

FCC Test Report

Report No.: AGC10328201001FE03

FCC ID : 2AV7N-BRS

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: Donner Bluetooth 5.0 Audio Receiver

BRAND NAME : Donner

MODEL NAME : BR1, BR2

APPLICANT: Guangzhou Rantion Technology Co., Ltd

DATE OF ISSUE : Nov. 04, 2020

STANDARD(S) : FCC Part 15.247

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	® /	Nov. 04, 2020	Valid	Initial Release

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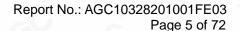
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1. VERIFICATION OF CONFORMITY

Applicant	Guangzhou Rantion Technology Co., Ltd				
Address	Building D, Kengkou digital base, No.9, Huaxi Road, Liwan District, Guangzhou, China				
Manufacturer	Guangzhou Rantion Technology Co., Ltd				
Address	Building D, Kengkou digital base, No.9, Huaxi Road, Liwan District, Guangzho China				
Factory	Guangzhou Rantion Technology Co., Ltd				
Address	Building D, Kengkou digital base, No.9, Huaxi Road, Liwan District, Guangzhou, China				
Product Designation	Donner Bluetooth 5.0 Audio Receiver				
Brand Name	Donner				
Test Model	BR1				
Series Model	BR2				
Difference Description	All the same except for the model name.				
Date of test	Oct. 26, 2020 to Nov. 03, 2020				
Deviation	No any deviation from the test method				
Condition of Test Sample	Normal				
Test Result	Pass				
Report Template	AGCRT-US-BR/RF				

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC PART 15.247.

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Donner Bluetooth 5.0 Audio Receiver". It is designed by way of utilizing the GFSK, Pi/4 DQPSK and 8DPSK technology to achieve the system operation.

A major technical description of EUT is described as following

Onereties Frances	2 402 CH= t= 2 400 CH=
Operation Frequency	2.402 GHz to 2.480 GHz
RF Output Power	-3.145dBm (Max)
Bluetooth Version	V5.0
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps
Number of channels	79
Hardware Version	V1.0
Software Version	V1.0
Antenna Designation	PCB Antenna (Comply with requirements of the FCC part 15.203)
Antenna Gain	0dBi
Power Supply	DC 5V by adapter
Adapter	Model name:GAT-0501000U Input: AC 100-240V 0.4A 50/60Hz Output:5.0V 1000mA
Note: The EUT doesn't support	BLE.

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency		
8	0	2402 MHz		
100 cC	9 1	2403 MHz		
	38	2440 MHz		
2402~2480MHz	39	2441 MHz		
	40	2442 MHz		
100 a.C.	77	2479 MHz		
	78	2480 MHz		

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2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHz, in every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally, the type of connection (e.g. single of multi slot packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also, the slave of the connection will use these settings. Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

Example of a hopping sequence in data mode:

40, 21, 44, 23, 04, 15, 66, 56, 19, 78, 07, 28, 69, 55,

36, 45, 05, 13, 43, 74, 57, 35, 67, 76, 02, 34, 54, 63,

42, 11, 30, 06, 64, 25, 75, 48, 17, 33, 58, 01, 29, 14,

51, 72, 03, 31, 50, 61, 77, 18, 10, 47, 12, 68, 08, 49,

20, 79, 73, 09, 16, 60, 71, 41, 24, 53, 38, 26, 46, 37,

65, 32, 70, 52, 27, 59, 22, 62, 39

2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values:

- 1. LAP/UAP of the master of the connection.
- 2. Internal master clock.

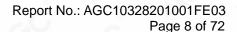
The LAP (lower address part) are the 24 LSB's of the 48 BD_ADDRESS. The BD_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP (upper address part) are the 24MSB's of the 48BD_ADDRESS

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For behavior action with other units only offset is used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5us. The clock has a cycle of about one day(23h30). In most case it is implemented as 28 bits counter. For the deriving of the hopping sequence the entire. LAP (24 bits),4LSB's(4bits) (Input 1) and the 27MSB's of the clock (Input 2) are used. With this input values different mathematical procedures (permutations, additions, XOR-operations) are performed to generate the Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following behavior:

The first connection between the two devices is established, a hopping sequence was generated. For Transmitting the wanted data the complete hopping sequence was not used. The connection ended.

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The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmission is longer (and it Cannot be shorter) than the minimum resolution of the clock(312.5us). The hopping sequence will always differ from the first one.

2.6. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID**: **2AV7N-BRS** filling to comply with the FCC PART 15.247 requirements.

