



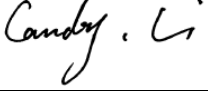
FCC PART 15B, CLASS B
MEASUREMENT AND TEST REPORT

For

Grandstream Networks, Inc.

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

FCC ID: YZZGXV3240V3

Report Type: Original Report	Product Type: IP Multimedia Phone
Report Number: RSZ170927001-00A	
Report Date: 2017-11-20	
Reviewed By: RF Engineer	Candy Li 
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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: *GXV3240 (FCC ID: YZZGXV3240V3)* in this report was an *IP Multimedia Phone*, which was measured approximately: 20.62 cm (L) × 19.65 cm (W) × 8.52 cm (H), rated with input voltage: DC 12V from adapter or DC 48V 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: 1702161 (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: YZZGXV3240V3.

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
Radiated Emissions	Below 1GHz	±4.75dB
	Above 1GHz	±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 (FCC §15.27)**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

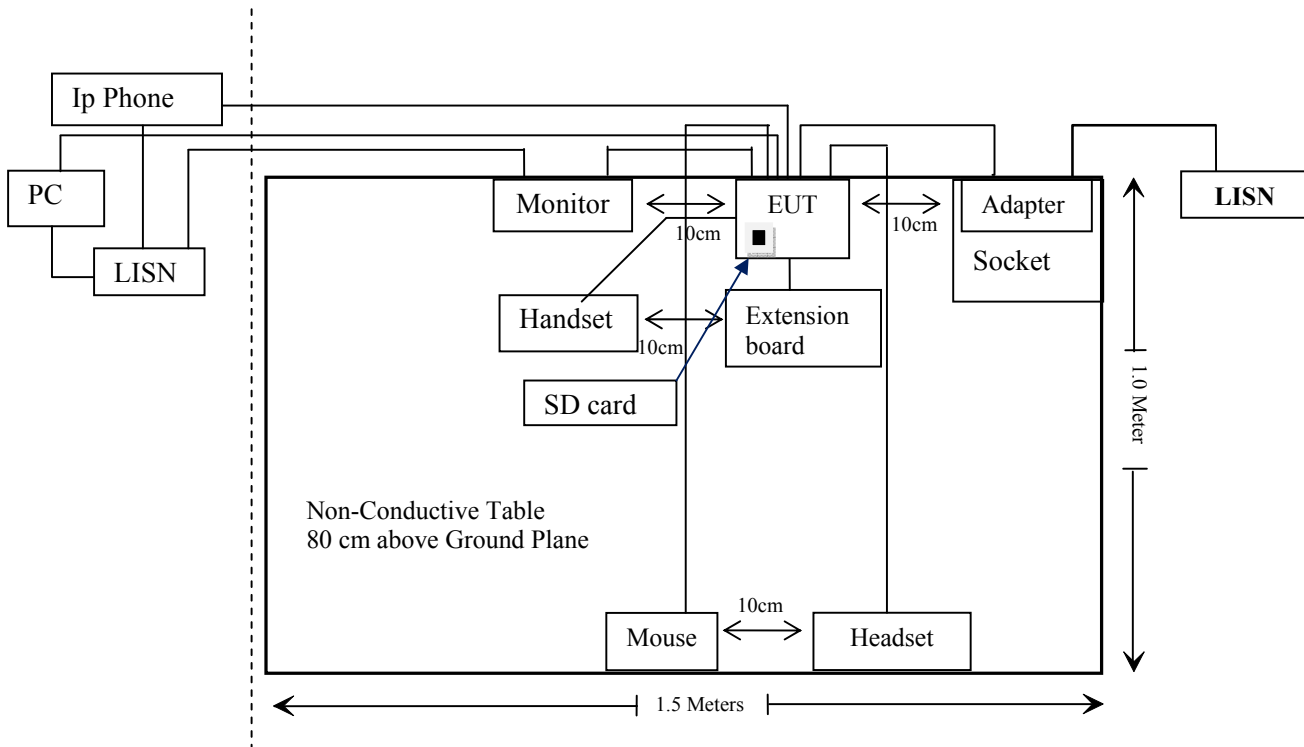
Manufacturer	Description	Model	Serial Number
BULL	Socket	GN-415K	5503290068073
DELL	PC	DCSCSF	127BP2X
N/A	Mouse	N/A	N/A
N/A	POE	PSE801FM	N/A
Grandstream	Extension board	GXP2200EXT	N/A
DCOMA	Headset	N/A	N/A
SAMSUNG	Monitor	225MS	CR22HVZP401073M
Kingston	SD card	N/A	N/A

