

TEST REPORT

Report Number: 104274811MPK-006

Project Number: G104274811

May 18, 2020

Testing performed on the

CONEKT® Reader

Model Number: CSR-6.4

FCC ID: T8I-CONEKT2

IC: 6504A-CONEKT2

to

FCC Part 15 Subpart C (15.225)

Industry Canada RSS-210 Issue 10

FCC Part 15, Subpart B

Industry Canada ICES-003

For

Farpointe Data, Inc.

Test Performed by:

Intertek

1365 Adams Court

Menlo Park, CA 94025 USA

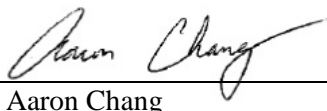
Test Authorized by:

Farpointe Data, Inc.

2195 Zanker Road

San Jose, CA 95131 USA

Prepared by:


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Date: May 18, 2020

Reviewed by:


Krishna Vemuri

Date: May 18, 2020

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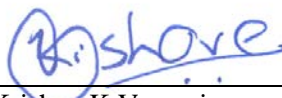
Report No. 104274811MPK-006

Equipment Under Test:	CONEKT® Readers
Model Number:	CSR-6.4
Serial Number:	SN1
Applicant:	Farpointe Data, Inc.
Contact:	Kirk Bierach
Address:	2195 Zanker Road San Jose, CA 95131
Country	USA
Email	Kirkbierach@farpointedata.com
Applicable Regulation:	FCC Part 15 Subpart C (15.225) Industry Canada RSS-210 Issue 10 FCC Part 15, Subpart B Industry Canada ICES-003 Issue 6
Test Site Location:	ITS – Site 1 1365 Adams Drive Menlo Park, CA 94025
Date of Test:	March 15 – May 6, 2020

We attest to the accuracy of this report:



Aaron Chang
Project Engineer



Krishna K Vemuri
EMC Manager

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1.0 Summary of Tests

TEST	REFERENCE FCC 15.225	REFERENCE RSS-210	RESULTS
Field Strength of Fundamental	15.225(a)	B.6	Complies
Radiated Emissions Outside the band	15.225(b), 15.225(c), 15.225(d), 15.209	B.6	Complies
Frequency Tolerance of the Carrier	15.225(e)	B.6	Complies
Line Conducted Emissions	15.207	RSS-GEN	Complies
Occupied Bandwidth	15.215	RSS-GEN	Complies
Antenna requirement	15.203	RSS-GEN	Complies ¹

¹ The EUT utilizes an internal Antenna.

2.0 General Description

2.1 Product Description

Farpointe Data, Inc. supplied the following description of the EUT:

CONEKT® MOBILE-READY CONTACTLESS SMARTCARD READER AND KEYPAD

Overview of the EUT

Applicant name & address	Farpointe Data, Inc. 2195 Zanker Road San Jose, CA 95131 USA
Contact info / Email	Kirk Bierach / Kirkbierach@farpointedata.com
Model	CSR-6.4
FCC Identifier	T8I-CONEKT2
IC Identifier	6504A-CONEKT2
Operating Frequency	13.56 MHz
Number of Channels	1
Type of Modulation	ASK Modulation
Antenna Type	Internal Antenna

EUT receive date: March 15, 2020

EUT receive condition: The EUT was received in good condition with no apparent damage. As declared by the Applicant it is identical to the production units.

Test start date: March 15, 2020

Test completion date: May 6, 2020

2.2 Related Submittal(s) Grants

None

2.3 Test Methodology

Both AC mains line-conducted and radiated emissions measurements were performed according to the procedures in ANSI C63.4: 2014. Radiated tests were performed at an antenna to EUT distance of 10 meters, unless stated otherwise in this test report. All other measurements were made in accordance with the procedures in part 2 of CFR 47 7, ANSI C63.10: 2013, ANSI C63.4-2014 & RSS-GEN Issue 5.

2.4 Test Facility

The radiated emission test site and conducted measurement facility used to collect the data is 10m semi-anechoic chamber located in Menlo Park, California. This test facility and site measurement data have been fully placed on file with the FCC and Industry Canada (Site # 2042L-1).

2.5 Measurement Uncertainty

Compliance with the limits was based on the results of the measurements and doesn't take into account the measurement uncertainty.

Estimated Measurement Uncertainty

Measurement	Expanded Uncertainty (k=2)		
	0.15 MHz – 1 GHz	1 GHz – 2.5 GHz	> 2.5 GHz
RF Power and Power Density – antenna conducted	-	0.7 dB	-
Unwanted emissions - antenna conducted	1.1 dB	1.3 dB	1.9 dB
Bandwidth – antenna conducted	-	30 Hz	-

Measurement	Expanded Uncertainty (k=2)		
	0.15 MHz – 30MHz	30 MHz – 1 GHz	1 GHz – 18 GHz
Radiated emissions	-	4.7	5.1 dB
AC mains conducted emissions	2.1 dB	-	-

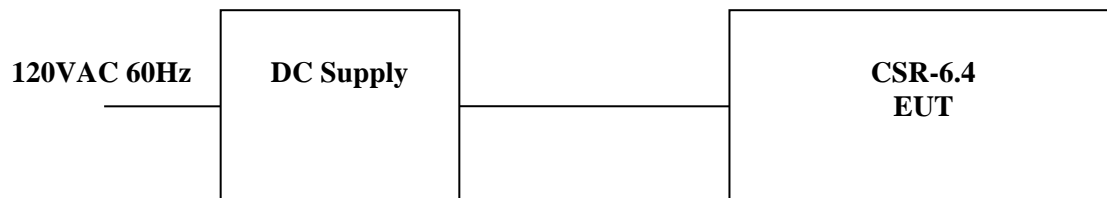
3.0 System Test Configuration

3.1 EUT Photo



3.2 Block Diagram of Test Setup

The diagram shown below details the interconnection of the EUT and support equipment. For specific layout, refer to the test configuration photograph in the relevant section of this report.



S = Shielded	F = With Ferrite
U = Unshielded	m = Length in Meters

3.3 Justification

For radiated emission measurements the EUT is placed on a non-conductive table. The EUT was configured to continuously transmit.

3.4 Software Exercise Program

None

3.5 Mode of Operation during test

The CONEKT® Readers was set up to continuously transmitting at 13.56MHz.

3.6 Modifications required for Compliance

No modifications were made by the manufacturer to bring the EUT into compliance.

3.7 Additions, deviations and exclusions from standards

No additions, deviations or exclusion have been made from standard.

4.0 Measurement Results

4.1 Field Strength of Fundamental and Radiated Emissions Outside the band

4.1.1 Requirements

FCC Rules 15.225

- a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter (84 dBuV) 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 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 at 30 meters.
- d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

§15.209 Radiated emission limits; general requirements.

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

4.1.2 Procedure

Radiated Measurements Below 30 MHz

During the test the EUT is rotated and the measuring antenna angles are varied during the search for maximum signal level.

Radiated emissions are taken at ten meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance. Measurements for below 30 MHz were made at 10 meters. Data results below are corrected for distance back to 30 meters.

Radiated Measurements Above 30 MHz

During the test the EUT is rotated and the measuring antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters.

Radiated emissions are taken at ten meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance. Measurements for above 30 MHz were made at 10 meters.

Radiated emission measurements were performed from 9kHz to 1 GHz.
Analyzer resolution is:

200Hz or greater for 9kHz to 150kHz
9 kHz or greater for 150kHz to 30 MHz
120 kHz or greater for 30MHz to 1000 MHz
For those frequencies quasi-peak detector applies

Data includes of the worst-case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation is as follows:

$$FS = RA + AF + CF - AG - DCF$$

Where FS = Field Strength in dB (μ V/m)

RA = Receiver Amplitude (including preamplifier) in dB (μ V)

