

WaveLynx Technologies Corporation

REVISED EMC TEST REPORT TO 111609-53

**RFID Access Control Reader, APEX
Model: AX-25***

*(See Appendix A for Manufacturers Declaration)

Tested to The Following Standards:

FCC Part 15 Subpart C Section(s)

**15.207 & 15.247
(DTS 2400-2483.5 MHz)**

Report No.: 111609-53A

Date of issue: November 24, 2025



Test Certificate # 803.01

This test report bears the accreditation symbol indicating that the testing performed herein meets the test and reporting requirements of ISO/IEC 17025 under the applicable scope of testing for CKC Laboratories, Inc.

We strive to create long-term, trust based relationships by providing sound, adaptive, customer first testing services. We embrace each of our customers' unique EMC challenges, not as an interruption to set processes, but rather as the reason we are in business.

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Administrative Information

Test Report Information

REPORT PREPARED FOR:

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Representative: Daniel Field
Customer Reference Number: PO575

REPORT PREPARED BY:

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Project Number: 111609

DATE OF EQUIPMENT RECEIPT:

July 22, 2025

DATE(S) OF TESTING:

July 30, 2025 and August 1, 20, 21, 22, and 28, 2025

Revision History

Original: Testing of the RFID Access Control Reader, APEX, Model: AX-25 to FCC Part 15 Subpart C Section(s) 15.207 & 15.247 (DTS 2400-2483.5 MHz).

Revision A: To update and include the modification statement and to update dates, General Product Information, and Radiated Spurious Emissions and AC Conducted Emissions data.

Report Authorization

The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the equipment provided by the client, tested in the agreed upon operational mode(s) and configuration(s) as identified herein. Compliance assessment remains the client's responsibility. This report may not be used to claim product endorsement by A2LA or any government agencies. This test report has been authorized for release under quality control from CKC Laboratories, Inc.



Steve Behm
Director of Quality Assurance & Engineering Services
CKC Laboratories, Inc.

Test Facility Information



Our laboratories are configured to effectively test a wide variety of product types. CKC utilizes first class test equipment, anechoic chambers, data acquisition and information services to create accurate, repeatable and affordable test results.

TEST LOCATION(S):
CKC Laboratories, Inc.
1120 Fulton Place
Fremont, CA 94539

Software Versions

CKC Laboratories Proprietary Software	Version
EMITest Emissions	5.03.20

Site Registration & Accreditation Information

Location	*NIST CB #	FCC	Canada	Japan
Canyon Park, Bothell, WA	US0103	US1024	3082C	A-0136
Brea, CA	US0103	US1024	3082D	A-0136
Fremont, CA	US0103	US1024	3082B	A-0136
Mariposa, CA	US0103	US1024	3082A	A-0136

*CKC's list of NIST designated countries can be found at: <https://standards.gov/cabs/designations.html>

Summary of Results

Standard / Specification: FCC Part 15 Subpart C - 15.247 (DTS 2400-2483.5 MHz)

Test Procedure	Description	Modifications	Results
15.247(a)(2)	6dB Bandwidth	NA	Pass
15.247(b)(3)	Output Power	NA	Pass
15.247(e)	Power Spectral Density	NA	Pass
15.247(d)	RF Conducted Emissions & Band Edge	NA	Pass
15.247(d)	Radiated Emissions & Band Edge	Mod. #1	Pass
15.207	AC Conducted Emissions	NA	Pass

NA = Not Applicable

ISO/IEC 17025 Decision Rule

The equipment sample utilized for testing is selected by the manufacturer. The declaration of pass or fail herein is a binary statement for simple acceptance rule (ILAC G8) based upon assessment to the specification(s) listed above, without consideration of measurement uncertainties. For performance related tests, equipment was monitored for specified criteria identified in that section of testing.

Modifications During Testing

This list is a summary of the modifications made to the equipment during testing.

Summary of Conditions

Modification #1 (9/25/2025): Layer of copper tape added to the AX-25 circuit boards.

NOTE: Testing was not performed with noted modifications. Modification represents final manufacturing configuration. All testing was performed on an unmodified unit, then the modification was applied, and transmitter frequencies were spot checked to verify equivalency with pre-modification measurements. Fundamental power and spurious emissions were found to be within 3dB.

Modifications listed above must be incorporated into all production units.

Conditions During Testing

This list is a summary of the conditions noted to the equipment during testing.

Summary of Conditions

Emission profile of the EUT rotated along three orthogonal axis was investigated. Recorded data represent worse case emission

Equipment Under Test (EUT)

During testing, numerous configurations may have been utilized. The configurations listed below support compliance to the standard(s) listed in the Summary of Results section.

Configuration 1

Equipment Tested:

Device	Manufacturer	Model #	S/N
RFID Access Control Reader, APEX	WaveLynx Technologies Corporation	AX-25	AXR-1U-C-1-5D

Support Equipment:

Device	Manufacturer	Model #	S/N
Digital Power Supply	Korad	KA 3005D	202011032416

Configuration 3

Equipment Tested:

Device	Manufacturer	Model #	S/N
RFID Access Control Reader, APEX	WaveLynx Technologies Corporation	AX-25	SPECTRUM

Support Equipment:

Device	Manufacturer	Model #	S/N
Digital Power Supply	Korad	KA 3005D	202011032416

General Product Information:

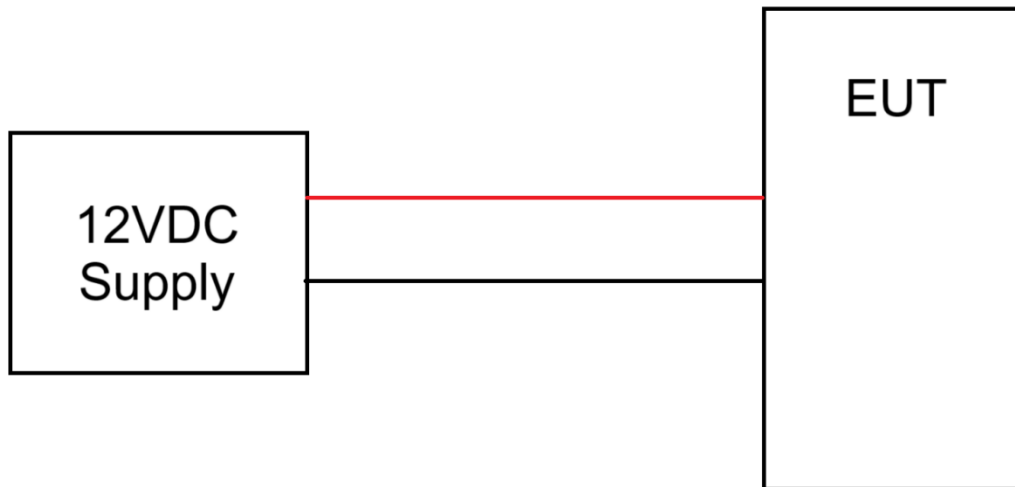
Description of EUT	
RFID Access Control Reader	
Product Information	Manufacturer-Provided Details
Operating Frequencies Tested:	2.402GHz, 2.426GHz, 2.48GHz
Equipment Type:	Stand-Alone Equipment
Type of Wideband System:	DTS
Maximum Duty Cycle:	EUT is placed into a testing mode with 100% transmission
Modulation Type(s):	GFSK
Number of TX Chains:	1
Beamforming Type:	N/A
Antenna Type(s) and Gain:	Chip Antenna (AANI-CH-0070) Peak Gain: 2.8dBi
Antenna Connection Type:	Integral (External connector provided to facilitate testing)
Nominal Input Voltage:	12VDC
Firmware / Software Version(s):	5.1.8
Firmware / Software Description:	Standard Apex Firmware The middle channel, defined by the customer as 2426 MHz, was chosen due to its having the highest power level within the mid-band range.
Firmware / Software Setting(s):	N/A
Tune-up or Adjustment(s):	N/A
The validity of results is dependent on the stated product details, the accuracy of which the manufacturer assumes full responsibility.	

EUT and Accessory Photo(s)



Block Diagram of Test Setup(s)

Config#	Setup Description of Block Diagram
1/3	EUT is powered by a 12VDC supply. Tested standalone



FCC Part 15 Subpart C

15.247(a)(2) 6dB Bandwidth

Test Setup/Conditions			
Test Location:	Fremont Chamber 3	Test Engineer:	Jonathan Wharton
Test Method:	ANSI C63.10 (2020), KDB 558074	Test Date(s):	7/23/2025
Configuration:	1		
Test Setup:	Conducted Antenna Port No additional cables/attenuators were used.		

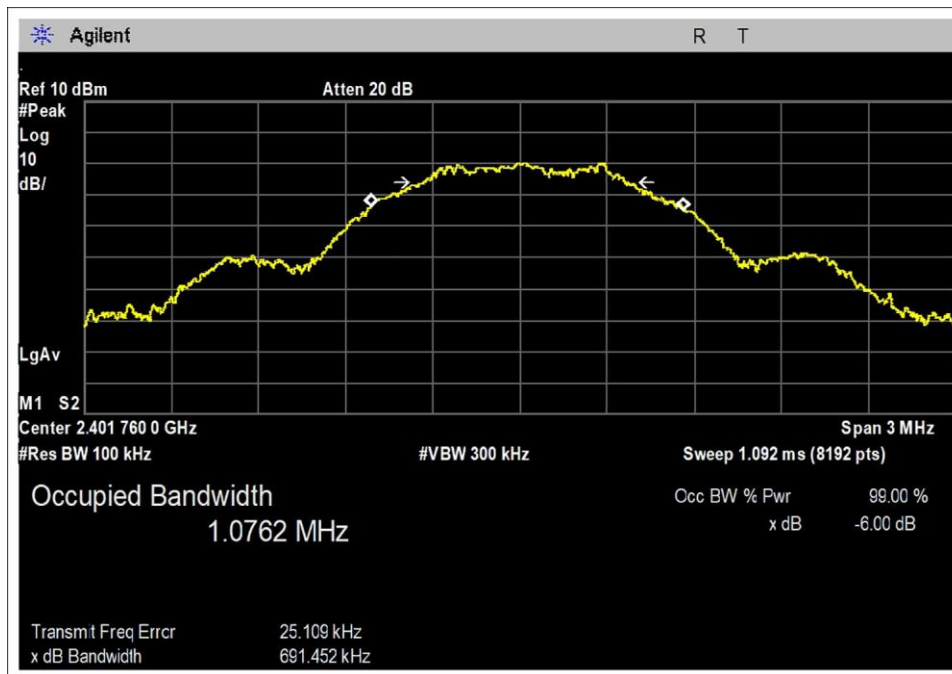
Environmental Conditions			
Temperature (°C)	23.1	Relative Humidity (%):	43

Test Equipment					
Asset#	Description	Manufacturer	Model	Cal Date	Cal Due
02660	Spectrum Analyzer	Agilent	E4446A	1/7/2025	1/7/2027

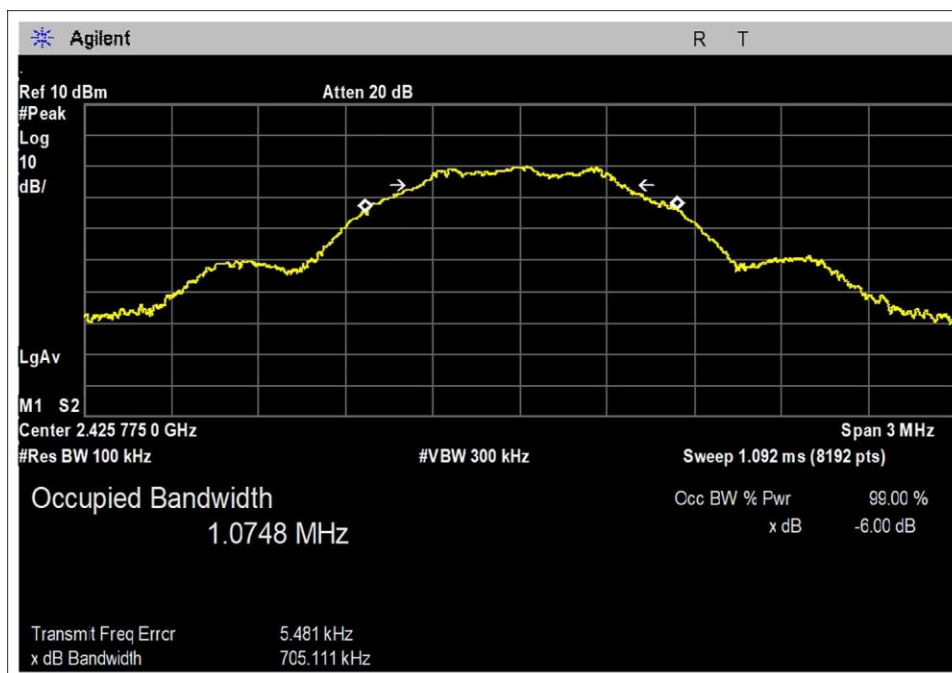
Test Data Summary					
Frequency (MHz)	Antenna Port	Modulation	Measured (kHz)	Limit (kHz)	Results
2402	1	GFSK 1MHz	691.5	≥500	Pass
2426	1	GFSK 1MHz	705.1	≥500	Pass
2480	1	GFSK 1MHz	674.5	≥500	Pass
2402	1	GFSK 2MHz	1135	≥500	Pass
2426	1	GFSK 2MHz	1127	≥500	Pass
2480	1	GFSK 2MHz	1060	≥500	Pass

Plot(s)

