



RF TEST REPORT

Report No.: SET2018-14118

Product Name: Gaming Headphone

FCC ID: 2ARXY-ARK200

Model No. : ARK200

Applicant: Tritton technology Beijing limited.

Address: B25-929, Ziyushanzhuang, Chaoyang District, Beijing, China.

Dates of Testing: 11/08/2018 — 11/26/2018

Issued by: CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.

Lab Location: Building 28/29, East of Shigu Xili Industrial Zone, Nanshan District
Shenzhen, Guangdong 518055, China

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Test Report

Product Name: Gaming Headphone

Brand Name: TRITTON

Trade Name: TRITTON

Applicant.....: Tritton technology Beijing limited.

Applicant Address.....: B25-929, Ziyushanzhuang, Chaoyang District, Beijing, China.

Manufacturer: Guizhou Laccess Electronic Technology Ltd.

Manufacturer Address: ZoneA, Dashui Economic Development Zone, Jinsha District, Bijie, GuiZhou, China.

Test Standards.....: 47 CFR Part 15 .249

Test Result: PASS

Tested by:

Shallwe Yang

2018.11.26

Shallwe Yang, Test Engineer

Reviewed by:

Chris You

2018.11.26

Chris You, Senior Engineer

Approved by:

Zhu Qi

2018.11.26

Zhu Qi, Manager



TABLE OF CONTENTS

RF TEST REPORT	1
1. GENERAL INFORMATION	4
1.1. EUT Description	4
1.2. Test Standards and Results	5
1.3. Table for Supporting Units	6
1.4. Facilities and Accreditations	6
2. 47 CFR PART 15C REQUIREMENTS	7
2.1. Antenna requirement	7
2.2. 20dB Bandwidth	8
2.3. Radiated Emission	11
2.4. Conducted Emission	20
3. LIST OF MEASURING EQUIPMENT	24

Change History		
Issue	Date	Reason for change
1.0	2018.11.26	First edition



1. General Information

1.1. EUT Description

EUT Type	Gaming Headphone
Hardware Version	MO-AT0028-IA2S4MUTX-HSRX-DS-V1.0
Software Version	BACH2TX_ARK200_IA2S6_MIC30_0920.bin
Frequency Range	2404~2476MHz
Channel Number	25
Bit Rate of Transmitter	2Mbps
Modulation Type	GFSK
Antenna Type	Internal Antenna
Antenna Gain	1.8dBi

Note 1: The EUT is a Gaming Headphone, it operating at 2.4GHz ISM band;

Note 2: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

Note 3: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.



1.2. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C, Section 15.249:

No.	Identity	Document Title
1	47 CFR Part 15 Subpart C 2017	Radio Frequency Devices
2	ANSI C63.10 2013	American National Standard for Testing Unlicensed Wireless Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section in CFR 47	Description	Result
1	15.203	Antenna Requirement	PASS
2	15.215(c)	20dB Bandwidth	PASS
3	15.207(a)	Conducted Emission	PASS
4	15.205 15.209 15.249(a)	Radiated Emission	PASS

The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.10-2013.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
0	2404	16	2452
1	2407	17	2455
2	2410	18	2458
3	2413	19	2461
4	2416	20	2464
5	2419	21	2467
6	2422	22	2470
7	2425	23	2473
8	2428	24	2476
9	2431		
10	2434		
11	2437		
12	2440		
13	2443		
14	2446		
15	2449		



Test Items	Modulation Type	Channel
20dB Bandwidth Conducted and Spurious Emission Radiated and Spurious Emission	GFSK	0/12/24
Band Edge(Restricted Band)	GFSK	0/24

1.3. Table for Supporting Units

No.	Equipment	Brand Name	Model Name	Manufacturer	Serial No.	Note
1	Notebook	DELL	PP11L	DELL	H5914A03	FCC DOC

1.4. Facilities and Accreditations

1.4.1. Facilities

CNAS-Lab Code: L1659

CCIC-SET is a third party testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659.

FCC-Registration No.: CN5031

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN5031, valid time is until December 31, 2018.

ISED Registration: 11185A-1

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until Aug. 03, 2019.

NVLAP Lab Code: 201008-0

CCIC-SET is a third party testing organization accredited by NVLAP according to ISO/IEC 17025. The accreditation certificate number is 201008-0.



1.4.2. Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15°C - 35°C
Relative Humidity (%):	30% -60%
Atmospheric Pressure (kPa):	86KPa-106KPa

2. 47 CFR Part 15C Requirements

2.1. Antenna requirement

2.1.1. Applicable Standard

According 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.

And according to FCC 47 CFR Section 15.247(c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

2.1.2. Antenna Information

Antenna Category: Internal Antenna

A internal Antenna was soldered to the antenna port of EUT via an adaptor cable, can't be removed.

Antenna General Information:

No.	EUT	Ant. Type	Gain(dBi)
1	Gaming Headphone	Internal	1.8

2.1.3. Result: comply

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

2.2. 20dB Bandwidth

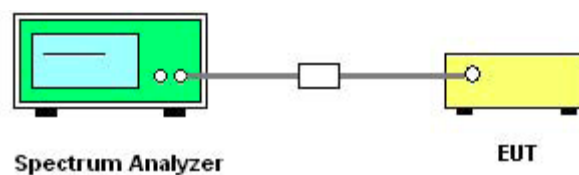
2.2.1. Limit of 20dB Bandwidth

Intentional radiators must be designed to ensure that 20dB bandwidth of the emission in the specific band.

2.2.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.2.3. Test Setup



2.2.4. Test Procedures

1. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 30 kHz.

Set the Video bandwidth (VBW) = 100 kHz.

