

COMPLIANCE WORLDWIDE INC. TEST REPORT 100-26

In Accordance with the Requirements of
Federal Communications Commission CFR Title 47 Part 15.225, Subpart C

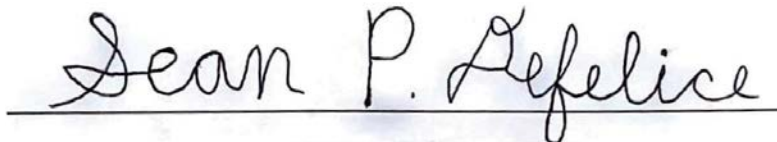
Issued to
Napco Security Technologies, Inc.
333 Bayview Avenue
Amityville, NY 11701

for the
13.56 MHz MIFARE Smart Card Reader
Model: R-MI

FCC ID: AD8R-MI

Report Issued on January 20, 2026

Tested by



Sean P. Defelice

Reviewed by



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1. Scope

This test report certifies that the Napco Security Technologies Model R-MI, as tested, meets the FCC Part 15.225 Subpart C requirements. The scope of this test report is limited to the test samples provided by the client, only in as much as those samples represent other production units. If any significant changes are made to the units, the changes shall be evaluated, and a retest may be required. Measurement Uncertainty will not be applied to any of the measurement / testing results in this test report to determine pass/fail criteria per the Decision Rule as defined in ISO/IEC Guide 17025-2017 Clause 3.7.

2. Product Details

2.1. Manufacturer:	Napco Security Technologies
2.2. Model Number:	R-MI
2.3. Serial Number:	Pre-production
2.4. Description:	NAPCO's 13.56MHz R-MI MIFARE Smart Card Reader is for use with NAPCO's MIFARE EV1 / EV2 / EV3 smart cards. The R-MI MIFARE Smart Card Reader provides secure, contact-less smart card technology with fast data transmission and advanced encryption.
2.5. Power Source:	7.5 to 16 VDC
2.6. Hardware Revision:	N/A
2.7. Software Revision:	N/A
2.8. Modulation Type:	ASK
2.9. Operating Frequency:	13.56 MHz
2.10. EMC Modifications:	None

3. Product Configuration

3.1. Operational Characteristics & Software

How to Determine that Software is Operating Correctly: Normal screen display and touch panel operation.

3.2. EUT Hardware

Device	Manufacturer	Model	Serial No.
13.56 MHz Reader	Napco Security	R-MI	Pre-production

3.3. EUT Cables/Transducers

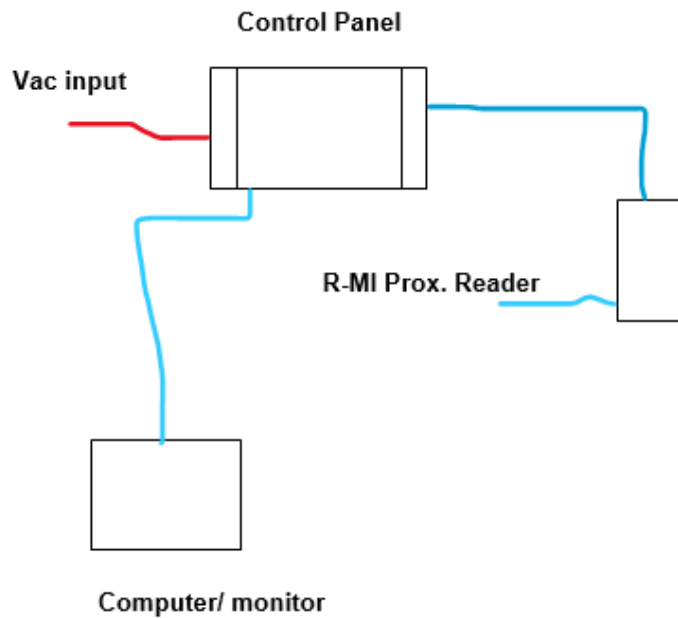
Cable Type	Shield	Length	From	To
Wiegand	No	2M	EUT	Data / Power

3.4. Support Equipment

Device	Manufacturer	Model	Serial No.
Control Panel	Napco Security	NA-1	MAC: D4F0B4F00209

3. Product Configuration (continued)

3.5. Block Diagram



4. Measurements Parameters

4.1. Measurement Equipment and Software Used to Perform Test

Device	Manufacturer	Model No.	Serial No.	Cal Due	Interval
EMI Test Receiver, 9 kHz - 7GHz ¹	Rohde & Schwarz	ESR7	101156	10/26/2026	5 Years
EMI Test Receiver, 10 Hz - 7GHz ¹	Rohde & Schwarz	ESR7	101770	7/23/2026	2 Years
EMI Test Receiver, 9 kHz – 26.5 GHz ¹	Rohde & Schwarz	ESR26	101693	6/26/2026	3 Years
Spectrum Analyzer, 9 kHz to 40 GHz ²	Rohde & Schwarz	FSV40	100899	6/27/2026	2 Years
Spectrum Analyzer 10 Hz to 40 GHz ³	Rohde & Schwarz	FSVR40	100909	9/18/2026	5 Years
Biconilog Antenna, 30 MHz - 2 GHz	Sunol Sciences	JB1	A050913	7/1/2026	5 Years
Loop Antenna 9 kHz - 30 MHz	EMCO	6512	9309-1139	4/14/2026	4 Years
Close Field Probe, 9 kHz – 30 MHz	Hewlett Packard	HP 11941A	2807A04892	CNR	
Barometric Pressure/Humidity & Temp Datalogger	Extech Instruments	SD700	Q590483	4/4/2026	2 Years
Digital Barometer	Control Company	4195	ID236	3/15/2026	2 Years
Multimeter with Thermocouple	Fluke	187	80350579	9/14/2026	3 Years
Temperature / Thermal Chamber	Associated Environmental	SD-308	10782	CNR	

¹ ESR7/26 Firmware revision: V3.48 SP3, Date installed: 09/30/2020

Previous V3.48 SP2, installed 07/23/2020.

² FSV40 Firmware revision: V2.30 SP4, Date installed: 05/04/2016

Previous V2.30 SP1, installed 10/22/2014.

³ FSVR40 Firmware revision: V2.23 SP1, Date installed: 08/19/2016

Previous V2.23, installed 10/22/2014.

Manufacturer	Software Description	Title or Model #	Rev.	Report Sections
Compliance Worldwide	Test Report Generation Software	Test Report Generator	1.0	Used to process conducted emissions data

4. Measurements Parameters (continued)

4.2. Measurement & Equipment Setup

Test Dates:	1/2/2026, 1/5/2026
Test Engineer:	Sean Defelice
Normal Site Temperature (15 – 35 °C):	21
Relative Humidity (20 - 75% RH):	42
Frequency Range:	9 kHz to 1 GHz
Measurement Distance:	3 & 1 Meters
EMI Receiver IF Bandwidth:	200 Hz – 10 to 150 kHz 9 kHz – 150 kHz to 30 MHz 120 kHz - 30 MHz to 1 GHz
EMI Receiver Avg Bandwidth:	$\geq 3 * RBW$
Detector Function:	Peak, QP - 30 MHz to 1 GHz Peak, Avg - Above 1 GHz Unless otherwise specified.