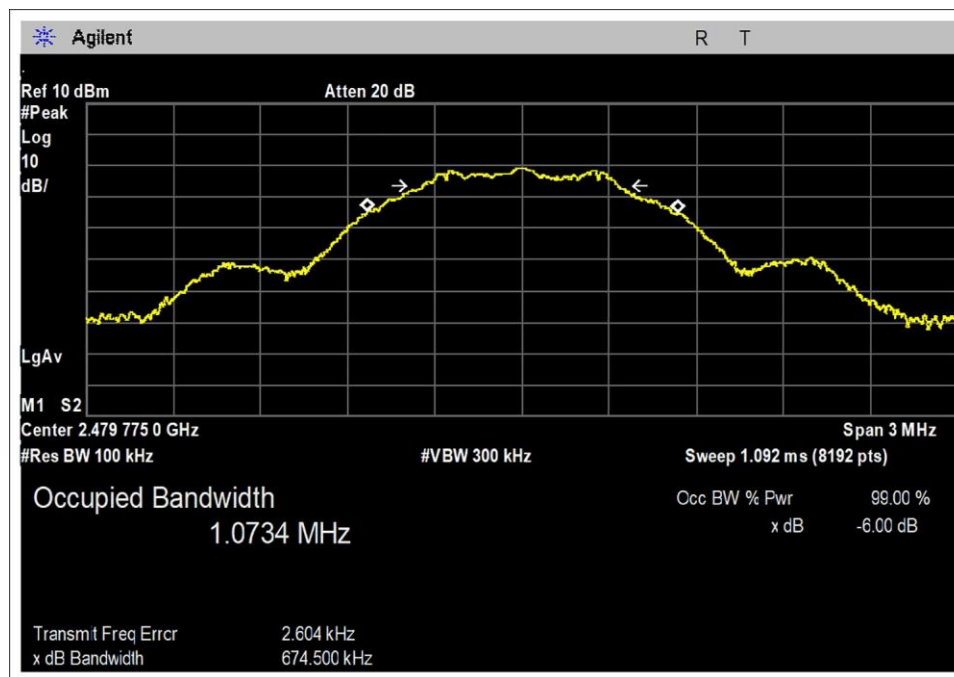
1MHz



Low Channel

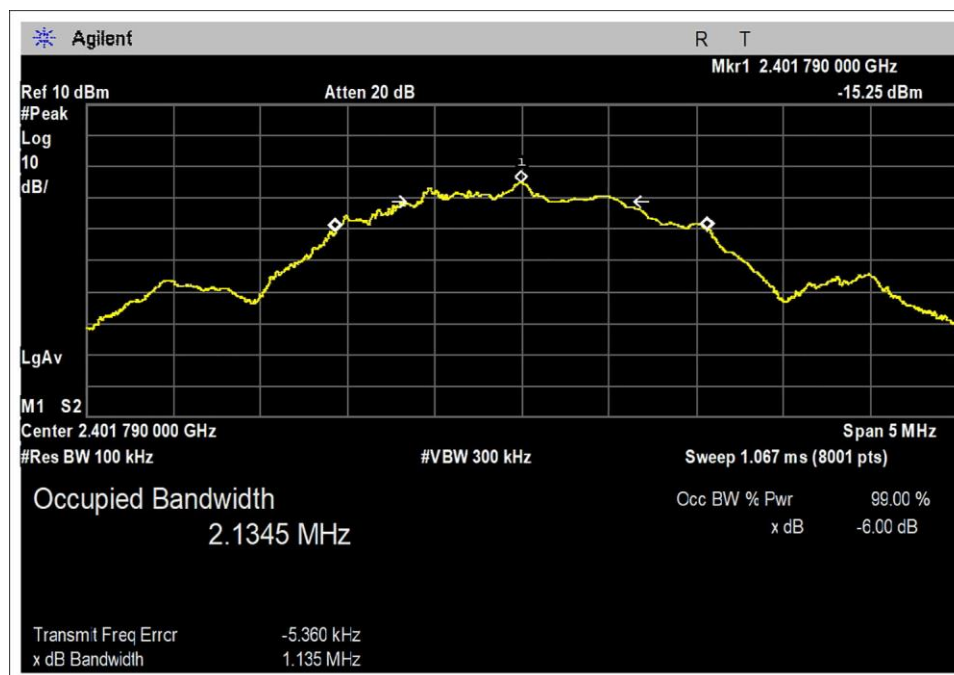


Middle Channel

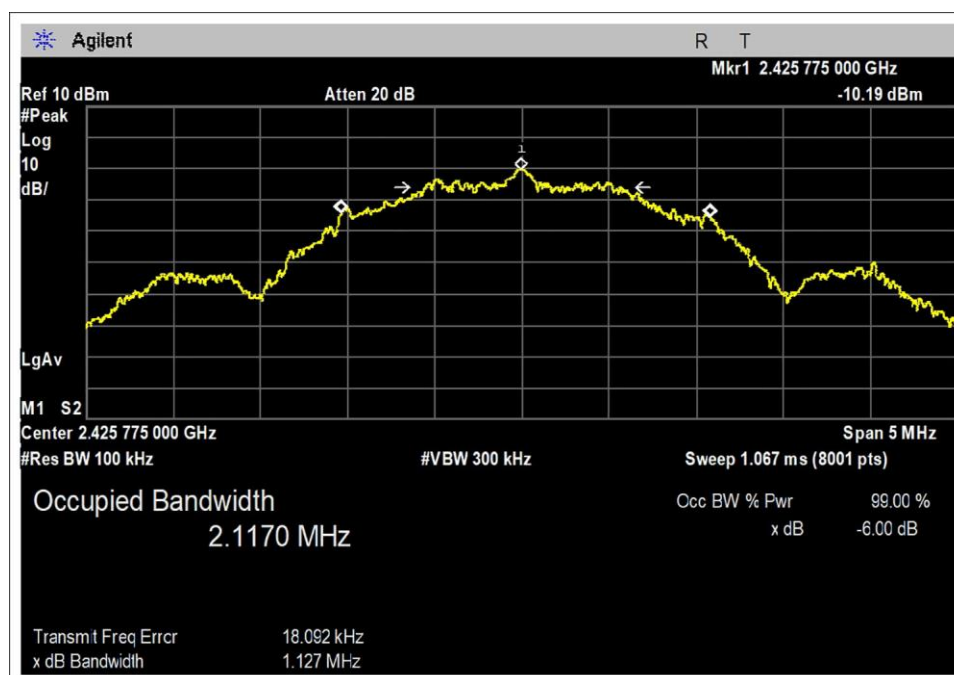


High Channel

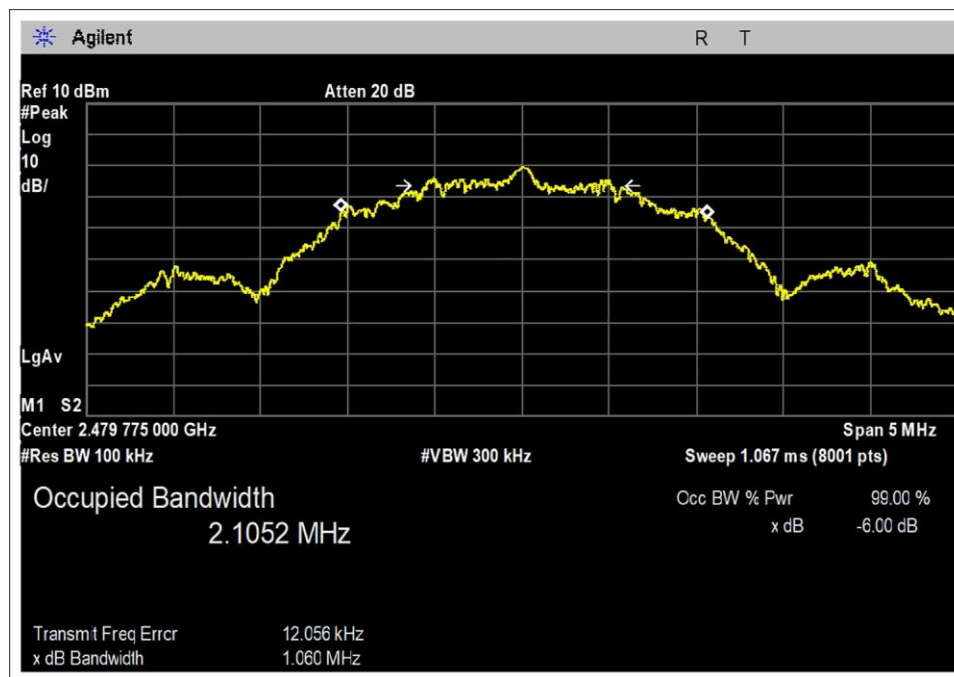
2MHz



Low Channel

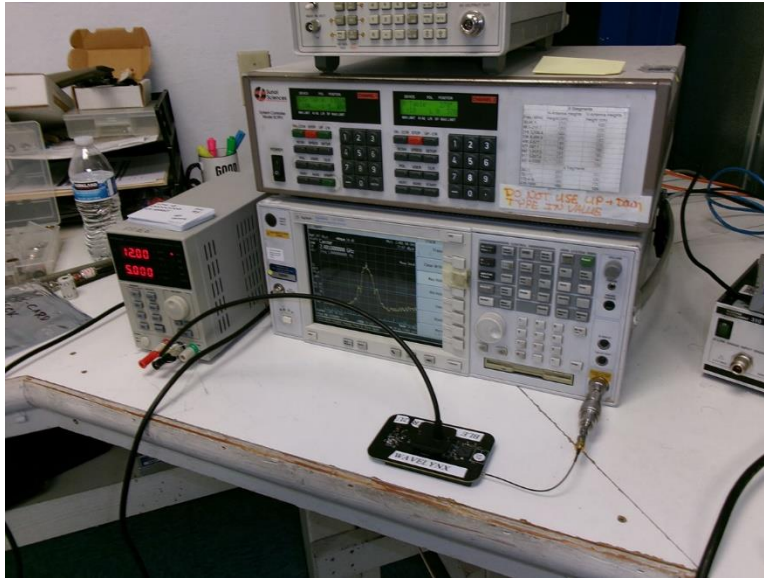


Middle Channel



High Channel

Test Setup Photo(s)



15.247(b)(3) Output Power

Test Setup/Conditions			
Test Location:	Fremont Chamber 3	Test Engineer:	Jonathan Wharton
Test Method:	ANSI C63.10 (2020), KDB 558074	Test Date(s):	7/23/2025
Configuration:	1		
Test Setup:	Conducted Antenna Port		
	No additional cables/attenuators were used.		

Environmental Conditions			
Temperature (°C)	23.1	Relative Humidity (%):	43

Test Equipment					
Asset#	Description	Manufacturer	Model	Cal Date	Cal Due
02660	Spectrum Analyzer	Agilent	E4446A	1/7/2025	1/7/2027

Test Data Summary - Voltage Variations					
Frequency (MHz)	Modulation / Ant Port	V _{Minimum} (dBm)	V _{Nominal} (dBm)	V _{Maximum} (dBm)	Max Deviation from V _{Nominal} (dB)
2402	GFSK 1MHz	-9.08	-8.81	-10.15	1.34
2426	GFSK 1MHz	-9.45	-9.86	-9.74	0.32
2480	GFSK 1MHz	-9.53	-10.07	-9.72	0.54
2402	GFSK 2MHz	-9.01	-8.67	-9.87	1.2
2426	GFSK 2MHz	-8.97	-9.15	-8.68	0.47
2480	GFSK 2MHz	-9.82	-10.23	-10.11	0.41

Test performed using operational mode with the highest output power, representing worst case.

Parameter Definitions:

Measurements performed at input voltage according to manufacturer specification.

Parameter	Value
V _{Nominal} :	12 VDC
V _{Minimum} :	4.25 VDC
V _{Maximum} :	27.6 VDC

Test Data Summary - RF Conducted Measurement							
Measurement Option: RBW > DTS Bandwidth							
Frequency (MHz)	Modulation	Ant. Type / Gain (dBi)	RF Conducted (dBm)		EIRP (dBm)		Results
			Measured	Limit	Calculated	Limit	
2402	GFSK 1MHz	Integral / 2.8	-8.81	≤30	-6.01	≤36	Pass
2426	GFSK 1MHz	Integral / 2.8	-9.86	≤30	-7.06	≤36	Pass
2480	GFSK 1MHz	Integral / 2.8	-10.07	≤30	-7.27	≤36	Pass
2402	GFSK 2MHz	Integral / 2.8	-8.67	≤30	-5.87	≤36	Pass
2426	GFSK 2MHz	Integral / 2.8	-9.15	≤30	-6.35	≤36	Pass
2480	GFSK 2MHz	Integral / 2.8	-10.23	≤30	-7.43	≤36	Pass

EIRP is calculated as RF conducted power (dBm) + antenna gain (dBi)

For fixed point-to-point antennas, the limit is calculated in accordance with 15.247(c)(1):

$$Limit = 30 - Roundup\left(\frac{G-6}{3}\right)$$

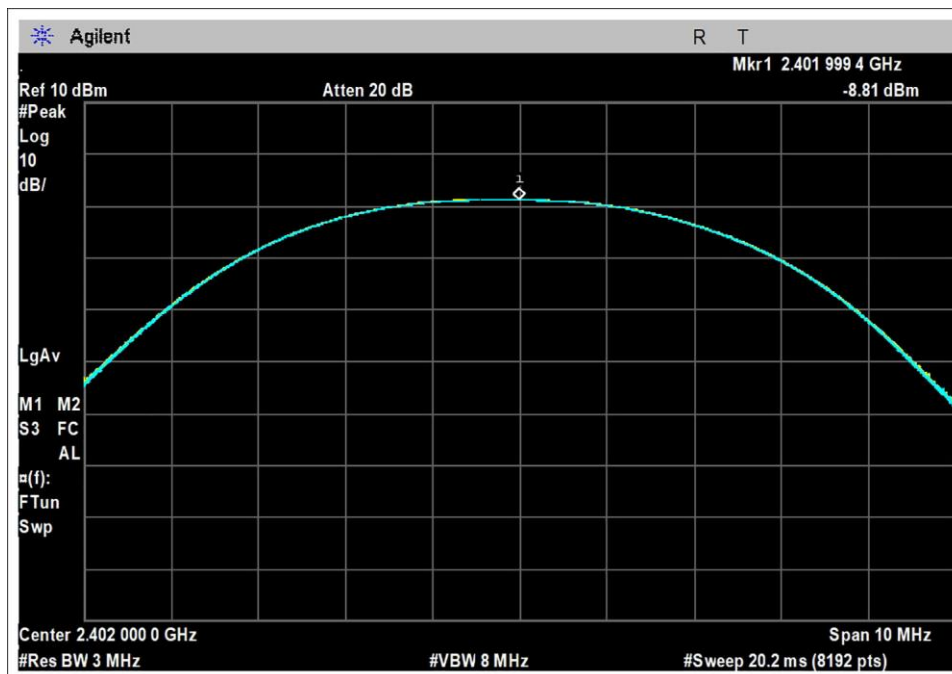
For all other antennas, the RF conducted power limit is calculated according to a maximum of 1W (30 dBm) conducted power with a maximum of 6dBi gain antenna in accordance with 15.247(b)

$$Limit = 30 - Roundup(G - 6)$$

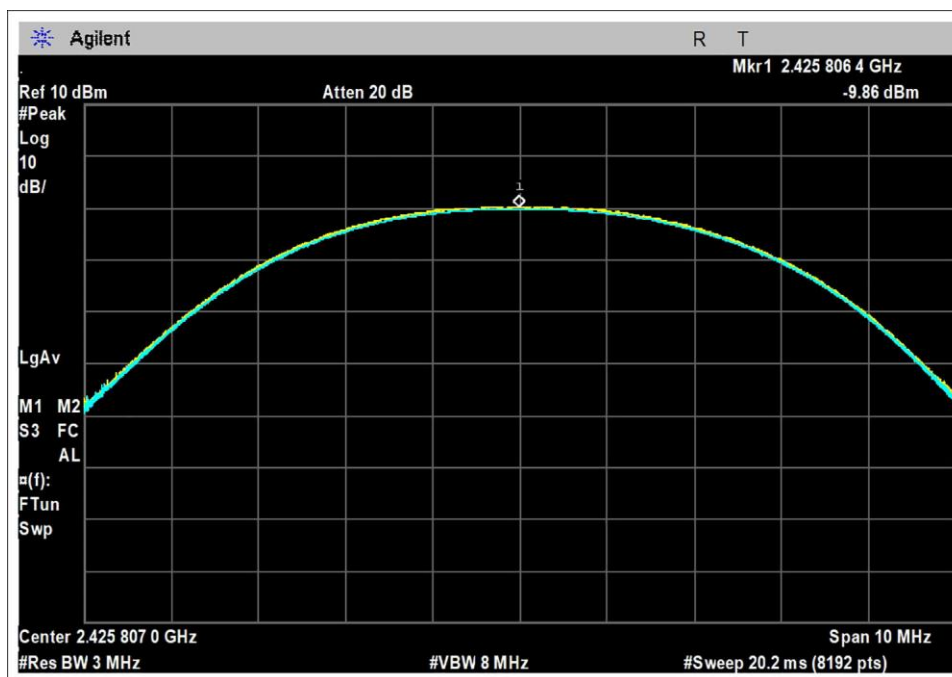
For directional beamforming antennas, the limit is calculated in accordance with 15.247(c)(2) and KDB 662911.

Plots

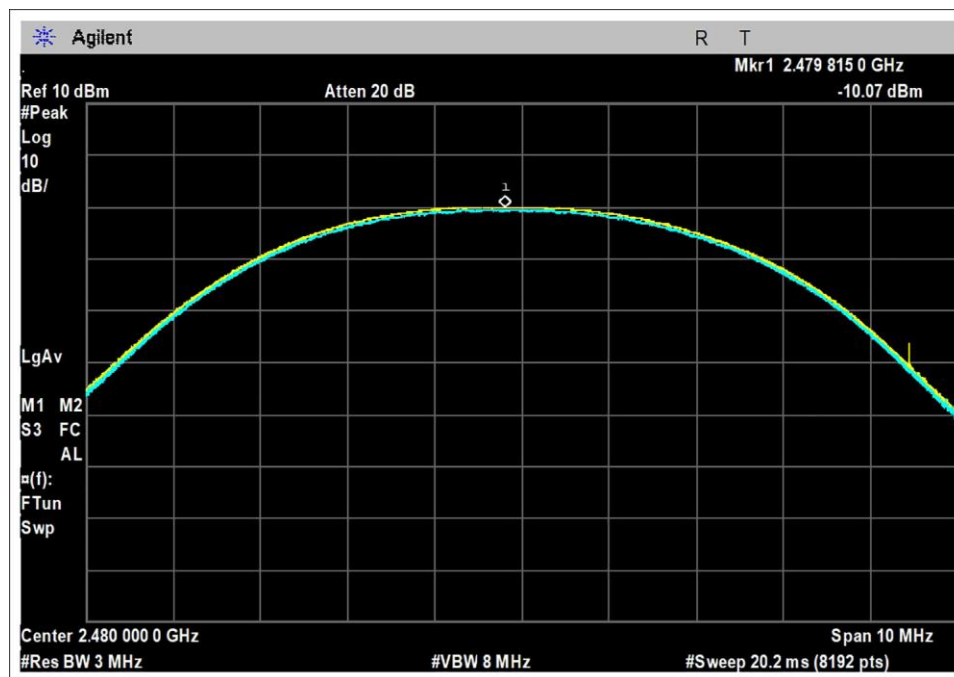
1MHz



Low Channel

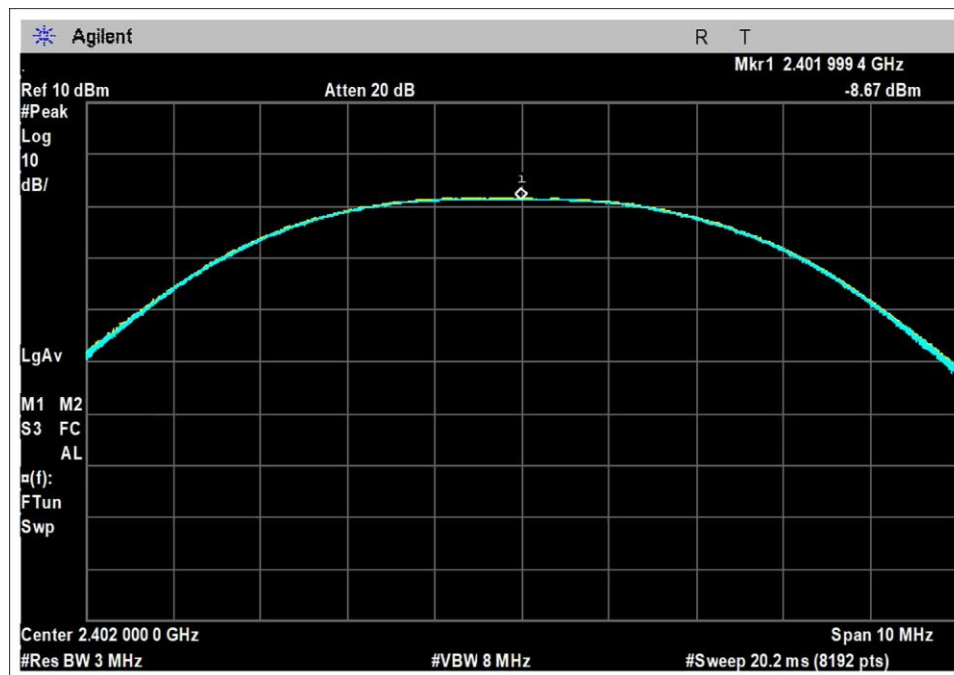


Middle Channel

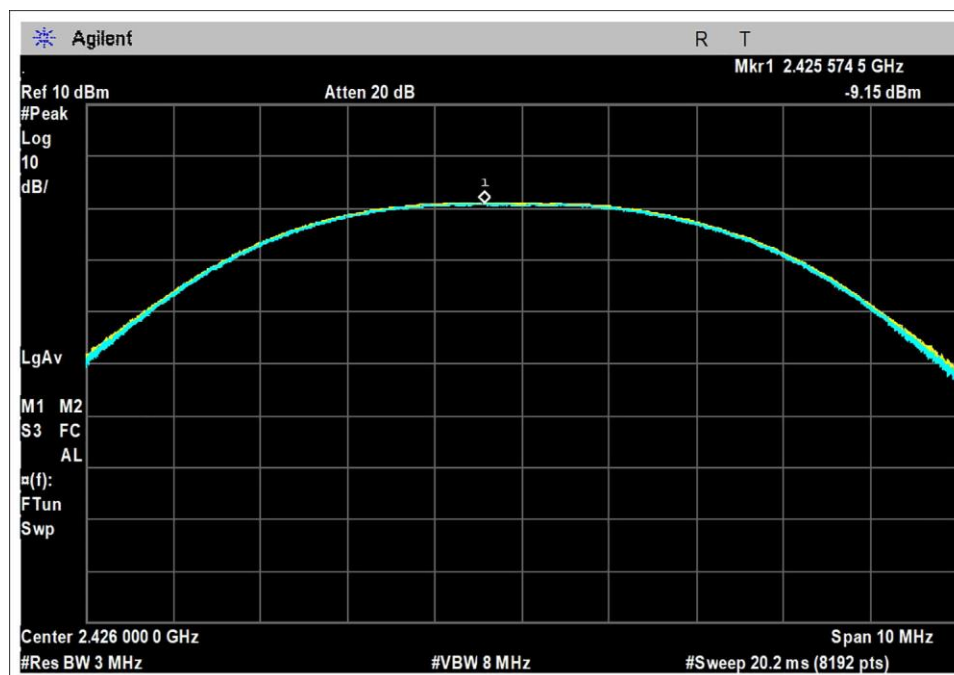


High Channel

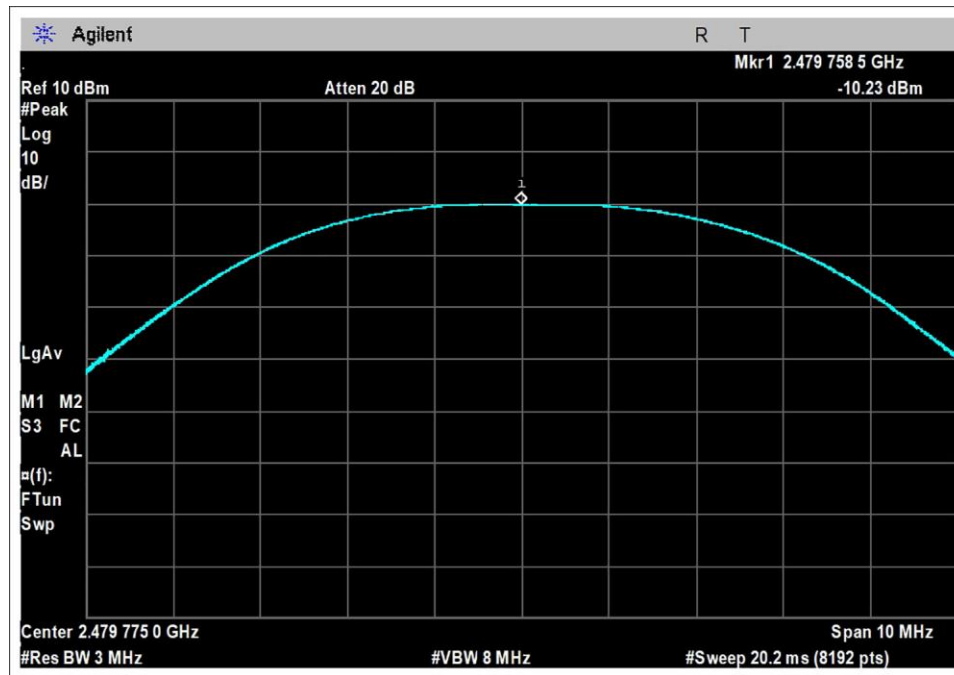
2MHz



Low Channel

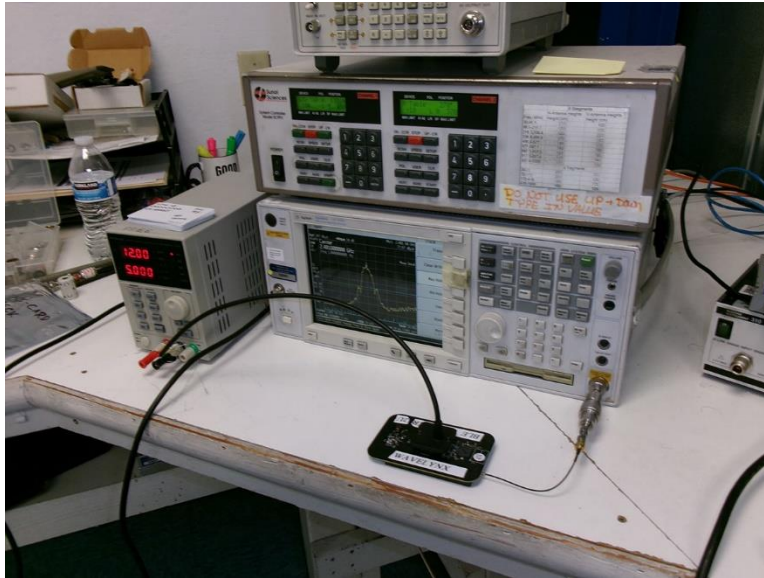


Middle Channel



High Channel

Test Setup Photo(s)



15.247(e) Power Spectral Density

Test Setup/Conditions

Test Location:	Fremont Chamber 3	Test Engineer:	Jonathan Wharton
Test Method:	ANSI C63.10 (2020), KDB 558074	Test Date(s):	7/23/2025
Configuration:	1		
Test Setup:	Conducted Antenna Port No additional cables/attenuators were used.		

