FCC PART 15 SUBPART C TEST REPORT

FCC PART 15.247

Report Reference No.....: GTS20220905013-1-8 FCC ID.....:: **2AG62AMP-200BT**

Compiled by

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Oct.18, 2022 Date of issue:

Representative Laboratory Name.: Shenzhen Global Test Service Co.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Address:

Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu

Street, Longgang District, Shenzhen, Guangdong, China

Lumi Legend Corporation Applicant's name.....

22/F., Building 1, Lisi Plaza, Huifeng East Road, Ningbo, China Address:

315100

Test specification:

Standard FCC Part 15.247

TRF Originator...... Shenzhen Global Test Service Co.,Ltd.

Master TRF Dated 2014-12

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Test item description: 200 WATT CLASS D BLUETOOTH aptX STEREO AMPLIFIER

Trade Mark: N/A

Manufacturer: Lumi Legend Corporation

Model/Type reference AMP-200BT

Listed Models AMP-100BT, AMP-110BT, AMP-160BT, AMP-130BT, MAB-1,

AMP-180BT, AMP-220BT, AMP-230BT, AMP-270BT

Modulation Type....: **GFSK**

Operation Frequency.....: From 2402MHz to 2480MHz

Hardware Version: N/A Software Version: N/A

Rating DC 18-36V,150W

Result: **PASS** Report No.: GTS20220905013-1-8 Page 2 of 24

TEST REPORT

Test Report No. :	GTS20220905013-1-8	Oct.18, 2022
rest Report No	G1320220903013-1-0	Date of issue

Equipment under Test : 200 WATT CLASS D BLUETOOTH aptX STEREO AMPLIFIER

Model /Type AMP-200BT

Listed model AMP-100BT, AMP-110BT, AMP-160BT, AMP-130BT, MAB-1,

AMP-180BT, AMP-220BT, AMP-230BT, AMP-270BT

Lumi Legend Corporation Applicant

22/F., Building 1, Lisi Plaza, Huifeng East Road, Ningbo, China Address

315100

Manufacturer **Lumi Legend Corporation**

22/F., Building 1, Lisi Plaza, Huifeng East Road, Ningbo, China Address

315100

Test Result:	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. TEST STANDARDS

The tests were performed according to following standards:

<u>FCC Rules Part 15.247</u>: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz. <u>ANSI C63.10-2013</u>: American National Standard for Testing Unlicensed Wireless Devices <u>KDB 558074 D01 DTS Meas Guidance v05r02</u>: Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247.

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2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	Sep.15, 2022
Testing commenced on	:	Sep.15, 2022
Testing concluded on	:	Oct.17, 2022

2.2. Product Description

Product Name	200 WATT CLASS D BLUETOOTH aptX STEREO AMPLIFIER
Trade Mark	N/A
Model/Type reference	AMP-200BT
List Models	AMP-100BT, AMP-110BT, AMP-160BT, AMP-130BT, MAB-1, AMP-180BT, AMP-220BT, AMP-230BT, AMP-270BT
Model Declaration	PCB board, structure and internal of these model(s) are the same, Only the model name different, So no additional models were tested.
Power supply:	DC 18-36V,150W
Sample ID	GTS20220905013-1-S0001-1#& GTS20220905013-1-S0001-2#
Bluetooth	
Operation frequency	2402-2480MHz
Channel Number	79 channels for Bluetooth (DSS) 40 channels for Bluetooth (DTS)
Channel Spacing	1MHz for Bluetooth (DSS) 2MHz for Bluetooth (DTS)
Modulation Type	GFSK, π/4-DQPSK, 8DPSK for Bluetooth (DSS) GFSK for Bluetooth (DTS)
Antenna Description	External Antenna, 2.00dBi(Max.) for 2.4G Band

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2.3. Equipment Under Test

Power supply system utilised

Power supply voltage	:	0	230V / 50 Hz	0	120V / 60Hz
		0	12 V DC	•	24 V DC
		0	Other (specified in blank below)		

DC 24.0V

2.4. Short description of the Equipment under Test (EUT)

This is a 200 WATT CLASS D BLUETOOTH aptX STEREO AMPLIFIER For more details, refer to the user's manual of the EUT.

2.5. EUT operation mode

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing .There are 40 channels provided to the EUT. Channel 00/19/39 was selected to test.

Mode of Operations	Frequency Range (MHz)	Data Rate (Mbps)		
	2402	1		
(BLE)	2440	1		
	2480	1		
For Conducted Emission				
Test Mode		TX Mode		
For Radiated Emission				
Test Mode		TX Mode		

Channel	Frequency(MHz)	Channel	Frequency(MHz)
0	2402	20	2442
1	2404	21	2444
2	2406	22	2446
18	2438	38	2478
19	2440	39	2480

The EUT has been tested under operating condition.

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.

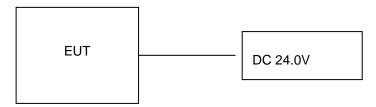
AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/60Hz modes, recorded worst case.

Worst-case mode and channel used for 150 KHz-30 MHz power line conducted emissions was the mode and channel with the highest output power, which was determined to be BT LE mode (MCH).

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be BT LE mode(MCH).

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2.6. Block Diagram of Test Setup



2.7. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software (InstallBlueSuiteCda_3_3_14_1471) provided by application.

