

FCC PART 15B, CLASS B
MEASUREMENT AND TEST REPORT

For

Grandstream Networks, Inc.

126 Brookline Ave, 3rd Floor Boston, MA 02215, USA

FCC ID: YZZGXV3275V3

Report Type: Original Report	Product Type: IP Multimedia Phone
Report Number: RSZ170927003-00A	
Report Date: 2017-11-20	
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Note: This test report is prepared for the customer shown above and for the equipment described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Grandstream Networks, Inc.*'s product, model number: *GXV3275 (FCC ID: YZZGXV3275V3)* in this report was an *IP Multimedia Phone*, which was measured approximately: 25.2 cm (L) × 21.1 cm (W) × 8.4 cm (H), rated with input voltage: DC 12V from adapter or DC 48 V powered by POE supply. The highest operation frequency is 2480MHz.

Adapter 1 Information:

Model: F18W8-120150SPAUY

Input: AC 100-240V, 50/60Hz, 0.6A

Output: DC 12V, 1.5 A

Adapter 2 Information:

Model: H18US1200150A

Input: AC 100-240V, 50/60Hz, 0.8A

Output: DC 12V, 1.5 A

**All measurement and test data in this report was gathered from production sample serial number: 1702164 (Assigned by BACL, shenzhen). The EUT supplied by the applicant was received on 2017-09-27.*

Objective

This test report is prepared on behalf of *Grandstream Networks, Inc.* in accordance with Part 2-Subpart J, Part 15-Subparts A and B of the Federal Communication Commissions rules.

The objective of the manufacturer is to determine the compliance of the EUT with FCC Part 15 B.

Related Submittal(s)/Grant(s)

FCC Part 15.247 DTS&DSS submissions with FCC ID: YZZGXV3275V3.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Parameter	uncertainty
Conducted Emissions	±1.95dB
All emissions, radiated	±4.88dB

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, China.

Bay Area Compliance Laboratories Corp. (Shenzhen) has been accredited to ISO/IEC 17025 by CNAS(Lab code: L2408). And accredited to ISO/IEC 17025 by NVLAP(Lab code: 200707-0), the FCC Designation No. CN5001 under the KDB 974614 D01.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Bay Area Compliance Laboratories Corp. (Shenzhen) was registered with ISED Canada under ISED Canada Registration Number 3062B.

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in normal condition.

Test Mode 1: Talking&HDMI&Playing&Connect PC(Ping with computer)

EUT Exercise Software

No exercise software was used.

Equipment Modifications

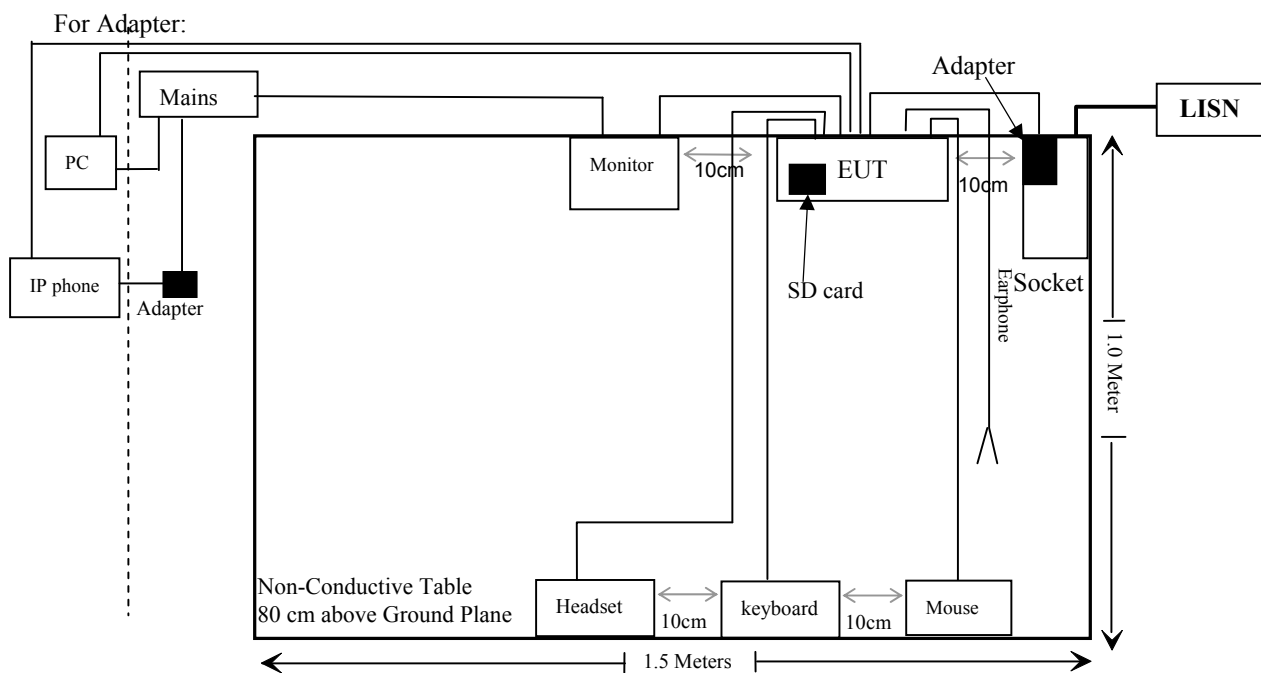
No modification was made to the EUT tested.

