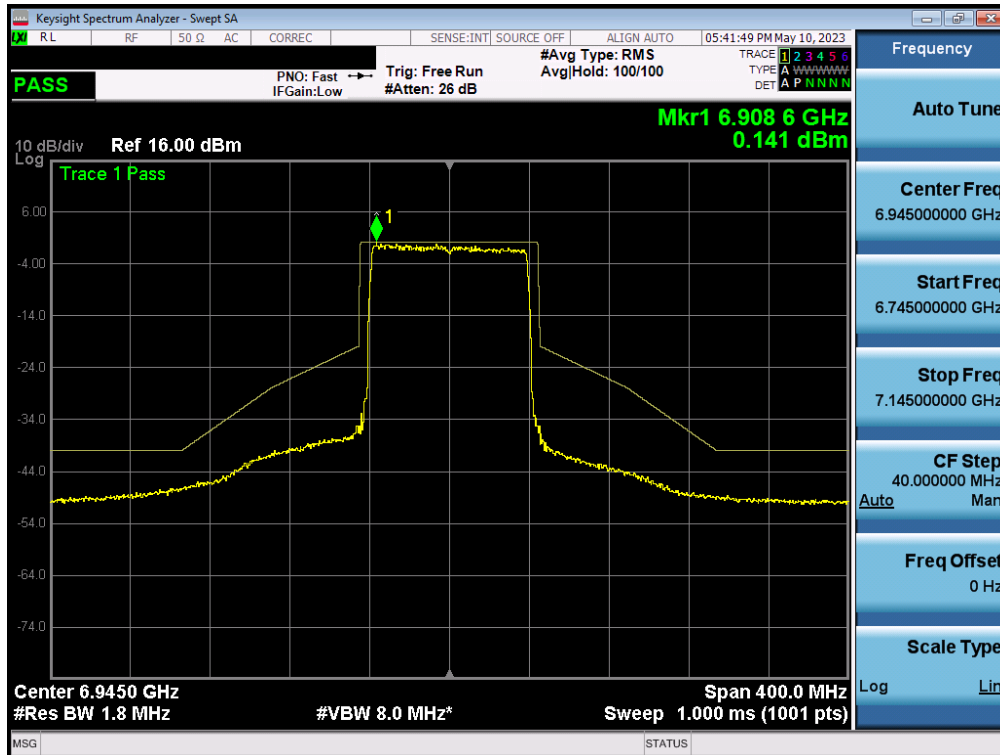
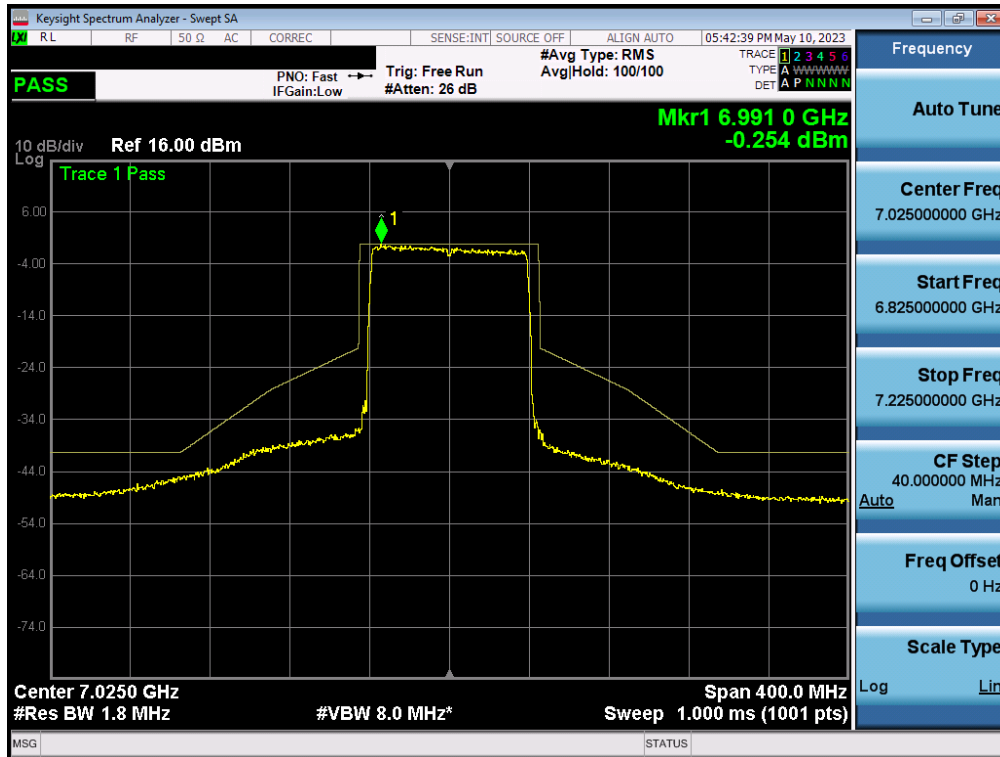


Plot 7-309. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 8) – Ch. 227)

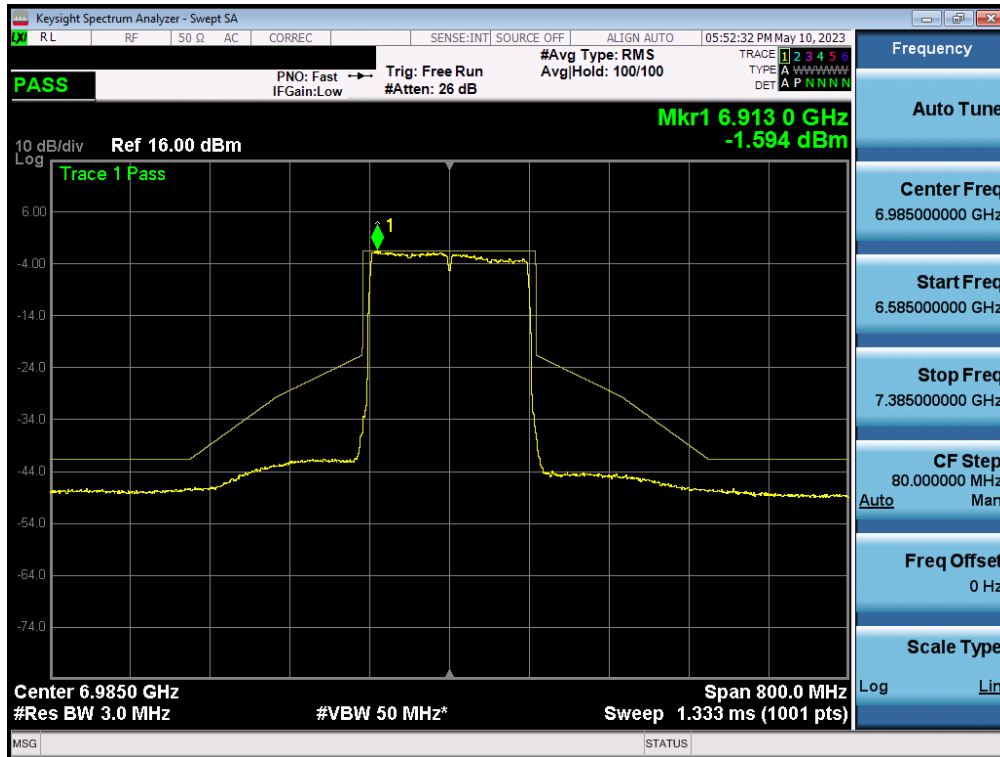


Plot 7-310. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 8) – Ch. 199)

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2303200036-08.A3L	Test Dates: 04/03/2023 - 05/18/2023	EUT Type: Portable Tablet	Page 186 of 229



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)

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2303200036-08.A3L	Test Dates: 04/03/2023 - 05/18/2023	EUT Type: Portable Tablet	Page 187 of 229



7.6 Contention Based Protocol

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 if 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. Set 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 the 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.

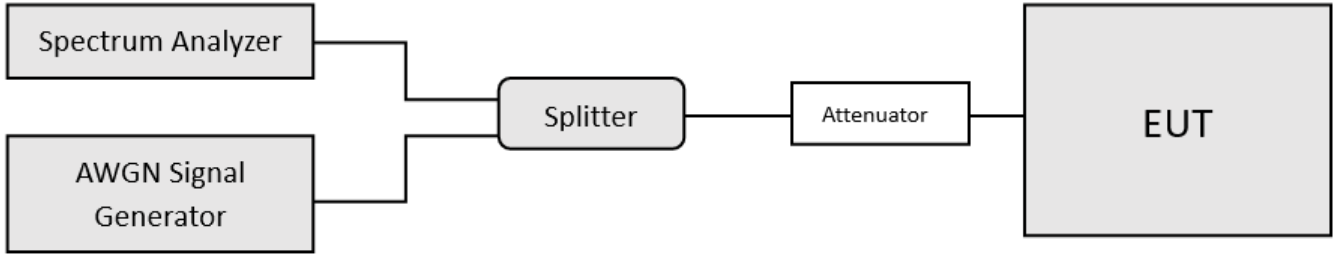


Figure 7-5. Contention-based protocol test setup conducted method.

Test Notes

1. Per guidance from KDB 987594 D02 v01r01, contention-based protocol was tested using an AWGN signal with a bandwidth of 10MHz. The amplitude of the signal was increased until detected by the EUT, signaled by the ceasing of transmission, 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 run 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 transmitting.
5. Only one AWGN plot is shown in this section as a representative plot for the AWGN signal used to execute the Contention Based Protocol testing per KDB 987594 D02.

$$\text{Detection Level} = \text{Injected AWGN Power (dBm)} - \text{Antenna Gain (dBi)} + \text{Path Loss (dB)}$$

Equation 7-1. Detection Level Calculation

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]
UNII Band 5	53	6215	20	6215	-75.30	-8.27	-67.03	-62.0	-5.03
				6110	-84.95	-8.27	-76.68	-62.0	-14.68
	47	6185	160	6185	-74.94	-8.27	-66.67	-62.0	-4.67
				6260	-79.63	-8.27	-71.36	-62.0	-9.36
UNII Band 6	101	6455	20	6455	-77.87	-11.80	-66.07	-62.0	-4.07
				6430	-83.54	-11.80	-71.74	-62.0	-9.74
	111	6505	160	6505	-73.99	-11.80	-62.19	-62.0	-0.19
				6580	-83.07	-11.80	-71.27	-62.0	-9.27
UNII Band 7	149	6695	20	6695	-79.79	-12.75	-67.04	-62.0	-5.04
				6750	-85.46	-12.75	-72.71	-62.0	-10.71
	175	6825	160	6825	-75.81	-12.75	-63.06	-62.0	-1.06
				6900	-85.13	-12.75	-72.38	-62.0	-10.38
UNII Band 8	197	6935	20	6935	-79.65	-12.29	-67.36	-62.0	-5.36
				6910	-82.53	-12.29	-70.24	-62.0	-8.24
	207	6985	160	6985	-75.94	-12.29	-63.65	-62.0	-1.65
				7060	-82.23	-12.29	-69.94	-62.0	-7.94

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

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2303200036-08.A3L	Test Dates: 04/03/2023 - 05/18/2023	EUT Type: Portable Tablet	Page 189 of 229



Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	Antenna Gain [dBi]	EUT Transmission Status			Detection Limit [dBm]	Margin [dB]
						Adjusted AWGN Power (dBm)				
						Normal	Minimal	Ceased		
UNII Band 5	53	6215	20	6215	-8.27	-71.53	-68.33	-67.03	-62.0	-5.03
	47	6185	160	6110	-8.27	-81.18	-77.98	-76.68	-62.0	-14.68
				6185	-8.27	-71.17	-67.97	-66.67	-62.0	-4.67
				6260	-8.27	-75.86	-72.66	-71.36	-62.0	-9.36
UNII Band 6	101	6455	20	6455	-11.80	-70.57	-67.37	-66.07	-62.0	-4.07
	111	6505	160	6430	-11.80	-76.24	-73.04	-71.74	-62.0	-9.74
				6505	-11.80	-66.69	-63.49	-62.19	-62.0	-0.19
				6580	-11.80	-75.77	-72.57	-71.27	-62.0	-9.27
UNII Band 7	149	6695	20	6695	-12.75	-71.54	-68.34	-67.04	-62.0	-5.04
	175	6825	160	6750	-12.75	-77.21	-74.01	-72.71	-62.0	-10.71
				6825	-12.75	-67.56	-64.36	-63.06	-62.0	-1.06
				6900	-12.75	-76.88	-73.68	-72.38	-62.0	-10.38
UNII Band 8	197	6935	20	6935	-12.29	-71.86	-68.66	-67.36	-62.0	-5.36
	207	6985	160	6910	-12.29	-74.74	-71.54	-70.24	-62.0	-8.24
				6985	-12.29	-68.15	-64.95	-63.65	-62.0	-1.65
				7060	-12.29	-74.44	-71.24	-69.94	-62.0	-7.94

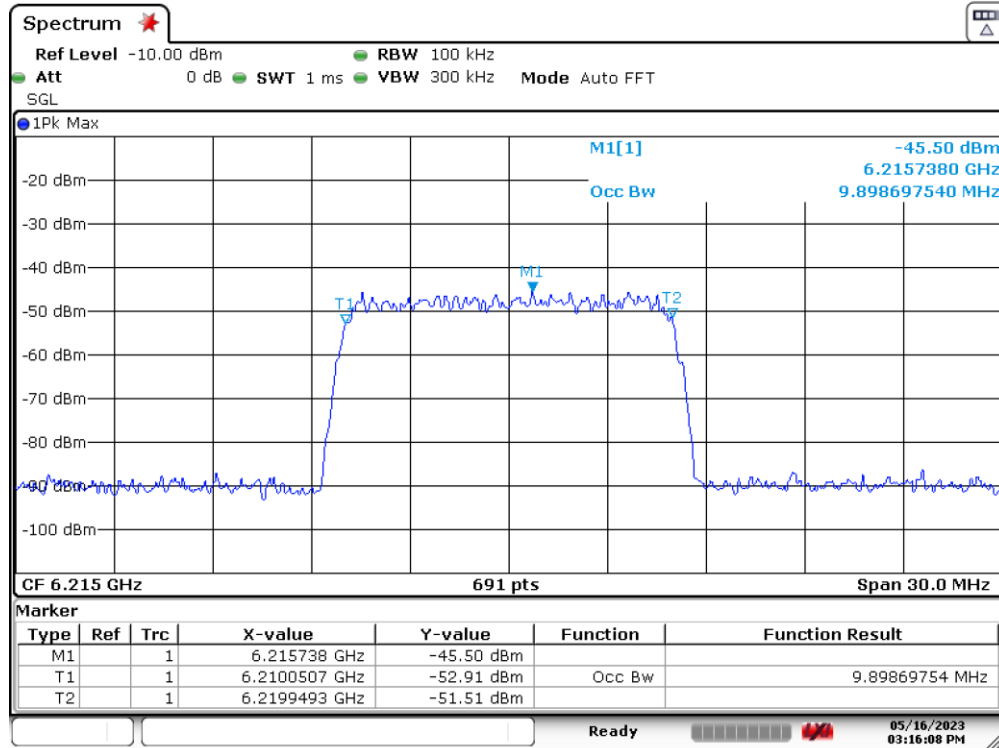
Table 7-9. Contention Based Protocol – Detection Results – All Tx Cases

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 (%)	
UNII Band 5	53	6215	20	6215	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	
	47	6185	160	6110	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				6185	1	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	1	1
UNII Band 6	101	6455	20	6455	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	
	111	6505	160	6430	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				6505	1	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	1	1
UNII Band 7	149	6695	20	6695	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	
	175	6825	160	6750	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				6825	1	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	1	1
UNII Band 8	197	6935	20	6935	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	
	207	6985	160	6910	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				6985	1	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	1	1

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

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
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7.6.1 AWGN Plots