2.8. Special Accessories

Manufacturer	Description	Model	Serial Number	Certificate
Shenzhen Juyuanhai Electronic Co.,Ltd.	Adapter	JYH5Z-2400400-BF	1	SDOC
Instek	Audio Signal Generator	GAG-809	-	SDOC

Note: The Audio Signal Generator is only used for auxiliary testing.

2.9. External I/O Cable

I/O Port Description	Quantity	Cable
DC IN Port	1	1.2M, Unscreened Cable
AV Port	6	N/A

2.10. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2AG62AMP-200BT** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.11. Modifications

No modifications were implemented to meet testing criteria.

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3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong, China.

3.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L8169)

Shenzhen Global Test Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2019 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA (Certificate No. 4758.01)

Shenzhen Global Test Service Co., Ltd. has been assessed by the American Association for Laboratory Accreditation (A2LA). Certificate No. 4758.01.

Industry Canada Registration Number. is 24189.

FCC Designation Number is CN1234.

FCC Registered Test Site Number is165725.

3.3. Environmental conditions

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

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

3.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen Global Test Service Co.,Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen GTS laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)

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

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3.5. Test Description

Applied Standard: FCC Part 15 Subpart C							
FCC Rules	Description of Test	Test Sample	Result	Remark			
/	On Time and Duty Cycle	GTS20220905013-1- S0001-1#	/	/			
§15.247(b)	Maximum Conducted Output Power	GTS20220905013-1- S0001-1#	Compliant	Appendix B			
§15.247(e)	Power Spectral Density	GTS20220905013-1- S0001-1#	Compliant	Appendix B			
§15.247(a)(2)	6dB Bandwidth	GTS20220905013-1- S0001-1#	Compliant	Appendix B			
§2.1047	99% Occupied Bandwidth	GTS20220905013-1- S0001-1#	Compliant	Appendix B			
§15.209, §15.247(d)	Conducted Spurious Emissions and Band Edges Test	GTS20220905013-1- S0001-1#	Compliant	Appendix B			
§15.209, §15.247(d)	Radiated Spurious Emissions	GTS20220905013-1- S0001-1# GTS20220905013-1- S0001-2#	Compliant	Note 1			
§15.205	Emissions at Restricted Band	GTS20220905013-1- S0001-1#	Compliant	Note 1			
§15.207(a)	AC Conducted Emissions	GTS20220905013-1- S0001-2#	Compliant	Note 1			
§15.203 §15.247(c)	Antenna Requirements	GTS20220905013-1- S0001-1#	Compliant	Note 1			
§15.247(i)§2.1 091	RF Exposure	/	Compliant	Note 2			

Remark:

- The measurement uncertainty is not included in the test result. $NA = Not \ Applicable; \ NP = Not \ Performed$ 1.
- 2.
- Note 1 Test results inside test report; 3.
- Note 2 Test results in other test report (MPE Report). 4.
- We tested all test mode and recorded worst case in report 5.

