



ISED RSS-210 ISSUE 10 FCC 47 CFR PART 15 SUBPART C

CERTIFICATION TEST REPORT

For

S700

MODEL NUMBER: S700

REPORT NUMBER: 4790587088-RF-5

ISSUE DATE: January 5, 2023

FCC ID: 2A2ES-STR70

IC: 28493-STR70

Prepared for

FCC Company Name: Stripe, Inc.
FCC Company Address: 354 Oyster Point Blvd, South San Francisco, CA 94080,
USA

ISED Company Name: BBPOS Limited
IC Company Address: Suite 1902-04, 19/F, Tower 2, Nina Tower, No. 8 Yeung Uk
Road Tsuen Wan New Territories 0000 Hongkong

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China

> Tel: +86 769 22038881 Fax: +86 769 33244054 Website: www.ul.com

The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.



REPORT NO.: 4790587088-RF-5 Page 2 of 32

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	01/05/2023	Initial Issue	



	Summary of Test Results				
Clause Test Items FC		FCC Rules	Test Results		
1	Transmitter 99% Emission Bandwidth / 20dB Bandwidth	Part 15.215 (c) RSS-Gen 6.7	PASS		
2	Transmitter Frequency Stability (Temperature & Voltage Variation)	CFR 47 FCC §15.225(e) ISED RSS-Gen Clause 6.11 ISED RSS-210 Annex B.6	PASS		
3	Fundamental Field Strength	CFR 47 FCC §5.225(a)(b)(c)(d) ISED RSS-Gen Clause 6.12 ISED RSS-210 Annex B.6	PASS		
4	Radiated Emissions	CFR 47 FCC§15.209(a) CFR 47 FCC§15.225(d) ISED RSS-Gen Clause 6.13 ISED RSS-210 Annex B.6	PASS		
5	Band Edge Radiated Emissions	CFR 47 FCC §15.209(a) CFR 47 FCC §15.225(c)(d) ISED RSS-Gen Clause 6.13 ISED RSS-210 Annex B.6	PASS		
6 Conducted Emission Test for AC Power Port		CFR 47 FCC §15.207 ISED RSS-Gen Clause 8.8	PASS		
7 Antenna Requirement		CFR 47 FCC §15.203 ISED RSS-Gen Clause 6.3	Pass		

Note:

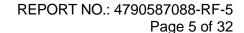
^{1.} This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

^{2.} The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART C > < ISED RSS-210 Issue 10 > < ISED RSS-GEN Issue 5 > when <Accuracy Method> decision rule is applied.



TABLE OF CONTENTS

1.	AT	TESTATION OF TEST RESULTS	. 5
2.	TES	ST METHODOLOGY	. 6
3.	FA	CILITIES AND ACCREDITATION	. 6
4.	CA	LIBRATION AND UNCERTAINTY	. 7
4	4.1.	MEASURING INSTRUMENT CALIBRATION	. 7
4	4.2.	MEASUREMENT UNCERTAINTY	. 7
5.	EQ	UIPMENT UNDER TEST	. 8
	5.1.	DESCRIPTION OF EUT	. 8
	5.2.	MAXIMUM FIELD STRENGTH	. 8
	5.3.	DESCRIPTION OF AVAILABLE ANTENNAS	. 8
	5. <i>4.</i>	DESCRIPTION OF TEST SETUP	. 9
	5.5.	MEASURING INSTRUMENT AND SOFTWARE USED	10
6.	ΑN	TENNA PORT TEST RESULTS	11
6	6.1.	99% & 20dB BANDWIDTH	11
(5.2.	TRANSMITTER FREQUENCY STABILITY	13
7.	RA	DIATED EMISSION TEST RESULTS	15
7	7.1.	FIELD STRENGTH OF INTENTIONAL EMISSIONS	21
7	7.2.	SPURIOUS EMISSIONS BELOW 1 GHz AND ABOVE 30 MHz	22
7	7.3.	SPURIOUS EMISSIONS BELOW 30MHz	24
8.	AC	POWER LINE CONDUCTED EMISSIONS	27
۵	V VI.	TENNA DECLUDEMENTS	33





1. ATTESTATION OF TEST RESULTS

Applicant Information

FCC Company Name: Stripe, Inc.

Address: 354 Oyster Point Blvd, South San Francisco, CA 94080, USA

ISED Company Name: BBPOS Limited

Address: Suite 1902-04, 19/F, Tower 2, Nina Tower, No. 8 Yeung Uk Road

Tsuen Wan New Territories 0000 Hongkong

Manufacturer Information

FCC Company Name: Stripe, Inc.

Address: 354 Oyster Point Blvd, South San Francisco, CA 94080, USA

ISED Company Name: BBPOS Limited

Address: Suite 1902-04, 19/F, Tower 2, Nina Tower, No. 8 Yeung Uk Road

Tsuen Wan New Territories 0000 Hongkong

EUT Information

EUT Name: \$700 Model: \$700

Sample Received Date: November 21, 2022

Sample ID: 5553901

Date of Tested: December 2, 2022 to January 5, 2023

APPLICABLE STANDARDS				
STANDARD TEST RESULTS				
CFR 47 FCC PART 15 SUBPART C	PASS			
ISED RSS-210 Issue 10	PASS			
ISED RSS-GEN Issue 5	PASS			

Prepared By:

kelo. Theny.

Checked By:

Kebo Zhang

Senior Project Engineer

Approved By:

Denny Huang

Senior Project Engineer

Stephen Guo

Laboratory Manager



2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 414788 D01 Radiated Test Site v01r01, FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2013, ISED RSS-210 Issue 10 and RSS-GEN Issue 5.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Delcaration of Conformity (DoC) and Certification rules ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004

Note:

- 1. All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China
- 2. The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.
- 3. For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OFS.



