TESTING LABORATORY
CERTIFICATE # 4821.01

FCC PART 15B, CLASS B
TEST REPORT

For

Grandstream Networks, Inc.

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

FCC ID: YZZGMD1208

Report Type:	**Product Type:**
Original Report	Desktop Wireless Microphone

Test Engineer:	Haiguo Li Harris He Alan He
Report Number:	RSZ200506003-00A
Report Date:	2020-11-27
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Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "★".

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Desktop Wireless Microphone
Tested Model	GMD1208
Voltage Range	DC 3.8V from battery or DC 5V from adapter
Date of Test	2020-11-20 to 2020-11-27
Sample serial number	RSZ200506003-RF-S1 (Assigned by BACL, Shenzhen)
Received date	2020-05-06
Sample/EUT Status	Good condition
Adapter 1 information	Model: PS05L050K1000UU Input: AC 100-240V, 50/60Hz, 0.25A Output: DC 5.0V, 1.0A
Adapter 2 information	Model: E005-1E050100VUU Input: AC 100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1.0A
Adapter 3 information	Model: GQ06-050100-ZUU Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 1.0A

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A, 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.

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

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of test at Bay Area Compliance Laboratories Corp. (Shenzhen) is shown as below. And the uncertainty will be taken into consideration for the test data recorded in the report

Parameter		uncertainty
Conducted Emissions		±1.95dB
Radiated Emissions	Below 1GHz	±4.75dB
	Above 1GHz	±4.88dB

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

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.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 342867, the FCC Designation No.: CN1221.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a manufacturer testing fashion.

Test Mode 1: Charging

Test Mode 2: Working (Connecting GMD1208 to PC as microphone)

EUT Exercise Software

N/A

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
DELL	Laptop	Latitude E5430	11429208685
DELL	AC Adapter	PA-10	0933 DMYD-AT59637-B
DELL	Mouse	M-U0026	DZL-M-U0026(B)

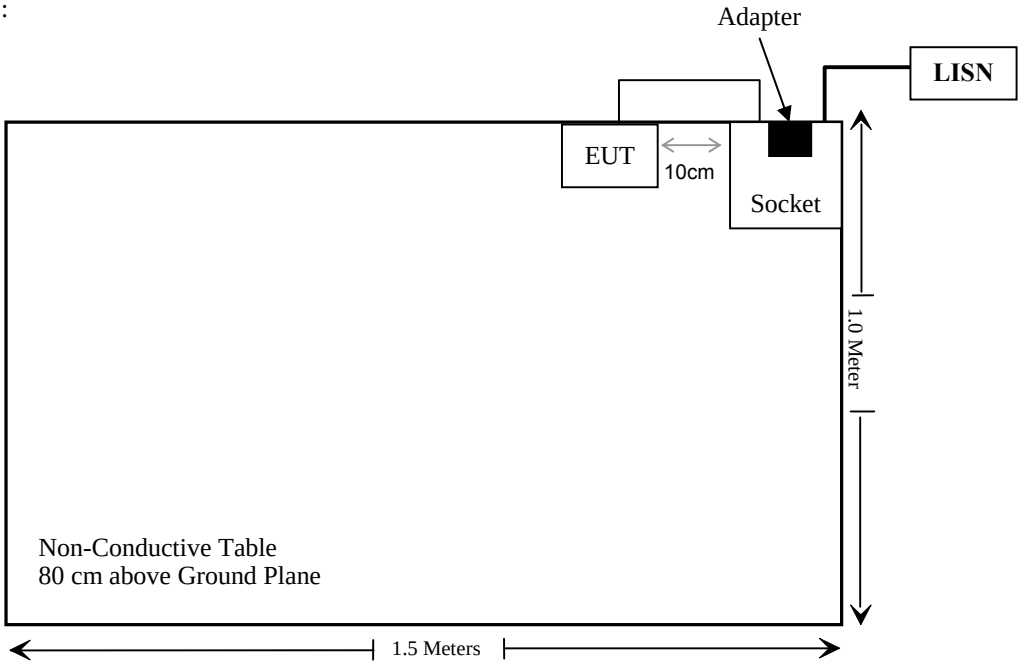
External I/O Cable

Cable Description	Length (m)	From/Port	To
Un-Shielding Detachable USB Cable	0.6	EUT	Adapter/Laptop
Un-Shielding Detachable AC Cable	1.2	Socket	AC Adapter
Un-shielding Un-Detachable DC Cable	1.8	AC Adapter	Laptop
Un-Shielding Detachable RJ45 Cable	10	Laptop	Internet
Un-shielding Un-Detachable USB Cable	1.2	EUT	Mouse

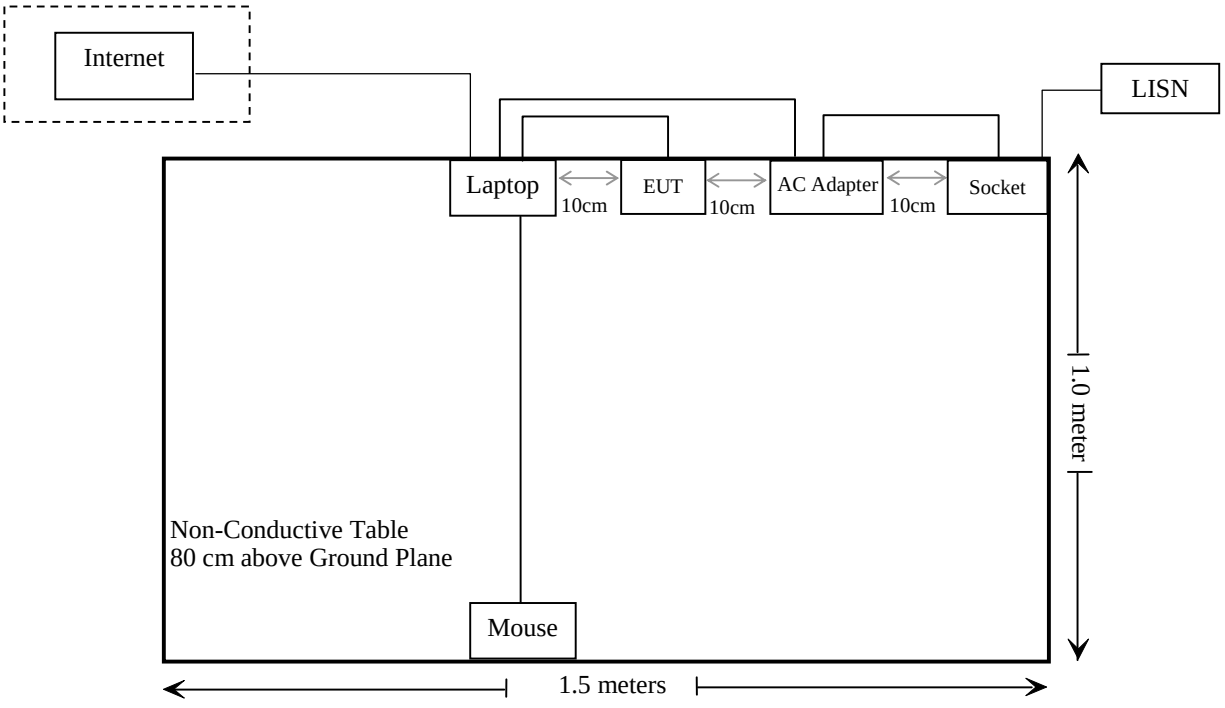
Block Diagram of Test Setup

For conducted emission:

Test Mode 1:



Test Mode 2:



SUMMARY OF TEST RESULTS

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

EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
AC Line Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2020/08/04	2021/08/03
Rohde & Schwarz	LISN	ENV216	101613	2020/08/04	2021/08/03
Rohde & Schwarz	Transient Limitor	ESH3Z2	DE25985	2019/11/29	2020/11/28
Unknown	CE Cable	CE Cable	UF A210B-1-0720-504504	2019/11/29	2020/11/28
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR
Radiated Emission Test					
R&S	EMI Test Receiver	ESR3	102455	2020/08/04	2021/08/03
Sonoma instrument	Pre-amplifier	310 N	186238	2020/08/04	2021/08/03
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2017/12/22	2020/12/21
Unknown	Cable 2	RF Cable 2	F-03-EM197	2019/11/29	2020/11/28
Unknown	Cable	Chamber Cable 1	F-03-EM236	2019/11/29	2020/11/28
Rohde & Schwarz	Auto test software	EMC 32	V9.10	NCR	NCR
Rohde & Schwarz	Spectrum Analyzer	FSV40-N	102259	2020/08/04	2021/08/03
COM-POWER	Pre-amplifier	PA-122	181919	2019/11/29	2020/11/28
Sunol Sciences	Horn Antenna	DRH-118	A052604	2017/12/22	2020/12/21
Insulted Wire Inc.	RF Cable	SPS-2503-3150	02222010	2019/11/29	2020/11/28
Unknown	RF Cable	W1101-EQ1 OUT	F-19-EM005	2019/11/29	2020/11/28

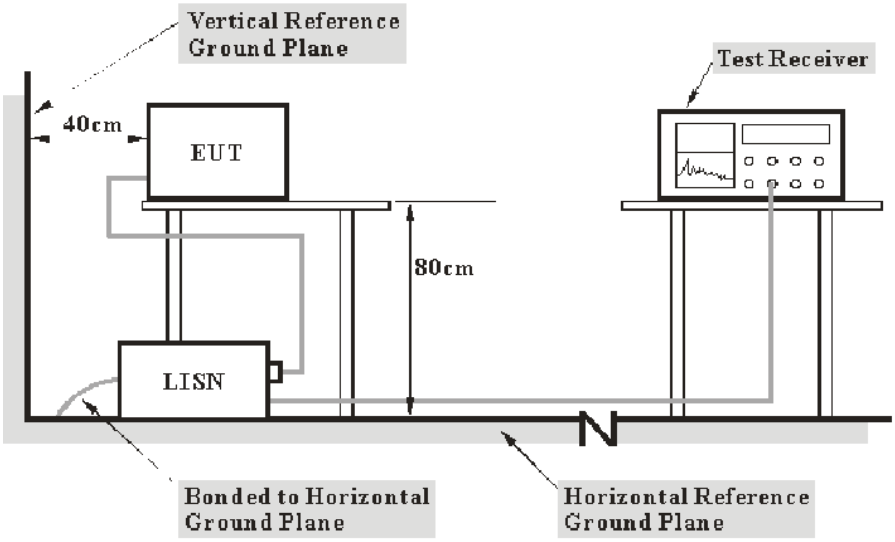
*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

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 per ANSI C63.4-2014. The related limit was specified in FCC Part 15.107 Class B.

The spacing between the peripherals was 10 cm.

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

During the conducted emission test, the host PC was connected to the first LISN and the other relevant equipments were conncected to the second LISN.

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

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

Corrected Factor & Margin Calculation

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

Correction Factor = LISN VDF + Cable Loss + 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 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Test Data

Environmental Conditions

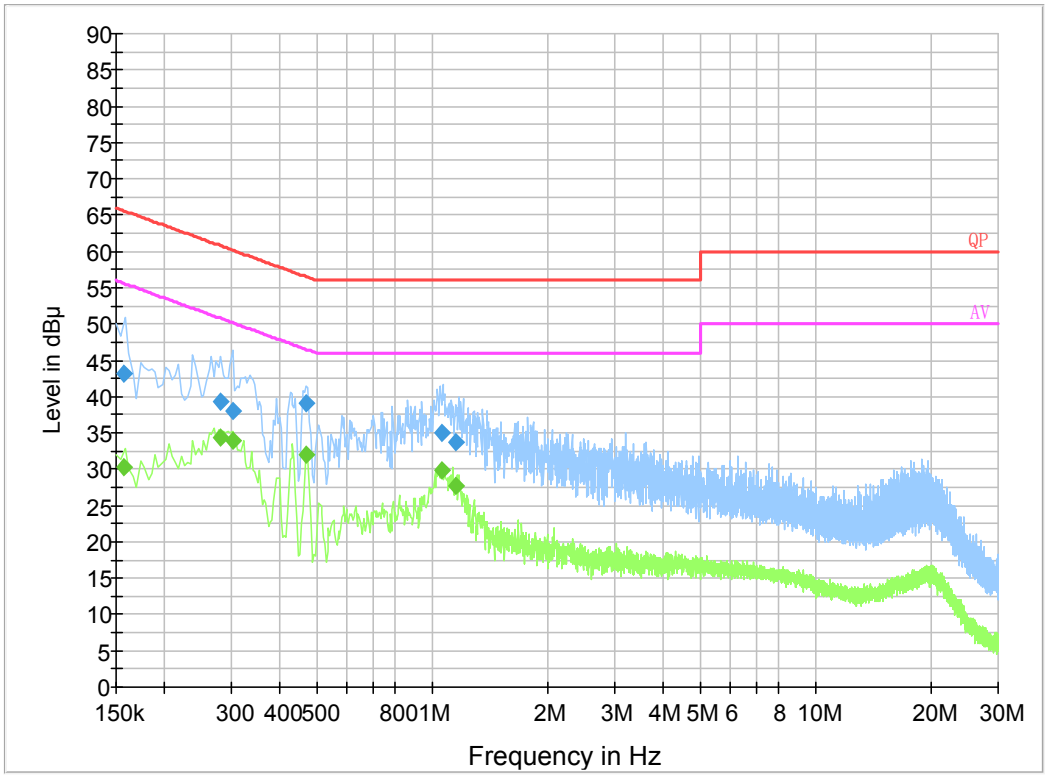
Temperature:	25 ℃
Relative Humidity:	65 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2020-11-20 and 2020-11-27.

Test Mode 1

Adapter 1(Model: PS05L050K1000UU)

AC 120V/60 Hz, Line



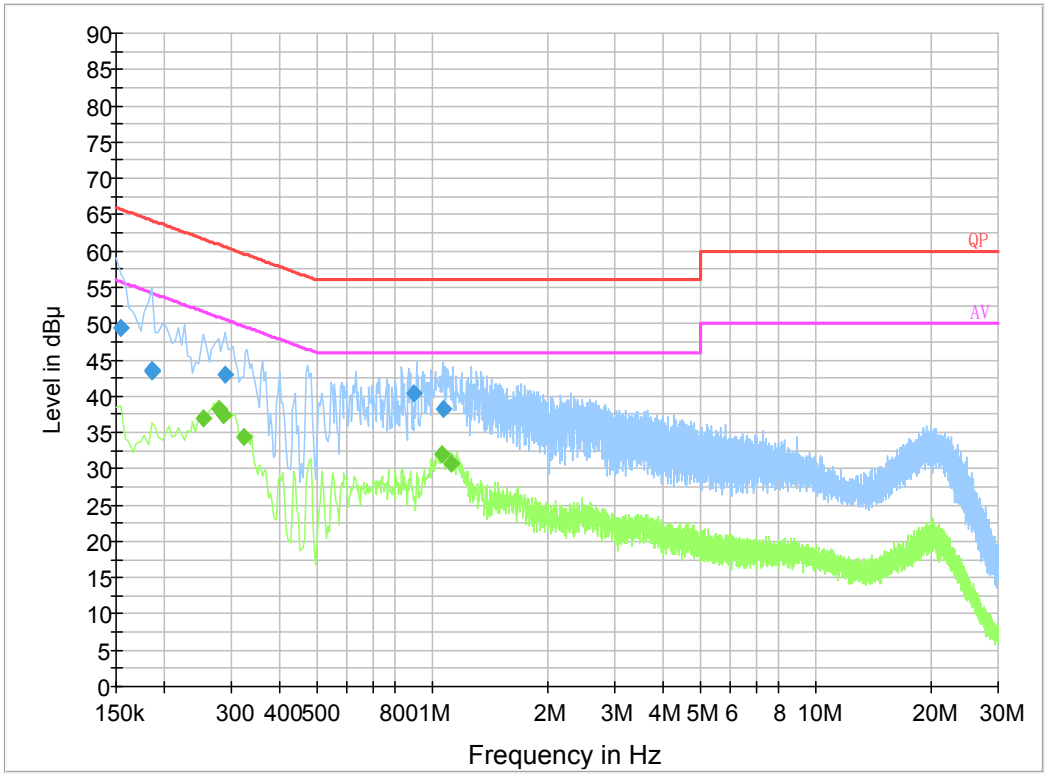
Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.157500	43.3	9.000	L1	19.8	22.3	65.6
0.281500	39.4	9.000	L1	19.7	21.4	60.8
0.301470	38.1	9.000	L1	19.7	22.1	60.2
0.470950	39.2	9.000	L1	19.8	17.3	56.5
1.061950	35.1	9.000	L1	19.9	20.9	56.0
1.156390	33.6	9.000	L1	19.8	22.4	56.0