Environmental Conditions

Temperature (°C)	23.1	Relative Humidity (%):	43
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Test Equipment

Asset#	Description	Manufacturer	Model	Cal Date	Cal Due
02660	Spectrum Analyzer	Agilent	E4446A	1/7/2025	1/7/2027

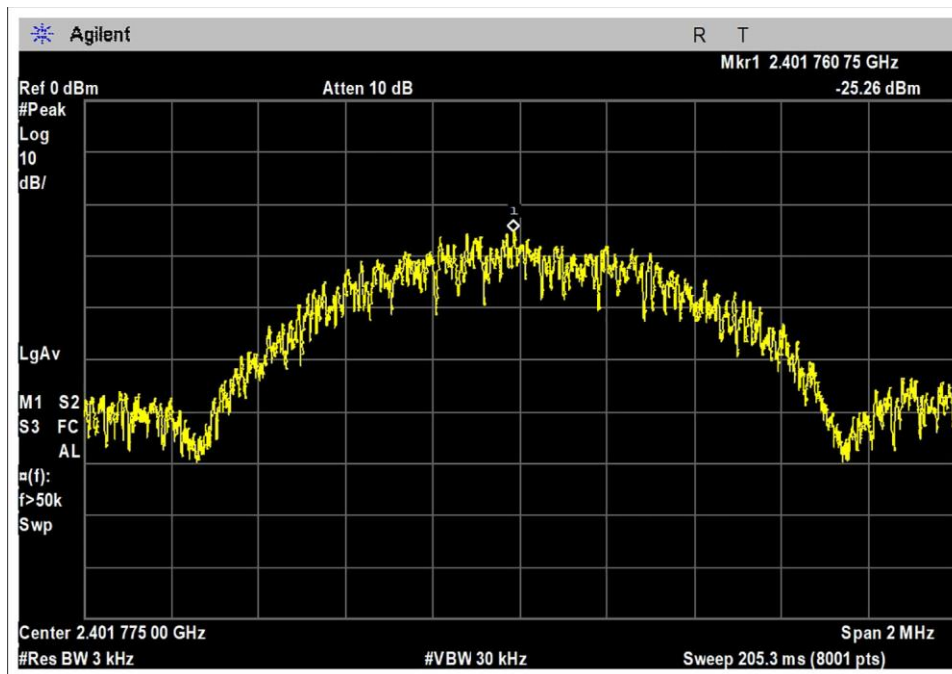
Test Data Summary - RF Conducted Measurement

Measurement Method: PKPSD

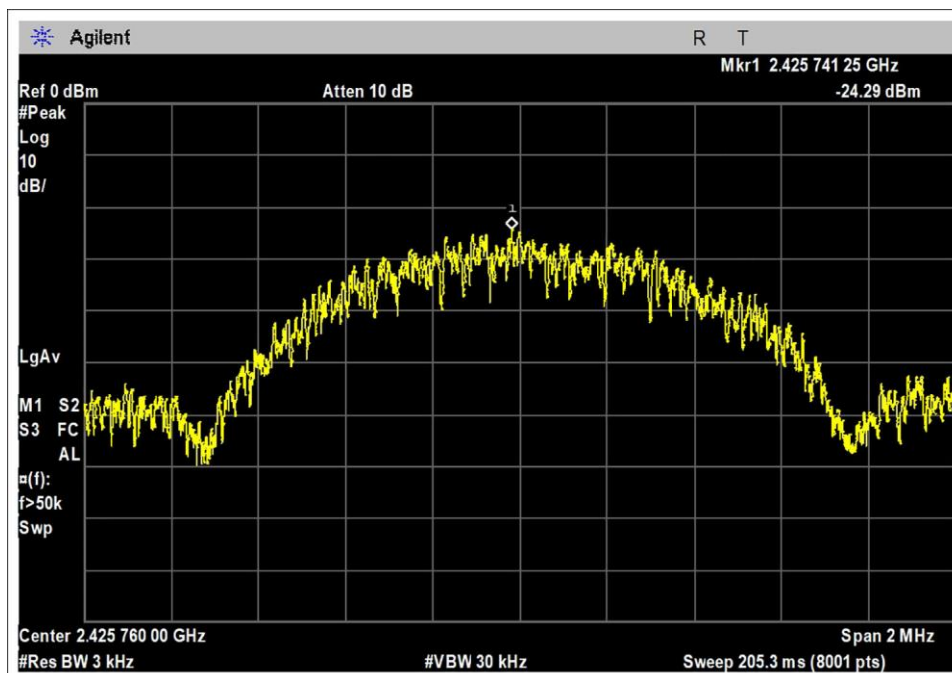
Frequency (MHz)	Modulation	Measured (dBm/3kHz)	Limit (dBm/3kHz)	Results
2402	GFSK 1MHz	-25.26	≤8	Pass
2426	GFSK 1MHz	-24.29	≤8	Pass
2480	GFSK 1MHz	-25.77	≤8	Pass
2402	GFSK 2MHz	-27.55	≤8	Pass
2426	GFSK 2MHz	-27.34	≤8	Pass
2480	GFSK 2MHz	-28.25	≤8	Pass

Plots

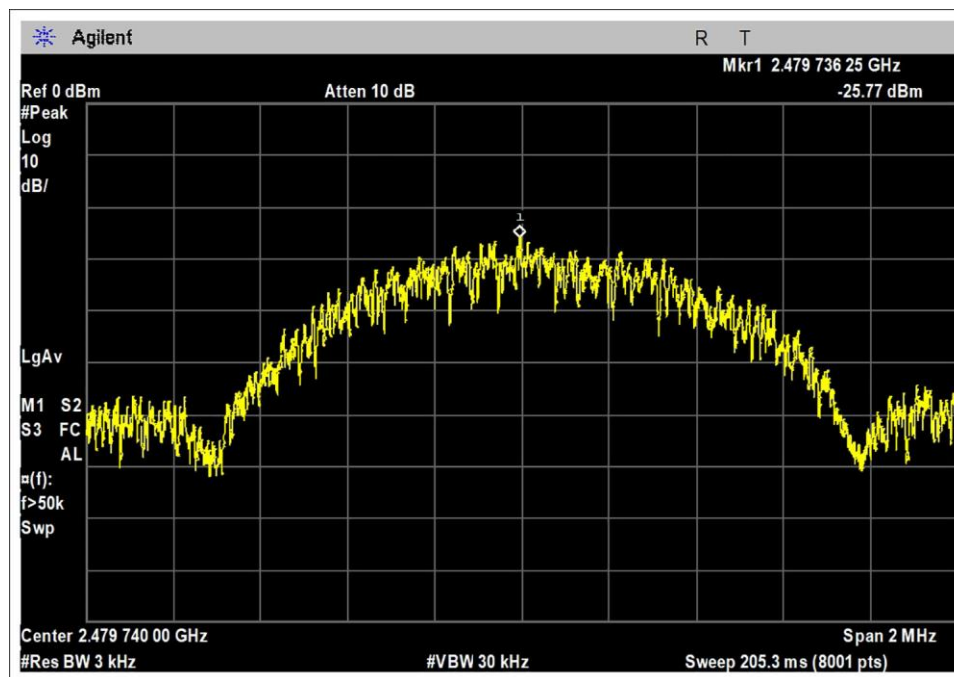
1MHz



Low Channel

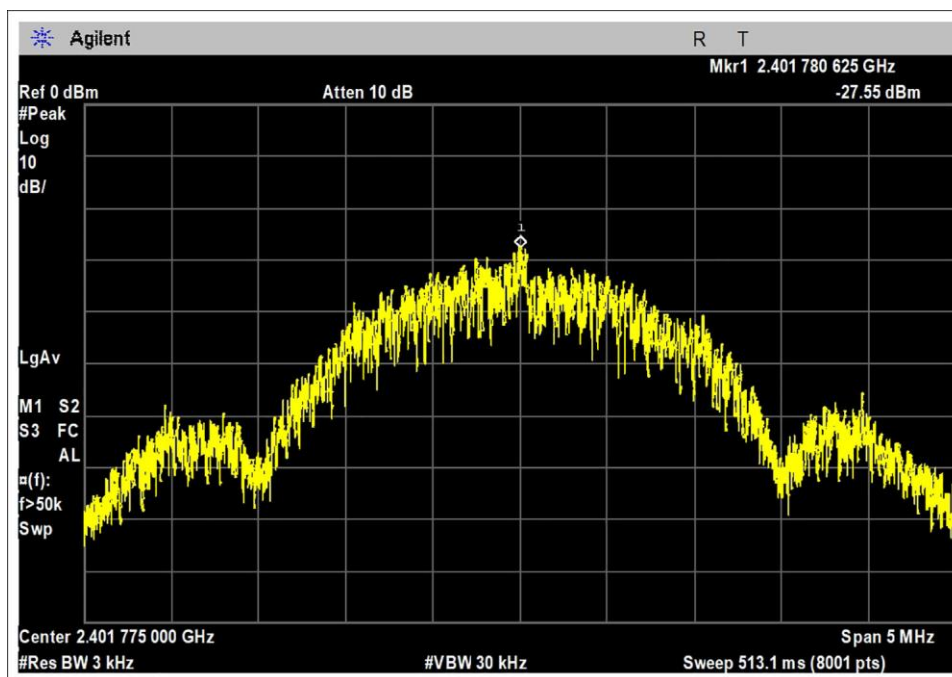


Middle Channel

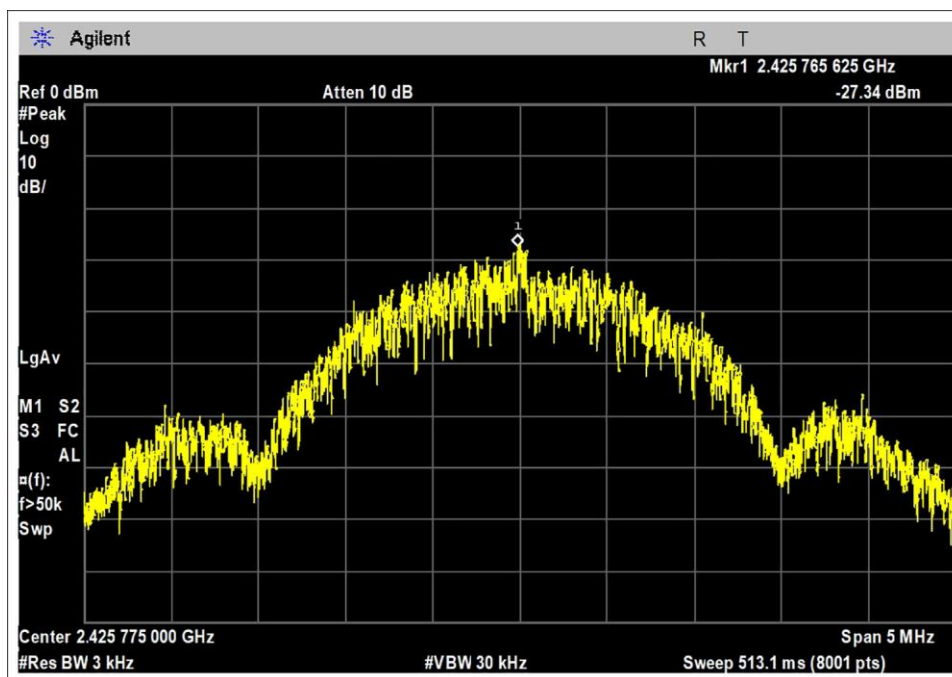


High Channel

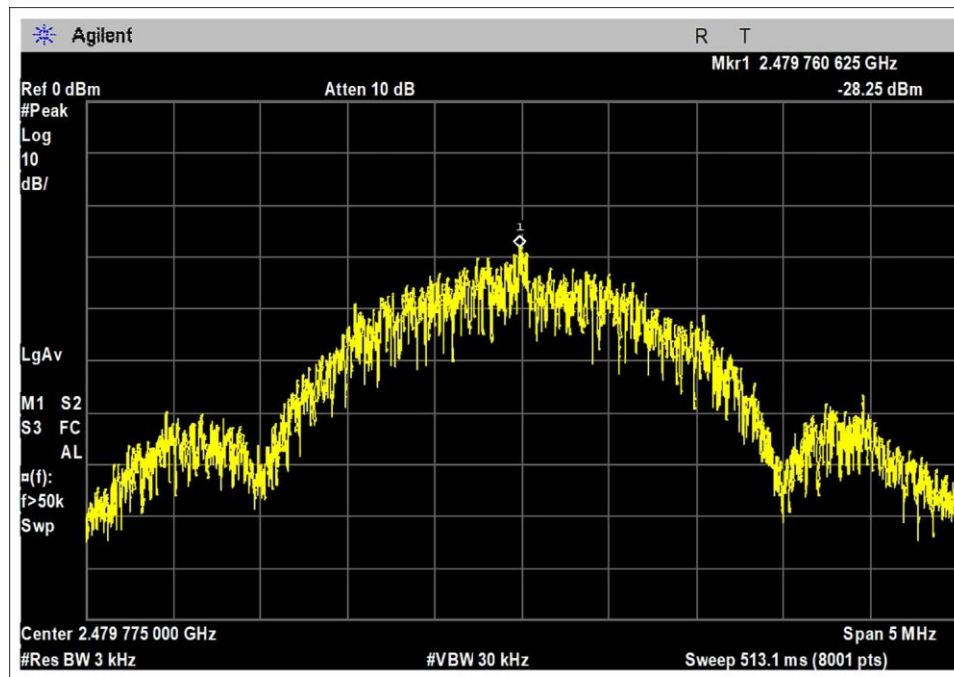
2MHz



Low Channel

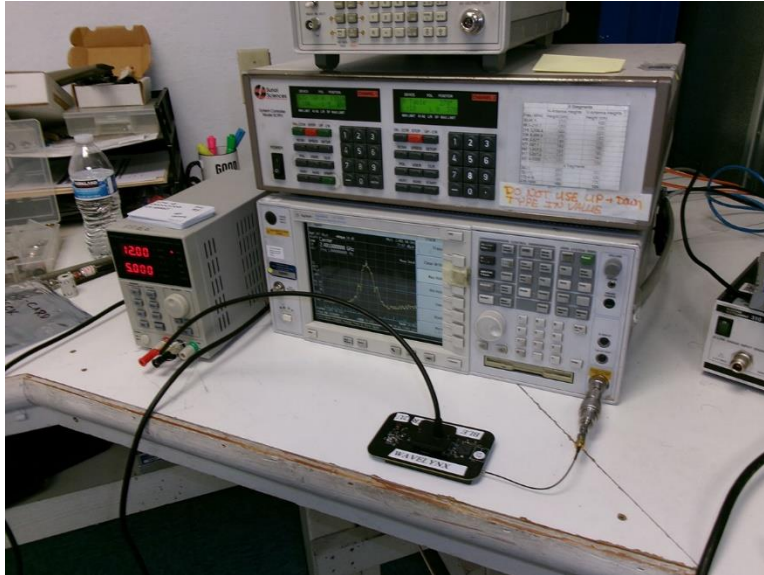


Middle Channel



High Channel

Test Setup Photo(s)



15.247(d) RF Conducted Band Edge

Test Setup/Conditions

Test Location:	Fremont Chamber 3	Test Engineer:	Jonathan Wharton
Test Method:	ANSI C63.10 (2020), KDB 558074	Test Date(s):	7/23/2025
Configuration:	1		
Test Setup/Notes:	No additional cables/attenuators were used.		

Environmental Conditions

Temperature (°C)	23.1	Relative Humidity (%):	43
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Band Edge

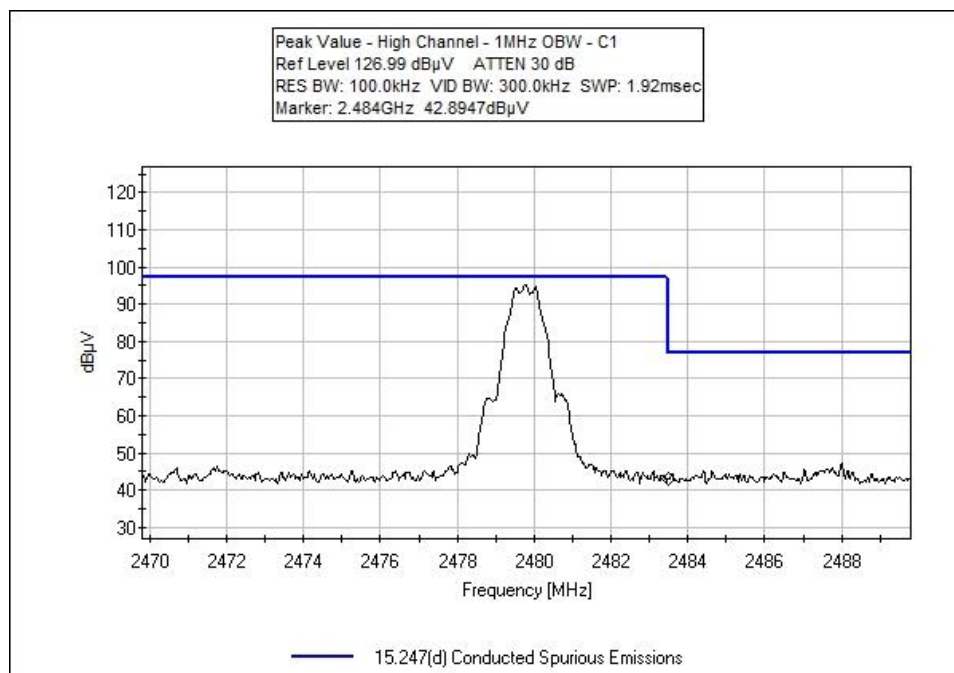
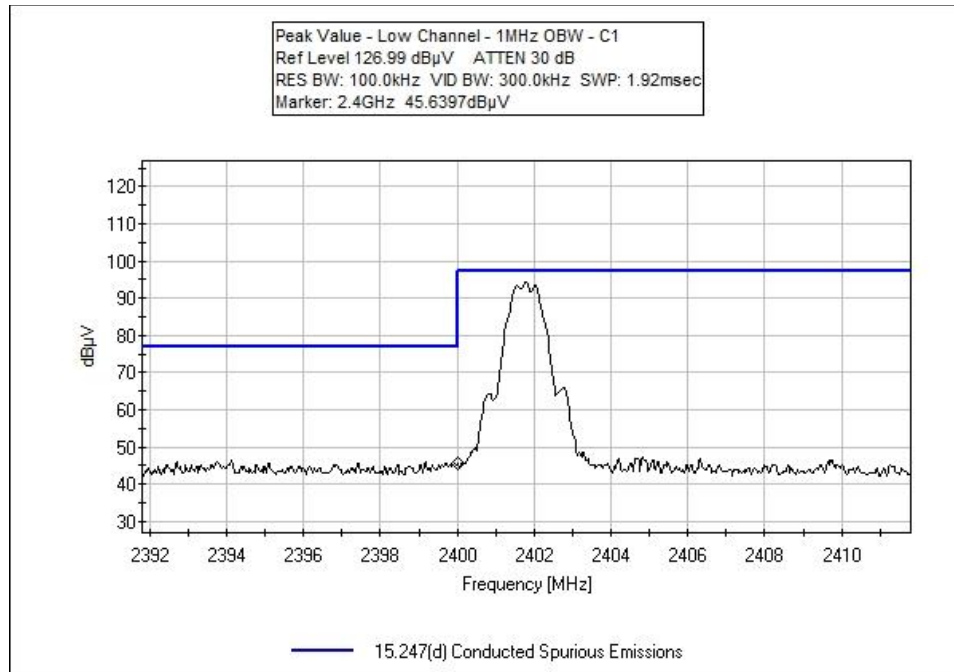
Band Edge Summary