4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognize national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission	5.78 dB (1 GHz ~ 18 GHz)
(Included Fundamental Emission) (1 GHz to 26 GHz)	5.23 dB (18 GHz ~ 26 GHz)
Duty Cycle	±0.028%
DTS and 99% Occupied Bandwidth	±0.0196%
Frequency Stability	±2.76%

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

Product Name	S700		
Model	S700		
Product Description	Operation Frequency	13.56 MHz	
Ratings	DC 3.87 V		

5.2. MAXIMUM FIELD STRENGTH

Frequency (MHz)	Max Peak field strength (dBμV/m)	
13.56	17.11	

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
13.56	Coil Antenna	0



5.4. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	Lenovo	T430	/
2	Adapter	nubia	PA0202	Input: AC 100 ~ 240 V, 50/60 Hz, 1.5 A Output: 5 V, 3 A, 9 V, 3 A
3	Earphone	apple	/	/
4	Test Card	/	/	NFC

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	Type-C	/	/	1.0	/

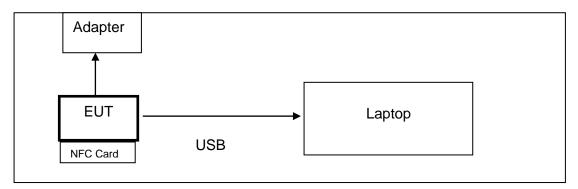
ACCESSORY

Item Accessory Brand Nam		Brand Name	Model Name	Description
/	/	/	/	/

TEST SETUP

The EUT can work in engineering mode with a software through a Laptop. NFC support both ISO /IEC 14443A and ISO /IEC 14443B. All lowest and highest data rates as per the standards are supported - 106 kbps, 212 kbps, 424 kbps and 848 kbps, all the modes had been tested, but only the worst data (ISO 14443A 106 kbps) was recorded in the report.

SETUP DIAGRAM FOR TESTS



Note: Test was performed with tag and without tag, but only the worst case data (with tag) was recorded in the report.



5.5. MEASURING INSTRUMENT AND SOFTWARE USED

Conducted Emissions							
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date		
EMI Test Receiver	R&S	ESR3	101961	Oct.17, 2022	Oct.16, 2023		
Two-Line V- Network	R&S	ENV216	101983	Oct.17, 2022	Oct.16, 2023		
Software							
Description			Manufacturer	Name	Version		
Test Software for Conducted Emissions			Farad	EZ-EMC	Ver. UL-3A1		

Radiated Emissions						
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date	
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.17, 2022	Oct.16, 2023	
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024	
Preamplifier	HP	8447D	2944A09099	Oct.17, 2022	Oct.16, 2023	
Loop antenna	Schwarzbeck	1519B	80000	Dec.14, 2021	Dec.13, 2024	
Preamplifier	TDK	PA-02-001- 3000	TRS-302- 00050	Oct.17, 2022	Oct.16, 2023	
Attenuator	Agilent	8495B	2814a12853	Oct.18, 2022	Oct.17, 2023	
Software						
	Description		Manufacturer	Name	Version	
Test Software	for Radiated E	missions	Farad	EZ-EMC	Ver. UL-3A1	



6. ANTENNA PORT TEST RESULTS

6.1. 99% & 20dB BANDWIDTH

LIMITS

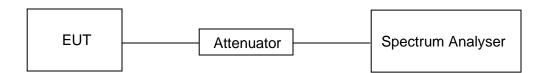
FCC Part15 (15.215) Subpart C RSS-247 ISSUE 2					
Section Test Item Limit					
ANSI C63.10 Section 6.9.2 20dB % Bandwidth For reporting purposes only.					
RSS-Gen Clause 6.7	RSS-Gen Clause 6.7 99 % Bandwidth For reporting purposes only.				

TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW is set to 1 kHz. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

Note: Because the measured signal is CW or CW-like adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

TEST SETUP



TEST ENVIRONMENT

Temperature	26.3 °C	Relative Humidity	63 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.87 V



RESULTS

Frequency	99 % bandwidth	20 dB bandwidth
(MHz)	(kHz)	(kHz)
13.56	5.371	3.832

Occupied Bandwidth





6.2. TRANSMITTER FREQUENCY STABILITY

LIMITS

CFR 47 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.

ISED RSS-210 Annex B B.5

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.

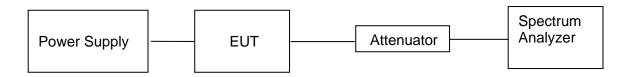
TEST SETUP AND PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	PEAK
RBW	10 kHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

Allow the trace to stabilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

TEST SETUP



TEST ENVIRONMENT

Temperature	26.3 °C	Relative Humidity	63 %
Atmosphere Pressure	101 kPa	Test Voltage	/



TEST RESULTS

Maximum frequency error of the EUT with variations in ambient temperature

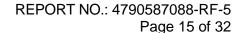
	Time after Start-up					
Temperature (°C)	0 minutes (MHz)	2 minutes (MHz)	5 minutes (MHz)	10 minutes (MHz)		
-20	13.5607	13.5608	13.5609	13.5608		
-10	13.5604	13.5607	13.5606	13.5608		
0	13.5607	13.5605	13.5608	13.5605		
10	13.5607	13.5606	13.5608	13.5607		
20	13.5604	13.5606	13.5603	13.5606		
30	13.5608	13.5605	13.5602	13.5606		
40	13.5605	13.5604	13.5607	13.5608		
50	13.5605	13.5607	13.5607	13.5606		

Nominal Frequency (MHz)	Frequency with Worst Case Deviation (MHz)	Frequency Error (MHz)	Frequency Error (%)	Limit (%)	Result
13.56	13.5609	0.0009	0.007	0.01	Pass

Maximum frequency error of the EUT with variations in nominal operating voltage at a temperature of 20 degrees C.

	Time after Start-up				
Supply Voltage (V)	0 minutes	2 minutes	5 minutes	10 minutes	
	(MHz)	(MHz)	(MHz)	(MHz)	
DC 3.2895 V	13.5606	13.5607	13.5604	13.5606	
DC 3.87 V	13.5603	13.5605	13.5605	13.5604	
DC 4.4505 V	13.5606	13.5606	13.5607	13.5606	
Maximum frequency error (MHz)	0.0006	0.0007	0.0007	0.0006	
Limit	0.01%				
Result	Pass	Pass	Pass	Pass	

Note: Base on ANSI C63.10 clause 5.13, Both AC power supply and DC power supply have been tested, only the worst data of DC power supply was recorded in the report.