4.3 Measurement Procedure

The test measurements contained in this report are based on the requirements detailed in FCC Part 15, Subpart C - Intentional Radiators, notably Section 15.225, Operation within the band 13.110 – 14.010 MHz. The test procedures for these measurements are detailed in ANSI C63.10-2020.

5. Choice of Equipment for Test Suites

5.1. Choice of Model

This test report is based on the test samples supplied by the manufacturer and are reported by the manufacturer to be equivalent to the production units.

5.2. Presentation

The test sample was tested complete with all required ancillary equipment. Refer to Section 3 of this report for the product equipment configuration.

5.3. Choice of Operating Frequencies

The transmitter in the unit under test utilizes a single operating frequency at approximately 13.56 MHz.

6. Measurement Summary

Test Requirement	FCC Part 15 Reference	Test Report Section	Result	Comment
Antenna Requirement	15.203	7.1	Compliant	
Operation within the Band 13.110 MHz – 14.010 MHz (Radiated Field Strength)	15.225 (a), (b), (c)	7.2	Compliant	
Spurious Radiated Emissions	15.209	7.3	Compliant	
Operation within the Band 13.110 MHz – 14.010 MHz (Frequency Stability)	15.225 (e)	7.4	Compliant	
Occupied Bandwidth/ Lower and Upper Band Edges	15.215(c) C63.10	7.5	Compliant	
Power Line Conducted Emissions	15.207	7.6	Compliant	

7. Measurement Data

7.1. Antenna Requirement (Section 15.203)

Requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section.

Status: The RFID antenna utilized by the device under test is a PCB antenna contained inside a non-user accessible enclosure.

Result: Compliant

7. Measurement Data (continued)

7.2. Operation within the Band 13.110 MHz – 14.010 MHz (15.225 (a), (b) and (c))

Radiated Field Strength of Fundamental (15.225 (a), (b) and (c))

- Requirement: (a) The field strength of any emissions within the band 13.553 - 13.567 MHz shall not exceed 15,848 microvolts/meter (84 dBμV/m) at 30 meters.
- (b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter (50.5 dBμV/m) at 30 meters.
- (c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter (40.5 dBμV/m) at 30 meters.

Test Note: Reference ANSI C63.10-2020 sections 5.3.2 and 6.4.4.2. The following formula was used to extrapolate the measurement distance to the limit distance:

$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left(\frac{d_{\text{near field}}}{d_{\text{measure}}} \right) - 20 \log \left(\frac{d_{\text{limit}}}{d_{\text{near field}}} \right) \quad \text{Equation 1}$$

FS_{limit} is the calculation of field strength at the limit distance (dBμV/m)

44.86

FS_{max} is the measured field strength, expressed in (dBμV/m QP @ 3M)

66.25

$d_{\text{near field}}$ is the $\lambda / 2\pi$ distance (Meters)

3.52

d_{measure} is the distance of the measurement point from the EUT (Meters)

3.00

d_{limit} is the reference limit distance (Meters)

30.00

The screen captures on the following pages display the value measured at a distance of 3 meters. This distance value was adjusted to the limit distance using the formula detailed in Equation 1.

Result: Compliant - The fundamental frequency radiated field strength of the device under test complies with the requirements detailed in FCC Part 15.225, Section (a).

The peak field strength of the device under test met the average requirement. For this reason, the quasi-peak field strength was not adjusted using a duty cycle correction factor.

Freq. (MHz)	Corr. Ampl. ¹ (dBμV/m) (3M) Peak	Corr. Ampl. ¹ (dBμV/m) (3M) QP	Corr. Ampl. ¹ (dBμV/m) (30M) QP	FCC 15.225 Limit (dBμV/m) QP 30M	Margin (dB)	Ant Pos. Par/Per Gnd Par	Ant Height (cm)	Turntable Azimuth (Deg)	Result
13.56	70.79	66.25	44.86	84.00	-39.14	Parallel	100	350	Compliant

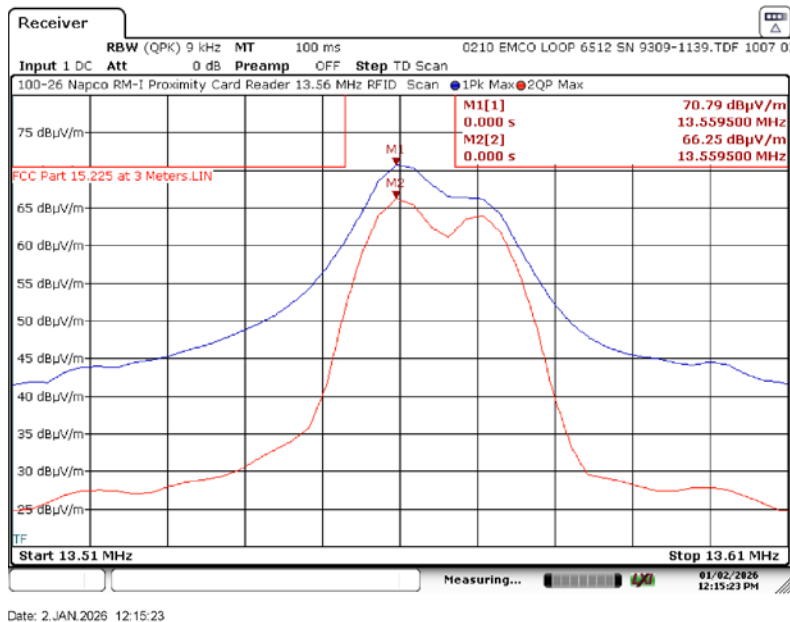
¹ Measurement has been extrapolated from 3 meters to 30 meters using Equation 1 on this page.