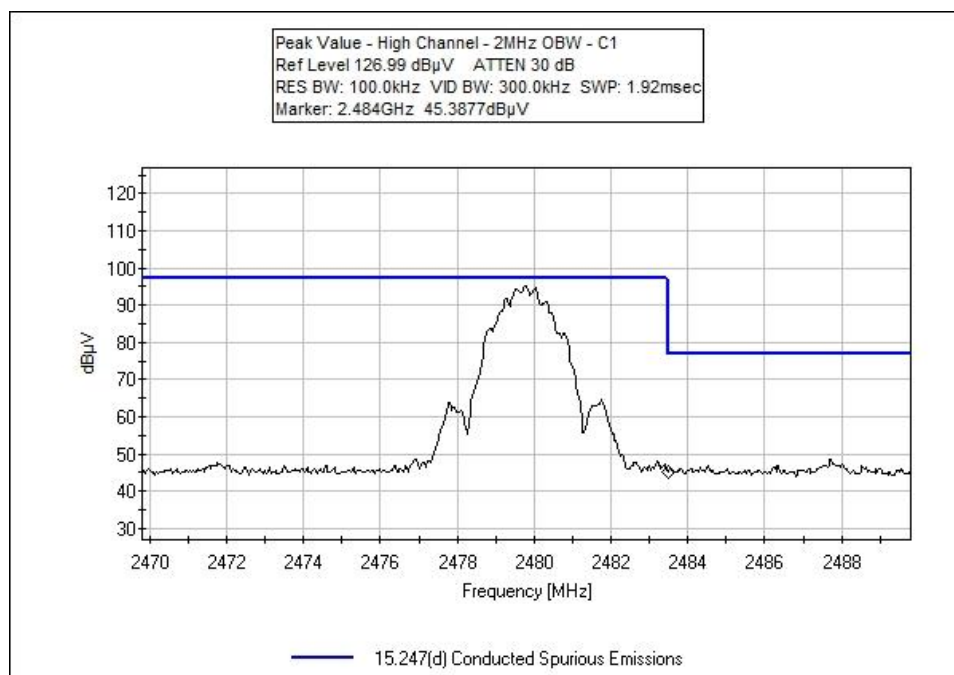
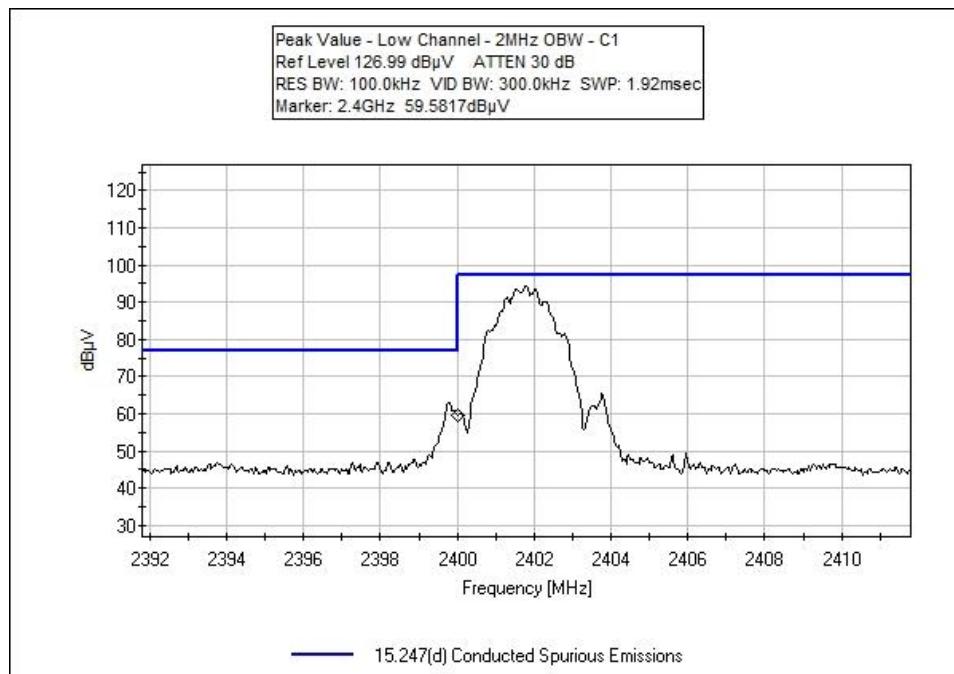
Limit applied: Max Power/100kHz - 20dB.

Frequency (MHz)	Modulation	Measured (dBm)	Limit (dBm)	Results
2400	GFSK 1MHz	-37	<-28.81	Pass
2400	GFSK 2MHz	-35	<-28.67	Pass
2483.5	GFSK 1MHz	-61.8	<-29.53	Pass
2483.5	GFSK 2MHz	-61.9	<-29.82	Pass

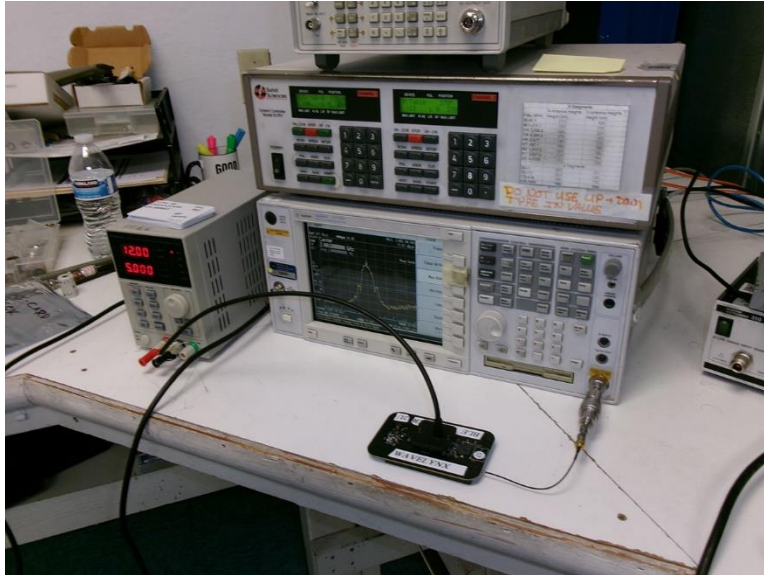
Band Edge Plots

NOTE: Displayed limit corrected for all measuring equipment for comparison with the data.





Test Setup Photo(s)



15.247(d) Radiated Emissions & Band Edge

Test Setup/Conditions			
Test Location:	Fremont Chamber 3	Test Engineer:	Jonathan Wharton
Test Method:	ANSI C63.10 (2020), KDB 558074	Test Date(s):	7/30/2025, 8/1/2025, and 8/21-22/2025
Configuration:	3		
Test Setup:	Modification #1 was in place during testing.		

Environmental Conditions			
Temperature (°C)	23.0	Relative Humidity (%):	47

Test Setup / Conditions / Data

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **WaveLynx Technologies Corporation**
 Specification: **15.209 Radiated Emissions**
 Work Order #: **111609**
 Test Type: **Radiated Scan**
 Tested By: Jonathan Wharton
 Software: EMITest 5.03.20

Date: 8/21/2025
 Time: 10:41:27
 Sequence#: 41

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

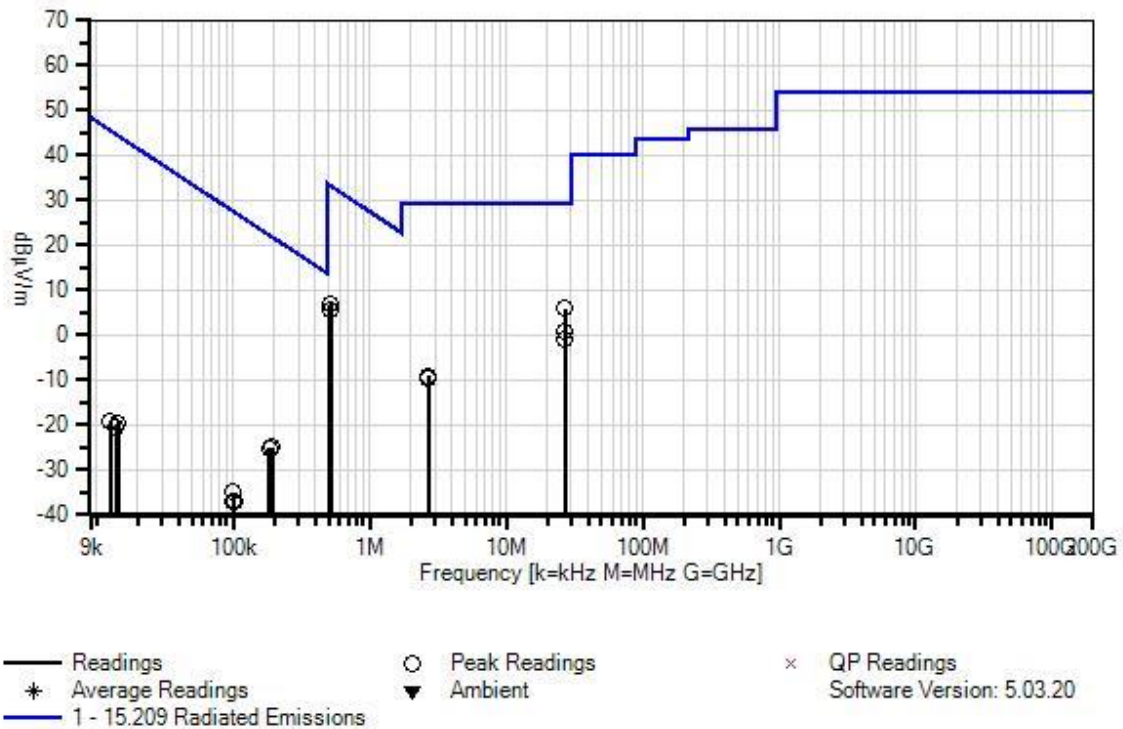
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Radiated Spurious Emissions Frequency Range: 9kHz-30MHz Method: ANSI C63.10 Test Environment Conditions: Temperature: 22.9°C Humidity: 44% Pressure: 101.7kPa Highest generated frequency: 2480MHz The EUT is operated as intended. It is powered by a DC power supply at 12VDC. All functions are operational Note EUT does not have access to a receive only mode, EUT in normal operation. Modification #1 was in place during testing.
--

WaveLynx Technologies Corporation WO#: 111609 Sequence#: 41 Date: 8/21/2025
15.209 Radiated Emissions Test Distance: 3 Meters Ground Facing



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02660	Spectrum Analyzer	E4446A	1/7/2025	1/7/2027
T1	ANP06691	Cable	PE3062-180	3/20/2024	3/20/2026
T2	ANP00987	Cable		1/12/2024	1/12/2026
T3	AN00314	Loop Antenna	6502	5/3/2024	5/3/2026

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB		Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	27.121M	39.4	+0.2	+0.6	+5.9		-40.0	6.1	29.5	-23.4	Groun
2	519.720k	37.2	+0.0	+0.1	+9.7		-40.0	7.0	33.3	-26.3	Paral
3	514.860k	37.0	+0.0	+0.1	+9.7		-40.0	6.8	33.4	-26.6	Groun
4	513.782k	35.8	+0.0	+0.1	+9.7		-40.0	5.6	33.4	-27.8	Perpe
5	27.121M	34.3	+0.2	+0.6	+5.9		-40.0	1.0	29.5	-28.5	Paral
6	27.124M	32.3	+0.2	+0.6	+5.9		-40.0	-1.0	29.5	-30.5	Perpe
7	2.691M	21.1	+0.0	+0.2	+9.7		-40.0	-9.0	29.5	-38.5	Paral
8	2.700M	20.9	+0.0	+0.2	+9.7		-40.0	-9.2	29.5	-38.7	Perpe
9	2.696M	20.4	+0.0	+0.2	+9.7		-40.0	-9.7	29.5	-39.2	Groun
10	192.460k	45.3	+0.0	+0.0	+9.7		-80.0	-25.0	21.9	-46.9	Perpe
11	186.100k	45.3	+0.0	+0.0	+9.7		-80.0	-25.0	22.2	-47.2	Paral
12	185.360k	45.2	+0.0	+0.0	+9.7		-80.0	-25.1	22.2	-47.3	Groun
13	99.470k	35.3	+0.0	+0.0	+9.9		-80.0	-34.8	27.6	-62.4	Paral
14	14.370k	45.3	+0.0	+0.0	+15.2		-80.0	-19.5	44.4	-63.9	Groun
15	101.970k	33.3	+0.0	+0.0	+9.9		-80.0	-36.8	27.4	-64.2	Groun
16	100.220k	32.9	+0.0	+0.0	+9.9		-80.0	-37.2	27.6	-64.8	Perpe
17	12.545k	44.5	+0.0	+0.0	+16.2		-80.0	-19.3	45.6	-64.9	Perpe
18	14.000k	44.4	+0.0	+0.0	+15.4		-80.0	-20.2	44.7	-64.9	Paral

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **WaveLynx Technologies Corporation**
 Specification: **15.209 Radiated Emissions**
 Work Order #: **111609** Date: 8/22/2025
 Test Type: **Radiated Scan** Time: 11:39:58
 Tested By: Jonathan Wharton Sequence#: 49
 Software: EMITest 5.03.20

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 3			

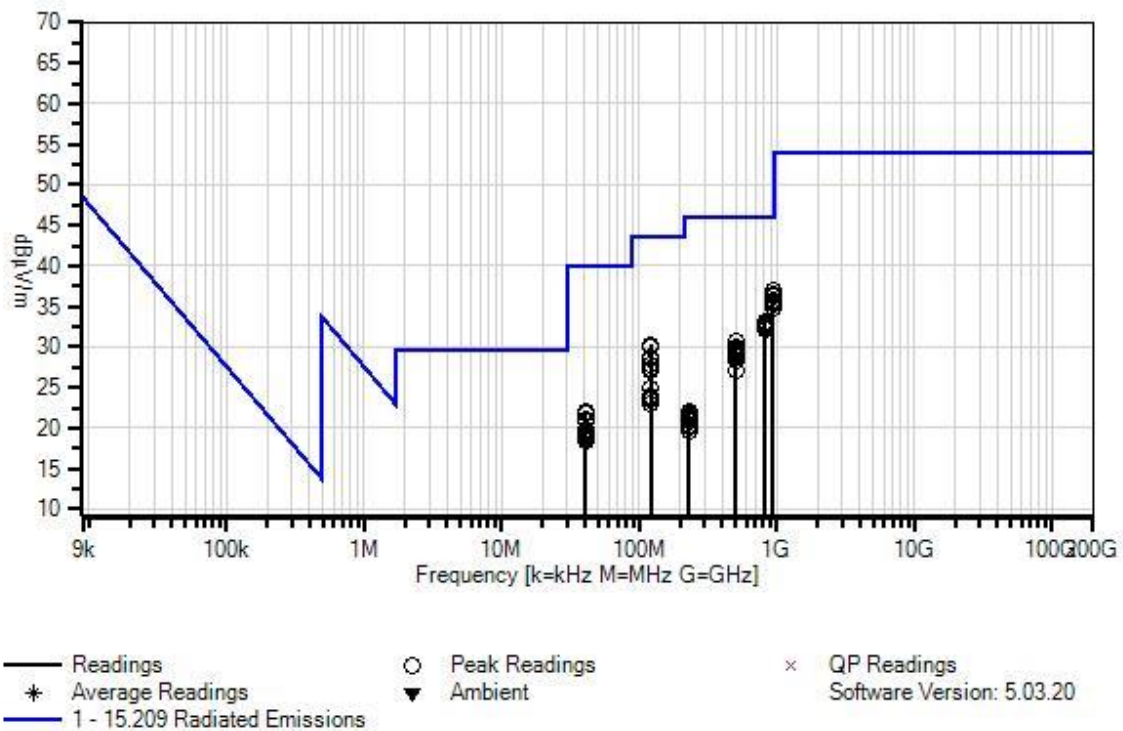
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 3			

Test Conditions / Notes:

Radiated Spurious Emissions Frequency Range: 30MHz-1GHz Method: ANSI C63.10 Test Environment Conditions: Temperature: 22.7°C Humidity: 45% Pressure: 101.6kPa Highest generated frequency: 2480MHz The EUT is operated as intended. It is powered by a DC power supply at 12VDC. All functions are operational Note Low Channel (1MHz/2MHz) / Mid Channel (1MHz/2MHz) / High Channel (1MHz/2MHz) / 125kHz / 13.5MHz Modification #1 was in place during testing.
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WaveLynx Technologies Corporation WO#: 111609 Sequence#: 49 Date: 8/22/2025
15.209 Radiated Emissions Test Distance: 3 Meters Horiz



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN01995	Biconilog Antenna	CBL6111C	5/16/2024	5/16/2026
T2	ANP00987	Cable		1/12/2024	1/12/2026
T3	ANP06691	Cable	PE3062-180	3/20/2024	3/20/2026
T4	ANP07508	Preamp	310N	4/5/2024	4/5/2026
T5	ANP01187	Cable	CNT-195	7/3/2024	7/3/2026
	AN02660	Spectrum Analyzer	E4446A	1/7/2025	1/7/2027

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	938.339M	30.6	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	36.9	46.0 13.56MHz Transmitter	-9.1	Horiz
2	938.176M	30.2	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	36.5	46.0 BLE High Channel (2MHz)	-9.5	Horiz
3	938.207M	30.0	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	36.3	46.0 BLE High Channel (1MHz)	-9.7	Vert
4	938.348M	29.5	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	35.8	46.0 BLE Low Channel (2MHz)	-10.2	Horiz
5	938.265M	29.5	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	35.8	46.0 BLE Mid Channel (1MHz)	-10.2	Vert
6	938.159M	29.5	+30.4 +1.0	+4.6	+1.3	-31.1	+0.0	35.7	46.0 BLE High Channel (2MHz)	-10.3	Vert
7	938.236M	29.3	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	35.6	46.0 BLE Low Channel (1MHz)	-10.4	Horiz
8	938.302M	29.2	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	35.5	46.0 125kHz Transmitter	-10.5	Horiz
9	938.141M	29.2	+30.4 +1.0	+4.6	+1.3	-31.1	+0.0	35.4	46.0 BLE Mid Channel (2MHz)	-10.6	Vert
10	938.195M	29.1	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	35.4	46.0 BLE High Channel (1MHz)	-10.6	Horiz
11	938.213M	29.1	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	35.4	46.0 125kHz Transmitter	-10.6	Vert
12	938.325M	29.0	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	35.3	46.0 BLE Low Channel (2MHz)	-10.7	Vert
13	938.191M	28.9	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	35.2	46.0 BLE Low Channel (1MHz)	-10.8	Vert
14	938.352M	28.9	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	35.2	46.0 13.56MHz Transmitter	-10.8	Vert
15	938.308M	28.6	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	34.9	46.0 BLE Mid Channel (1MHz)	-11.1	Horiz
16	938.199M	28.5	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	34.8	46.0 BLE Mid Channel (2MHz)	-11.2	Horiz

17	823.758M	30.3	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	33.2	46.0 BLE Low Channel (1MHz)	-12.8	Horiz
18	823.858M	30.3	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	33.2	46.0 BLE High Channel (1MHz)	-12.8	Vert
19	823.730M	30.2	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	33.1	46.0 BLE Low Channel (2MHz)	-12.9	Horiz
20	823.861M	30.2	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	33.1	46.0 13.56MHz Transmitter	-12.9	Vert
21	823.840M	30.1	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	33.0	46.0 125kHz Transmitter	-13.0	Horiz
22	823.693M	30.1	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	33.0	46.0 BLE High Channel (2MHz)	-13.0	Vert
23	823.622M	30.1	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	33.0	46.0 BLE High Channel (2MHz)	-13.0	Horiz
24	823.953M	30.0	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.9	46.0 13.56MHz Transmitter	-13.1	Horiz
25	823.810M	30.0	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.9	46.0 BLE High Channel (1MHz)	-13.1	Horiz
26	122.010M	42.4	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	30.3	43.5 13.56MHz Transmitter	-13.2	Vert
27	823.745M	29.9	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.8	46.0 BLE Low Channel (2MHz)	-13.2	Vert
28	121.998M	42.3	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	30.2	43.5 125kHz Transmitter	-13.3	Vert
29	823.849M	29.8	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.7	46.0 125kHz Transmitter	-13.3	Vert
30	823.669M	29.7	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.6	46.0 BLE Mid Channel (1MHz)	-13.4	Horiz
31	122.070M	42.1	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	30.0	43.5 125kHz Transmitter	-13.5	Horiz
32	823.753M	29.6	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.5	46.0 BLE Mid Channel (2MHz)	-13.5	Horiz
33	823.682M	29.4	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.3	46.0 BLE Low Channel (1MHz)	-13.7	Vert
34	823.769M	29.4	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.3	46.0 BLE Mid Channel (2MHz)	-13.7	Vert