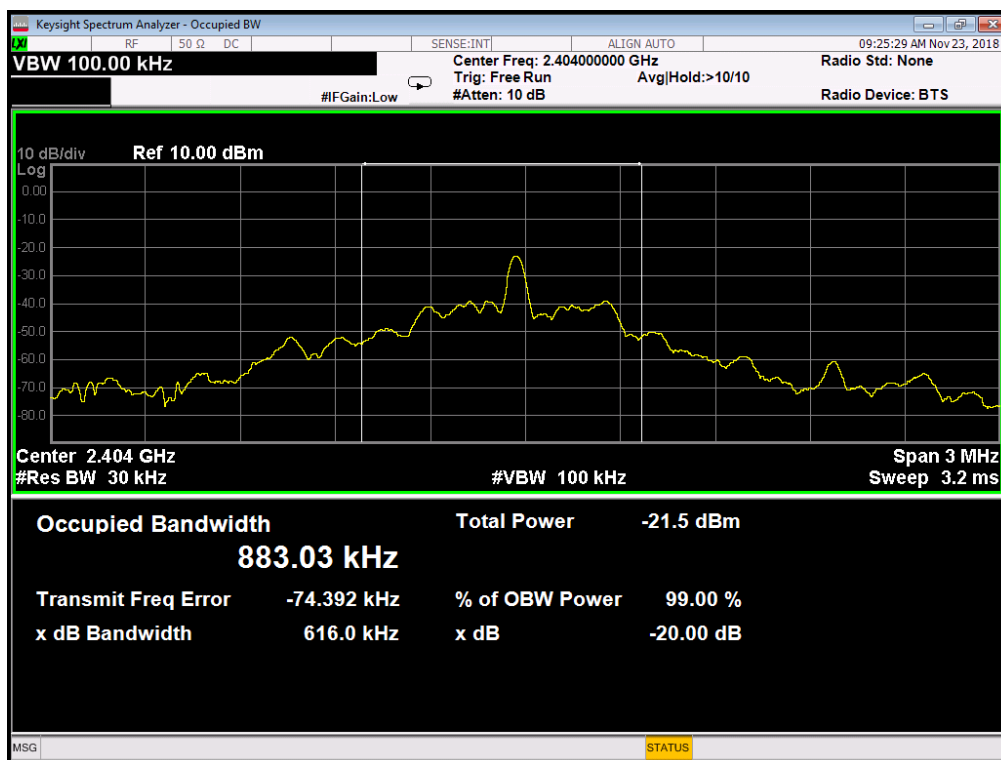
6. Measure and record the results in the test report.

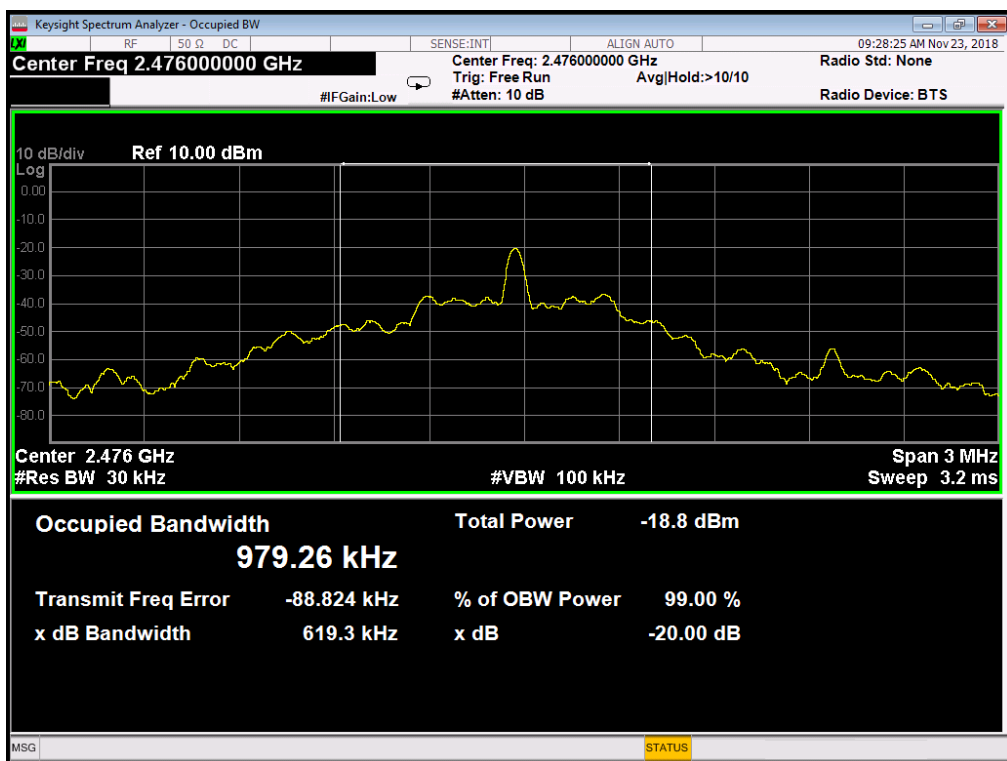
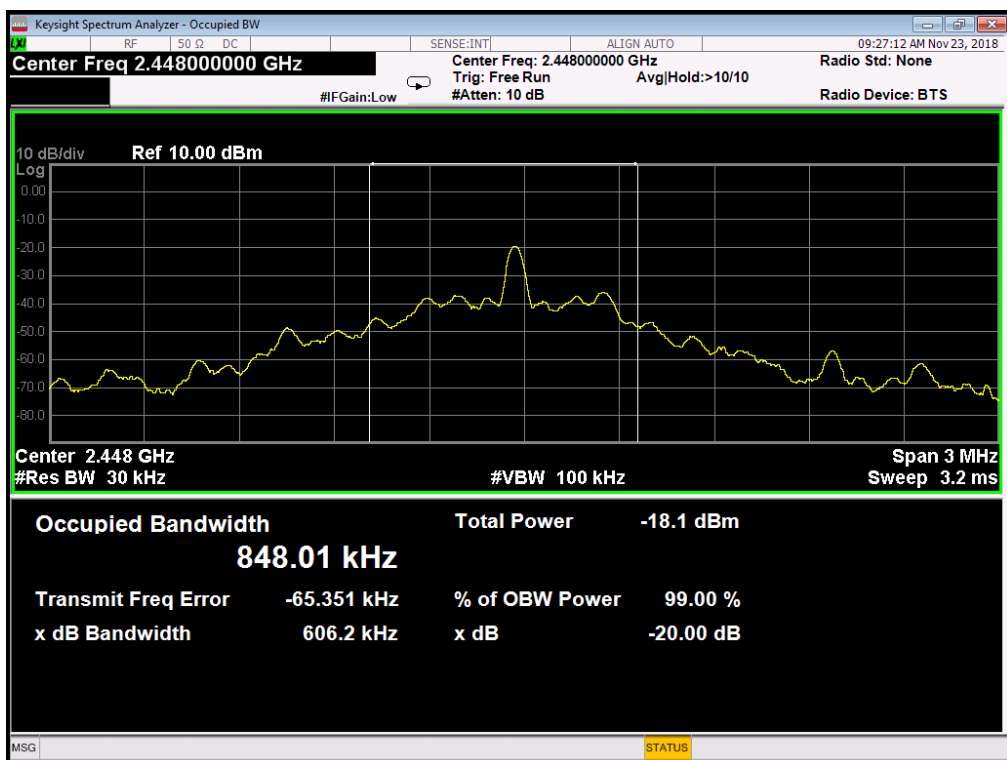