7. Measurement Data (continued)

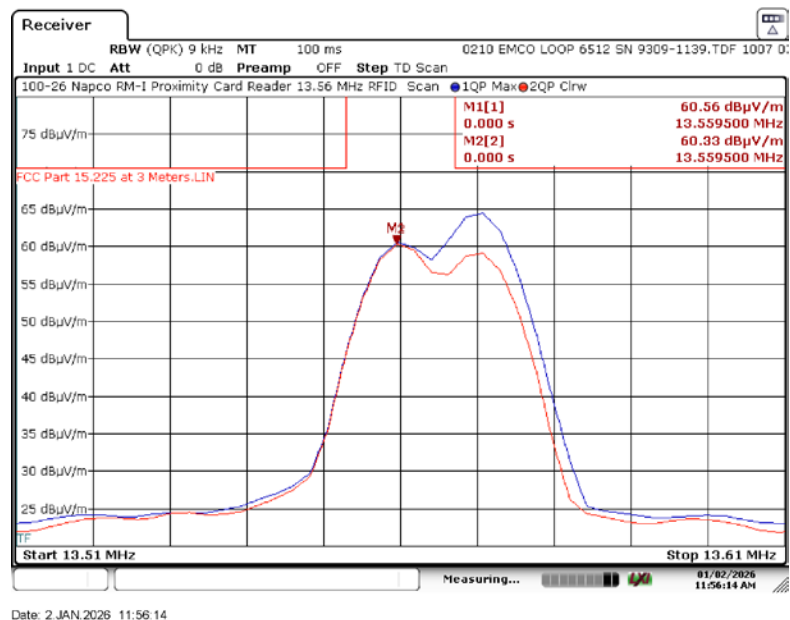
7.2. Operation within the Band 13.110 MHz – 14.010 MHz (15.225 (a), (b) and (c))

Radiated Field Strength of Fundamental (15.225 (a), (b) and (c)) (continued)

7.2.1. Worst Case Field Strength of the Fundamental – Parallel Antenna



7.2.2. Worst Case Field Strength of the Fundamental – Perpendicular Antenna

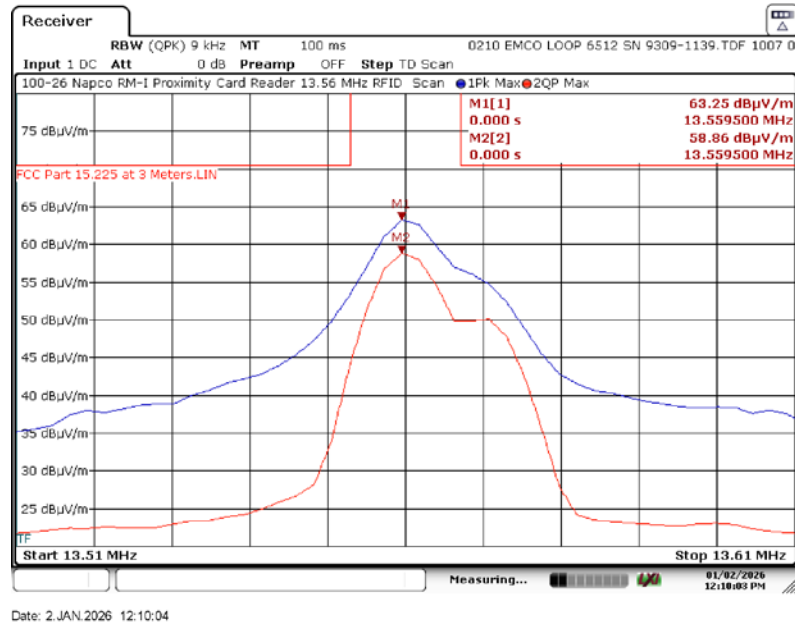


7. Measurement Data (continued)

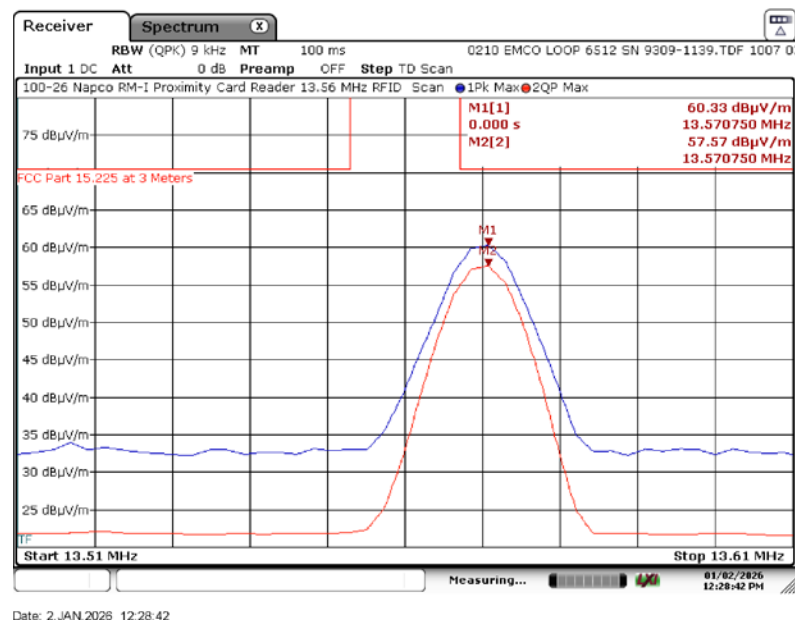
7.2. Operation within the Band 13.110 MHz – 14.010 MHz (15.225 (a), (b) and (c))

Radiated Field Strength of Fundamental (15.225 (a), (b) and (c)) (continued)

7.2.3. Worst Case Field Strength of the Fundamental – Ground Parallel Antenna



7.2.4. Worst Case Field Strength of the Fundamental – Ambient Signal



Note: Radio Marti broadcasting on 13.57 MHz Shortwave out of Greenville, NC

7. Measurement Data (continued)

7.3. Transmitter Spurious Radiated Emissions (15.225 (d), 15.209)

Requirement: The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table (Reference FCC 15.209):

Frequency (MHz)	Field Strength (μV/m)	Meas. Dist. (meters)	Field Strength (dBμV/m)	Distance (Meters)
0.009–0.490	2400/F(kHz)	300	128.5 to 93.8	3
0.490–1.705	24000/F(kHz)	30	73.8 to 63.0	3
1.705–30.0	30	30	69.5	3
30–88	100	3	40	3
88–216	150	3	43.5	3
216–960	200	3	46	3
Above 960	500	3	54	3

¹ Measurements in the 9 to 90 kHz, 110 to 490 kHz and above 1000 MHz ranges employ an average detector. Otherwise, a quasi-peak detector is used.

² Extrapolation below 30 MHz is calculated at 40 dB/decade.

Procedure: Test measurements were made in accordance with ANSI C63.10-2020: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices, Section 6.5.

Results: Compliant - The transmitter installed in the unit under test meets the FCC Part 15.209 emissions requirements.

Sample Calculation: Final Result (dBμV/m) = Measurement Value (dBμV) + Antenna Factor (dB/m) + Cable Loss (dB) – Pre-amplifier Gain (dB) Internal or External.