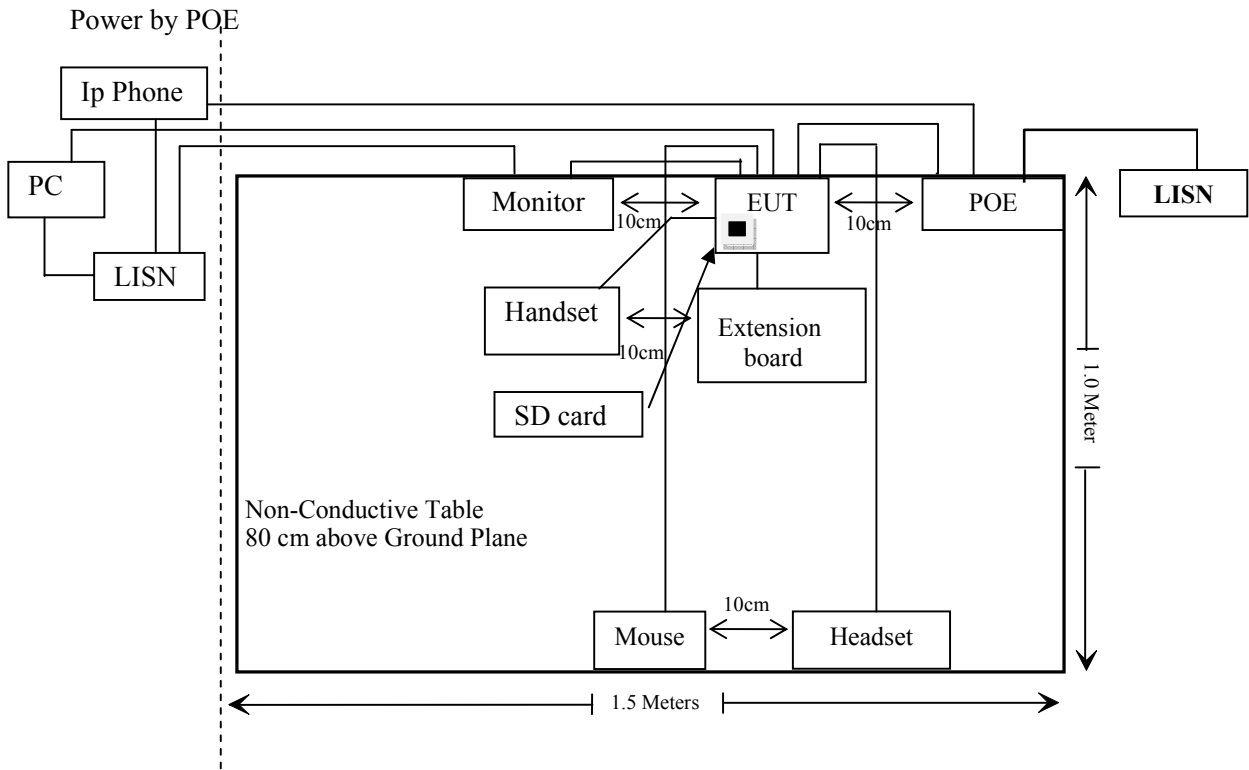
External I/O Cable

Cable Description	Length (m)	From/Port	To
Un-shielded detachable AC cable	1.0	POE	LISN
Un-shielded detachable RJ45 cable	1.2	POE	EUT
Un-shielded Un-detachable AC cable	1.0	Socket	LISN
Un-shielded Un-detachable DC Cable	2.5	EUT	Adapter
Shielded Un-detachable USB cable	1.4	EUT	Mouse
Un-shielded Un-detachable extension board RJ11 cable	0.2	EUT	Extension board
Un-shielded detachable RJ45 cable	12.0	EUT	PC
Shielded detachable HDMI cable	0.75	EUT	Monitor
Un-shielded Un-detachable Headset cable	1.4	EUT	Headset
Un-shielded detachable AC cable	1.2	Monitor	Mains

Block Diagram of Test Setup

Power by adapter





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

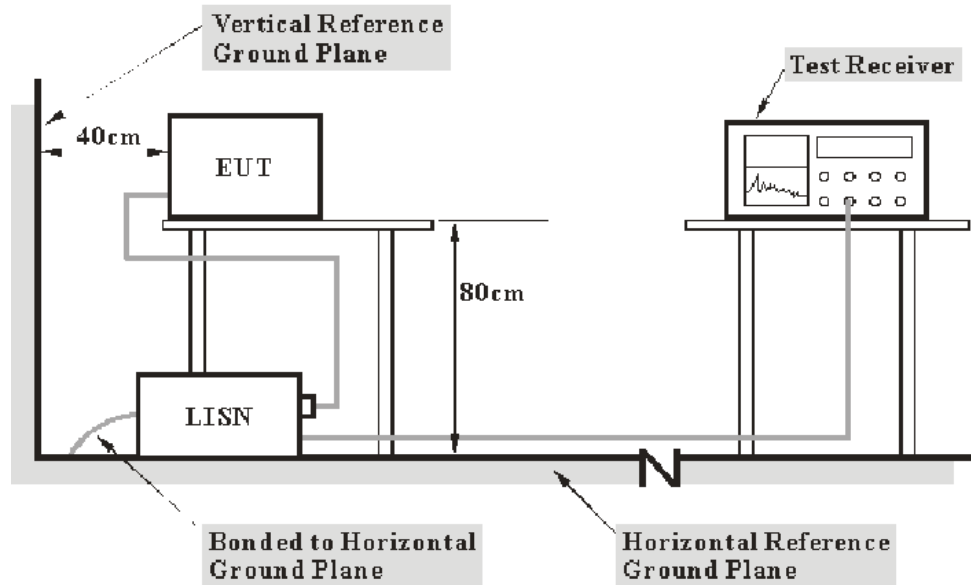
* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

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

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

In BACL, $U_{(L_m)}$ 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

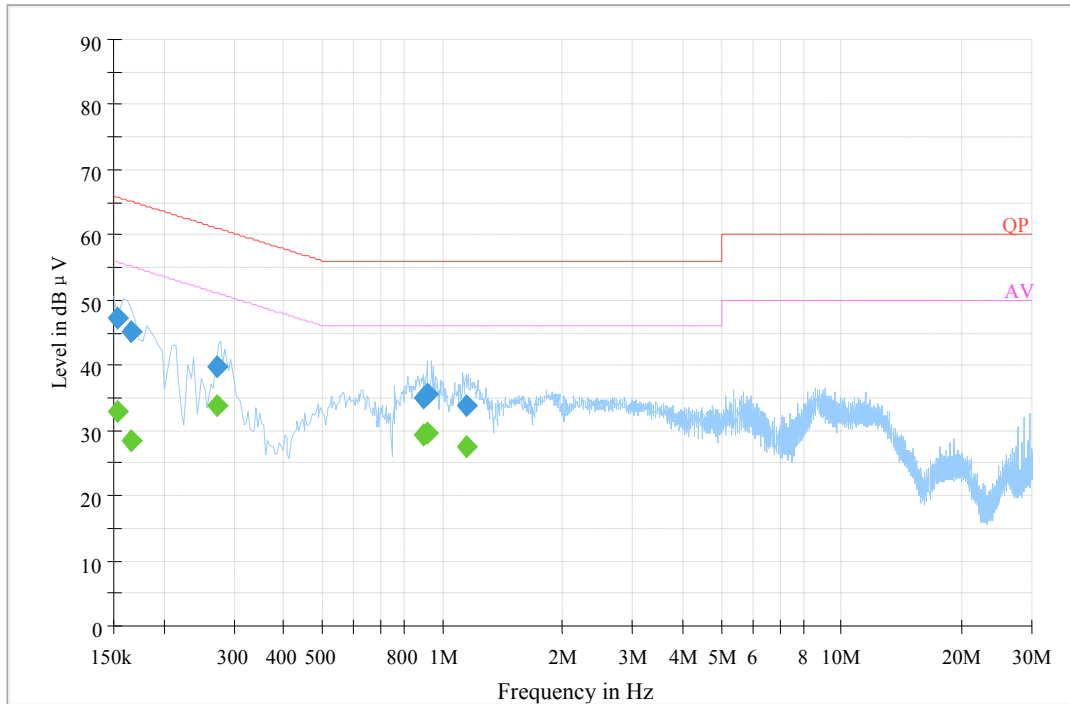
Temperature:	26 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Dylan Li on 2017-10-09.