35	823.608M	29.3	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.2	46.0 BLE Mid Channel (1MHz)	-13.8	Vert
36	122.067M	40.8	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	28.7	43.5 BLE Low Channel (2MHz)	-14.8	Vert
37	122.057M	40.6	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	28.5	43.5 BLE Low Channel (1MHz)	-15.0	Vert
38	500.342M	33.8	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	30.7	46.0 13.56MHz Transmitter	-15.3	Horiz
39	121.997M	40.0	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	27.9	43.5 BLE Mid Channel (2MHz)	-15.6	Vert
40	122.031M	40.0	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	27.9	43.5 BLE Mid Channel (1MHz)	-15.6	Vert
41	500.352M	33.1	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	30.0	46.0 BLE Mid Channel (2MHz)	-16.0	Horiz
42	500.349M	33.1	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	30.0	46.0 125kHz Transmitter	-16.0	Horiz
43	122.018M	39.5	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	27.4	43.5 BLE High Channel (2MHz)	-16.1	Vert
44	500.310M	32.9	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	29.8	46.0 BLE High Channel (2MHz)	-16.2	Horiz
45	122.032M	39.3	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	27.2	43.5 BLE High Channel (1MHz)	-16.3	Vert
46	500.321M	32.7	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	29.6	46.0 BLE Low Channel (1MHz)	-16.4	Horiz
47	500.315M	32.3	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	29.2	46.0 BLE High Channel (1MHz)	-16.8	Horiz
48	500.310M	32.2	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	29.1	46.0 BLE High Channel (1MHz)	-16.9	Vert
49	500.296M	31.8	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	28.7	46.0 BLE Low Channel (2MHz)	-17.3	Horiz
50	500.280M	31.5	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	28.4	46.0 BLE Low Channel (2MHz)	-17.6	Vert
51	500.347M	31.5	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	28.4	46.0 125kHz Transmitter	-17.6	Vert
52	500.330M	31.5	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	28.4	46.0 BLE Low Channel (1MHz)	-17.6	Vert

53	500.316M	31.4	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	28.3	46.0 BLE Mid Channel (1MHz)	-17.7	Vert
54	500.298M	31.3	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	28.2	46.0 BLE High Channel (2MHz)	-17.8	Vert
55	500.308M	31.3	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	28.2	46.0 13.56MHz Transmitter	-17.8	Vert
56	500.318M	31.3	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	28.2	46.0 BLE Mid Channel (1MHz)	-17.8	Horiz
57	40.689M	34.1	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	22.1	40.0 BLE Low Channel (1MHz)	-17.9	Horiz
58	40.672M	33.8	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	21.8	40.0 13.56MHz Transmitter	-18.2	Horiz
59	40.681M	33.7	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	21.7	40.0 BLE Mid Channel (1MHz)	-18.3	Horiz
60	122.019M	36.9	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	24.8	43.5 BLE Mid Channel (1MHz)	-18.7	Horiz
61	500.315M	30.3	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	27.2	46.0 BLE Mid Channel (2MHz)	-18.8	Vert
62	40.673M	33.1	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	21.1	40.0 BLE High Channel (1MHz)	-18.9	Horiz
63	40.669M	32.8	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	20.8	40.0 BLE Mid Channel (2MHz)	-19.2	Horiz
64	40.689M	32.7	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	20.7	40.0 BLE Low Channel (2MHz)	-19.3	Horiz
65	121.999M	36.1	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	24.0	43.5 BLE Mid Channel (2MHz)	-19.5	Horiz
66	121.985M	36.1	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	24.0	43.5 BLE High Channel (1MHz)	-19.5	Horiz
67	121.997M	35.8	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	23.7	43.5 BLE High Channel (2MHz)	-19.8	Horiz
68	122.050M	35.6	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	23.5	43.5 BLE Low Channel (2MHz)	-20.0	Horiz
69	40.649M	31.9	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	19.9	40.0 BLE High Channel (2MHz)	-20.1	Horiz

70	40.660M	31.7	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	19.7	40.0 125kHz Transmitter	-20.3	Horiz
71	122.050M	35.2	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	23.1	43.5 13.56MHz Transmitter	-20.4	Horiz
72	40.693M	31.4	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	19.4	40.0 125kHz Transmitter	-20.6	Vert
73	122.015M	35.0	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	22.9	43.5 BLE Low Channel (1MHz)	-20.6	Horiz
74	40.683M	31.1	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	19.1	40.0 BLE Low Channel (1MHz)	-20.9	Vert
75	40.691M	31.0	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	19.0	40.0 13.56MHz Transmitter	-21.0	Vert
76	40.660M	30.6	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	18.6	40.0 BLE Mid Channel (2MHz)	-21.4	Vert
77	40.677M	30.6	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	18.6	40.0 BLE High Channel (2MHz)	-21.4	Vert
78	40.681M	30.5	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	18.5	40.0 BLE Low Channel (2MHz)	-21.5	Vert
79	40.648M	30.4	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	18.4	40.0 BLE Mid Channel (1MHz)	-21.6	Vert
80	40.677M	30.3	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	18.3	40.0 BLE High Channel (1MHz)	-21.7	Vert
81	230.548M	34.6	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	21.9	46.0 BLE High Channel (1MHz)	-24.1	Horiz
82	230.528M	34.6	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	21.9	46.0 13.56MHz Transmitter	-24.1	Horiz
83	230.617M	34.5	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	21.8	46.0 BLE High Channel (2MHz)	-24.2	Horiz
84	230.449M	34.3	+16.3 +0.4	+2.0	+0.5	-32.0	+0.0	21.5	46.0 BLE Mid Channel (1MHz)	-24.5	Horiz
85	230.545M	34.1	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	21.4	46.0 125kHz Transmitter	-24.6	Horiz
86	230.503M	33.9	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	21.2	46.0 BLE Low Channel (2MHz)	-24.8	Horiz
87	230.490M	33.8	+16.3 +0.4	+2.0	+0.5	-32.0	+0.0	21.0	46.0 BLE Mid Channel (2MHz)	-25.0	Horiz

88	230.534M	33.6	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	20.9	46.0	-25.1	Vert
									BLE High Channel (1MHz)		
89	230.515M	33.6	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	20.9	46.0	-25.1	Vert
									13.56MHz Transmitter		
90	230.519M	33.5	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	20.8	46.0	-25.2	Vert
									BLE Mid Channel (1MHz)		
91	230.532M	33.4	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	20.7	46.0	-25.3	Vert
									125kHz Transmitter		
92	230.547M	33.4	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	20.7	46.0	-25.3	Vert
									BLE Low Channel (1MHz)		
93	230.520M	33.1	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	20.4	46.0	-25.6	Vert
									BLE Low Channel (2MHz)		
94	230.533M	32.9	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	20.2	46.0	-25.8	Vert
									BLE Mid Channel (2MHz)		
95	230.503M	32.8	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	20.1	46.0	-25.9	Horiz
									BLE Low Channel (1MHz)		
96	230.530M	32.4	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	19.7	46.0	-26.3	Vert
									BLE High Channel (2MHz)		

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **WaveLynx Technologies Corporation**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **111609** Date: 7/30/2025
 Test Type: **Radiated Scan** Time: 10:06:31
 Tested By: Jonathan Wharton Sequence#: 17
 Software: EMITest 5.03.20

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 3			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 3			

Test Conditions / Notes:

Radiated Spurious Emissions Frequency Range: 1GHz to 12GHz Method: ANSI C63.10 Test Environment Conditions: Temperature: 22.7°C Humidity: 45% Pressure: 101.6kPa Highest generated frequency: 2480MHz The EUT is operated as intended. It is powered by a DC power supply at 12VDC. All functions are operational Note Low Channel (1MHz/2MHz) / Mid Channel (1MHz/2MHz) / High Channel (1MHz/2MHz) / 125kHz / 13.5MHz Modification #1 was in place during testing.

WaveLynx Technologies Corporation WO#: 111609 Sequence#: 17 Date: 7/30/2025
15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Horiz



— Readings
× QP Readings
▼ Ambient
— 1 - 15.247(d) / 15.209 Radiated Spurious Emissions

○ Peak Readings
* Average Readings
Software Version: 5.03.20

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157ANSI	Horn Antenna	3115	2/12/2025	2/12/2027
T2	ANP06904	Cable	32022-29094K- 29094K-36TC	1/9/2024	1/9/2026
T3	AN03309	High Pass Filter	11SH10- 3000/T10000- O/O	4/28/2025	4/28/2027
T4	AN03861	Preamp	BZRY- 00101800- 251057-202222	2/11/2025	2/11/2027
T5	ANP01210	Cable	FSJ1P-50A-4A	1/9/2024	1/9/2026
T6	AN03302	Cable	32026-29094K- 29094K-72TC	1/9/2024	1/9/2026
	AN02660	Spectrum Analyzer	E4446A	1/7/2025	1/7/2027

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 T6 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	7439.380M	63.6	+36.4 +4.6	+1.4 +2.6	+0.3	-62.9	+0.0	46.0	54.0 High Channel (2MHz)	-8.0	Horiz
2	9608.000M	60.2	+37.4 +5.9	+1.6 +3.0	+0.3	-63.2	+0.0	45.2	54.0 Low Channel (2MHz)	-8.8	Horiz
3	9919.920M	59.3	+38.1 +5.8	+1.7 +3.0	+0.3	-63.1	+0.0	45.1	54.0 High Channel (1MHz)	-8.9	Vert
4	9608.000M	59.6	+37.4 +5.9	+1.6 +3.0	+0.3	-63.2	+0.0	44.6	54.0 Low Channel (1MHz)	-9.4	Horiz
5	4852.620M	67.1	+33.0 +3.6	+1.1 +2.0	+0.3	-62.8	+0.0	44.3	54.0 Mid Channel (2MHz)	-9.7	Horiz
6	9608.000M	59.1	+37.4 +5.9	+1.6 +3.0	+0.3	-63.2	+0.0	44.1	54.0 Low Channel (1MHz)	-9.9	Vert
7	9704.000M	58.6	+37.7 +5.8	+1.6 +3.0	+0.4	-63.1	+0.0	44.0	54.0 Mid Channel (1MHz)	-10.0	Vert
8	7277.360M	61.9	+35.9 +4.5	+1.4 +2.6	+0.3	-62.8	+0.0	43.8	54.0 Mid Channel (2MHz)	-10.2	Vert
9	9919.920M	57.8	+38.1 +5.8	+1.7 +3.0	+0.3	-63.1	+0.0	43.6	54.0 High Channel (1MHz)	-10.4	Horiz
10	9920.740M	57.8	+38.1 +5.8	+1.7 +3.0	+0.3	-63.1	+0.0	43.6	54.0 High Channel (2MHz)	-10.4	Horiz
11	4852.000M	66.3	+33.0 +3.6	+1.1 +2.0	+0.3	-62.8	+0.0	43.5	54.0 Mid Channel (1MHz)	-10.5	Horiz
12	9704.000M	57.8	+37.7 +5.8	+1.6 +3.0	+0.4	-63.1	+0.0	43.2	54.0 Mid Channel (2MHz)	-10.8	Vert
13	9704.000M	57.8	+37.7 +5.8	+1.6 +3.0	+0.4	-63.1	+0.0	43.2	54.0 Mid Channel (1MHz)	-10.8	Horiz
14	9704.620M	57.6	+37.7 +5.8	+1.6 +3.0	+0.4	-63.1	+0.0	43.0	54.0 Mid Channel (2MHz)	-11.0	Horiz
15	9608.000M	58.0	+37.4 +5.9	+1.6 +3.0	+0.3	-63.2	+0.0	43.0	54.0 Low Channel (2MHz)	-11.0	Vert

16	7206.000M	60.9	+35.4 +4.5	+1.4 +2.5	+0.3	-62.5	+0.0	42.5	54.0 Low Channel (1MHz)	-11.5	Horiz
17	9920.740M	56.6	+38.1 +5.8	+1.7 +3.0	+0.3	-63.1	+0.0	42.4	54.0 High Channel (2MHz)	-11.6	Vert
18	4960.740M	65.5	+32.7 +3.6	+1.1 +2.0	+0.3	-62.9	+0.0	42.3	54.0 High Channel (2MHz)	-11.7	Vert
19	7278.620M	60.4	+35.9 +4.5	+1.4 +2.6	+0.3	-62.8	+0.0	42.3	54.0 Mid Channel (2MHz)	-11.7	Horiz
20	4804.000M	65.6	+32.6 +3.6	+1.1 +2.0	+0.3	-63.0	+0.0	42.2	54.0 Low Channel (2MHz)	-11.8	Vert
21	4959.920M	65.3	+32.7 +3.6	+1.1 +2.0	+0.3	-62.9	+0.0	42.1	54.0 High Channel (1MHz)	-11.9	Horiz
22	4804.000M	65.3	+32.6 +3.6	+1.1 +2.0	+0.3	-63.0	+0.0	41.9	54.0 Low Channel (1MHz)	-12.1	Vert
23	4804.000M	65.1	+32.6 +3.6	+1.1 +2.0	+0.3	-63.0	+0.0	41.7	54.0 Low Channel (2MHz)	-12.3	Horiz
24	7278.000M	59.8	+35.9 +4.5	+1.4 +2.6	+0.3	-62.8	+0.0	41.7	54.0 Mid Channel (1MHz)	-12.3	Vert
25	4959.920M	64.9	+32.7 +3.6	+1.1 +2.0	+0.3	-62.9	+0.0	41.7	54.0 High Channel (1MHz)	-12.3	Vert
26	7278.000M	59.3	+35.9 +4.5	+1.4 +2.6	+0.3	-62.8	+0.0	41.2	54.0 Mid Channel (1MHz)	-12.8	Horiz
27	4851.140M	64.0	+33.0 +3.6	+1.1 +2.0	+0.3	-62.8	+0.0	41.2	54.0 Mid Channel (2MHz)	-12.8	Vert
28	7439.920M	58.3	+36.4 +4.6	+1.4 +2.6	+0.3	-62.9	+0.0	40.7	54.0 High Channel (1MHz)	-13.3	Horiz
29	7206.000M	58.7	+35.4 +4.5	+1.4 +2.5	+0.3	-62.5	+0.0	40.3	54.0 Low Channel (2MHz)	-13.7	Horiz
30	7439.920M	57.9	+36.4 +4.6	+1.4 +2.6	+0.3	-62.9	+0.0	40.3	54.0 High Channel (1MHz)	-13.7	Vert
31	7440.740M	57.8	+36.4 +4.6	+1.4 +2.6	+0.3	-62.9	+0.0	40.2	54.0 High Channel (2MHz)	-13.8	Vert
32	4959.660M	63.3	+32.7 +3.6	+1.1 +2.0	+0.3	-62.9	+0.0	40.1	54.0 High Channel (2MHz)	-13.9	Horiz

33	7206.000M	58.2	+35.4 +4.5	+1.4 +2.5	+0.3	-62.5	+0.0	39.8	54.0 Low Channel (2MHz)	-14.2	Vert
34	4852.000M	62.3	+33.0 +3.6	+1.1 +2.0	+0.3	-62.8	+0.0	39.5	54.0 Mid Channel (1MHz)	-14.5	Vert
35	7206.000M	57.8	+35.4 +4.5	+1.4 +2.5	+0.3	-62.5	+0.0	39.4	54.0 Low Channel (1MHz)	-14.6	Vert
36	4804.000M	62.4	+32.6 +3.6	+1.1 +2.0	+0.3	-63.0	+0.0	39.0	54.0 Low Channel (1MHz)	-15.0	Horiz
37	2426.000M	67.7	+28.3 +2.5	+0.8 +1.4	+33.6	-62.1	+0.0	72.2	125.2 Mid Channel (1MHz)	-53.0	Horiz
38	2402.000M	66.3	+28.1 +2.5	+0.7 +1.4	+35.2	-62.2	+0.0	72.0	125.2 Low Channel (1MHz)	-53.2	Vert
39	2425.580M	67.1	+28.3 +2.5	+0.8 +1.4	+33.7	-62.1	+0.0	71.7	125.2 Mid Channel (2MHz)	-53.5	Horiz
40	2402.000M	64.5	+28.1 +2.5	+0.7 +1.4	+35.2	-62.2	+0.0	70.2	125.2 Low Channel (1MHz)	-55.0	Horiz
41	2402.000M	64.5	+28.1 +2.5	+0.7 +1.4	+35.2	-62.2	+0.0	70.2	125.2 Low Channel (2MHz)	-55.0	Vert
42	2425.580M	62.9	+28.3 +2.5	+0.8 +1.4	+33.7	-62.1	+0.0	67.5	125.2 Mid Channel (2MHz)	-57.7	Vert
43	2479.920M	67.0	+28.4 +2.6	+0.8 +1.4	+29.1	-62.3	+0.0	67.0	125.2 High Channel (1MHz)	-58.2	Horiz
44	2479.920M	67.0	+28.4 +2.6	+0.8 +1.4	+29.1	-62.3	+0.0	67.0	125.2 High Channel (2MHz)	-58.2	Vert
45	2426.000M	62.2	+28.3 +2.5	+0.8 +1.4	+33.6	-62.1	+0.0	66.7	125.2 Mid Channel (1MHz)	-58.5	Vert
46	2402.000M	60.1	+28.1 +2.5	+0.7 +1.4	+35.2	-62.2	+0.0	65.8	125.2 Low Channel (2MHz)	-59.4	Horiz
47	2479.920M	65.7	+28.4 +2.6	+0.8 +1.4	+29.1	-62.3	+0.0	65.7	125.2 High Channel (1MHz)	-59.5	Vert
48	2479.660M	62.3	+28.4 +2.6	+0.8 +1.4	+29.1	-62.3	+0.0	62.3	125.2 High Channel (2MHz)	-62.9	Horiz

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **WaveLynx Technologies Corporation**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **111609** Date: 8/1/2025
 Test Type: **Radiated Scan** Time: 11:25:55
 Tested By: Jonathan Wharton Sequence#: 32
 Software: EMITest 5.03.20

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 3			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 3			

Test Conditions / Notes:

Radiated Spurious Emissions Frequency Range: 12GHz-18GHz Method: ANSI C63.10 Test Environment Conditions: Temperature: 22.7°C Humidity: 45% Pressure: 101.6kPa Highest generated frequency: 2480MHz The EUT is operated as intended. It is powered by a DC power supply at 12VDC. All functions are operational Note Low Channel (1MHz/2MHz) / Mid Channel (1MHz/2MHz) / High Channel (1MHz/2MHz) / 125kHz / 13.5MHz Modification #1 was in place during testing.