CF = Cable Attenuation Factor in dB

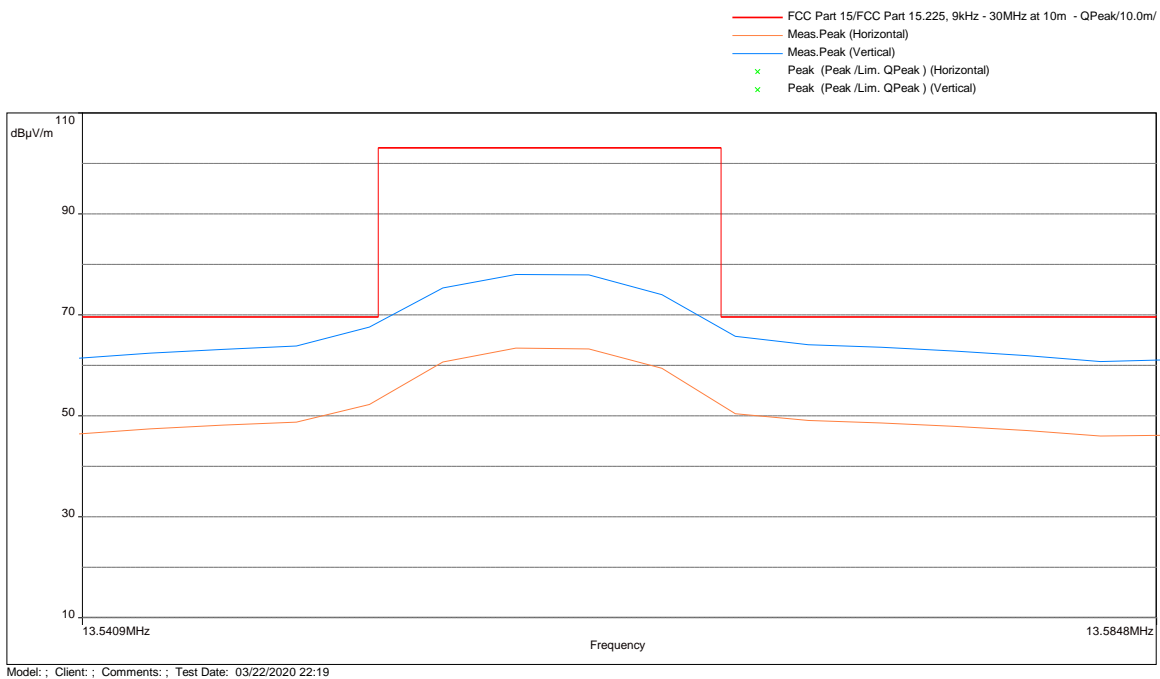
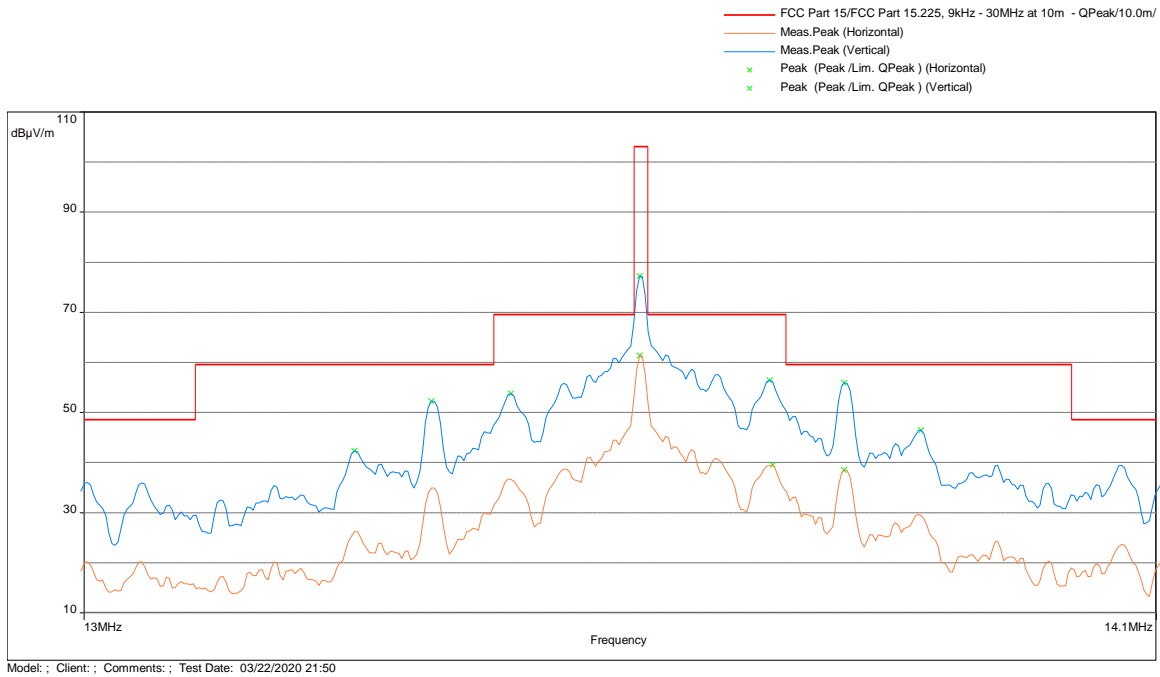
AF = Antenna Factor in dB (1/m)

AG = Amplifier Gain in dB

DCF = Distance Correction Factor

Note: FS was measured with loop antenna below 30MHz

4.1.3 Test Result 15.225 (a)(b)(c)



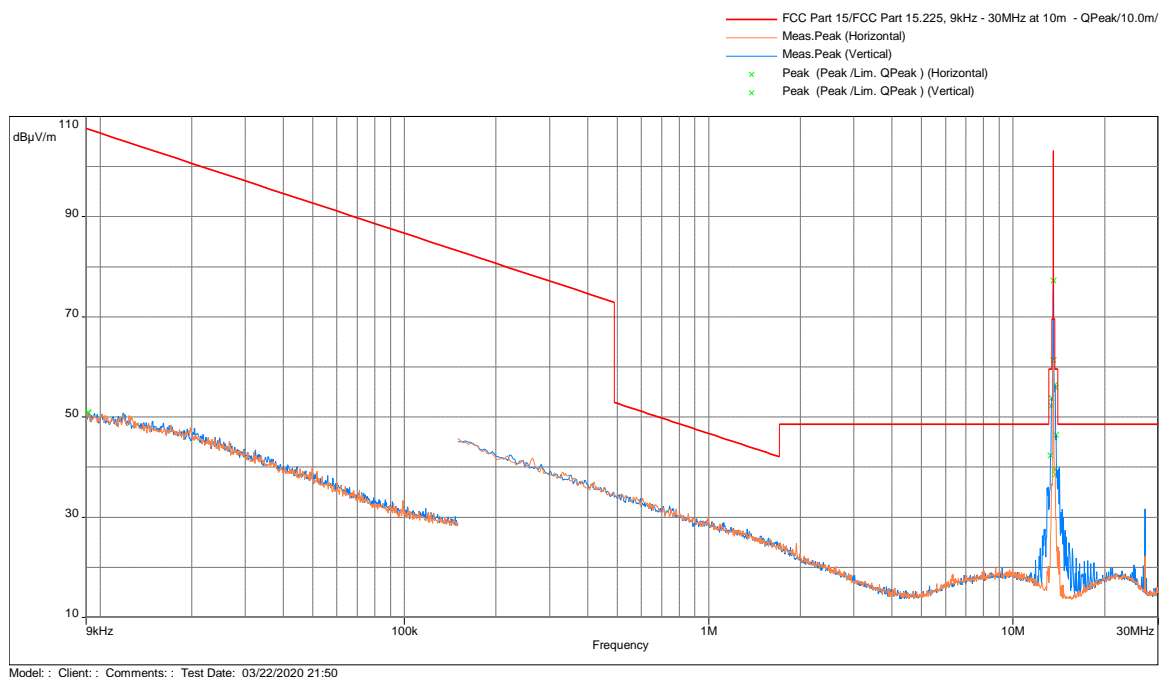
Frequency	Peak FS@10m	Limit@10m	Margin	Comment	Correction
(MHz)	dB(uV/m)	dB(uV/m)	dB		dB
13.56	77.27	103.1	-25.83	Perpendicular	3.43
13.56	61.4	103.1	-41.7	Parallel	3.43
13.553	68.80	70	-1.20	Perpendicular	3.43
13.567	67.00	70	-3.00	Perpendicular	3.43

Note: Correction = AF+CF-AG- distance correction factor

Distance correction factor= $40 \cdot \log_{10}(\text{limit distance}/\text{measured distance})$