Tested mode 1:

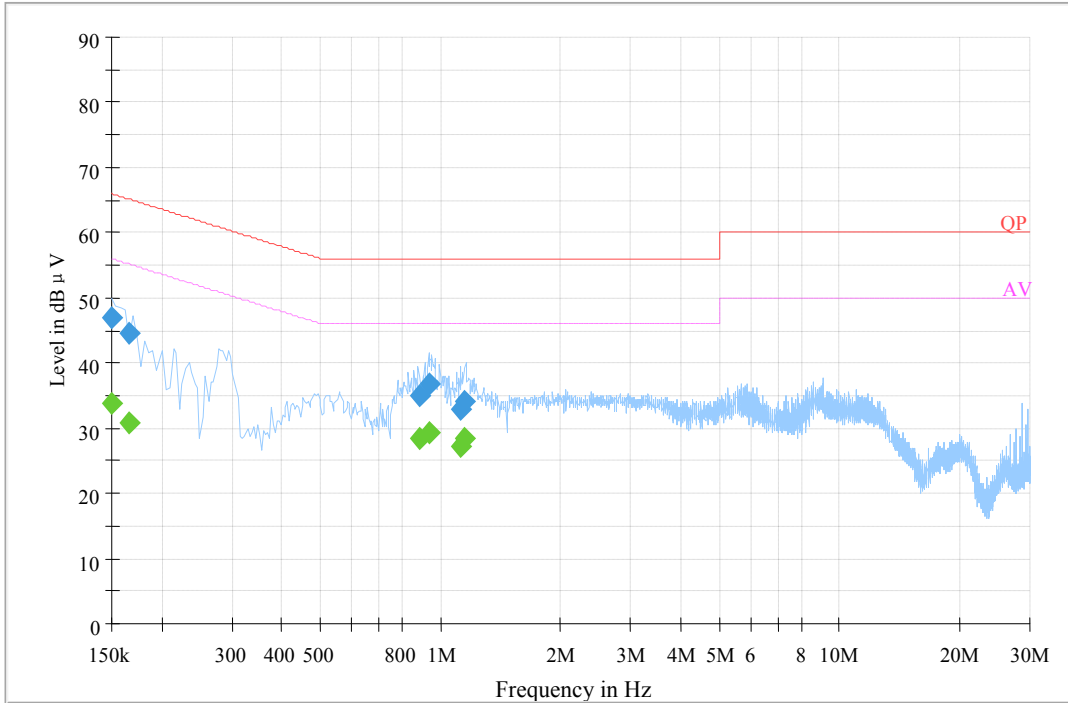
Powered by Adapter 1

AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.153500	47.2	20.2	65.8	18.6	QP
0.165500	45.2	20.2	65.2	20.0	QP
0.273500	39.9	20.2	61.0	21.1	QP
0.892590	34.9	20.1	56.0	21.1	QP
0.920230	35.7	20.1	56.0	20.3	QP
1.142890	33.9	20.1	56.0	22.1	QP
0.153500	32.9	20.2	55.8	22.9	Ave.
0.165500	28.3	20.2	55.2	26.9	Ave.
0.273500	33.7	20.2	51.0	17.3	Ave.
0.892590	29.4	20.1	46.0	16.6	Ave.
0.920230	29.6	20.1	46.0	16.4	Ave.
1.142890	27.5	20.1	46.0	18.5	Ave.