Final Result 2

Frequency (MHz)	Average (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.157500	30.4	9.000	L1	19.8	25.2	55.6
0.281500	34.3	9.000	L1	19.7	16.5	50.8
0.301470	33.9	9.000	L1	19.7	16.3	50.2
0.470950	32.0	9.000	L1	19.8	14.5	46.5
1.061950	29.8	9.000	L1	19.9	16.2	46.0
1.156390	27.6	9.000	L1	19.8	18.4	46.0

AC 120V/60 Hz, Neutral



Final Result 1

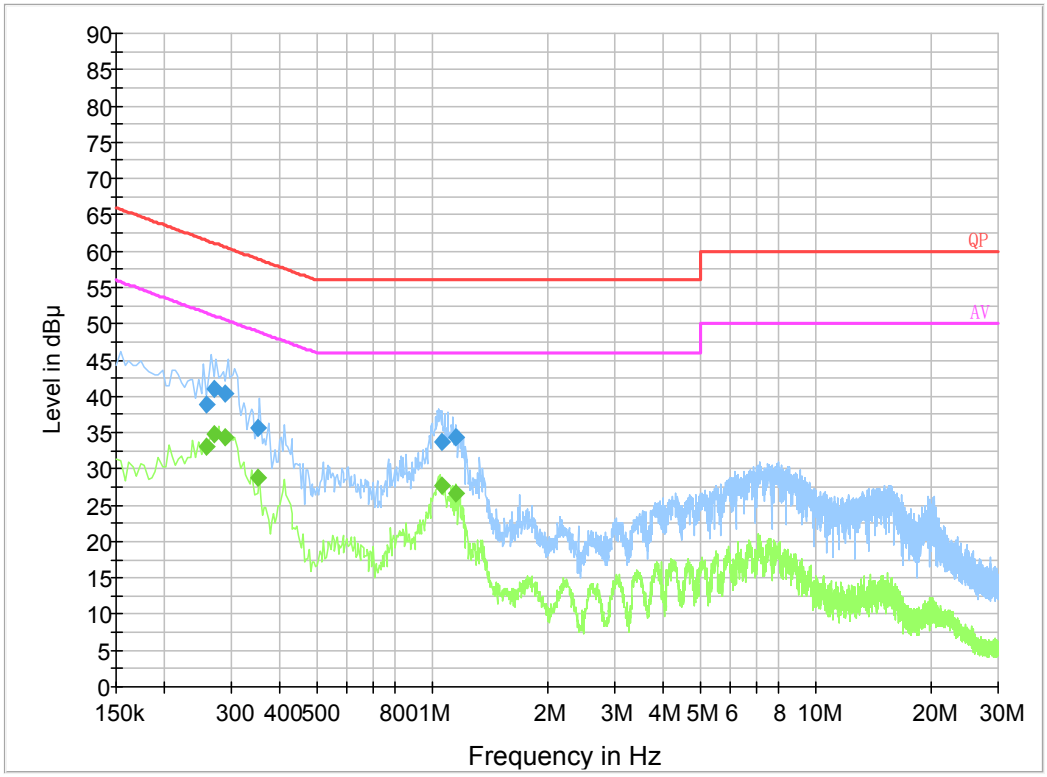
Frequency (MHz)	QuasiPeak (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.154500	49.5	9.000	N	19.8	16.3	65.8
0.185500	43.6	9.000	N	19.8	20.6	64.2
0.186500	43.5	9.000	N	19.8	20.7	64.2
0.289500	42.9	9.000	N	19.7	17.6	60.5
0.896350	40.4	9.000	N	19.7	15.6	56.0
1.069950	38.2	9.000	N	19.8	17.8	56.0

Final Result 2

Frequency (MHz)	Average (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.254000	37.0	9.000	N	19.8	14.6	51.6
0.278000	38.2	9.000	N	19.7	12.7	50.9
0.286000	37.4	9.000	N	19.7	13.2	50.6
0.322000	34.4	9.000	N	19.8	15.3	49.7
1.066000	32.1	9.000	N	19.8	13.9	46.0
1.126000	30.8	9.000	N	19.8	15.2	46.0

Adapter 2(Model: E005-1E050100VUU)

AC 120V/60 Hz, Line



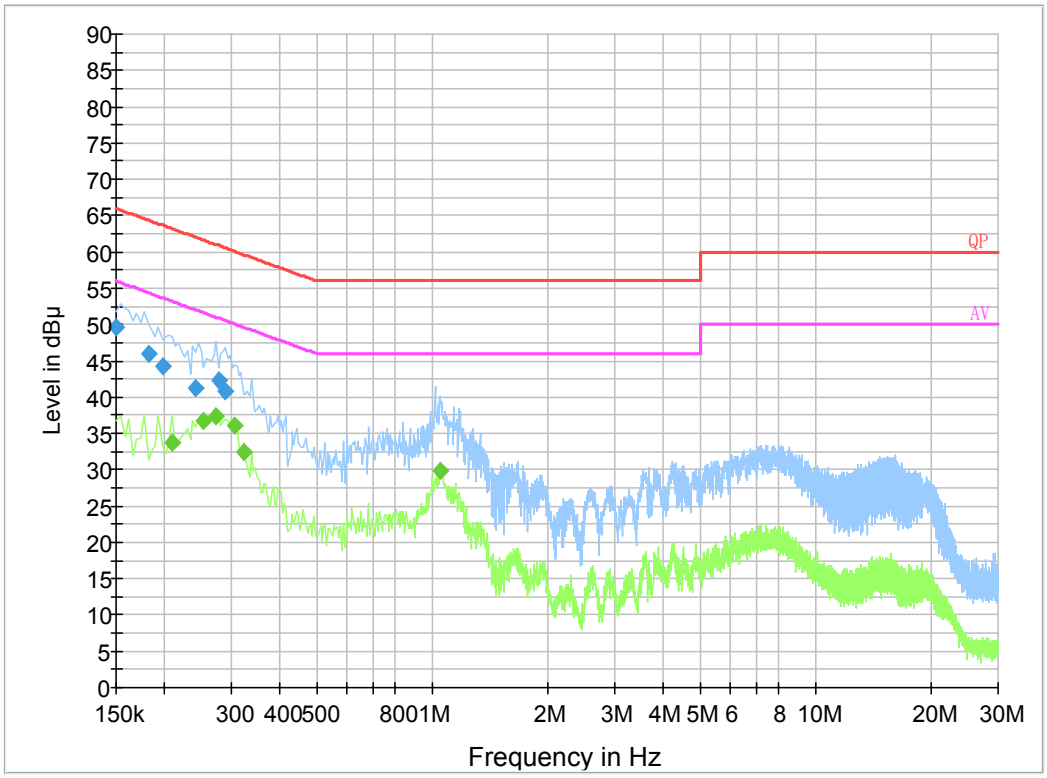
Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.258500	38.8	9.000	L1	19.8	22.7	61.5
0.269500	41.1	9.000	L1	19.8	20.0	61.1
0.289500	40.3	9.000	L1	19.7	20.2	60.5
0.352690	35.7	9.000	L1	19.9	23.2	58.9
1.057630	33.7	9.000	L1	19.9	22.3	56.0
1.152930	34.4	9.000	L1	19.8	21.6	56.0