WaveLynx Technologies Corporation WQ#: 111609 Sequence#: 32 Date: 8/1/2025
15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Horiz



— Readings
× QP Readings
▼ Ambient
— 1 - 15.247(d) / 15.209 Radiated Spurious Emissions

○ Peak Readings
* Average Readings
Software Version: 5.03.20

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02660	Spectrum Analyzer	E4446A	1/7/2025	1/7/2027
T1	ANP07703	Cable	32022-29094K-29094K-120TC	8/16/2024	8/16/2026
T2	ANP00928	Cable	various	1/26/2024	1/26/2026
T3	ANP07705	Cable	32022-29094K-29094K-120TC	8/16/2024	8/16/2026
T4	AN02693	Active Horn Antenna	AMFW-5F-12001800-20-10P	1/9/2024	1/9/2026

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	16982.030 M	42.5	+6.0	+0.5	+5.8	-12.5	+0.0	42.3	54.0	-11.7	Vert
									Mid Channel (1MHz)		
2	16982.030 M	42.5	+6.0	+0.5	+5.8	-12.5	+0.0	42.3	54.0	-11.7	Horiz
									Mid Channel (1MHz)		
3	17360.030 M	41.1	+6.0	+0.5	+5.8	-11.3	+0.0	42.1	54.0	-11.9	Vert
									High Channel (1MHz)		
4	17360.030 M	41.1	+6.0	+0.5	+5.8	-11.3	+0.0	42.1	54.0	-11.9	Horiz
									High Channel (2MHz)		
5	17360.030 M	40.1	+6.0	+0.5	+5.8	-11.3	+0.0	41.1	54.0	-12.9	Vert
									High Channel (2MHz)		
6	17360.030 M	39.9	+6.0	+0.5	+5.8	-11.3	+0.0	40.9	54.0	-13.1	Horiz
									High Channel (1MHz)		
7	16982.030 M	40.9	+6.0	+0.5	+5.8	-12.5	+0.0	40.7	54.0	-13.3	Horiz
									Mid Channel (2MHz)		
8	12009.850 M	43.3	+4.9	+0.7	+4.7	-13.2	+0.0	40.4	54.0	-13.6	Horiz
									Low Channel (1MHz)		
9	14556.030 M	42.4	+5.5	+0.6	+5.3	-13.4	+0.0	40.4	54.0	-13.6	Horiz
									Mid Channel (1MHz)		
10	16814.030 M	41.4	+5.9	+0.5	+5.7	-13.2	+0.0	40.3	54.0	-13.7	Vert
									Low Channel (2MHz)		
11	14880.030 M	41.7	+5.6	+0.6	+5.4	-13.2	+0.0	40.1	54.0	-13.9	Vert
									High Channel (2MHz)		
12	16982.030 M	40.2	+6.0	+0.5	+5.8	-12.5	+0.0	40.0	54.0	-14.0	Vert
									Mid Channel (2MHz)		

13	14880.030 M	41.5	+5.6	+0.6	+5.4	-13.2	+0.0	39.9	54.0	-14.1	Vert
									High Channel (1MHz)		
14	16814.030 M	41.0	+5.9	+0.5	+5.7	-13.2	+0.0	39.9	54.0	-14.1	Vert
									Low Channel (1MHz)		
15	16814.030 M	40.8	+5.9	+0.5	+5.7	-13.2	+0.0	39.7	54.0	-14.3	Horiz
									Low Channel (2MHz)		
16	14556.030 M	41.5	+5.5	+0.6	+5.3	-13.4	+0.0	39.5	54.0	-14.5	Vert
									Mid Channel (1MHz)		
17	16813.850 M	40.0	+5.9	+0.5	+5.7	-13.2	+0.0	38.9	54.0	-15.1	Horiz
									Low Channel (1MHz)		
18	14412.030 M	41.1	+5.5	+0.6	+5.3	-13.6	+0.0	38.9	54.0	-15.1	Vert
									Low Channel (2MHz)		
19	14556.030 M	40.7	+5.5	+0.6	+5.3	-13.4	+0.0	38.7	54.0	-15.3	Vert
									Mid Channel (2MHz)		
20	12130.030 M	41.8	+5.0	+0.7	+4.8	-13.6	+0.0	38.7	54.0	-15.3	Vert
									Mid Channel (2MHz)		
21	14880.030 M	40.2	+5.6	+0.6	+5.4	-13.2	+0.0	38.6	54.0	-15.4	Horiz
									High Channel (2MHz)		
22	14880.030 M	40.2	+5.6	+0.6	+5.4	-13.2	+0.0	38.6	54.0	-15.4	Horiz
									High Channel (1MHz)		
23	14412.030 M	40.7	+5.5	+0.6	+5.3	-13.6	+0.0	38.5	54.0	-15.5	Horiz
									Low Channel (2MHz)		
24	12400.030 M	41.9	+5.0	+0.6	+4.8	-13.8	+0.0	38.5	54.0	-15.5	Vert
									High Channel (2MHz)		
25	14411.850 M	40.7	+5.5	+0.6	+5.3	-13.6	+0.0	38.5	54.0	-15.5	Horiz
									Low Channel (1MHz)		

26	14556.030 M	40.4	+5.5	+0.6	+5.3	-13.4	+0.0	38.4	54.0	-15.6	Horiz
Mid Channel (2MHz)											
27	14412.030 M	40.4	+5.5	+0.6	+5.3	-13.6	+0.0	38.2	54.0	-15.8	Vert
Low Channel (1MHz)											
28	12010.030 M	40.6	+4.9	+0.7	+4.7	-13.2	+0.0	37.7	54.0	-16.3	Vert
Low Channel (1MHz)											
29	12400.030 M	41.0	+5.0	+0.6	+4.8	-13.8	+0.0	37.6	54.0	-16.4	Horiz
High Channel (1MHz)											
30	12400.030 M	40.8	+5.0	+0.6	+4.8	-13.8	+0.0	37.4	54.0	-16.6	Horiz
High Channel (2MHz)											
31	12010.030 M	40.1	+4.9	+0.7	+4.7	-13.2	+0.0	37.2	54.0	-16.8	Horiz
Low Channel (2MHz)											
32	12130.030 M	40.1	+5.0	+0.7	+4.8	-13.6	+0.0	37.0	54.0	-17.0	Vert
Mid Channel (1MHz)											
33	12010.030 M	39.6	+4.9	+0.7	+4.7	-13.2	+0.0	36.7	54.0	-17.3	Vert
Low Channel (2MHz)											
34	12130.030 M	39.8	+5.0	+0.7	+4.8	-13.6	+0.0	36.7	54.0	-17.3	Horiz
Mid Channel (1MHz)											
35	12130.030 M	39.4	+5.0	+0.7	+4.8	-13.6	+0.0	36.3	54.0	-17.7	Horiz
Mid Channel (2MHz)											
36	12400.030 M	39.4	+5.0	+0.6	+4.8	-13.8	+0.0	36.0	54.0	-18.0	Vert
High Channel (1MHz)											

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **WaveLynx Technologies Corporation**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **111609** Date: 8/1/2025
 Test Type: **Radiated Scan** Time: 12:17:39
 Tested By: Jonathan Wharton Sequence#: 35
 Software: EMITest 5.03.20

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 3			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 3			

Test Conditions / Notes:

Radiated Spurious Emissions Frequency Range: 18GHz-26GHz Method: ANSI C63.10 Test Environment Conditions: Temperature: 22.7°C Humidity: 45% Pressure: 101.6kPa Highest generated frequency: 2480MHz The EUT is operated as intended. It is powered by a DC power supply at 12VDC. All functions are operational Note Low Channel (1MHz/2MHz) / Mid Channel (1MHz/2MHz) / High Channel (1MHz/2MHz) / 125kHz / 13.5MHz Modification #1 was in place during testing.

WaveLynx Technologies Corporation WQ#: 111609 Sequence#: 35 Date: 8/1/2025
15.247(d) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Horiz



— Readings
× QP Readings
▼ Ambient
— 1 - 15.247(d) / 15.209 Radiated Spurious Emissions

○ Peak Readings
* Average Readings
Software Version: 5.03.20

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02660	Spectrum Analyzer	E4446A	1/7/2025	1/7/2027
T1	ANP07703	Cable	32022-29094K-29094K-120TC	8/16/2024	8/16/2026
T2	ANP00929	Cable	various	1/26/2024	1/26/2026
T3	ANP07705	Cable	32022-29094K-29094K-120TC	8/16/2024	8/16/2026
T4	AN02694	Horn Antenna	AMFW-5F-18002650-20-10P	1/9/2024	1/9/2026

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	24800.030 M	46.1	+7.5	+2.8	+7.3	-15.8	+0.0	47.9	54.0	-6.1	Horiz
									High Channel (2MHz)		
2	24800.030 M	45.9	+7.5	+2.8	+7.3	-15.8	+0.0	47.7	54.0	-6.3	Vert
									High Channel (1MHz)		
3	24800.030 M	45.8	+7.5	+2.8	+7.3	-15.8	+0.0	47.6	54.0	-6.4	Horiz
									High Channel (1MHz)		
4	24800.030 M	45.7	+7.5	+2.8	+7.3	-15.8	+0.0	47.5	54.0	-6.5	Vert
									High Channel (2MHz)		
5	24020.030 M	43.5	+7.3	+2.6	+7.0	-16.2	+0.0	44.2	54.0	-9.8	Horiz
									Low Channel (2MHz)		
6	24260.030 M	43.0	+7.4	+2.7	+7.1	-16.1	+0.0	44.1	54.0	-9.9	Horiz
									Mid Channel (2MHz)		
7	24020.030 M	43.4	+7.3	+2.6	+7.0	-16.2	+0.0	44.1	54.0	-9.9	Vert
									Low Channel (1MHz)		
8	24260.030 M	42.4	+7.4	+2.7	+7.1	-16.1	+0.0	43.5	54.0	-10.5	Vert
									Mid Channel (2MHz)		
9	21834.030 M	43.6	+6.9	+2.6	+6.7	-16.3	+0.0	43.5	54.0	-10.5	Vert
									Mid Channel (2MHz)		
10	24020.030 M	42.4	+7.3	+2.6	+7.0	-16.2	+0.0	43.1	54.0	-10.9	Vert
									Low Channel (2MHz)		
11	24020.030 M	42.2	+7.3	+2.6	+7.0	-16.2	+0.0	42.9	54.0	-11.1	Horiz
									Low Channel (1MHz)		
12	24260.030 M	41.5	+7.4	+2.7	+7.1	-16.1	+0.0	42.6	54.0	-11.4	Horiz
									Mid Channel (2MHz)		

13	22320.030 M	42.5	+7.1	+2.5	+6.8	-16.5	+0.0	42.4	54.0	-11.6	Horiz
									High Channel (1MHz)		
14	19840.030 M	41.6	+6.6	+2.9	+6.3	-15.6	+0.0	41.8	54.0	-12.2	Vert
									High Channel (2MHz)		
15	22320.030 M	41.9	+7.1	+2.5	+6.8	-16.5	+0.0	41.8	54.0	-12.2	Vert
									High Channel (1MHz)		
16	24260.030 M	40.4	+7.4	+2.7	+7.1	-16.1	+0.0	41.5	54.0	-12.5	Vert
									Mid Channel (2MHz)		
17	22320.030 M	41.5	+7.1	+2.5	+6.8	-16.5	+0.0	41.4	54.0	-12.6	Horiz
									High Channel (2MHz)		
18	21834.030 M	41.5	+6.9	+2.6	+6.7	-16.3	+0.0	41.4	54.0	-12.6	Horiz
									Mid Channel (2MHz)		
19	21834.030 M	41.4	+6.9	+2.6	+6.7	-16.3	+0.0	41.3	54.0	-12.7	Horiz
									Mid Channel (2MHz)		
20	21618.030 M	41.4	+6.9	+2.6	+6.6	-16.2	+0.0	41.3	54.0	-12.7	Horiz
									Low Channel (1MHz)		
21	19216.030 M	41.1	+6.4	+3.0	+6.2	-15.5	+0.0	41.2	54.0	-12.8	Vert
									Low Channel (2MHz)		
22	19408.030 M	41.0	+6.5	+3.0	+6.2	-15.5	+0.0	41.2	54.0	-12.8	Horiz
									Mid Channel (2MHz)		
23	19408.030 M	40.6	+6.5	+3.0	+6.2	-15.5	+0.0	40.8	54.0	-13.2	Vert
									Mid Channel (2MHz)		
24	19216.030 M	40.4	+6.4	+3.0	+6.2	-15.5	+0.0	40.5	54.0	-13.5	Horiz
									Low Channel (1MHz)		
25	19840.030 M	40.0	+6.6	+2.9	+6.3	-15.6	+0.0	40.2	54.0	-13.8	Horiz
									High Channel (2MHz)		

26	22320.030 M	40.3	+7.1	+2.5	+6.8	-16.5	+0.0	40.2	54.0	-13.8	Vert
									High Channel (2MHz)		
27	19840.030 M	40.0	+6.6	+2.9	+6.3	-15.6	+0.0	40.2	54.0	-13.8	Horiz
									High Channel (1MHz)		
28	21618.030 M	40.0	+6.9	+2.6	+6.6	-16.2	+0.0	39.9	54.0	-14.1	Vert
									Low Channel (1MHz)		
29	19216.030 M	39.8	+6.4	+3.0	+6.2	-15.5	+0.0	39.9	54.0	-14.1	Vert
									Low Channel (1MHz)		
30	19408.030 M	39.6	+6.5	+3.0	+6.2	-15.5	+0.0	39.8	54.0	-14.2	Vert
									Mid Channel (2MHz)		
31	19840.030 M	39.5	+6.6	+2.9	+6.3	-15.6	+0.0	39.7	54.0	-14.3	Vert
									High Channel (1MHz)		
32	19216.030 M	39.6	+6.4	+3.0	+6.2	-15.5	+0.0	39.7	54.0	-14.3	Horiz
									Low Channel (2MHz)		
33	21834.030 M	39.7	+6.9	+2.6	+6.7	-16.3	+0.0	39.6	54.0	-14.4	Vert
									Mid Channel (2MHz)		
34	21618.030 M	39.5	+6.9	+2.6	+6.6	-16.2	+0.0	39.4	54.0	-14.6	Horiz
									Low Channel (2MHz)		
35	19408.030 M	39.0	+6.5	+3.0	+6.2	-15.5	+0.0	39.2	54.0	-14.8	Horiz
									Mid Channel (2MHz)		
36	21618.030 M	38.9	+6.9	+2.6	+6.6	-16.2	+0.0	38.8	54.0	-15.2	Vert
									Low Channel (2MHz)		

Band Edge

Band Edge Summary

Limit applied at restricted bands: 15.209

Limit applied for other than restricted bands: Max Power/100kHz - 20dB.

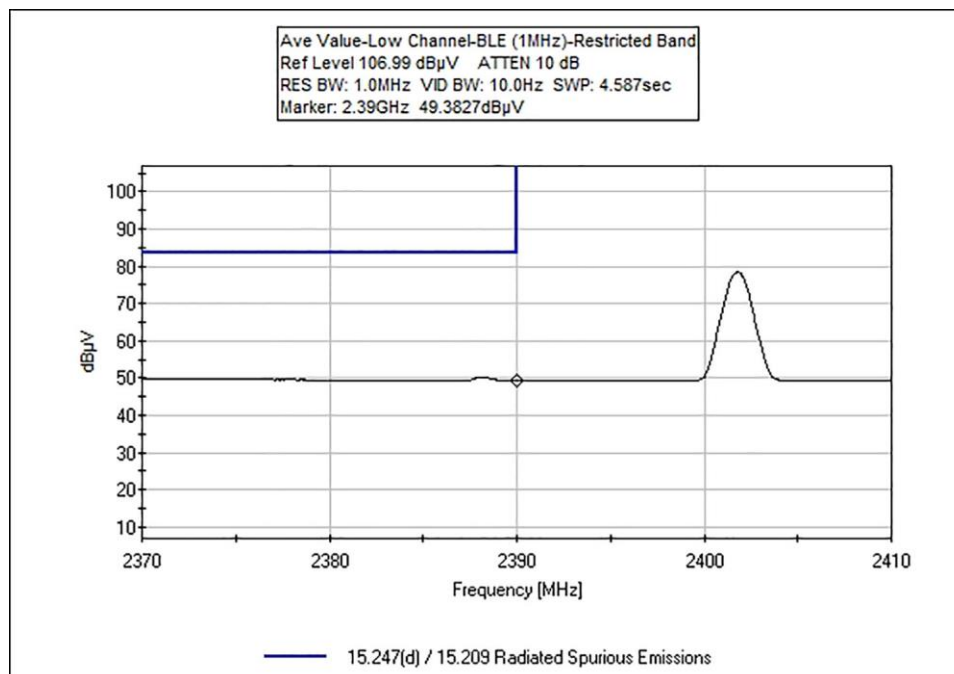
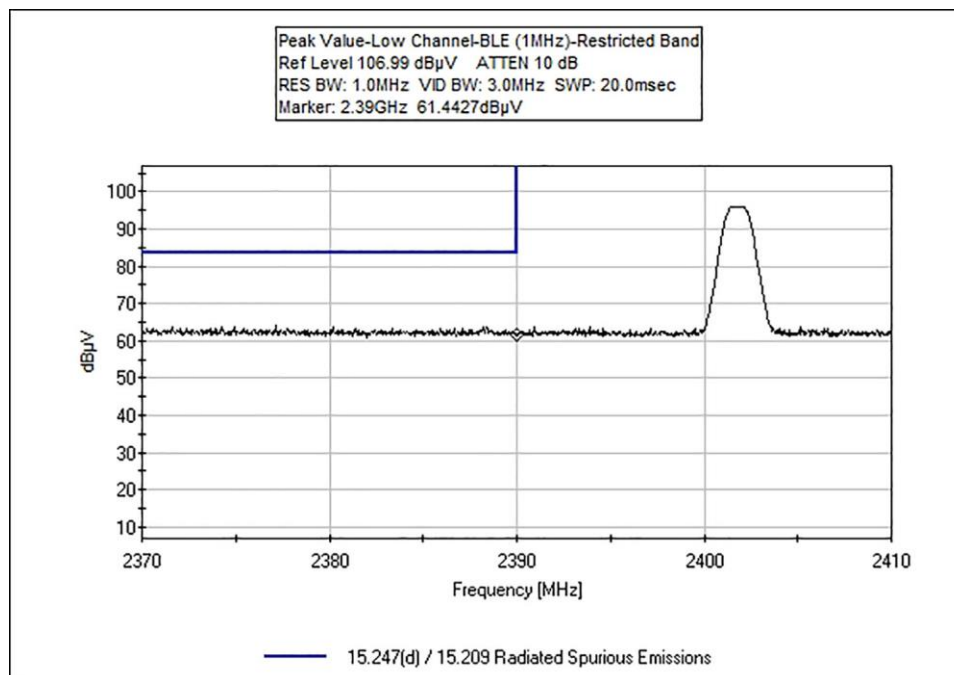
Frequency (MHz)	Modulation	Ant. Type / Gain (dBi)	Average (dBuV/m @3m)		Peak (dBuV/m @3m)		Results
			Measured	Limit	Measured	Limit	
2390.0	GFSK 1MHz	Integral / 2.8	49.4	≤54	61.4	≤74	Pass
2390.0	GFSK 2MHz	Integral / 2.8	50.9	≤54	63.0	≤74	Pass
2400.0	GFSK 1MHz	Integral / 2.8	N/A2	N/A2	57.2	≤88	Pass
2400.0	GFSK 2MHz	Integral / 2.8	N/A2	N/A2	74.0	≤88	Pass
2483.5	GFSK 1MHz	Integral / 2.8	50.9	≤54	62.6	≤74	Pass
2483.5	GFSK 2MHz	Integral / 2.8	51.2	≤54	61.1	≤74	Pass