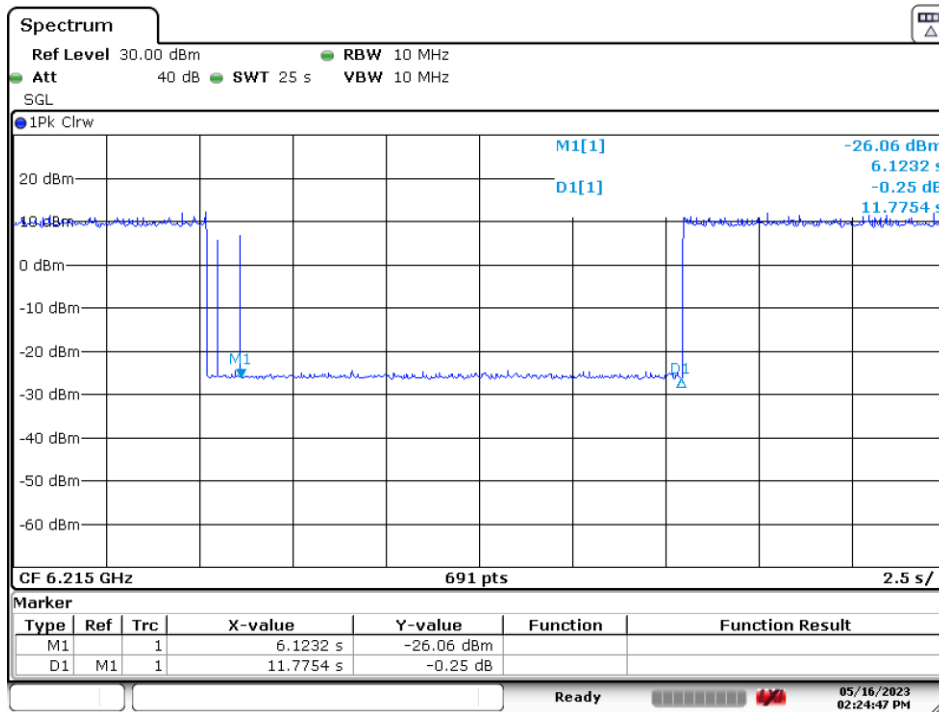


Date: 16.MAY.2023 15:16:08

Plot 7-313. AWGN Signal (20MHz (UNII Band 5) – Mid)

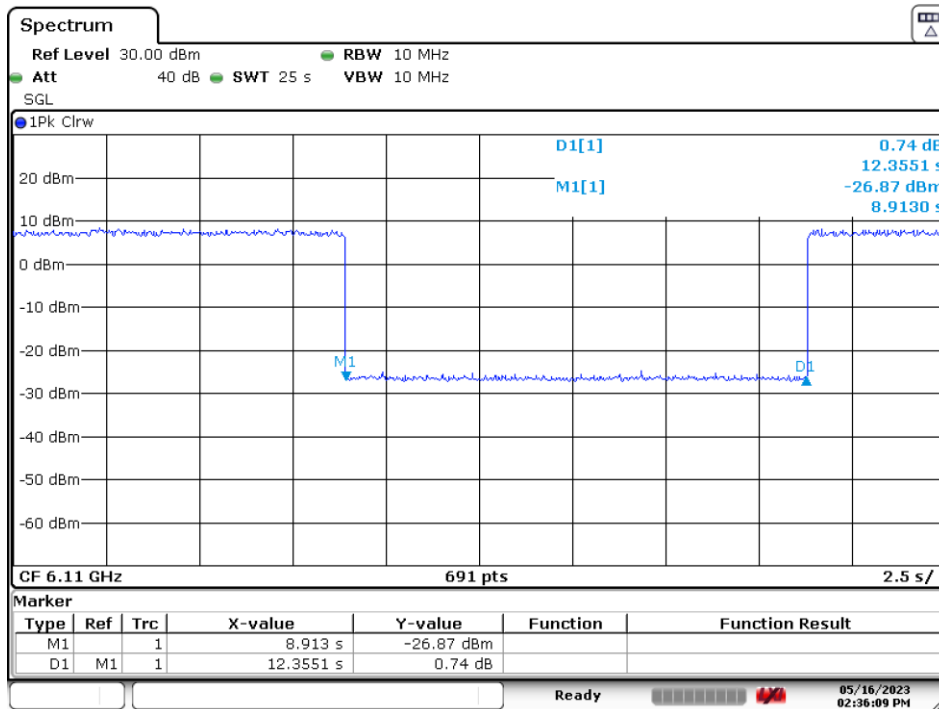
FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2303200036-08.A3L	Test Dates: 04/03/2023 - 05/18/2023	EUT Type: Portable Tablet	Page 191 of 229

7.6.2 CBP Timing Plots



Date: 16.MAY.2023 14:24:47

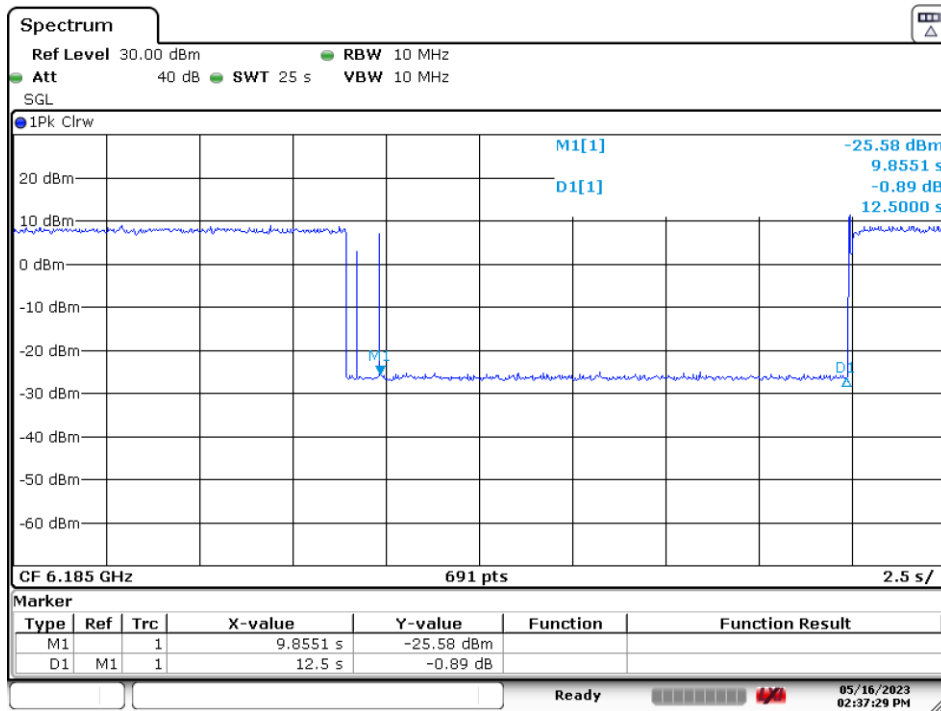
Plot 7-314. Contention Based Protocol Timing Plot (20MHz (UNII Band 5) – Ch. 53)



Date: 16.MAY.2023 14:36:09

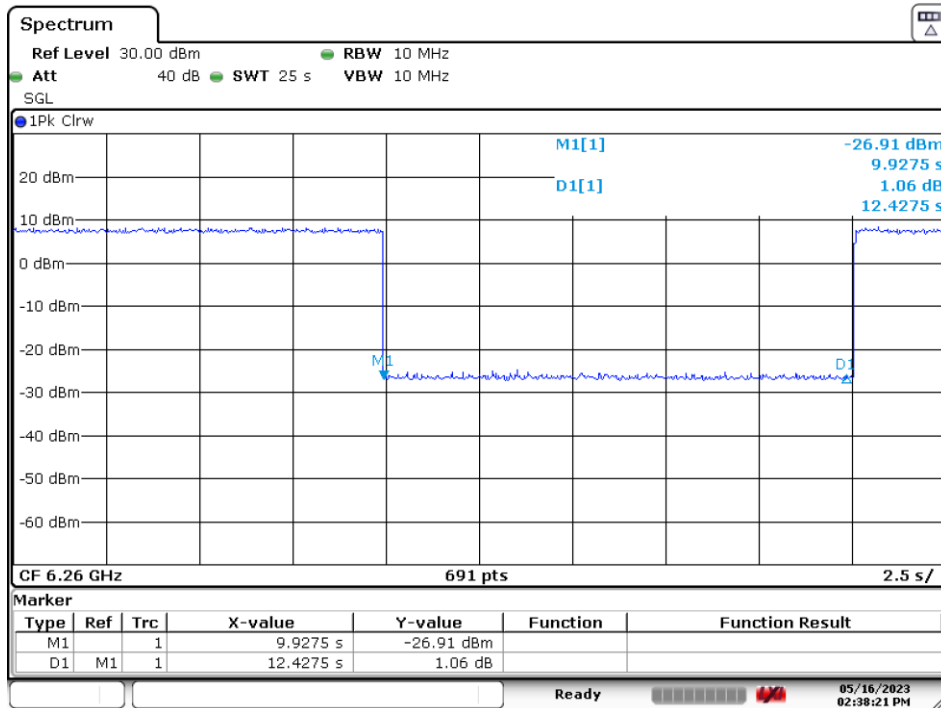
Plot 7-315. Contention Based Protocol Timing Plot (160MHz (UNII Band 5) – Ch. 47 Low)

FCC ID: A3LSMX910 IC: 649E-SMX910			MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2303200036-08.A3L	Test Dates: 04/03/2023 - 05/18/2023	EUT Type: Portable Tablet	Page 192 of 229		



Date: 16.MAY.2023 14:37:29

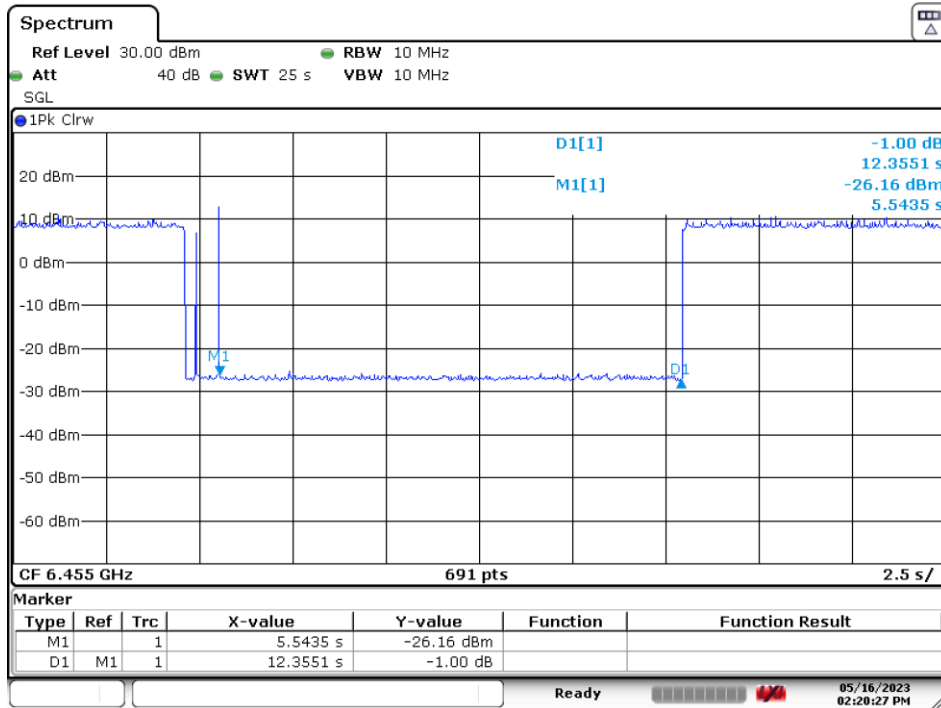
Plot 7-316. Contention Based Protocol Timing Plot (160MHz (UNII Band 5) – Ch. 47 Mid)



Date: 16.MAY.2023 14:38:21

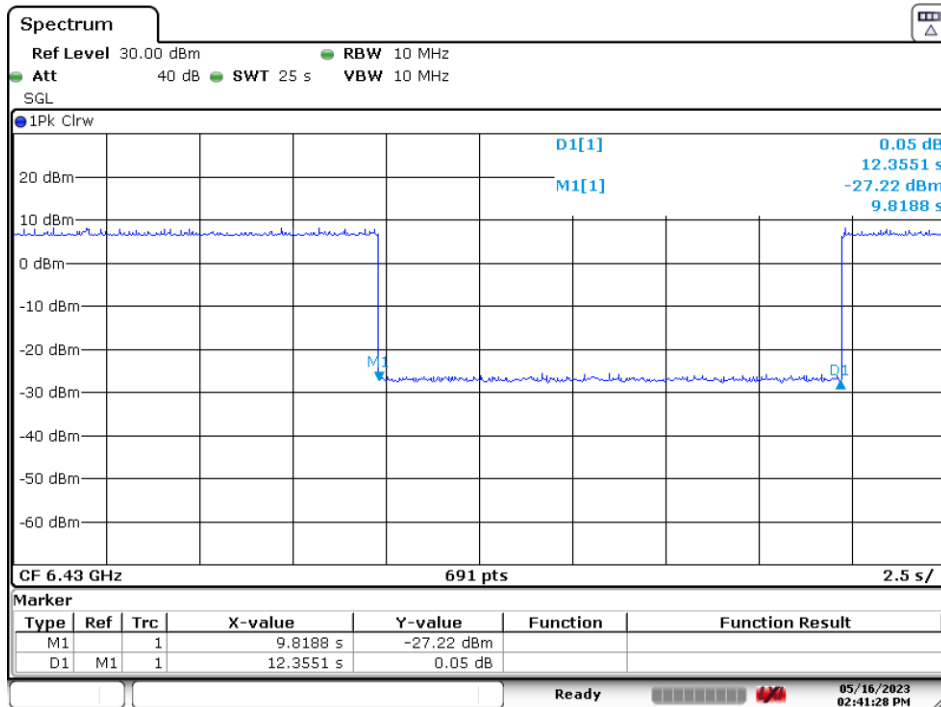
Plot 7-317. Contention Based Protocol Timing Plot (160MHz (UNII Band 5) – Ch. 47 High)

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
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Date: 16.MAY.2023 14:20:27

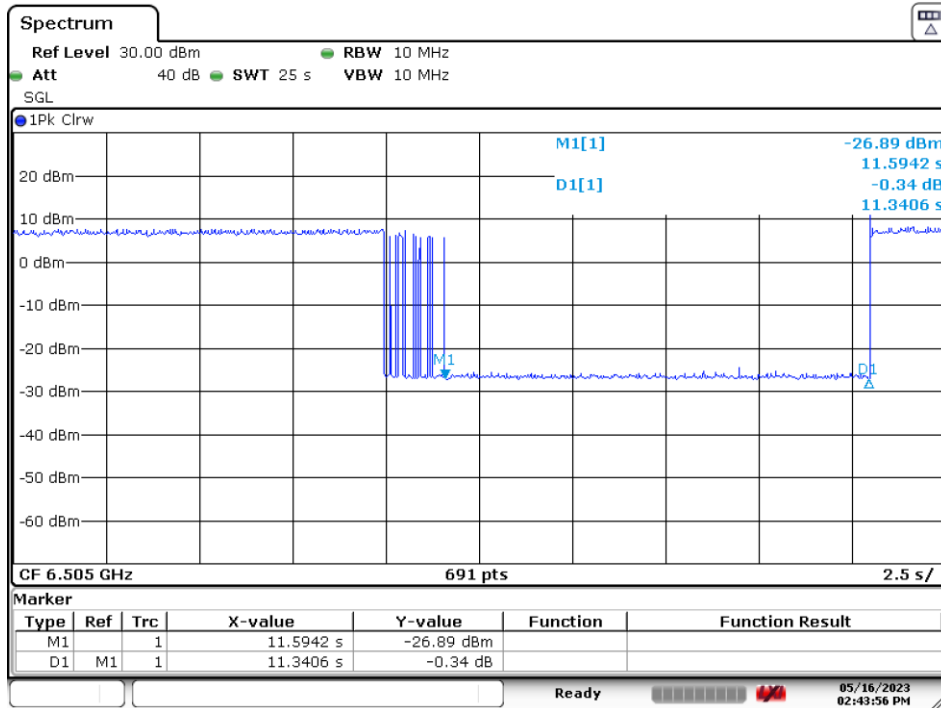
Plot 7-318. Contention Based Protocol Timing Plot (20MHz (UNII Band 6) – Ch. 101)



