 dBm M1 M1[1] 13.03 dBm 10 dBm 0 dBm 0 dBm 0 dBm 0 dBm -10 dBm 0 dBm 0 dBm 0 dBm 0 dBm -20 dBm 0 dBm 0 dBm 0 dBm 0 dBm -20 dBm 0 dBm 0 dBm 0 dBm 0 dBm -30 dBm 0 dBm 0 dBm 0 dBm 0 dBm -30 dBm 0 dBm 0 dBm 0 dBm 0 dBm -30 dBm 0 dBm 0 dBm 0 dBm 0 dBm -50 dBm 0 dBm 0 dBm 0 dBm 0 dBm -60 dBm 0 dBm 0 dBm 0 dBm 0 dBm M1 1 9.28 s 13.03 dBm 0 dBm D1 M1 1 12.0 s -34.61 dB 0 dBm							D	1[1]				-34.61 dB
M1 13.03 dBm 10 dBm 10 dBm -10 dBm 10 dBm -20 dBm 10 dBm -30 dBm 10 dBm -60 dBm 10 dBm -60 dBm 10 dBm -10 dBm 10 dBm -10 dBm 10 dBm -10 dBm 10 dBm -20 dBm	20 dBm											
10 dBm 0 dBm							M	1[1]	Le endere	al de la constante		13.03 dBm
-10 dBm -20 dBm -30 dBm -40 dBm -40 dBm -50 dBm -60 dBm -60 dBm -60 dBm -10 101 pts -10 101 pts -1									1001	0~0000000 0~0~0		9:2000 5
-10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -60 dBm -60 dBm -10 1 ts -10 t												
-20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -60 dBm -60 dBm -10 1 pts -20 dBm -10 1 pts -20 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -50 dBm -50 dBm -50 dBm -60 dBm -60 dBm -60 dBm -10 1 pts -20 dBm -20 dB	0 dBm											
-20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -60 dBm -60 dBm -10 1 pts -20 dBm -10 1 pts -20 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -50 dBm -50 dBm -50 dBm -60 dBm -60 dBm -60 dBm -10 1 pts -20 dBm -20 dB												
-20 dBm -30 dBm -30 dBm -40 dBm -40 dBm -40 dBm -50 dBm -50 dBm -60 dBm -60 dBm -60 dBm -70 dBm -70 dBm -70 dBm	-10 dBm—											
-20 dBin -30 dBm -30 dBm -40 dBm -40 dBm -40 dBm -50 dBm -50 dBm -60 dBm -60 dBm -60 dBm -70 dBm -70 dBm -70 dBm												
-40 dBm -50 dBm -50 dBm -60 dBm -60 dBm -60 dBm -70 dBm -70 dBm	-20 dBm—		www.udero	ومعتقد ومعاولة والألوم ويعاودونه	endered have a south the	rand fr						
-40 dBm -50 dBm -50 dBm -60 dBm -60 dBm -60 dBm -70 dBm -70 dBm	00.40-											
-50 dBm -50 dBm <t< td=""><td>-30 aBm—</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	-30 aBm—											
-50 dBm -50 dBm <t< td=""><td>40 d8m</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	40 d8m											
-60 dBm -60 dBm 1001 pts 4.0 s/ CF 6.695 GHz 1001 pts 4.0 s/ Marker Type Ref Trc X-value Function Function Result M1 1 9.28 s 13.03 dBm 11/12/2022 D1 M1 1 12.0 s -34.61 dB	-40 UBIII											
-60 dBm -60 dBm 1001 pts 4.0 s/ CF 6.695 GHz 1001 pts 4.0 s/ Marker Type Ref Trc X-value Function Function Result M1 1 9.28 s 13.03 dBm 11/12/2022 D1 M1 1 12.0 s -34.61 dB	-50 dBm-											
CF 6.695 GHz 1001 pts 4.0 s/ Marker Type Ref Trc X-value Y-value Function Function Result M1 1 9.28 s 13.03 dBm 11/12/022 11/12/022	00 00											
Marker Type Ref Trc X-value Y-value Function Function Result M1 1 9.28 s 13.03 dBm 101 11 12.0 s -34.61 dB 11/12/2022	-60 dBm—											
Marker Type Ref Trc X-value Y-value Function Function Result M1 1 9.28 s 13.03 dBm 101 11 12.0 s -34.61 dB 11/12/2022												
Marker Type Ref Trc X-value Y-value Function Function Result M1 1 9.28 s 13.03 dBm 101 11 12.0 s -34.61 dB 11/12/2022	CT 6 605				1001	nte						4.0.5/
Type Ref Trc X-value Y-value Function Function Result M1 1 9.28 s 13.03 dBm 1000000000000000000000000000000000000					1001	prs						4.0.57
M1 1 9.28 s 13.03 dBm D1 M1 1 12.0 s -34.61 dB		of Trol	V-ualue	1	Y-ualue	1	Euro	tion		Euro	tion Docul	r 1
D1 M1 1 12.0 s -34.61 dB				1.28 5		m	Func			Fund	alon Kesul	<u> </u>
Beady 11/12/2022												
							Re	ady			1	1/12/2022 7:54:36 PM