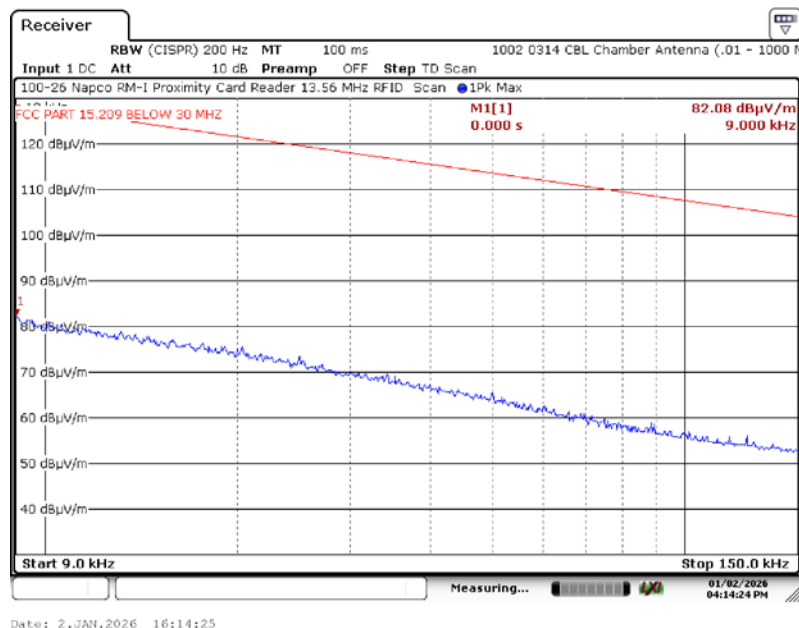
Note: All correction factors are loaded into the measurement instrument prior to testing to determine the final result.

7. Measurement Data (continued)

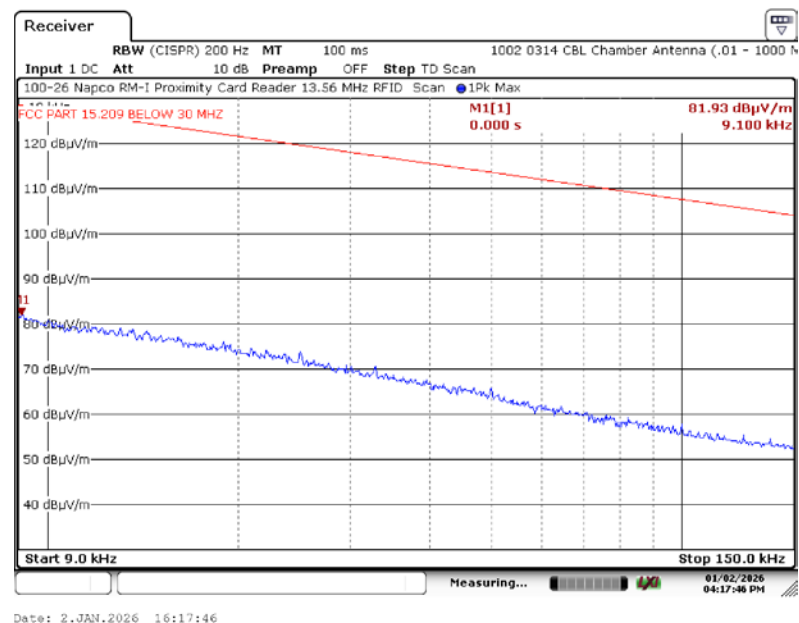
7.3. Spurious Radiated Emissions, 9 kHz to 1 GHz (15.225, § (d), 15.209) (cont'd)