Support Equipment List and Details

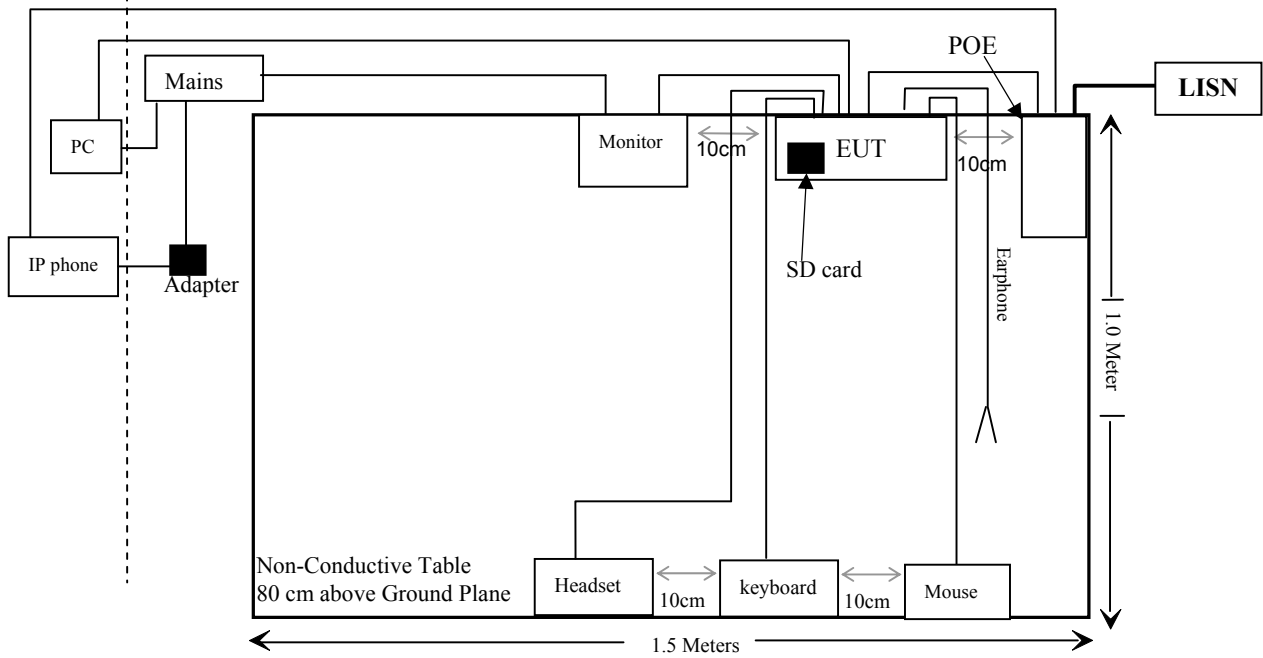
Manufacturer	Description	Model	Serial Number
Huawei	Earphone	N/A	N/A
Kingston	SD card	N/A	N/A
BULL	Socket	GN-415K	5503290068073
N/A	Mouse	N/A	N/A
Microsoft	Keyboard	1406	0200706128743
DCOMA	Headset	N/A	N/A
DELL	PC	DCSCSF	127BP2X
Grandstream	IP phone	GXV3275	N/A
SAMSUNG	Monitor	225MS	CR22HVZP401073M
N/A	POE	PSE801FM	N/A

External I/O Cable

Cable Description	Length (m)	From/Port	To
Unshielded detachable AC cable	1.0	POE	LISN
Unshielded detachable RJ45 cable	12.0	POE	IP phone
Unshielded detachable RJ45 cable	1.2	POE	EUT
Unshielded Un-detachable AC cable	1.0	Socket	LISN
Unshielded detachable RJ45 cable	12.0	ISN	IP phone
Unshielded detachable RJ45 cable	1.2	ISN	EUT
Unshielded Un-detachable DC Cable	2.5	EUT	Adapter
Shielded Un-detachable USB cable	1.4	EUT	Keyboard
Shielded Un-detachable USB cable	1.4	EUT	Mouse
Unshielded un-detachable earphone cable	0.9	EUT	Earphone
Unshielded detachable RJ45 cable	12.0	EUT	PC
Shielded detachable HDMI cable	1.0	EUT	Monitor
Unshielded Un-detachable Headset cable	1.4	EUT	Headset
Unshielded detachable AC cable	1.2	Monitor	Mains

Block Diagram of Test Setup

For POE:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	AC Line Conducted Emissions	Compliance
§15.109	Radiated Emissions	Compliance

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
AC Line Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2017-08-04	2018-08-04
Rohde & Schwarz	LISN	ENV216	3560.6650.12-101613-Yb	2016-12-07	2017-12-07
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2017-05-21	2017-11-19
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR
N/A	Conducted Emission Cable	N/A	UF A210B-1-0720-504504	2017-05-12	2017-11-12
Radiated Emission Test					
Sunol Sciences	Horn Antenna	DRH-118	A052604	2014-12-29	2017-12-28
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2017-04-24	2018-04-24
Sunol Sciences	Bi-log Antenna	JB1	A040904-2	2014-12-17	2017-12-16
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2017-05-21	2018-05-21
HP	Amplifier	HP8447E	1937A01046	2017-05-21	2017-11-19
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2016-12-07	2017-12-07
Ducommun technologies	RF Cable	UFA210A-1-4724-30050U	MFR64369 223410-001	2017-05-21	2017-11-19
Ducommun technologies	RF Cable	104PEA	218124002	2017-05-21	2017-11-19
Ducommun technologies	RF Cable	RG-214	1	2017-05-21	2017-11-19
Ducommun technologies	RF Cable	RG-214	2	2017-05-22	2017-11-22

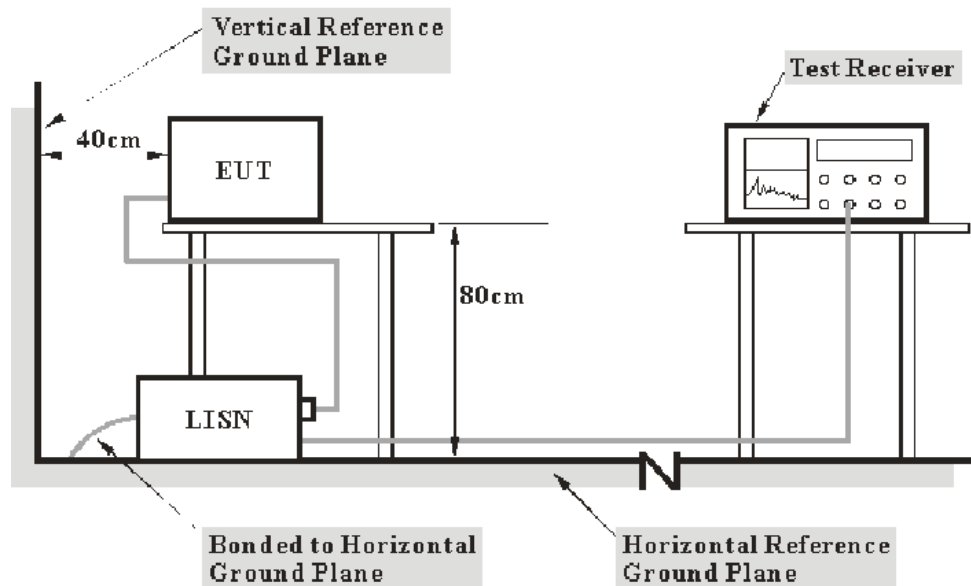
*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.107 – AC LINE CONDUCTED EMISSIONS