7. RADIATED EMISSION TEST RESULTS

LIMITS

Fundamental field strength

FCC Reference: Part 15.225(a)(b)(c)(d) & 15.209(a)	
ISED Reference:	RSS-Gen 6.13 & RSS-210 B.6 & RSS-GEN Clause 8.9
Test Method Used:	ANSI C63.10 Sections 6.3, 6.4 and 6.5

Frequency (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measured Distance (Meters)
13.553-13.567	15848	84	30
13.410-13.553/13.567-13.710	334	50.47	30
13.110-13.410/13.710-14.010	106	40.51	30

Note(s):

- 1. 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.
- 2. The limit is specified at a test distance of 30 meters. However, as specified by FCC Section 15.31 (f)(2) / RSS-Gen Section 6.4, measurements may be performed at a closer distance and the measured level corrected to the specified measurement distance by using the square of an inverse linear distance extrapolation factor (40dB/decade).

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz-1 GHz)

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
960~1000	500	3

Note: 1) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).



(2) At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). This paragraph (f) shall not apply to Access BPL devices operating below 30MHz.

Restricted bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ²Above 38.6c



IC Restricted bands please refer to ISED RSS-GEN Clause 8.10

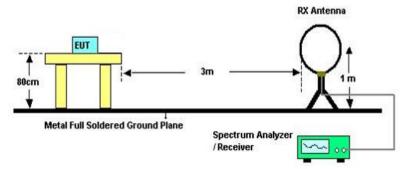
149.9 - 150.05 9.0 - 9.2 149.9 - 150.05 9.0 - 9.2 156.52475 - 156.52525 9.3 - 9.5 156.52475 - 156.52525 9.3 - 9.5 156.7 - 156.9 10.6 - 12.7 13.020 - 3.026 162.0125 - 167.17 13.25 - 13.4 1.125 - 4.128 167.72 - 173.2 14.47 - 14.5 1.17725 - 4.17775 240 - 285 15.35 - 16.2 1.20725 - 4.20775 322 - 335.4 17.7 - 21.4 5.677 - 5.683 399.9 - 410 22.01 - 23.12 5.677 - 5.683 99.9 - 410 22.01 - 23.12 5.215 - 6.218 908 - 614 23.6 - 24.0 5.26775 - 6.28825 960 - 1427 31.2 - 31.8 5.31175 - 6.31225 1435 - 1626.5 36.3 - 36.5 5.31175 - 6.31225 1435 - 1626.5 36.3 - 36.5 5.3291 - 8.294 1645.5 - 1646.5 Above 38.6 1660 - 1710 5.37625 - 8.38675 1718.8 - 1722.2 5.41425 - 8.34675 1718.8 - 1722.2 5.41425 - 8.44475 2200 - 2300 12.29 - 12.293 2310 - 2390 12.51975 - 12.5725 2655 - 2560 13.36 - 13.41 3290 - 3267 13.36 - 13.41 3290 - 3267 16.642 - 16.6423 332 - 3339 16.69475 - 16.69525 3345.8 - 3358 16.69475 - 16.69525 3345.8 - 3358 16.69475 - 16.69525 3345.8 - 3358 16.69475 - 16.69525 3350 - 4400 27.3 - 74.6 7250 - 7750 27.5 - 38.25 5350 - 5460 27.3 - 74.6 7250 - 5550		Table 7 – Restricted frequency bands	Note 1
156.52475 - 156.5255 156.7 - 156.9 156.7 - 156.9 10.6 - 12.7 13.020 - 3.026 162.0125 - 167.17 13.25 - 13.4 1.125 - 4.128 167.7 2 - 173.2 14.47 - 14.5 1.17725 - 4.17775 240 - 285 15.35 - 16.2 1.20725 - 4.20775 322 - 335.4 17.7 - 21.4 5.677 - 5.683 399.9 - 410 22.01 - 23.12 5.677 - 5.683 399.9 - 410 22.01 - 23.12 5.677 - 6.28825 960 - 1427 31.2 - 31.8 5.31175 - 6.31225 1435 - 1626.5 36.43 - 36.5 3291 - 8.294 1645.5 - 1646.5 Above 38.6 1660 - 1710 3.37625 - 8.38675 1718.8 - 1722.2 5.41425 - 8.41475 2200 - 2300 12.29 - 12.293 2310 - 2390 12.51975 - 12.5725 2655 - 2900 13.36 - 13.41 3260 - 3267 3362 - 3359 16.69475 - 16.69525 3345.8 - 3359 16.69475 - 16.69525 3345.8 - 3359 16.69475 - 16.69525 3345.8 - 3359 37.5 - 38.25 4500 - 5150 37.5 - 38.25 5350 - 5460 773 - 74.6 7250 - 7750	MHz	MHz	GHz