Final Result 2

Frequency (MHz)	Average (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.258500	33.0	9.000	L1	19.8	18.5	51.5
0.269500	34.8	9.000	L1	19.8	16.3	51.1
0.289500	34.3	9.000	L1	19.7	16.2	50.5
0.352690	28.8	9.000	L1	19.9	20.1	48.9
1.057630	27.8	9.000	L1	19.9	18.2	46.0
1.152930	26.7	9.000	L1	19.8	19.3	46.0

AC 120V/60 Hz, Neutral



Final Result 1

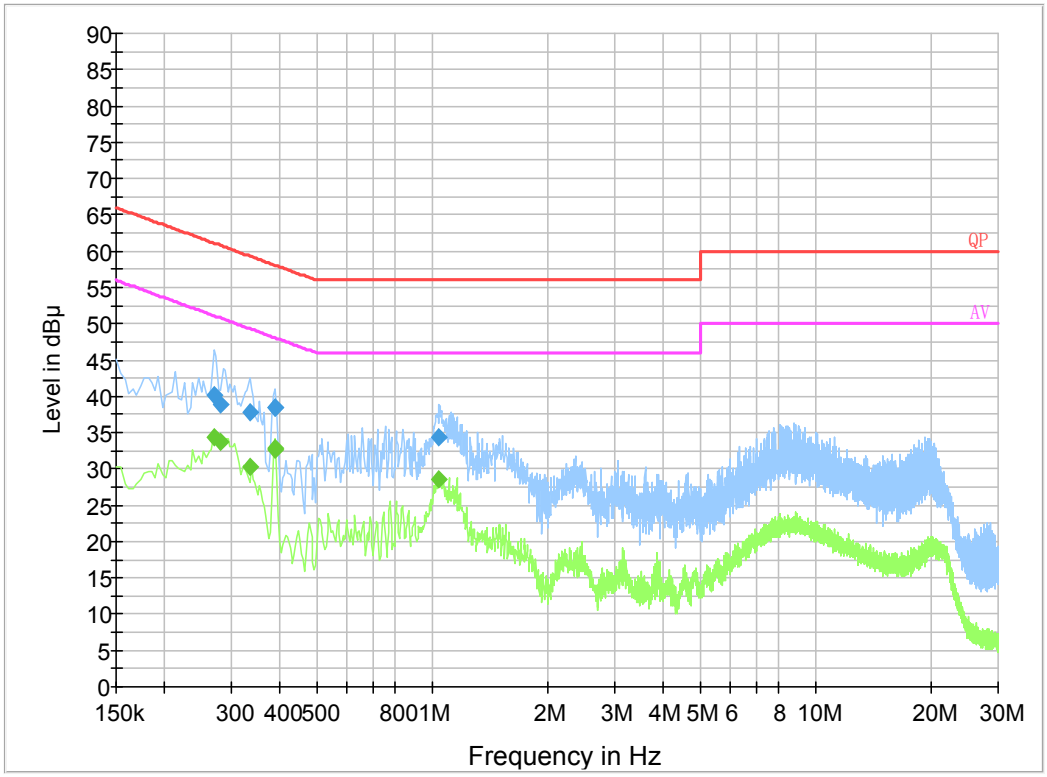
Frequency (MHz)	QuasiPeak (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.150000	49.5	0.200	N	19.8	16.5	66.0
0.182500	46.0	9.000	N	19.8	18.4	64.4
0.198500	44.2	9.000	N	19.8	19.5	63.7
0.241500	41.2	9.000	N	19.8	20.8	62.0
0.277500	42.4	9.000	N	19.7	18.5	60.9
0.289500	40.9	9.000	N	19.7	19.6	60.5

Final Result 2

Frequency (MHz)	Average (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.210000	33.7	9.000	N	19.8	19.5	53.2
0.254000	36.7	9.000	N	19.8	14.9	51.6
0.274000	37.3	9.000	N	19.7	13.7	51.0
0.306000	36.2	9.000	N	19.7	13.9	50.1
0.322000	32.5	9.000	N	19.8	17.2	49.7
1.050000	29.8	9.000	N	19.8	16.2	46.0

Adapter 3(Model: GQ06-050100-ZUU)

AC 120V/60 Hz, Line



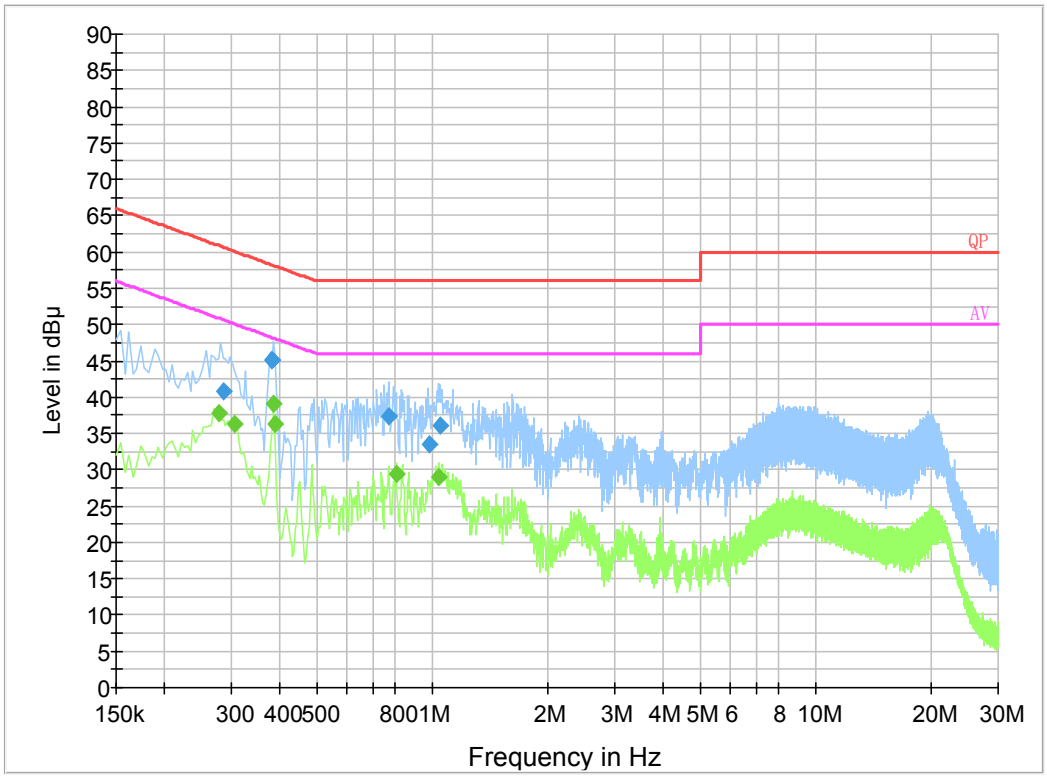
Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.269500	40.2	9.000	L1	19.8	20.9	61.1
0.281500	38.9	9.000	L1	19.7	21.9	60.8
0.336990	37.9	9.000	L1	19.8	21.4	59.3
0.388150	38.4	9.000	L1	19.9	19.7	58.1
0.388210	38.5	9.000	L1	19.9	19.6	58.1
1.046310	34.3	9.000	L1	19.9	21.7	56.0