Applicable Standard

According to FCC§15.107

EUT Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with ANSI C63.4-2014. The related limit was specified in FCC Part 15.107 Class B.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Correction Factor} = \text{LISN VDF} + \text{Cable Loss} + \text{Transient Limiter Attenuation}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the recorded data in following table,

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_m + U_{(Lm)} \leq L_{lim} + U_{cispr}$$

In BACL, $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

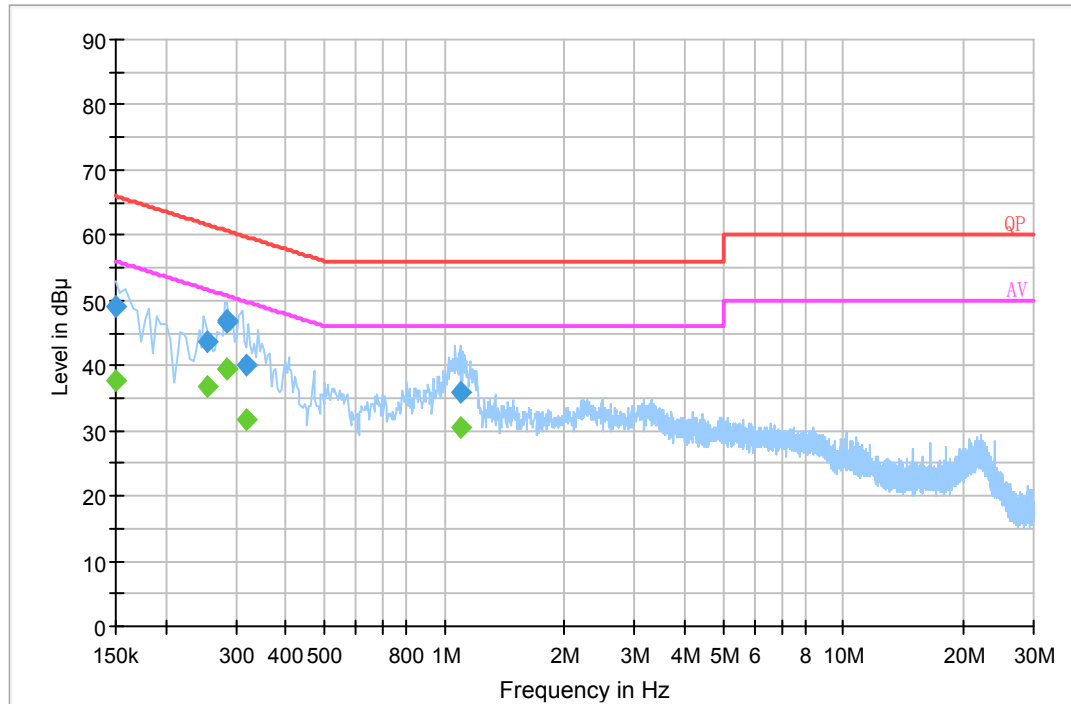
Test Data

Environmental Conditions

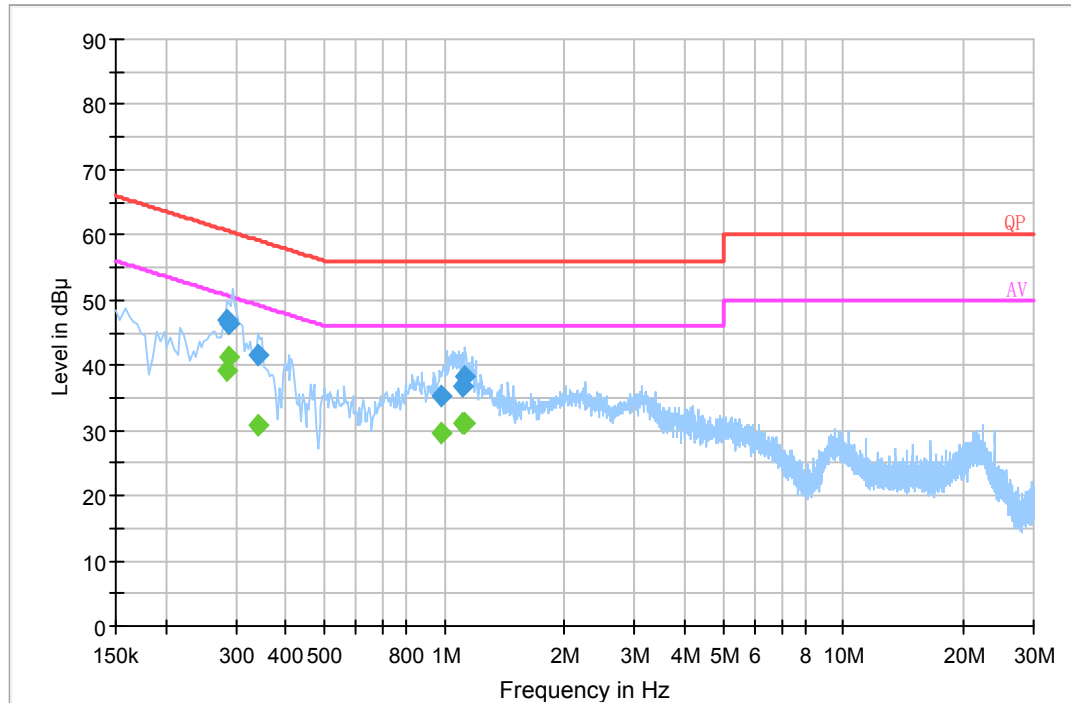
Temperature:	26 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Simon Wang on 2017-10-09.