2.2.5. Test Results of 6dB Bandwidth

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
0	2404	0.616
12	2440	0.606
24	2476	0.619

2.2.6. Test Results (plots) of 20dB Bandwidth







2.3. Radiated Emission

2.3.1. Limit of Radiated Emission

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency (MHz)	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply.

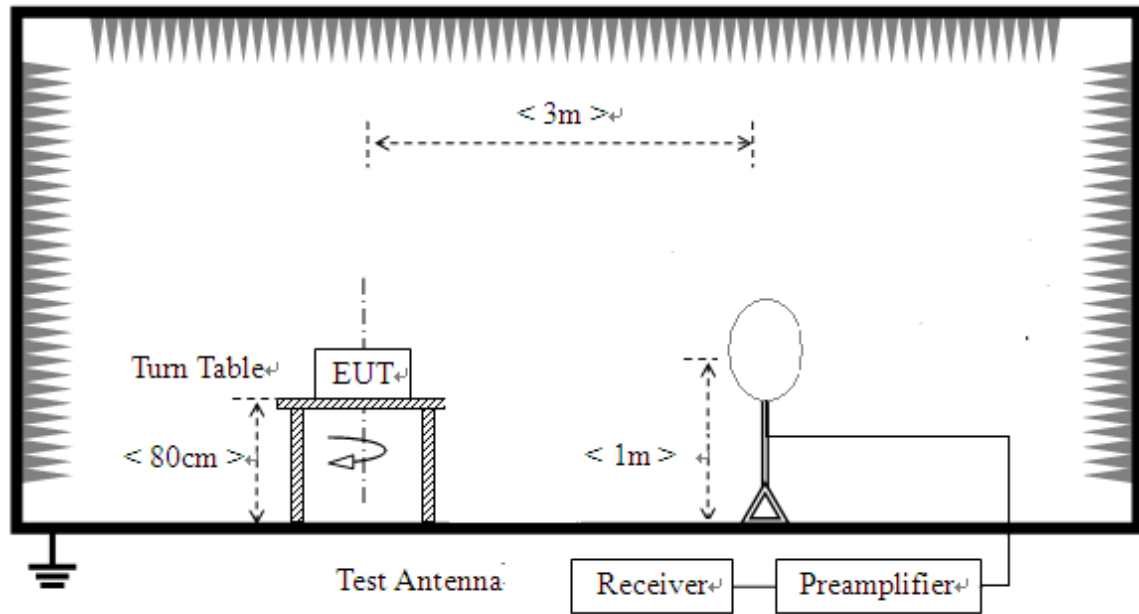
Note: Emission level(dBuV/m)=20log Emission level(uV/m)

2.3.2. Measuring Instruments

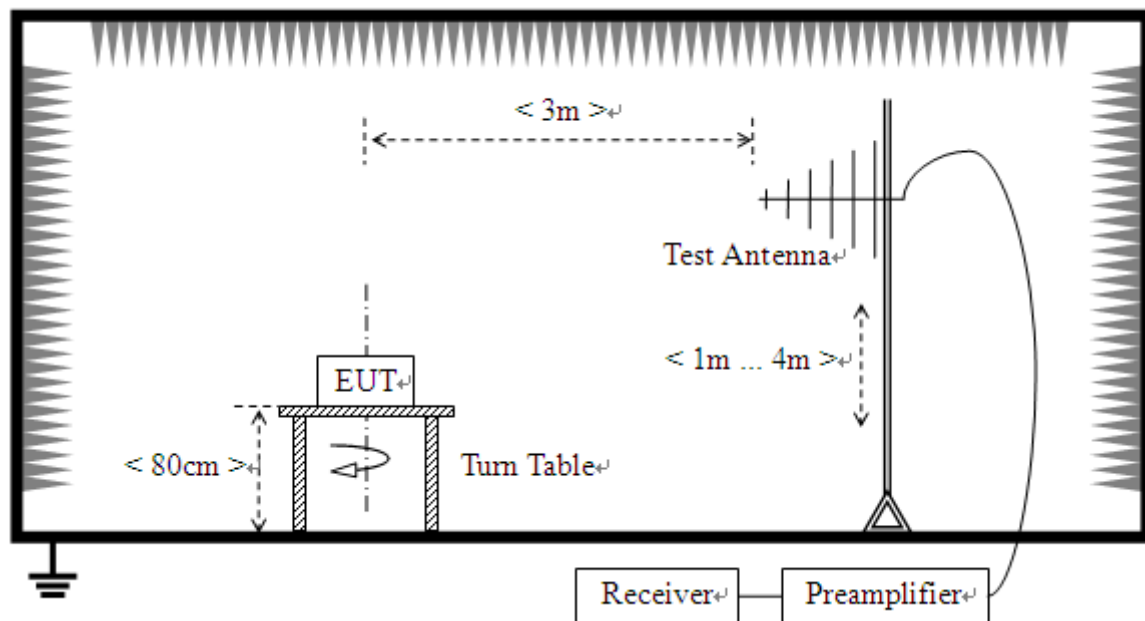
The measuring equipment is listed in the section 3 of this test report.