4.1.4 Test Result 15.225 (d) and 15.209

Radiated Spurious Emissions from 9 kHz to 30MHz

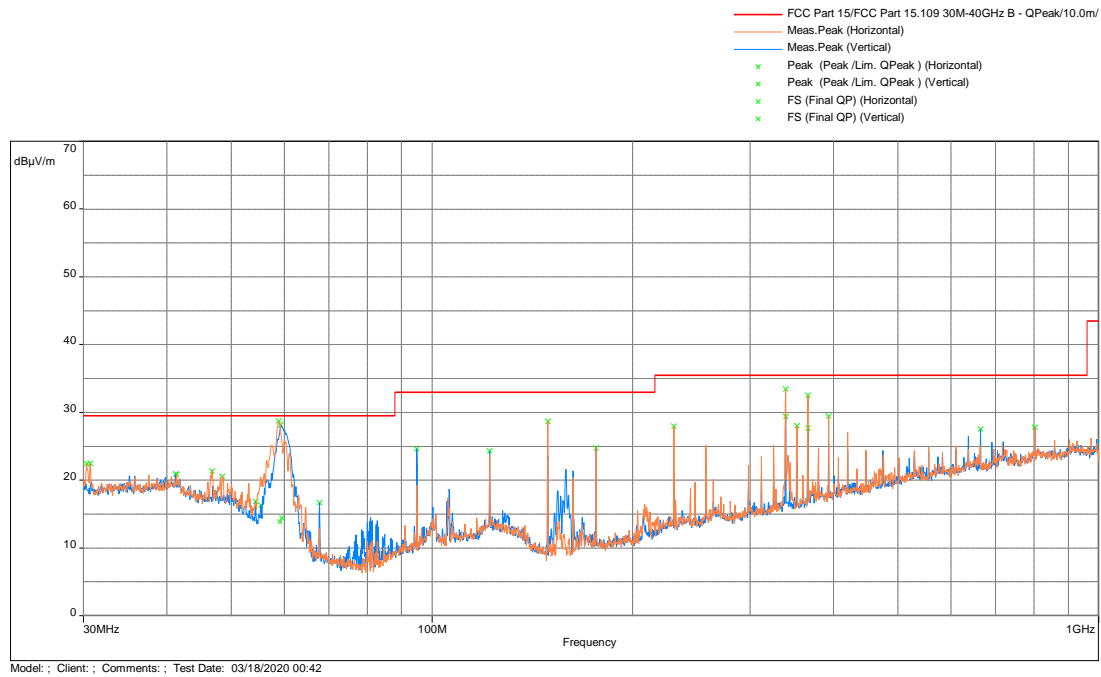


Frequency	Peak FS @10m	Limit@10m	Margin	Comment	Correction
(MHz)	dB(uV/m)	dB(uV/m)	dB		dB
27.122	33.33	48.6	-15.27	Perpendicular	3.55

Note: Correction = AF+CF-AG- distance correction factor

Distance correction factor=40*log₁₀(limit distance/measured distance)

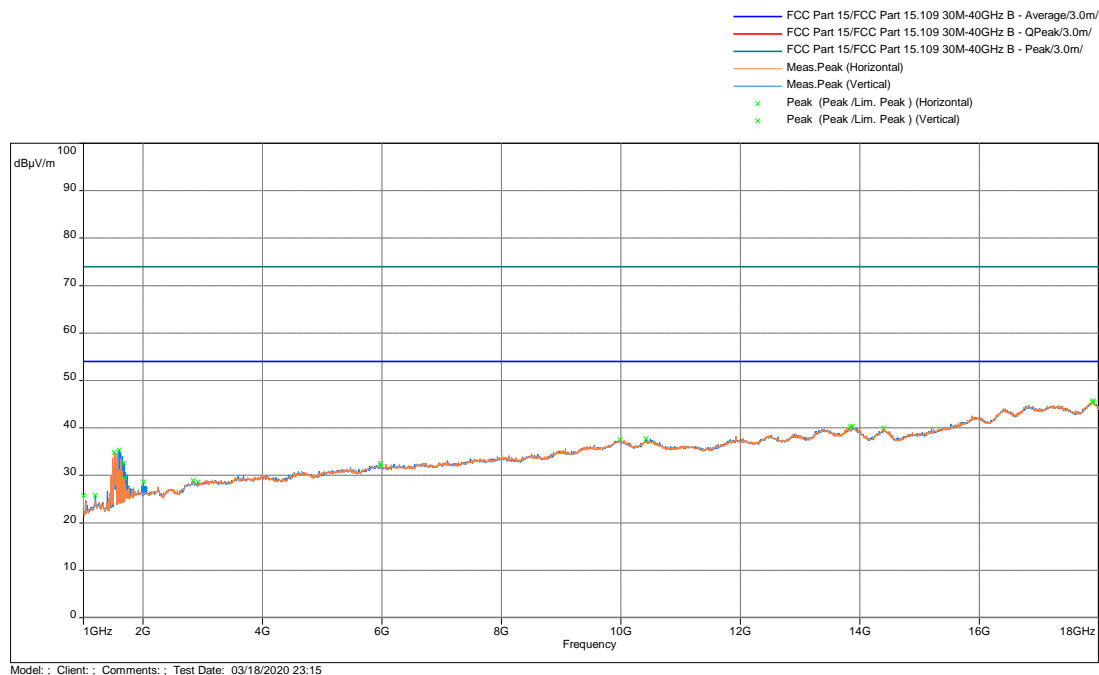
Radiated Spurious Emissions from 30 MHz to 1000 MHz



Freq (MHz)	FS@10m dB(uV/m)	Limit@10m dB(uV/m)	Margin (dB)	Azimuth (Deg)	Height (m)	Polarity	Correction (dB)
59.106	13.87	29.5	-15.63	1.32	143.25	Vertical	-14.95
59.527	14.46	29.5	-15.04	3.81	287.5	Horizontal	-15.07
149.148	28.68	33	-4.32	3.98	359.25	Horizontal	-16.04
339.010	33.47	35.5	-2.03	2.48	150.5	Horizontal	-8.55
366.105	32.49	35.5	-3.01	2.48	150.5	Horizontal	-7.84
393.233	29.45	35.5	-6.05	2.48	150.5	Horizontal	-7.32

Note: FS = RA + Correction
Correction = AF + CF – Preamp

FCC Part 15 Subpart B and ICES-003, Radiated Disturbance, 1 – 18 GHz, Peak vs Avg Limits



Result

Complies by 2.03 dB

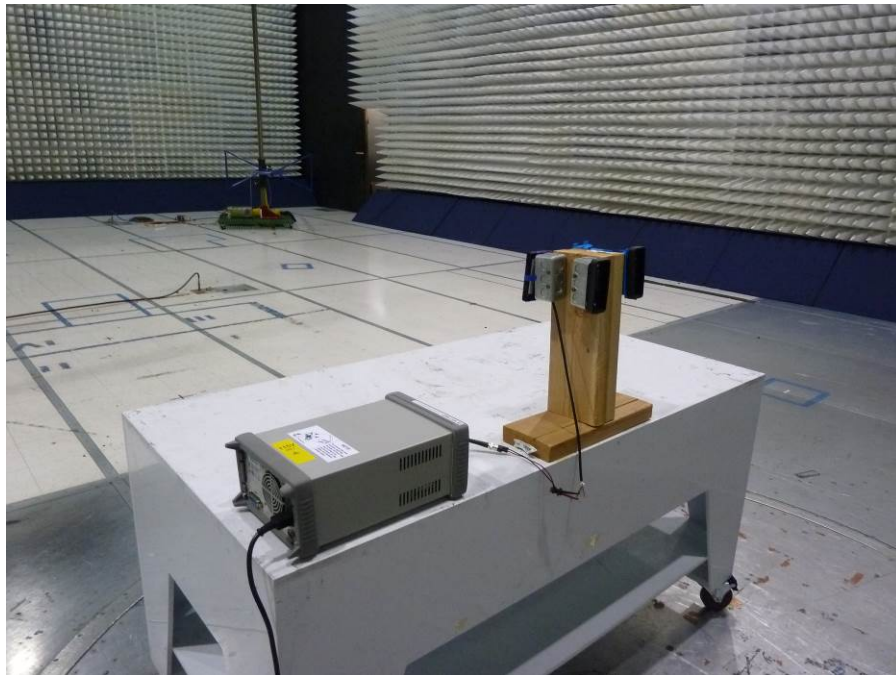
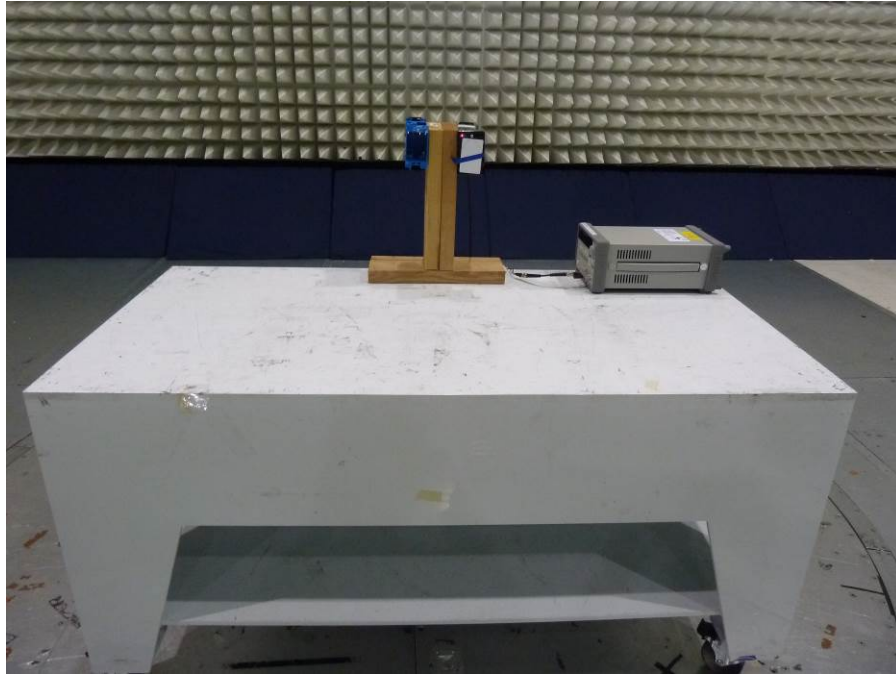
4.1.5 Test Configuration Photographs

The following photographs show the testing configurations used.