Date: 12.NOV.2022 19:54:35





Date: 12.NOV.2022 19:30:18

Plot 7-338. Contention Based Protocol Timing Plot - UNII 7 - 160MHz Ch175 - Low

FCC: A3LSMS911U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 202 of 220
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Spect	rum	s	pectrum 2	X								
Ref L	evel :	30.00 dE	3m	e Ri	BW 20 MHz							
🗕 Att		40	dB 👄 SWT 40	is VI	BW 20 MHz							
SGL												
😑 1Pk M	ах											
							D1	[1]				-28.85 dB
20 dBm												12.4800 s
20 UBIII							M	[1]				8.22 dBm
10 dBm			M1								-	11.6000 s
anno		-	Land and an and the second second					noun	John Mark	والمقادية والمراجع والمراجع والمراجع	mehronometric	une marcher
0 dBm-												
-10 dBm	1											
-20 dBm	۱ 			-	and the second day of the second		200 march 1	<u> </u>				
-30 dBn	<u>ו</u>											
-40 dBm	–											
EO do e												
-50 dBm												
-60 dBm												
-00 0811	'											
CF 6.8	25 GH	z			100	1 pts	i					4.0 s/
Marker												
Туре	Ref	Trc	X-value		Y-value		Funct	ion		Fund	tion Result	t l
M1		1		11.6 s	8.22 di							
D1	M1	1	1	2.48 s	-28.85	aB]
		Л				IJ	Re	ady				1/12/2022 7:27:47 PM

Date: 12.NOV.2022 19:27:47



Spectr	um	*	Spectrum 2	X								
Ref Le Att	vel		dBm D dB e SWT 40		3W 20 MHz 3W 20 MHz							
SGL		-10		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	201012							
●1Pk Ma	IX											
							D1	l[1]				-22.23 dB
20 dBm-								1[1]				12.3600 s 1.69 dBm
								1[1]				11.3600 s
10 dBm-			M1									1
and a design of the second states	mont	waydyn	18/14/1000.00-14-14-14-14-14					-	Winhe	antrophy. History	contraction	manutul
о цыпі—												
-10 dBm												
						1.	. D1					
-20 dBm	_			alar and a second		لللبد	and the second	-				
-30 dBm												
-30 UBIII												
-40 dBm												
-50 dBm												
-60 dBm												
-00 0811												
05 6 0 4					1001							4.9-4
Marker	CF 6.9 GHz 1001 pts 4.0 s/											
	Ref	Trc	X-value		Y-value	1	Funct	tion		Fund	ction Resu	t 1
M1		1		1.36 s	1.69 dB	m	. and			- T unit	5.101.1050	
D1	M1	1	1	.2.36 s	-22.23 0	iB						
							Re	ady			444	1/12/2022 7:32:40 PM