Date: 16.MAY.2023 14:41:28

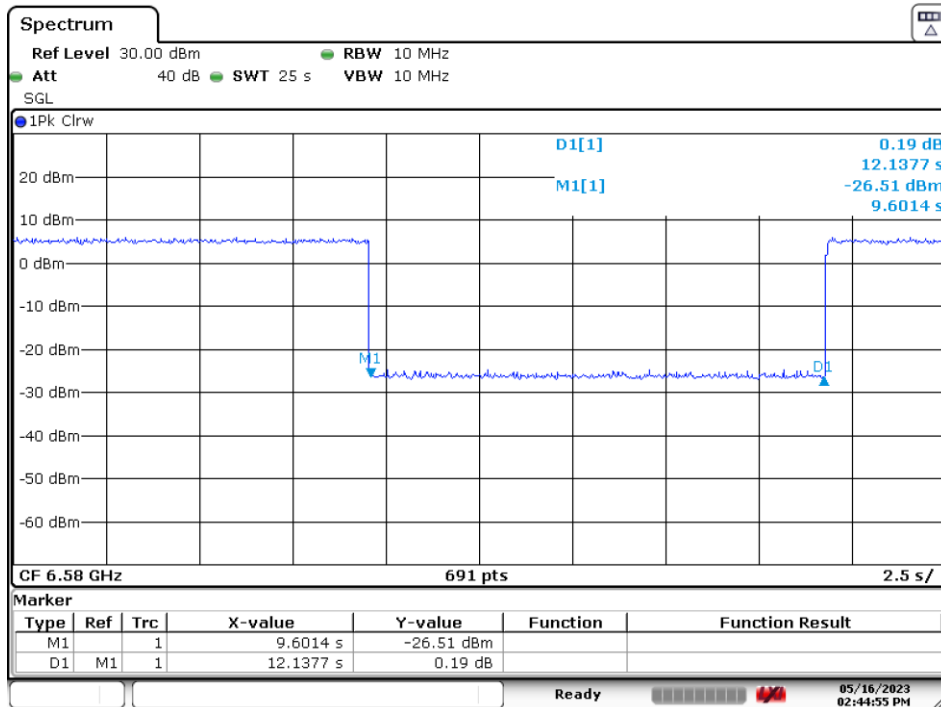
Plot 7-319. Contention Based Protocol Timing Plot (160MHz (UNII Band 6) – Ch. 111 Low)

FCC ID: A3LSMX910 IC: 649E-SMX910		MEASUREMENT REPORT		Approved by: Technical Manager
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Date: 16.MAY.2023 14:43:56

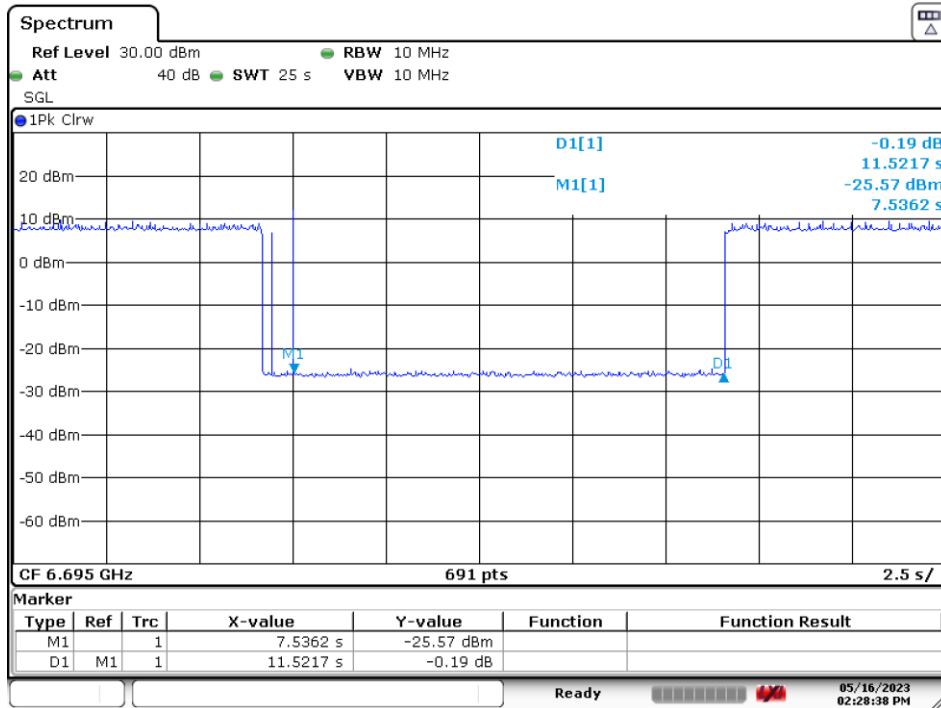
Plot 7-320. Contention Based Protocol Timing Plot (160MHz (UNII Band 6) – Ch. 111 Mid)



Date: 16.MAY.2023 14:44:55

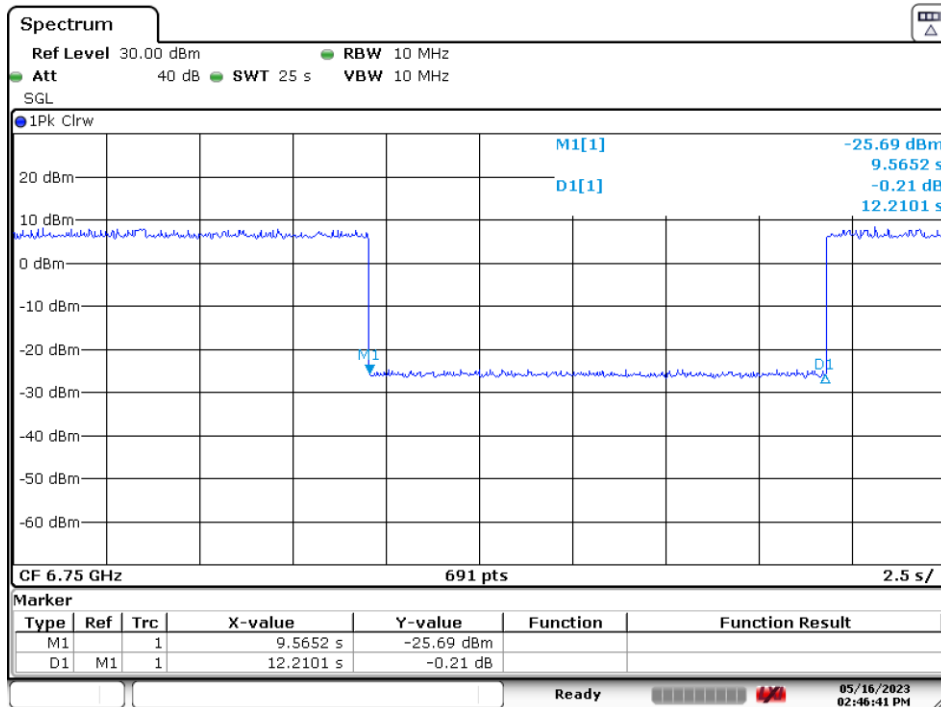
Plot 7-321. Contention Based Protocol Timing Plot (160MHz (UNII Band 6) – Ch. 111 High)

FCC ID: A3LSMX910 IC: 649E-SMX910		MEASUREMENT REPORT		Approved by: Technical Manager
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Date: 16.MAY.2023 14:28:38

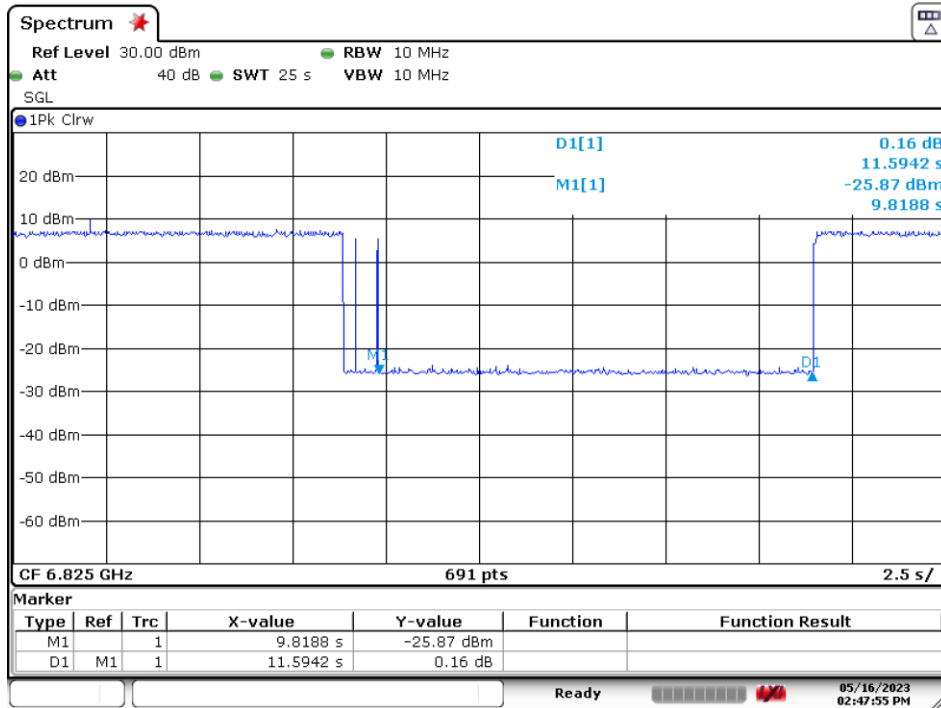
Plot 7-322. Contention Based Protocol Timing Plot (20MHz (UNII Band 7) – Ch. 149)



Date: 16.MAY.2023 14:46:41

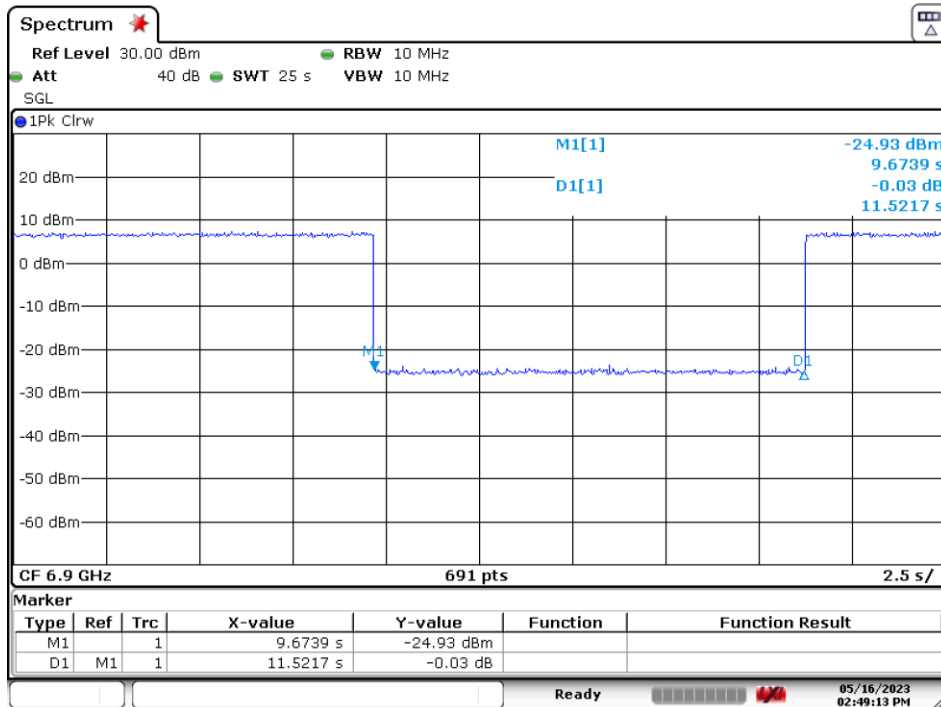
Plot 7-323. Contention Based Protocol Timing Plot (160MHz (UNII Band 7) – Ch. 175 Low)

FCC ID: A3LSMX910 IC: 649E-SMX910		MEASUREMENT REPORT		Approved by: Technical Manager
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Date: 16.MAY.2023 14:47:56

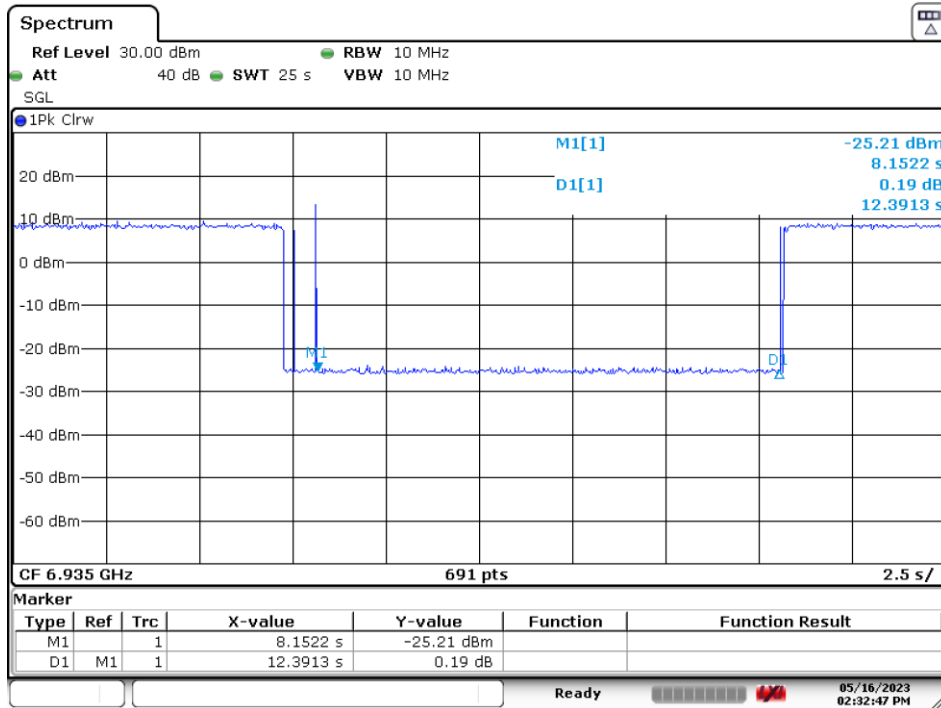
Plot 7-324. Contention Based Protocol Timing Plot (160MHz (UNII Band 7) – Ch. 175 Mid)



Date: 16.MAY.2023 14:49:14

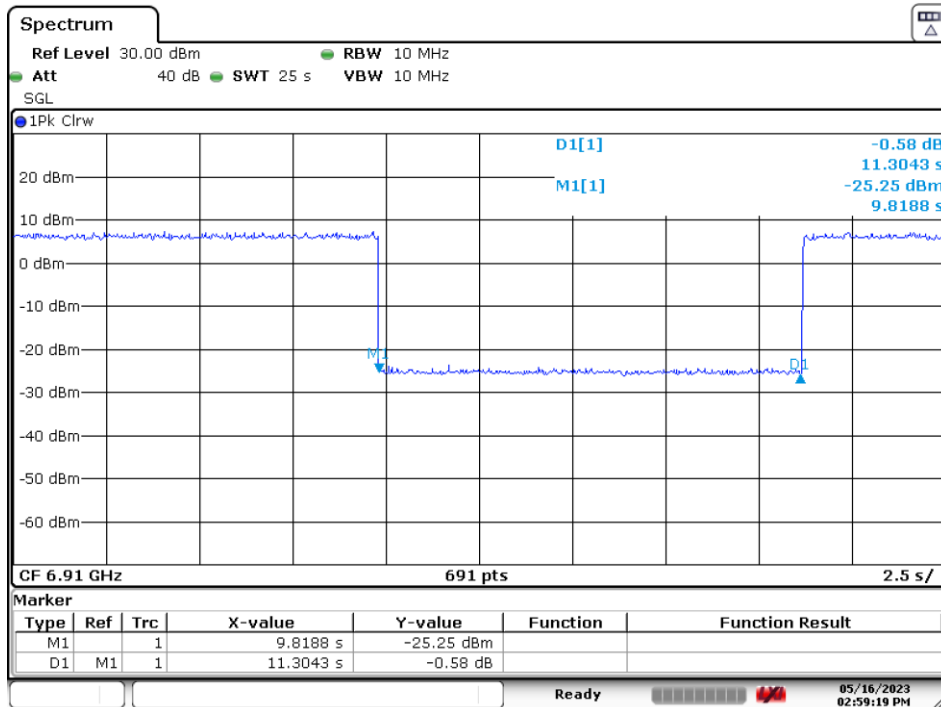
Plot 7-325. Contention Based Protocol Timing Plot (160MHz (UNII Band 7) – Ch. 175 High)