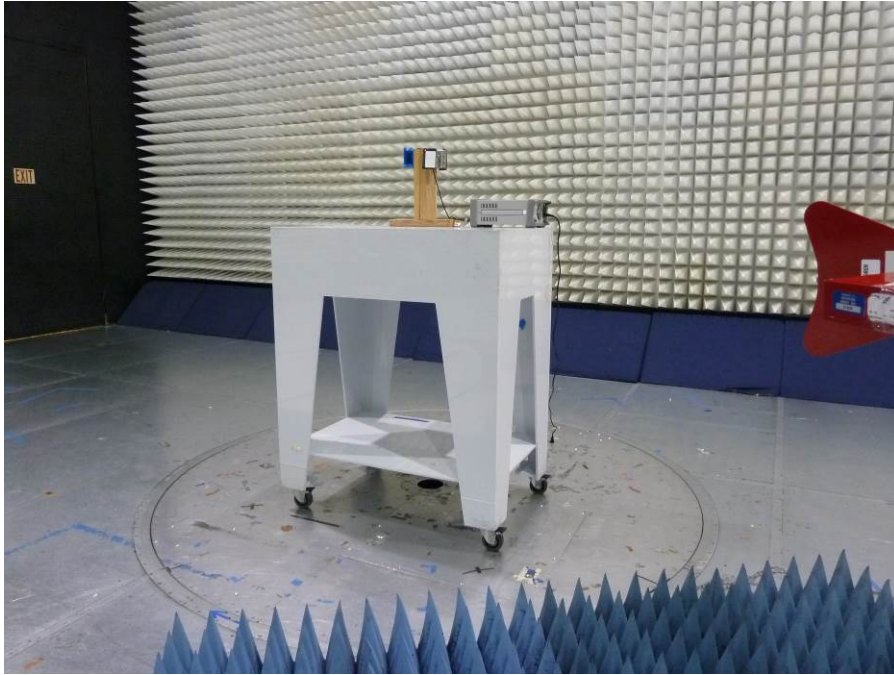


Electromagnetic Radiated Disturbance Setup Photograph

4.1.5 Test Configuration Photographs (Continued)



4.4.4 Test Configuration Photographs (Continued)



4.2 Frequency Tolerance

4.2.1 Requirement FCC 15.225 (e)

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.

4.2.2 Procedure

The EUT was placed in the temperature chamber. The frequency counter was connected to the transmitter output. For each temperature, the carrier frequency was recorded. In addition, the carrier frequency was recorded when the power was set to 13.8 V DC (115% of 12V DC) and to 10.2 V DC (85% of 12V DC).

4.2.3 Test Results 15.225 (e)

Nominal Frequency: 13560000 Hz

Voltage (DC)	Temperature (C)	Measured Frequency (Hz)	Deviation from Reference (Hz)	Deviation (%)
12	-20	13559456	495	0.00365
12	-10	13559692	259	0.00191
12	0	13559372	579	0.00427
12	10	13559731	220	0.001622
12	20	13559951	0	0
12	30	13559372	579	0.00427
12	40	13559728	223	0.001645
12	50	13559728	223	0.001645
10.2	85%	13559951	0	0
13.8	115%	13559951	0	0

4.3 Occupied Bandwidth FCC 15.215

4.3.1 Requirements

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage.

4.3.2 Procedure

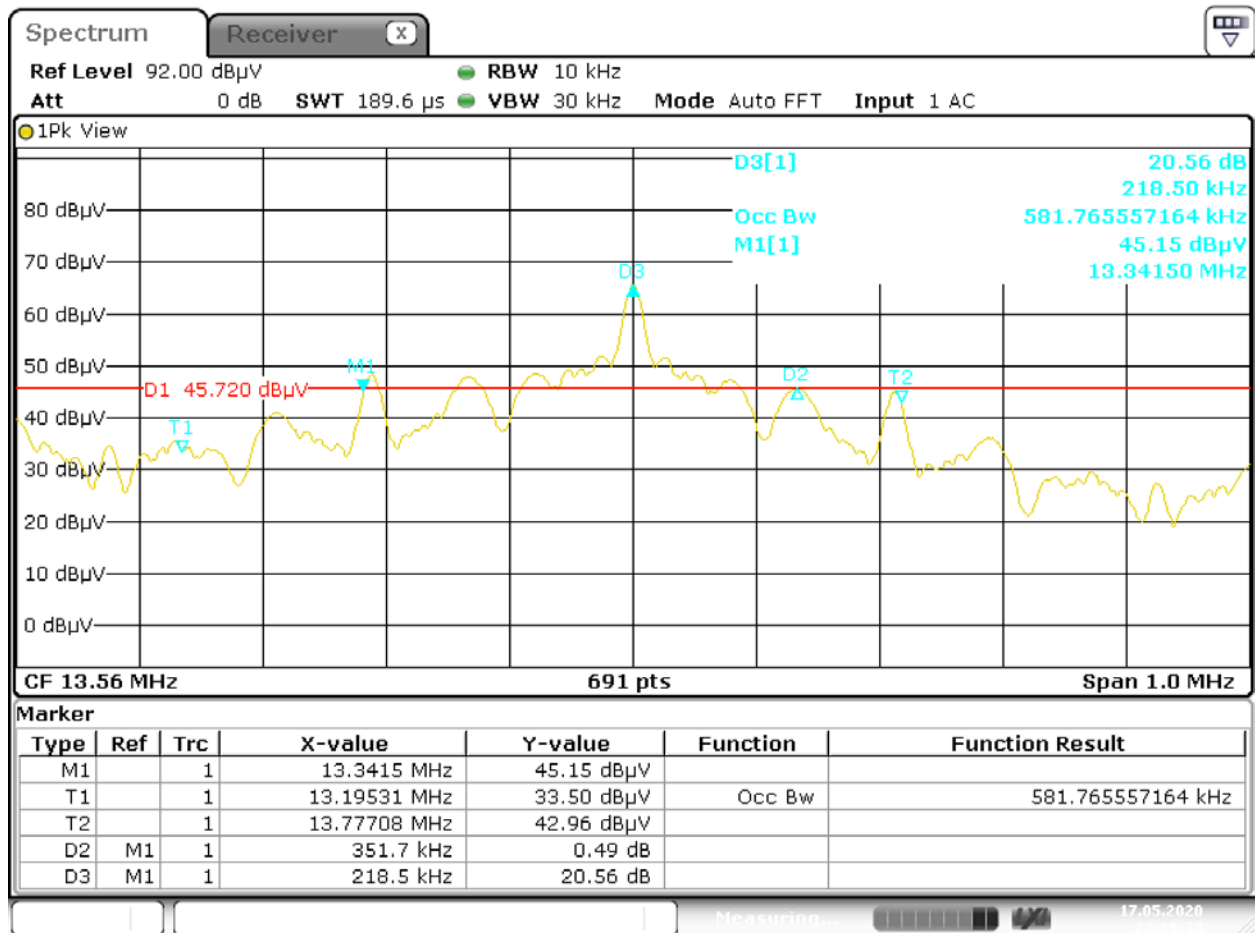
The EUT was setup to transmit in normal operating condition.

Measurements were made with the loop antenna in close proximity of the EUT. Following the procedures of ANSI 63.10: 2013, the 20dB bandwidth measurements were taken. The following plots show Occupied Bandwidth.

4.3.3 Test Results

Frequency (MHz)	-20 dB Channel Bandwidth (kHz)	99% Channel Bandwidth (kHz)
13.56	351.700	581.766

-20dB & 99% Channel Bandwidth Plot



Date: 17.MAY.2020 22:38:33

4.4 AC Line Conducted Emission FCC Rule 15.207, FCC 15.107

4.4.1 Requirement

Frequency Band MHz	Class B Limit dB(μ V)		Class A Limit dB(μ V)	
	Quasi-Peak	Average	Quasi-Peak	Average
0.15-0.50	66 to 56 *	56 to 46 *	79	66
0.50-5.00	56	46	73	60
5.00-30.00	60	50	73	60

Note: *Decreases linearly with the logarithm of the frequency. At the transition frequency the lower limit applies.