Final Result 2

Frequency (MHz)	Average (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.269500	34.4	9.000	L1	19.8	16.7	51.1
0.281500	33.7	9.000	L1	19.7	17.1	50.8
0.336990	30.3	9.000	L1	19.8	19.0	49.3
0.388150	32.8	9.000	L1	19.9	15.3	48.1
0.388210	32.8	9.000	L1	19.9	15.3	48.1
1.046310	28.5	9.000	L1	19.9	17.5	46.0

AC 120V/60 Hz, Neutral



Final Result 1

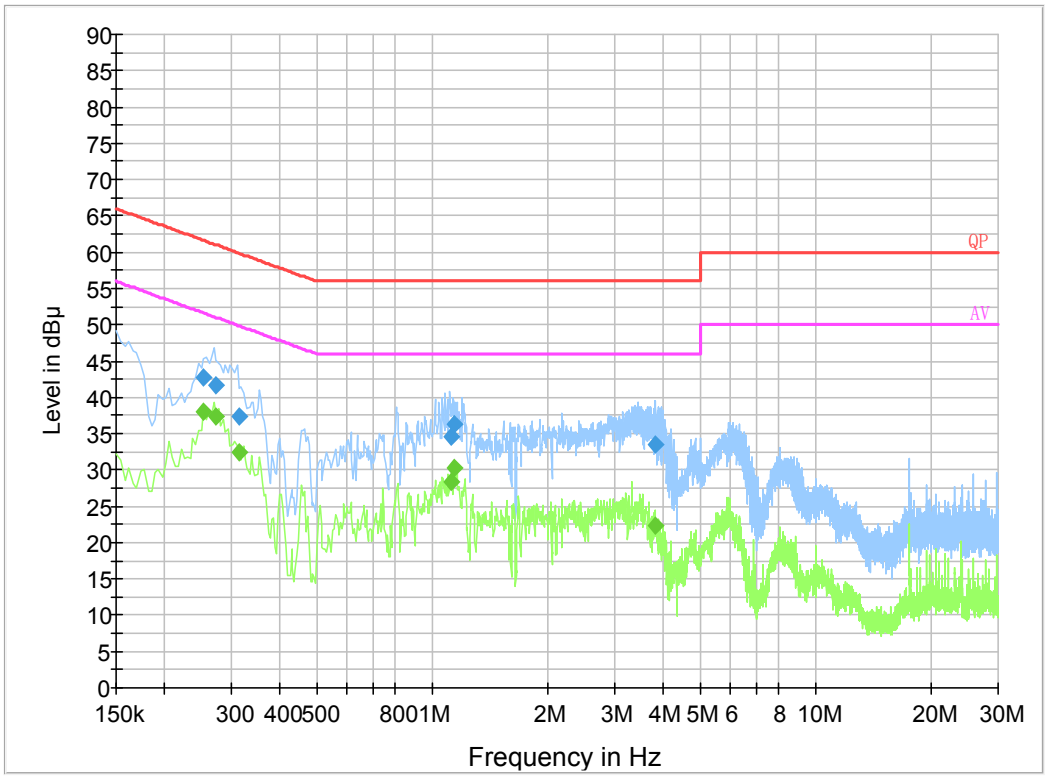
Frequency (MHz)	QuasiPeak (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.286500	40.9	9.000	N	19.7	19.7	60.6
0.384150	45.0	9.000	N	19.8	13.2	58.2
0.384210	45.1	9.000	N	19.8	13.1	58.2
0.774390	37.4	9.000	N	19.8	18.6	56.0
0.987330	33.4	9.000	N	19.8	22.6	56.0
1.046430	36.1	9.000	N	19.8	19.9	56.0

Final Result 2

Frequency (MHz)	Average (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.278000	37.7	9.000	N	19.7	13.2	50.9
0.306000	36.2	9.000	N	19.7	13.9	50.1
0.386000	39.2	9.000	N	19.8	8.9	48.1
0.390000	36.3	9.000	N	19.8	11.8	48.1
0.806000	29.5	9.000	N	19.8	16.5	46.0
1.042000	29.0	9.000	N	19.8	17.0	46.0

Test Mode 2

AC 120V/60 Hz, Line



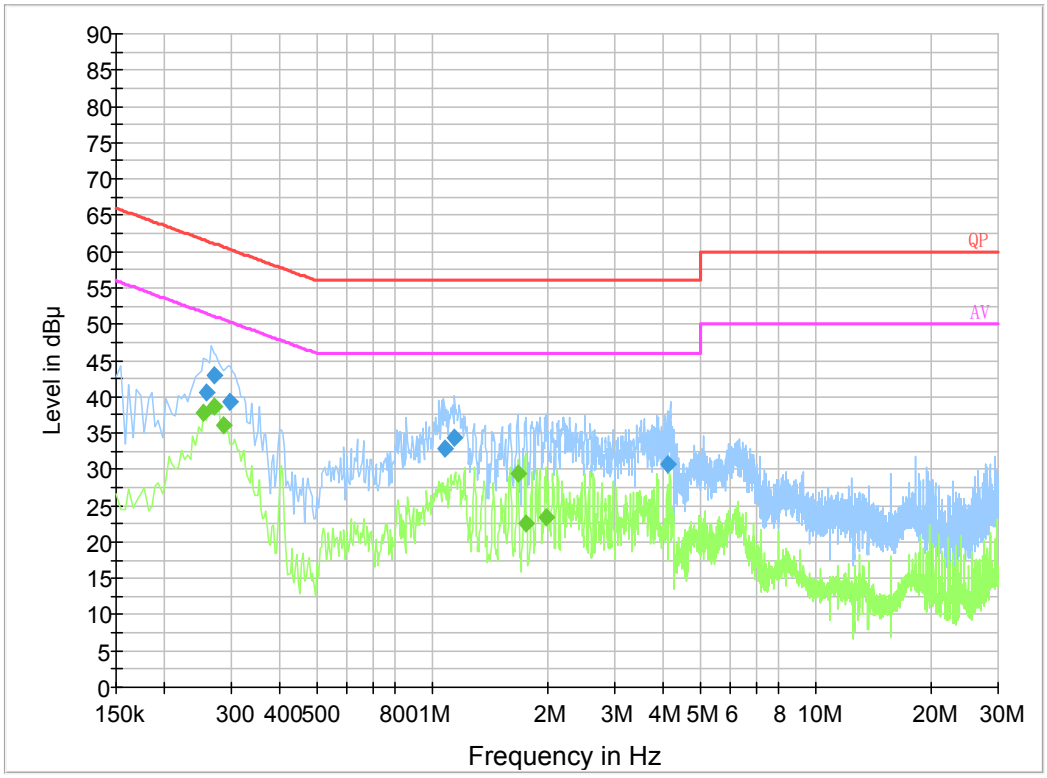
Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.253500	42.8	9.000	L1	19.8	18.8	61.6
0.273500	41.6	9.000	L1	19.8	19.4	61.0
0.314650	37.3	9.000	L1	19.8	22.5	59.8
1.121290	34.6	9.000	L1	19.8	21.4	56.0
1.148930	36.3	9.000	L1	19.8	19.7	56.0
3.816730	33.4	9.000	L1	19.9	22.6	56.0

Final Result 2

Frequency (MHz)	Average (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.253500	37.9	9.000	L1	19.8	13.7	51.6
0.273500	37.4	9.000	L1	19.8	13.6	51.0
0.314650	32.4	9.000	L1	19.8	17.4	49.8
1.121290	28.4	9.000	L1	19.8	17.6	46.0
1.148930	30.2	9.000	L1	19.8	15.8	46.0
3.816730	22.3	9.000	L1	19.9	23.7	46.0