2.1735 - 2.1905 156.7 - 156.9 10.6 - 12.7 3.020 - 3.026 162.0125 - 167.17 13.25 - 13.4 4.125 - 4.128 167.72 - 173.2 14.47 - 14.5 4.17725 - 4.17775 240 - 285 15.35 - 16.2 4.20725 - 4.20775 322 - 335.4 17.7 - 21.4 5.677 - 5.683 399.9 - 410 22.01 - 23.12 5.215 - 6.218 608 - 614 23.6 - 24.0 3.215 - 6.2825 960 - 1427 31.2 - 31.8 3.31175 - 6.31225 1435 - 1626.5 36.43 - 36.5 3.291 - 8.294 1645.5 - 1646.5 Above 38.6 3.362 - 8.366 1660 - 1710 33.3625 - 8.3675 1718.8 - 1722.2 3.41425 - 8.41475 2200 - 2300 312.51975 - 12.52025 2483.5 - 2500 12.291 - 12.293 2310 - 2390 330 - 3367 13.36 - 13.41 3260 - 3267 3332 - 3339 16.62 - 16.6925 3345.8 - 3358 16.69475 - 16.69525 37.5 - 38.25 5350 - 5460 373 - 74.6 7250 - 7750 47.8 - 75.2 8025 - 8500 3025 - 8500	0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
162.0125 - 167.17	0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
1.125 - 4.128	2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
4.17725 - 4.17775 240 - 285 15.35 - 16.2 4.20725 - 4.20775 322 - 335.4 17.7 - 21.4 5.677 - 5.683 399.9 - 410 22.01 - 23.12 5.215 - 6.218 608 - 614 23.6 - 24.0 5.26775 - 6.26825 960 - 1427 31.2 - 31.8 3.31175 - 6.31225 1435 - 1626.5 36.43 - 36.5 3.291 - 8.294 1645.5 - 1646.5 Above 38.6 3.362 - 8.366 1660 - 1710 3.37625 - 8.38675 3.41425 - 8.41475 2200 - 2300 3.31229 12.29 - 12.293 2310 - 2390 3.212.51975 - 12.52025 12.51975 - 12.52025 2483.5 - 2500 3.36 - 13.41 16.642 - 16.423 3332 - 3339 3.36 - 13.41 16.69475 - 16.69525 3345.8 - 3358 16.60475 - 16.69525 3500 - 4400 25.5 - 25.67 4500 - 5150 37.5 - 38.25 5350 - 5460 74.8 - 75.2 8025 - 8500	3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
322 - 335.4 17.7 - 21.4 22.01 - 23.12 22.01 - 23.12 22.01 - 23.12 23.6 - 24.0 23.6 23.6 23.6 23.6 23.6 23.6 23.6 23.6	4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
5.677 - 5.683 399.9 - 410 22.01 - 23.12 5.215 - 6.218 608 - 614 23.6 - 24.0 5.26775 - 6.26825 960 - 1427 31.2 - 31.8 5.31175 - 6.31225 1435 - 1626.5 36.43 - 36.5 3.291 - 8.294 1645 5 - 1646.5 Above 38.6 3.37625 - 8.38675 1718.8 - 1722.2 3.41425 - 8.41475 2200 - 2300 12.29 - 12.293 2310 - 2390 12.51975 - 12.52025 2483.5 - 2500 13.36 - 13.41 3260 - 3267 16.42 - 16.423 3332 - 3339 16.69475 - 16.69525 3345.8 - 3358 16.69475 - 16.80475 3500 - 4400 25.5 - 25.67 4500 - 5150 37.5 - 38.25 5350 - 5460 74.8 - 75.2 8025 - 8500	4.17725 - 4.17775	240 – 285	15.35 - 16.2
5.215 - 6.218 608 - 614 23.6 - 24.0 5.26775 - 6.26825 960 - 1427 31.2 - 31.8 5.31175 - 6.31225 1435 - 1626.5 36.43 - 36.5 5.291 - 8.294 1645.5 - 1646.5 Above 38.6 5.362 - 8.366 1660 - 1710 5.37625 - 8.38675 1718.8 - 1722.2 5.41425 - 8.41475 2200 - 2300 5.229 - 12.293 2310 - 2390 5.251975 - 12.52025 2483.5 - 2500 5.257675 - 12.57725 2655 - 2900 5.336 - 13.41 3260 - 3267 5.4642 - 16.423 3332 - 3339 5.669475 - 16.69525 345.8 - 3358 5.69475 - 16.89475 3500 - 4400 5.55 - 25.67 4500 - 5150 5.75 - 38.25 5350 - 5460 5.74.8 - 75.2 8025 - 8500	4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.26775 - 6.26825 960 - 1427 31.2 - 31.8 5.31775 - 6.31225 1435 - 1626.5 36.43 - 36.5 5.391 - 8.294 1645.5 - 1646.5 Above 38.6 5.392 - 8.366 1660 - 1710 5.37625 - 8.38675 1718.8 - 1722.2 5.41425 - 8.41475 2200 - 2300 12.29 - 12.293 2310 - 2390 12.51975 - 12.52025 2483.5 - 2500 12.57675 - 12.57725 2655 - 2900 13.36 - 13.41 3260 - 3267 16.42 - 16.423 3332 - 3339 16.69475 - 16.69525 345.8 - 3358 16.69475 - 16.89475 3500 - 4400 25.5 - 25.67 4500 - 5150 37.5 - 38.25 5350 - 5460 73.7 - 74.6 7250 - 7750	5.677 - 5.683	399.9 - 410	22.01 - 23.12
1435 - 1626.5 38.43 - 36.5 38.291 - 8.294 1645.5 - 1646.5 Above 38.6 3.362 - 8.366 1660 - 1710 3.37625 - 8.38675 1718.8 - 1722.2 3.41425 - 8.41475 2200 - 2300 12.29 - 12.293 2310 - 2390 12.57675 - 12.5725 2655 - 2900 13.36 - 13.41 3260 - 3267 16.42 - 16.423 3332 - 3339 16.69475 - 16.69525 345.8 - 3358 16.80425 - 16.80475 3500 - 4400 25.5 - 25.67 4500 - 5150 37.5 - 38.25 5350 - 5460 74.8 - 75.2 8025 - 8500	6.215 - 6.218	608 - 614	23.6 - 24.0