4.4.2 Procedure

Measurements are carried out using quasi-peak and average detector receivers in accordance with CISPR 16. An AMN is required to provide a defined impedance at high frequencies across the power feed at the point of measurement of terminal voltage and also to provide isolation of the circuit under test from the ambient noise on the power lines. An AMN as defined in CISPR 16 shall be used.

The EUT is located so that the distance between the boundary of the EUT and the closest surface of the AMN is 0.8m.

Where a flexible mains cord is provided by the manufacturer, this shall be 1m long or if in excess of 1m, the excess cable is folded back and forth as far as possible so as to form a bundle not exceeding 0.4m in length.

The EUT is arranged and connected with cables terminated in accordance with the product specification.

Conducted disturbance is measured between the phase lead and the reference ground, and between the neutral lead and the reference ground. Both measured values are reported.

The EUT, where intended for tabletop use, is placed on a table whose top is 0.8m above the ground plane. A vertical, metal reference plane is placed 0.4m from the EUT. The vertical metal reference-plane is at least 2m by 2m. The EUT shall be kept at least 0.8m from any other metal surface or other ground plane not being part of the EUT. The table is constructed of non-conductive materials. Its dimensions are 1m by 1.5m, but may be extended for larger EUT.

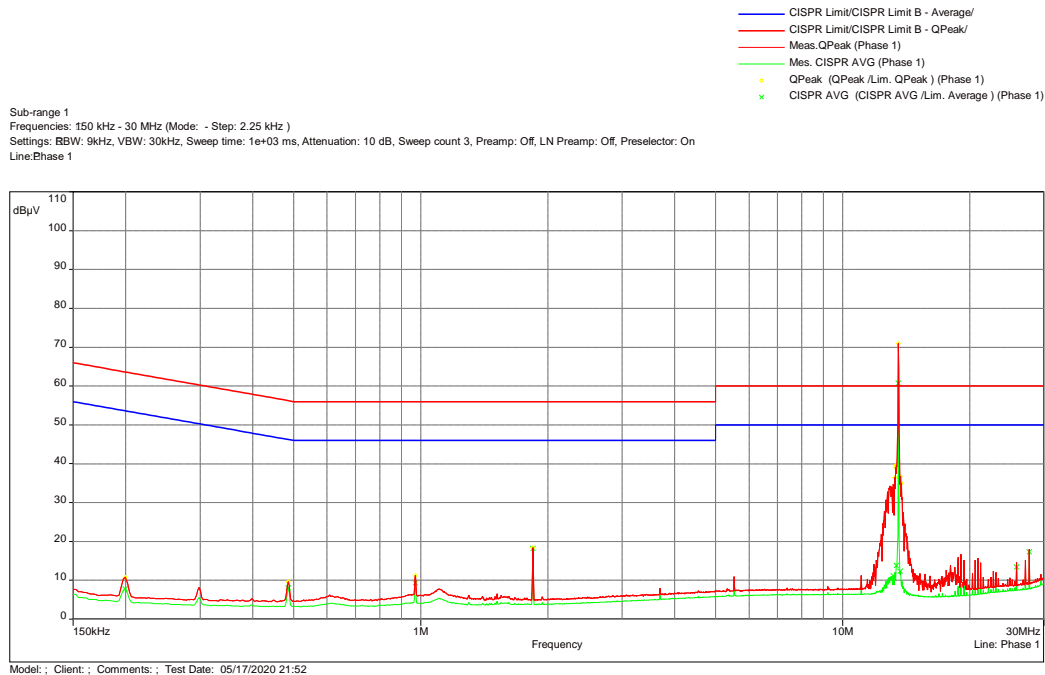
Floor standing EUT are placed on a horizontal metal ground plane and isolated from the ground plane by resting on an insulating material. The metal ground plane extends at least 0.5m beyond the boundaries of the EUT and has minimum dimensions of 2m by 2m.

EUT was placed in transmission mode then tested for conducted emissions per 15.207 to ensure the device complies with 15.207. After, the EUT RF was powered off and was measured to show compliance with the 15.107 limits.

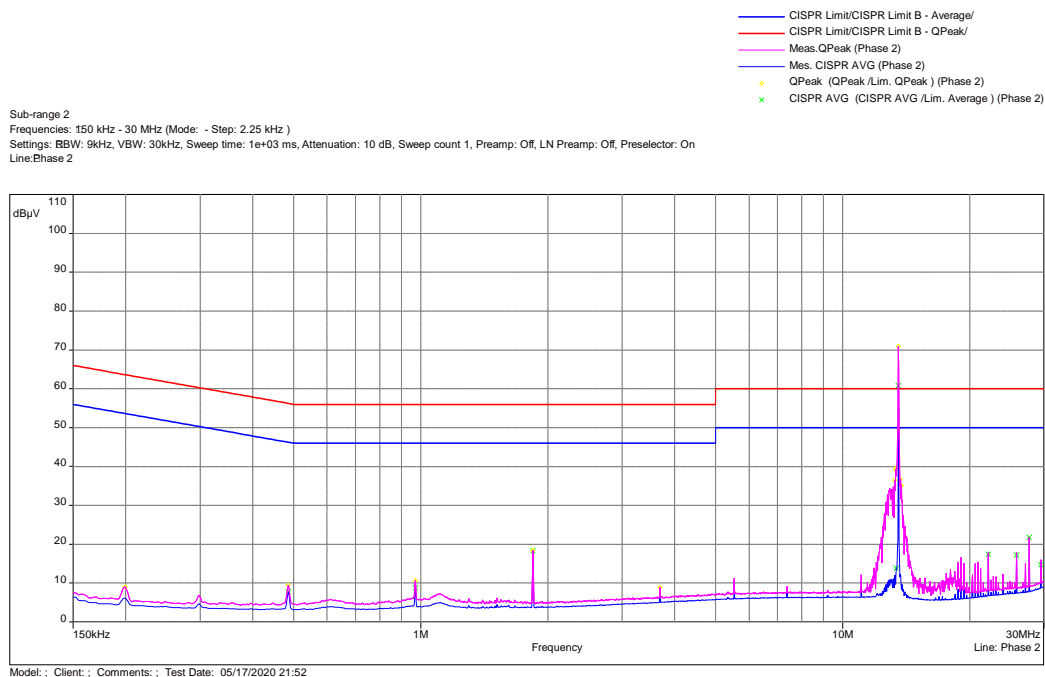
4.4.3 Test Result

15.207, 120VAC 60Hz with BLE Transmitter On
Tested with RFID Antenna

AC Line Conducted Emission, 120VAC 60Hz Phase 1

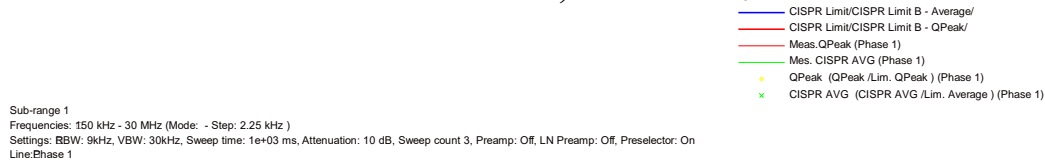


AC Line Conducted Emission, 120VAC 60Hz Phase 2

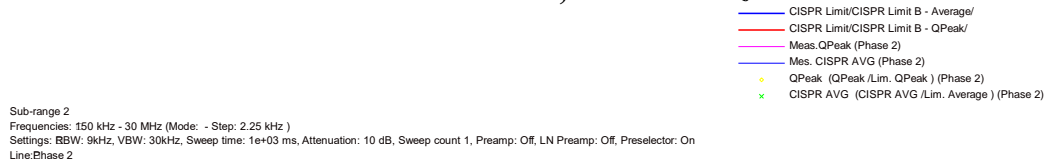


15.207, 120VAC 60Hz with BLE Transmitter On
Tested with RFID Antenna removed and terminated