2.3.3. Test Setup

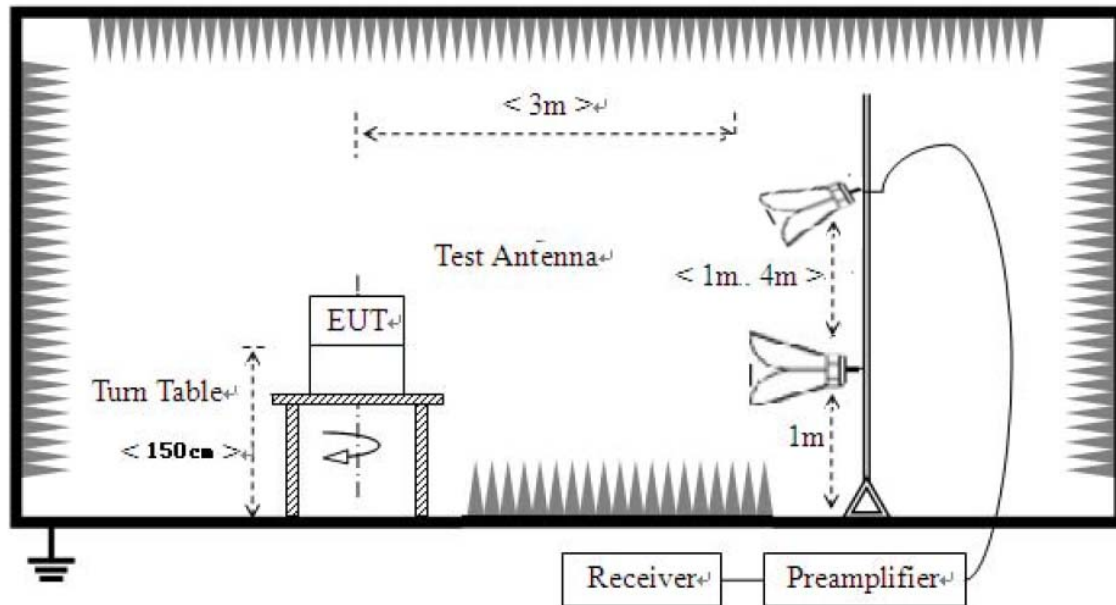
For radiated emissions from 9 KHz to 30 MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



2.3.4. Test Procedures

1. The EUT was placed on the top of a rotating table 0.8/1.5 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. Height of receiving antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported.

Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

7. For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

NOTE:

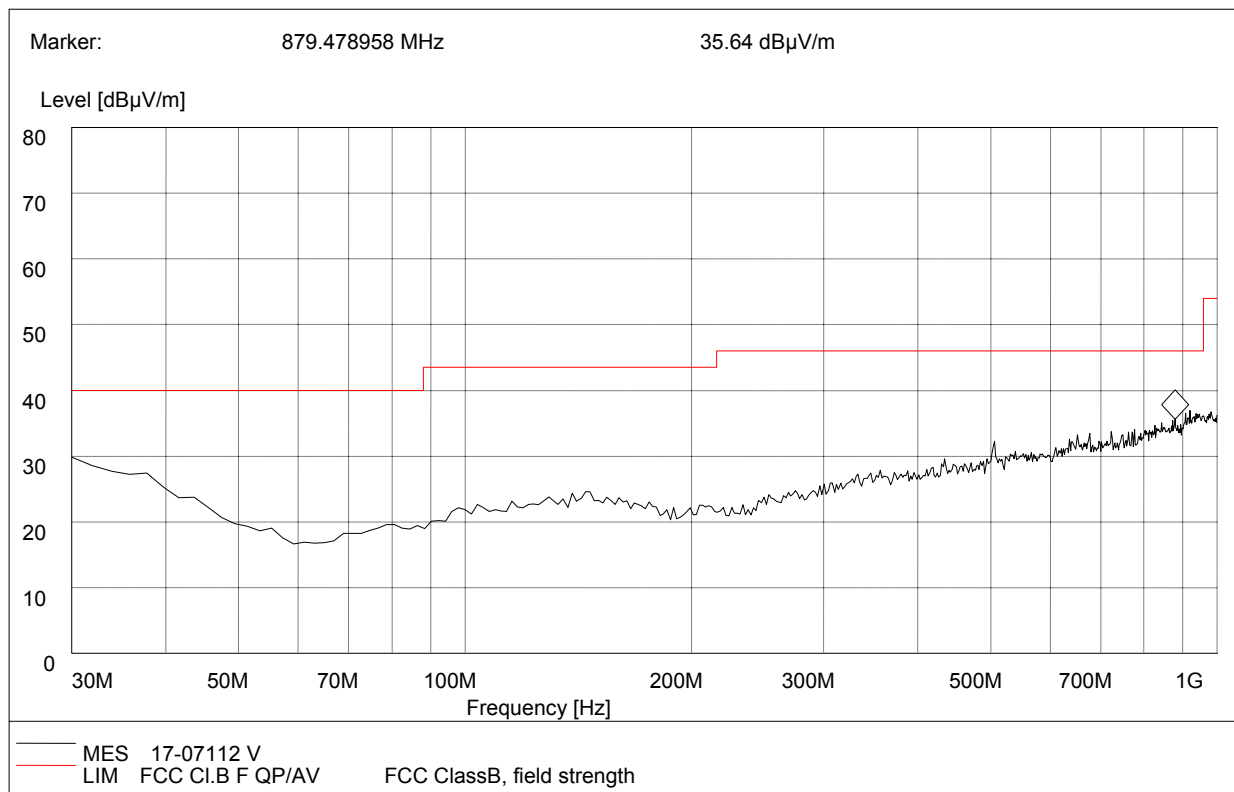
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