3.291 - 8.294 1645.5 - 1646.5 Above 38.6 1660 - 1710 3.37625 - 8.38675 1718.8 - 1722.2 3.41425 - 8.41475 2200 - 2300 3.12.51975 - 12.52025 2483.5 - 2500 3.12.51975 - 12.52025 2655 - 2900 3.336 - 13.41 3260 - 3267 3332 - 3339 36.69475 - 16.69525 3345.8 - 3358 316.69475 - 16.89475 3500 - 4400 37.5 - 38.25 5500 5460 37.5 - 38.25 5500 5460 37.5 - 38.25 5500 5460 37.5 - 37.5 - 38.25 5500 5460 37.5 - 37.5 - 38.25 5500 5460 37.5 - 37.5 - 38.25 5500 5460 37.5 - 38.25 5500 5460 37.5 - 38.25 5500 5460 37.5 - 38.25 5500 5460 37.5 - 38.25 5500 5460 37.5 - 38.25 5500 5460 37.5 - 38.25 5500 5460 37.5 - 38.25 5500 5460 37.5 - 38.25 5500 5460 37.5 - 38.25 5500 5460 37.5 - 38.25 5500 5460 37.5 - 38.25 5500 5460 37.5 - 38.25 5500 5460 37.5 - 38.25 5500 5460 37.5 - 38.25 5500 5460 37.5 - 38.25 5500 5460 37.5 - 38.25 5500 5460 37.5 - 38.25 5500 5460 37.5 - 38.25 5500 5460 37.5 - 38.25 5500 37.5 - 38.2	6.26775 - 6.26825	960 - 1427	31.2 - 31.8
1,362 - 8,366 1660 - 1710 1718.8 - 1722.2 1718	6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
3.37625 - 8.38675 1718.8 - 1722.2 3.41425 - 8.41475 2200 - 2300 12.29 - 12.293 2310 - 2390 12.51975 - 12.52025 2483.5 - 2500 12.57675 - 12.57725 2655 - 2900 13.36 - 13.41 3260 - 3267 16.42 - 16.423 3332 - 3339 16.69475 - 16.69525 3345.8 - 3358 16.80425 - 16.80475 3500 - 4400 25.5 - 25.67 4500 - 5150 37.5 - 38.25 5350 - 5460 73 - 74.6 7250 - 7750 74.8 - 75.2 8025 - 8500	8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.41425 - 8.41475 2200 - 2300 12.29 - 12.293 2310 - 2390 12.51975 - 12.52025 2483.5 - 2500 12.57675 - 12.57725 2655 - 2900 13.36 - 13.41 3260 - 3267 16.42 - 16.423 3332 - 3339 16.69475 - 16.69525 3345.8 - 3358 16.80425 - 16.80475 3500 - 4400 25.5 - 25.67 4500 - 5150 37.5 - 38.25 5350 - 5460 73 - 74.6 7250 - 7750 74.8 - 75.2 8025 - 8500	8.362 - 8.366	1660 - 1710	
12.29 · 12.293 2310 · 2390 12.51975 · 12.52025 2483.5 · 2500 12.57675 · 12.57725 2655 · 2900 13.36 · 13.41 3260 – 3267 16.42 · 16.423 3332 · 3339 16.69475 · 16.69525 3345.8 · 3358 16.80425 · 16.80475 3500 · 4400 25.5 · 25.67 4500 · 5150 37.5 · 38.25 5350 · 5460 73 · 74.6 7250 · 7750 74.8 · 75.2 8025 – 8500	8.37625 - 8.38675	1718.8 - 1722.2	
12.51975 - 12.52025	8.41425 - 8.41475	2200 - 2300	
12.57675 - 12.57725 2655 - 2900 13.36 - 13.41 3260 - 3267 16.42 - 16.423 3332 - 3339 16.69475 - 16.69525 3345.8 - 3358 16.80425 - 16.80475 3500 - 4400 25.5 - 25.67 4500 - 5150 37.5 - 38.25 5350 - 5460 73 - 74.6 7250 - 7750 74.8 - 75.2 8025 - 8500	12.29 - 12.293	2310 - 2390	
13.36 - 13.41 3260 - 3267 16.42 - 16.423 3332 - 3339 16.69475 - 16.69525 3345.8 - 3358 16.80425 - 16.80475 3500 - 4400 25.5 - 25.67 4500 - 5150 37.5 - 38.25 5350 - 5460 73 - 74.6 7250 - 7750 74.8 - 75.2 8025 - 8500	12.51975 - 12.52025	2483.5 - 2500	
16.42 - 16.423 3339 3332 - 3339 316.69475 - 16.69525 3345.8 - 3358 3500 - 4400 325.5 - 25.67 4500 - 5150 37.5 - 38.25 5350 - 5460 7250 - 7750 74.8 - 75.2 8025 - 8500	12.57675 - 12.57725	2655 - 2900	
16.69475 - 16.69525 3345.8 - 3358 16.89425 - 16.89475 3500 - 4400 25.5 - 25.67 4500 - 5150 37.5 - 38.25 5350 - 5460 73 - 74.6 7250 - 7750 74.8 - 75.2 8025 - 8500	13.36 - 13.41	3260 - 3267	
16.80425 - 16.80475 3500 - 4400 25.5 - 25.67 4500 - 5150 37.5 - 38.25 5350 - 5460 7250 - 7750 74.8 - 75.2 8025 - 8500	16.42 - 16.423	3332 - 3339	
25.5 - 25.67 4500 - 5150 37.5 - 38.25 5350 - 5460 73 - 74.6 7250 - 7750 74.8 - 75.2 8025 - 8500	16.69475 - 16.69525	3345.8 - 3358	
77.5 - 38.25 5350 - 5460 73 - 74.6 7250 - 7750 74.8 - 75.2 8025 - 8500	16.80425 - 16.80475	3500 - 4400	
73 - 74.6 7250 - 7750 74.8 - 75.2 8025 - 8500	25.5 - 25.67	4500 - 5150	
74.8 - 75.2 8025 – 8500	37.5 - 38.25	5350 - 5460	
	73 - 74.6	7250 - 7750	
108 – 138	74.8 - 75.2	8025 - 8500	
	108 – 138		