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
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Date: 16.MAY.2023 14:32:47

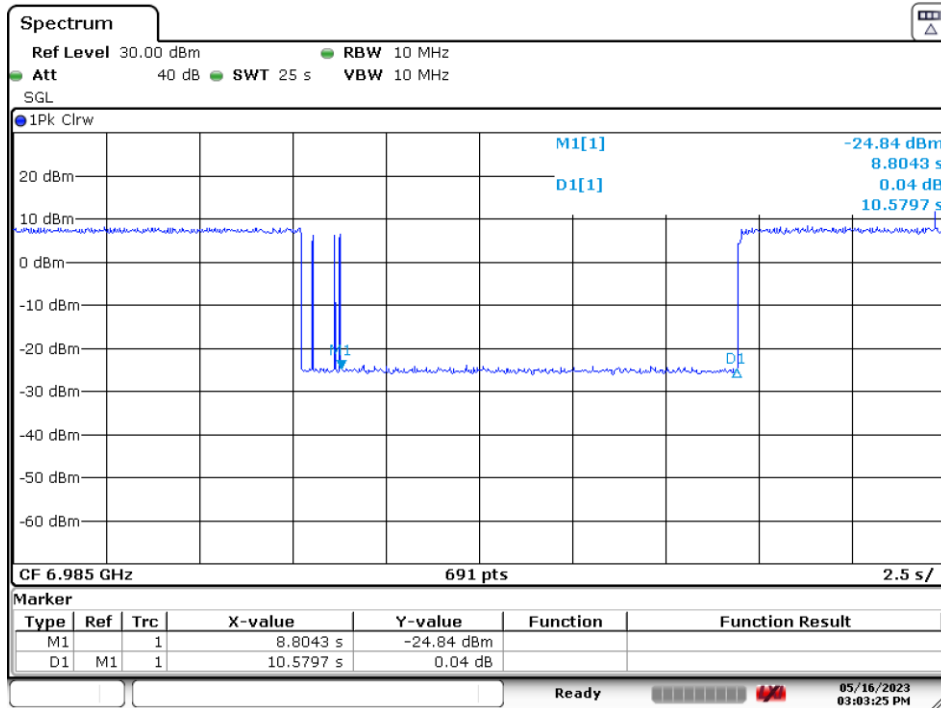
Plot 7-326. Contention Based Protocol Timing Plot (20MHz (UNII Band 8) – Ch. 197)



Date: 16.MAY.2023 14:59:19

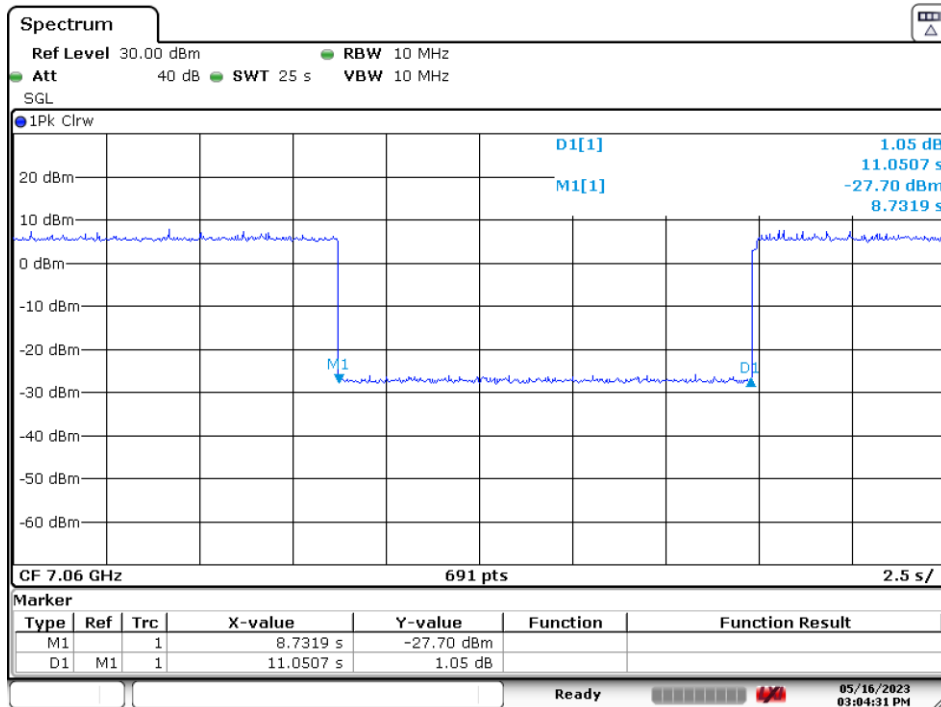
Plot 7-327. Contention Based Protocol Timing Plot (160MHz (UNII Band 8) – Ch. 207 Low)

FCC ID: A3LSMX910 IC: 649E-SMX910		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2303200036-08.A3L	Test Dates: 04/03/2023 - 05/18/2023	EUT Type: Portable Tablet		Page 198 of 229



Date: 16.MAY.2023 15:03:25

Plot 7-328. Contention Based Protocol Timing Plot (160MHz (UNII Band 8) – Ch. 207 Mid)



Date: 16.MAY.2023 15:04:32

Plot 7-329. Contention Based Protocol Timing Plot (160MHz (UNII Band 8) – Ch. 207 High)

FCC ID: A3LSMX910 IC: 649E-SMX910		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2303200036-08.A3L	Test Dates: 04/03/2023 - 05/18/2023	EUT Type: Portable Tablet		Page 199 of 229

7.7 Radiated Emission Measurements

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013, 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 [μ V/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400\F (kHz)	300
0.490 – 1.705 MHz	24000\F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-11. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5

Test Settings – Above 1GHz

Average Field Strength Measurements (Method AD – Average Detection)

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 $\geq 2 \times \text{span} \backslash \backslash \text{RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
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Peak Field Strength Measurements

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

Test Settings – Below 1GHz

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest.
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize.

Test Setup

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

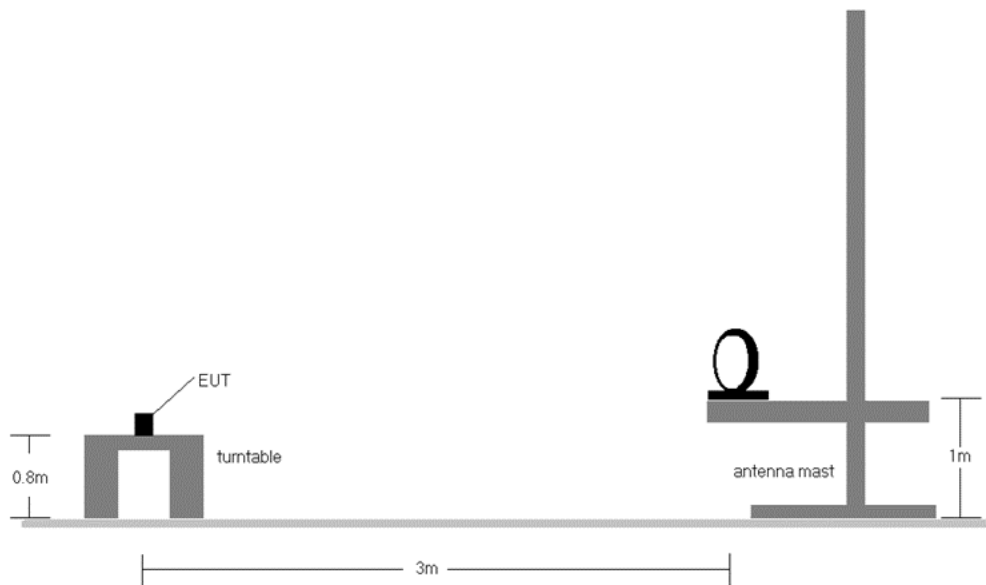


Figure 7-6. Radiated Test Setup < 30Mhz

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
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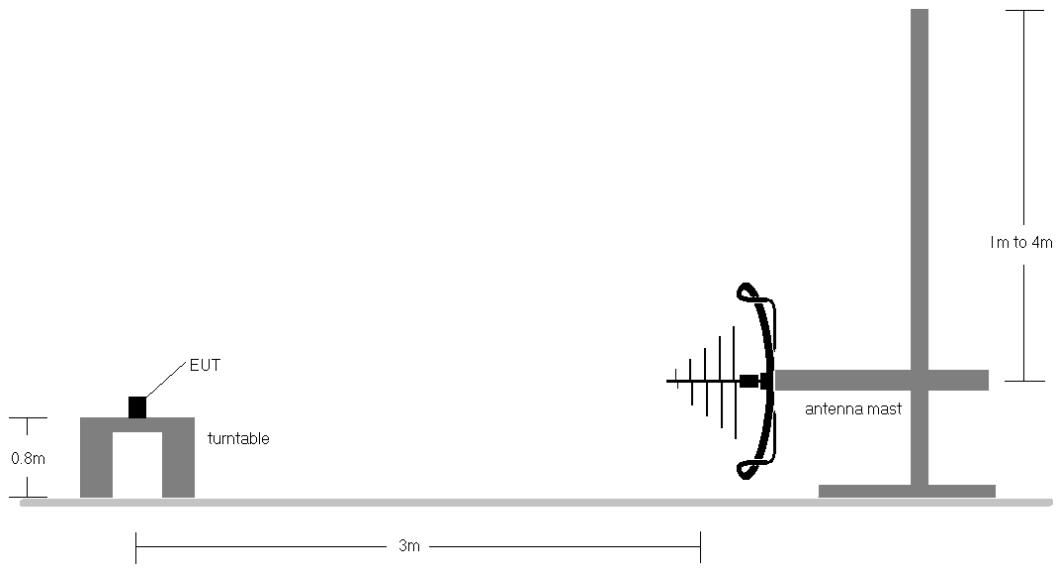


Figure 7-7. Radiated Test Setup < 1GHz

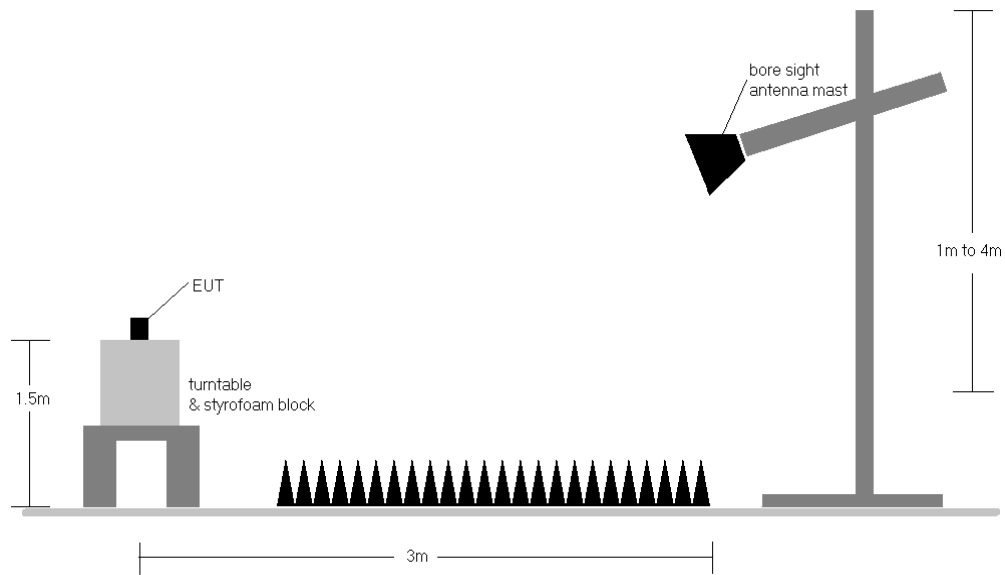


Figure 7-8. Radiated Test Setup > 1GHz

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2303200036-08.A3L	Test Dates: 04/03/2023 - 05/18/2023	EUT Type: Portable Tablet	Page 202 of 229

Test Notes

1. All spurious emissions lying in restricted bands specified in §15.205 are below the limits specified in §15.209. All spurious emissions that do not lie in a restricted band are subject to an average limit of -27dBm/MHz. At 3 meters, the field strength limit in dB μ V/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 68.2dB μ V/m.
2. All spurious emissions that do not lie in a restricted band are subject to a peak limit not to exceed 20dB of the average limit [68.2dB μ V/m]. If a peak measurement passes the average limit, it was determined no further investigation is necessary.
3. The antenna is manipulated through typical positions, polarity, and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported, however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1-meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. In the case where a peak-detector measurement passed the given RMS limit it was determined sufficient to demonstrate compliance.
9. The results recorded using the broadband antenna are known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy.

Sample Calculations

Determining Spurious Emissions Levels

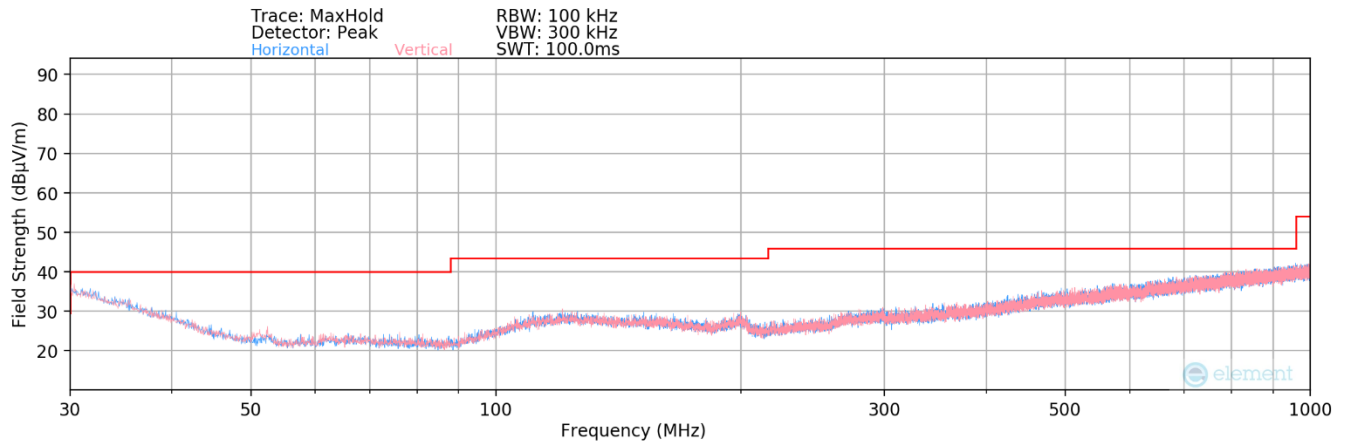
- Field Strength Level [dB μ V/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dB μ V/m] – Limit [dB μ V/m]