2.3.5. Test Results of Radiated Band Edge and Spurious Emission

For 9 kHz to 30MHz

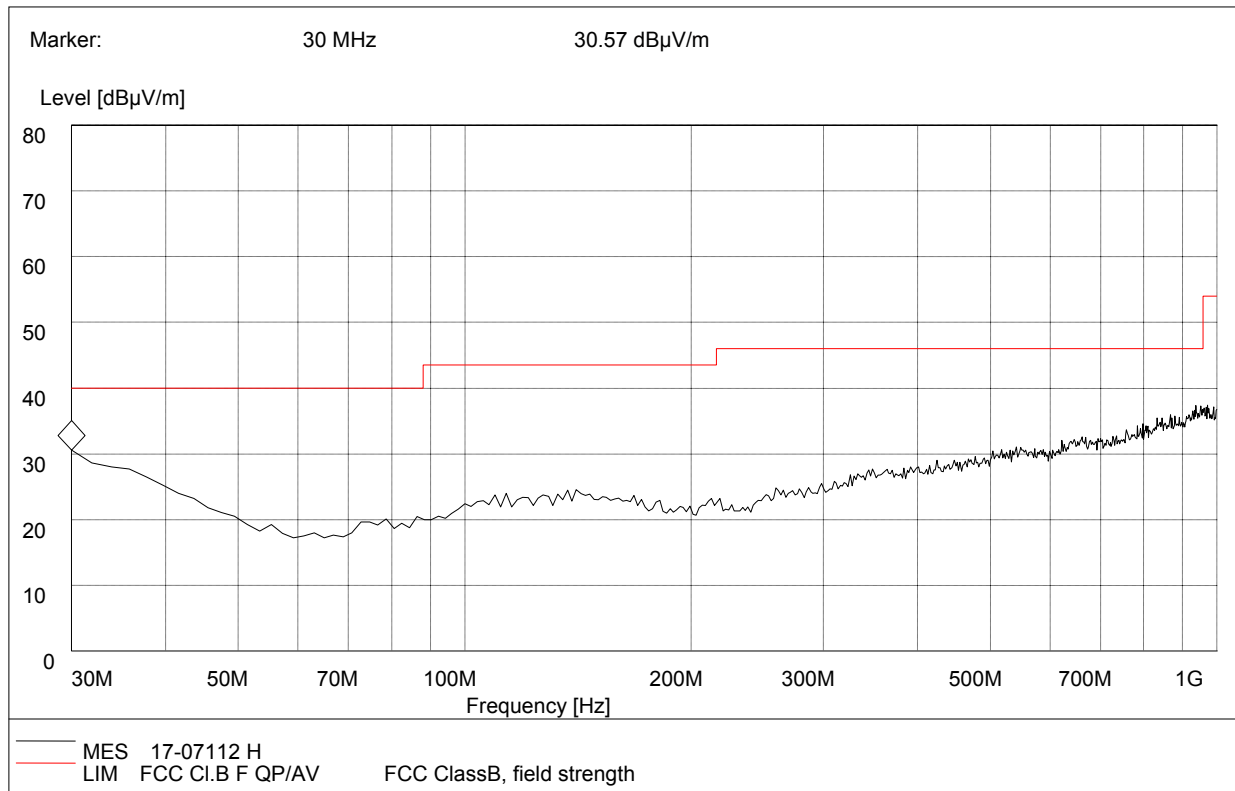
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

For 30MHz to 1000 MHz



30MHz to 1GHz, Antenna Vertical

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Cor. Factor	Antenna height (cm)	Limit (dB μ V/m)	Antenna	Verdict
30	30.64	120.000	28.87	150.0	40.0	Vertical	Pass
50	19.85	120.000	28.89	150.0	40.0	Vertical	Pass
109.18	23.48	120.000	29.15	150.0	40.0	Vertical	Pass
148.87	24.78	120.000	29.20	150.0	43.5	Vertical	Pass
503.50	31.65	120.000	29.8	150.0	46.0	Vertical	Pass
879.48	35.64	120.000	30.3	150.0	46.0	Vertical	Pass



30MHz to 1GHz, Antenna Horizontal

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Cor. Factor	Antenna height (cm)	Limit (dB μ V/m)	Antenna	Verdict
30.00	30.57	120.000	28.87	150.0	40.0	Horizontal	Pass
50.22	20.16	120.000	28.89	150.0	40.0	Horizontal	Pass
125.36	23.24	120.000	29.00	150.0	43.5	Horizontal	Pass
150.15	24.95	120.000	29.20	150.0	43.5	Horizontal	Pass
570.15	31.05	120.000	29.8	150.0	46.0	Horizontal	Pass
950.00	36.89	120.000	30.2	150.0	46.0	Horizontal	Pass



For 1GHz to 25 GHz

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (0CH_2404MHz)