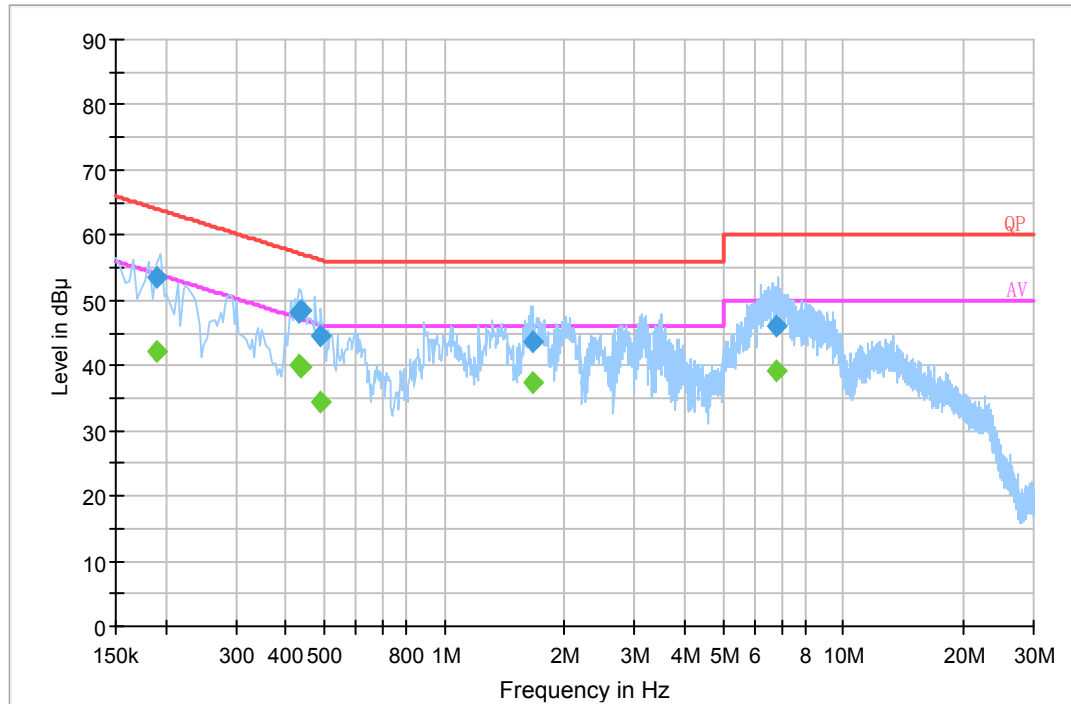
Test mode 1:

Powered by Adapter 1**AC 120V/60 Hz, Line**

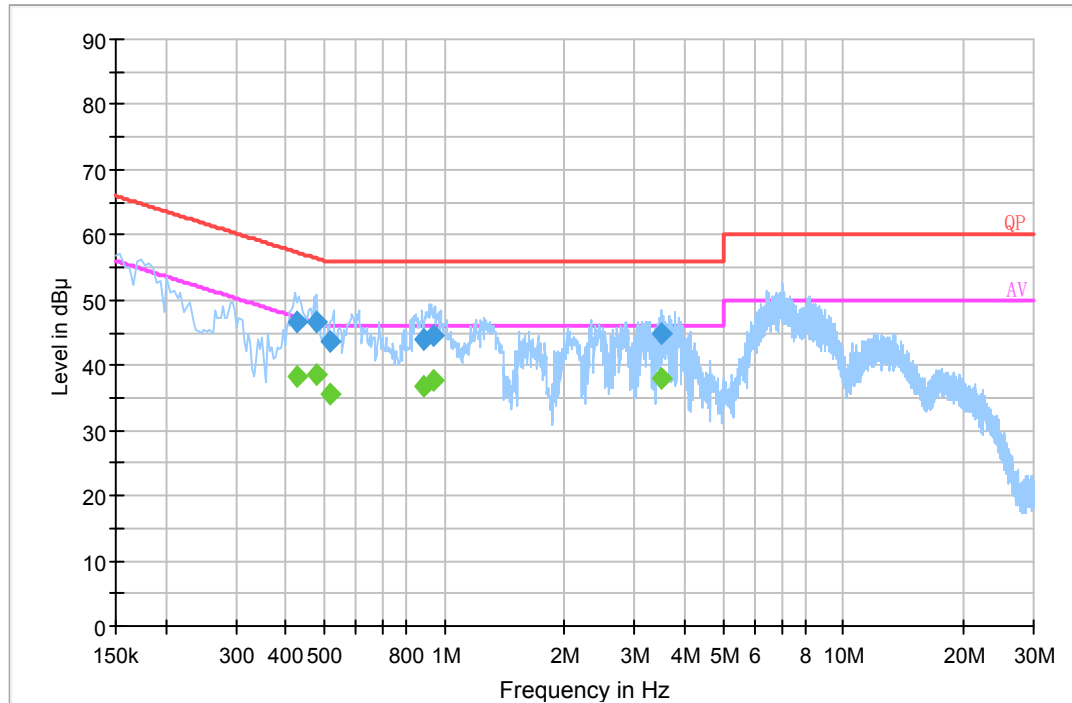
Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.150000	49.0	20.2	66.0	17.0	QP
0.254500	43.7	20.2	61.6	17.9	QP
0.285000	46.9	20.2	60.7	13.8	QP
0.285500	46.8	20.2	60.7	13.9	QP
0.317170	40.1	20.2	59.8	19.7	QP
1.093590	36.0	20.1	56.0	20.0	QP
0.150000	37.7	20.2	56.0	18.3	Ave.
0.254500	36.9	20.2	51.6	14.7	Ave.
0.285000	39.5	20.2	50.7	11.2	Ave.
0.285500	39.5	20.2	50.7	11.2	Ave.
0.317170	31.7	20.2	49.8	18.1	Ave.
1.093590	30.5	20.1	46.0	15.5	Ave.