2.7. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

2.9. EQUIPMENT MODIFICATIONS

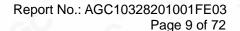
Not available for this EUT intended for grant.

2.10. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, Uc = ±3.1 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±4.0 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted, Uc = ±0.8dB
- Uncertainty of spurious emissions, conducted, Uc = ±2.7dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %
- Uncertainty of Dwell Time: Uc = ±2 %
- Uncertainty of Frequency: Uc = ±2 %

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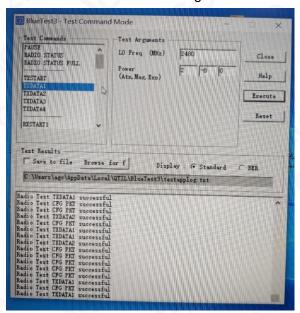
4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION				
1	Low channel GFSK				
2	Middle channel GFSK				
3	High channel GFSK				
4	Low channel π/4-DQPSK				
5	Middle channel π/4-DQPSK				
6	High channel π/4-DQPSK				
7	Low channel 8DPSK				
8	Middle channel 8DPSK				
9	High channel 8DPSK				
10	Hopping mode GFSK				
11	Hopping mode π/4-DQPSK				
12	Hopping mode 8DPSK				

Note:

- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

Software Setting



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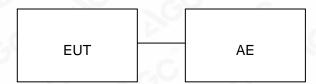
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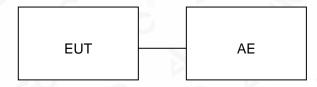
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:



5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Donner Bluetooth 5.0 Audio Receiver	BR1	2AV7N-BRS	EUT
2	Control Box	N/A	USB-TTL	AE
3	USB Cable	N/A	1.13m unshielded	Accessory
4	Adapter	GAT-0501000U	N/A	Accessory

5.3. SUMMARY OF TEST RESULTS

DESCRIPTION OF TEST	RESULT	
Peak Output Power	Compliant	
20 dB Bandwidth	Compliant	
Conducted Spurious Emission	Compliant	
Radiated Emission	Compliant	
Number of Hopping Frequency	Compliant	
Time of Occupancy	Compliant	
Frequency Separation	Compliant	
Conducted Emission	Compliant	
	Peak Output Power 20 dB Bandwidth Conducted Spurious Emission Radiated Emission Number of Hopping Frequency Time of Occupancy Frequency Separation	

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd			
Location 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community Fuhai Street, Bao'an District, Shenzhen, Guangdong, China				
Designation Number	CN1259			
FCC Test Firm Registration Number	975832			
A2LA Cert. No.	5054.02			
Description	Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA			

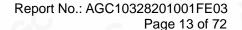
TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	May 15, 2020	May 14, 2021
LISN	R&S	ESH2-Z5	100086	Jul. 03, 2020	Jul. 02, 2021
Test software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2021
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2019	Sep. 20, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 17, 2019	May 16, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 09, 2019	Jan. 08, 2021
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

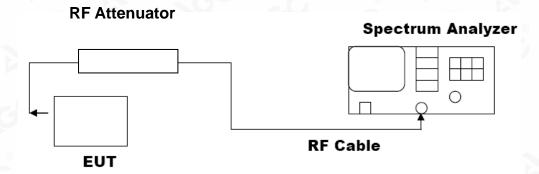
For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 3. RBW > 20 dB bandwidth of the emission being measured.
- 4. VBW ≥RBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

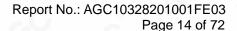
Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

PEAK POWER TEST SETUP



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7.3. LIMITS AND MEASUREMENT RESULT

FOR GFSK MOUDULATION			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	-8.013	21	Pass
2.441	-7.555	21	Pass
2.480	-6.698	21	Pass

CH₀



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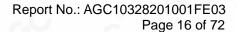
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PEAK OUTPUT POWER MEASUREMENT RESULT				
	FOR Π/4-DQPSK MODULATION			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail	
2.402	-5.199	21	Pass	
2.441	-4.675	21	Pass	
2.480	-3.826	21	Pass	