Date: 12.NOV.2022 19:32:40

Plot 7-340. Contention Based Protocol Timing Plot – UNII 7 – 160MHz Ch175 - High

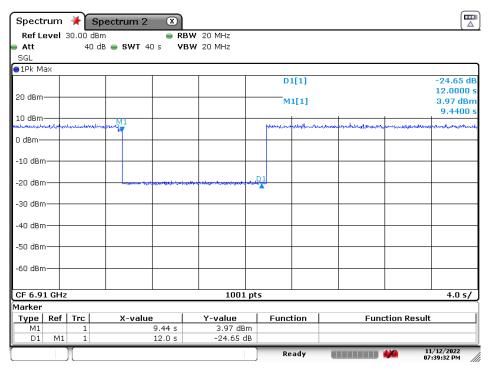
FCC: A3LSMS911U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 204 af 220
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Spectrum	Spectrum 🤾 Spectrum 2 🙁									
Ref Level	30.00 dBn	n	😑 R	BW 20 MHz						
👄 Att	40 di	3 👄 SWT 4	Os V	BW 20 MHz						
SGL										
😑 1Pk Max]
						D1	[1]			-31.74 dB
20 dBm										11.0800 s
			M1			M1				11.17 dBm
10 dBm	Anthone working and	our markethylaster	-WILLING				pump	mon many	- Charles and the start	-13.2000.5
0 dBm										
-10 dBm										
-20 dBm				<u></u>		w-waterlang				
-30 dBm										
-40 dBm										
-50 dBm										
-60 dBm										
-60 aBm										
CF 6.935 GH	lz			1001	l pts					4.0 s/
Marker										
Type Ref		X-value		Y-value		Functi	on	Fun	ction Result	
M1	1		13.2 s	11.17 dE						
D1 M1	1		11.08 s	-31.74	dB					
						Rea	dy		11 07	l/12/2022 :51:29 PM

Date: 12.NOV.2022 19:51:29





Date: 12.NOV.2022 19:39:32

Plot 7-342. Contention Based Protocol Timing Plot - UNII 8 - 160MHz Ch207 - Low

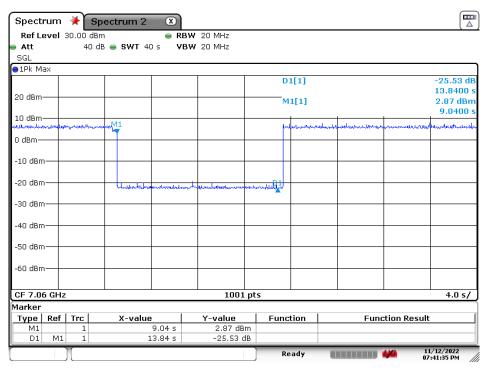
FCC: A3LSMS911U		MEASUREMENT REPORT (CERTIFICATION)				
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Spectrum Spectrum	12 🗴						
Ref Level 30.00 dBm	e RBW	20 MHz					
🕳 Att 40 dB 👄 SW	T40s VBW	20 MHz					
SGL							
●1Pk Max							
			D	l[1]			-26.31 dB
20 dBm							10.3600 s
			M	1[1]			5.48 dBm 9.0400 s
1. Lande Marille Marine Mar					-1	1	1
			Hilander	whentenation	ykieskijkiegoskiitkonsisterke	annonantitation	phoneses and a mode
0 dBm							
-10 dBm							
-20 dBm		D1					
-20 UBIII	1.001	A					
-30 dBm							
-40 dBm							
-50 dBm							-
-60 dBm							
CF 6.985 GHz	·	1001	pts				4.0 s/
Marker							
Type Ref Trc X-v		Y-value	Func	tion	Fund	tion Result	:
M1 1	9.04 s	5.48 dB					
D1 M1 1	10.36 s	-26.31 d	В				
			Re	ady			1/12/2022 7:45:53 PM

Date: 12.NOV.2022 19:45:52





Date: 12.NOV.2022 19:41:34

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

FCC: A3LSMS911U		MEASUREMENT REPORT (CERTIFICATION)				
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7.7 Radiated Spurious Emission Measurements – Above 1GHz §15.205, §15.209, §15.407(b)(6)

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11ax (20/40/80/160MHz), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating in the 5.925-7.125 GHz band: All emissions outside of the 5.925-7.125 GHz band shall not exceed an EIRP of -27dBm/MHz (68.2dBuV/m at a 3m distance). Emissions found in a restricted band are subject to the limits of 15.209 as shown in the table below.