3.6. Equipments Used during the Test

O/O RF Cable(below 1GHz) HUBER+SUHNE R RG214 RE01 2022/07/13 2023/07/12 RF Cable(above 1GHz) HUBER+SUHNE R RG214 RE02 2022/07/13 2023/07/12 Data acquisition card Agilent U2531A TW53323507 2022/07/13 2023/07/12 Power Sensor Agilent U2021XA MY5365004 2022/07/13 2023/07/12 Test Control Unit Tonscend JS0806-1 178060067 2022/07/13 2023/07/12 Automated filter bank Tonscend JS0806-F 19F8060177 2022/07/13 2023/07/12 EMI Test Software Tonscend JS1120-1 Ver 2.6.8.0518 / / EMI Test Software Tonscend JS1120-3 Ver 2.5.77.0418 / /						
LISN	Test Equipment	Manufacturer	Model No.	Serial No.		
EMI Test Receiver R&S ESPI3 101841-cd 2022/07/13 2023/07/12 EMI Test Receiver R&S ESCI7 101102 2022/09/09 2023/09/08 Spectrum Analyzer Agilent N9020A MY48010425 2022/09/09 2023/09/08 Spectrum Analyzer R&S FSV40 100019 2022/07/13 2023/07/12 Vector Signal generator Agilent N5181A MY49060502 2022/07/13 2023/09/08 Cilimate Chamber ESPEC EL-10KA A20120523 2022/09/09 2023/09/08 Controller EM Electronics Controller EM 1000 N/A N/A N/A Hom Antenna Schwarzbeck BBHA 9120D 01622 2022/09/09 2023/09/08 Active Loop Antenna Schwarzbeck VULB9163 000976 2022/09/09 2023/09/08 Bilog Antenna Schwarzbeck BBHA 9170 791 2022/07/13 2023/09/08 Amplifier Schwarzbeck BBV9743 #202 2022/07/13 2023/09/08 Amplifie	LISN	CYBERTEK	EM5040A	E1850400105	2022/07/13	2023/07/12
EMI Test Receiver	LISN	R&S	ESH2-Z5	893606/008	2022/07/13	2023/07/12
Spectrum Analyzer	EMI Test Receiver	R&S	ESPI3	101841-cd	2022/07/13	2023/07/12
Spectrum Analyzer	EMI Test Receiver	R&S	ESCI7	101102	2022/09/09	2023/09/08
Vector Signal generator generator Agilent generator N5181A MY49060502 2022/07/13 2023/07/12 Signal generator Agilent N5182A 3610AO1069 2022/09/09 2023/09/08 Climate Chamber ESPEC EL-10KA A20120523 2022/09/09 2023/09/08 Controller EM Electronics Controller EM 1000 N/A N/A N/A Horn Antenna Schwarzbeck BBHA 9120D 01622 2022/09/09 2023/09/08 Active Loop Antenna Beijing Da Ze Technology Co., Ltd. 2N30900C 15006 2022/09/09 2023/09/08 Bilog Antenna Schwarzbeck VULB9163 000976 2022/07/13 2023/09/08 Broadband Horn Antenna SCHWARZBECK BBHA 9170 791 2022/09/09 2023/09/08 Amplifier Schwarzbeck BBV 9743 #202 2022/07/13 2023/07/12 Amplifier Schwarzbeck BBV9179 9719-025 2022/07/13 2023/07/12 Temperature/Humidi ty Meter Gangxing CTH-608 02 2022/07/13<	Spectrum Analyzer	Agilent	N9020A	MY48010425	2022/09/09	2023/09/08
Signal generator Agilent N5181A W14900902 2022/07/13 2023/07/12	Spectrum Analyzer	R&S	FSV40	100019	2022/07/13	2023/07/12
Climate Chamber ESPEC EL-10KA A20120523 2022/09/09 2023/09/08 Controller EM Electronics Controller EM 1000 N/A N/A N/A N/A Horn Antenna Schwarzbeck BBHA 9120D 01622 2022/09/09 2023/09/08 Active Loop Antenna Beijing Da Ze Technology Co.,Ltd. ZN30900C 15006 2022/09/09 2023/09/08 Bilog Antenna Schwarzbeck VULB9163 000976 2022/09/09 2023/09/08 Amplifier Schwarzbeck BBHA 9170 791 2022/09/09 2023/09/08 Amplifier Schwarzbeck BBV 9743 #202 2022/07/13 2023/07/12 Amplifier Schwarzbeck BBV9179 9719-025 2022/07/13 2023/07/12 Amplifier EMCI EMC051845B 980355 2022/07/13 2023/07/12 Temperature/Humidi ty Meter K&L 2700/X12750- 0/0 KL142031 2022/07/13 2023/07/12 High-Pass Filter K&L 1375/U12750- 0/0 KL142031 2022/07/13 <td< td=""><td></td><td>Agilent</td><td>N5181A</td><td>MY49060502</td><td>2022/07/13</td><td>2023/07/12</td></td<>		Agilent	N5181A	MY49060502	2022/07/13	2023/07/12
Controller EM Electronics Controller EM 1000 N/A N/A N/A Horn Antenna Schwarzbeck BBHA 9120D 01622 2022/09/09 2023/09/08 Active Loop Antenna Beijing Da Ze Technology Technology Co.,Ltd. ZN30900C 15006 2022/09/09 2023/09/08 Bilog Antenna Schwarzbeck VULB9163 000976 2022/07/13 2023/09/08 Amplifier Schwarzbeck BBHA 9170 791 2022/09/09 2023/09/08 Amplifier Schwarzbeck BBV 9743 #202 2022/07/13 2023/07/12 Amplifier Schwarzbeck BBV9179 9719-025 2022/07/13 2023/07/12 Amplifier EMCI EMC051845B 980355 2022/07/13 2023/07/12 Temperature/Humidi ty Meter Gangxing CTH-608 02 2022/07/13 2023/07/12 High-Pass Filter K&L 2700/X12750- 0/0 KL142031 2022/07/13 2023/07/12 RF Cable(below 1GHz) R RG214 RE01 2022/07/13 2023/07/12	Signal generator	Agilent	N5182A	3610AO1069	2022/09/09	2023/09/08