Radiated Band Edge Measurement Offset

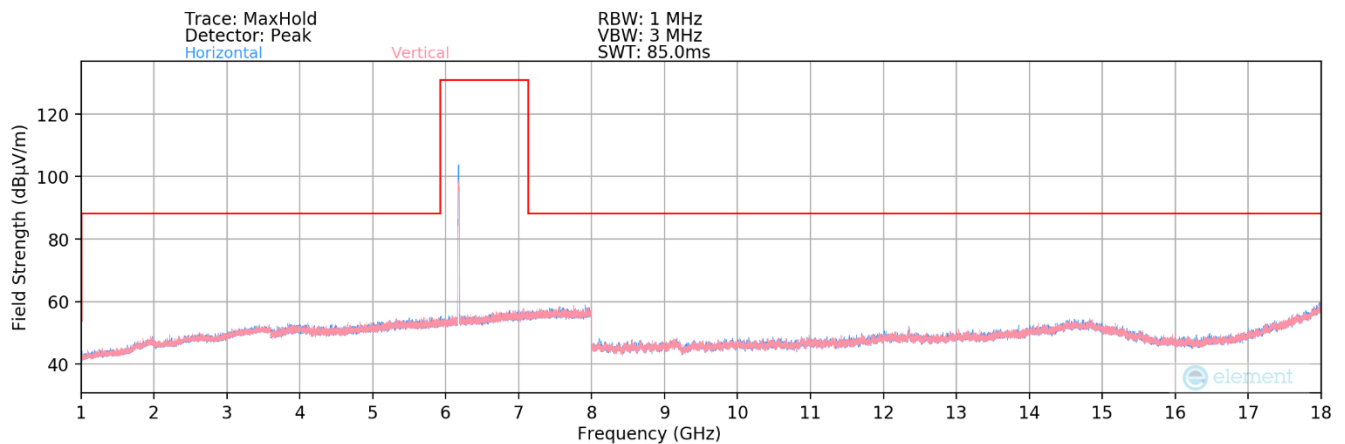
The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:
 Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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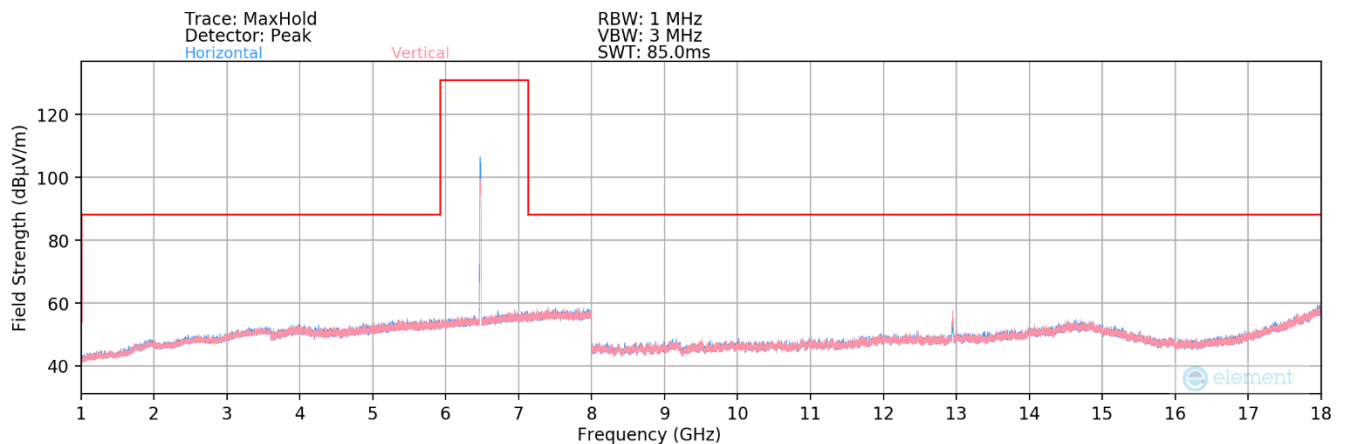
7.7.1 MIMO Radiated Spurious Emission Measurements



Plot 7-330. Radiated Spurious Plot below 1GHz MIMO (802.11ax)

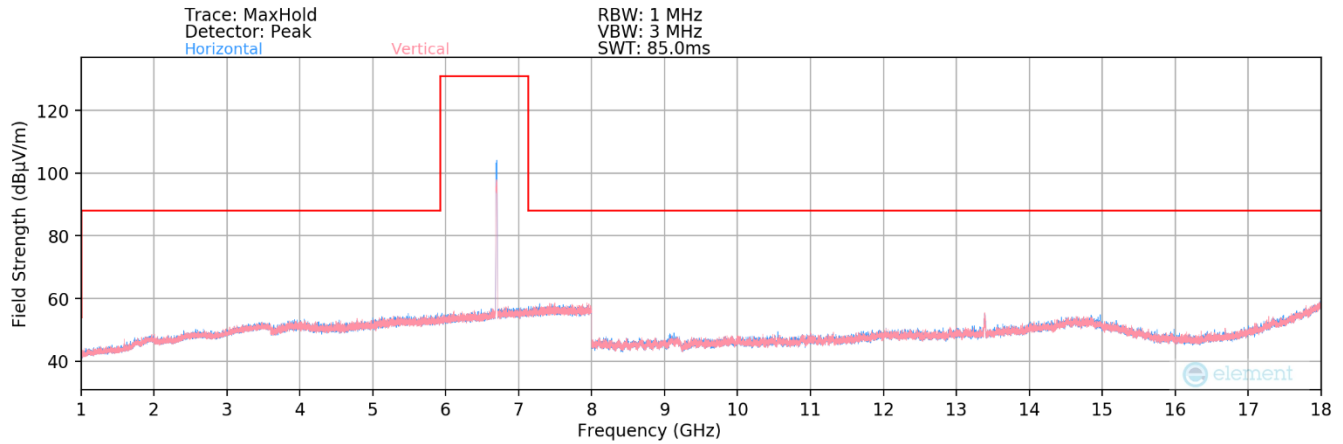


Plot 7-331. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 5 Ch. 45)

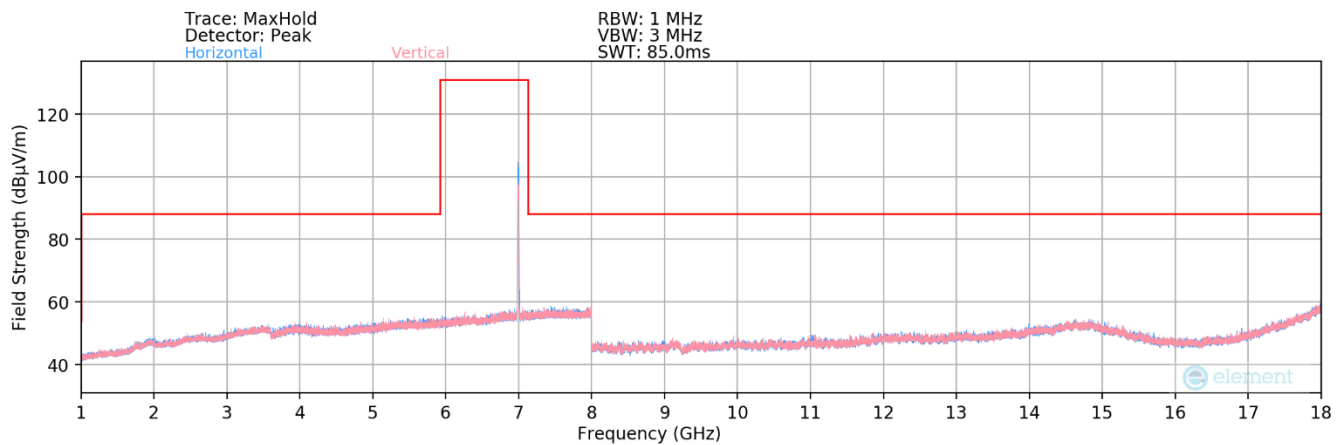


Plot 7-332. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 6 Ch. 105)

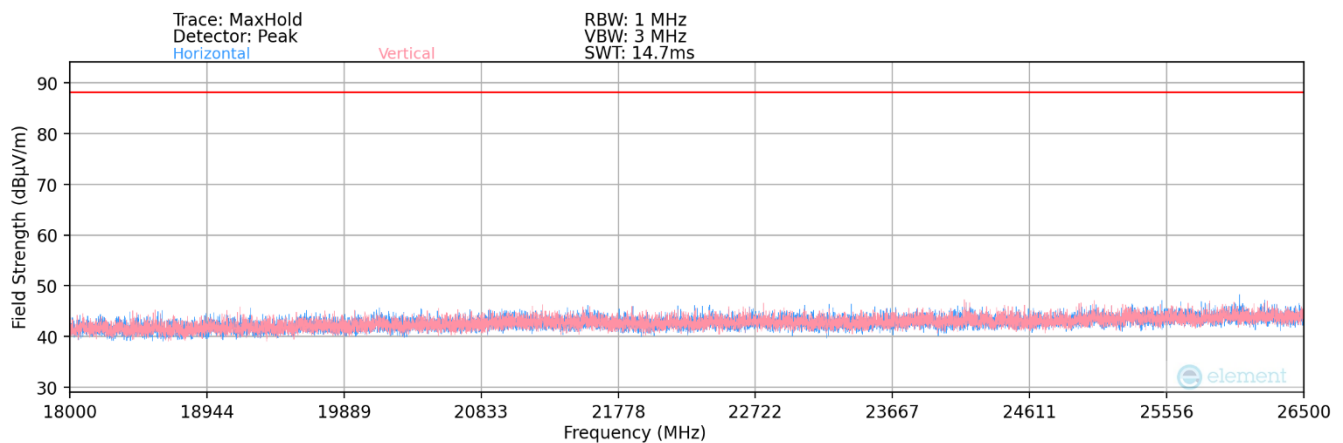
FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-333. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 7 Ch. 149)

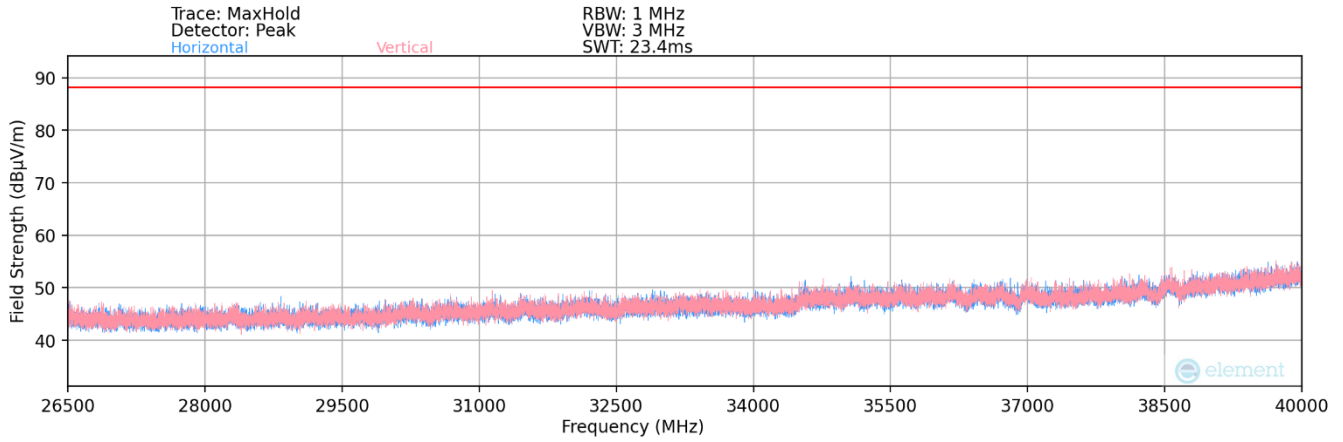


Plot 7-334. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – U Band 8 Ch. 209)



Plot 7-335. Radiated Spurious Plot 18GHz - 26.5GHz (802.11ax)

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-336. Radiated Spurious Plot 26.5GHz - 40GHz (802.11ax)

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2303200036-08.A3L	Test Dates: 04/03/2023 - 05/18/2023	EUT Type: Portable Tablet	Page 206 of 229



MIMO Radiated Spurious Emission Measurements – UNII Band 5

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5935MHz
 Channel: 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	V	-	-	-78.98	9.32	0.00	37.34	53.98	-16.64
* 11870.00	Peak	V	-	-	-68.01	9.32	0.00	48.31	73.98	-25.67
* 17805.00	Average	V	-	-	-76.73	15.72	0.00	45.99	53.98	-7.99
* 17805.00	Peak	V	-	-	-65.37	15.72	0.00	57.35	73.98	-16.63
* 23740.00	Average	V	-	-	-66.38	3.96	-9.54	35.03	53.98	-18.95
* 23740.00	Peak	V	-	-	-56.42	3.96	-9.54	45.00	73.98	-28.98
* 29675.00	Peak	V	-	-	-57.08	5.90	-9.54	46.29	68.20	-21.91

Table 7-12. Radiated Measurements MIMO

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

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 12350.00	Average	V	144	261	-74.43	9.60	0.00	42.17	53.98	-11.81
* 12350.00	Peak	V	144	261	-62.71	9.60	0.00	53.89	73.98	-20.09
* 18525.00	Average	V	-	-	-65.55	1.55	-9.54	33.46	53.98	-20.52
* 18525.00	Peak	V	-	-	-54.79	1.55	-9.54	44.22	73.98	-29.76
24700.00	Peak	V	-	-	-56.50	4.20	-9.54	45.16	68.20	-23.04
30875.00	Peak	V	-	-	-56.88	6.77	-9.54	47.35	68.20	-20.85

Table 7-13. Radiated Measurements MIMO

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		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	V	168	205	-53.83	9.64	0.00	62.81	68.20	-5.39
* 19245.00	Average	V	-	-	-65.69	2.35	-9.54	34.12	53.98	-19.86
* 19245.00	Peak	V	-	-	-55.70	2.35	-9.54	44.11	73.98	-29.87
25660.00	Peak	V	-	-	-55.66	4.41	-9.54	46.21	68.20	-21.99
32075.00	Peak	V	-	-	-56.62	7.43	-9.54	48.28	68.20	-19.92

Table 7-14. Radiated Measurements MIMO

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
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MIMO Radiated Spurious Emission Measurements – UNII Band 6

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6435MHz
 Channel: 97

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
12870.00	Peak	V	183	205	-55.05	10.05	0.00	62.00	68.20	-6.20
* 19305.00	Average	V	-	-	-65.87	2.13	-9.54	33.72	53.98	-20.26
* 19305.00	Peak	V	-	-	-55.90	2.13	-9.54	43.70	73.98	-30.28
25740.00	Peak	V	-	-	-56.01	4.51	-9.54	45.96	68.20	-22.24
32175.00	Peak	V	-	-	-56.94	7.53	-9.54	48.04	68.20	-20.16

Table 7-15. Radiated Measurements MIMO

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6475MHz
 Channel: 105

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
12950.00	Peak	V	173	206	-55.39	10.12	0.00	61.73	68.20	-6.47
* 19425.00	Average	V	-	-	-65.92	2.22	-9.54	33.76	53.98	-20.22
* 19425.00	Peak	V	-	-	-55.38	2.22	-9.54	44.31	73.98	-29.67
25900.00	Peak	V	-	-	-55.46	4.57	-9.54	46.58	68.20	-21.62
32375.00	Peak	V	-	-	-56.80	7.29	-9.54	47.96	68.20	-20.24

Table 7-16. Radiated Measurements MIMO

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		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: 6515MHz
 Channel: 113

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
13030.00	Peak	V	212	205	-56.16	10.12	0.00	60.96	68.20	-7.24
* 19545.00	Average	V	-	-	-65.71	2.37	-9.54	34.13	53.98	-19.85
* 19545.00	Peak	V	-	-	-56.14	2.37	-9.54	43.70	73.98	-30.28
26060.00	Peak	V	-	-	-55.95	4.80	-9.54	46.31	68.20	-21.89
32575.00	Peak	V	-	-	-55.53	6.85	-9.54	48.78	68.20	-19.42

Table 7-17. Radiated Measurements MIMO

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
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MIMO Radiated Spurious Emission Measurements – UNII Band 7

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

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
13070.00	Peak	V	216	206	-55.89	10.15	0.00	61.26	68.20	-6.94
* 19605.00	Average	V	-	-	-65.90	2.64	-9.54	34.21	53.98	-19.77
* 19605.00	Peak	V	-	-	-55.88	2.64	-9.54	44.22	73.98	-29.76
26140.00	Peak	V	-	-	-56.98	4.56	-9.54	45.03	68.20	-23.17
32675.00	Peak	V	-	-	-56.59	7.03	-9.54	47.90	68.20	-20.30

Table 7-18. Radiated Measurements MIMO

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6695MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 13390.00	Average	V	161	185	-68.39	10.35	0.00	48.96	53.98	-5.02
* 13390.00	Peak	V	161	185	-55.95	10.35	0.00	61.40	73.98	-12.58
* 20085.00	Average	V	-	-	-65.82	3.01	-9.54	34.65	53.98	-19.33
* 20085.00	Peak	V	-	-	-55.74	3.01	-9.54	44.73	73.98	-29.25
26780.00	Peak	V	-	-	-56.06	4.57	-9.54	45.97	68.20	-22.23
33475.00	Peak	V	-	-	-56.78	7.57	-9.54	48.24	68.20	-19.96