AC Line Conducted Emission, 120VAC 60Hz Phase 1



AC Line Conducted Emission, 120VAC 60Hz Phase 2

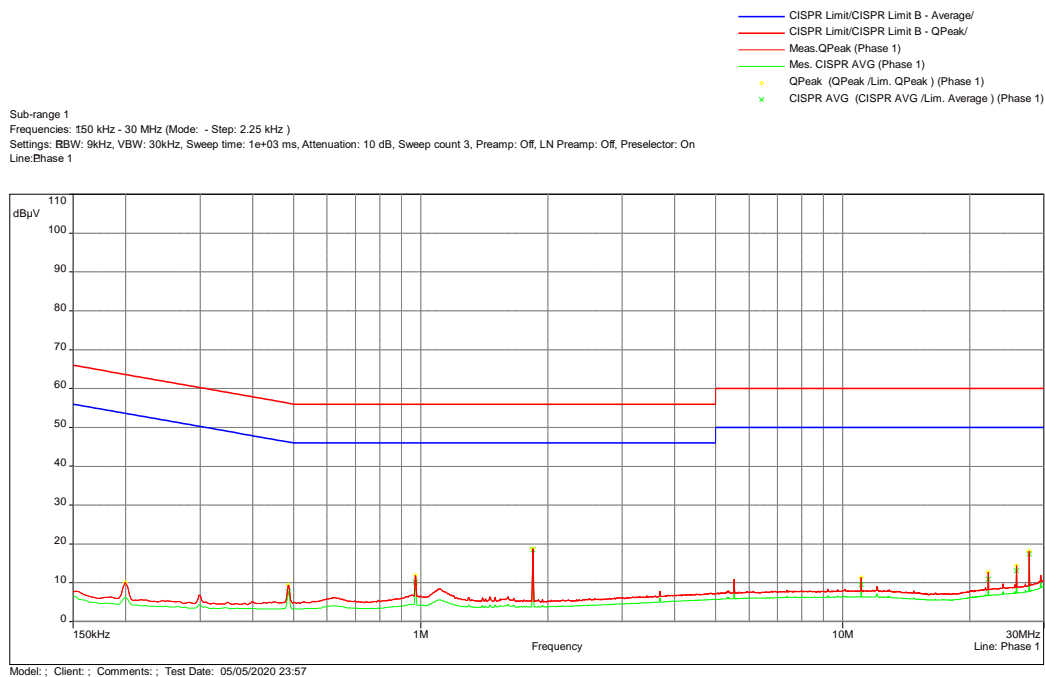


4.4.3 Test Result (Continued)

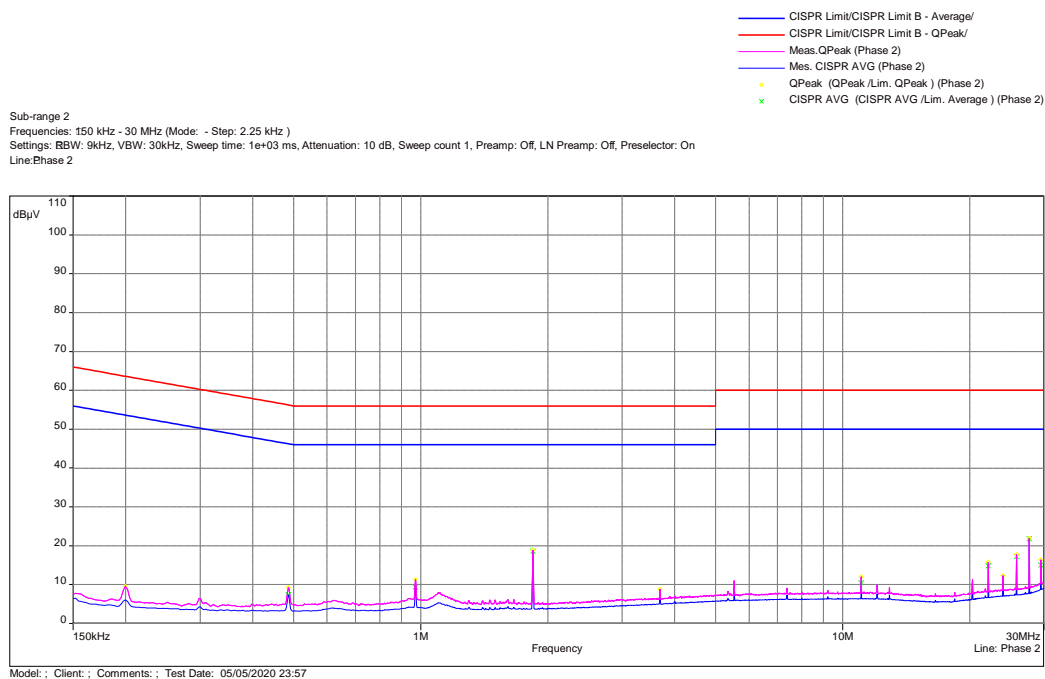
Frequency (MHz)	CISPR AVG (dBμV)	QPeak (dBμV)	Lim. Average (dBμV)	Lim. QPeak (dBμV)	CISPR AVG-Lim (dB)	QPeak-Lim (dB)	Comment	Correction (dB)
0.200	8.22	11.79	53.63	63.63	-45.41	-51.84	Phase 1	10.16
0.485	7.78	9.52	46.25	56.25	-38.47	-46.73	Phase 1	10.12
0.971	10.44	12.24	46	56	-35.56	-43.76	Phase 1	10.14
1.844	18.46	18.72	46	56	-27.54	-37.28	Phase 1	10.19
20.616	13.57	25.77	50	60	-36.43	-34.23	Phase 1	10.87
20.922	14.49	27.13	50	60	-35.51	-32.87	Phase 1	10.89
21.230	13.98	26.15	50	60	-36.02	-33.85	Phase 1	10.89
22.769	12.31	23.16	50	60	-37.69	-36.84	Phase 1	10.94
0.485	7.59	9.31	46.25	56.25	-38.66	-46.94	Phase 2	10.12
0.971	9.24	11.15	46	56	-36.76	-44.85	Phase 2	10.14
1.844	18.54	18.74	46	56	-27.46	-37.26	Phase 2	10.19
20.922	14.41	27	50	60	-35.59	-33	Phase 2	10.89
21.230	13.84	25.92	50	60	-36.16	-34.08	Phase 2	10.89
27.670	21.78	21.97	50	60	-28.22	-38.03	Phase 2	11.07

15.107, 120VAC 60Hz with BLE and RFID Transmitter Off

Phase 1



Phase 2

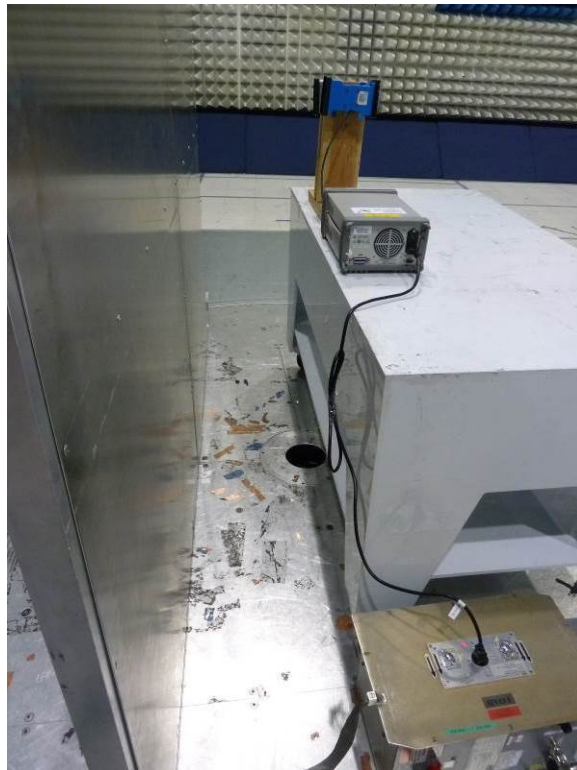
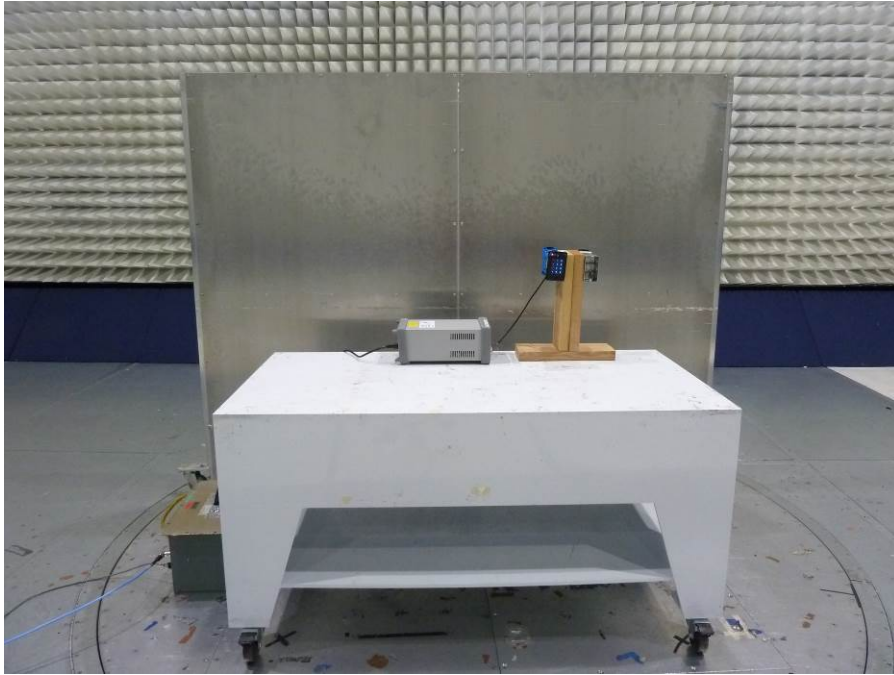