Horn Antenna	Climate Chamber	ESPEC	EL-10KA	A20120523	2022/09/09	2023/09/08
Active Loop Antenna Beijing Da Ze Technology Co., Ltd. ZN30900C 15006 2022/09/09 2023/09/08 Bilog Antenna Schwarzbeck VULB9163 000976 2022/07/13 2023/07/12 Broadband Horn Antenna SCHWARZBECK BBHA 9170 791 2022/09/09 2023/09/08 Amplifier Schwarzbeck BBV 9743 #202 2022/07/13 2023/07/12 Amplifier Schwarzbeck BBV9179 9719-025 2022/07/13 2023/07/12 Amplifier EMCI EMC051845B 980355 2022/07/13 2023/07/12 Temperature/Humidi ty Meter Gangxing CTH-608 02 2022/07/13 2023/07/12 High-Pass Filter K&L 2700/X12750- O/O KL142031 2022/07/13 2023/07/12 RF Cable(below 1GHz) HUBER+SUHNE R RG214 RE01 2022/07/13 2023/07/12 Pata acquisition card Agilent U2531A TW53323507 2022/07/13 2023/07/12 Power Sensor Agilent U2021XA MY5365004 2022/07/13	Controller	EM Electronics		N/A	N/A	N/A
Active Loop Antenna Technology Co.,Ltd. ZN30900C 15006 2022/09/09 2023/09/08 Bilog Antenna Schwarzbeck VULB9163 000976 2022/07/13 2023/07/12 Broadband Horn Antenna SCHWARZBECK BBHA 9170 791 2022/09/09 2023/09/08 Amplifier Schwarzbeck BBV 9743 #202 2022/07/13 2023/07/12 Amplifier Schwarzbeck BBV9179 9719-025 2022/07/13 2023/07/12 Amplifier EMCI EMC051845B 980355 2022/07/13 2023/07/12 Temperature/Humidi ty Meter Gangxing CTH-608 02 2022/07/13 2023/07/12 High-Pass Filter K&L 2700/X12750- 0/O KL142031 2022/07/13 2023/07/12 RF Cable(below 1GHz) HUBER+SUHNE R RG214 RE01 2022/07/13 2023/07/12 RF Cable(above 1GHz) HUBER+SUHNE R RG214 RE02 2022/07/13 2023/07/12 Data acquisition card Agilent U2531A TW53323507 2022/07/13 2023/07/	Horn Antenna	Schwarzbeck	BBHA 9120D	01622	2022/09/09	2023/09/08
Broadband Horn Antenna SCHWARZBECK BBHA 9170 791 2022/09/09 2023/09/08 Amplifier Schwarzbeck BBV 9743 #202 2022/07/13 2023/07/12 Amplifier Schwarzbeck BBV9179 9719-025 2022/07/13 2023/07/12 Amplifier EMCI EMC051845B 980355 2022/07/13 2023/07/12 Temperature/Humidi ty Meter Gangxing CTH-608 02 2022/07/13 2023/07/12 High-Pass Filter K&L 9SH10- 2700/X12750- 0/O KL142031 2022/07/13 2023/07/12 RF Cable(below 1GH2) HUBER+SUHNE R RG214 RE01 2022/07/13 2023/07/12 RF Cable(above 1GH2) HUBER+SUHNE R RG214 RE02 2022/07/13 2023/07/12 Data acquisition card Agilent U2531A TW53323507 2022/07/13 2023/07/12 Power Sensor Agilent U2021XA MY5365004 2022/07/13 2023/07/12 Test Control Unit Tonscend JS0806-F 19F8060177 2022/07/13 2023/07/12 </td <td>Active Loop Antenna</td> <td>Technology</td> <td>ZN30900C</td> <td>15006</td> <td>2022/09/09</td> <td>2023/09/08</td>	Active Loop Antenna	Technology	ZN30900C	15006	2022/09/09	2023/09/08
Antenna SCHWARZBECK BBHA 9170 791 2022/09/09 2023/09/08 Amplifier Schwarzbeck BBV 9743 #202 2022/07/13 2023/07/12 Amplifier Schwarzbeck BBV9179 9719-025 2022/07/13 2023/07/12 Amplifier EMCI EMC051845B 980355 2022/07/13 2023/07/12 Temperature/Humidity Meter Gangxing CTH-608 02 2022/07/13 2023/07/12 High-Pass Filter K&L 2700/X12750- 0/O KL142031 2022/07/13 2023/07/12 High-Pass Filter K&L 1375/U12750- 0/O KL142032 2022/07/13 2023/07/12 RF Cable(below 1GHz) HUBER+SUHNE R RG214 RE01 2022/07/13 2023/07/12 Potal acquisition card Agilent U2531A TW53323507 2022/07/13 2023/07/12 Power Sensor Agilent U2021XA MY5365004 2022/07/13 2023/07/12 Test Control Unit Tonscend JS0806-F 19F8060177 2022/07/13 2023/07/12 <tr< td=""><td>Bilog Antenna</td><td>Schwarzbeck</td><td>VULB9163</td><td>000976</td><td>2022/07/13</td><td>2023/07/12</td></tr<>	Bilog Antenna	Schwarzbeck	VULB9163	000976	2022/07/13	2023/07/12