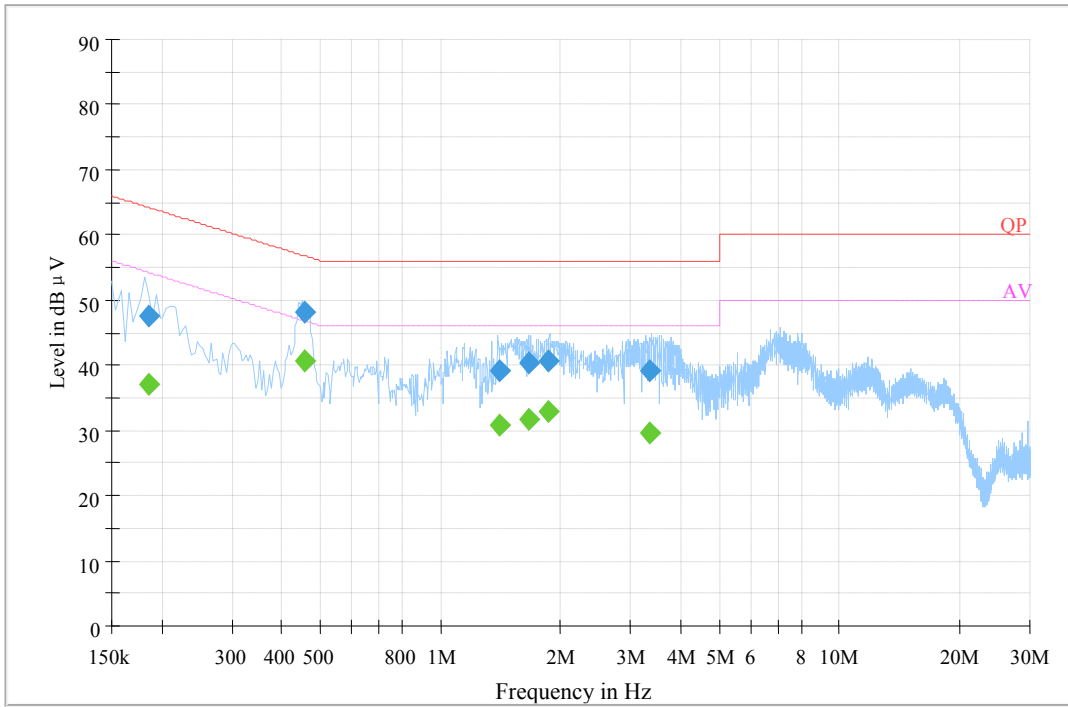
AC 120V/60 Hz, Neutral



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.150000	46.9	20.2	66.0	19.1	QP
0.165500	44.6	20.2	65.2	20.6	QP
0.884770	34.9	20.1	56.0	21.1	QP
0.939990	36.7	20.1	56.0	19.3	QP
1.129170	33.0	20.1	56.0	23.0	QP
1.152630	34.2	20.1	56.0	21.8	QP
0.150000	33.9	20.2	56.0	22.1	Ave.
0.165500	30.8	20.2	55.2	24.4	Ave.
0.884770	28.4	20.1	46.0	17.6	Ave.
0.939990	29.4	20.1	46.0	16.6	Ave.
1.129170	27.2	20.1	46.0	18.8	Ave.
1.152630	28.3	20.1	46.0	17.7	Ave.

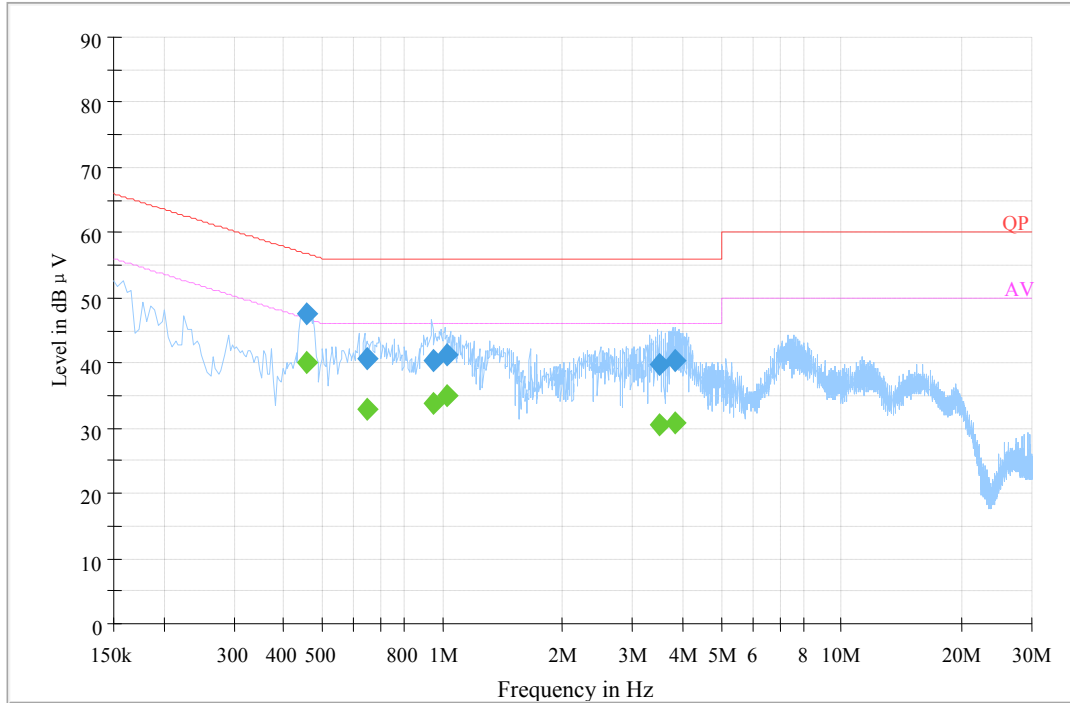
Powered by Adapter 2

AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.185500	47.4	20.2	64.2	16.8	QP
0.456750	48.2	20.2	56.8	8.6	QP
1.409030	39.3	20.1	56.0	16.7	QP
1.660950	40.3	20.1	56.0	15.7	QP
1.857830	40.7	20.1	56.0	15.3	QP
3.359390	39.3	20.1	56.0	16.7	QP
0.185500	37.0	20.2	54.2	17.2	Ave.
0.456750	40.7	20.2	46.8	6.1	Ave.
1.409030	30.9	20.1	46.0	15.1	Ave.
1.660950	31.7	20.1	46.0	14.3	Ave.
1.857830	33.0	20.1	46.0	13.0	Ave.
3.359390	29.5	20.1	46.0	16.5	Ave.