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

Table 7-11. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5 KDB 789033 D02 v02r01 – Section G

Test Settings

Average Measurements above 1GHz (Method AD)

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = power average (RMS)
- 5. Number of measurement points = 1001 (Number of points must be \geq 2 x span/RBW)
- 6. Averaging type = power (RMS)
- 7. Sweep time = auto couple
- 8. Trace was averaged over 100 sweeps

Peak Measurements above 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

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Peak Measurements below 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Span was set greater than 1MHz
- 3. RBW = 120kHz
- 4. Detector = CISPR quasi-peak
- 5. Sweep time = auto couple
- 6. Trace was allowed to stabilize

Test Setup

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

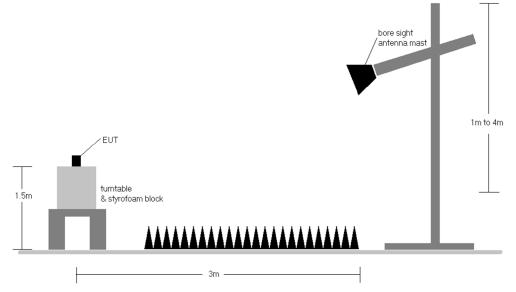


Figure 7-6. Test Instrument & Measurement Setup

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Test Notes

- All spurious emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-11. All spurious emissions that do not lie in a restricted band are subject to an average limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
- All spurious emissions that do not lie in a restricted band are subject to a peak limit not to exceed 20dB of the average limit [68.2dBµV/m]. If a peak measurement passes the average limit it was determined no further investigation is necessary.
- 3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- 4. This unit was tested with its standard battery.
- 5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
- 6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
- 8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 9. In the case where a peak-detector measurement passed the given RMS limit it was determined sufficient to demonstrate compliance.

Sample Calculations

Determining Spurious Emissions Levels

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

Radiated Band Edge Measurement Offset

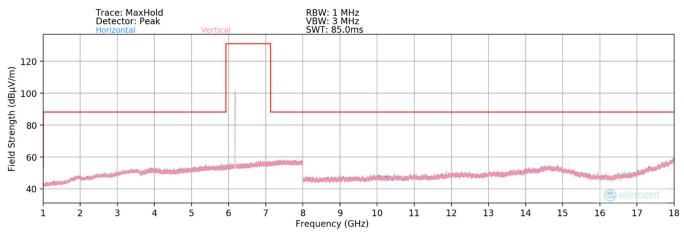
The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:
 Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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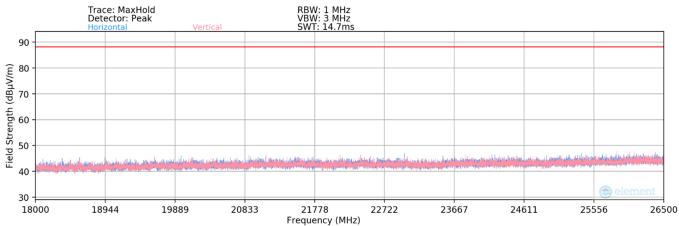
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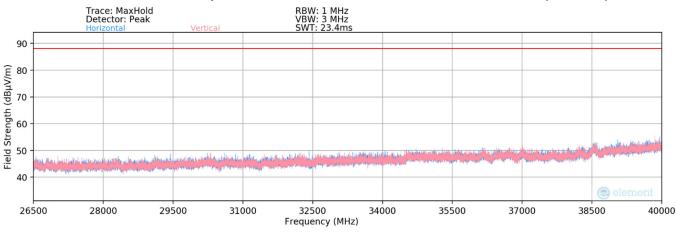
11.7.1 MIMO Radiated Spurious Emission Measurements