Amplifier Schwarzbeck BBV9179 9719-025 2022/07/13 2023/07/12 Amplifier EMCI EMC051845B 980355 2022/07/13 2023/07/12 Temperature/Humidi ty Meter Gangxing CTH-608 02 2022/07/13 2023/07/12 High-Pass Filter K&L 9SH10- 2700/X12750- 0/O KL142031 2022/07/13 2023/07/12 High-Pass Filter K&L 1375/U12750- 0/O KL142032 2022/07/13 2023/07/12 RF Cable(below 1GHz) HUBER+SUHNE R RG214 RE01 2022/07/13 2023/07/12 RF Cable(above 1GHz) HUBER+SUHNE R RG214 RE02 2022/07/13 2023/07/12 Data acquisition card Agilent U2531A TW53323507 2022/07/13 2023/07/12 Power Sensor Agilent U2021XA MY5365004 2022/07/13 2023/07/12 Test Control Unit Tonscend JS0806-F 19F8060177 2022/07/13 2023/07/12 EMI Test Software Tonscend JS1120-1 Ver 2.6.8.0518 / /		SCHWARZBECK	BBHA 9170	791	2022/09/09	2023/09/08
Amplifier EMCI EMC051845B 980355 2022/07/13 2023/07/12 Temperature/Humidi ty Meter Gangxing CTH-608 02 2022/07/13 2023/07/12 High-Pass Filter K&L 9SH10- 2700/X12750- 0/O KL142031 2022/07/13 2023/07/12 High-Pass Filter K&L 41H10- 1375/U12750- 0/O KL142032 2022/07/13 2023/07/12 RF Cable(below 1GHz) HUBER+SUHNE R RG214 RE01 2022/07/13 2023/07/12 RF Cable(above 1GHz) HUBER+SUHNE R RG214 RE02 2022/07/13 2023/07/12 Data acquisition card Agilent U2531A TW53323507 2022/07/13 2023/07/12 Power Sensor Agilent U2021XA MY5365004 2022/07/13 2023/07/12 Test Control Unit Tonscend JS0806-F 19F8060177 2022/07/13 2023/07/12 EMI Test Software Tonscend JS1120-1 Ver 2.6.8.0518 / / EMI Test Software Tonscend JS1120-3 Ver 2.5.77.0418 / /	Amplifier	Schwarzbeck	BBV 9743	#202	2022/07/13	2023/07/12
Temperature/Humidity Meter Gangxing CTH-608 02 2022/07/13 2023/07/12 High-Pass Filter K&L 9SH10- 2700/X12750- 0/O KL142031 2022/07/13 2023/07/12 High-Pass Filter K&L 41H10- 1375/JU12750- 0/O KL142032 2022/07/13 2023/07/12 RF Cable(below 1GHz) HUBER+SUHNE R RG214 RE01 2022/07/13 2023/07/12 Pata acquisition card Agilent U2531A TW53323507 2022/07/13 2023/07/12 Power Sensor Agilent U2021XA MY5365004 2022/07/13 2023/07/12 Test Control Unit Tonscend JS0806-1 178060067 2022/07/13 2023/07/12 Automated filter bank Tonscend JS0806-F 19F8060177 2022/07/13 2023/07/12 EMI Test Software Tonscend JS1120-1 Ver 2.6.8.0518 / / EMI Test Software Tonscend JS1120-3 Ver 2.5.77.0418 / /	Amplifier	Schwarzbeck	BBV9179	9719-025	2022/07/13	2023/07/12
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High-Pass Filter K&L 2700/X12750- O/O KL142031 2022/07/13 2023/07/12 High-Pass Filter K&L 41H10- 1375/U12750- O/O KL142032 2022/07/13 2023/07/12 RF Cable(below 1GHz) HUBER+SUHNE R RG214 RE01 2022/07/13 2023/07/12 RF Cable(above 1GHz) HUBER+SUHNE R RG214 RE02 2022/07/13 2023/07/12 Data acquisition card Agilent U2531A TW53323507 2022/07/13 2023/07/12 Power Sensor Agilent U2021XA MY5365004 2022/07/13 2023/07/12 Test Control Unit Tonscend JS0806-1 178060067 2022/07/13 2023/07/12 Automated filter bank Tonscend JS0806-F 19F8060177 2022/07/13 2023/07/12 EMI Test Software Tonscend JS1120-1 Ver 2.6.8.0518 / / EMI Test Software Tonscend JS1120-3 25.77.0418 / /		Gangxing	CTH-608	02	2022/07/13	2023/07/12
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1GHz) R RG214 RE02 2022/07/13 2023/07/12 Data acquisition card Agilent U2531A TW53323507 2022/07/13 2023/07/12 Power Sensor Agilent U2021XA MY5365004 2022/07/13 2023/07/12 Test Control Unit Tonscend JS0806-1 178060067 2022/07/13 2023/07/12 Automated filter bank Tonscend JS0806-F 19F8060177 2022/07/13 2023/07/12 EMI Test Software Tonscend JS1120-1 Ver 2.6.8.0518 / / EMI Test Software Tonscend JS1120-3 Ver 2.5.77.0418 / /			RG214	RE01	2022/07/13	2023/07/12
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bank Tonscend JS0806-F 19F8060177 2022/07/13 2023/07/12 EMI Test Software Tonscend JS1120-1 Ver 2.6.8.0518 / / EMI Test Software Tonscend JS1120-3 Ver 2.5.77.0418 / /	Test Control Unit	Tonscend	JS0806-1	178060067	2022/07/13	2023/07/12
EMI Test Software Tonscend JS1120-3 Ver 2.5.77.0418 / /		Tonscend	JS0806-F	19F8060177	2022/07/13	2023/07/12
EMI Test Software Tonscend JS1120-3 2.5.77.0418 /	EMI Test Software	Tonscend	JS1120-1	Ver 2.6.8.0518	/	1
FNIT 40 (6 T	EMI Test Software	Tonscend	JS1120-3		/	/
EMI Test Software Tonscend JS32-CE Ver 2.5 /	EMI Test Software	Tonscend	JS32-CE	Ver 2.5	/	1
EMI Test Software Tonscend JS32-RE Ver 2.5.1.8 / /	EMI Test Software	Tonscend	JS32-RE	Ver 2.5.1.8	/	/

