

FCC Test Report

Report No.: AGC08211190801FE03

: 2ACP4BT775
: Original Equipment
: Bluetooth Headphone
: SENTRY
: BT775, BT700, BC700, BW700
: Sentry Industries Limited
: Sep. 09, 2019
: FCC Part 15.247
: 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	/	Sep. 09, 2019	Valid	Initial Release





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1. VERIFICATION OF CONFORMITY

Applicant	Sentry Industries Limited		
Address	Room 904, 9/F Chinachem Golden Plaza, 77 Mody Road, Tsimshatsui East, Kowloon, Hong Kong		
Manufacturer	Shantou Chaoyang Xinhuasheng Electronics Factory		
Address	Hengshan Village, Gurao Town, Chaoyang District, Shantou City, Guangdong Province.		
Factory	Shantou Chaoyang Xinhuasheng Electronics Factory		
Address	Hengshan Village, Gurao Town, Chaoyang District, Shantou City, Guangdong Province.		
Product Designation	Bluetooth Headphone		
Brand Name	SENTRY		
Test Model	BT775		
Series Model	BT700, BC700, BW700		
Difference description	All the same except for the model name		
Date of test	Aug. 21, 2019 to Sep. 06, 2019		
Deviation	None		
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.

Prepared By	NINI		
	Nini Guo (Project Engineer)	Sep. 06, 2019	
Reviewed By	Max Zhang	GC C	
	Max Zhang (Reviewer)	Sep. 09, 2019	
Approved By	Forrost in		
	Forrest Lei (Authorized Officer)	Sep. 09, 2019	
	Attestation of Global Compliance(Shenzher)Co.,Ltd.	
Attestation of Global Compliance	Add: 2/F., Building 2,Sanwei Chaxi Industri Hangcheng Street, Bao'an District, Sh Tel: +86-755 2523 4088 E-mail:agc		2118



2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Bluetooth Headphone". It is designed by way of utilizing the GFSK, Pi/4 DQPSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz	
RF Output Power	-0.188dBm(Max)	
Bluetooth Version	V 5.0	
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, □8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps	
Number of channels	79	
Hardware Version	V1	
Software Version	V1	
Antenna Designation	PCB Antenna(Comply with requirements of the FCC part 15.203)	
Antenna Gain	-4dBi	
Power Supply	DC 3.7V by battery or DC 5V by adapter	

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	0	2402MHZ
200 .00		2403MHZ
	38	2440 MHZ
2402~2480MHZ	39	2441 MHZ
	40	2442 MHZ
	77	2479 MHZ
	78	2480 MHZ





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 multislot 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 79 hopping sequence in data mode: 40,21,44,23,42,53,46,55,48,33,52,35,50,65,54,67 56,37,60,39,58,69,62,71,64,25,68,27,66,57,70,59 72,29,76,31,74,61,78,63,01,41,05,43,03,73,07,75 09,45,13,47,11,77,15,00,64,49,66,53,68,02,70,06 01, 51, 03, 55, 05, 04

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 ehavior zation with other units only offset are 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 bit 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 te Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following ehavior:

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. 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: 2ACP4BT775** filing 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.





3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y \pm 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 = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted, $Uc = \pm 0.8$ dB
- Uncertainty of spurious emissions, conducted, Uc = ±2.7dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %
- Uncertainty of Dwell Time: Uc = ± 2 %
- Uncertainty of Frequency: $Uc = \pm 2\%$





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	Hopping mode GFSK
8	Hopping mode π/4-DQPSK

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.