AC 120V/60 Hz, Neutral



Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.257500	40.5	9.000	N	19.8	21.0	61.5
0.269500	42.9	9.000	N	19.7	18.2	61.1
0.297500	39.4	9.000	N	19.7	20.9	60.3
1.081890	32.9	9.000	N	19.8	23.1	56.0
1.140810	34.5	9.000	N	19.8	21.5	56.0
4.131270	30.7	9.000	N	19.9	25.3	56.0

Final Result 2

Frequency (MHz)	Average (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.254000	37.8	9.000	N	19.8	13.8	51.6
0.270000	38.7	9.000	N	19.7	12.4	51.1
0.286000	36.2	9.000	N	19.7	14.4	50.6
1.674000	29.5	9.000	N	19.8	16.5	46.0
1.754000	22.6	9.000	N	19.8	23.4	46.0
1.982000	23.4	9.000	N	19.9	22.6	46.0

Note:
1) Correction Factor =LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
2) Corrected Amplitude = Reading + Correction Factor
3) Margin = Limit – Corrected Amplitude

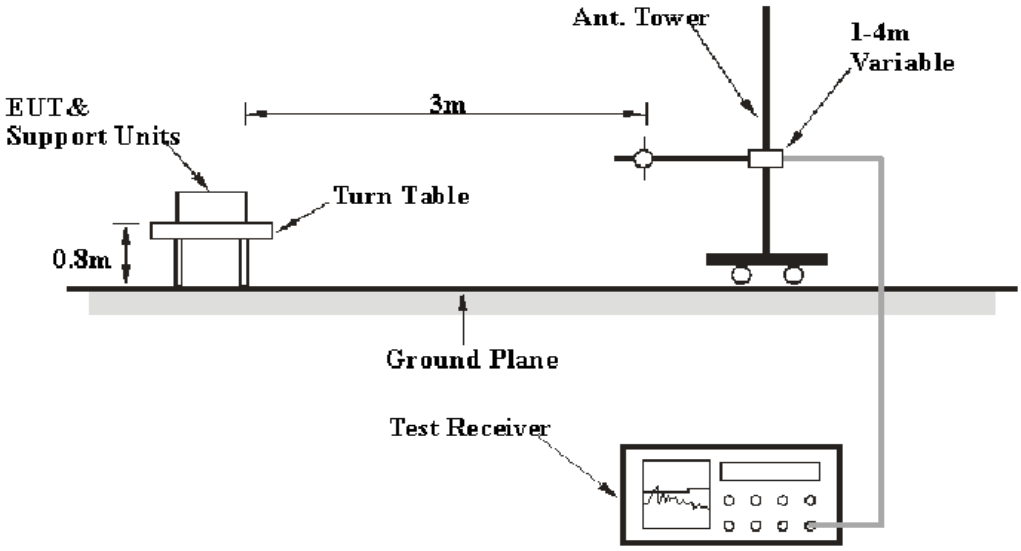
FCC §15.109 - RADIATED SPURIOUS EMISSIONS

Applicable Standard

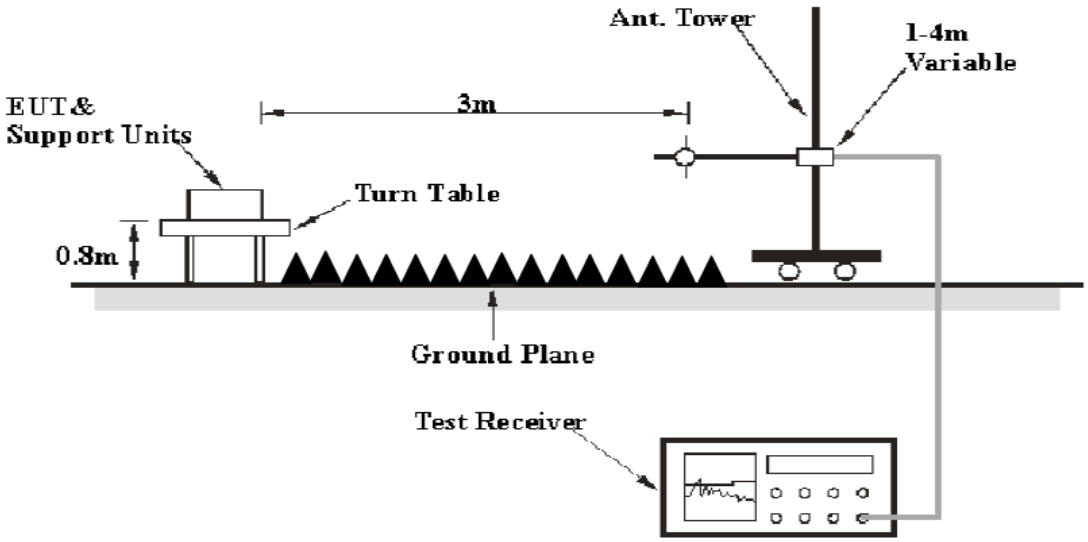
FCC §15.109

EUT 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

The system was investigated from 30 MHz to 12.4GHz.

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

Frequency Range	RBW	Video B/W	IF B/W	Measurment
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	Ave.

Test Procedure

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

All data was recorded in the Quasi-peak detector mode from 30 MHz to 1 GHz and PK and average detector modes for frequencies 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:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

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

Margin = Limit – Corrected Amplitude

Test Data

Environmental Conditions

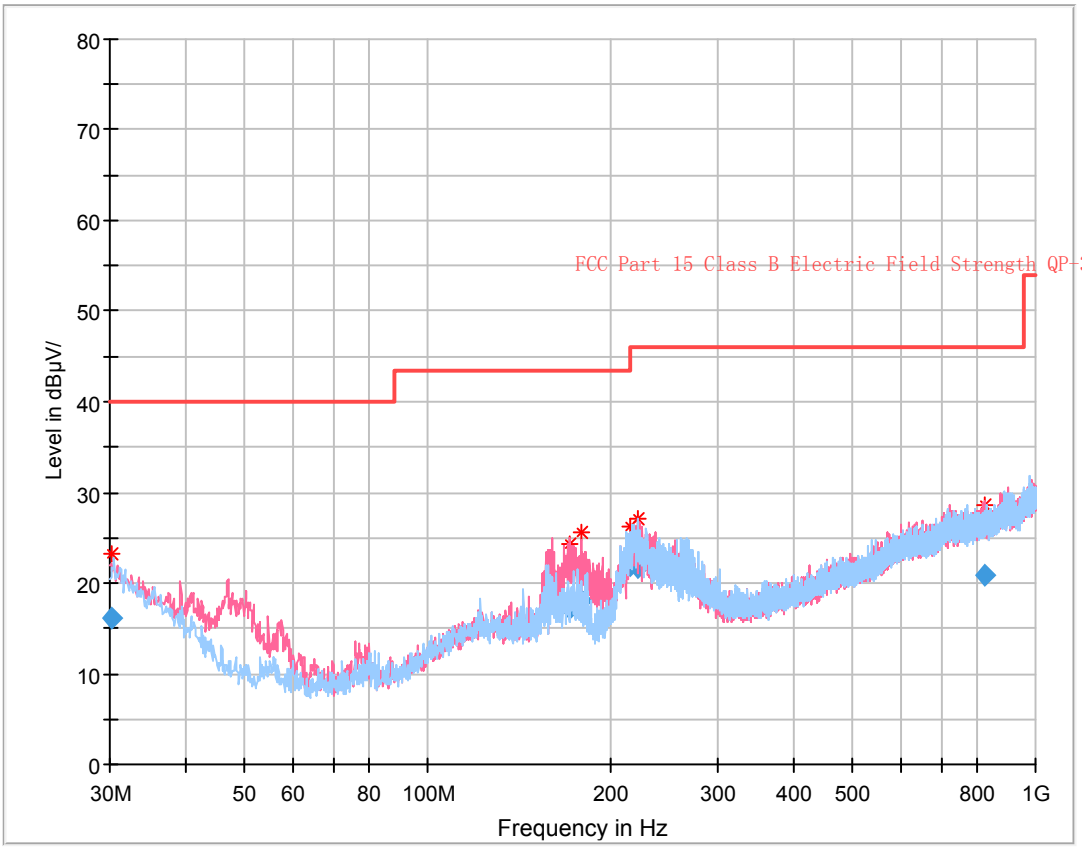
Temperature:	26~29.3 ℃
Relative Humidity:	44~53 %
ATM Pressure:	100.9~101.0 kPa

The testing was performed by Harris He on 2020-11-20 for below 1GHz and Alan He on 2020-11-20 and 2020-11-25 for above 1GHz.