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.



TEST SETUP AND PROCEDURE

Below 30 MHz



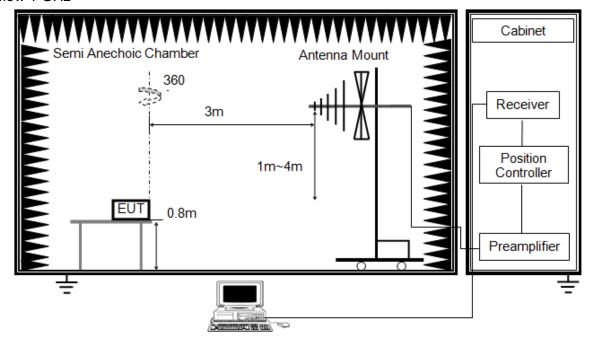
The setting of the spectrum analyser

	3 1 7
RBW	200 Hz (From 9 kHz to 0.15 MHz) / 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz) / 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
- 2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
- 5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
- 6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode remeasured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
- 7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30 m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
- 8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377 Ω . For example, the measurement frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.



Below 1 GHz



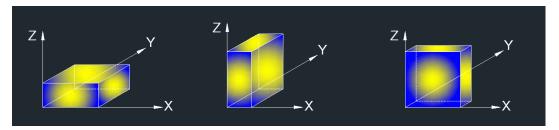
The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 7. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.



X axis, Y axis, Z axis positions:



Note: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

TEST ENVIRONMENT

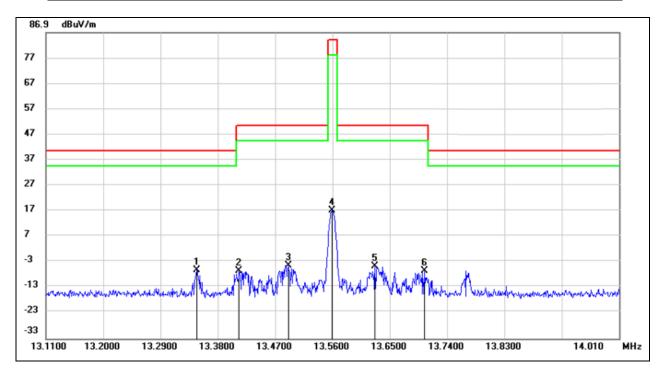
Temperature	25.2 °C	Relative Humidity	65 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

RESULTS



7.1. FIELD STRENGTH OF INTENTIONAL EMISSIONS

FIELD STRENGTH OF INTENTIONAL EMISSIONS (LOOP ANTENNA FACE ON TO THE EUT)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	13.3467	55.06	-61.40	-6.34	40.51	-46.85	peak
2	13.4131	54.85	-61.40	-6.55	50.47	-57.02	peak
3	13.4907	57.07	-61.41	-4.34	50.47	-54.81	peak
4	13.5591	78.52	-61.41	17.11	84.00	-66.89	peak
5	13.6265	56.62	-61.41	-4.79	50.47	-55.26	peak
6	13.7040	54.96	-61.41	-6.45	50.47	-56.92	peak

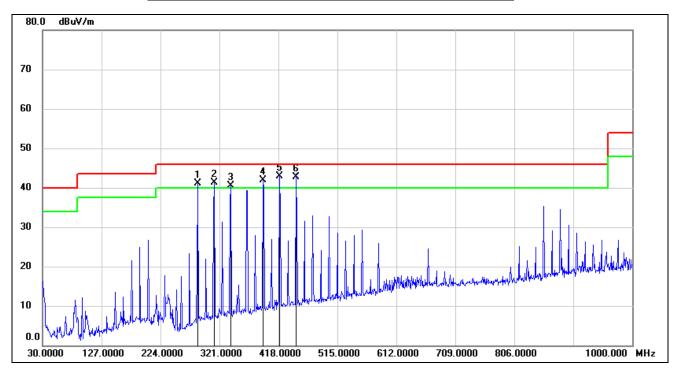
Note: 1. Result Level = Read Level + Correct Factor.

2. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.



7.2. SPURIOUS EMISSIONS BELOW 1 GHz AND ABOVE 30 MHz

HARMONICS AND SPURIOUS EMISSIONS (HORIZONTAL)



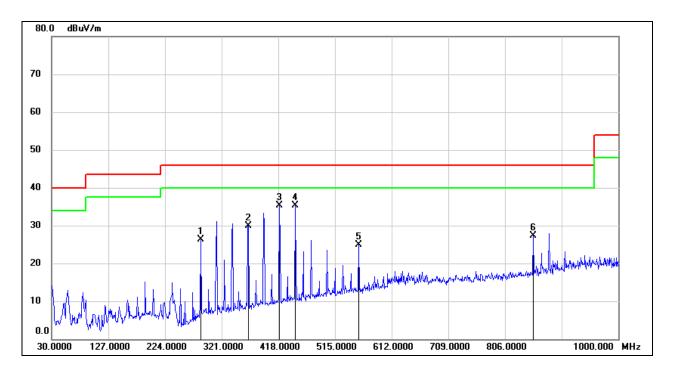
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	285.1099	57.38	-16.29	41.09	46.00	-4.91	QP
2	312.2700	56.22	-15.01	41.21	46.00	-4.79	QP
3	339.4300	54.98	-14.45	40.53	46.00	-5.47	QP
4	392.7800	55.43	-13.46	41.97	46.00	-4.03	QP
5	419.9400	55.84	-12.99	42.85	46.00	-3.15	QP
6	447.1000	55.21	-12.51	42.70	46.00	-3.30	QP

Note:

- 1. Result Level = Read Level + Correct Factor.
- 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- 3. All modes, channels and antennas have been tested, only the worst data was recorded in the report.



HARMONICS AND SPURIOUS EMISSIONS (VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	285.1099	42.61	-16.29	26.32	46.00	-19.68	QP
2	366.5900	43.95	-14.01	29.94	46.00	-16.06	QP
3	419.9400	48.31	-12.99	35.32	46.00	-10.68	QP
4	447.1000	47.86	-12.51	35.35	46.00	-10.65	QP
5	555.7400	35.26	-10.39	24.87	46.00	-21.13	QP
6	854.5000	33.41	-6.14	27.27	46.00	-18.73	QP

Note:

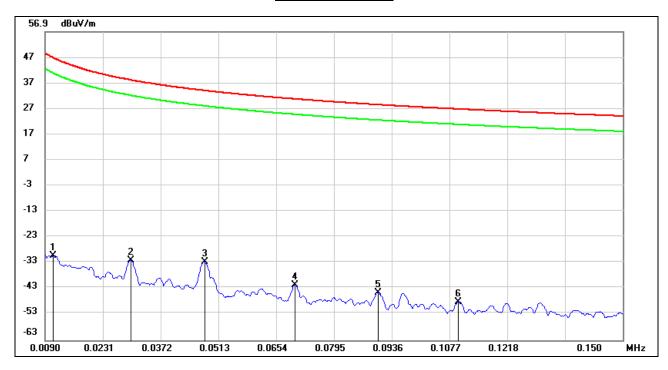
- 1. Result Level = Read Level + Correct Factor.
- 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- 3. All modes, channels and antennas have been tested, only the worst data was recorded in the report.