4. The test software is the FCCAssist_1.0.1.2 which can set the EUT into the individual test modes.





5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure :

EUT

5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Bluetooth Headphone	BT775	2ACP4BT775	EUT

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(1)	Peak Output Power	Compliant
15.247 (a)(1)	20 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.209	Radiated Emission	Compliant
15.247 (a)(1)(iii)	Number of Hopping Frequency	Compliant
15.247 (a)(1)(iii)	Time of Occupancy	Compliant
15.247 (a)(1)	Frequency Separation	Compliant
15.207	Conducted Emission	N/A

Note: The EUT can not use the BT function with charging





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 RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2019	Jun. 26, 2020
EXA Signal Analyzer			MY53470504	Dec. 20, 2018	Dec. 19, 2019
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Feb. 27, 2019	Feb. 26, 2020
Attenuator	ZHINAN	E-002	N/A	Aug. 26, 2019	Aug. 25, 2020
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Jun. 12, 2019	Jun. 26, 2020
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 25, 2018	Oct. 24, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2019





7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

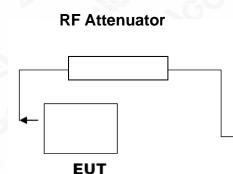
For peak power test:

- 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 \geq RBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

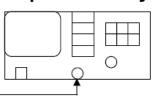
Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

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

PEAK POWER TEST SETUP



Spectrum Analyzer



RF Cable





7.3. LIMITS AND MEASUREMENT RESULT

PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION						
Frequency (GHz)Peak Power (dBm)Applicable Limits (dBm)Pass or Fail						
2.402	-2.560	30	Pass			
2.441	-1.419	30	Pass			
2.480	-1.032	30	Pass			

Peak Search Avg Type: Log-Pw Avg|Hold:>100/100 0000 GHz Trig: Free Run Atten: 30 dB PNO: Fast 🖵 IFGain:Low Next Peak Mkr1 2.4 -2.560 dBm 10 dB/div Ref 20.00 dBm Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→RefLvl More 1 of 2 Center 2.402000 GHz #Res BW 1.5 MHz Span 5.000 MHz 1.000 ms (1001 pts) #VBW 5.0 MHz Sweep

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CH0





CH39

CH78





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FOR II /4-DQPSK MODULATION						
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail			
2.402	-1.730	30	Pass			
2.441	-0.627	30	Pass			
2.480	-0.188	30	Pass			

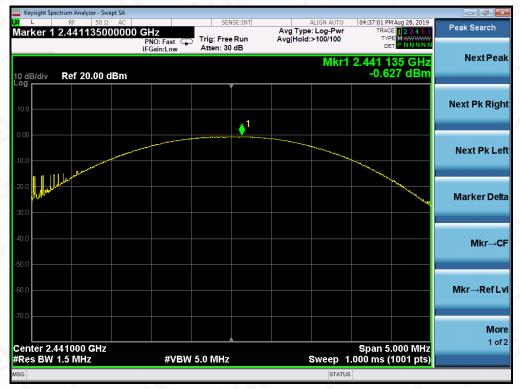








CH39



CH78

arker 1 2.48011000000	OGHZ PNO: Fast IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 123456 TYPE M DET P N N N N N	Peak Search
dB/div Ref 20.00 dBm			Mkr1	2.480 110 GHz -0.188 dBm	Next Pea
.					Next Pk Rig
.00		<u> </u>			Next Pk Le
					Marker De
0.0					Mkr→(
0.0					Mkr→RefL
0.0					MKI KCI L
enter 2.480000 GHz Res BW 1.5 MHz	#VBV	v 5.0 MHz	Sweep 1	Span 5.000 MHz .000 ms (1001 pts)	1 o



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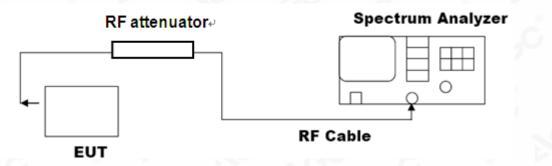


8. 20DB BANDWIDTH

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)



8.3. LIMITS AND MEASUREMENT RESULTS

MEASUREMENT RESULT FOR GFSK MOUDULATION							
Annlinghle Limite		Measurement Result					
Applicable Limits	Test Data	Criteria					
	Low Channel	0.8513	PASS				
N/A	Middle Channel	0.8381	PASS				
	High Channel	0.8970	PASS				





TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL





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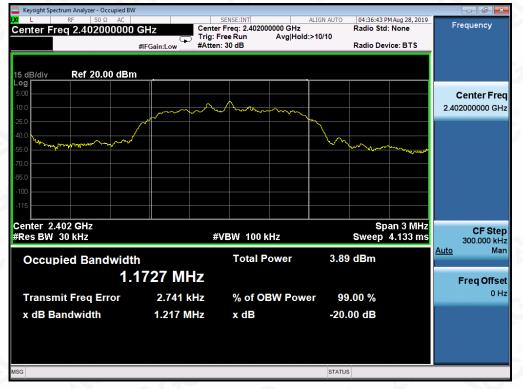


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



MEASUREMENT RESULT FOR II /4-DQPSK MODULATION							
Annlinghla Limita		Measurement Result					
Applicable Limits	Test Data	(MHz)	Criteria				
	Low Channel	1.217	PASS				
N/A	Middle Channel	1.205	PASS				
	High Channel	1.213	PASS				

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL







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.
- 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							
Annihashisita	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					





TEST RESULT FOR ENTIRE FREQUENCY RANGE TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF GFSK MODULATION IN LOW CHANNEL



 Mithod D _ Incorrection October (Concertion)
 PNC: Fast (FGain:Low
 Trig: Free Run Atten: 30 dB
 Avg|Hold:>100/100
 Trig: Free Run (Concertion)
 Next Peak

 10 dB/div
 Ref 20.00 dBm
 -50.680 dBm
 -50.680 dBm
 Next Pk Right

 10 dB/div
 Ref 20.00 dBm
 -50.680 dBm
 Next Pk Right

 10 dB/div
 Ref 20.00 dBm
 -50.680 dBm
 Next Pk Right

 10 dB/div
 Ref 20.00 dBm
 -50.680 dBm
 Next Pk Right

 10 dB/div
 Ref 20.00 dBm
 -50.680 dBm
 Next Pk Right

 10 dB/div
 Ref 20.00 dBm
 -50.680 dBm
 Next Pk Right

 40 dB/div
 Ref 20.00 dBm
 -50.680 dBm
 Next Pk Right

 40 dB/div
 Ref 20.00 dHz
 -50.680 dBm
 Next Pk Left

 40 dB/div
 Ref 20.00 kHz
 *VBW 300 kHz
 Stop 25.00 GHz

 50 dB/div
 -40.162 dBm
 -40.162 dBm
 Marker Delta

 11 d1 f1 d803 6 GHz
 -40.162 dBm
 -40.162 dBm
 Mitra

 2 N 1 f1 d1 f1 d803 6 GHz
 -40.162 dBm
 Mitra
 Mitra

 2 N 1 f1 d1 f1 d803 6 GHz
 -40.162 dBm
 Mitra
 Mitra

 8 0
 I1 f1 d1 d1 d1 d1 d1 d1 d1 d1 d1 d1



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TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN MIDDLE CHANNEL

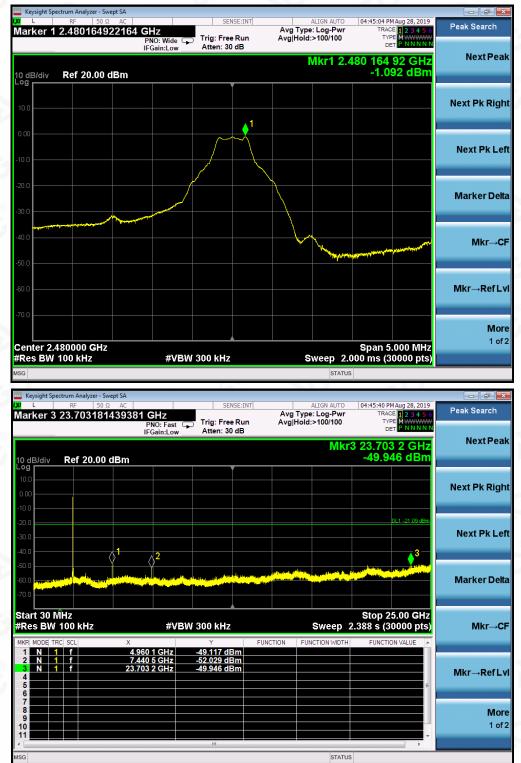
Mkr→RefLvl More 1 of 2 STATUS



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TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN HIGH CHANNEL

Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit. The GFSK modulation is the worst case and only those data recorded in the report.