Test Mode 1

Adapter 1(Model: PS05L050K1000UU)

30 MHz~1 GHz:



Final_Result

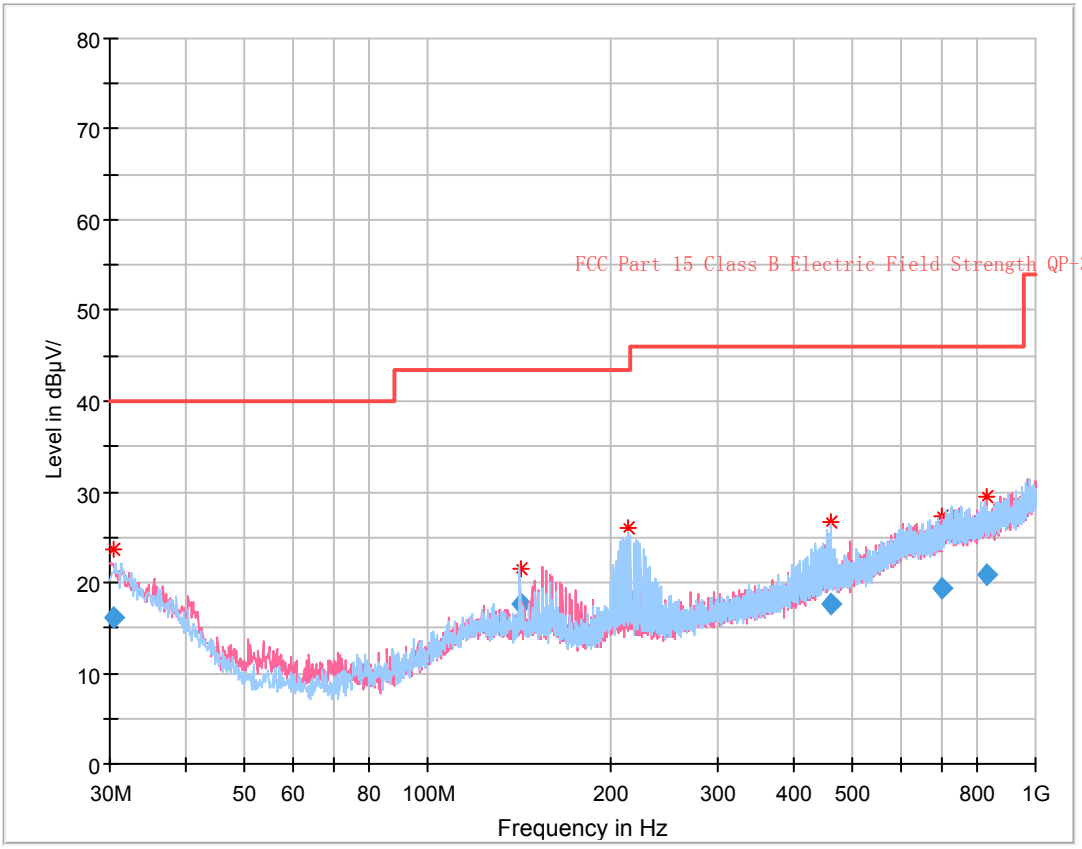
Frequency (MHz)	QuasiPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.283311	16.06	40.00	23.94	149.0	H	32.0	-4.6
171.567875	17.31	43.50	26.19	103.0	V	81.0	-11.7
179.078875	18.06	43.50	25.44	112.0	V	214.0	-12.0
215.954500	21.97	43.50	21.53	180.0	H	105.0	-10.7
221.997000	21.81	46.00	24.19	114.0	H	120.0	-10.7
827.102500	20.76	46.00	25.24	356.0	V	43.0	0.2

Above 1GHz:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBuV/m)	FCC Part 15B	
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H / V)			Limit (dBuV/m)	Margin (dB)
1358.60	59.46	PK	72	2.2	H	-3.52	55.94	74	18.06
1358.60	29.19	Ave.	72	2.2	H	-3.52	25.67	54	28.33
1358.60	64.53	PK	297	1.4	V	-3.52	61.01	74	12.99
1358.60	31.41	Ave.	297	1.4	V	-3.52	27.89	54	26.11
1126.67	61.45	PK	252	1.4	H	-5.43	56.02	74	17.98
1126.67	29.69	Ave.	252	1.4	H	-5.43	24.26	54	29.74
1126.67	61.23	PK	253	1.4	V	-5.43	55.80	74	18.20
1126.67	29.66	Ave.	253	1.4	V	-5.43	24.23	54	29.77

Adapter 2(Model: E005-1E050100VUU)

30 MHz~1 GHz:



Final_Result

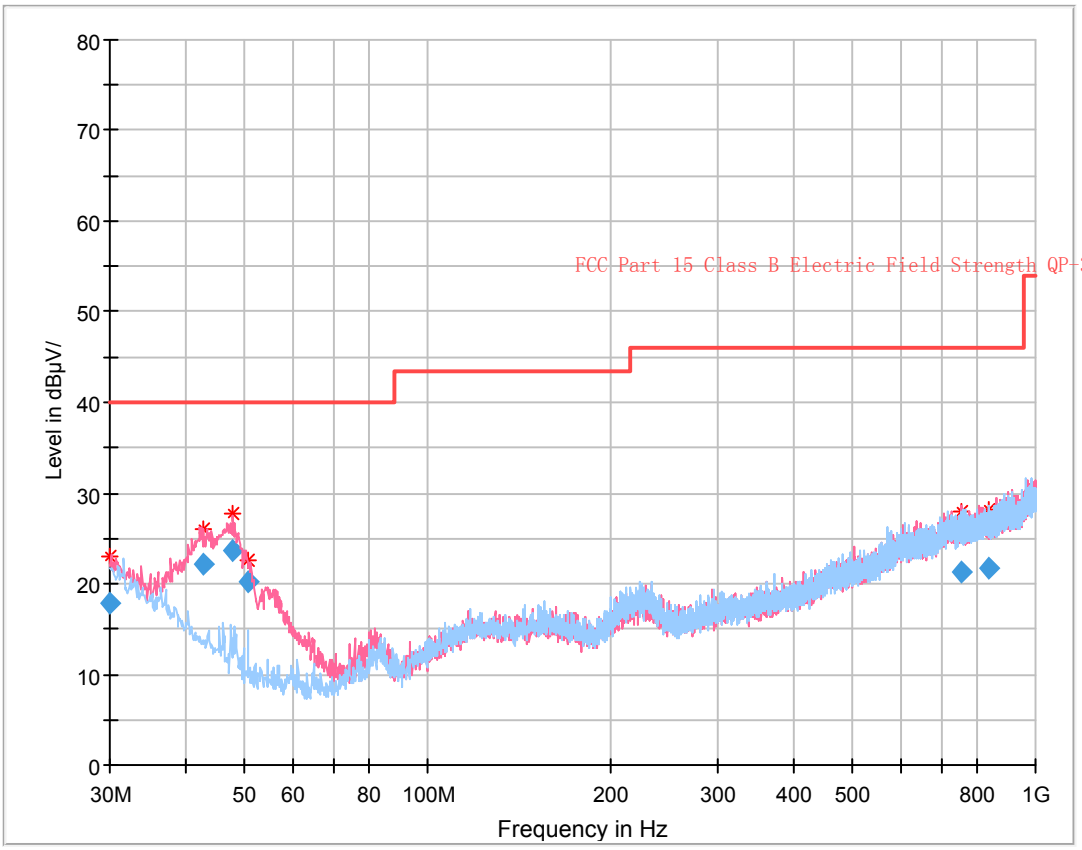
Frequency (MHz)	QuasiPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.429125	16.03	40.00	23.97	401.0	H	328.0	-4.7
142.052000	17.61	43.50	25.89	230.0	H	128.0	-11.1
214.010625	18.21	43.50	25.29	208.0	H	99.0	-10.7
459.775000	17.64	46.00	28.36	276.0	H	176.0	-5.8
702.943125	19.33	46.00	26.67	351.0	V	81.0	-1.1
828.770750	20.79	46.00	25.21	301.0	V	20.0	0.2