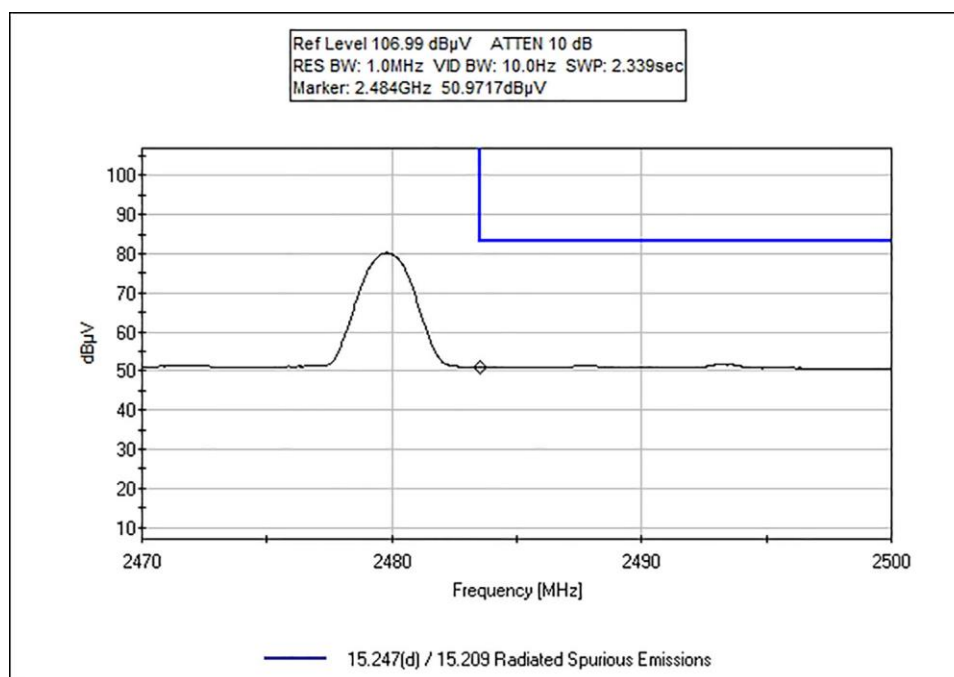
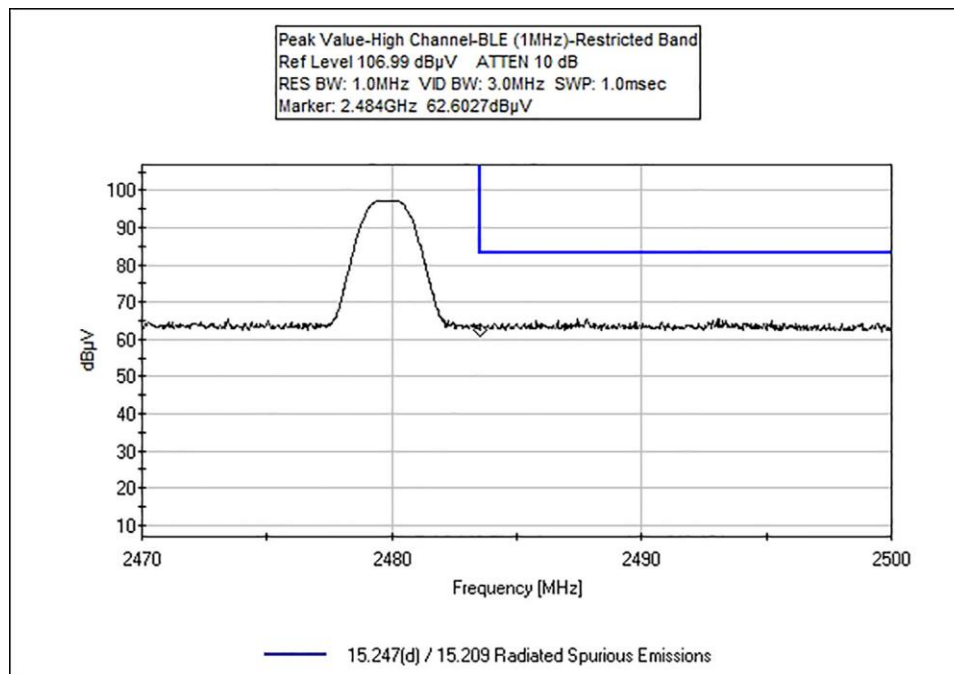
Notes:

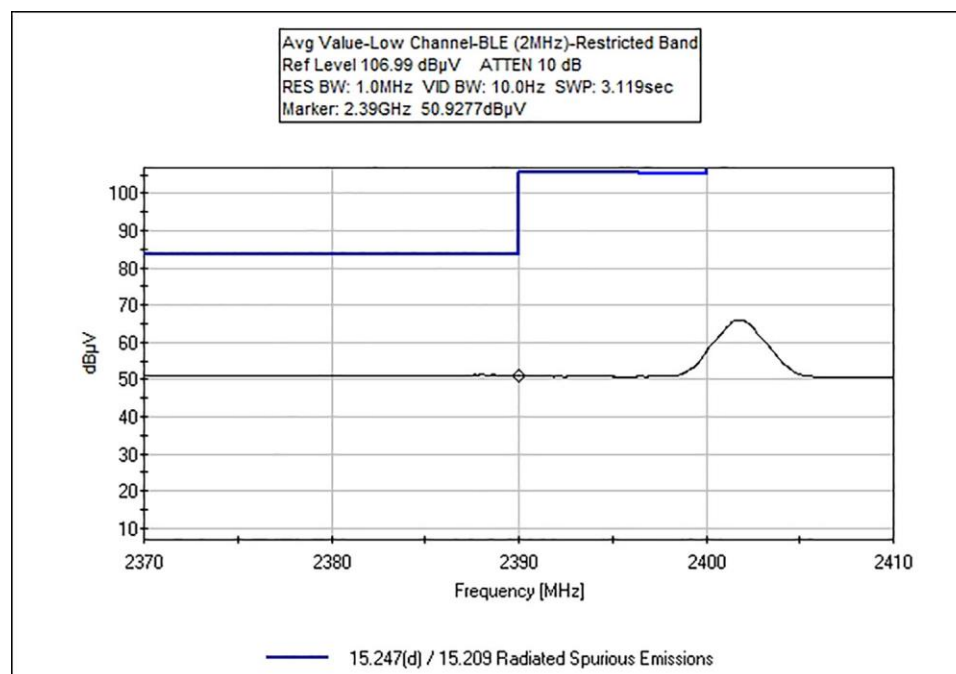
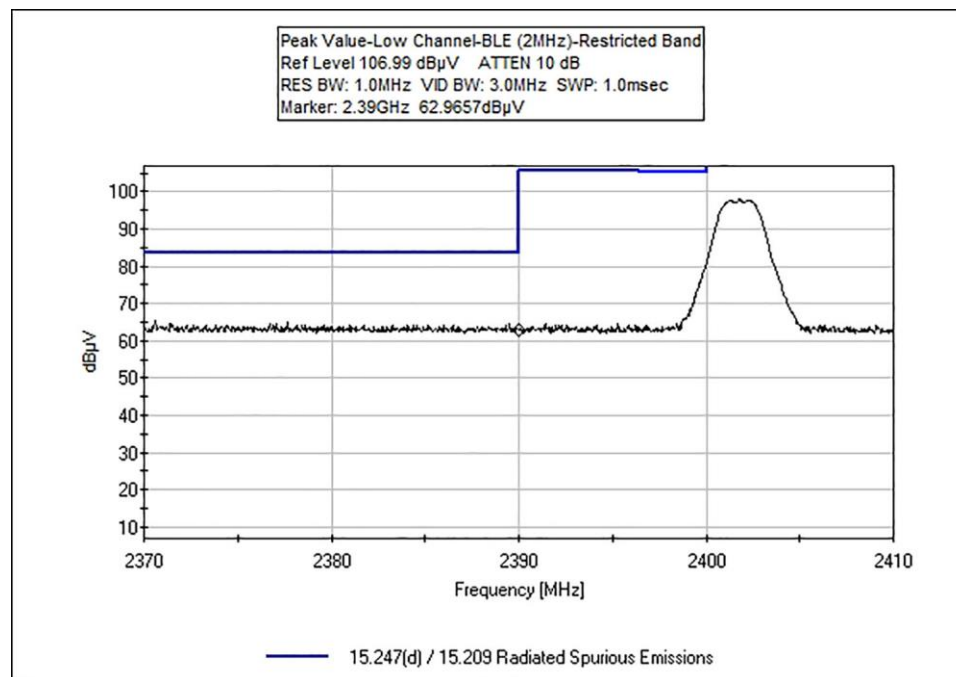
NA1	Peak measurement meets average limit.
NA2	Average limit not applicable when applying 20dBc limit.
NA3	Peak limit not applicable when applying 30dBc limit.

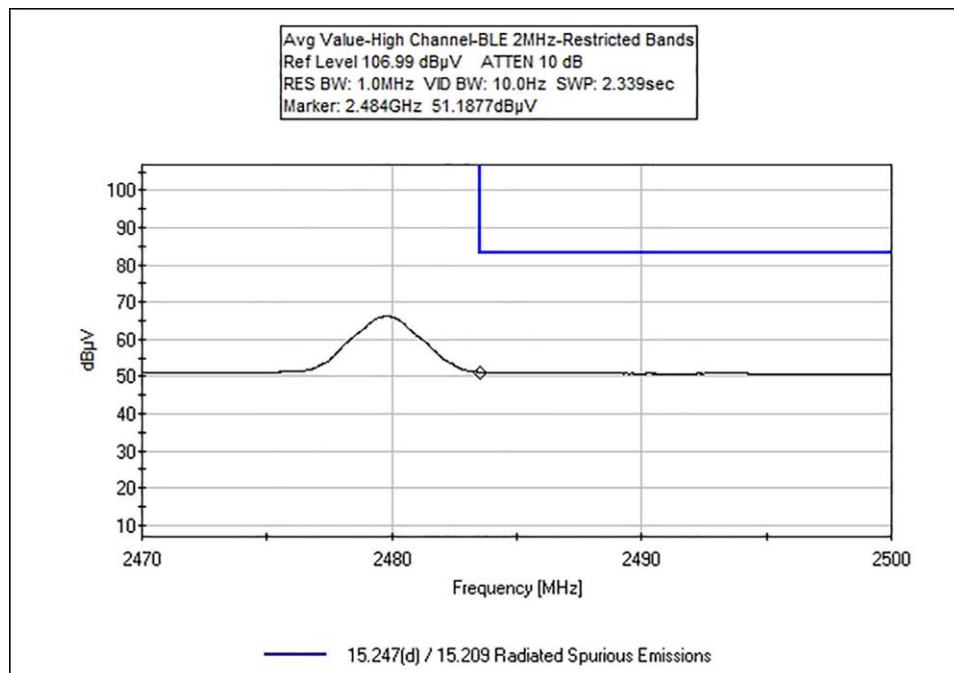
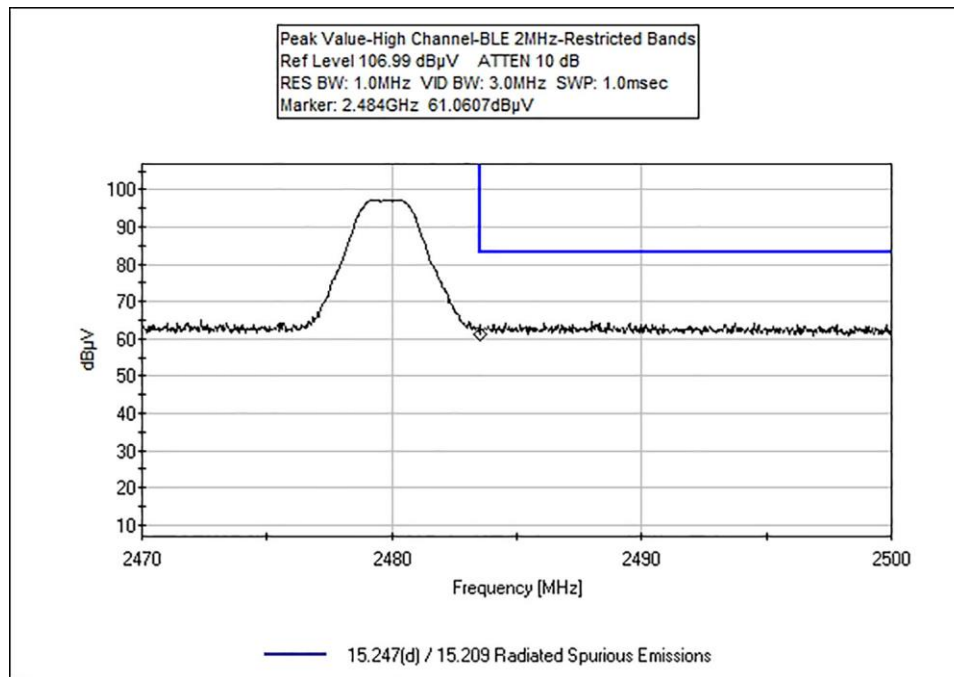
Band Edge Plots

NOTE: Displayed limit corrected for all measuring equipment for comparison with the data.









Test Setup / Conditions / Data

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **WaveLynx Technologies Corporation**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **111609** Date: 7/30/2025
 Test Type: **Radiated Scan** Time: 15:13:16
 Tested By: Jonathan Wharton Sequence#: 18
 Software: EMITest 5.03.20

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 3			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 3			

Test Conditions / Notes:

Radiated Spurious Emissions Frequency Range: 1GHz to 12GHz Method: ANSI C63.10 Test Environment Conditions: Temperature: 22.7°C Humidity: 45% Pressure: 101.6kPa Highest generated frequency: 2480MHz The EUT is operated as intended. It is powered by a DC power supply at 12VDC. All functions are operational Note Low Channel (1MHz/2MHz) / Mid Channel (1MHz/2MHz) / High Channel (1MHz/2MHz)

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157ANSI	Horn Antenna	3115	2/12/2025	2/12/2027
T2	ANP06904	Cable	32022-29094K-29094K-36TC	1/9/2024	1/9/2026
T3	AN03861	Preamp	BZRY-00101800-251057-202222	2/11/2025	2/11/2027
T4	ANP01210	Cable	FSJ1P-50A-4A	1/9/2024	1/9/2026
T5	AN03302	Cable	32026-29094K-29094K-72TC	1/9/2024	1/9/2026
	AN02660	Spectrum Analyzer	E4446A	1/7/2025	1/7/2027

Measurement Data:

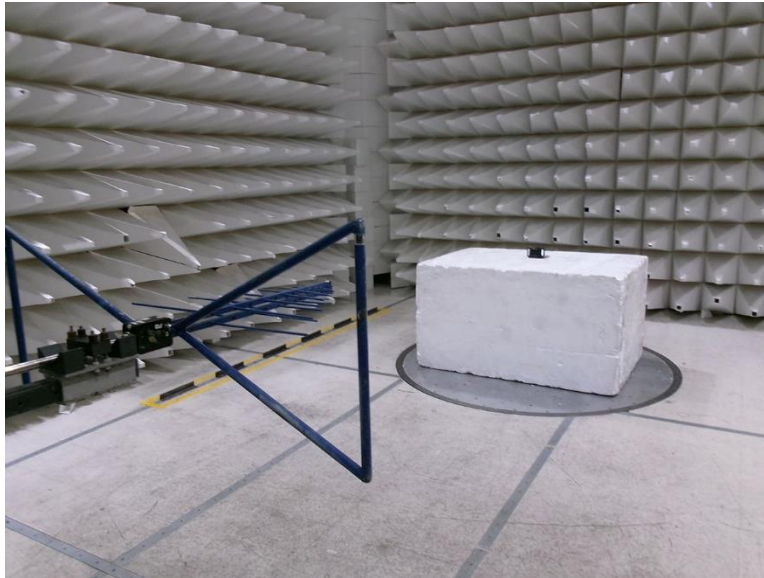
Reading listed by margin.

Test Distance: 3 Meters

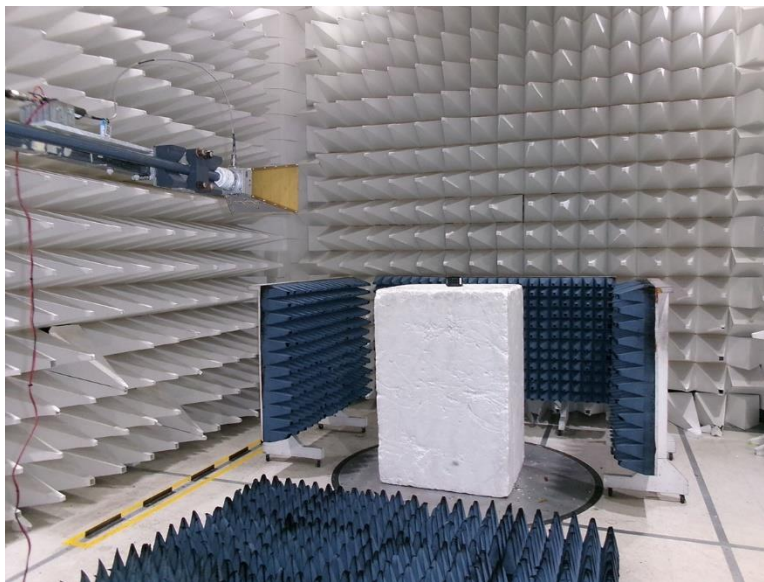
#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	2401.800M	98.1	+0.0 +0.0	+0.0	+0.0	+0.0	+0.0	98.1	98.2	-0.1	Vert
									Low Channel (2MHz) Peak Reading		
2	2484.000M	62.8	+28.4 +1.4	+0.8	-62.3	+2.6	+0.0	33.7	54.0	-20.3	Vert
									High Channel (1MHz) Restricted Band PK		
3	2483.500M	61.0	+28.4 +1.4	+0.8	-62.3	+2.6	+0.0	31.9	54.0	-22.1	Vert
									High Channel (2MHz) Restricted Band PK		
4	2483.500M	51.2	+28.4 +1.4	+0.8	-62.3	+2.6	+0.0	22.1	54.0	-31.9	Vert
									High Channel (2MHz) Restricted Band AVG		
5	2483.500M	50.9	+28.4 +1.4	+0.8	-62.3	+2.6	+0.0	21.8	54.0	-32.2	Vert
									High Channel (1MHz) Restricted Band AVG		

6	2390.000M Ave	49.4	+28.1 +1.3	+0.7	-62.2	+2.5	+0.0	19.8	54.0	-34.2	Vert
									Low Channel (1MHz) Restricted Band AVG		
^	2390.000M	62.0	+28.1 +1.3	+0.7	-62.2	+2.5	+0.0	32.4	54.0	-21.6	Vert
									Low Channel (2MHz) Restricted Band PK		
^	2390.000M	60.9	+28.1 +1.3	+0.7	-62.2	+2.5	+0.0	31.3	54.0	-22.7	Vert
									Low Channel (1MHz) Restricted Band PK		
^	2390.000M	50.9	+28.1 +1.3	+0.7	-62.2	+2.5	+0.0	21.3	54.0	-32.7	Vert
									Low Channel (2MHz) Restricted Band AVG		
10	2400.000M	53.7	+28.1 +1.4	+0.7	-62.2	+2.5	+0.0	24.2	76.0	-51.8	Vert
									Low Channel (1MHz) Peak Reading		

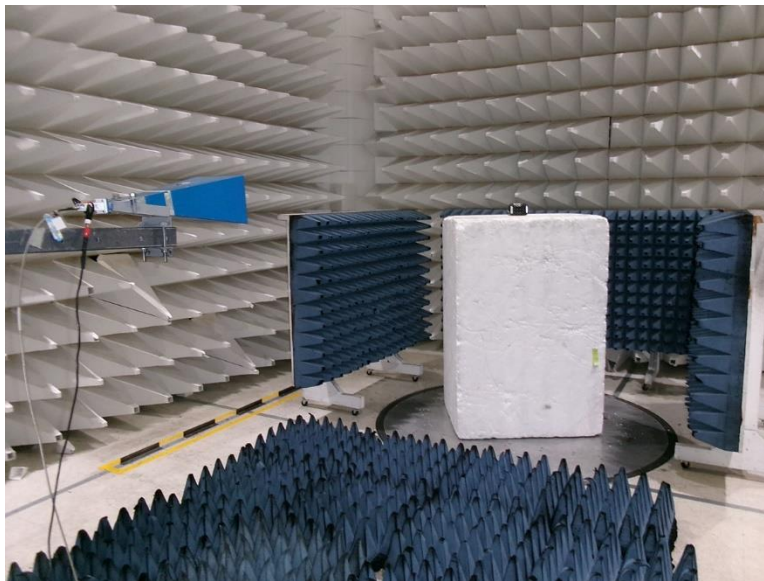
Test Setup Photo(s)



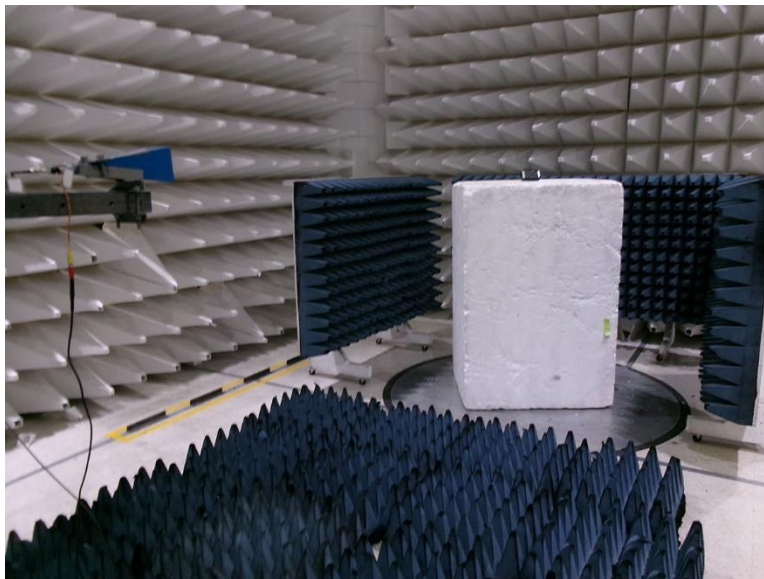
Below 1GHz, C1



1GHz-12GHz, C1



12GHz-18GHz, C1



18GHz-26.5GHz, C1

15.207 AC Conducted Emissions

Test Setup/Conditions

Test Location:	Fremont Chamber 3	Test Engineer:	Hieu Nguyenpham
Test Method:	ANSI C63.10 (2020)	Test Date(s):	7/22/2025
Configuration:	1		