7.3. SPURIOUS EMISSIONS BELOW 30MHz

SPURIOUS EMISSIONS (LOOP ANTENNA FACE ON TO THE EUT)

0.09 kHz ~ 150 kHz



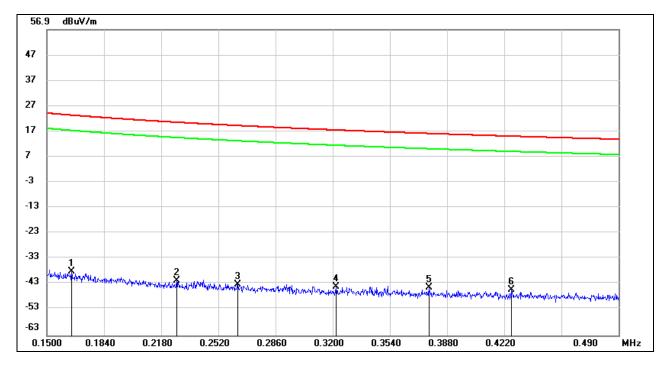
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0110	71.27	-101.52	-30.25	46.77	-77.02	peak
2	0.0299	68.96	-101.11	-32.15	38.09	-70.24	peak
3	0.0478	68.63	-101.35	-32.72	34.01	-66.73	peak
4	0.0699	59.37	-100.98	-41.61	30.71	-72.32	peak
5	0.0902	56.53	-101.12	-44.59	28.50	-73.09	peak
6	0.1098	53.22	-101.41	-48.19	26.80	-74.99	peak

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.



150 kHz ~ 490 kHz



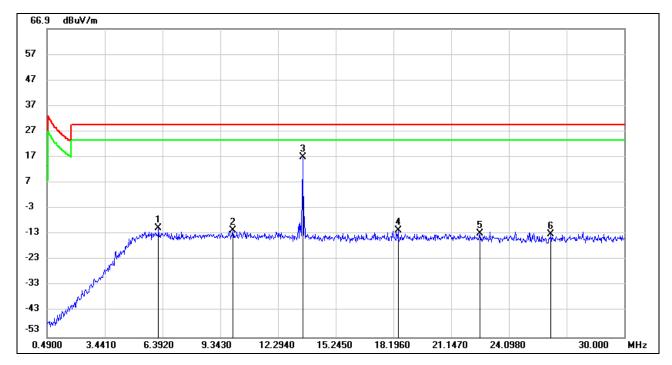
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1646	63.77	-101.88	-38.11	23.28	-61.39	peak
2	0.2272	60.24	-101.81	-41.57	20.47	-62.04	peak
3	0.2636	58.64	-101.78	-43.14	19.18	-62.32	peak
4	0.3220	57.80	-101.77	-43.97	17.44	-61.41	peak
5	0.3771	57.35	-101.75	-44.40	16.07	-60.47	peak
6	0.4261	56.61	-101.73	-45.12	15.01	-60.13	peak

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.



490 kHz ~ 30 MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	6.1854	51.11	-61.76	-10.65	29.54	-40.19	peak
2	9.9922	49.57	-61.20	-11.63	29.54	-41.17	peak
3	13.5629	78.44	-61.41	17.03	/	/	Fundamental
4	18.4320	49.73	-61.22	-11.49	29.54	-41.03	peak
5	22.6224	48.18	-61.03	-12.85	29.54	-42.39	peak
6	26.2522	47.92	-60.89	-12.97	29.54	-42.51	peak

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
 - 4. About the Fundamental emission test result please refer to section 7.1.



8. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

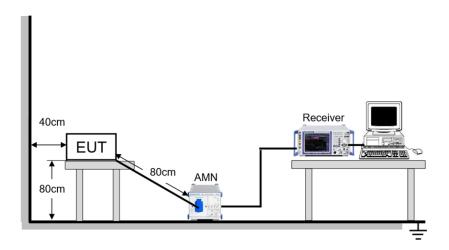
TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 6.2.

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP

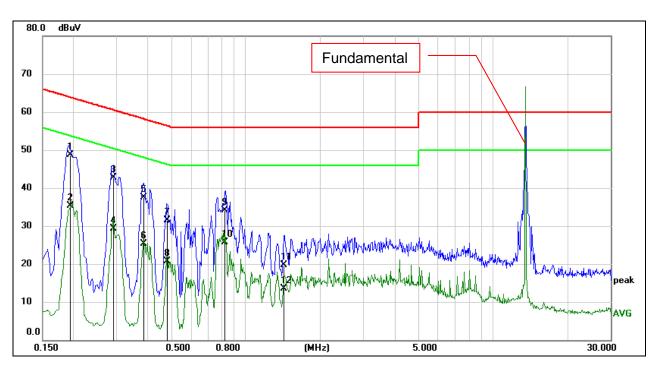




TEST ENVIRONMENT

Temperature	26.2 °C	Relative Humidity	64 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

LINE N RESULTS WITH UNMODIFIED SAMPLE (ANTENNA PRESENT)