4.7.3 Test Result (Continued)

Frequency (MHz)	CISPR AVG (dBμV)	QPeak (dBμV)	Lim. Average (dBμV)	Lim. QPeak (dBμV)	CISPR AVG-Lim (dB)	QPeak-Lim (dB)	Comment	Correction (dB)
0.485	7.35	9.25	46.25	56.25	-38.9	-47	Phase 2	10.12
0.485	7.61	9.45	46.25	56.25	-38.63	-46.8	Phase 1	10.12
0.971	9.37	11.3	46	56	-36.63	-44.7	Phase 2	10.14
0.971	10.11	11.93	46	56	-35.89	-44.07	Phase 1	10.14
1.844	18.5	18.74	46	56	-27.5	-37.26	Phase 1	10.19
1.844	18.62	18.85	46	56	-27.38	-37.15	Phase 2	10.19
11.067	9.5	11.36	50	60	-40.5	-48.64	Phase 1	10.59
11.067	10.4	12.06	50	60	-39.6	-47.94	Phase 2	10.59
22.135	14.82	15.81	50	60	-35.18	-44.19	Phase 2	10.92
22.135	10.9	12.76	50	60	-39.1	-47.24	Phase 1	10.92
25.825	13.08	14.44	50	60	-36.92	-45.56	Phase 1	11.05
25.825	17.16	17.81	50	60	-32.84	-42.19	Phase 2	11.05
27.670	21.77	22.01	50	60	-28.23	-37.99	Phase 2	11.07
27.670	17.39	18.17	50	60	-32.61	-41.83	Phase 1	11.07
29.513	15.01	16.41	50	60	-34.99	-43.59	Phase 2	11.06

Result	Complies by 27.38 dB
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4.3.4 Test Configuration Photographs



4.5 Radiated Emissions on Digital Parts

FCC Ref: 15.109, ICES 003, RSS Gen

4.5.1 Test Limit

Limits for Electromagnetic Radiated Emissions FCC Section 15.109(b), ICES 003, RSS GEN*

Frequency (MHz)	Class A at 10m dB(μ V/m)	Class B at 3m dB(μ V/m)
30-88	39	40.0
88-216	43.5	43.5
216-960	46.4	46.0
Above 960	49.5	54.0

* According to FCC Part 15.109(g) an alternative to the radiated emission limits shown above, digital devices may be shown to comply with the limit of CISPR Pub. 22

4.5.2 Procedures

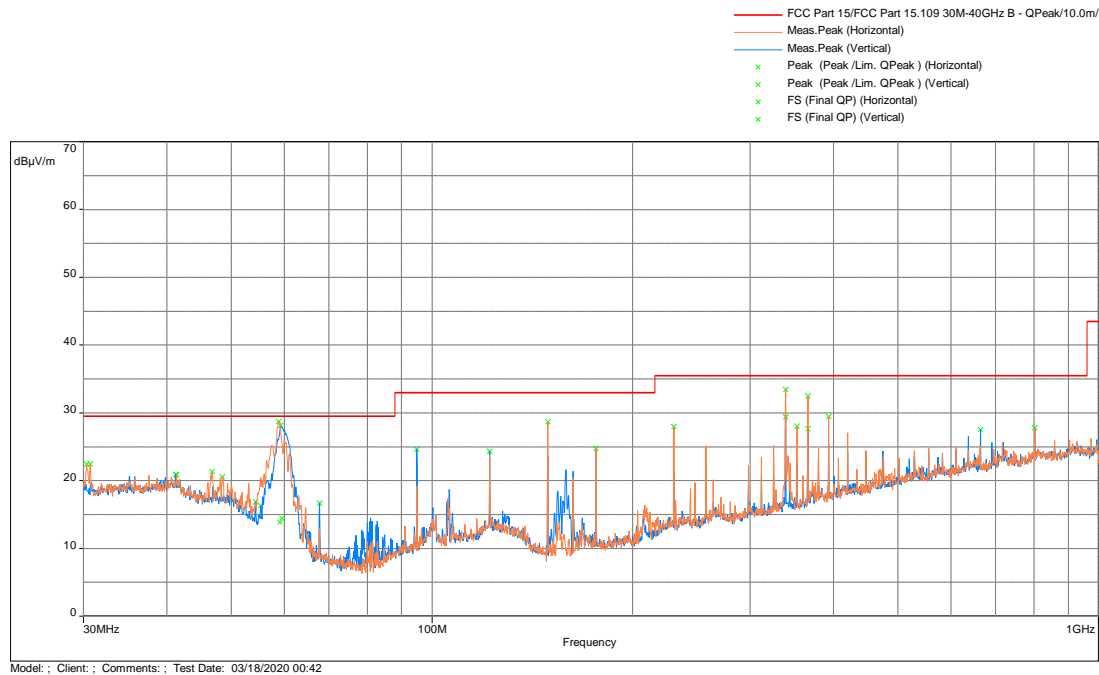
Radiated measurements were taken. 120 kHz resolution bandwidth was used from 30 MHz - 1 GHz. 1 MHz resolution bandwidth was used for measurements done above 1 GHz. All plots are corrected for cable loss, antenna factor, and preamp.

Radiated emission measurements were performed from 30 MHz to 18000 MHz. The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

Measurements recorded in this section were made with the Transmitter in Tx mode.

4.5.3 Test Results

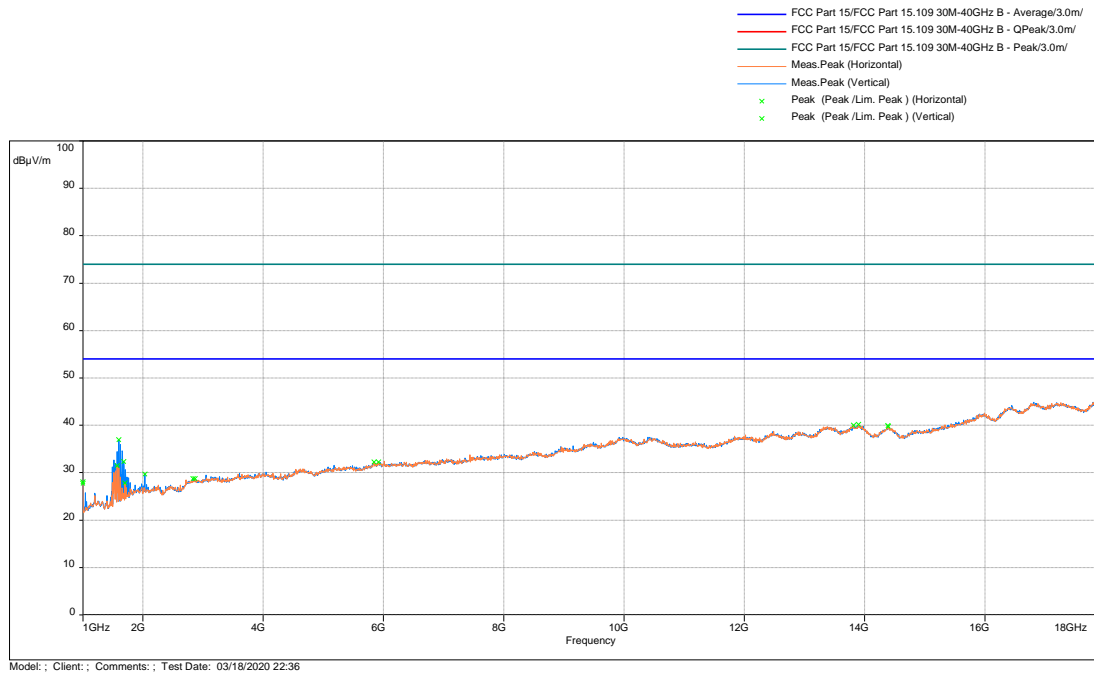
FCC Part 15 Subpart B and ICES-003, Radiated Disturbance, 30 MHz to 1000 MHz