No.	Fre. (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2390	45.47	PK	74.00	-28.53	2	360	44.17	5.2	28.60	32.5	1.3
2	2390	38.49	AV	54.00	-15.51	2	360	37.19	5.2	28.60	32.5	1.3
3	2406*	93.28	PK	114.00	-20.72	1.5	180	91.68	5.3	28.70	32.4	1.6
4	2406*	90.18	AV	94.00	-3.82	1.5	180	88.58	5.3	28.70	32.4	1.6
5	4812	46.25	PK	74.00	-27.75	1	0	39.85	7.4	30.40	31.4	6.4
6	4812	37.75	AV	54.00	-16.25	1	0	31.35	7.4	30.40	31.4	6.4
7	7218	46.28	PK	74.00	-27.72	1.5	0	36.98	9.9	31.50	32.1	9.3
8	7218	37.39	AV	54.00	-16.61	1.5	0	28.09	9.9	31.50	32.1	9.3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (0CH 2404MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2390	45.18	PK	74.00	-28.82	2	180	43.88	5.2	28.60	32.5	1.3
2	2390	36.53	AV	54.00	-17.47	2	180	35.23	5.2	28.60	32.5	1.3
3	2406*	87.74	PK	114.00	-26.26	1.5	180	86.14	5.3	28.70	32.4	1.6
4	2406*	86.03	AV	94.00	-7.97	1.5	180	84.43	5.3	28.70	32.4	1.6
5	4812	46.02	PK	74.00	-27.98	1	120	39.62	7.4	30.40	31.4	6.4
6	4812	37.52	AV	54.00	-16.48	1	120	31.12	7.4	30.40	31.4	6.4
7	7218	47.18	PK	74.00	-26.82	1	180	37.88	9.9	31.50	32.1	9.3
8	7218	39.04	AV	54.00	-14.96	1	180	29.74	9.9	31.50	32.1	9.3

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (19CH_2440MHz)

No.	Fre. (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2440*	94.85	PK	114.00	-19.15	1.5	180	92.75	5.4	28.7	32	2.1
2	2440*	90.15	AV	94.00	-3.85	1.5	180	88.05	5.4	28.7	32	2.1
3	4880	46.63	PK	74.00	-27.37	2	360	40.23	6.7	31.20	31.5	6.4
4	4880	38.43	AV	54.00	-15.57	2	360	32.03	6.7	31.20	31.5	6.4
5	7320	47.08	PK	74.00	-26.92	2	160	40.68	6.7	31.20	31.5	6.4
6	7320	37.50	AV	54.00	-16.5	2	160	31.1	6.7	31.20	31.5	6.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (19CH_2440MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2440*	86.39	PK	114.00	-27.61	1.5	180	84.29	5.4	28.7	32	2.1
2	2440*	84.71	AV	94.00	-9.29	1.5	180	82.61	5.4	28.7	32	2.1
3	4880	46.63	PK	74.00	-27.37	2	360	40.23	6.7	31.20	31.5	6.4
4	4880	38.43	AV	54.00	-15.57	2	360	32.03	6.7	31.20	31.5	6.4
5	7320	47.08	PK	74.00	-26.92	2	160	40.68	6.7	31.20	31.5	6.4
6	7320	37.50	AV	54.00	-16.5	2	160	31.1	6.7	31.20	31.5	6.4



ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (24CH_2476MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2476*	94.36	PK	114.00	-19.64	1.5	180	90.56	6.1	29.2	31.5	3.8
2	2476*	92.78	AV	94.00	-1.22	1.5	180	88.98	6.1	29.2	31.5	3.8
3	2483.5	45.87	PK	74.00	-28.13	1.5	180	42.47	5.7	29.50	31.8	3.4
4	2483.5	38.38	AV	54.00	-15.62	1.5	180	34.98	5.7	29.50	31.8	3.4
5	4952	45.78	PK	74.00	-28.22	1.5	360	40.23	7	30.05	31.5	5.55
6	4952	37.53	AV	54.00	-16.47	1.5	360	31.98	7	30.05	31.5	5.55
7	7428	45.19	PK	74.00	-28.81	1.5	270	29.99	16	31.20	32	15.2
8	7428	37.21	AV	54.00	-16.79	1.5	270	22.01	16	31.20	32	15.2

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (24CH_2476MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2476*	91.60	PK	114.00	-22.4	1.5	180	87.8	6.1	29.2	31.5	3.8
2	2476*	89.03	AV	94.00	-4.97	1.5	180	85.23	6.1	29.2	31.5	3.8
3	2483.5	46.69	PK	74.00	-27.31	2	180	43.29	5.7	29.50	31.8	3.4
4	2483.5	38.44	AV	54.00	-15.56	2	180	35.04	5.7	29.50	31.8	3.4
5	4952	45.57	PK	74.00	-28.43	1.5	360	40.02	7	30.05	31.5	5.55
6	4952	38.09	AV	54.00	-15.91	1.5	360	32.54	7	30.05	31.5	5.55
7	7428	46.29	PK	74.00	-27.71	1	360	31.09	16	31.20	32	15.2
8	7428	38.31	AV	54.00	-15.69	1	360	23.11	16	31.20	32	15.2

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
- Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level - Limit value
5. " * ": Fundamental frequency.