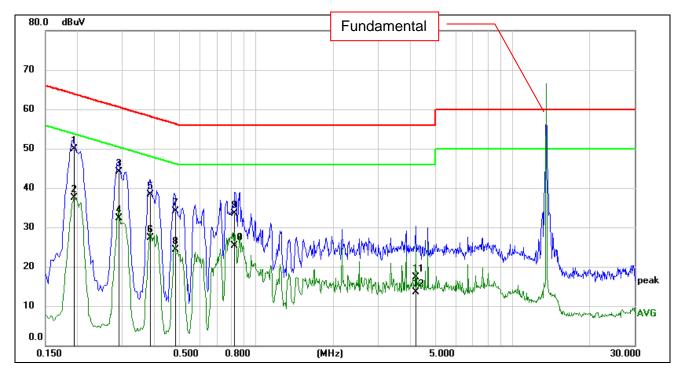
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1942	39.08	9.59	48.67	63.85	-15.18	QP
2	0.1942	25.62	9.59	35.21	53.85	-18.64	AVG
3	0.2901	33.11	9.59	42.70	60.52	-17.82	QP
4	0.2901	19.71	9.59	29.30	50.52	-21.22	AVG
5	0.3857	27.89	9.59	37.48	58.16	-20.68	QP
6	0.3857	15.66	9.59	25.25	48.16	-22.91	AVG
7	0.4793	21.94	9.60	31.54	56.35	-24.81	QP
8	0.4793	11.03	9.60	20.63	46.35	-25.72	AVG
9	0.8249	24.45	9.60	34.05	56.00	-21.95	QP
10	0.8249	16.18	9.60	25.78	46.00	-20.22	AVG
11	1.4313	10.01	9.62	19.63	56.00	-36.37	QP
12	1.4313	3.81	9.62	13.43	46.00	-32.57	AVG

Note:

- 1. Result = Reading + Correct Factor.
- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
- 4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.



LINE L RESULTS WITH UNMODIFIED SAMPLE (ANTENNA PRESENT)



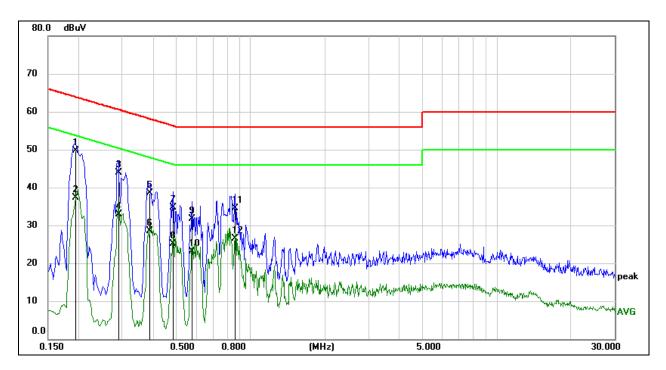
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1943	40.25	9.59	49.84	63.85	-14.01	QP
2	0.1943	28.01	9.59	37.60	53.85	-16.25	AVG
3	0.2884	34.48	9.59	44.07	60.57	-16.50	QP
4	0.2884	22.71	9.59	32.30	50.57	-18.27	AVG
5	0.3833	28.75	9.59	38.34	58.21	-19.87	QP
6	0.3833	17.81	9.59	27.40	48.21	-20.81	AVG
7	0.4823	24.50	9.60	34.10	56.30	-22.20	QP
8	0.4823	14.75	9.60	24.35	46.30	-21.95	AVG
9	0.8216	23.90	9.60	33.50	56.00	-22.50	QP
10	0.8216	15.79	9.60	25.39	46.00	-20.61	AVG
11	4.2000	7.69	9.70	17.39	56.00	-38.61	QP
12	4.2000	3.75	9.70	13.45	46.00	-32.55	AVG

Note:

- 1. Result = Reading + Correct Factor.
- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
- 4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.



LINE N RESULTS with modified sample (transmitter terminated into a dummy load)



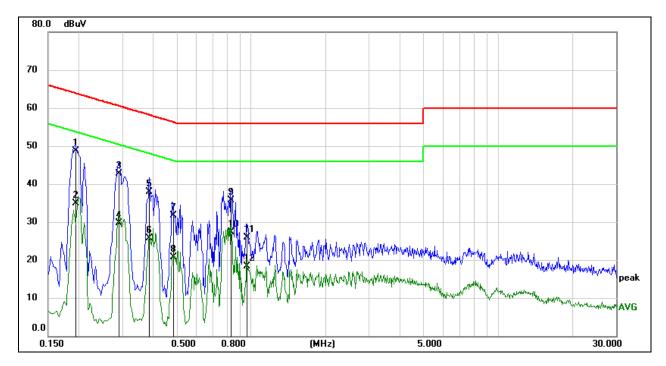
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1939	40.21	9.59	49.80	63.87	-14.07	QP
2	0.1939	27.77	9.59	37.36	53.87	-16.51	AVG
3	0.2902	34.38	9.59	43.97	60.52	-16.55	QP
4	0.2902	23.41	9.59	33.00	50.52	-17.52	AVG
5	0.3865	28.94	9.59	38.53	58.14	-19.61	QP
6	0.3865	18.84	9.59	28.43	48.14	-19.71	AVG
7	0.4834	25.17	9.60	34.77	56.28	-21.51	QP
8	0.4834	15.42	9.60	25.02	46.28	-21.26	AVG
9	0.5806	22.14	9.60	31.74	56.00	-24.26	QP
10	0.5806	13.57	9.60	23.17	46.00	-22.83	AVG
11	0.8621	24.87	9.60	34.47	56.00	-21.53	QP
12	0.8621	16.84	9.60	26.44	46.00	-19.56	AVG

Note: 1. Result = Reading +Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.



LINE L RESULTS with modified sample (transmitter terminated into a dummy load)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1944	39.05	9.58	48.63	63.85	-15.22	QP
2	0.1944	25.40	9.58	34.98	53.85	-18.87	AVG
3	0.2904	33.24	9.56	42.80	60.51	-17.71	QP
4	0.2904	20.05	9.56	29.61	50.51	-20.90	AVG
5	0.3865	28.34	9.53	37.87	58.14	-20.27	QP
6	0.3865	16.25	9.53	25.78	48.14	-22.36	AVG
7	0.4819	22.13	9.51	31.64	56.31	-24.67	QP
8	0.4819	11.21	9.51	20.72	46.31	-25.59	AVG
9	0.8302	26.28	9.50	35.78	56.00	-20.22	QP
10	0.8302	17.85	9.50	27.35	46.00	-18.65	AVG
11	0.9633	16.43	9.51	25.94	56.00	-30.06	QP
12	0.9633	8.76	9.51	18.27	46.00	-27.73	AVG

Note: 1. Result = Reading +Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.



REPORT NO.: 4790587088-RF-5 Page 32 of 32

9. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203

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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

	END OF REPORT
Complies	
RESULTS	