CH₀



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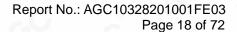
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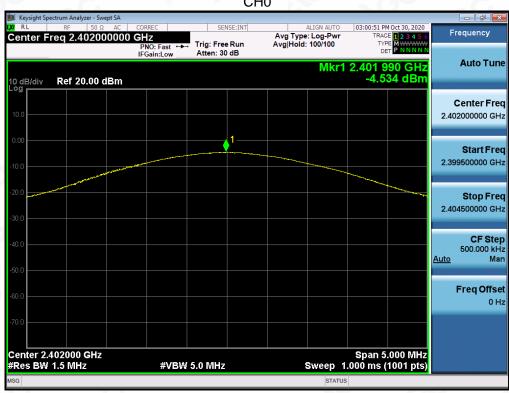
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PEAK OUTPUT POWER MEASUREMENT RESULT				
	FOR 8-DPSK MODULATION			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail	
2.402	-4.534	21	Pass	
2.441	-4.005	21	Pass	
2.480	-3.145	21	Pass	

CH₀



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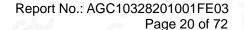
CH39



CH78



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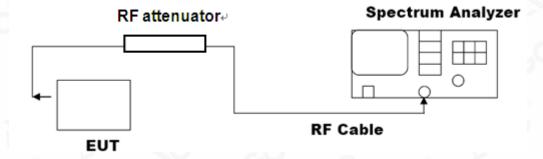


8. 20DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hoping channel
 The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video
 bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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8.3. LIMITS AND MEASUREMENT RESULTS

MEASUREMENT RESULT FOR GFSK MOUDULATION			
A collect to 1 to the	Measurement Result		
Applicable Limits	Test Data	(MHz)	Criteria
N/A	Low Channel	0.965	PASS
	Middle Channel	0.960	PASS
	High Channel	0.962	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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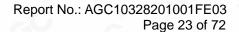
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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/Inspection The test results the test report.



MEASUREMENT RESULT FOR ∏ /4-DQPSK MODULATION					
Annilo abla Limita		Measurement Resu	Result		
Applicable Limits	Test Data	(MHz)	Criteria		
	Low Channel	1.323	PASS		
N/A	Middle Channel	1.327	PASS		
	High Channel	1.330	PASS		

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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MEASUREMENT RESULT FOR 8-DPSK MODULATION				
Annliachta Limita		Measurement Result		
Applicable Limits	Test Data	ı (MHz)	Criteria	
	Low Channel	1.311	PASS	
N/A	Middle Channel	1.305	PASS	
	High Channel	1.302	PASS	

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
- 3. Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
 RBW = 100 kHz; VBW= 300 kHz; Sweep = auto; Detector function = peak.
- 4. Set SPA Trace 1 Max hold, then View.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

9.4. LIMITS AND MEASUREMENT RESULT

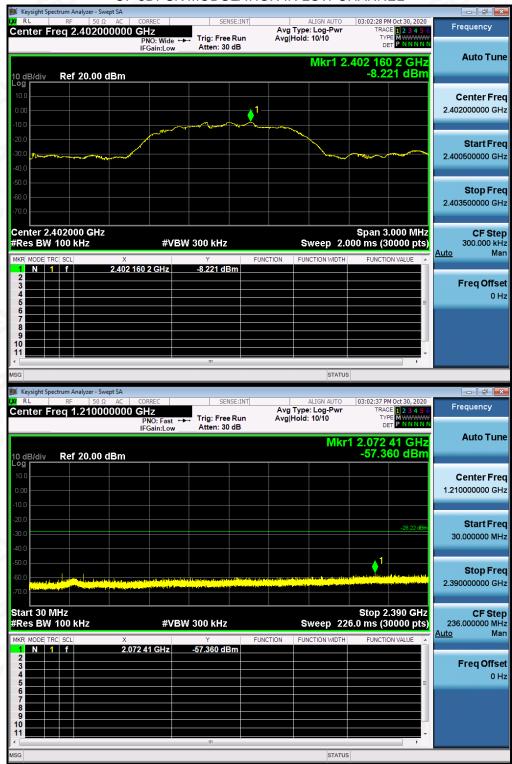
LIMITS AND MEASUREMENT RESULT			
Angliaghla Limita	Measurement Result		
Applicable Limits	Test Data	Criteria	
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS	
power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation 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))	At least -20dBc than the limit Specified on the TOP Channel	PASS	

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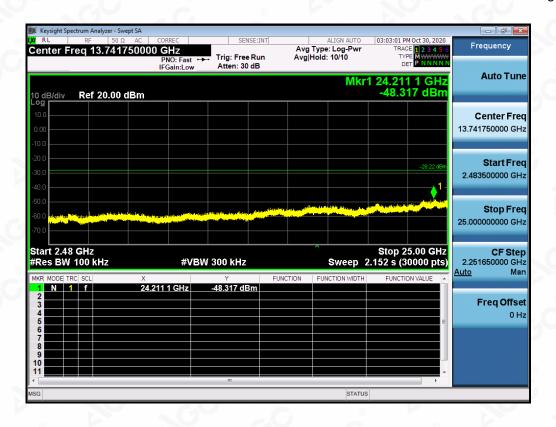
TEST RESULT FOR ENTIRE FREQUENCY RANGE

TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 8DPSK MODULATION IN LOW CHANNEL



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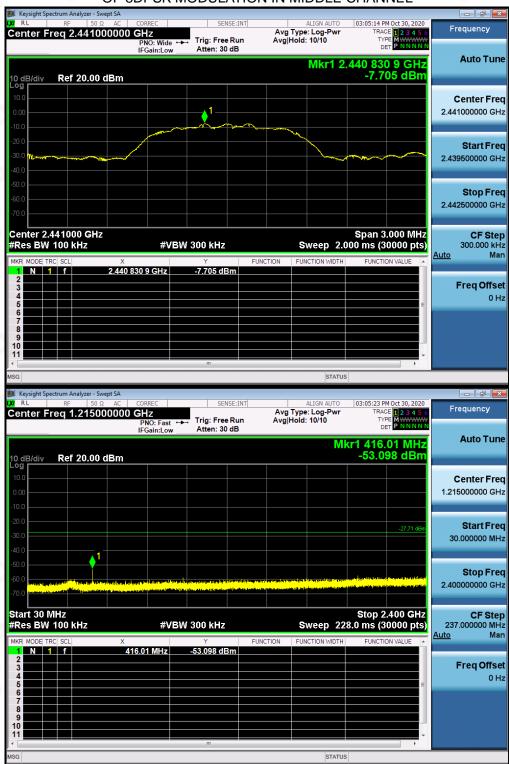




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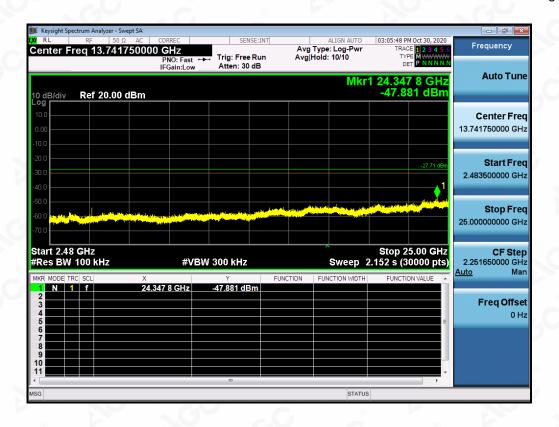
TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK MODULATION IN MIDDLE CHANNEL



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g/Inspection
The test results
the test report.

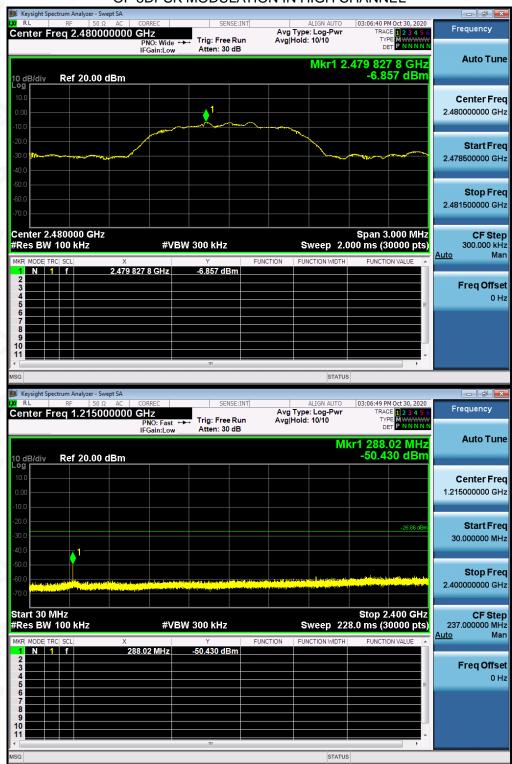




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TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK MODULATION IN HIGH CHANNEL



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Note: The 8DPSK modulation is the worst case and only those data recorded in the report.