7.3.1. Spurious Radiated Emissions, 9 kHz to 150 kHz Test Results

7.3.1.1. Parallel Antenna



7.3.1.2. Perpendicular Antenna

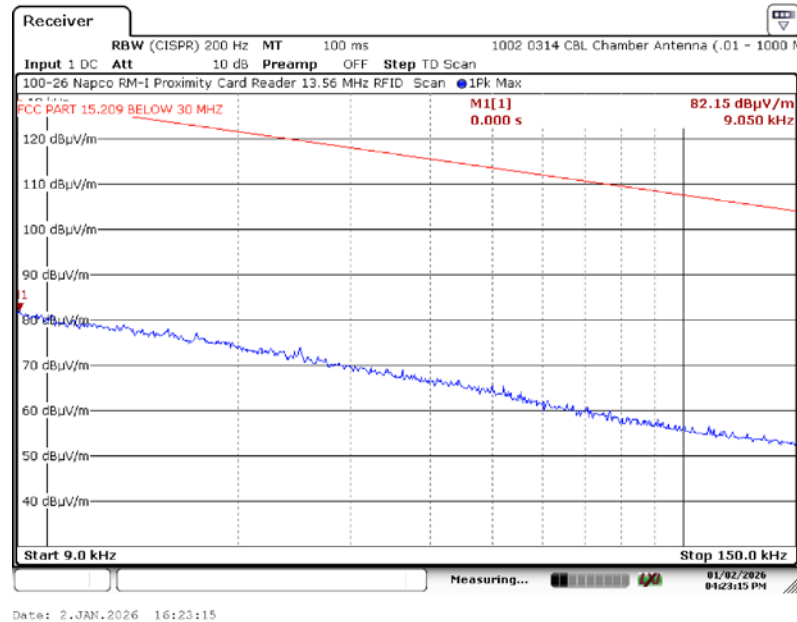


7. Measurement Data (continued)

7.3. Spurious Radiated Emissions, 9 kHz to 1 GHz (15.225, § (d), 15.209) (cont'd)

7.3.1. Spurious Radiated Emissions, 9 kHz to 150 kHz Test Results

7.3.1.3. Ground Parallel Antenna

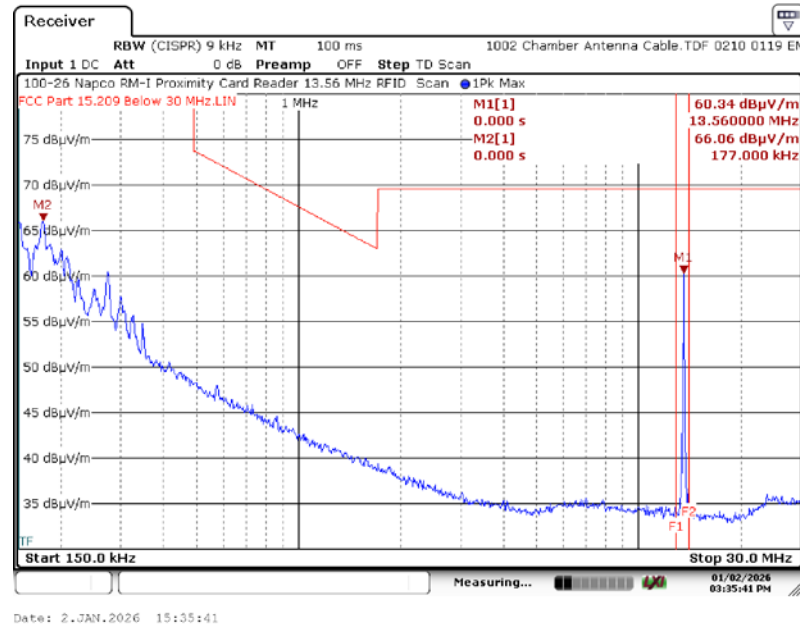


7. Measurement Data (continued)

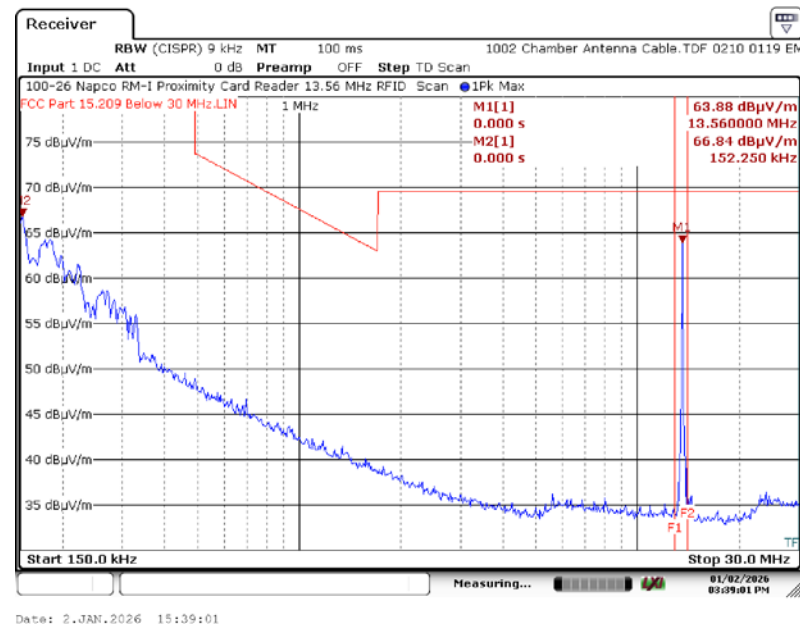
7.3. Spurious Radiated Emissions, 9 kHz to 1 GHz (15.225, § (d), 15.209) (cont'd)