Freq (MHz)	FS dB(uV/m)	Limit dB(uV/m)	Margin (dB)	Azimuth (Deg)	Height (m)	Polarity	Correction (dB)
59.106	13.87	29.5	-15.63	1.32	143.25	Vertical	-14.95
59.527	14.46	29.5	-15.04	3.81	287.5	Horizontal	-15.07
149.148	28.68	33	-4.32	3.98	359.25	Horizontal	-16.04
339.010	33.47	35.5	-2.03	2.48	150.5	Horizontal	-8.55
366.105	32.49	35.5	-3.01	2.48	150.5	Horizontal	-7.84
393.233	29.45	35.5	-6.05	2.48	150.5	Horizontal	-7.32

Note: FS = RA + Correction
Correction = AF + CF – Preamp

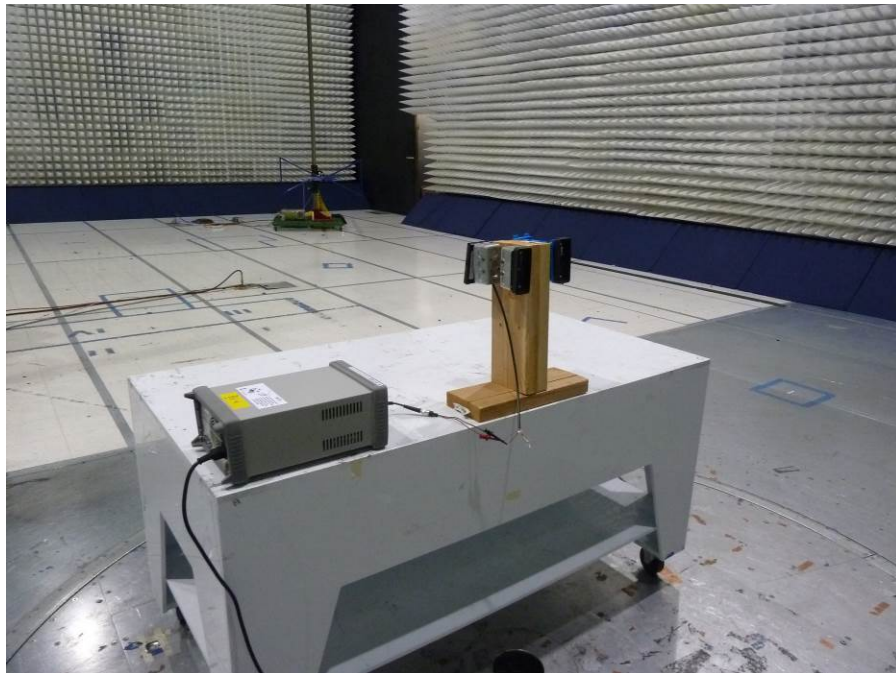
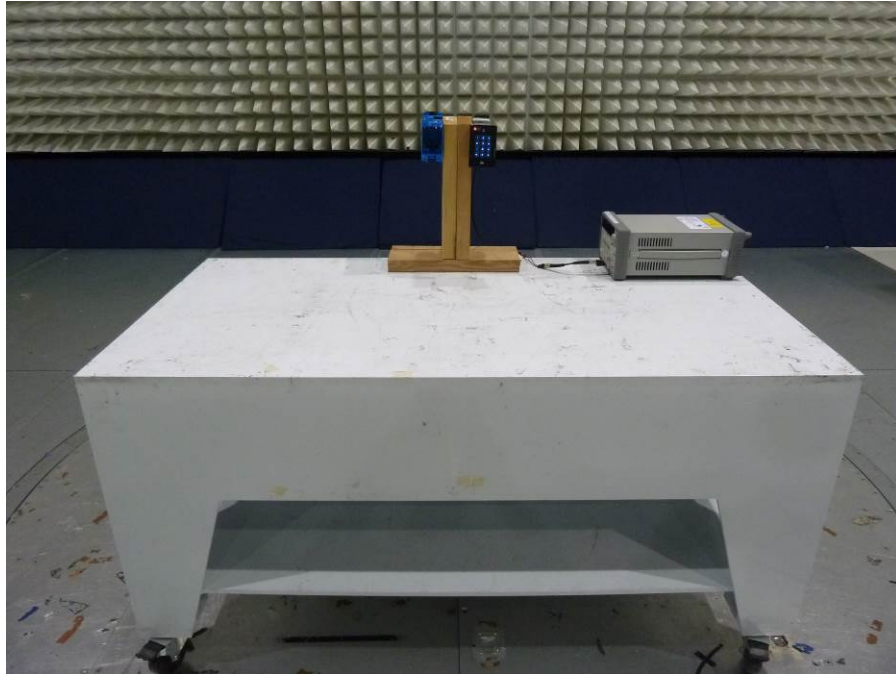
FCC Part 15 Subpart B and ICES-003, Radiated Disturbance, 1 – 18 GHz, Peak vs Avg Limits



Results

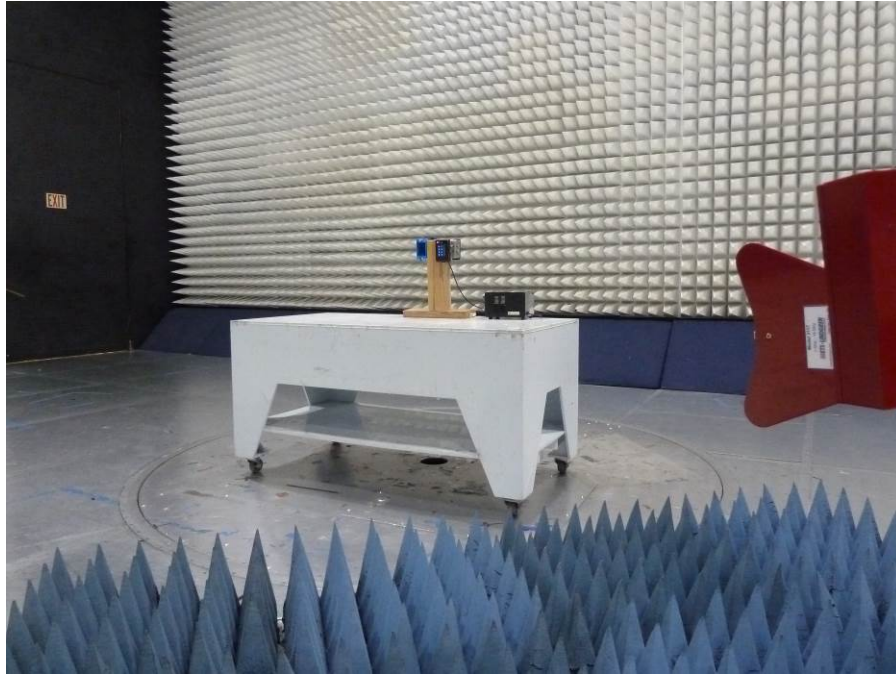
Complies by 6.72 dB for FCC Part 15 Subpart B and ICES-003

4.4.4 Test Configuration Photographs



Electromagnetic Radiated Disturbance Setup Photograph

4.4.4 Test Configuration Photographs (Continued)



5.0 List of test equipment

Measurement equipment used for emission compliance testing utilized the equipment on the following list:

Equipment	Manufacturer	Model/Type	Asset No.	Calibration	Cal Due
EMI Receiver	Rohde and Schwarz	ESR	ITS 01607	12	10/23/20
EMI Receiver	Rohde and Schwarz	ESU40	ITS 00961	12	11/07/20
Pre-Amplifier	Sonoma Instrument	310N	ITS 01493	12	02/07/21
BI-Log Antenna	Antenna Research	LPB-2513	ITS 00355	12	04/24/20
Passive Loop Antenna	EMCO	6512	ITS 01598	12	10/22/20
Active Horn Antenna	ETS-Lindgren	3117-PA	ITS 01365	12	07/08/20
Loop Sensor	Solar Electronics	7334-1	ITS 01608	12	10/09/20
RF Cable	TRU Corporation	TRU CORE 300	ITS 01462	12	08/27/20
RF Cable	TRU Corporation	TRU CORE 300	ITS 01465	12	08/27/20
RF Cable	TRU Corporation	TRU CORE 300	ITS 01470	12	08/27/20
RF Cable	TRU Corporation	TRU CORE 300	ITS 01342	12	10/07/20
Notch Filter	MICRO-TRONICS	BRM50702	ITS 01166	12	05/14/20
RF Cable	Mega Phase	EMC1-K1K1-	ITS 01537	12	04/17/21

Software used for emission compliance testing utilized the following:

Name	Manufacturer	Version	Template/Profile
BAT-EMC	Nexio	3.17.0.10	Farpointe_3-17-2020.bpp

6.0 Document History

Revision/ Job Number	Writer Initials	Reviewer Initials	Date	Change
1.0 / G104274811	AC	KV	May 18, 2020	Original document