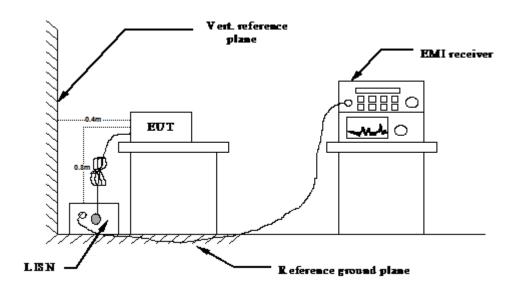
Note: 1. The Cal.Interval was one year.

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4. TEST CONDITIONS AND RESULTS

4.1. AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2013.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2013
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013
- 4 The EUT received DC 24V power, the adapter received AC120V/60Hz or AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

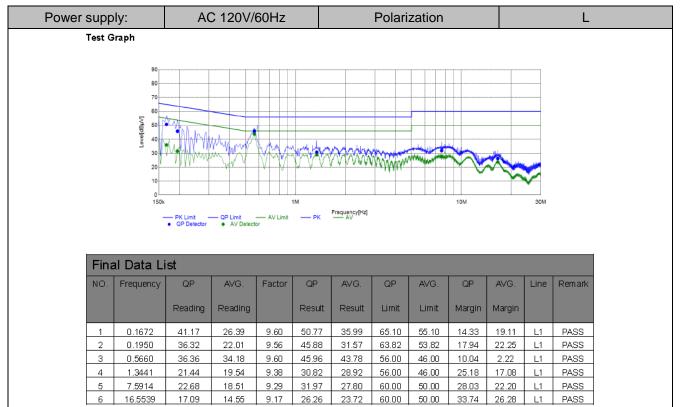
For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following:

Frequency range (MHz)	Limit (dBuV)			
r requericy rarige (Miriz)	Quasi-peak	Average		
0.15-0.5	66 to 56*	56 to 46*		
0.5-5	56	46		
5-30	60	50		
* Decreases with the logarithm of the frequency.				

TEST RESULTS

Remark: We measured Conducted Emission at GFSK mode from 150 KHz to 30MHz in AC120V and the worst case was recorded.

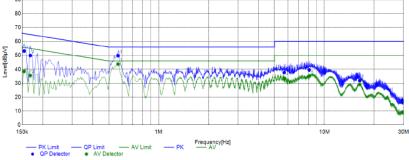
Temperature	25℃	Humidity	60%
Test Engineer	Jenny Zeng	Configurations	BT



Note: 1. Result (dB μ V) = Reading (dB μ V) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N
Test Graph			
90.			
80			
70 60			



Fina	Final Data List											
NO.	Frequency	QP	AVG.	Factor	QP	AVG.	QP	AVG.	QP	AVG.	Line	Remark
		Reading	Reading		Result	Result	∟imit	Limit	Margin	Margin		
1	0.1544	43.56	28.96	9.61	53.17	38.57	65.76	55.76	12.59	17.19	N	PASS
2	0.1682	40.33	25.90	9.59	49.92	35.49	65.05	55.05	15.13	19.56	N	PASS
3	0.5702	40.37	34.32	9.40	49.77	43.72	56.00	46.00	6.23	2.28	N	PASS
4	5.7284	28.35	24.19	9.33	37.68	33.52	60.00	50.00	22.32	16.48	N	PASS
5	8.1063	30.27	25.77	9.29	39.56	35.06	60.00	50.00	20.44	14.94	N	PASS
6	16.3357	22.76	20.00	9.18	31.94	29.18	60.00	50.00	28.06	20.82	N	PASS

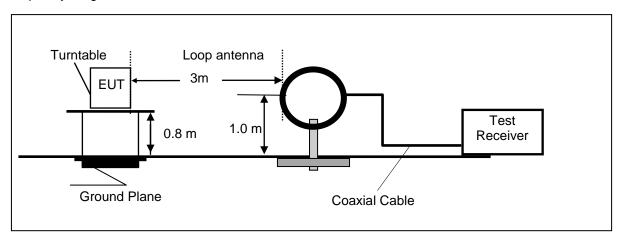
Note: 1. Result (dB μ V) = Reading (dB μ V) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

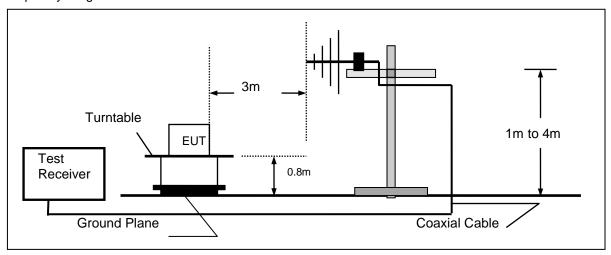
4.2. Radiated Emission

TEST CONFIGURATION

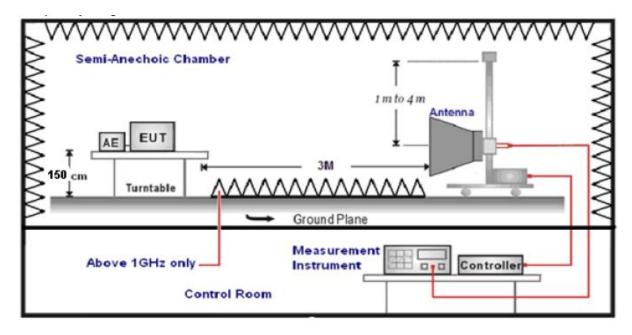
Frequency range 9 KHz - 30MHz



Frequency range 30MHz - 1000MHz



Frequency range above 1GHz-25GHz



TEST PROCEDURE

- 1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz;the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz 25GHz.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed.
- 5. Radiated emission test frequency band from 30MHz to 25GHz.
- 6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Anternna	1

7. Setting test receiver/spectrum as following table states:

Test	Frequency	Test Receiver/Spectrum Setting	Detector
range			
9KHz-1	150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
150KH	z-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
30MHz	-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP
		Peak Value: RBW=1MHz/VBW=3MHz,	
1GHz-40GHz		Sweep time=Auto	Peak
		Average Value: RBW=1MHz/VBW=10Hz,	
	Sweep time=Auto		

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

Transd=AF +CL-AG

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RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the100kHz bandwidth within the band that contains the highest level of desired power.

The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (μV/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST RESULTS

Remark: We measured Radiated Emission at GFSK mode from 9KHz to 25GHz in AC120V and the worst case was recorded.