2.4. Conducted Emission

2.4.1. Limit of Conducted Emission

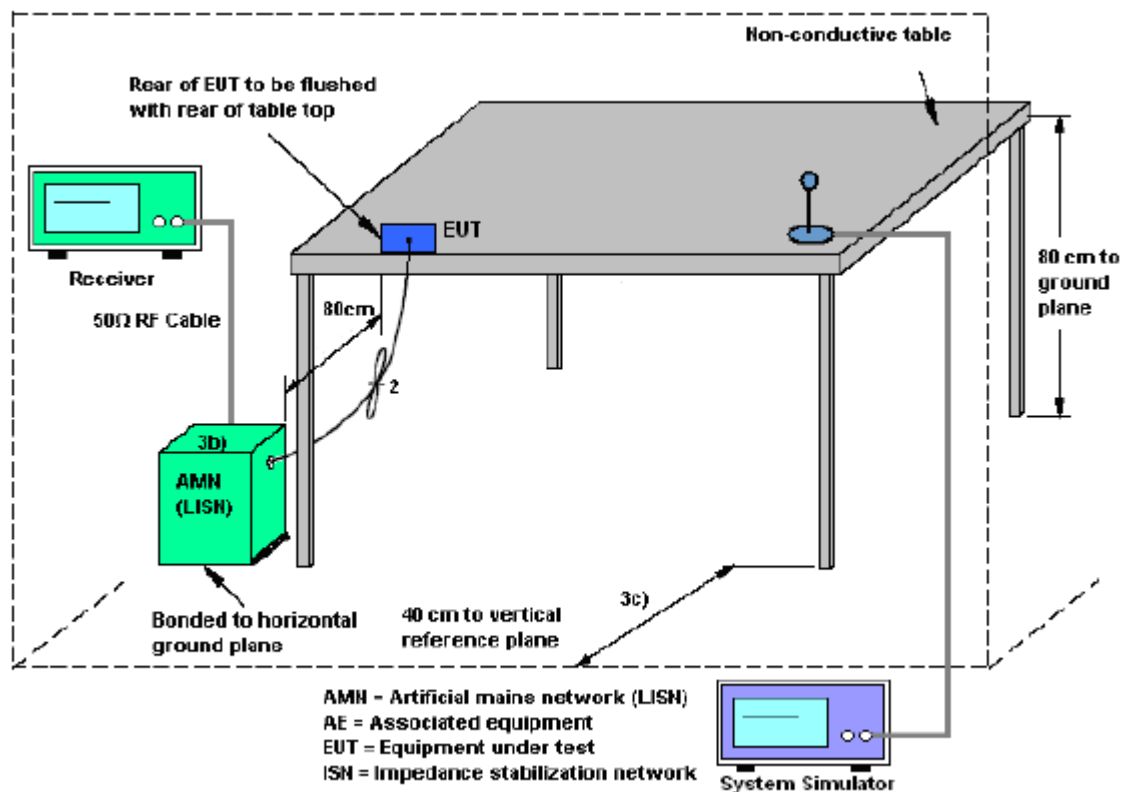
For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

2.4.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.4.3. Test Setup

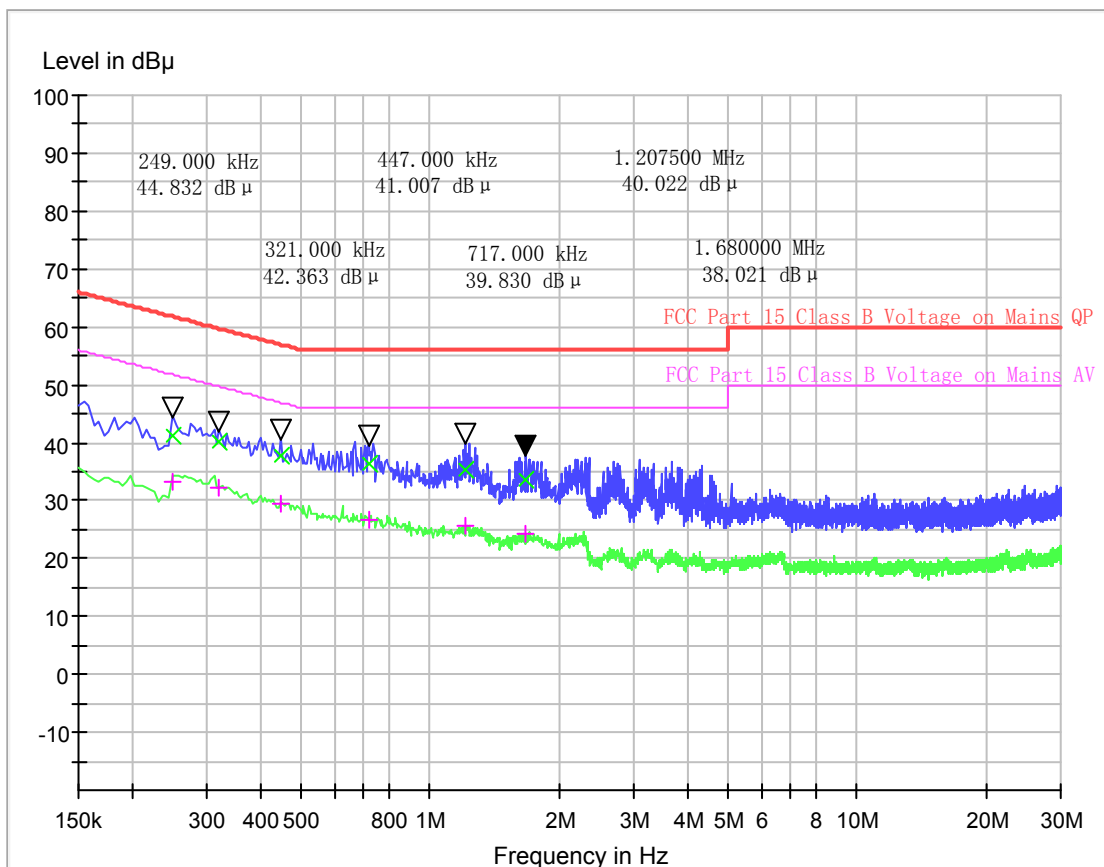


2.4.4. Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 micrometry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