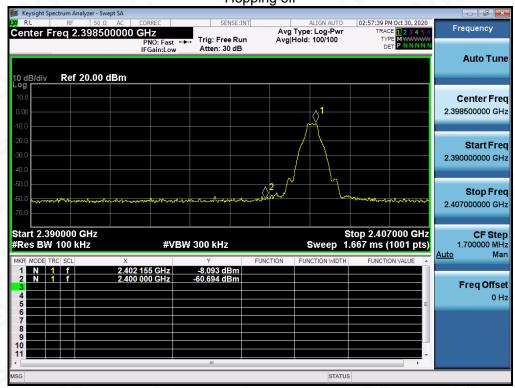
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Dedicated Festing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC, the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



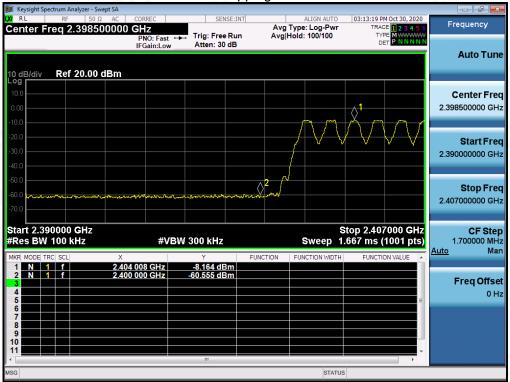
TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL

Hopping off



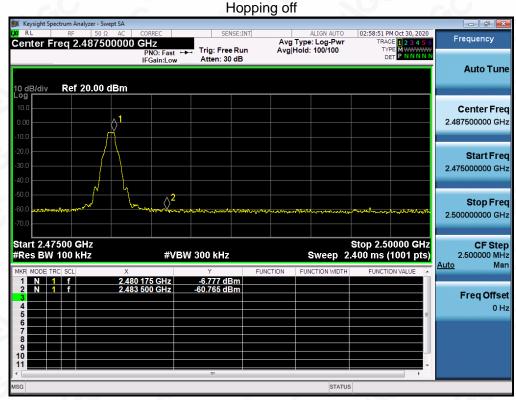




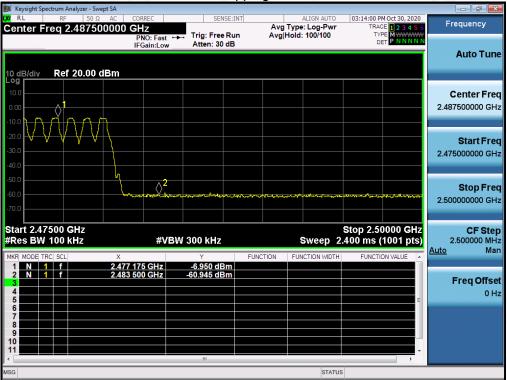
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GFSK MODULATION IN HIGH CHANNEL



Hopping on

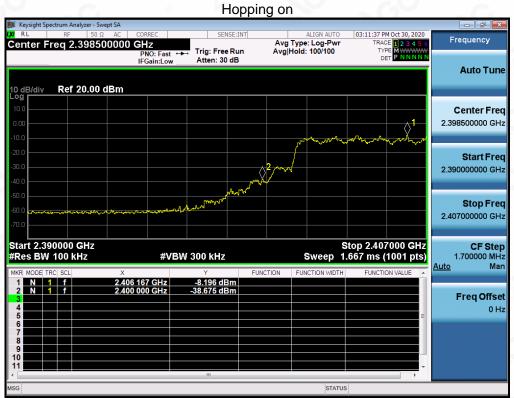


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π /4-DQPSK MODULATION IN LOW CHANNEL Hopping off



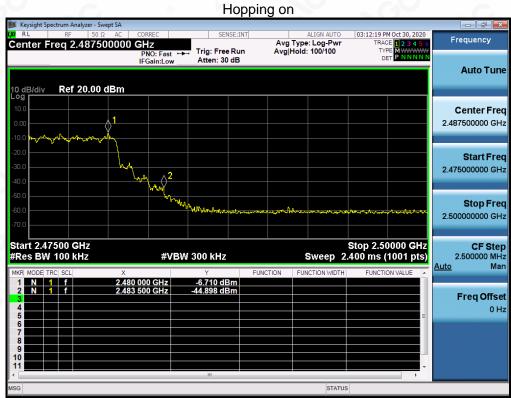


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π /4-DQPSK MODULATION IN HIGH CHANNEL Hopping off