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





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

802.11a
6Mbps
1 & 3 Meters
5935MHz
2

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11870.00	Average	Н	-	-	-75.17	11.97	0.00	43.80	53.98	-10.18
*	11870.00	Peak	Н	-	-	-63.83	11.97	0.00	55.14	73.98	-18.84
*	17805.00	Average	Н	-	-	-77.41	19.16	0.00	48.75	53.98	-5.23
*	17805.00	Peak	Н	-	-	-63.11	19.16	0.00	63.05	73.98	-10.93
*	23740.00	Average	Н	-	-	-71.85	3.89	-9.54	29.50	53.98	-24.48
*	23740.00	Peak	Н	-	-	-60.42	3.89	-9.54	40.93	73.98	-33.05
	29675.00	Peak	Н	-	-	-60.72	6.04	-9.54	42.78	68.20	-25.42

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

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802.11a
6Mbps
1 & 3 Meters
6175MHz
45

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	12350.00	Average	Н	-	-	-74.67	12.08	0.00	44.41	53.98	-9.57
*	12350.00	Peak	Н	-	-	-62.15	12.08	0.00	56.93	73.98	-17.05
*	18525.00	Average	Н	-	-	-66.28	1.68	-9.54	32.86	53.98	-21.12
*	18525.00	Peak	Н	-	-	-55.72	1.68	-9.54	43.42	73.98	-30.56
	24700.00	Peak	Н	-	-	-55.29	4.25	-9.54	46.42	68.20	-21.78
	30875.00	Peak	Η	-	-	-55.81	6.73	-9.54	48.38	68.20	-19.82

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

FCC: A3LSMS911U		Approved by: Technical Manager	
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Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	6415MHz
Channel:	93

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	12830.00	Peak	н	-	-	-62.29	12.39	0.00	57.10	68.20	-11.10
*	19245.00	Average	Н	-	-	-66.17	2.45	-9.54	33.74	53.98	-20.24
*	19245.00	Peak	Н	-	-	-55.40	2.45	-9.54	44.51	73.98	-29.47
	25660.00	Peak	Н	-	-	-55.76	4.57	-9.54	46.27	68.20	-21.93
	32075.00	Peak	Н	-	-	-55.47	6.88	-9.54	48.86	68.20	-19.34

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

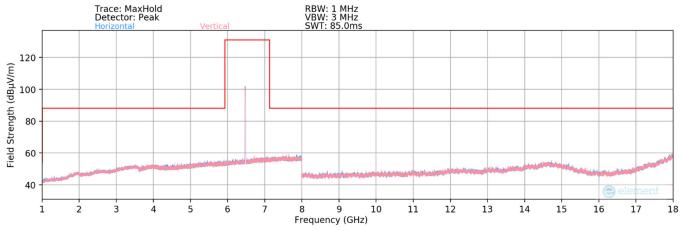
Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel: 802.11a 6Mbps 1 & 3 Meters 6175MHz 45

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	12350.00	Average	Н	-	-	-76.60	12.08	0.00	42.48	53.98	-11.50
*	12350.00	Peak	Н	-	-	-65.83	12.08	0.00	53.25	73.98	-20.73
*	18525.00	Average	Н	-	-	-66.16	1.68	-9.54	32.98	53.98	-21.00
*	18525.00	Peak	Н	-	-	-55.06	1.68	-9.54	44.08	73.98	-29.90
	24700.00	Peak	Н	-	-	-55.21	4.25	-9.54	46.50	68.20	-21.70
	30875.00	Peak	Н	-	-	-55.86	6.73	-9.54	48.33	68.20	-19.87

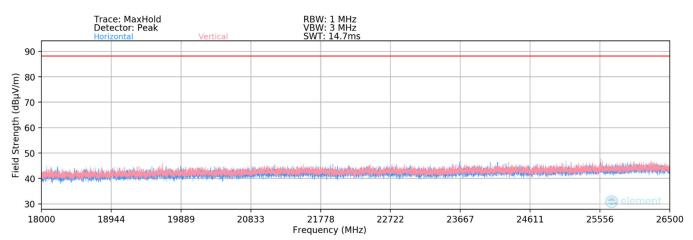
Table 7-15. Radiated Measurements MIMO (UNII Band 5 – Mid Channel – 20MHz) with WCP