Table 7-19. Radiated Measurements MIMO

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 6695MHz
 Channel: 149

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]
51.94	Quasi-Peak	V	396	31	-97.07	14.20	24.13	40.00	-15.87
133.00	Quasi-Peak	V	-	-	-97.60	20.15	29.55	43.52	-13.97

Table 7-20. Radiated Measurements MIMO below 1GHz

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	V	178	146	-65.32	11.07	0.00	52.75	68.20	-15.45
* 20625.00	Average	V	-	-	-66.51	3.42	-9.54	34.38	53.98	-19.60
* 20625.00	Peak	V	-	-	-55.77	3.42	-9.54	45.12	73.98	-28.86
27500.00	Peak	V	-	-	-55.88	4.54	-9.54	46.12	68.20	-22.08
34375.00	Peak	V	-	-	-56.29	8.08	-9.54	49.25	68.20	-18.95

Table 7-21. Radiated Measurements MIMO

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
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MIMO Radiated Spurious Emission Measurements – UNII Band 8

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6895MHz
 Channel: 189

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
13790.00	Peak	V	201	187	-65.30	11.00	0.00	52.70	68.20	-15.50
* 20685.00	Average	V	-	-	-66.26	3.67	-9.54	34.87	53.98	-19.11
* 20685.00	Peak	V	-	-	-55.68	3.67	-9.54	45.45	73.98	-28.53
27580.00	Peak	V	-	-	-56.77	4.68	-9.54	45.37	68.20	-22.83
34475.00	Peak	V	-	-	-56.41	7.83	-9.54	48.87	68.20	-19.33

Table 7-22. Radiated Measurements MIMO

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6995MHz
 Channel: 209

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
13990.00	Peak	V	-	-	-64.76	11.26	0.00	53.50	68.20	-14.70
* 20985.00	Average	V	-	-	-66.50	3.59	-9.54	34.56	53.98	-19.42
* 20985.00	Peak	V	-	-	-56.26	3.59	-9.54	44.79	73.98	-29.19
27980.00	Peak	V	-	-	-56.34	5.05	-9.54	46.17	68.20	-22.03
34975.00	Peak	V	-	-	-55.17	8.24	-9.54	50.53	68.20	-17.67

Table 7-23. Radiated Measurements MIMO

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		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: 7115MHz
 Channel: 233

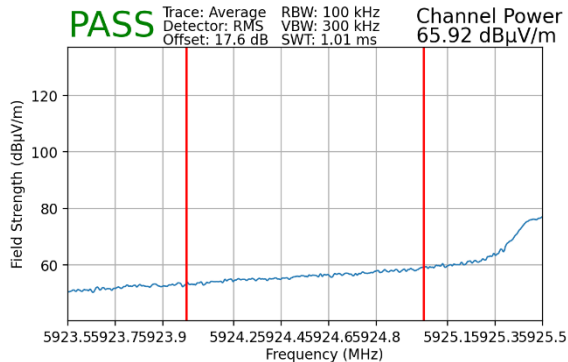
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
14230.00	Peak	V	214	209	-65.00	12.13	0.00	54.13	68.20	-14.07
* 21345.00	Average	V	-	-	-65.96	4.08	-9.54	35.58	53.98	-18.40
* 21345.00	Peak	V	-	-	-55.61	4.08	-9.54	45.93	73.98	-28.05
28460.00	Peak	V	-	-	-56.58	5.14	-9.54	46.02	68.20	-22.18
35575.00	Peak	V	-	-	-56.17	8.16	-9.54	49.45	68.20	-18.75

Table 7-24. Radiated Measurements MIMO

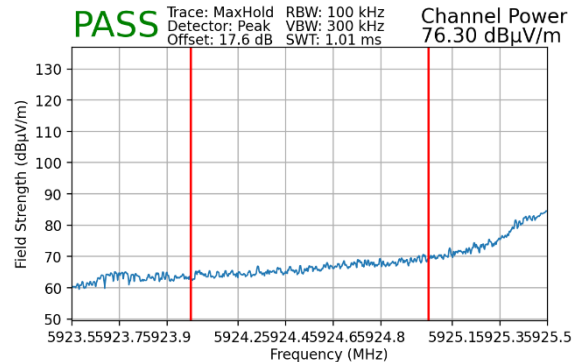
FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
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7.7.2 MIMO Radiated Band Edge Measurements (20MHz BW)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5935MHz
Channel:	2

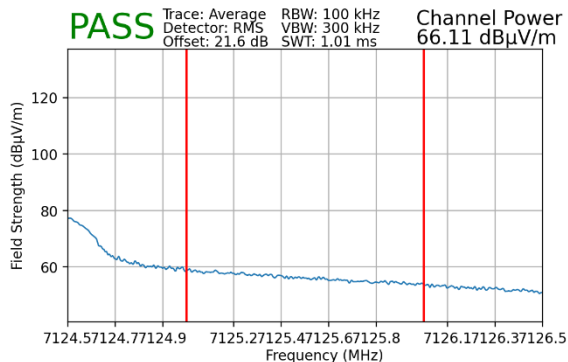


Plot 7-337. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)

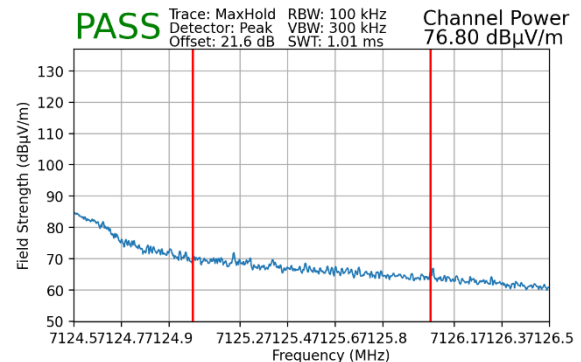


Plot 7-338. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	7115MHz
Channel:	233



Plot 7-339. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)

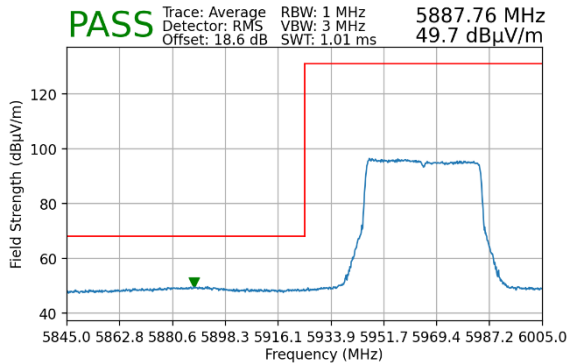


Plot 7-340. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)

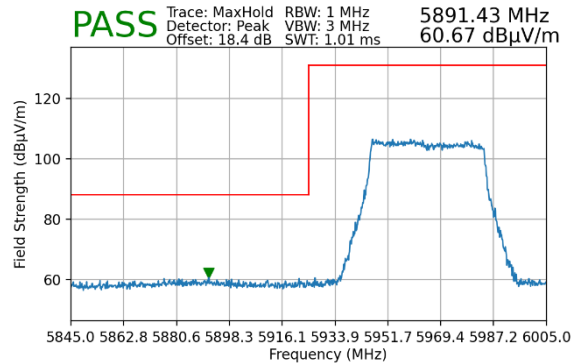
FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
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7.7.3 MIMO Radiated Band Edge Measurements (40MHz BW)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5965MHz
Channel:	3

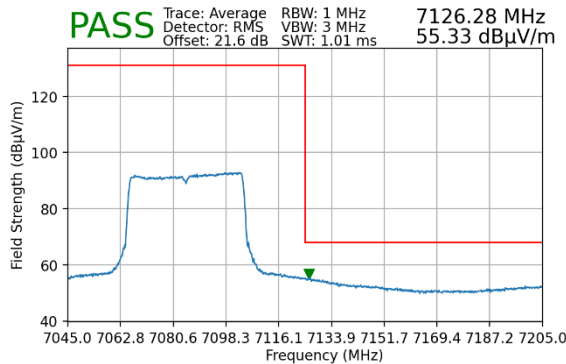


Plot 7-341. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)

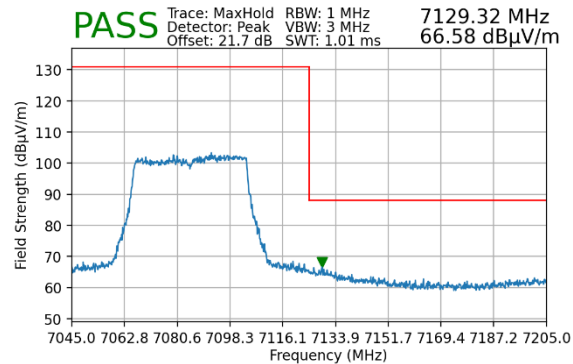


Plot 7-342. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	7085MHz
Channel:	227



Plot 7-343. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)

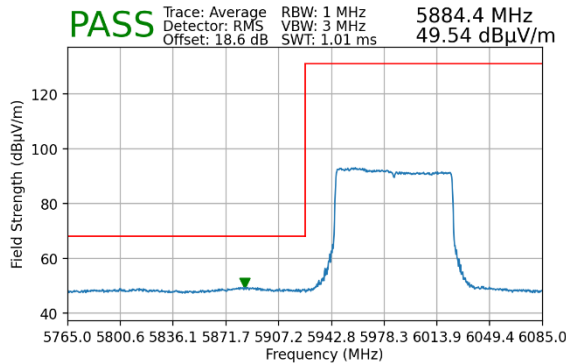


Plot 7-344. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)

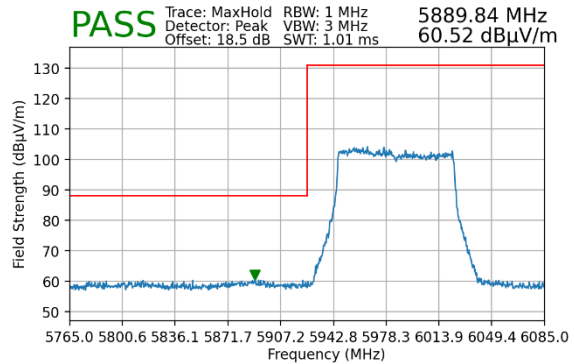
FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
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7.7.4 MIMO Radiated Band Edge Measurements (80MHz BW)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5985MHz
Channel:	7

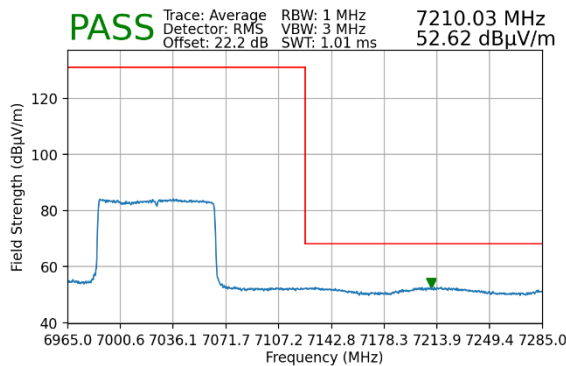


Plot 7-345. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)

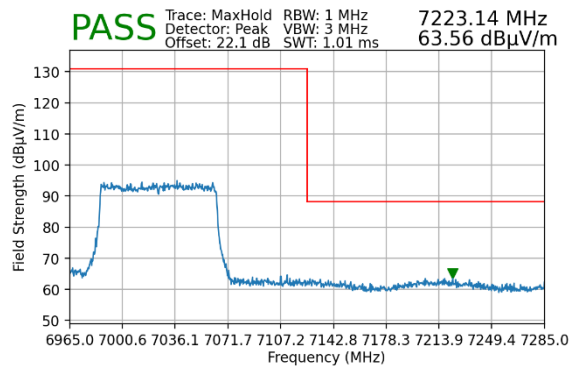


Plot 7-346. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	7025MHz
Channel:	215



Plot 7-347. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)

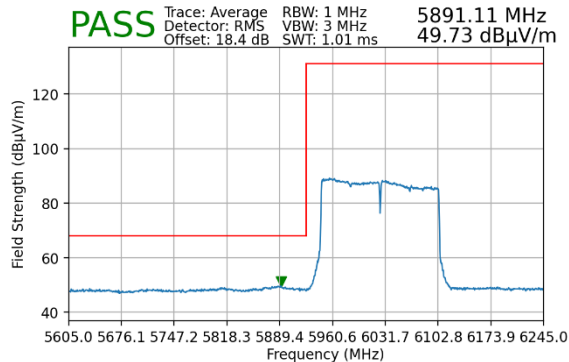


Plot 7-348. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)

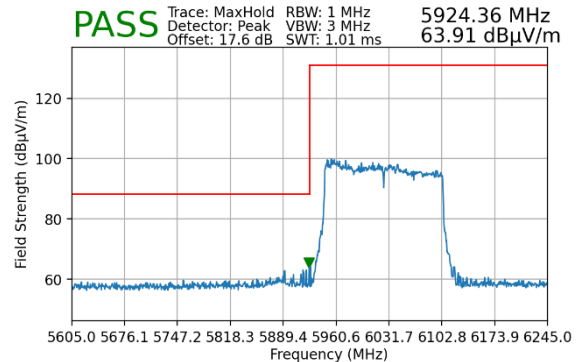
FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
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7.7.5 MIMO Radiated Band Edge Measurements (160MHz BW)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15

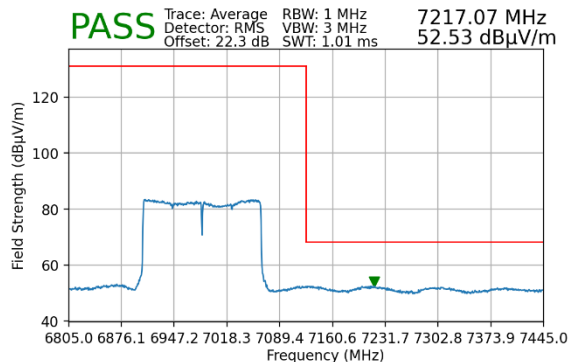


Plot 7-349. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)

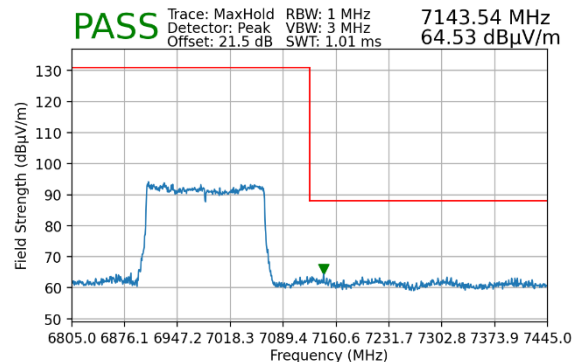


Plot 7-350. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6985MHz
Channel:	207



Plot 7-351. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)



Plot 7-352. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)

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7.8 Line Conducted Test Data

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst-case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207.

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

Table 7-25. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Section 6.2

Test Settings

Quasi-Peak Field Strength Measurements

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

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest.
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize.