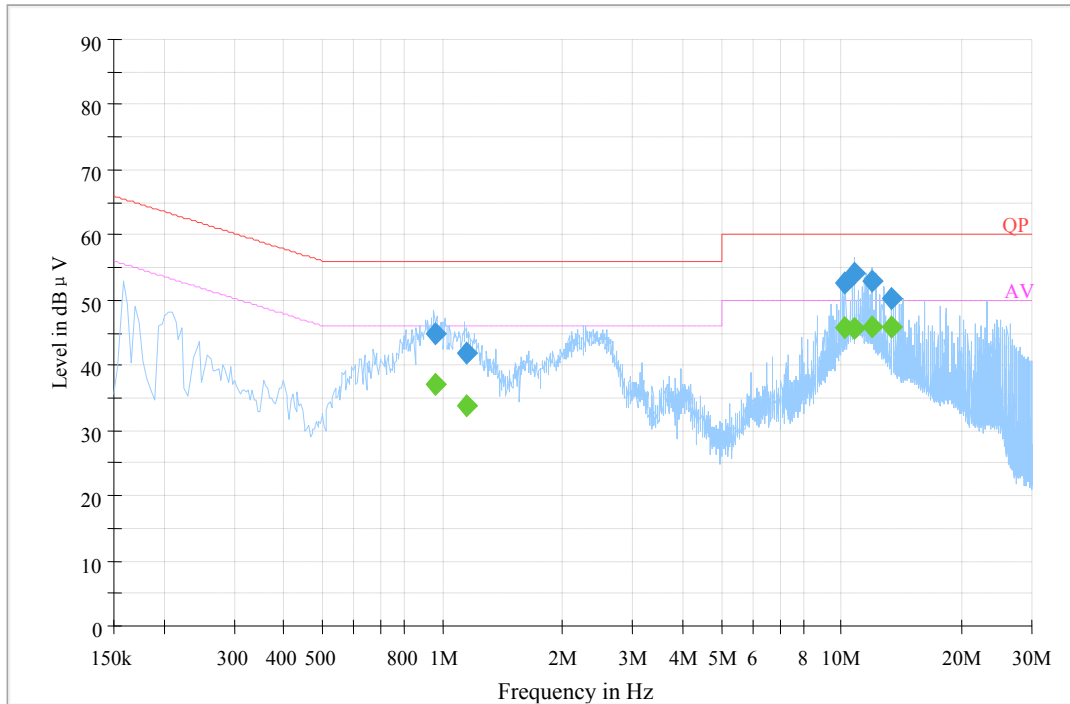
AC 120V/60 Hz, Neutral



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.455070	47.7	20.2	56.8	9.1	QP
0.644430	40.5	20.1	56.0	15.5	QP
0.951870	40.4	20.1	56.0	15.6	QP
1.022790	41.3	20.1	56.0	14.7	QP
3.497950	39.8	20.1	56.0	16.2	QP
3.824430	40.5	20.1	56.0	15.5	QP
0.455070	40.1	20.2	46.8	6.7	Ave.
0.644430	32.9	20.1	46.0	13.1	Ave.
0.951870	33.9	20.1	46.0	12.1	Ave.
1.022790	35.0	20.1	46.0	11.0	Ave.
3.497950	30.4	20.1	46.0	15.6	Ave.
3.824430	30.8	20.1	46.0	15.2	Ave.

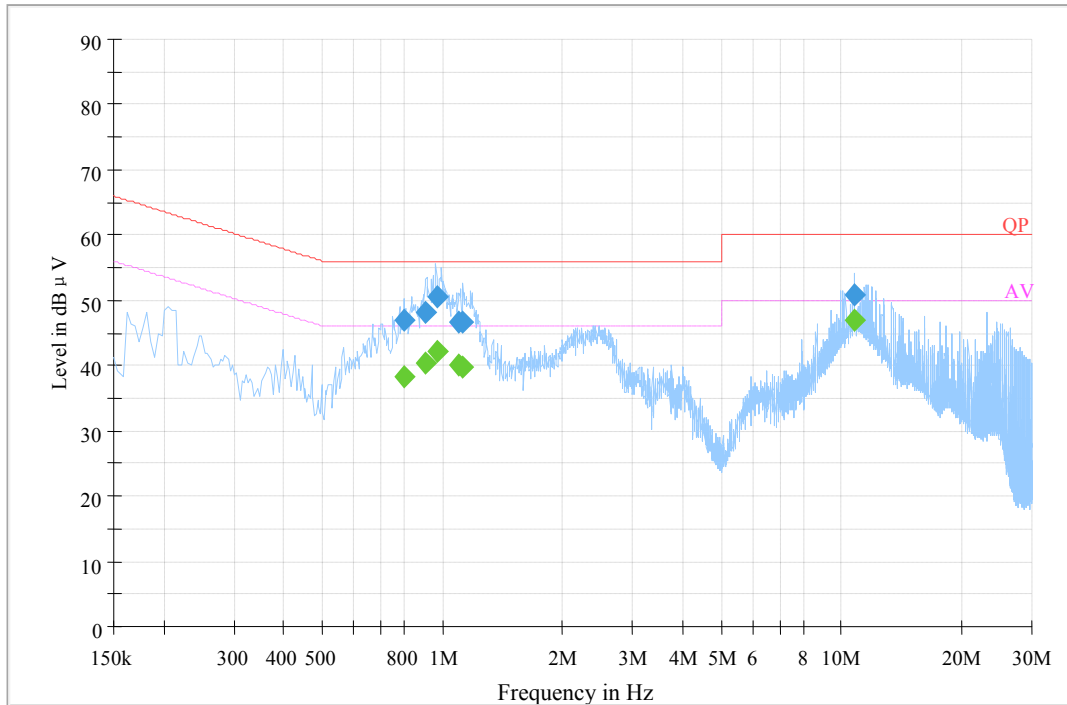
Powered by PoE

AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.963690	44.9	20.1	56.0	11.1	QP
1.144990	41.8	20.1	56.0	14.2	QP
10.244370	52.6	20.0	60.0	7.4	QP
10.792090	54.0	20.0	60.0	6.0	QP
11.891590	53.1	20.0	60.0	6.9	QP
13.421630	50.1	20.1	60.0	9.9	QP
0.963690	36.9	20.1	46.0	9.1	Ave.
1.144990	33.9	20.1	46.0	12.1	Ave.
10.244370	46.3	20.0	50.0	3.7	Ave.
10.792090	45.9	20.0	50.0	4.1	Ave.
11.891590	45.8	20.0	50.0	4.2	Ave.
13.421630	45.7	20.1	50.0	4.3	Ave.

AC 120V/60 Hz, Neutral



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.805970	46.8	20.0	56.0	9.2	QP
0.912410	48.2	20.1	56.0	7.8	QP
0.967570	50.4	20.1	56.0	5.6	QP
1.097350	46.5	20.1	56.0	9.5	QP
1.121110	46.8	20.1	56.0	9.2	QP
10.792090	50.8	20.0	60.0	9.2	QP
0.805970	38.4	20.0	46.0	7.6	Ave.
0.912410	40.3	20.1	46.0	5.7	Ave.
0.967570	42.1	20.1	46.0	3.9	Ave.
1.097350	40.0	20.1	46.0	6.0	Ave.
1.121110	39.8	20.1	46.0	6.2	Ave.
10.792090	47.0	20.0	50.0	3.0	Ave.