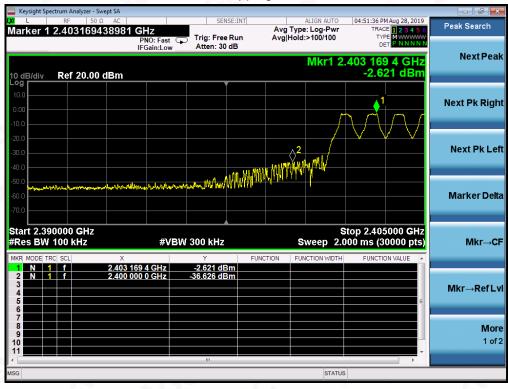


TEST RESULT FOR BAND EDGE



GFSK MODULATION IN LOW CHANNEL

Hopping on



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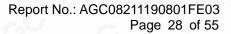
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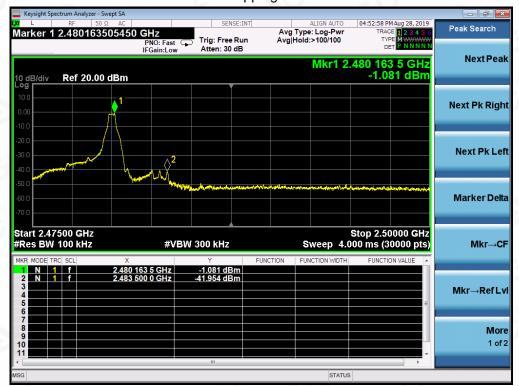
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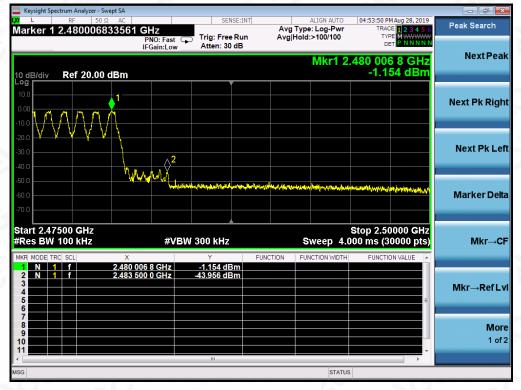






GFSK MODULATION IN HIGH CHANNEL Hopping off

Hopping on



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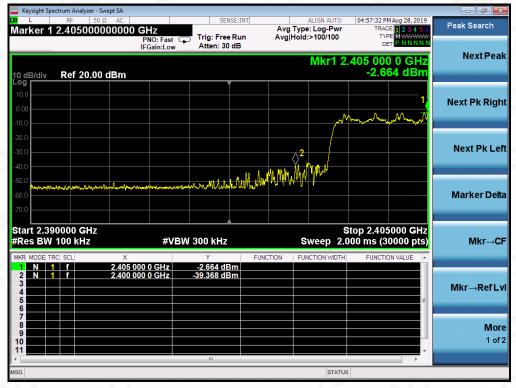
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π /4-DQPSK MODULATION IN LOW CHANNEL Hopping off