7.3.2. Spurious Radiated Emissions, 150 kHz to 30 MHz Test Results

7.3.2.1. Parallel Antenna



7.3.2.2. Perpendicular Antenna

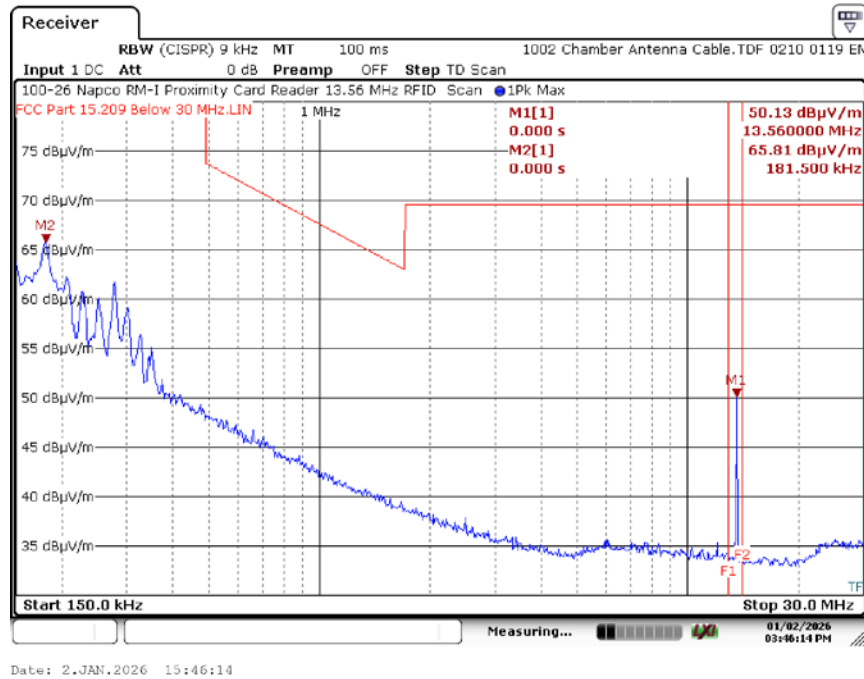


7. Measurement Data (continued)

7.3. Spurious Radiated Emissions, 9 kHz to 1 GHz (15.225, § (d), 15.209) (cont'd)

7.3.2. Spurious Radiated Emissions, 150 kHz to 30 MHz Test Results

7.3.2.3. Ground Parallel Antenna

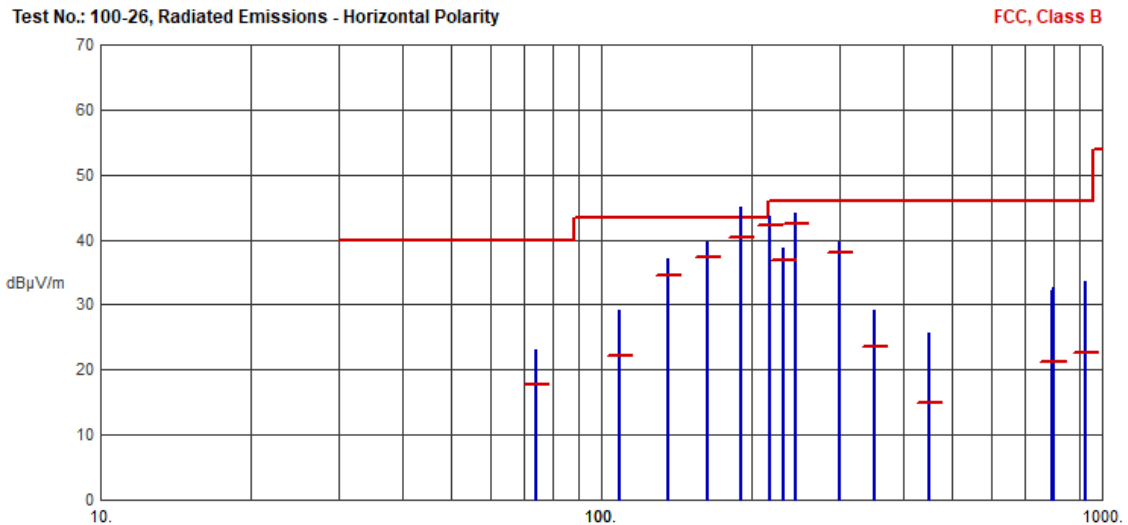


7. Measurement Data (continued)

7.3. Spurious Radiated Emissions, 9 kHz to 1 GHz (15.225, § (d), 15.209) (cont'd)

7.3.3. Spurious Radiated Emissions, 30 MHz to 1 GHz Test Results

7.3.3.1 Horizontal Polarity



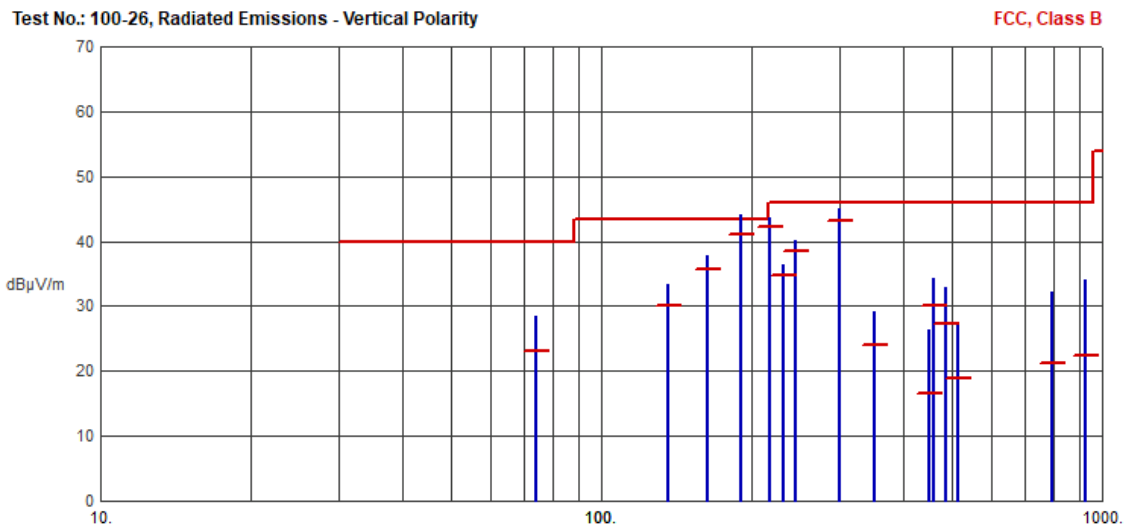
Frequency (MHz)	Pk Amp (dBµV/m)	QP Amp (dBµV/m)	QP Limit (dBµV/m)	Margin (dB)	Ant Ht (cm)	Table (Deg)	Comments
74.2700	23.10	17.77	40.00	-22.23	100	0	
108.4700	29.10	22.28	43.50	-21.22	297	250	
135.5900	37.08	34.49	43.50	-9.01	316	240	
162.7100	39.61	37.45	43.50	-6.05	174	88	
189.8300	45.07	40.42	43.50	-3.08	199	110	
216.9500	43.54	42.15	46.00	-3.85	100	104	
230.5100	38.63	36.95	46.00	-9.05	118	238	
244.0700	44.12	42.54	46.00	-3.46	100	114	
298.3100	39.65	38.07	46.00	-7.93	100	244	
350.0000	29.14	23.48	46.00	-22.52	100	240	
450.0200	25.61	14.92	46.00	-31.08	322	0	
792.0200	32.18	21.23	46.00	-24.77	100	8	
800.0000	32.74	21.32	46.00	-24.68	100	4	
923.9900	33.70	22.54	46.00	-23.46	100	0	

7. Measurement Data (continued)

7.3. Spurious Radiated Emissions, 9 kHz to 1 GHz (15.225, § (d), 15.209) (cont'd)

7.3.3. Spurious Radiated Emissions, 30 MHz to 1 GHz Test Results

7.3.3.2 Vertical Polarity



Frequency (MHz)	Pk Amp (dBμV/m)	QP Amp (dBμV/m)	QP Limit (dBμV/m)	Margin (dB)	Ant Ht (cm)	Table (Deg)	Comments
74.2700	28.57	22.99	40.00	-17.01	127	224	
135.5900	33.29	30.14	43.50	-13.36	315	18	
162.7100	37.82	35.60	43.50	-7.90	100	348	
189.8300	44.12	40.96	43.50	-2.54	100	350	
216.9500	43.67	42.27	46.00	-3.73	100	4	
230.5100	36.38	34.69	46.00	-11.31	100	8	
244.0700	40.02	38.50	46.00	-7.50	100	4	
298.3100	44.98	43.18	46.00	-2.82	100	350	
350.0000	29.21	24.12	46.00	-21.88	100	358	
449.9900	26.41	16.68	46.00	-29.32	100	174	
461.0300	34.35	30.06	46.00	-15.94	100	190	
488.1500	32.91	27.41	46.00	-18.59	100	274	
515.2767	27.11	18.95	46.00	-27.05	100	264	200Hz RBW
791.9900	32.29	21.32	46.00	-24.68	100	4	
924.0200	34.06	22.51	46.00	-23.49	100	0	

7. Measurement Data (continued)

7.4. Frequency Stability (FCC Part 15.225 (e))

Requirement: The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

Test Notes: The size of the host device that houses the device under test exceeds the volume of the site environmental chamber. In order to test the RFID transmitter and antenna assembly, it was necessary to remove the assembly from the host device and test it in the environmental chamber. In order to do this, a custom cable capable of carrying all power and signal lines to the DUT was constructed. By doing so, the DUT was subjected to the required temperature variations while maintaining operational communications with the host device.

Result: Compliant - The unit under test complies with the requirements detailed in FCC Part 15.225 (e).

7.4.1. Temperature and Voltage Variation

Temp °C	Supply Voltage	Meas Freq.	Limit			Offset	Result
		(MHz)	F _{MIN} (MHz)	F _{MAX} (MHz)	%	(%)	
Ambient	9 VDC	13.55988	N/A			N/A	
-20		13.559880	13.558524	13.561236	± 0.01	0.00000000	Compliant
-10		13.559910	13.558524	13.561236	± 0.01	0.00022124	Compliant
0		13.559910	13.558524	13.561236	± 0.01	0.00022124	Compliant
+10		13.559910	13.558524	13.561236	± 0.01	0.00022124	Compliant
+20		13.559880	13.558524	13.561236	± 0.01	0.00000000	Compliant
+30		13.559850	13.558524	13.561236	± 0.01	0.00022124	Compliant
+40		13.559850	13.558524	13.561236	± 0.01	0.00022124	Compliant
+50		13.559820	13.558524	13.561236	± 0.01	0.00044248	Compliant

7. Measurement Data (continued)

7.5. Occupied Bandwidth (Section 15.215 (c) and ANSI C63.10, Section 6.9)

Requirement: Intentional radiators operating under the alternative provisions to the general emission limits, as contained in Sections 15.217 through 15.255 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission is contained within the frequency band designated in the rule. The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW

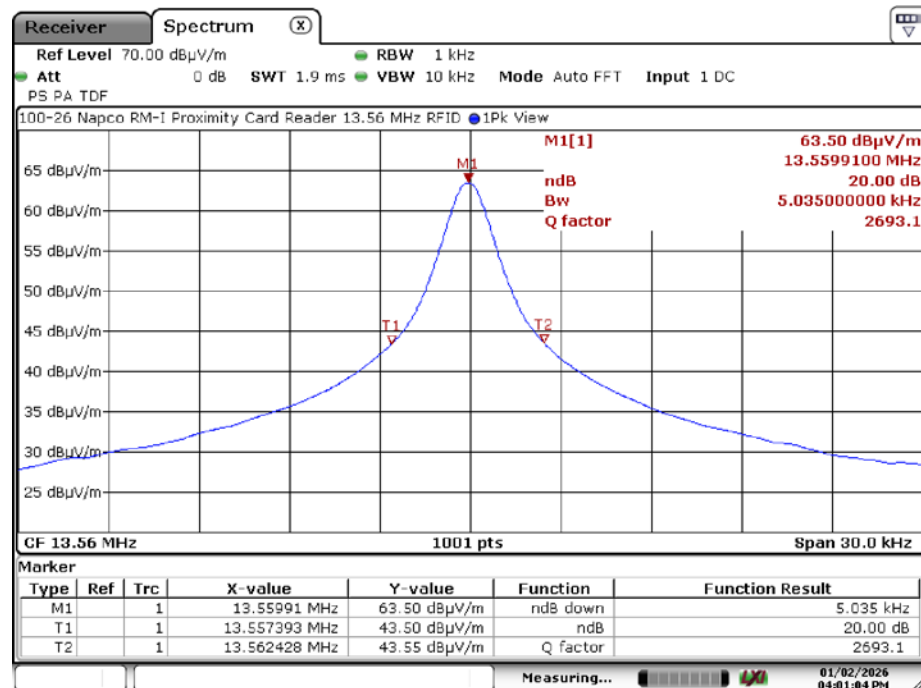
Frequency Band: $F_{MIN} = 13.110 \text{ MHz}$

$F_{MAX} = 14.010 \text{ MHz}$

Result: Compliant.

-20 dB Frequency Measured		Lower & Upper Band Edge		Result
(F _{LO} & F _{HI})		(F _{MIN} & F _{Max})		
MHz		MHz		
F _{LO}	13.557393	F _{MIN}	13.11	Compliant (F _{LO} > F _{MIN})
F _{HI}	13.562428	F _{MAX}	14.01	Compliant (F _{HI} < F _{Max})

7.5.1. Plot of 20 dB Bandwidth vs. Frequency Band



Date: 2.JAN.2026 16:01:04

7. Measurement Data (continued)

7.6. Power Line Conducted Emissions (FCC Part 15.207)

Requirement: For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal.

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-Peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5.0	56	46
5.0 to 30.0	60	50

* Decreases with the logarithm of the frequency.

Procedure: Test measurements were made in accordance with ANSI C63.10-2020, Section 6.2: Standard test method for ac powerline conducted emissions from unlicensed wireless devices.

Results: The device under test meets the FCC Part 15.207 conducted emissions requirements.

Notes: The EUT was tested via the NA-1 panel.

Sample Calculation: Final Result (dB μ V) = Measurement Value (dB μ V) + LISN Insertion Loss (dB) + Cable Loss (dB).

Note: All correction factors are loaded into the measurement instrument prior to testing to determine the final result.

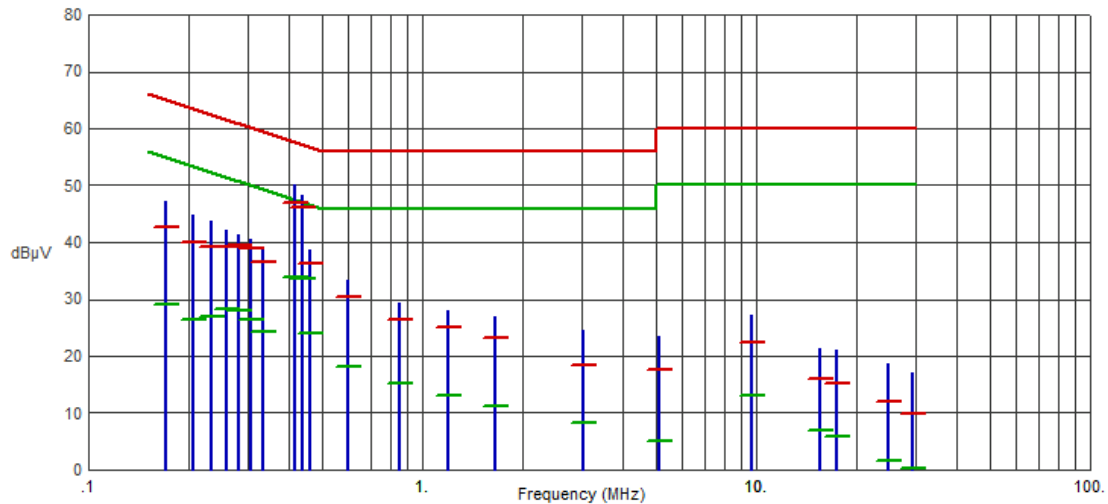
7. Conducted Emissions Test Results

7.6. Power Line Conducted Emissions (15.207)

7.6.1. 120 Volts, 60 Hz Phase

Test No.: 100-26, 120 Volts, 60 Hz Phase

FCC, Class B



Frequency (MHz)	Pk Amp (dBμV)	QP Amp (dBμV)	QP Limit (dBμV)	QP Margin (dB)	Avg Amp (dBμV)	Avg Limit (dBμV)	Avg Margin (dB)	Comments
.1703	47.20	42.54	64.95	-22.41	29.12	54.95	-25.83	
.2063	44.76	39.97	63.35	-23.38	26.30	53.35	-27.05	
.2333	43.86	39.14	62.33	-23.19	26.97	52.33	-25.36	
.2580	42.00	39.32	61.50	-22.18	28.23	51.50	-23.27	
.2828	41.43	39.56	60.73	-21.17	28.09	50.73	-22.64	
.3075	40.64	38.87	60.04	-21.17	26.34	50.04	-23.70	
.3345	38.92	36.62	59.34	-22.72	24.19	49.34	-25.15	
.4155	50.19	46.90	57.54	-10.64	33.82	47.54	-13.72	
.4358	48.29	46.25	57.14	-10.89	33.56	47.14	-13.58	
.4628	38.58	36.27	56.64	-20.37	23.93	46.64	-22.71	
.5978	33.35	30.44	56.00	-25.56	18.24	46.00	-27.76	
.8565	29.21	26.39	56.00	-29.61	15.13	46.00	-30.87	
1.1918	28.09	25.01	56.00	-30.99	13.18	46.00	-32.82	
1.6485	26.91	23.17	56.00	-32.83	11.16	46.00	-34.84	
3.0480	24.52	18.39	56.00	-37.61	8.26	46.00	-37.74	
5.1135	23.50	17.60	60.00	-42.40	4.99	50.00	-45.01	
9.7373	27.11	22.30	60.00	-37.70	12.97	50.00	-37.03	
15.4905	21.45	15.96	60.00	-44.04	6.95	50.00	-43.05	
17.3468	21.14	15.07	60.00	-44.93	5.93	50.00	-44.07	
24.9720	18.72	12.05	60.00	-47.95	1.68	50.00	-48.32	
29.3235	17.18	9.78	60.00	-50.22	0.20	50.00	-49.80	