Note:

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

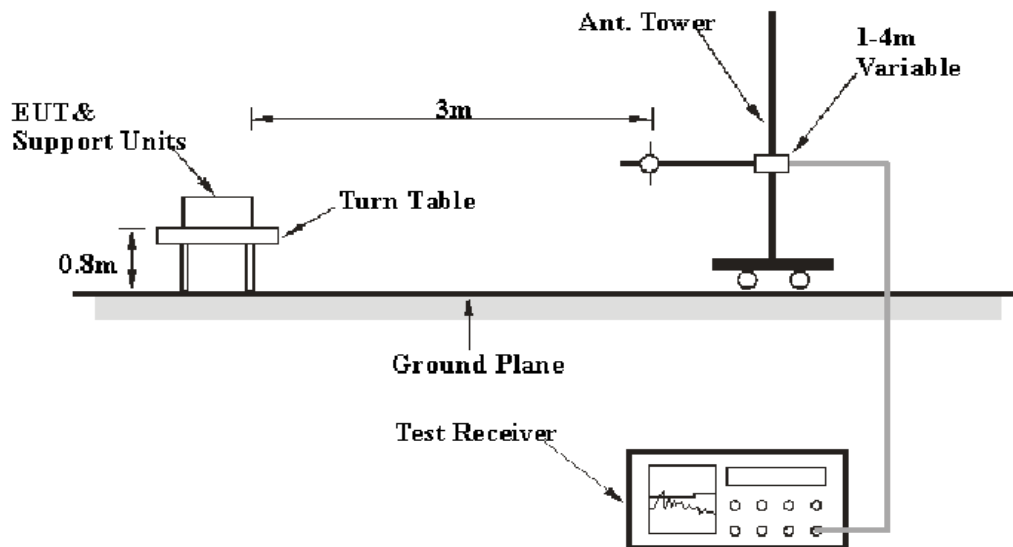
FCC §15.109 - RADIATED EMISSIONS

Applicable Standard

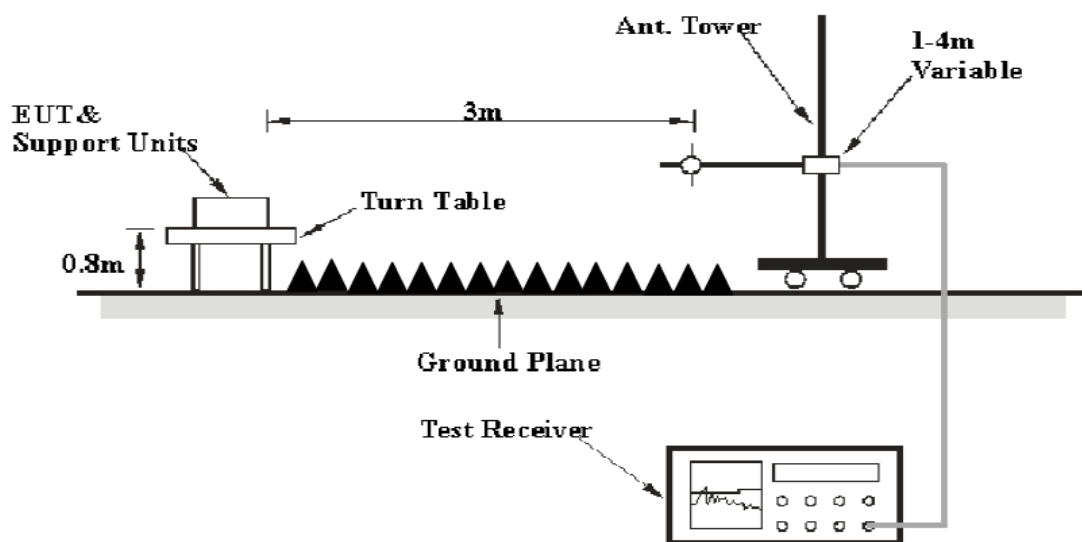
According to FCC§15.109

Test System Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

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	Detector
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	-	Average

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

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

In BACL., $U_{(L_m)}$ 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

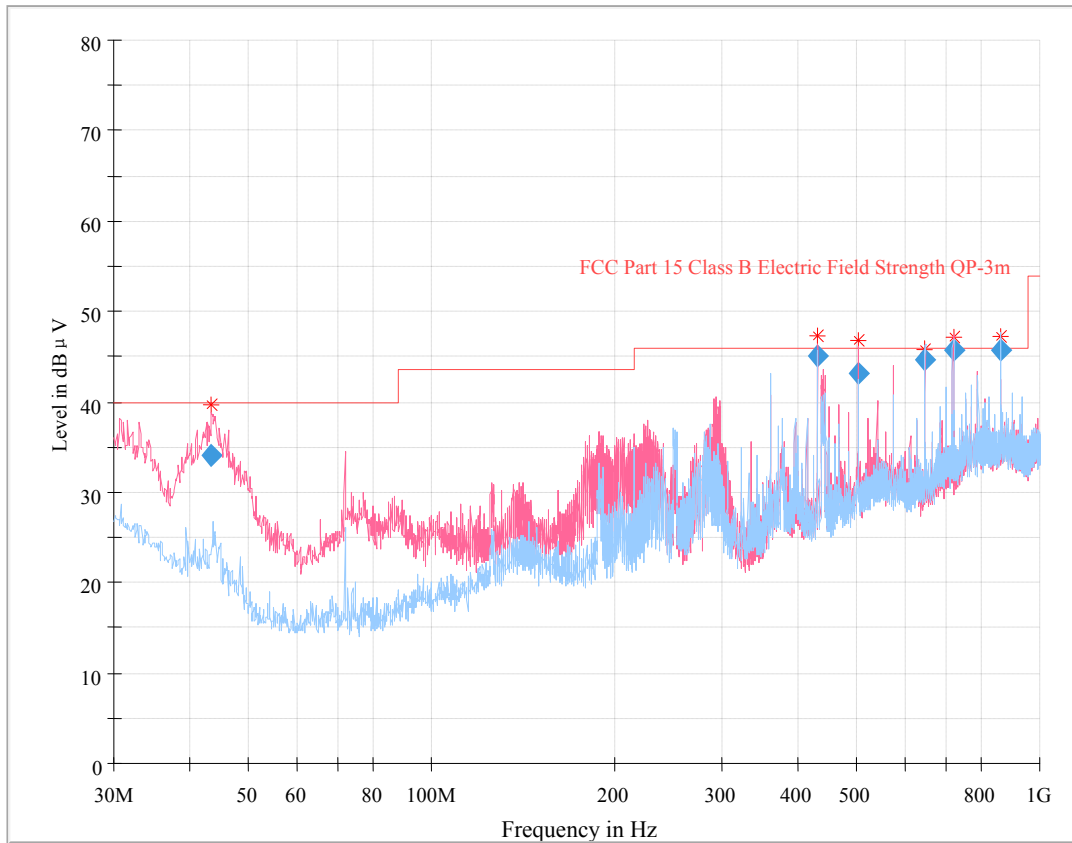
Temperature:	26 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Dylan Li on 2017-10-12 and 2017-10-25.