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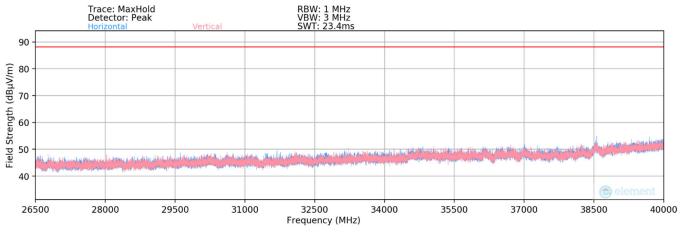




Plot 7-348. Radiated Spurious Plot above 1GHz MIMO (802.11ax- UNII Band 6 - 20MHz - Ch.105)









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

802.11a
6Mbps
1 & 3 Meters
6435MHz
97

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]		Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	12870.00	Peak	н	-	-	-65.03	12.51	0.00	54.48	68.20	-13.72
*	19305.00	Average	Н	-	-	-66.18	2.29	-9.54	33.57	53.98	-20.41
*	19305.00	Peak	Н	-	-	-55.66	2.29	-9.54	44.09	73.98	-29.89
	25740.00	Peak	Н	-	-	-55.90	4.49	-9.54	46.04	68.20	-22.16
	32175.00	Peak	Н	-	-	-55.15	7.04	-9.54	49.35	68.20	-18.85

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

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

802.11a 6Mbps 1 & 3 Meters 6475MHz 105

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Factor	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	12950.00	Peak	Н	-	-	-66.02	12.67	0.00	53.65	68.20	-14.55
*	19425.00	Average	Н	-	-	-66.50	2.36	-9.54	33.32	53.98	-20.66
*	19425.00	Peak	Н	-	-	-55.86	2.36	-9.54	43.96	73.98	-30.02
	25900.00	Peak	Н	-	-	-55.32	4.84	-9.54	46.97	68.20	-21.23
ĺ	32375.00	Peak	Н	-	-	-56.00	6.78	-9.54	48.24	68.20	-19.96

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

FCC: A3LSMS911U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager	
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802.11a
6Mbps
1 & 3 Meters
6515MHz
113

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	13030.00	Peak	Н	-	-	-66.44	12.83	0.00	53.39	68.20	-14.81
*	19545.00	Average	Н	-	-	-72.31	2.31	-9.54	27.46	53.98	-26.52
*	19545.00	Peak	Н	-	-	-61.97	2.31	-9.54	37.80	73.98	-36.18
	26060.00	Peak	Н	-	-	-61.05	4.92	-9.54	41.33	68.20	-26.87
	32575.00	Peak	н	-	-	-59.26	6.55	-9.54	44.75	68.20	-23.45

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

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

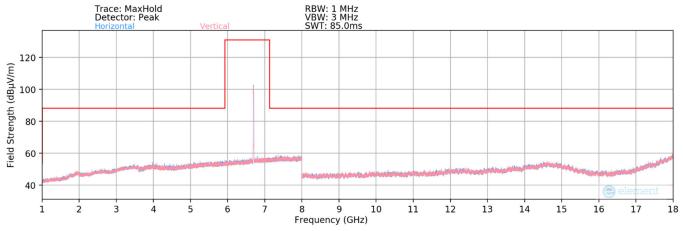
802.11a 6Mbps 1 & 3 Meters 6475MHz 105

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	12950.00	Peak	Н	-	-	-66.06	12.67	0.00	53.61	68.20	-14.59
*	19425.00	Average	Н	-	-	-66.50	2.36	-9.54	33.32	53.98	-20.66
*	19425.00	Peak	Н	-	-	-56.27	2.36	-9.54	43.55	73.98	-30.43
	25900.00	Peak	Н	-	-	-55.67	4.84	-9.54	46.62	68.20	-21.58
	32375.00	Peak	Н	-	-	-56.80	6.78	-9.54	47.44	68.20	-20.76