AC 120V/60 Hz, Neutral

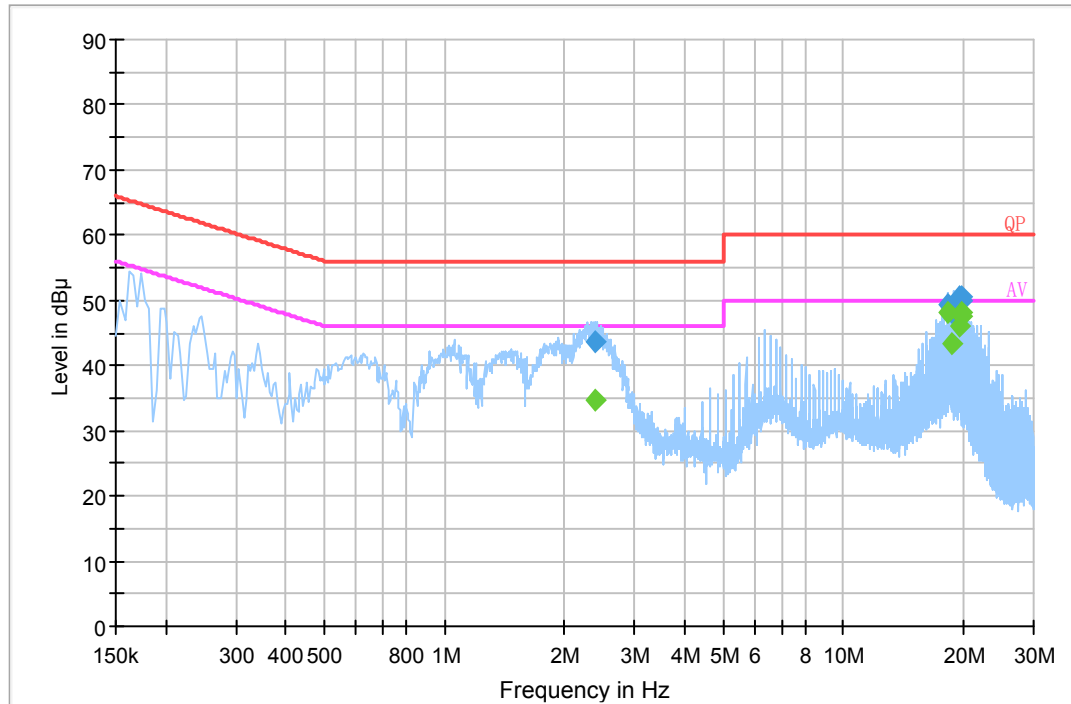
Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.285500	46.9	20.2	60.7	13.8	QP
0.289500	46.4	20.2	60.5	14.1	QP
0.340870	41.5	20.2	59.2	17.7	QP
0.983030	35.2	20.1	56.0	20.8	QP
1.117110	36.8	20.1	56.0	19.2	QP
1.121170	38.4	20.1	56.0	17.6	QP
0.285500	39.2	20.2	50.7	11.5	Ave.
0.289500	41.2	20.2	50.5	9.3	Ave.
0.340870	30.8	20.2	49.2	18.4	Ave.
0.983030	29.7	20.1	46.0	16.3	Ave.
1.117110	31.0	20.1	46.0	15.0	Ave.
1.121170	31.2	20.1	46.0	14.8	Ave.

Powered by Adapter 2**AC 120V/60 Hz, Line**

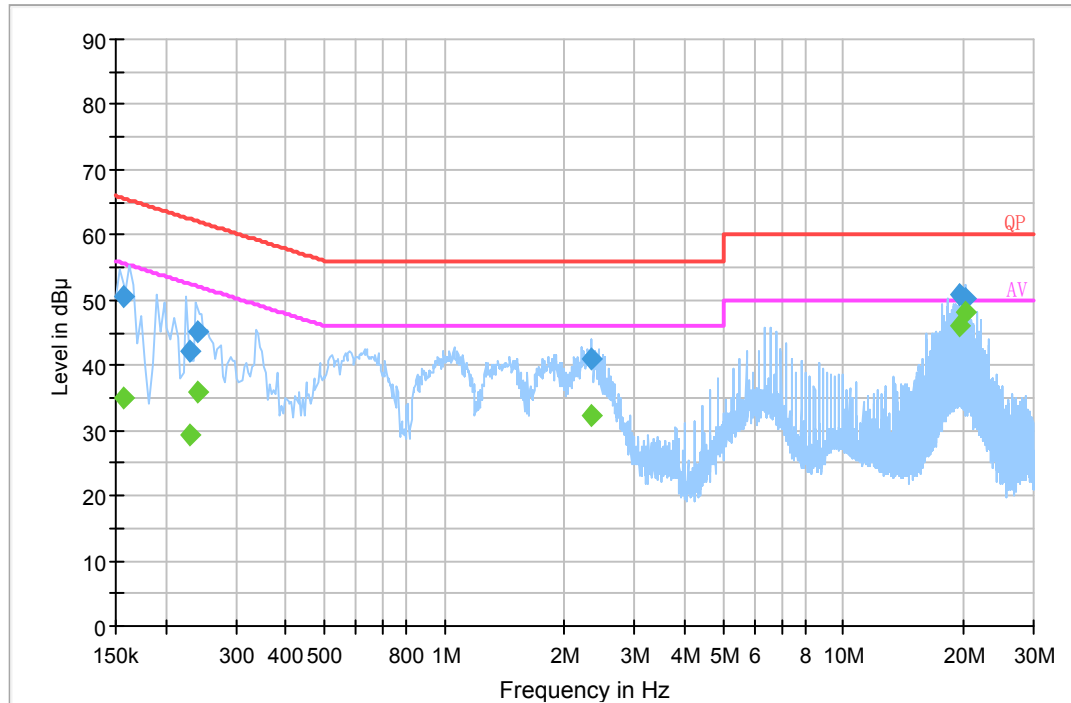
Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.189500	53.5	20.2	64.1	10.6	QP
0.431490	48.3	20.2	57.2	8.9	QP
0.435550	48.4	20.2	57.1	8.7	QP
0.486650	44.5	20.2	56.2	11.7	QP
1.673250	43.7	20.1	56.0	12.3	QP
6.826410	46.0	20.0	60.0	14.0	QP
0.189500	42.1	20.2	54.1	12.0	Ave.
0.431490	40.0	20.2	47.2	7.2	Ave.
0.435550	39.9	20.2	47.1	7.2	Ave.
0.486650	34.3	20.2	46.2	11.9	Ave.
1.673250	37.2	20.1	46.0	8.8	Ave.
6.826410	39.1	20.0	50.0	10.9	Ave.