Environmental Conditions

Temperature (°C)	23.6	Relative Humidity (%):	44
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Test Setup / Conditions / Data

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **WaveLynx Technologies Corporation**
 Specification: **15.207 AC Mains - Average**
 Work Order #: **111609** Date: 7/22/2025
 Test Type: **Conducted Emissions** Time: 12:27:30
 Tested By: Hieu Song Nguyenpham Sequence#: 1
 Software: EMITest 5.03.20 120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

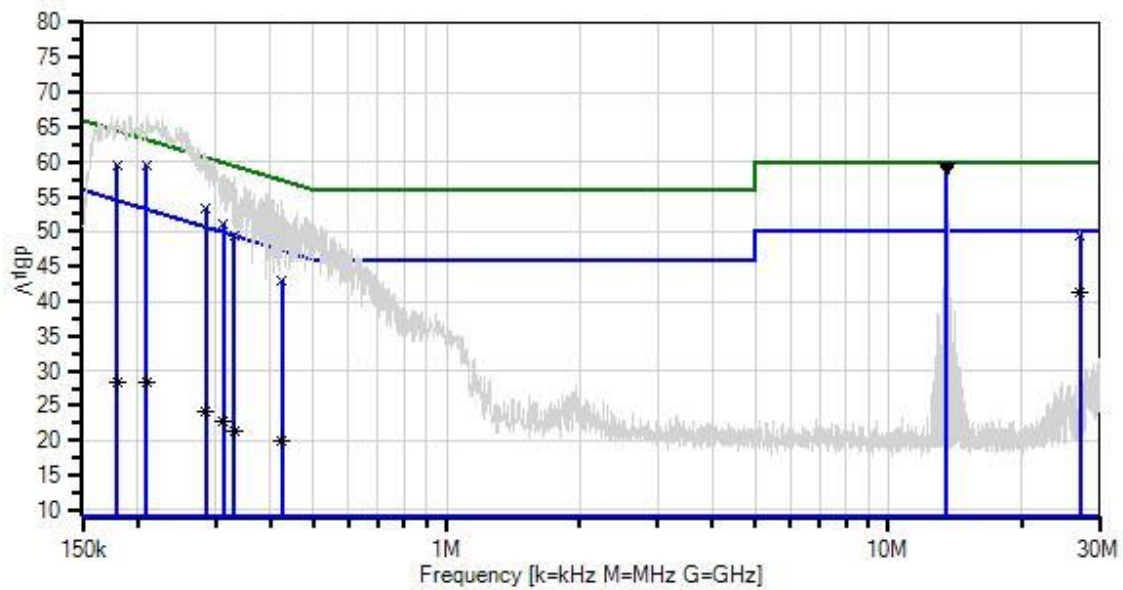
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Emission Frequency Range: 150kHz to 30MHz Test Environment Conditions: Temperature: 23.6° C Relative Humidity: 44% Atmospheric Pressure: 101.9kPa Highest generated frequency: 2480MHz The EUT is operated as intended. It is powered by DC power supply at 12VDC. All functions is on Please see separate report demonstrating compliance for 13.56MHz transmitter. Note All the transmitter is in Normal Operate Mode

WaveLynx Technologies Corporation WQ#: 111609 Sequence#: 1 Date: 7/22/2025
15.207 AC Mains - Average Test Lead: 120V 60Hz Line



— Sweep Data
× QP Readings
Software Version: 5.03.20
— Readings
* Average Readings
— 1 - 15.207 AC Mains - Average
○ Peak Readings
▲ Ambient
— 2 - 15.207 AC Mains - Quasi-peak

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN03814	50uH LISN-1PH-Line (dB)	NSLK 8126	1/13/2025	1/13/2027
	AN03814	50uH LISN-1PH-Neutral (dB)	NSLK 8126	1/13/2025	1/13/2027
T2	ANP01211	Attenuator	23-10-34	12/2/2024	12/2/2026
T3	ANP00880	Cable	RG214U	3/26/2024	3/26/2026
T4	ANP06691	Cable	PE3062-180	3/20/2024	3/20/2026
T5	ANP05258	High Pass Filter	HE9615-150K-50-720B	5/6/2024	5/6/2026
	AN02660	Spectrum Analyzer	E4446A	1/7/2025	1/7/2027

Measurement Data:			Reading listed by margin.					Test Lead: Line			
#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV	dBμV	dB	Ant
1	13.571M Ambient	48.3	+0.4 +0.1	+9.9	+0.3	+0.1	+0.0	59.1	50.0 Fundamental of 13.56MHz Transmitter	+9.1	Line
2	209.631k QP	49.5	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	59.6	63.2	-3.6	Line
3	179.631k QP	49.3	+0.1 +0.3	+9.7	+0.1	+0.0	+0.0	59.5	64.5	-5.0	Line
4	285.260k QP	43.3	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	53.4	60.7	-7.3	Line
5	27.121M Ave	29.9	+0.6 +0.2	+9.9	+0.5	+0.2	+0.0	41.3	50.0	-8.7	Line
6	312.894k QP	41.1	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	51.2	59.9	-8.7	Line
7	331.074k QP	39.2	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	49.3	59.4	-10.1	Line
8	27.121M QP	38.1	+0.6 +0.2	+9.9	+0.5	+0.2	+0.0	49.5	60.0	-10.5	Line
^	27.121M	39.0	+0.6 +0.2	+9.9	+0.5	+0.2	+0.0	50.4	50.0	+0.4	Line
10	423.429k QP	32.9	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	43.0	57.4	-14.4	Line
11	209.631k Ave	18.1	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	28.2	53.2	-25.0	Line
^	209.631k	57.1	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	67.2	53.2	+14.0	Line
13	179.631k Ave	18.2	+0.1 +0.3	+9.7	+0.1	+0.0	+0.0	28.4	54.5	-26.1	Line
^	179.631k	56.3	+0.1 +0.3	+9.7	+0.1	+0.0	+0.0	66.5	54.5	+12.0	Line
15	285.260k Ave	14.1	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	24.2	50.7	-26.5	Line
^	285.260k	49.9	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	60.0	50.7	+9.3	Line
17	312.894k Ave	12.6	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	22.7	49.9	-27.2	Line
^	312.894k	48.8	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	58.9	49.9	+9.0	Line
19	423.429k Ave	9.8	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	19.9	47.4	-27.5	Line
^	423.429k	42.4	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	52.5	47.4	+5.1	Line
21	331.074k Ave	11.3	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	21.4	49.4	-28.0	Line
^	331.074k	48.4	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	58.5	49.4	+9.1	Line

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **WaveLynx Technologies Corporation**
 Specification: **15.207 AC Mains - Average**
 Work Order #: **111609** Date: 7/22/2025
 Test Type: **Conducted Emissions** Time: 13:22:40
 Tested By: Hieu Song Nguyenpham Sequence#: 2
 Software: EMITest 5.03.20 120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

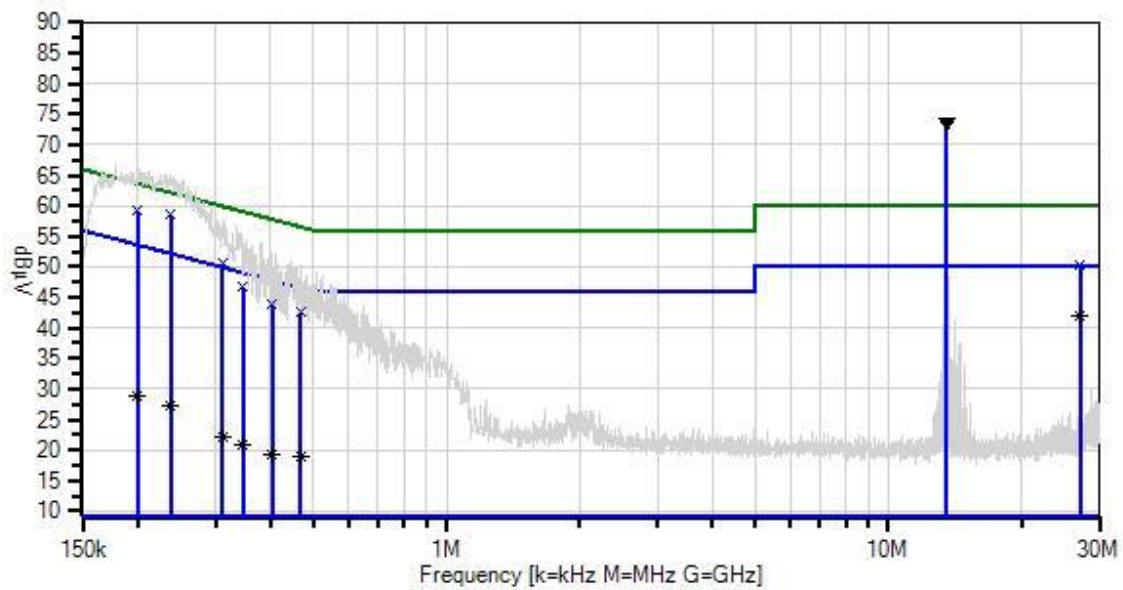
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Emission Frequency Range: 150kHz to 30MHz Test Environment Conditions: Temperature: 23.6° C Relative Humidity: 44% Atmospheric Pressure: 101.9kPa Highest generated frequency: 2480MHz The EUT is operated as intended. It is powered by DC power supply at 12VDC. All functions is on Please see separate report demonstrating compliance for 13.56MHz transmitter. Note All the transmitter is in Normal Operate Mode

WaveLynx Technologies Corporation WQ#: 111609 Sequence#: 2 Date: 7/22/2025
15.207 AC Mains - Average Test Lead: 120V 60Hz Neutral



— Sweep Data
× QP Readings
Software Version: 5.03.20
— Readings
* Average Readings
— 1 - 15.207 AC Mains - Average
○ Peak Readings
▲ Ambient
— 2 - 15.207 AC Mains - Quasi-peak

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03814	50uH LISN-1PH-Line (dB)	NSLK 8126	1/13/2025	1/13/2027
T1	AN03814	50uH LISN-1PH-Neutral (dB)	NSLK 8126	1/13/2025	1/13/2027
T2	ANP01211	Attenuator	23-10-34	12/2/2024	12/2/2026
T3	ANP00880	Cable	RG214U	3/26/2024	3/26/2026
T4	ANP06691	Cable	PE3062-180	3/20/2024	3/20/2026
T5	ANP05258	High Pass Filter	HE9615-150K-50-720B	5/6/2024	5/6/2026
	AN02660	Spectrum Analyzer	E4446A	1/7/2025	1/7/2027

Measurement Data:

Reading listed by margin.

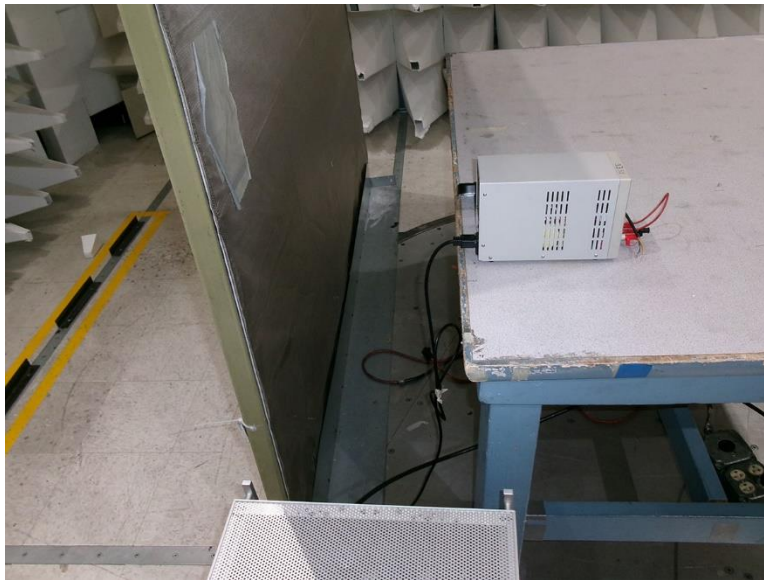
Test Lead: Neutral

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV	dBμV	dB	Ant
1	13.562M Ambient	62.7	+0.5 +0.1	+9.9	+0.3	+0.1	+0.0	73.6	50.0 Fundamental of 13.56MHz Transmitter	+23.6	Neutr
2	237.264k QP	48.4	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	58.6	62.2	-3.6	Neutr
3	200.000k QP	49.0	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	59.2	63.6	-4.4	Neutr
4	27.121M Ave	30.4	+0.7 +0.2	+9.9	+0.5	+0.2	+0.0	41.9	50.0	-8.1	Neutr
5	311.439k QP	40.4	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	50.6	59.9	-9.3	Neutr
6	27.121M QP	38.7	+0.7 +0.2	+9.9	+0.5	+0.2	+0.0	50.2	60.0	-9.8	Neutr
^	27.121M	39.4	+0.7 +0.2	+9.9	+0.5	+0.2	+0.0	50.9	50.0	+0.9	Neutr
8	345.617k QP	36.5	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	46.7	59.1	-12.4	Neutr
9	403.794k QP	33.6	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	43.8	57.8	-14.0	Neutr
10	467.061k QP	32.4	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	42.6	56.6	-14.0	Neutr
11	200.000k Ave	18.6	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	28.8	53.6	-24.8	Neutr
^	200.000k	56.6	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	66.8	53.6	+13.2	Neutr
13	237.264k Ave	16.9	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	27.1	52.2	-25.1	Neutr
^	237.264k	54.7	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	64.9	52.2	+12.7	Neutr
15	467.061k Ave	8.8	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	19.0	46.6	-27.6	Neutr
^	467.061k	41.9	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	52.1	46.6	+5.5	Neutr
17	311.439k Ave	12.1	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	22.3	49.9	-27.6	Neutr
^	311.439k	47.2	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	57.4	49.9	+7.5	Neutr
19	345.617k Ave	10.5	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	20.7	49.1	-28.4	Neutr
^	345.617k	45.2	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	55.4	49.1	+6.3	Neutr
21	403.794k Ave	9.0	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	19.2	47.8	-28.6	Neutr
^	403.794k	43.3	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	53.5	47.8	+5.7	Neutr

Test Setup Photo(s)



Front View



Side View

Appendix A: Manufacturer Declaration

The following device/models were tested by CKC Laboratories, Inc.:

Device: RFID Access Control Reader, APEX

Model: AX-25

The manufacturer declares that the following additional model is identical electrically or any differences between them do not affect their EMC characteristics, and therefore meets the level of testing equivalent to the tested model.

Model: AX-20

Supplemental Information

Measurement Uncertainty

Uncertainty Value	Parameter
5.77 dB	Radiated Emissions
0.673 dB	RF Conducted Measurements
5.77×10^{-10}	Frequency Deviation
0.00005 s	Time Deviation
3.18 dB	Mains Conducted Emissions

Uncertainties reported are worst case for all CKC Laboratories' sites and represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k=2$. Compliance is deemed to occur provided measurements are below the specified limits.

Emissions Test Details

TESTING PARAMETERS

Unless otherwise indicated, the following configuration parameters are used for equipment setup: The cables were routed consistent with the typical application by varying the configuration of the test sample. Interface cables were connected to the available ports of the test unit. The effect of varying the position of the cables was investigated to find the configuration that produced maximum emissions. Cables were of the type and length specified in the individual requirements. The length of cable that produced maximum emissions was selected.

The equipment under test (EUT) was set up in a manner that represented its normal use, as shown in the setup photographs. Any special conditions required for the EUT to operate normally are identified in the comments that accompany the emissions tables.

The emissions data was taken with a spectrum analyzer or receiver. Incorporating the applicable correction factors for distance, antenna, cable loss and amplifier gain, the data was reduced as shown in the table below. The corrected data was then compared to the applicable emission limits. Preliminary and final measurements were taken in order to ensure that all emissions from the EUT were found and maximized.

CORRECTION FACTORS

The basic spectrum analyzer reading was converted using correction factors as shown in the highest emissions readings in the tables. For radiated emissions in $\text{dB}\mu\text{V}/\text{m}$, the spectrum analyzer reading in $\text{dB}\mu\text{V}$ was corrected by using the following formula. This reading was then compared to the applicable specification limit. Individual measurements were compared with the displayed limit value in the margin column. The margin was calculated based on subtracting the limit value from the corrected measurement value; a positive margin represents a measurement exceeding the limit, while a negative margin represents a measurement less than the limit.

SAMPLE CALCULATIONS		
	Meter reading	($\text{dB}\mu\text{V}$)
+	Antenna Factor	(dB/m)
+	Cable Loss	(dB)
-	Distance Correction	(dB)
-	Preamplifier Gain	(dB)
=	Corrected Reading	($\text{dB}\mu\text{V}/\text{m}$)

TEST INSTRUMENTATION AND ANALYZER SETTINGS

The test instrumentation and equipment listed were used to collect the emissions data. A spectrum analyzer or receiver was used for all measurements. Unless otherwise specified, the following table shows the measuring equipment bandwidth settings that were used in designated frequency bands. For testing emissions, an appropriate reference level and a vertical scale size of 10 dB per division were used.

MEASURING EQUIPMENT BANDWIDTH SETTINGS PER FREQUENCY RANGE			
TEST	BEGINNING FREQUENCY	ENDING FREQUENCY	BANDWIDTH SETTING
CONDUCTED EMISSIONS	150 kHz	30 MHz	9 kHz
RADIATED EMISSIONS	9 kHz	150 kHz	200 Hz
RADIATED EMISSIONS	150 kHz	30 MHz	9 kHz
RADIATED EMISSIONS	30 MHz	1000 MHz	120 kHz
RADIATED EMISSIONS	1000 MHz	>1 GHz	1 MHz

SPECTRUM ANALYZER/RECEIVER DETECTOR FUNCTIONS

The notes that accompany the measurements contained in the emissions tables indicate the type of detector function used to obtain the given readings. Unless otherwise noted, all readings were made in the "positive peak" detector mode. Whenever a "quasi-peak" or "average" reading was recorded, the measurement was annotated with a "QP" or an "Ave" on the appropriate rows of the data sheets. In cases where quasi-peak or average limits were employed and data exists for multiple measurement types for the same frequency then the peak measurement was retained in the report for reference, however the numbering for the affected row was removed and an arrow or caret ("^") was placed in the far left-hand column indicating that the row above takes precedence for comparison to the limit. The following paragraphs describe in more detail the detector functions and when they were used to obtain the emissions data.

Peak

In this mode, the spectrum analyzer or receiver recorded all emissions at their peak value as the frequency band selected was scanned. By combining this function with another feature called "peak hold," the measurement device had the ability to measure intermittent or low duty cycle transient emission peak levels. In this mode the measuring device made a slow scan across the frequency band selected and measured the peak emission value found at each frequency across the band.

Quasi-Peak

Quasi-peak measurements were taken using the quasi-peak detector when the true peak values exceeded or were within 2 dB of a quasi-peak specification limit. Additional QP measurements may have been taken at the discretion of the operator.

Average

Average measurements were taken using the average detector when the true peak values exceeded or were within 2 dB of an average specification limit. Additional average measurements may have been taken at the discretion of the operator. If the specification or test procedure requires trace averaging, then the averaging was performed using 100 samples or as required by the specification. All other average measurements are performed using video bandwidth averaging. To make these measurements, the test engineer reduces the video bandwidth on the measuring device until the modulation of the signal is filtered out. At this point, the measuring device is set into the linear mode and the scan time is reduced.

End of Report