Tested mode 1:

Powered by Adapter 1

30 MHz – 1 GHz:



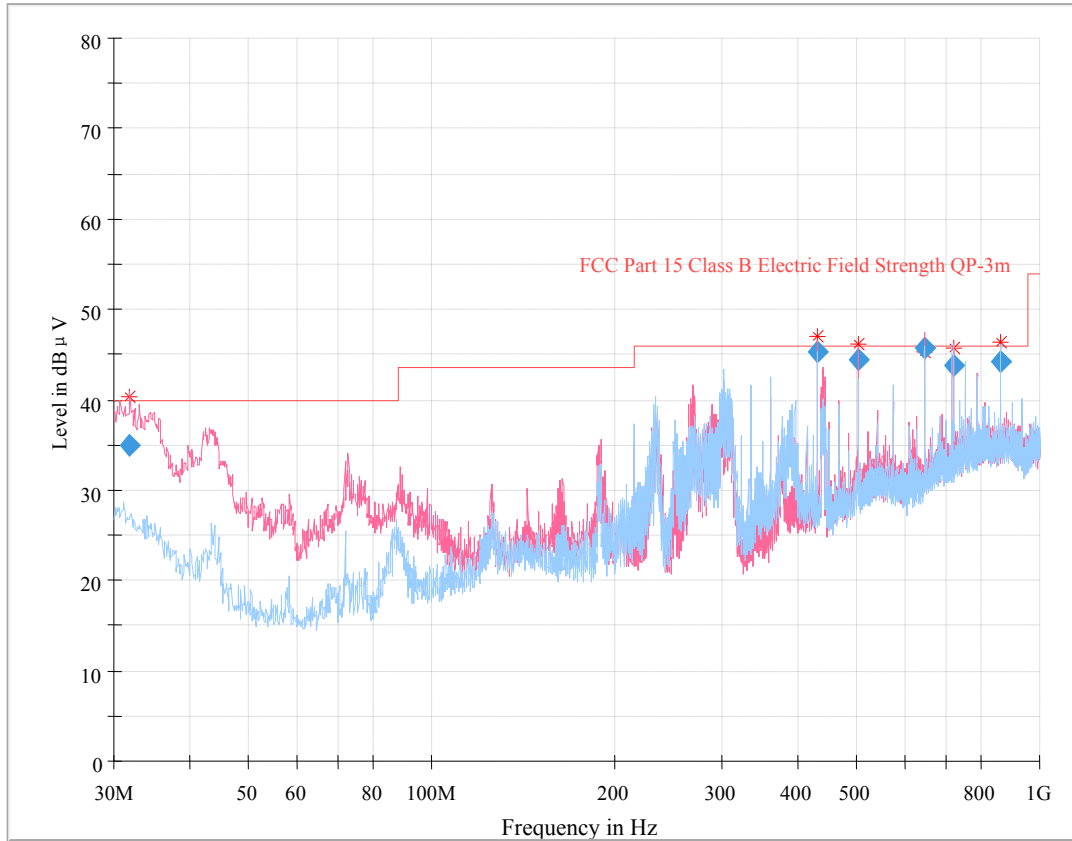
Frequency (MHz)	Corrected Amplitude (dBμV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
43.319875	34.10	112.0	V	337.0	-8.6	40.00	5.90
432.016500	45.11	123.0	V	241.0	0.2	46.00	0.89
503.978375	43.21	100.0	V	262.0	3.1	46.00	2.79
647.990875	44.54	118.0	H	188.0	4.3	46.00	1.46
720.013125	45.65	111.0	H	136.0	7.1	46.00	0.35
864.035625	45.70	100.0	H	212.0	9.2	46.00	0.30

Above 1GHz:

Frequency (MHz)	Measurement		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part 15B	
	Reading (dB μ V)	Detector (PK/QP/Ave.)		Height (m)	Polar (H / V)			Limit (dB μ V/m)	Margin (dB)
1244.73	50.11	PK	24	1.7	H	-8.48	41.63	74	32.37
1244.73	33.41	Ave.	24	1.7	H	-8.48	24.93	54	29.07
2971.94	44.68	PK	95	2.2	H	1.21	45.89	74	28.11
2971.94	30.51	Ave.	95	2.2	H	1.21	31.72	54	22.28
1274.36	49.35	PK	13	1.8	V	-8.04	41.31	74	32.69
1274.36	32.89	Ave.	13	1.8	V	-8.04	24.85	54	29.15
2923.84	44.83	PK	144	1.7	V	-0.60	44.23	74	29.77
2923.84	30.64	Ave.	144	1.7	V	-0.60	30.04	54	23.96