AC 120V/60 Hz, Neutral

Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.427670	46.7	20.2	57.3	10.6	QP
0.478830	46.7	20.2	56.4	9.7	QP
0.518110	43.6	20.2	56.0	12.4	QP
0.888770	43.9	20.1	56.0	12.1	QP
0.939890	44.6	20.1	56.0	11.4	QP
3.505710	45.0	20.1	56.0	11.0	QP
0.427670	38.4	20.2	47.3	8.9	Ave.
0.478830	38.5	20.2	46.4	7.9	Ave.
0.518110	35.7	20.2	46.0	10.3	Ave.
0.888770	36.7	20.1	46.0	9.3	Ave.
0.939890	37.7	20.1	46.0	8.3	Ave.
3.505710	38.0	20.1	46.0	8.0	Ave.

Powered by PoE**AC 120V/60 Hz, Line**

Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
2.390450	43.6	20.1	56.0	12.4	QP
18.244370	49.3	20.2	60.0	10.7	QP
18.615610	48.1	20.2	60.0	11.9	QP
19.462350	50.6	20.2	60.0	9.4	QP
19.707650	50.6	20.2	60.0	9.4	QP
19.710070	50.0	20.2	60.0	10.0	QP
2.390450	34.6	20.1	46.0	11.4	Ave.
18.244370	48.1	20.2	50.0	1.9	Ave.
18.615610	43.2	20.2	50.0	6.8	Ave.
19.462350	46.0	20.2	50.0	4.0	Ave.
19.707650	48.2	20.2	50.0	1.8	Ave.
19.710070	47.5	20.2	50.0	2.5	Ave.

AC 120V/60 Hz, Neutral

Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.157500	50.4	20.2	65.6	15.2	QP
0.229500	42.3	20.2	62.5	20.2	QP
0.241500	45.3	20.2	62.0	16.7	QP
2.322930	40.9	20.1	56.0	15.1	QP
19.462070	50.8	20.2	60.0	9.2	QP
20.258130	50.2	20.2	60.0	9.8	QP
0.157500	35.1	20.2	55.6	20.5	Ave.
0.229500	29.2	20.2	52.5	23.3	Ave.
0.241500	35.9	20.2	52.0	16.1	Ave.
2.322930	32.4	20.1	46.0	13.6	Ave.
19.462070	46.2	20.2	50.0	3.8	Ave.
20.258130	48.1	20.2	50.0	1.9	Ave.

Note:

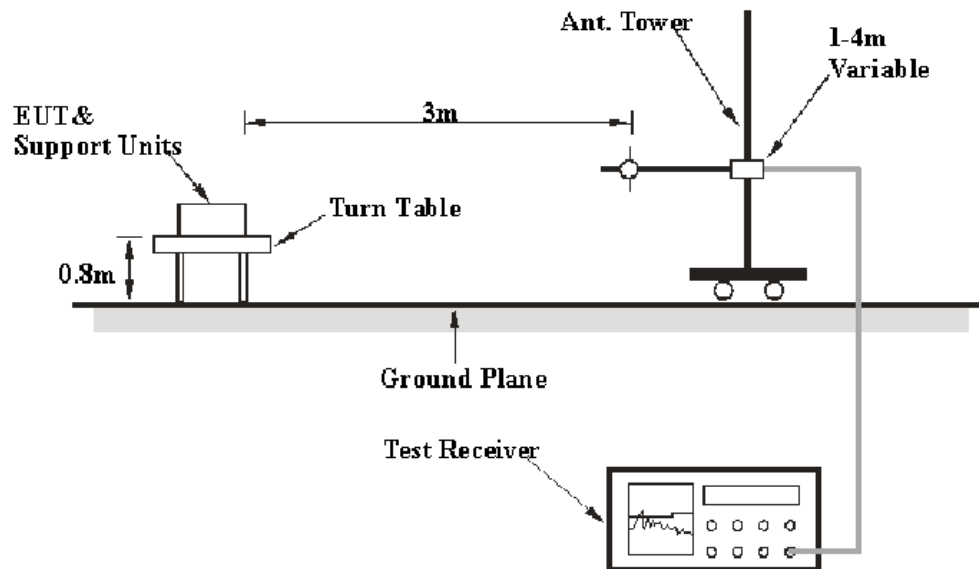
- 1) Corrected Amplitude = Reading + Correction Factor
- 2) Correction Factor = LISN VDF + Cable Loss + Transient Limiter Attenuation
- 3) Margin = Limit – Corrected Amplitude

FCC §15.109 - RADIATED EMISSIONS

Applicable Standard

According to FCC§15.109

Test System Setup



The radiated emission tests were performed in the 3 meters chamber test site.

EMI Test Receiver Setup

According to FCC 15.33 requirements, the EUT system was measured from 30 MHz to 12.4 GHz.

During the radiated emission test, the EMI test receiver Setup was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	-	Peak
Above 1 GHz	1 MHz	10 Hz	-	Peak

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All final data was recorded in the Quasi-peak detection mode for below 1 GHz, and Peak and Average for above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the recorded data in following table

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_m + U_{(Lm)} \leq L_{lim} + U_{cispr}$$