Hopping on

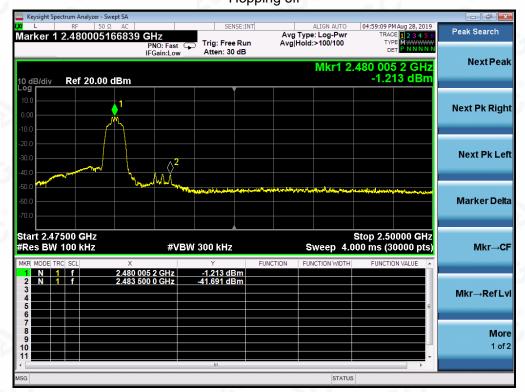


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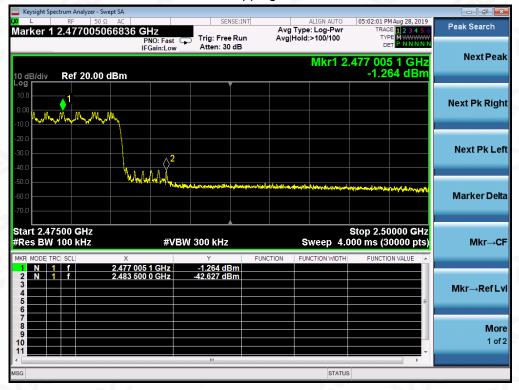
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π /4-DQPSK MODULATION IN HIGH CHANNEL Hopping off

Hopping on



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10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

- 1. 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 emissions, 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.
- 5. 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.





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

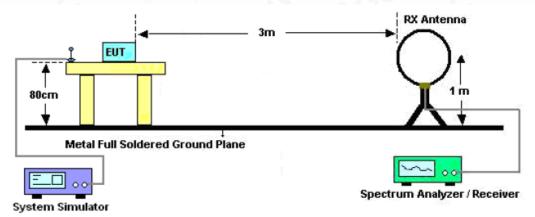
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP



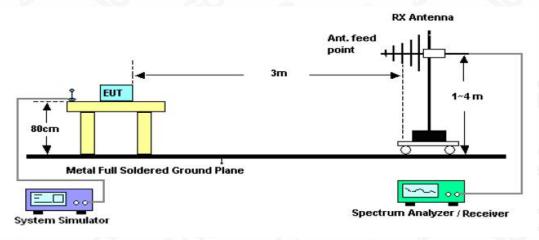


10.2. TEST SETUP

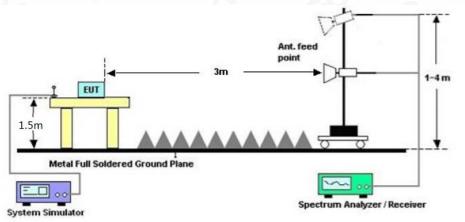
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz





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Service Hotline:400 089 2118

10.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/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

No emission found between lowest internal used/generated frequencies to 30MHz.





RADIATED EMISSION BELOW 1GHZ

EUT	Bluetooth Headphone	Bluetooth Headphone Model Name	
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.4300	25.94	14.71	40.00	14.06	100	28	Horizontal
2	82.3800	18.45	10.17	40.00	21.55	150	67	Horizontal
3	173.5600	24.72	13.61	43.50	18.78	150	16	Horizontal
4	288.0200	26.70	16.16	46.00	19.30	150	62	Horizontal
5	419.9400	32.65	20.25	46.00	13.35	100	294	Horizontal
6	726.4600	33.16	26.61	46.00	12.84	100	236	Horizontal

RESULT: PASS





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EUT	Bluetooth Headphone	Model Name	BT775			
Temperature	25°C	Relative Humidity	55.4%			
Pressure	960hPa	Test Voltage	Normal Voltage			
Test Mode	Mode 4	Antenna	Vertical			



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.4300	29.96	14.71	40.00	10.04	100	9	Vertical
2	78.5000	19.45	10.46	40.00	20.55	100	58	Vertical
3	141.5500	21.00	14.88	43.50	22.50	150	143	Vertical
4	283.1700	22.30	16.26	46.00	23.70	150	297	Vertical
5	432.5500	27.00	20.59	46.00	19.00	100	141	Vertical
6	690.5700	32.55	25.84	46.00	13.45	100	136	Vertical