Powered by Adapter 2

30 MHz – 1 GHz:



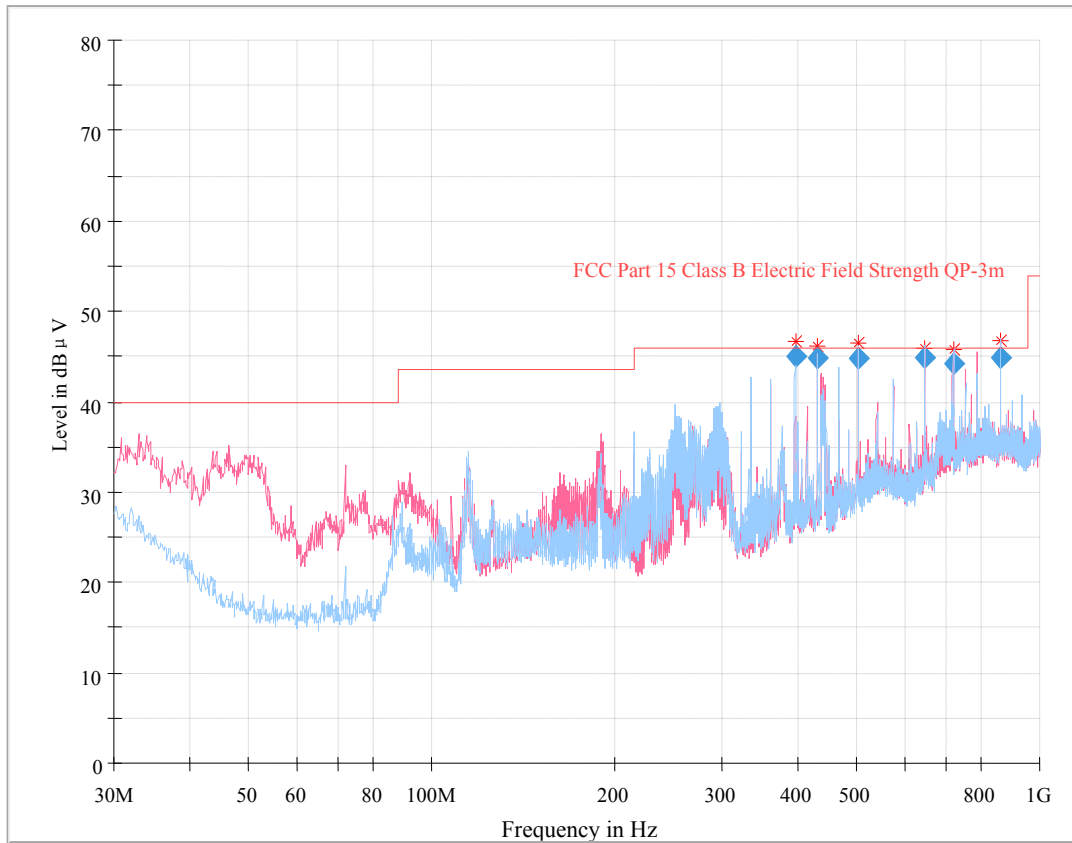
Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
31.712375	34.97	100.0	V	86.0	-0.9	40.00	5.03
432.009875	45.30	119.0	V	252.0	0.2	46.00	0.70
503.999750	44.36	106.0	V	259.0	3.1	46.00	1.64
647.993375	45.71	123.0	H	183.0	4.3	46.00	0.29
719.999875	43.85	107.0	H	137.0	7.1	46.00	2.15
863.982500	44.27	106.0	H	211.0	9.2	46.00	1.73

Above 1GHz:

Frequency (MHz)	Measurement		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part 15B	
	Reading (dB μ V)	Detector (PK/QP/Ave.)		Height (m)	Polar (H / V)			Limit (dB μ V/m)	Margin (dB)
4078.15	44.31	PK	194	1.1	H	4.04	48.35	74	25.65
4078.15	30.34	Ave.	194	1.1	H	4.04	34.38	54	19.62
4583.16	44.69	PK	60	1.5	V	5.31	50.00	74	24.00
4583.16	30.54	Ave.	60	1.5	V	5.31	35.85	54	18.15
1405.81	47.09	PK	141	2.0	H	-7.89	39.20	74	34.80
1405.81	29.16	Ave.	141	2.0	H	-7.89	21.27	54	32.73
1427.60	46.37	PK	261	2.1	V	-7.89	38.48	74	35.52
1427.60	28.82	Ave.	261	2.1	V	-7.89	20.93	54	33.07

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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)
396.010750	45.45	106.0	H	258.0	-0.1	46.00	0.55
431.990000	45.34	123.0	V	227.0	0.2	46.00	0.66
504.008000	45.13	169.0	H	220.0	3.1	46.00	0.87
648.006000	45.24	165.0	V	276.0	4.3	46.00	0.76
720.011625	43.24	110.0	H	137.0	7.1	46.00	2.76
864.015625	45.06	156.0	H	211.0	9.2	46.00	0.94

Above 1GHz:

Frequency (MHz)	Measurement		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part 15B	
	Reading (dB μ V)	Detector (PK/QP/Ave.)		Height (m)	Polar (H / V)			Limit (dB μ V/m)	Margin (dB)
1546.78	50.26	PK	16	1.1	H	-5.52	44.74	74	29.26
1546.78	33.22	Ave.	16	1.1	H	-5.52	27.70	54	26.30
4030.06	44.28	PK	150	1.5	H	3.06	47.34	74	26.66
4030.06	30.11	Ave.	150	1.5	H	3.06	33.17	54	20.83
1605.45	49.67	PK	186	2.0	V	-5.35	44.32	74	29.68
1605.45	33.05	Ave.	186	2.0	V	-5.35	27.70	54	26.30
4006.01	44.36	PK	24	1.7	V	3.06	47.42	74	26.58
4006.01	30.15	Ave.	24	1.7	V	3.06	33.21	54	20.79

Note:

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