In BACL., $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

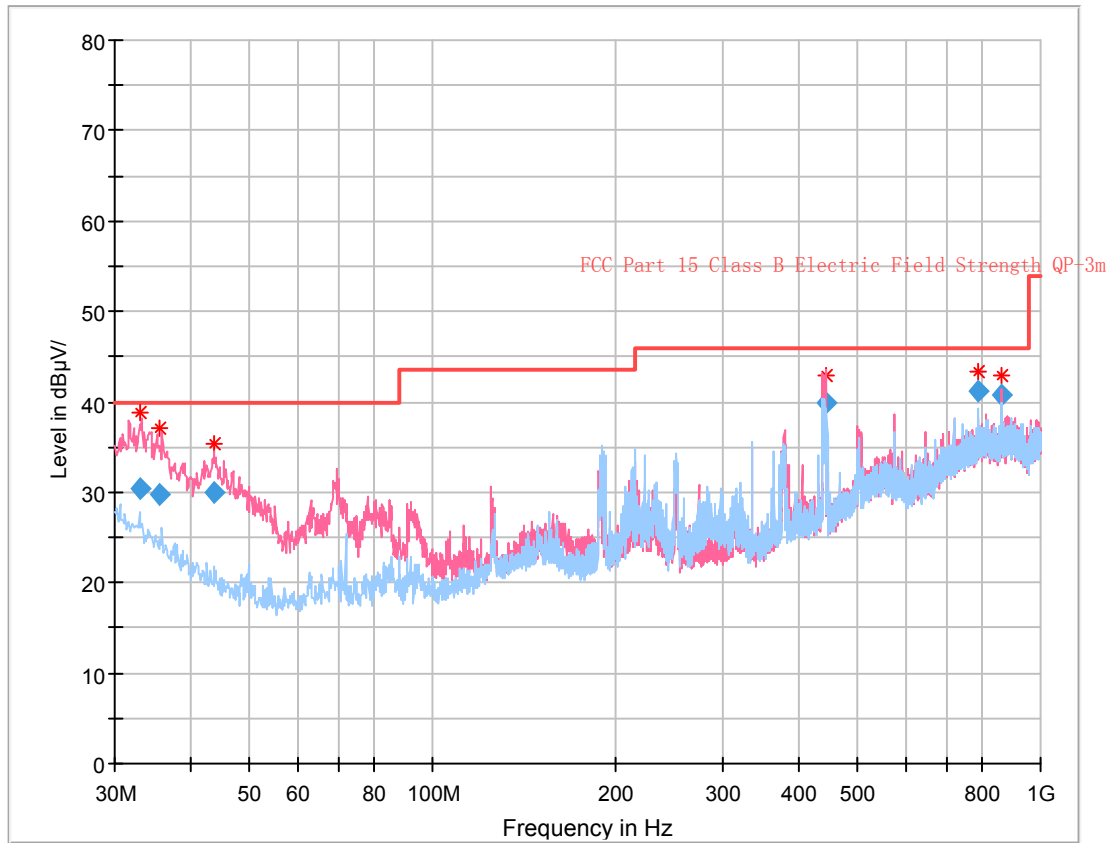
Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	54 %
ATM Pressure:	101.0 kPa

The testing was performed by Simon Wang on 2017-10-07.

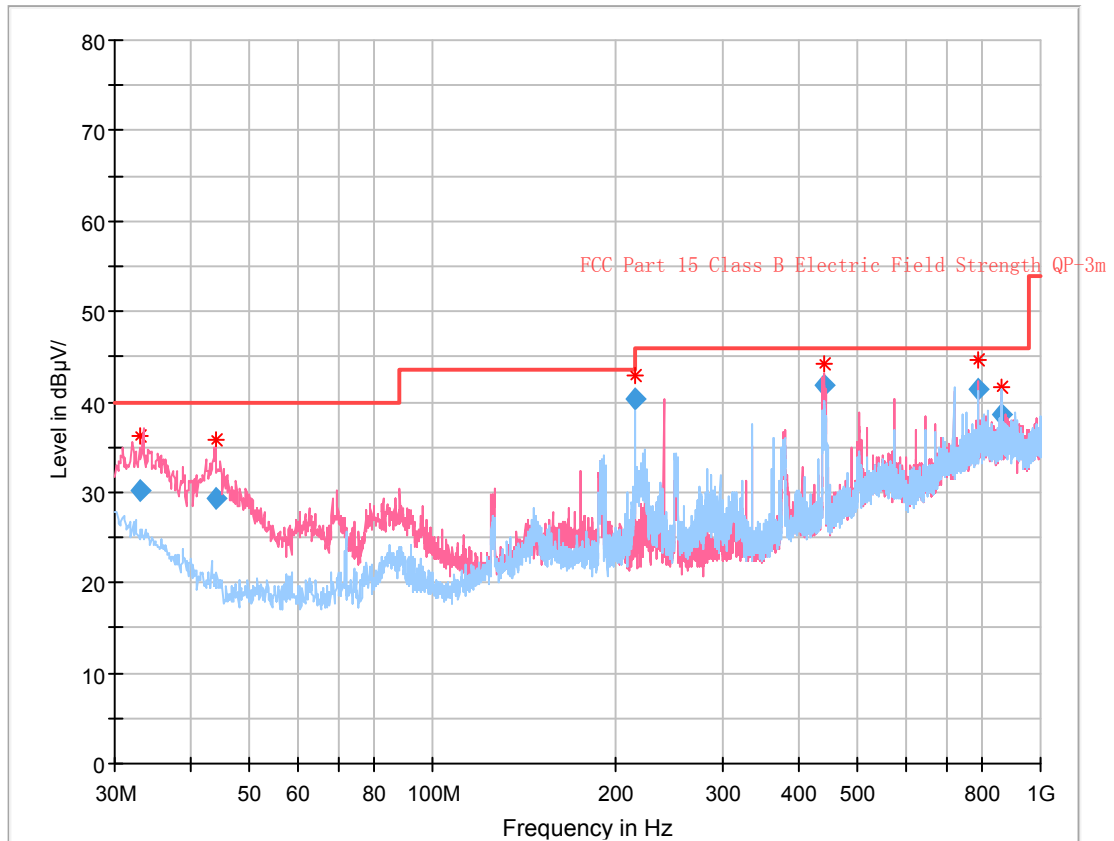
Test mode 1:

Powered by Adapter 1**30 MHz – 1 GHz:**

Frequency (MHz)	Corrected Amplitude (dBμV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
33.006625	30.46	108.0	V	200.0	-1.7	40.00	9.54
35.571375	29.65	107.0	V	323.0	-3.3	40.00	10.35
43.781250	30.02	106.0	V	129.0	-9.0	40.00	9.98
442.925375	39.97	117.0	V	357.0	0.2	46.00	6.03
791.994500	41.14	107.0	H	349.0	8.8	46.00	4.86
863.992750	40.78	107.0	V	221.0	9.2	46.00	5.22

1GHz – 12.4GHz:

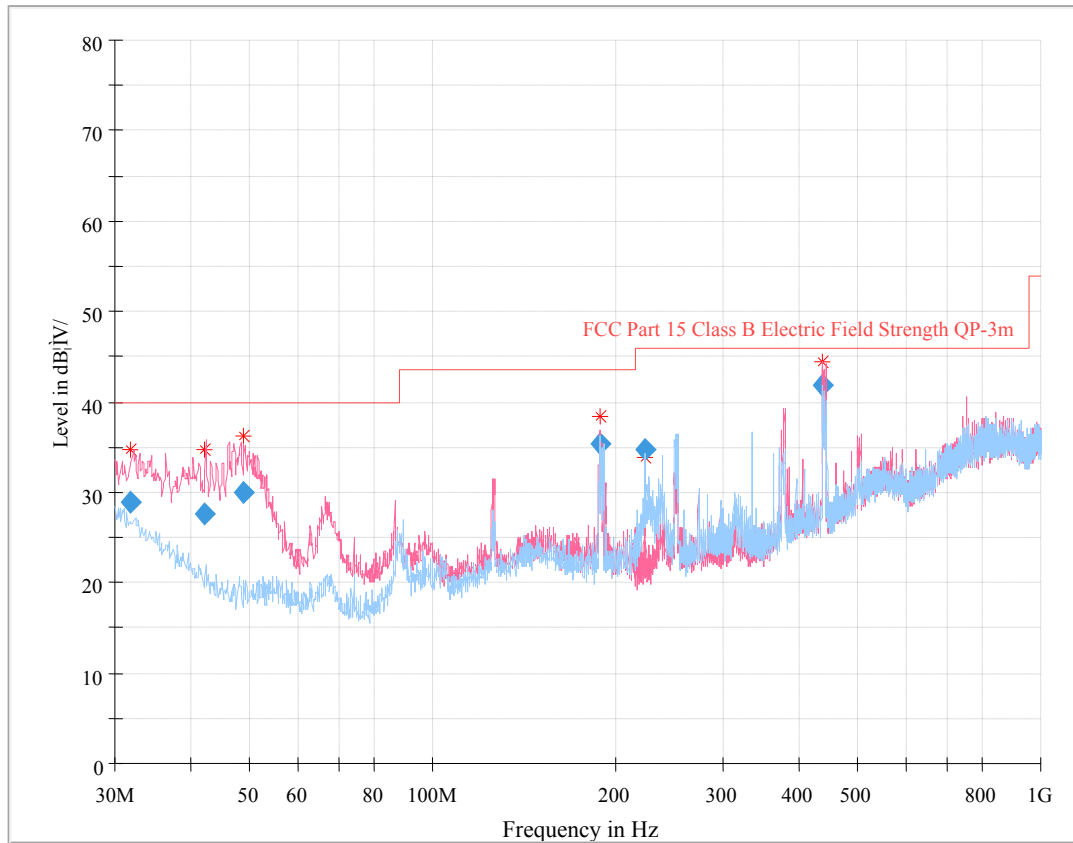
Frequency (MHz)	Measurement		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part 15B	
	Reading (dB μ V)	(PK/QP/Ave.)		Height (m)	Polar (H / V)			Limit (dB μ V/m)	Margin (dB)
1299.85	56.42	PK	154	2.2	H	-8.04	48.38	74	25.62
1299.85	54.13	Ave.	154	2.2	H	-8.04	46.09	54	7.91
1298.64	53.48	PK	273	1.4	V	-8.04	45.44	74	28.56
1298.64	50.18	Ave.	273	1.4	V	-8.04	42.14	54	11.86
1188.09	50.84	PK	51	1.1	H	-8.48	42.36	74	31.64
1188.09	32.84	Ave.	51	1.1	H	-8.48	24.36	54	29.64
1187.51	54.96	PK	323	1.2	V	-8.48	46.48	74	27.52
1187.51	34.75	Ave.	323	1.2	V	-8.48	26.27	54	27.73

Powered by Adapter 2**30 MHz – 1 GHz:**

Frequency (MHz)	Corrected Amplitude (dBμV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
32.968875	30.09	100.0	V	68.0	-1.7	40.00	9.91
44.003625	29.37	132.0	V	26.0	-9.1	40.00	10.63
215.983625	40.28	164.0	H	34.0	-6.5	43.50	3.22
440.264750	41.88	115.0	V	354.0	0.2	46.00	4.12
792.008750	41.42	105.0	V	167.0	8.8	46.00	4.58
864.040375	38.60	203.0	H	176.0	9.2	46.00	7.40

1GHz – 12.4GHz:

Frequency (MHz)	Measurement		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part 15B	
	Reading (dBμV)	(PK/QP/Ave.)		Height (m)	Polar (H / V)			Limit (dBμV/m)	Margin (dB)
1299.34	56.73	PK	55	1.0	H	-8.04	48.69	74	25.31
1299.34	54.26	Ave.	55	1.0	H	-8.04	46.22	54	7.78
1298.97	54.09	PK	187	1.5	V	-8.04	46.05	74	27.95
1298.97	50.78	Ave.	187	1.5	V	-8.04	42.74	54	11.26
1188.85	52.81	PK	244	1.2	H	-8.48	44.33	74	29.67
1188.85	32.76	Ave.	244	1.2	H	-8.48	24.28	54	29.72
1187.97	53.82	PK	88	1.9	V	-8.48	45.34	74	28.66
1187.97	33.67	Ave.	88	1.9	V	-8.48	25.19	54	28.81

Powered by POE**30 MHz – 1 GHz:**

Frequency (MHz)	Corrected Amplitude (dBμV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
31.899625	28.87	104.0	V	118.0	-1.0	40.00	11.13
42.120375	27.57	104.0	V	304.0	-7.7	40.00	12.43
48.749750	30.00	100.0	V	20.0	-10.7	40.00	10.00
188.852875	35.39	102.0	V	179.0	-5.6	43.50	8.11
222.774750	34.79	113.0	H	190.0	-6.6	46.00	11.21
438.712500	41.79	102.0	V	138.0	0.2	46.00	4.21

1GHz – 12.4GHz:

Frequency (MHz)	Measurement		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part 15B	
	Reading (dBμV)	(PK/QP/Ave.)		Height (m)	Polar (H / V)			Limit (dBμV/m)	Margin (dB)
1125.25	54.23	PK	246	1.3	H	-8.61	45.62	74	28.38
1125.25	32.52	Ave.	246	1.3	H	-8.61	23.91	54	30.09
1131.87	55.43	PK	1	1.6	V	-8.61	46.82	74	27.18
1131.87	34.51	Ave.	1	1.6	V	-8.61	25.90	54	28.10

Note:

- 1) Correction Factor=Antenna factor (RX) + cable loss – amplifier factor
- 2) Corrected Amplitude = Correction Factor + Reading
- 3) Margin = Limit - Corrected Amplitude

******* END OF REPORT *******