RESULT: PASS

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

2. All test modes had been pre-tested. The mode 4 is the worst case and recorded in the report.





RADIATED EMISSION ABOVE 1GHZ

EUT	Bluetooth Headphone	Model Name	BT775
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.000	56.85	0.08	56.93	74	-17.07	peak 💿
4804.000	50.66	0.08	50.74	54	-3.26	AVG
7206.000	46.31	2.21	48.52	74	-25.48	peak
7206.000	39.06	2.21	41.27	54	-12.73	AVG
NOV.	0				0.5	
Remark:			0			
actor = Anter	nna Factor + Cable	e Loss – Pre-	amplifier.	0		

EUT	Bluetooth Headphone	Model Name	BT775
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4804.000	55.91	0.08	55.99	74	-18.01	peak
4804.000	49.64	0.08	49.72	54	-4.28	AVG
7206.000	42.21	2.21	44.42	74	-29.58	peak
7206.000	36.77	2.21	38.98	54	-15.02	AVG
			0	C	0	

Factor = Antenna H



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EUT	Bluetooth Headphone	Model Name	BT775
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4882.000	56.61	0.14	56.75	74	-17.25	peak
4882.000	50.76	0.14	50.9	54	-3.1	AVG
7323.000	46.98	2.36	49.34	74	-24.66	peak
7323.000	40.42	2.36	42.78	54	-11.22	AVG
0				0		
mark:	3				8	

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	Bluetooth Headphone	Model Name	BT775
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

						-
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4882.000	55.52	0.14	55.66	74	-18.34	peak
4882.000	49.88	0.14	50.02	54	-3.98	AVG
7323.000	44.91	2.36	47.27	74	-26.73	peak
7323.000	40.75	2.36	43.11	54	-10.89	AVG
<u> </u>			64	C		

Factor = Antenna Factor + Cable Loss - Pre-amplifier.



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EUT	Bluetooth Headphone	Model Name	BT775
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.000	57.57	0.22	57.79	74	-16.21	peak
4960.000	50.13	0.22	50.35	54	-3.65	AVG
7440.000	45.78	2.64	48.42	74	-25.58	peak
7440.000	39.69	2.64	42.33	54	-11.67	AVG
0			CU C	®		
C	8			C.	3	

EUT	Bluetooth Headphone	Model Name	BT775
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.000	54.68	0.22	54.9	74	-19.1	peak
4960.000	46.92	0.22	47.14	54	-6.86	AVG
7440.000	42.11	2.64	44.75	74	-29.25	peak
7440.000	36.35	2.64	38.99	54	-15.01	AVG
0		- 6 ⁰	0			

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

RESULT: PASS

Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report. 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 GFSK modulation is the worst case and recorded in the report.



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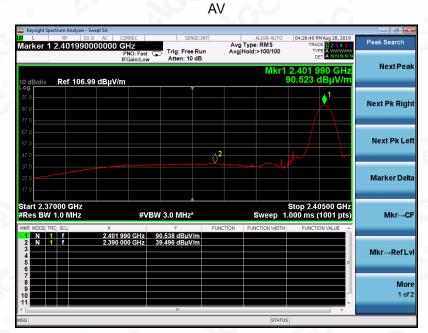


EUT	Bluetooth Headphone	Model Name BT775		
Temperature	25°C	Relative Humidity55.4%		
Pressure	960hPa	Test Voltage Normal Voltage		
Test Mode	Mode 1	Antenna	Horizontal	

TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

PK





RESULT: PASS



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EUT	Bluetooth Headphone	Model Name BT775	
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

PK



AV



RESULT: PASS

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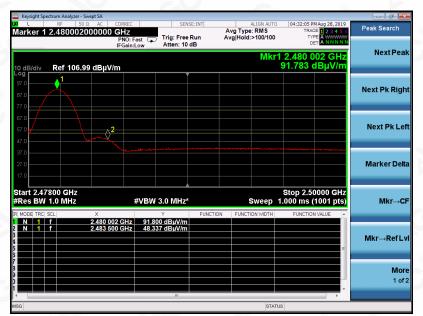
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EUT	Bluetooth Headphone	Model Name	BT775
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

PK



AV



RESULT: PASS

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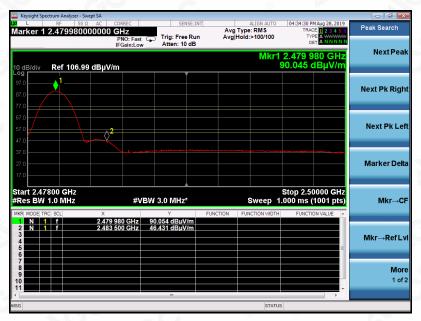
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EUT	Bluetooth Headphone	Model Name	BT775
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical



ΡK

AV



RESULT: PASS

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F. All test modes had been pre-tested. The GFSK modulation is the worst case and recorded in the report.