Temperature	25℃	Humidity	58%
Test Engineer	Jenny Zeng	Configurations	BT

For 9 KHz~30MHz

Freq.	Level	Over Limit	Over Limit	Remark
(MHz)	(dBuV)	(dB)	(dBuV)	
-	-	-	-	See Note

Note:

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

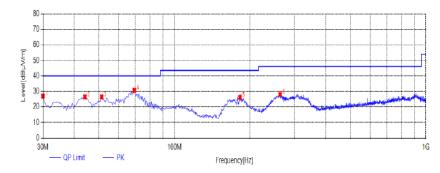
Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

For 30MHz to 1000MHz

Horizontal





QP Detector

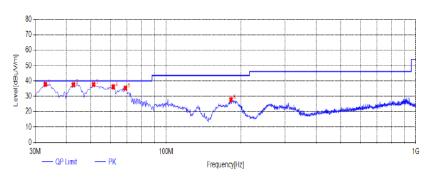
Susp	Suspected List										
NO.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark
	[2]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]			
1	30.0000	36.82	-9.76	27.06	40.00	12.94	100	78	PK	Horizonta	PASS
2	44.0650	33.07	-6.63	26.44	40.00	13.56	100	318	PK	Horizonta	PASS
3	51.3400	33.07	-6.63	26.44	40.00	13.56	100	350	PK	Horizonta	PASS
4	69.2850	40.76	-10.06	30.70	40.00	9.30	100	34	PK	Horizonta	PASS
5	182.2900	37.10	-10.90	26.20	43.50	17.30	100	101	PK	Horizonta	PASS
6	263.2850	36.05	-8.00	28.05	46.00	17.95	100	120	PK	Horizonta	PASS

Note: 1. Result ($dB\mu V/m$) = Reading($dB\mu V/m$) + Factor (dB).

 $2.\,Factor\,(dB) = Antenna\,Factor\,(dB/m) + Cable\,loss\,(dB) - Pre\,Amplifier\,gain\,(dB).$

Vertical

Test Graph



Susp	Suspected List										
NO.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark
	,	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]			
1	32.9100	47.33	-9.55	37.78	40.00	2.22	100	230	PK	Vertical	PASS
2	42.6100	44.54	-6.99	37.55	40.00	2.45	100	290	PK	Vertical	PASS
3	51.3400	44.31	-6.63	37.68	40.00	2.32	100	249	PK	Vertical	PASS
4	61.5250	44.84	-8.70	36.14	40.00	3.86	100	110	PK	Vertical	PASS
5	68.8000	45.15	-9.80	35.35	40.00	4.65	100	12	PK	Vertical	PASS
6	182.2900	38.69	-10.90	27.79	43.50	15.71	100	158	PK	Vertical	PASS

Note: 1. Result (dB μ V/m) = Reading(dB μ V/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

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For 1GHz to 25GHz

BT LE

Channel 0 / 2402 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4804.00	50.79	32.44	30.25	7.95	60.93	74.00	-13.07	Peak	Horizontal
4804.00	35.35	32.44	30.25	7.95	45.49	54.00	-8.51	Average	Horizontal
4804.00	53.90	32.44	30.25	7.95	64.04	74.00	-9.96	Peak	Vertical
4804.00	35.00	32.44	30.25	7.95	45.14	54.00	-8.86	Average	Vertical

Channel 19 / 2440 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4880.00	49.07	32.52	30.31	8.12	59.40	74.00	-14.60	Peak	Horizontal
4880.00	36.11	32.52	30.31	8.12	46.44	54.00	-7.56	Average	Horizontal
4880.00	51.56	32.52	30.31	8.12	61.89	74.00	-12.11	Peak	Vertical
4880.00	35.68	32.52	30.31	8.12	46.01	54.00	-7.99	Average	Vertical

Channel 39 / 2480 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4960.00	51.84	32.68	30.27	7.88	62.13	74.00	-11.87	Peak	Horizontal
4960.00	35.43	32.68	30.27	7.88	45.72	54.00	-8.28	Average	Horizontal
4960.00	49.68	32.68	30.27	7.88	59.97	74.00	-14.03	Peak	Vertical
4960.00	31.76	32.68	30.27	7.88	42.05	54.00	-11.95	Average	Vertical

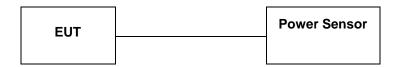
Notes:

- 1). Measuring frequencies from 9 KHz~10th harmonic or 26.5GHz (which is less), No emission found between lowest internal used/generated frequency to 30MHz.
- 2). Radiated emissions measured in frequency range from 9 KHz~10th harmonic or 26.5GHz (which is less) were made with an instrument using Peak detector mode.
- 3). Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4). Measured= Reading- Pre. Fac.+ Ant. Fac.+ Cab. Loss
- 5). Margin = Measured- Limit

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4.3. Maximum Peak Output Power

TEST CONFIGURATION



TEST PROCEDURE

According to KDB 558074 D01 15.247 Measurement Guidance v05r02 Section 8.3.1 Maximum peak conducted output power, 8.3.1.3 The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

<u>LIMIT</u>

The Maximum Peak Output Power Measurement is 30dBm.

TEST RESULTS

For reporting purpose only.

Please refer to Appendix B.3.

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4.4. Power Spectral Density

TEST CONFIGURATION



TEST PROCEDURE

- 1.Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
- 2.Set the RBW =3 kHz.
- 3.Set the VBW =10 KHz.
- 4. Set the span to 1.5 times the DTS channel bandwidth.
- 5.Detector = peak.
- 6.Sweep time = auto couple.
- 7. Trace mode = \max hold.
- 8. Allow trace to fully stabilize.
- 9.Use the peak marker function to determine the maximum power level.
- 10.If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
- 11. The resulting peak PSD level must be 8 dBm.