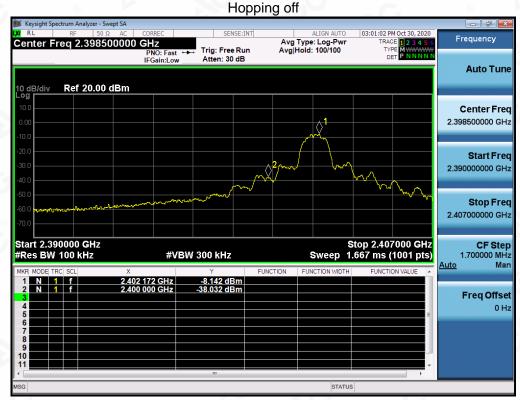


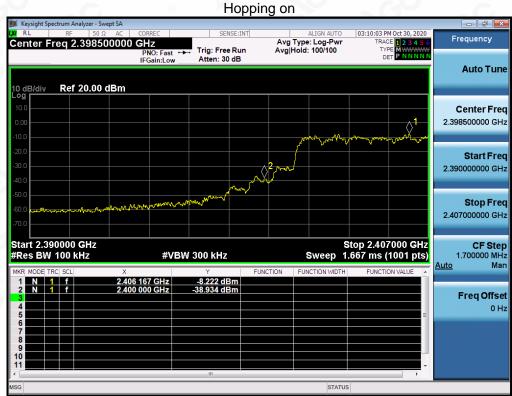


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8-DPSK MODULATION IN LOW CHANNEL



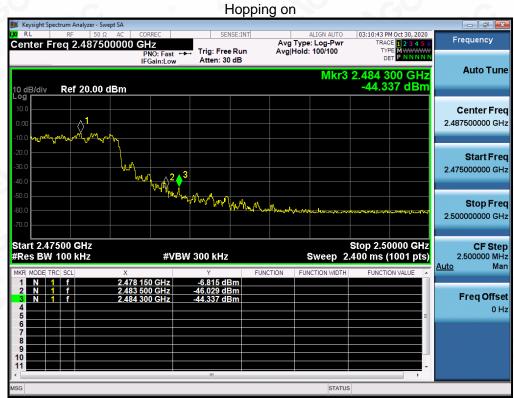


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8-DPSK MODULATION IN HIGH CHANNEL Hopping off





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10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

- The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. 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.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

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The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/3MHz for Average

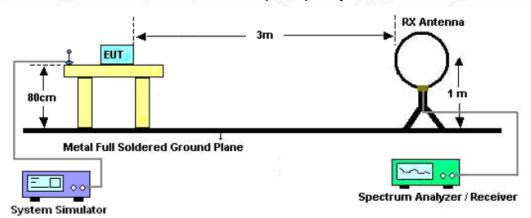
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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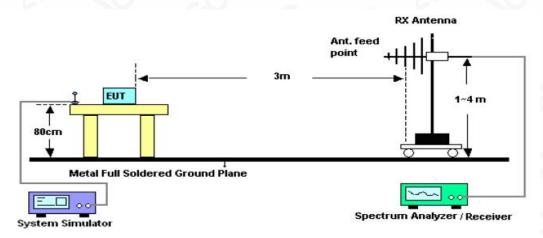


10.2. TEST SETUP

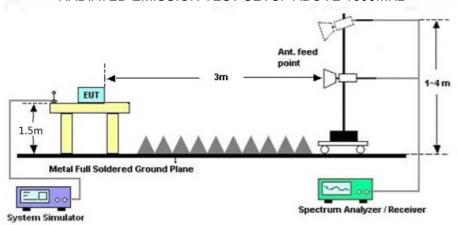
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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10.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
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

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

10.4. TEST RESULT

RADIATED EMISSION BELOW 30MHz

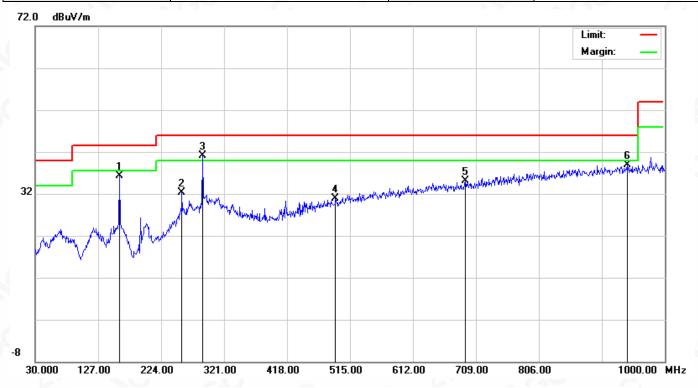
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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RADIATED EMISSION BELOW 1GHz

EUT	Donner Bluetooth 5.0 Audio Receiver	Model Name	BR1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Horizontal