Above 1GHz:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBuV/m)	FCC Part 15B	
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H / V)			Limit (dBuV/m)	Margin (dB)
1352.04	60.12	PK	331	1.7	H	-3.62	56.50	74	17.50
1352.04	29.13	Ave.	331	1.7	H	-3.62	25.51	54	28.49
1352.04	65.35	PK	41	1.1	V	-3.62	61.73	74	12.27
1352.04	31.28	Ave.	41	1.1	V	-3.62	27.66	54	26.34
1128.35	61.08	PK	249	1.5	H	-5.43	55.65	74	18.35
1128.35	29.61	Ave.	249	1.5	H	-5.43	24.18	54	29.82
1128.35	61.77	PK	306	2.1	V	-5.43	56.34	74	17.66
1128.35	29.71	Ave.	306	2.1	V	-5.43	24.28	54	29.72

Adapter 3(Model: GQ06-050100-ZUU)

30 MHz~1 GHz:



Final_Result

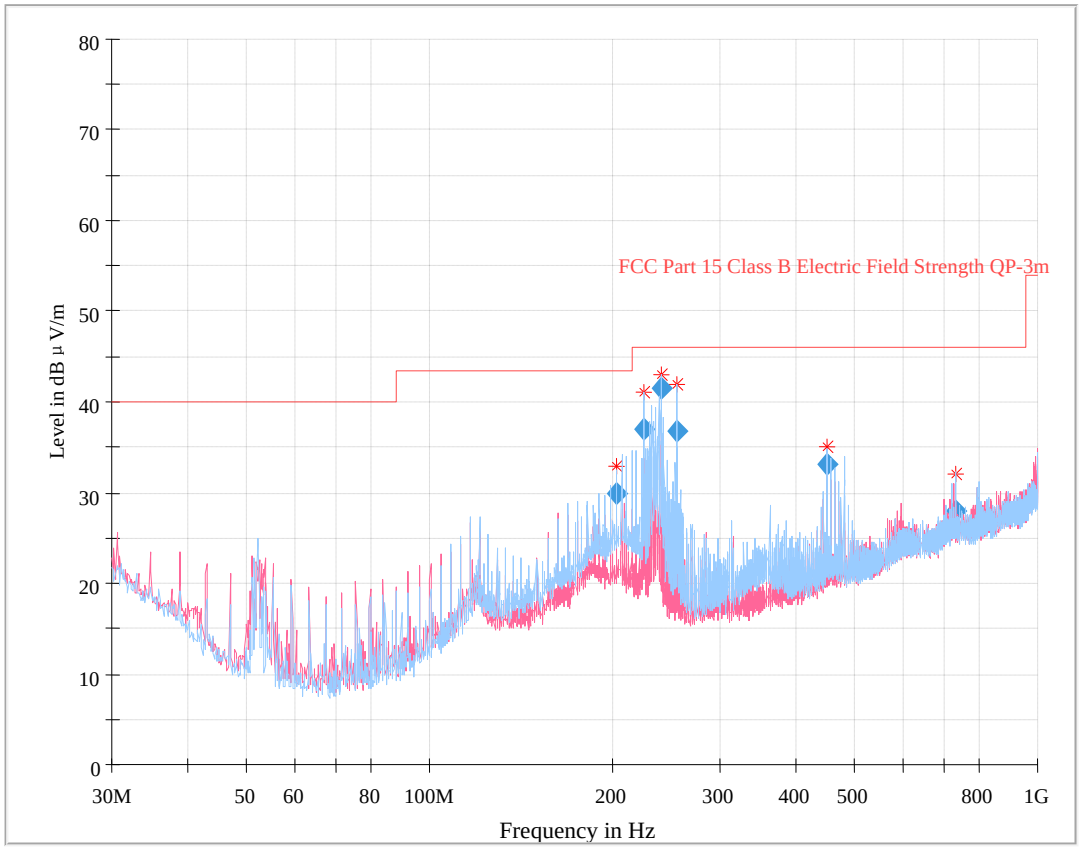
Frequency (MHz)	QuasiPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.106311	17.75	40.00	22.25	103.0	V	205.0	-4.5
42.632500	22.13	40.00	17.87	104.0	V	31.0	-12.5
47.771875	23.57	40.00	16.43	110.0	V	278.0	-15.5
50.808625	20.12	40.00	19.88	111.0	V	273.0	-16.5
756.606500	21.32	46.00	24.68	350.0	V	356.0	-0.1
835.570500	21.64	46.00	24.36	307.0	H	318.0	0.4

Above 1GHz:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBuV/m)	FCC Part 15B	
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H / V)			Limit (dBuV/m)	Margin (dB)
1354.78	59.14	PK	68	1.4	H	-3.62	55.52	74	18.48
1354.78	29.15	Ave.	68	1.4	H	-3.62	25.53	54	28.47
1354.78	64.76	PK	341	1.6	V	-3.62	61.14	74	12.86
1354.78	31.44	Ave.	341	1.6	V	-3.62	27.82	54	26.18
1129.40	61.12	PK	175	1.3	H	-5.43	55.69	74	18.31
1129.40	29.65	Ave.	175	1.3	H	-5.43	24.22	54	29.78
1129.40	61.05	PK	355	2.3	V	-5.43	55.62	74	18.38
1129.40	29.62	Ave.	355	2.3	V	-5.43	24.19	54	29.81

Test Mode 2

30 MHz~1 GHz:



Final_Result

Frequency (MHz)	QuasiPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
202.750750	29.88	43.50	13.62	168.0	H	13.0	-10.6
225.190625	37.09	46.00	8.91	119.0	H	169.0	-10.8
240.059125	41.44	46.00	4.56	137.0	H	204.0	-10.8
254.953750	36.70	46.00	9.30	130.0	H	164.0	-10.7
451.578750	33.16	46.00	12.84	102.0	H	315.0	-6.0
735.079750	28.03	46.00	17.97	102.0	H	133.0	-0.4

Above 1GHz:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBuV/m)	FCC Part 15B	
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H / V)			Limit (dBuV/m)	Margin (dB)
1264.11	52.34	PK	94	2.2	H	-4.51	47.83	74	26.17
1264.11	30.47	Ave.	94	2.2	H	-4.51	25.96	54	28.04
1264.11	55.26	PK	137	1.8	V	-4.51	50.75	74	23.25
1264.11	30.48	Ave.	137	1.8	V	-4.51	25.97	54	28.03
2412.60	54.43	PK	172	1.4	H	-0.36	54.07	74	19.93
2412.60	39.04	Ave.	172	1.4	H	-0.36	38.68	54	15.32
2412.60	56.07	PK	335	2.2	V	-0.36	55.71	74	18.29
2412.60	40.28	Ave.	335	2.2	V	-0.36	39.92	54	14.08

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 *******