LIMIT

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST RESULTS

For reporting purpose only.

Please refer to Appendix B.4.

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4.5. 99% and 6dB Bandwidth

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=100 KHz and VBW=300KHz. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB. According to KDB 558074 D01 DTS Meas Guidance v05r02 for one of the following procedures may be used to determine the modulated DTS device signal bandwidth.

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) ≥ 3 RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

LIMIT

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz

TEST RESULTS

For reporting purpose only.

Please refer to Appendix B.1.

Please refer to Appendix B.2.

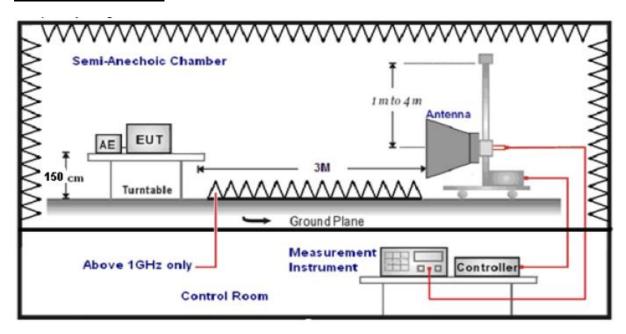
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4.6. Conducted Spurious Emissions and Band Edge Compliance of RF Emission

TEST REQUIREMENT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was placed on a turn table which is 1.5m above ground plane.
- 2.Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed...
- 5. The distance between test antenna and EUT was 3 meter:
- 6. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

LIMIT

Below -20dB of the highest emission level in operating band.

Radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)

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TEST RESULTS

4.6.1 For Radiated Bandedge Measurement

Temperature	23.8℃	Humidity	53.7%
Test Engineer	Jenny Zeng	Configurations	BT

Frequency	y(MHz):			2402			Polarity:		H	HORIZONTAL		
Frequency (MHz)	Emiss Leve (dBuV/	el	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifi er	Correction Factor (dB/m)	
2390.00	45.26	PK	74.00	-28.74	1.50	88	50.57	27.49	3.32	36.12	-5.31	
2390.00	34.61	AV	54.00	-19.39	1.50	88	39.92	27.49	3.32	36.12	-5.31	
Frequenc	y(MHz):			2402			Polarity:			VERTI	CAL	
Frequency (MHz)	Emissi Leve (dBuV/	el	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifi er	Correction Factor (dB/m)	
2390.00	48.93	PK	74.00	-25.07	1.50	255	54.24	27.49	3.32	36.12	-5.31	
2390.00	29.81	AV	54.00	-24.19	1.50	255	35.12	27.49	3.32	36.12	-5.31	
Frequenc	y(MHz):			2480			Polarity:		ŀ	HORIZO	NTAL	
Frequency (MHz)	Emiss Leve (dBuV/	el	Limit (dBuV/m)	Margin (dB)	Antenna Height	Table Angle	Raw Value	Antenna Factor	Cable Factor	Pre- amplifi	Correction Factor	
	(ubuv	m)	(3.2 3.1,111)	(ab)	(m)	(Degree)	(dBuV)	(dB/m)	(dB)	er	(dB/m)	
2483.50	45.35	m) PK	74.00	-28.65	(m) 1.50	_	(dBuV) 51.07	(dB/m) 27.45	(dB) 3.38	'	(dB/m) -5.72	
2483.50 2483.50	` `		` ′	` ′	` ′	(Degree)	(/	, ,	` '	er	_ ` ′	
	45.35 34.13	PΚ	74.00	-28.65	1.50	(Degree) 182	51.07	27.45	3.38	er 36.55	-5.72 -5.72	
2483.50	45.35 34.13	PK AV ion	74.00	-28.65 -19.87	1.50	(Degree) 182	51.07 39.85	27.45 27.45 Antenna	3.38 3.38 Cable	er 36.55 36.55	-5.72 -5.72	
2483.50 Frequency	45.35 34.13 y(MHz): Emissi Leve	PK AV ion	74.00 54.00	-28.65 -19.87 2480 Margin	1.50 1.50 Antenna Height	(Degree) 182 182 Table Angle	51.07 39.85 Polarity: Raw Value	27.45 27.45 Antenna Factor	3.38 3.38 Cable Factor	er 36.55 36.55 VERTI Pre- amplifi	-5.72 -5.72 CAL Correction Factor	

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
- 3. Margin value = Limit value- Emission level.
- 4. -- Mean the PK detector measured value is below average limit.
- 5. The other emission levels were very low against the limit.

4.6.2 For Conducted Bandedge Measurement

For reporting purpose only.

Please refer to Appendix B.5.

4.6.3 For Conducted Spurious Emissions Measurement

For reporting purpose only.

Please refer to Appendix B.6.

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4.7. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

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.

Test Result

The antenna used for this product is External Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 2.00dBi.

Reference to the Test Report: GTS20220905013-1-7.

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5. TEST SETUP PHOTOS OF THE EUT

Reference to the Test Report: GTS20220905013-1-7.

6.	EXTERNAL	AND	INTERNAL	PHOTOS	ΟF	THE	EUI	
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Reference to the Test Report: GTS20220905013-1-7.
End of Report