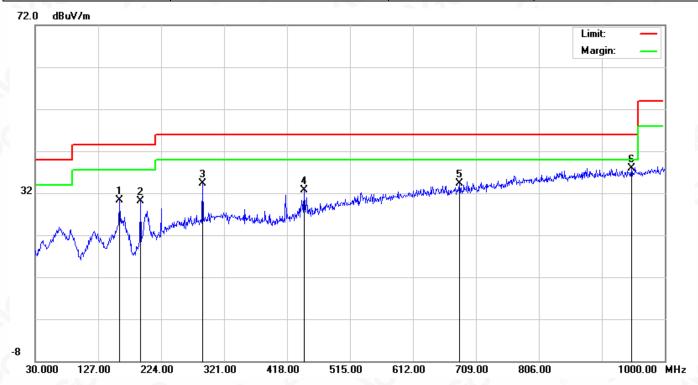
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	1	59.9800	17.05	19.19	36.24	43.50	-7.26	peak
2	2	56.0100	13.97	18.38	32.35	46.00	-13.65	peak
3	* 2	88.0200	20.50	20.55	41.05	46.00	-4.95	peak
4	4	92.6900	6.18	24.70	30.88	46.00	-15.12	peak
5	6	92.5100	7.06	28.06	35.12	46.00	-10.88	peak
6	9	41.8000	6.93	32.06	38.99	46.00	-7.01	peak

RESULT: PASS

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EUT	Donner Bluetooth 5.0 Audio Receiver	Model Name	BR1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Vertical



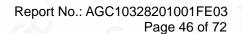
No. Mk. Freq. Reading Level Correct Factor Measurement Limit Over 1 159.9800 11.09 19.19 30.28 43.50 -13.22 peak 2 191.9900 17.75 12.29 30.04 43.50 -13.46 peak 3 288.0200 13.66 20.55 34.21 46.00 -11.79 peak 4 444.1900 10.04 22.75 32.79 46.00 -13.21 peak 5 683.7800 6.28 27.96 34.24 46.00 -11.76 peak 6 * 948.5900 5.79 32.12 37.91 46.00 -8.09 peak									
1 159.9800 11.09 19.19 30.28 43.50 -13.22 peak 2 191.9900 17.75 12.29 30.04 43.50 -13.46 peak 3 288.0200 13.66 20.55 34.21 46.00 -11.79 peak 4 444.1900 10.04 22.75 32.79 46.00 -13.21 peak 5 683.7800 6.28 27.96 34.24 46.00 -11.76 peak	No.	Mk	. Freq.	_			Limit	Over	
2 191.9900 17.75 12.29 30.04 43.50 -13.46 peak 3 288.0200 13.66 20.55 34.21 46.00 -11.79 peak 4 444.1900 10.04 22.75 32.79 46.00 -13.21 peak 5 683.7800 6.28 27.96 34.24 46.00 -11.76 peak			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
3 288.0200 13.66 20.55 34.21 46.00 -11.79 peak 4 444.1900 10.04 22.75 32.79 46.00 -13.21 peak 5 683.7800 6.28 27.96 34.24 46.00 -11.76 peak	1		159.9800	11.09	19.19	30.28	43.50	-13.22	peak
4 444.1900 10.04 22.75 32.79 46.00 -13.21 peak 5 683.7800 6.28 27.96 34.24 46.00 -11.76 peak	2		191.9900	17.75	12.29	30.04	43.50	-13.46	peak
5 683.7800 6.28 27.96 34.24 46.00 -11.76 peak	3		288.0200	13.66	20.55	34.21	46.00	-11.79	peak
	4		444.1900	10.04	22.75	32.79	46.00	-13.21	peak
6 * 948.5900 5.79 32.12 37.91 46.00 -8.09 peak	5		683.7800	6.28	27.96	34.24	46.00	-11.76	peak
	6	*	948.5900	5.79	32.12	37.91	46.00	-8.09	peak

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. All test modes had been pre-tested. The mode 9 is the worst case and recorded in the report.

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/Inspection The test results the test report.