2.4.5. Test Results of Conducted Emission

1. The EUT configuration of the emission tests is Tx Mode + USB (Charging)

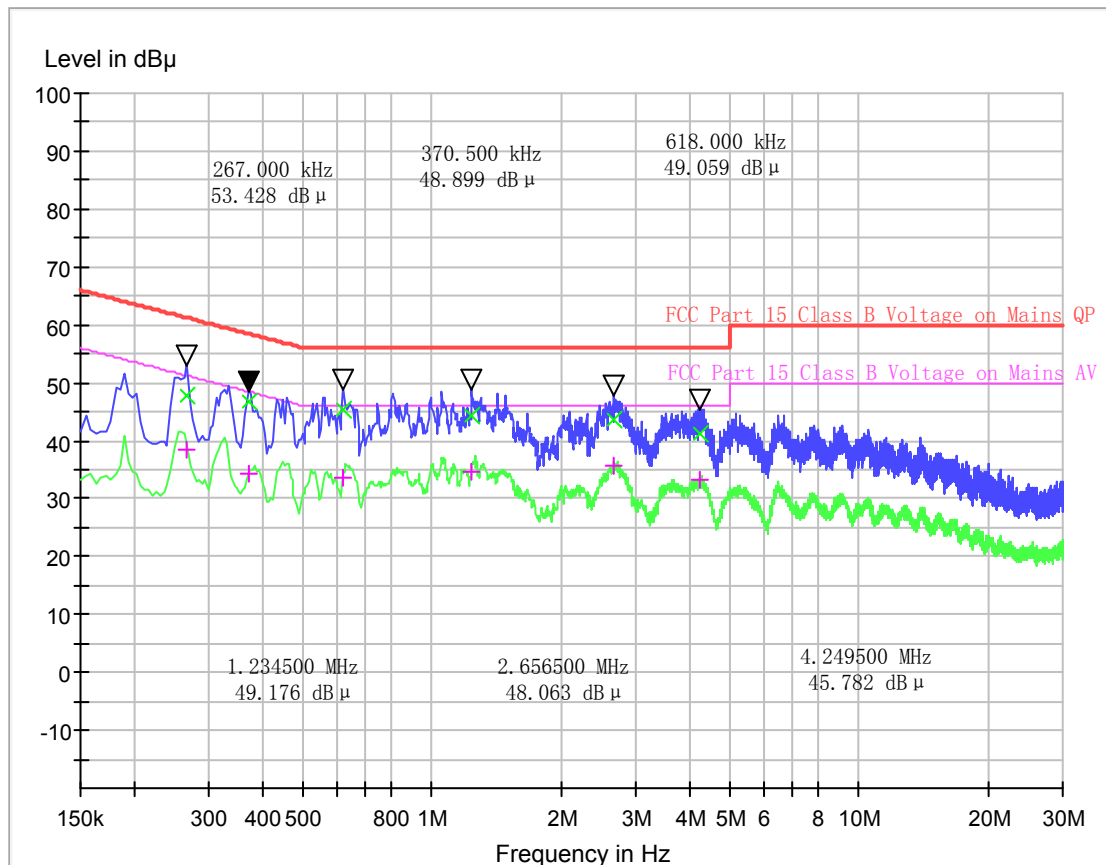


(Plot A: L Phase)

Conducted Disturbance at Mains Terminals

L Test Data

QP					AV		
Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Cable Loss (dB)	Cor. Factor (dB)	Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)
0.249000	61.8	41.37	0.2	20.2	0.249000	61.8	33.28
0.321000	59.7	40.22	0.2	20.5	0.321000	59.7	32.27
0.447000	56.9	37.79	0.3	20.4	0.447000	56.9	29.43
0.717000	56.0	36.41	0.4	20.2	0.717000	56.0	26.77
1.207500	56.0	35.46	0.2	20.1	1.207500	56.0	25.68
1.680000	56.0	33.46	0.2	20.2	1.680000	56.0	24.10



(Plot B: N Phase)

Conducted Disturbance at Mains Terminals

N Test Data

QP					AV		
Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Cable Loss (dB)	Cor. Factor (dB)	Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)
0.267000	61.2	47.82	0.2	20.2	0.267000	51.2	38.47
0.370500	58.5	46.90	0.2	20.2	0.370500	48.5	34.39
0.618000	56.0	45.35	0.3	20.5	0.618000	46.0	33.60
1.234500	56.0	44.43	0.4	20.3	1.234500	46.0	34.55
2.656500	56.0	43.57	0.2	20.2	2.656500	46.0	35.55
4.249500	56.0	41.22	0.2	20.2	4.249500	46.0	33.13

Test Result: PASS



3. List of measuring equipment

Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal
1	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	11/11/2018
2	EMI TEST RECEIVER	Rohde&Schwarz	ESW26	101355	10/17/2018
3	EMI TEST Software	Audix	E3	N/A	N/A
4	TURNTABLE	ETS	2088	2149	N/A
5	ANTENNA MAST	ETS	2075	2346	N/A
6	EMI TEST Software	Rohde&Schwarz	ESK1	N/A	N/A
7	HORNANTENNA	ShwarzBeck	9120D	9120D-1864	04/27/2018
8	Amplifer	Sonoma	310N	E009-13	11/11/2018
9	JS amplifer	Rohde&Schwarz	JS4-00101800-28-5A	F201504	11/11/2018
10	High pass filter	Compliance Direction systems	BSU-6	34202	11/11/2018
11	HORNANTENNA	ShwarzBeck	9120D	1012	11/11/2018
12	Amplifer	Compliance Direction systems	PAP1-4060	120	11/11/2018
13	Loop Antenna	Rohde&Schwarz	HFH2-Z2	100020	11/11/2018
14	TURNTABLE	MATURO	TT2.0	----	N/A
15	ANTENNA MAST	MATURO	TAM-4.0-P	----	N/A
16	Horn Antenna	SCHWARZBECK	BBHA9170	25841	11/11/2018
17	ULTRA-BROADBAND ANTENNA	Rohde&Schwarz	HL562	100015	11/11/2018

Maximum Peak Output Power / Power Spectral Density / 6dB Bandwidth / Band Edge Compliance of RF Emission / Spurious RF Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal
1	Spectrum Analyzer	Rohde&Schwarz	FSP	1164.4391.40	11/11/2018
2	Spectrum Analyzer	Keysight	N9030A	ATO-67098	10/08/2018
3	Power Meter	Anritsu	ML2480B	100798	11/11/2018
4	Power Sensor	Anritsu	MA2411B	100258	11/11/2018

The calibration interval was one year.

**** END OF REPORT ****