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Test Setup

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

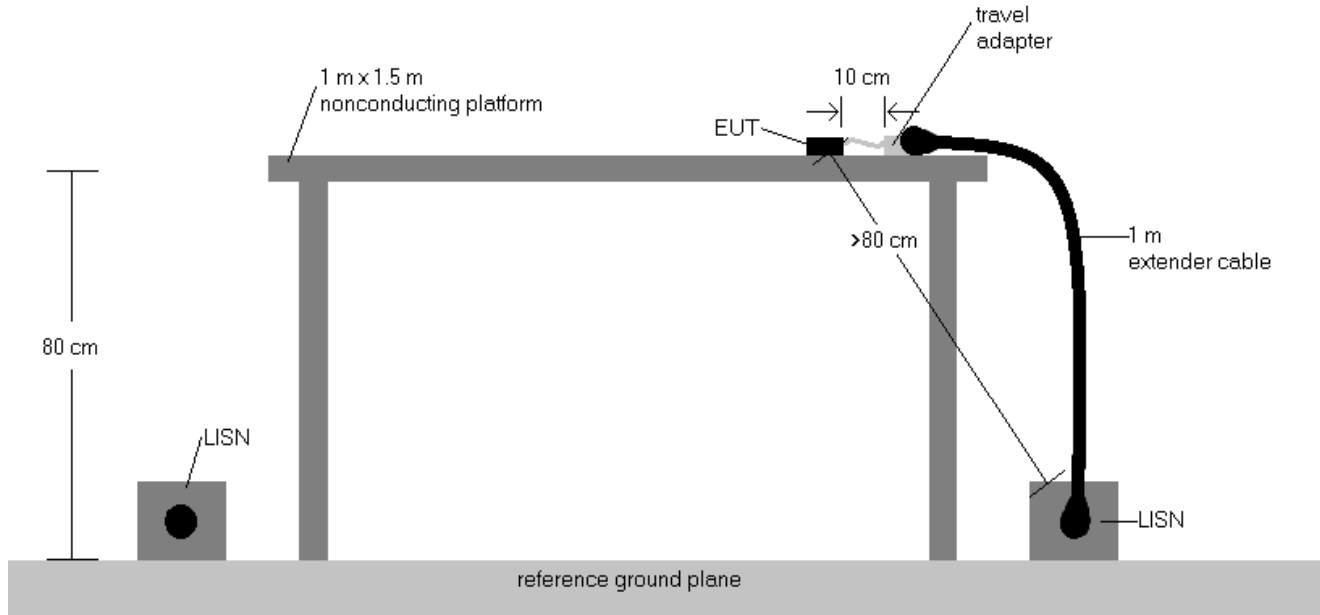
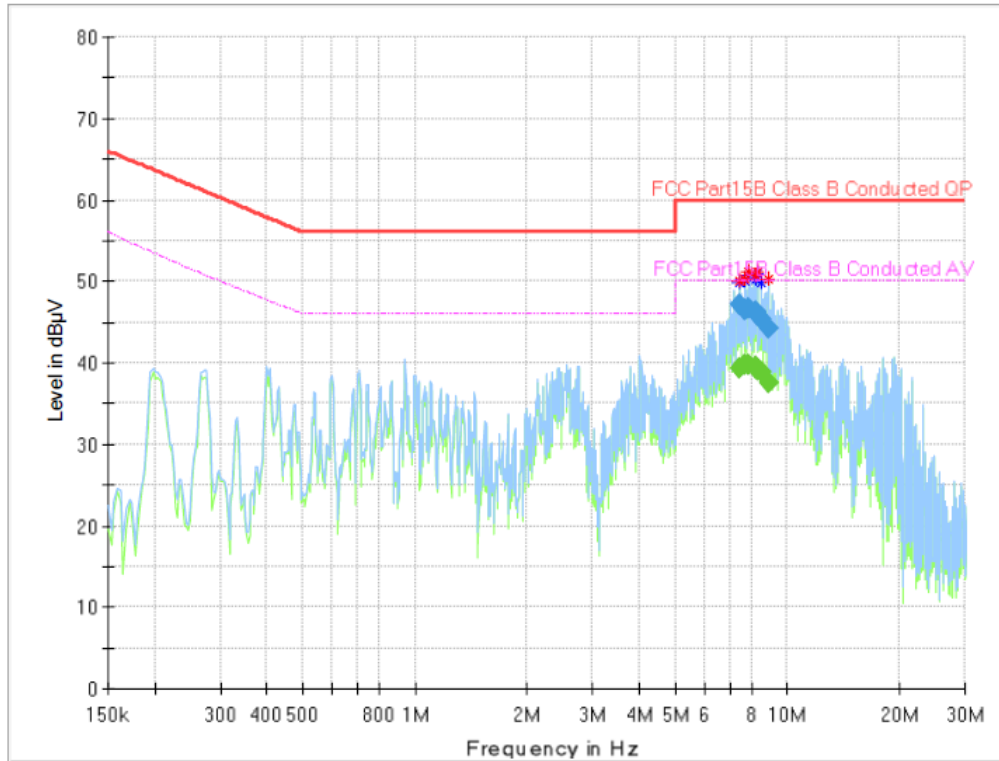


Figure 7-9. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated, and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz is specified in 15.207.
3. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5. $\text{Margin (dB)} = \text{QP/AV Limit (dB}\mu\text{V)} - \text{QP/AV Level (dB}\mu\text{V)}$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

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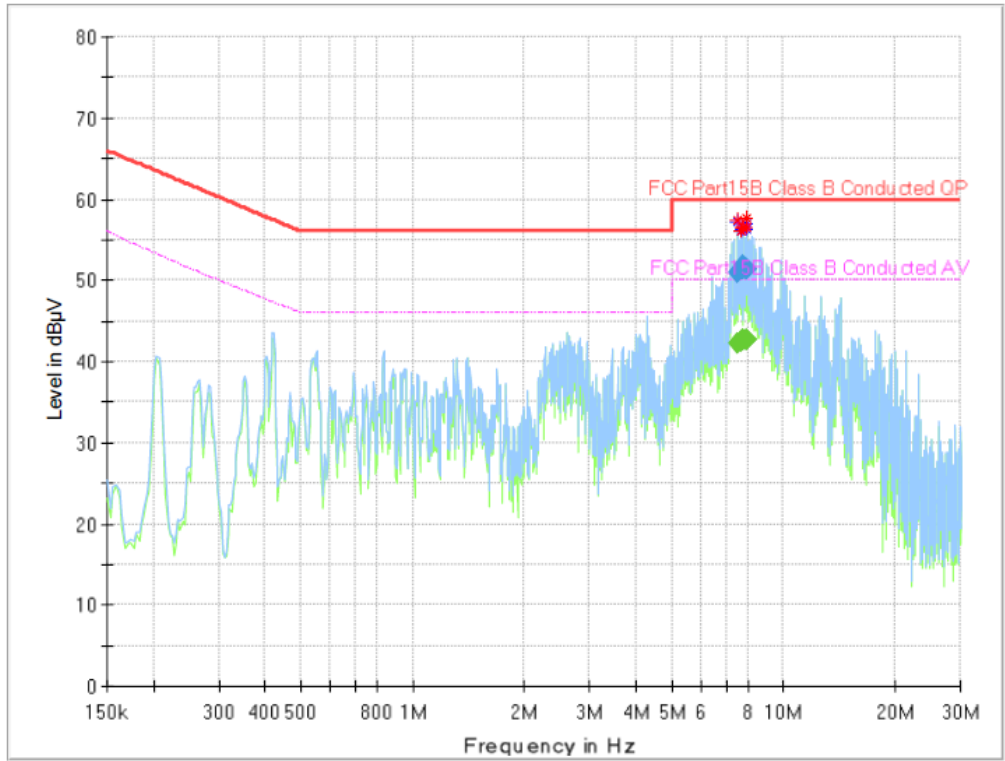


Plot 7-353. Line Conducted Plot with 802.11a UNII Band 5 (L1)

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
7.454295	---	39.43	50.00	10.57	1000.0	9.000	L1	10.1
7.454295	47.18	---	60.00	12.82	1000.0	9.000	L1	10.1
7.702050	---	39.78	50.00	10.22	1000.0	9.000	L1	10.1
7.702050	46.54	---	60.00	13.46	1000.0	9.000	L1	10.1
7.902045	---	39.86	50.00	10.14	1000.0	9.000	L1	10.1
7.902045	46.66	---	60.00	13.34	1000.0	9.000	L1	10.1
8.182635	---	39.48	50.00	10.52	1000.0	9.000	L1	10.1
8.182635	46.22	---	60.00	13.78	1000.0	9.000	L1	10.1
8.191590	---	39.36	50.00	10.64	1000.0	9.000	L1	10.1
8.191590	46.18	---	60.00	13.82	1000.0	9.000	L1	10.1
8.346810	---	39.01	50.00	10.99	1000.0	9.000	L1	10.1
8.346810	45.85	---	60.00	14.15	1000.0	9.000	L1	10.1
8.525910	---	38.78	50.00	11.22	1000.0	9.000	L1	10.1
8.525910	45.40	---	60.00	14.60	1000.0	9.000	L1	10.1
8.899035	---	37.44	50.00	12.56	1000.0	9.000	L1	10.1
8.899035	44.25	---	60.00	15.75	1000.0	9.000	L1	10.1

Table 7-26. Line Conducted Data with 802.11a UNII Band 5 (L1)

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
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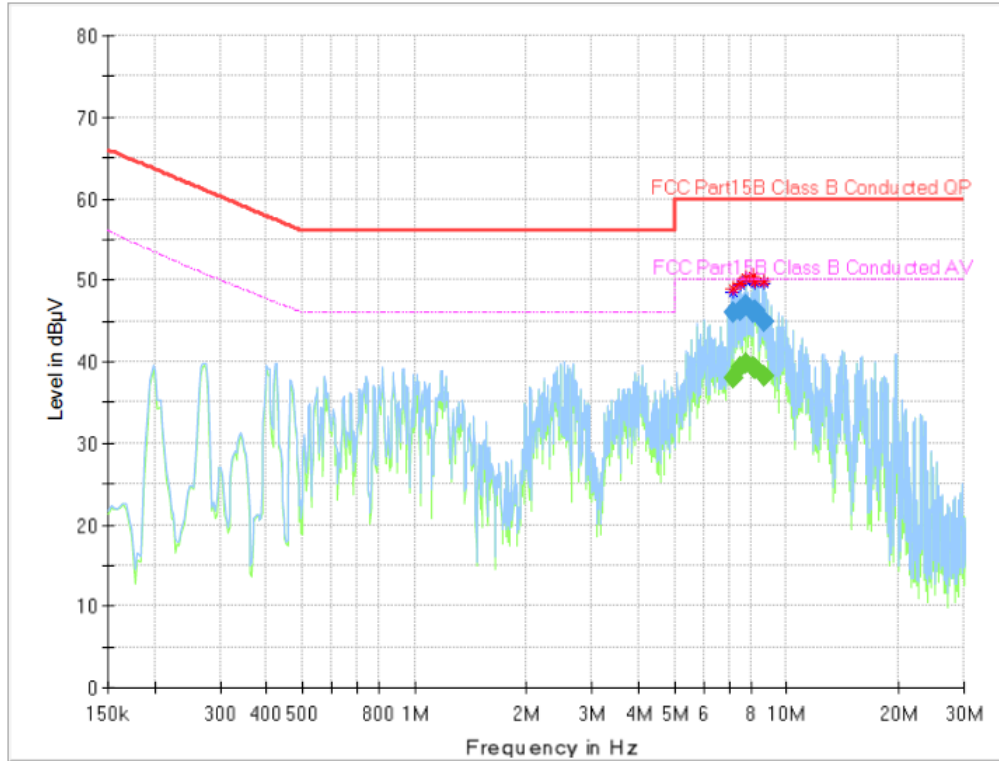


Plot 7-354. Line Conducted Plot with 802.11a UNII Band 5 (N)

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
7.490115	---	42.15	50.00	7.85	1000.0	9.000	N	10.1
7.490115	51.01	---	60.00	8.99	1000.0	9.000	N	10.1
7.693095	---	42.56	50.00	7.44	1000.0	9.000	N	10.1
7.693095	51.34	---	60.00	8.66	1000.0	9.000	N	10.1
7.755780	---	42.60	50.00	7.40	1000.0	9.000	N	10.1
7.755780	51.45	---	60.00	8.55	1000.0	9.000	N	10.1
7.794585	---	42.69	50.00	7.31	1000.0	9.000	N	10.1
7.794585	51.80	---	60.00	8.20	1000.0	9.000	N	10.1
7.931895	---	42.73	50.00	7.27	1000.0	9.000	N	10.1
7.931895	51.50	---	60.00	8.50	1000.0	9.000	N	10.1
7.955775	---	42.66	50.00	7.34	1000.0	9.000	N	10.1
7.955775	51.37	---	60.00	8.63	1000.0	9.000	N	10.1

Table 7-27. Line Conducted Data with 802.11a UNII Band 5 (N)

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
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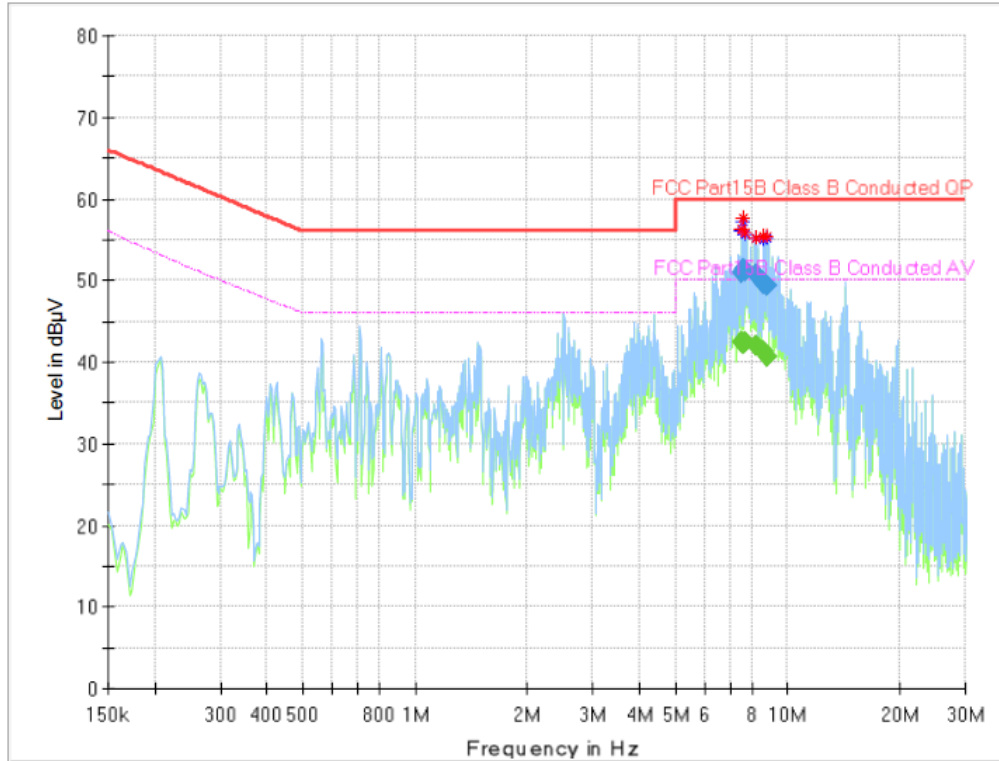


Plot 7-355. Line Conducted Plot with 802.11a UNII Band 6 (L1)

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
7.170720	---	37.88	50.00	12.12	1000.0	9.000	L1	10.1
7.170720	46.01	---	60.00	13.99	1000.0	9.000	L1	10.1
7.534890	---	39.24	50.00	10.76	1000.0	9.000	L1	10.1
7.534890	46.27	---	60.00	13.73	1000.0	9.000	L1	10.1
7.797570	---	39.68	50.00	10.32	1000.0	9.000	L1	10.1
7.797570	46.87	---	60.00	13.13	1000.0	9.000	L1	10.1
8.158755	---	39.27	50.00	10.73	1000.0	9.000	L1	10.1
8.158755	46.09	---	60.00	13.91	1000.0	9.000	L1	10.1
8.251290	---	39.18	50.00	10.83	1000.0	9.000	L1	10.1
8.251290	46.21	---	60.00	13.79	1000.0	9.000	L1	10.1
8.657250	---	38.25	50.00	11.75	1000.0	9.000	L1	10.1
8.657250	45.00	---	60.00	15.00	1000.0	9.000	L1	10.1

Table 7-28. Line Conducted Data with 802.11a UNII Band 6 (L1)