RADIATED EMISSION ABOVE 1GHz

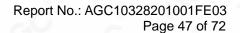
EUT	Donner Bluetooth 5.0 Audio Receiver	Model Name	BR1				
Temperature	25°C	Relative Humidity	55.4%				
Pressure	960hPa	Test Voltage	Normal Voltage				
Test Mode	Mode 7	Antenna	Horizontal				

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
42.26	0.08	42.34	74	-31.66	peak
31.37	0.08	31.45	54	-22.55	AVG
40.48	2.21	42.69	74	-31.31	peak
30.54	2.21	32.75	54	-21.25	AVG
	8		-64		8
	- (<u> </u>			
	(dBµV) 42.26 31.37 40.48	(dBµV) (dB) 42.26 0.08 31.37 0.08 40.48 2.21	(dBμV) (dB) (dBμV/m) 42.26 0.08 42.34 31.37 0.08 31.45 40.48 2.21 42.69	(dBμV) (dB) (dBμV/m) (dBμV/m) 42.26 0.08 42.34 74 31.37 0.08 31.45 54 40.48 2.21 42.69 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 42.26 0.08 42.34 74 -31.66 31.37 0.08 31.45 54 -22.55 40.48 2.21 42.69 74 -31.31

EUT	Donner Bluetooth 5.0 Audio Receiver	Model Name	BR1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	42.69	0.08	42.77	74	-31.23	peak
4804.000	31.88	0.08	31.96	54	-22.04	AVG
7206.000	41.12	2.21	43.33	74	-30.67	peak
7206.000	30.96	2.21	33.17	54	-20.83	AVG
	20	®		3		8
Remark:			(8)			
Factor = Anter	nna Factor + Cable	e Loss – Pre-	amplifier.			

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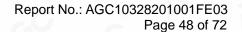
EUT	Donner Bluetooth 5.0 Audio Receiver	Model Name	BR1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 8	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4882.000	43.34	0.14	43.48	74	-30.52	peak
4882.000	33.41	0.14	33.55	54	-20.45	AVG
7323.000	41.52	2.36	43.88	74	-30.12	peak
7323.000	32.75	2.36	35.11	54	-18.89	AVG
-C	8		C		(3)	
temark:						
actor = Anter	nna Factor + Cable	Loss - Pre-	-amplifier.			

EUT	Donner Bluetooth 5.0 Audio Receiver	Model Name	BR1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 8	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4882.000	44.11	0.14	44.25	74	-29.75	peak
4882.000	35.63	0.14	35.77	54	-18.23	AVG
7323.000	44.75	2.36	47.11	74	-26.89	peak
7323.000	34.23	2.36	36.59	54	-17.41	AVG
	(8)			· C	(8)	
						(8)
Remark:						
Factor = Anten	na Factor + Cable	Loss – Pre-a	mplifier.	0		

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EUT	Donner Bluetooth 5.0 Audio Receiver	Model Name	BR1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.000	45.34	0.22	45.56	74	-28.44	peak
4960.000	36.49	0.22	36.71	54	-17.29	AVG
7440.000	44.67	2.64	o 47.31	74	-26.69	peak
7440.000	37.03	2.64	39.67	54	-14.33	AVG
-,0			1 0		· · · · · · · · · · · · · · · · · · ·	
emark:						
actor = Anter	nna Factor + Cable	Loss - Pre-	amplifier.			

EUT	Donner Bluetooth 5.0 Audio Receiver	Model Name	BR1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.000	46.62	0.22	46.84	74 🌕	-27.16	peak
4960.000	37.89	0.22	38.11	54	-15.89	AVG
7440.000	45.74	2.64	48.38	74	-25.62	peak
7440.000	37.58	2.64	40.22	54	-13.78	AVG
8			7.0			
emark:	8					8
actor = Anter	na Factor + Cable	Loss – Pre-	amplifier.			

RESULT: PASS

Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

All test modes had been tested. The 8DPSK modulation is the worst case and recorded in the report.

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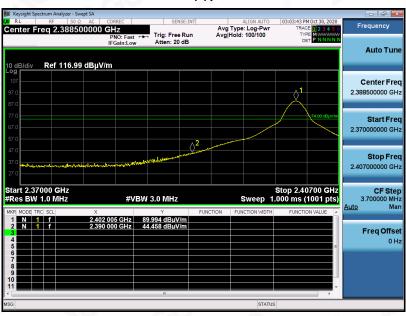
The test results



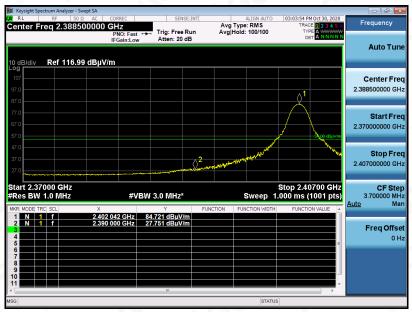
TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	Donner Bluetooth 5.0 Audio Receiver	Model Name	BR1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal

PK



ΑV



RESULT: PASS

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