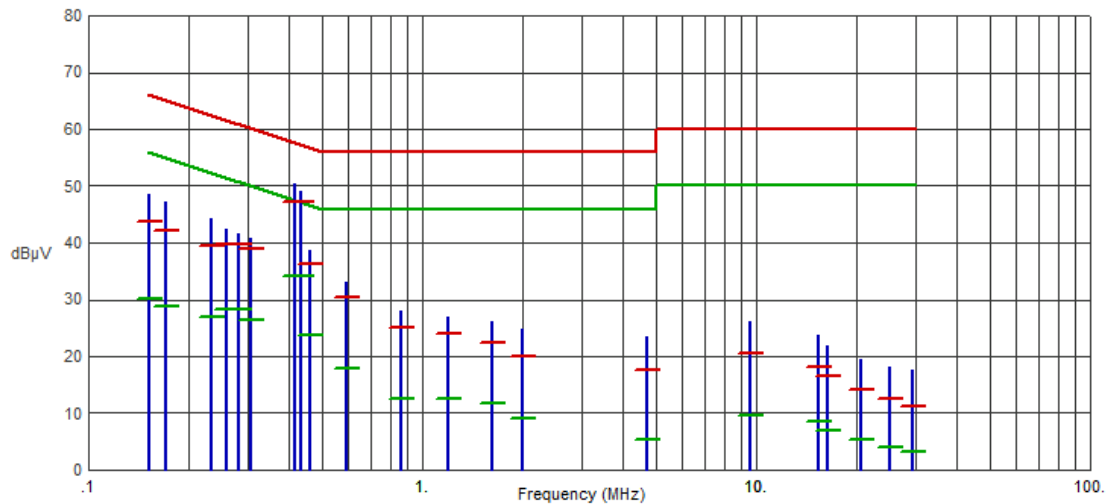
7. Conducted Emissions Test Results

7.6. Power Line Conducted Emissions (15.207)

7.6.2. 120 Volts, 60 Hz Neutral

Test No.: 100-26, 120 Volts, 60 Hz Neutral

FCC, Class B



Frequency (MHz)	Pk Amp (dBμV)	QP Amp (dBμV)	QP Limit (dBμV)	QP Margin (dB)	Avg Amp (dBμV)	Avg Limit (dBμV)	Avg Margin (dB)	Comments
.1523	48.51	43.81	65.87	-22.06	30.09	55.87	-25.78	
.1703	47.07	42.14	64.95	-22.81	28.86	54.95	-26.09	
.2333	44.22	39.39	62.33	-22.94	26.93	52.33	-25.40	
.2580	42.44	39.61	61.50	-21.89	28.29	51.50	-23.21	
.2828	41.63	39.81	60.73	-20.92	28.23	50.73	-22.50	
.3075	40.92	39.06	60.04	-20.98	26.44	50.04	-23.60	
.4155	50.30	47.08	57.54	-10.46	34.23	47.54	-13.31	
.4335	48.97	47.16	57.19	-10.03	34.26	47.19	-12.93	
.4628	38.73	36.28	56.64	-20.36	23.75	46.64	-22.89	
.5955	33.07	30.52	56.00	-25.48	17.85	46.00	-28.15	
.8678	28.00	25.16	56.00	-30.84	12.62	46.00	-33.38	
1.1918	27.02	24.12	56.00	-31.88	12.46	46.00	-33.54	
1.6193	26.05	22.44	56.00	-33.56	11.74	46.00	-34.26	
1.9883	24.80	19.92	56.00	-36.08	8.94	46.00	-37.06	
4.7198	23.45	17.51	56.00	-38.49	5.33	46.00	-40.67	
9.6180	26.17	20.66	60.00	-39.34	9.55	50.00	-40.45	
15.3263	23.68	18.25	60.00	-41.75	8.46	50.00	-41.54	
16.4310	21.94	16.42	60.00	-43.58	6.80	50.00	-43.20	
20.5035	19.55	14.09	60.00	-45.91	5.42	50.00	-44.58	
25.2353	18.04	12.52	60.00	-47.48	4.12	50.00	-45.88	
29.4135	17.55	11.19	60.00	-48.81	3.20	50.00	-46.80	

8. Test Site Description

Compliance Worldwide is located at 357 Main Street in Sandown, New Hampshire. The test sites at Compliance Worldwide are used for conducted and radiated emissions testing in accordance with the Federal Communications Commission (FCC) and Industry Canada standards. Through our American Association for Laboratory Accreditation (A2LA) ISO Guide 17025 Accreditation our test sites are designated with the FCC (designation number **US1091**) and Industry Canada (file number **IC 3023A-1**).

Compliance Worldwide is also designated as a Phase 1 CAB under APEC-MRA (US0132) for Australia/New Zealand AS/NZS CISPR 11, AS/NZS CISPR 14-1, AS/NZS CISPR 15, AS/NZS CISPR 32, Chinese-Taipei (Taiwan) BSMI CNS 15936 and Korea (RRA) KS C 9811, KS C 9814-1, KS C 9815, KS C 9832, KS C 9610-6-3 & KS C 9610-6-4.

The radiated emissions test site is a 3- and 10-meter enclosed open area test site (OATS). Personnel, support equipment and test equipment are located in the basement beneath the OATS ground plane.

The conducted emissions site is part of a 16' x 20' x 12' ferrite tile chamber and uses one of the walls for the vertical ground plane. A second conducted emissions site is also located in the basement of the OATS site with a 2.3 x 2.5-meter ground plane and a 2.4 x 2.4-meter vertical wall.

The radiated emissions test site for measurements above 1GHz is a 3 Meter open area test site (OATS) with a 3.6 by 3.6-meter anechoic absorber floor patch to achieve a quasi-free space measurement environment per ANSI C63.4/C63.10 and CISPR 16-1-4 standards.

The sites are designed to test products or systems 1.5 meters W x 1.5 meters L x 2.0 meters H, floor standing or tabletop.

9. Test Setup Photographs

9.1. Radiated Emissions Front View Below 30 MHz



9. Test Setup Photographs

9.2. Radiated Emissions Rear View – Fundamental & Spurious Emissions < 30 MHz



9. Test Setup Photographs

9.3. Radiated Emissions Front View Emissions 30 MHz to 1 GHz



9. Test Setup Photographs

9.4. Radiated Emissions Rear View Emissions 30 MHz to 1 GHz



9. Test Setup Photographs

9.5. Power Line Conducted Emissions - Front



9. Test Setup Photographs

9.7. Temperature Stability Setup



9. Test Setup Photographs

9.8. Temperature Stability EUT