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
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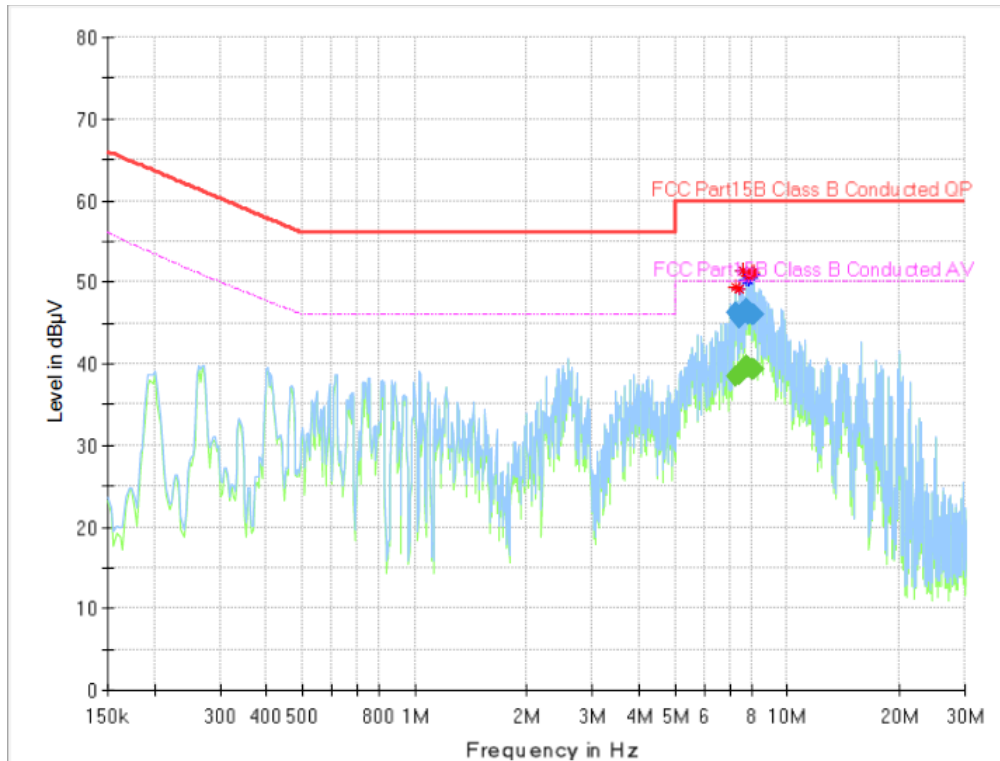


Plot 7-356. Line Conducted Plot with 802.11a UNII Band 6 (N)

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
7.555785	---	42.39	50.00	7.61	1000.0	9.000	N	10.1
7.555785	50.94	---	60.00	9.06	1000.0	9.000	N	10.1
7.615485	---	42.20	50.00	7.80	1000.0	9.000	N	10.1
7.615485	51.29	---	60.00	8.71	1000.0	9.000	N	10.1
7.722945	---	42.56	50.00	7.44	1000.0	9.000	N	10.1
7.722945	51.22	---	60.00	8.78	1000.0	9.000	N	10.1
8.254275	---	42.07	50.00	7.93	1000.0	9.000	N	10.1
8.254275	50.66	---	60.00	9.34	1000.0	9.000	N	10.1
8.609490	---	41.26	50.00	8.74	1000.0	9.000	N	10.1
8.609490	49.70	---	60.00	10.30	1000.0	9.000	N	10.1
8.764710	---	40.75	50.00	9.25	1000.0	9.000	N	10.2
8.764710	49.42	---	60.00	10.58	1000.0	9.000	N	10.2

Table 7-29. Line Conducted Data with 802.11a UNII Band 6 (N)

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
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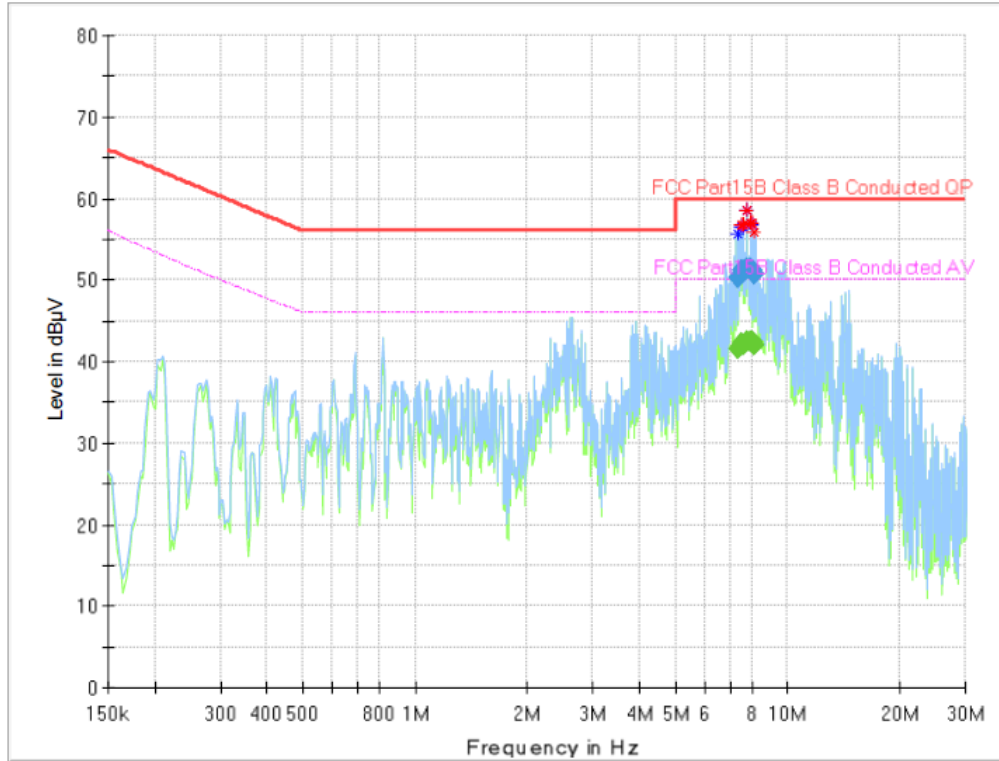


Plot 7-357. Line Conducted Plot with 802.11a UNII Band 7 (L1)

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
7.242360	---	38.36	50.00	11.64	1000.0	9.000	L1	10.1
7.242360	46.25	---	60.00	13.75	1000.0	9.000	L1	10.1
7.409520	---	38.65	50.00	11.35	1000.0	9.000	L1	10.1
7.409520	45.65	---	60.00	14.35	1000.0	9.000	L1	10.1
7.594590	---	39.39	50.00	10.61	1000.0	9.000	L1	10.1
7.594590	46.30	---	60.00	13.70	1000.0	9.000	L1	10.1
7.797570	---	39.74	50.00	10.26	1000.0	9.000	L1	10.1
7.797570	46.77	---	60.00	13.23	1000.0	9.000	L1	10.1
7.881150	---	39.51	50.00	10.49	1000.0	9.000	L1	10.1
7.881150	46.13	---	60.00	13.87	1000.0	9.000	L1	10.1
8.075175	---	39.39	50.00	10.61	1000.0	9.000	L1	10.1
8.075175	46.00	---	60.00	14.00	1000.0	9.000	L1	10.1
8.110995	---	39.39	50.00	10.61	1000.0	9.000	L1	10.1
8.110995	46.03	---	60.00	13.97	1000.0	9.000	L1	10.1

Table 7-30. Line Conducted Data with 802.11a UNII Band 7 (L1)

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
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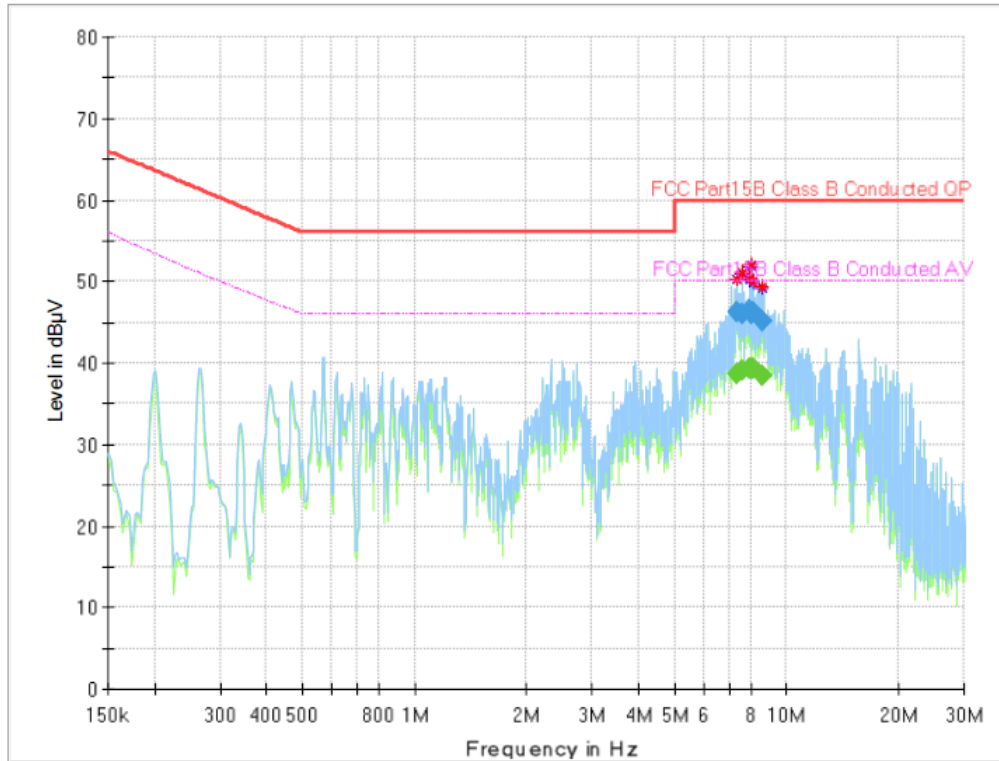


Plot 7-358. Line Conducted Plot with 802.11a UNII Band 7 (N)

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
7.349820	---	41.51	50.00	8.49	1000.0	9.000	N	10.1
7.349820	50.30	---	60.00	9.70	1000.0	9.000	N	10.1
7.552800	---	42.18	50.00	7.82	1000.0	9.000	N	10.1
7.552800	51.11	---	60.00	8.89	1000.0	9.000	N	10.1
7.609515	---	42.11	50.00	7.89	1000.0	9.000	N	10.1
7.609515	51.15	---	60.00	8.85	1000.0	9.000	N	10.1
7.752795	---	42.44	50.00	7.56	1000.0	9.000	N	10.1
7.752795	51.36	---	60.00	8.64	1000.0	9.000	N	10.1
7.928910	---	42.48	50.00	7.52	1000.0	9.000	N	10.1
7.928910	51.41	---	60.00	8.59	1000.0	9.000	N	10.1
8.003535	---	42.36	50.00	7.64	1000.0	9.000	N	10.1
8.003535	51.26	---	60.00	8.74	1000.0	9.000	N	10.1
8.179650	---	42.11	50.00	7.89	1000.0	9.000	N	10.1
8.179650	50.66	---	60.00	9.34	1000.0	9.000	N	10.1

Table 7-31. Line Conducted Data with 802.11a UNII Band 7 (N)

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
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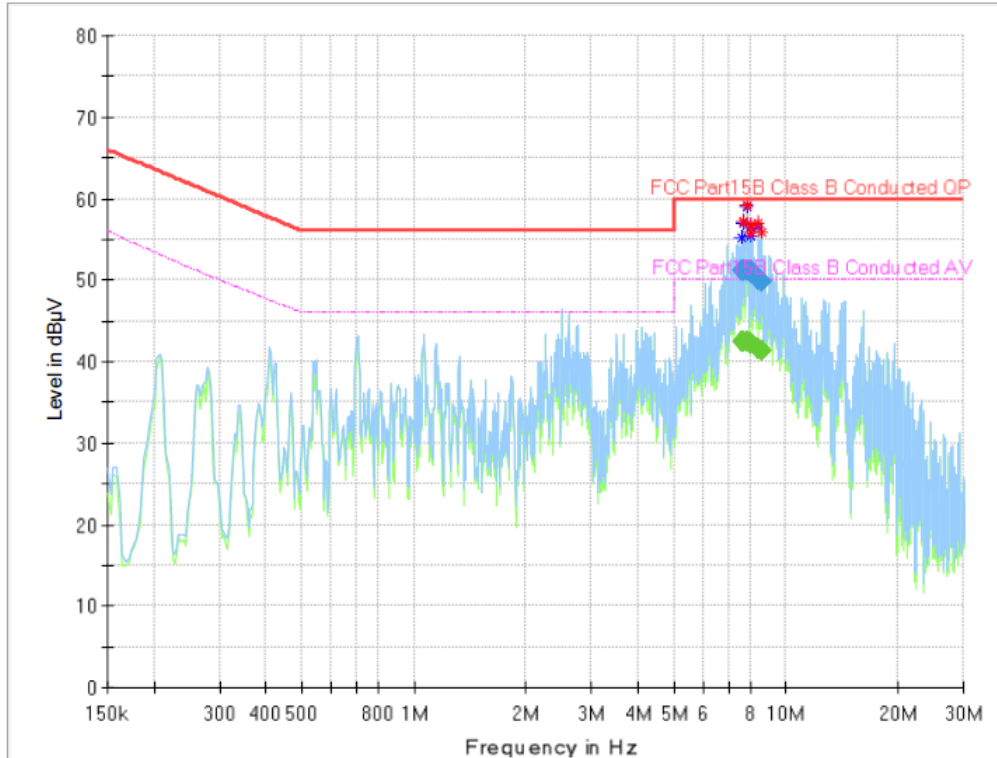


Plot 7-359. Line Conducted Plot with 802.11a UNII Band 8 (L1)

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
7.322955	---	38.74	50.00	11.26	1000.0	9.000	L1	10.1
7.322955	46.24	---	60.00	13.76	1000.0	9.000	L1	10.1
7.621455	---	39.19	50.00	10.81	1000.0	9.000	L1	10.1
7.621455	46.03	---	60.00	13.97	1000.0	9.000	L1	10.1
7.952790	---	39.43	50.00	10.57	1000.0	9.000	L1	10.1
7.952790	46.37	---	60.00	13.63	1000.0	9.000	L1	10.1
8.015475	---	39.33	50.00	10.67	1000.0	9.000	L1	10.1
8.015475	46.05	---	60.00	13.95	1000.0	9.000	L1	10.1
8.119950	---	39.35	50.00	10.65	1000.0	9.000	L1	10.1
8.119950	46.18	---	60.00	13.82	1000.0	9.000	L1	10.1
8.636355	---	38.37	50.00	11.63	1000.0	9.000	L1	10.1
8.636355	45.14	---	60.00	14.86	1000.0	9.000	L1	10.1

Table 7-32. Line Conducted Data with 802.11a UNII Band 8 (L1)

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2303200036-08.A3L	Test Dates: 04/03/2023 - 05/18/2023	EUT Type: Portable Tablet	Page 227 of 229



Plot 7-360. Line Conducted Plot with 802.11a UNII Band 8 (N)

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
7.642350	---	42.50	50.00	7.50	1000.0	9.000	N	10.1
7.642350	51.10	---	60.00	8.90	1000.0	9.000	N	10.1
7.719960	---	42.43	50.00	7.57	1000.0	9.000	N	10.1
7.719960	51.27	---	60.00	8.73	1000.0	9.000	N	10.1
7.860255	---	42.48	50.00	7.52	1000.0	9.000	N	10.1
7.860255	51.21	---	60.00	8.79	1000.0	9.000	N	10.1
8.015475	---	42.24	50.00	7.76	1000.0	9.000	N	10.1
8.015475	51.07	---	60.00	8.93	1000.0	9.000	N	10.1
8.069205	---	42.29	50.00	7.71	1000.0	9.000	N	10.1
8.069205	50.98	---	60.00	9.02	1000.0	9.000	N	10.1
8.457255	---	41.54	50.00	8.46	1000.0	9.000	N	10.1
8.457255	50.00	---	60.00	10.00	1000.0	9.000	N	10.1
8.585610	---	41.29	50.00	8.71	1000.0	9.000	N	10.1
8.585610	49.84	---	60.00	10.16	1000.0	9.000	N	10.1

Table 7-33. Line Conducted Data with 802.11a UNII Band 8 (N)

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Tablet FCC: A3LSMX910** is in compliance with FCC Part Subpart E (15.407) of the FCC rules for operation as a client device and with RSS-248 of the ISED Canada rules.

FCC ID: A3LSMX910 IC: 649E-SMX910	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2303200036-08.A3L	Test Dates: 04/03/2023 - 05/18/2023	EUT Type: Portable Tablet	Page 229 of 229