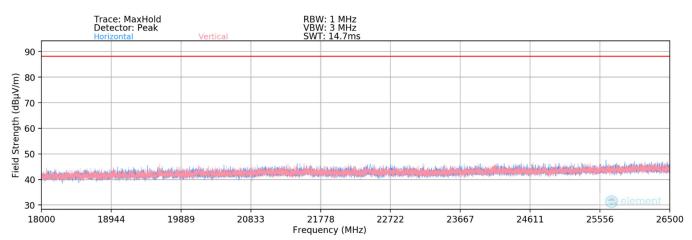
Table 7-19. Radiated Measurements MIMO (UNII Band 6 – Mid Channel – 20MHz) with WCP

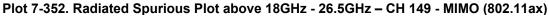
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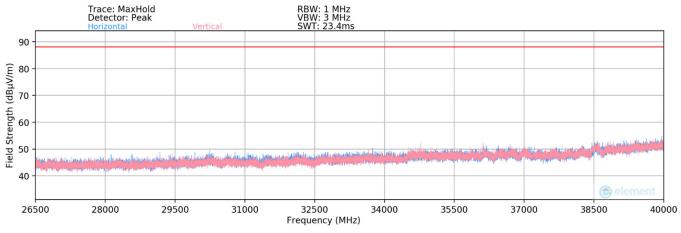




Plot 7-351. Radiated Spurious Plot above 1GHz MIMO (802.11ax- UNII Band 7 - 20MHz - Ch.149)









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

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

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]		Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	13070.00	Peak	н	-	-	-66.13	12.94	0.00	53.81	68.20	-14.39
*	19605.00	Average	Н	-	-	-66.31	2.79	-9.54	33.94	53.98	-20.04
*	19605.00	Peak	Н	-	-	-55.31	2.79	-9.54	44.94	73.98	-29.04
	26140.00	Peak	Н	-	-	-55.54	4.83	-9.54	46.75	68.20	-21.45
	32675.00	Peak	Н	-	-	-55.26	6.85	-9.54	49.05	68.20	-19.15

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

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

802.11a
6Mbps
1 & 3 Meters
6695MHz
149

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	13390.00	Average	Н	-	-	-79.08	12.97	0.00	40.89	53.98	-13.09
*	13390.00	Peak	Н	-	-	-65.75	12.97	0.00	54.22	73.98	-19.76
*	20085.00	Average	Н	-	-	-66.44	3.04	-9.54	34.06	53.98	-19.92
*	20085.00	Peak	Н	-	-	-55.72	3.04	-9.54	44.78	73.98	-29.20
	26780.00	Peak	Н	-	-	-55.36	5.16	-9.54	47.26	68.20	-20.94
	33475.00	Peak	Н	-	-	-54.98	7.26	-9.54	49.74	68.20	-18.46

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

FCC: A3LSMS911U		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dama 040 of 000	
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Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	6875MHz
Channel:	185

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	13750.00	Peak	Н	-	-	-66.09	13.83	0.00	54.74	68.20	-13.46
*	20625.00	Average	Н	-	-	-67.44	3.28	-9.54	33.30	53.98	-20.68
*	20625.00	Peak	Н	-	-	-56.68	3.28	-9.54	44.06	73.98	-29.92
	27500.00	Peak	Н	-	-	-55.81	4.79	-9.54	46.43	68.20	-21.77
	34375.00	Peak	Н	-	-	-55.01	7.69	-9.54	50.14	68.20	-18.06

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

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

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	13390.00	Average	н	-	-	-77.08	12.97	0.00	42.89	53.98	-11.09
*	13390.00	Peak	Н	-	-	-65.91	12.97	0.00	54.06	73.98	-19.92
*	20085.00	Average	Н	-	-	-66.09	3.04	-9.54	34.41	53.98	-19.57
*	20085.00	Peak	Н	-	-	-55.57	3.04	-9.54	44.93	73.98	-29.05
	26780.00	Peak	Н	-	-	-55.10	5.16	-9.54	47.52	68.20	-20.68
	33475.00	Peak	Н	-	-	-55.04	7.26	-9.54	49.68	68.20	-18.52

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

FCC: A3LSMS911U		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dega 210 of 220	
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