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11. NUMBER OF HOPPING FREQUENCY

11.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.

2. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

3. VBW \geq RBW. Sweep: Auto. Detector function: Peak. Trace: Max hold.

4. Allow the trace to stabilize.

11.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

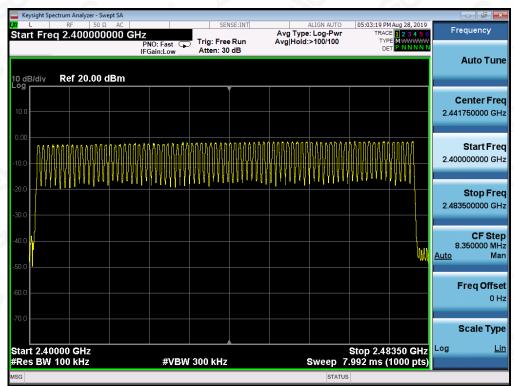
Same as described in section 8.2

11.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

11.4. LIMITS AND MEASUREMENT RESULT

TOTAL NO. OF HOPPING CHANNEL	LIMIT (NO. OF CH)	MEASUREMENT (NO. OF CH)	RESULT
	>=15	79	PASS



TEST PLOT FOR NO. OF TOTAL CHANNELS

Note: The GFSK modulation is the worst case and recorded in the report.



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12. TIME OF OCCUPANCY (DWELL TIME)

12.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: Zero span, centered on a hopping channel.

2. RBW shall be \leq channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.

3. Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.

4. Detector function: Peak. Trace: Max hold.

5. Use the marker-delta function to determine the transmit time per hop.

6. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

(Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) \times (period specified in the requirements / analyzer sweep time)

7. The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements.

12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

12.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

12.4. LIMITS AND MEASUREMENT RESULT

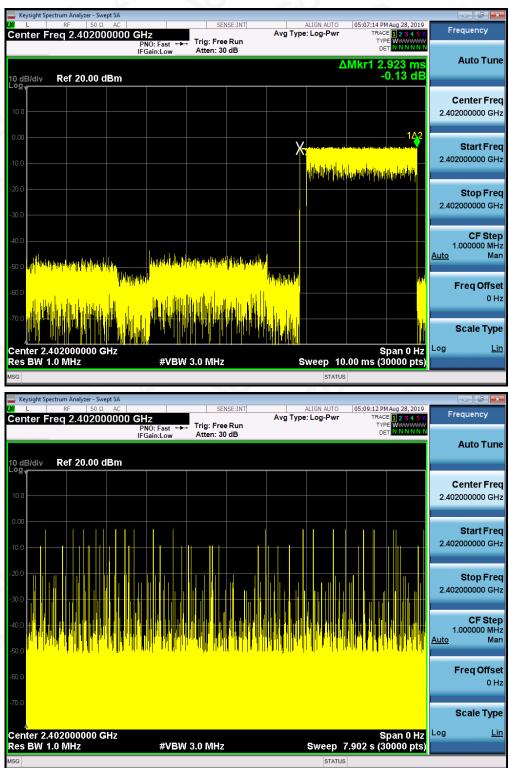
Channel	Time of Pulse for DH5 (ms)	Number of hops in the period specified in the requirements	Sweep Time (ms)	Limit (ms)
Low	2.923	26*4	303.992	400
Middle	2.912	29*4	337.792	400
High	2.920	28*4	327.040	400

Note: The π /4-DQPSK modulation is the worst case and recorded in the report.



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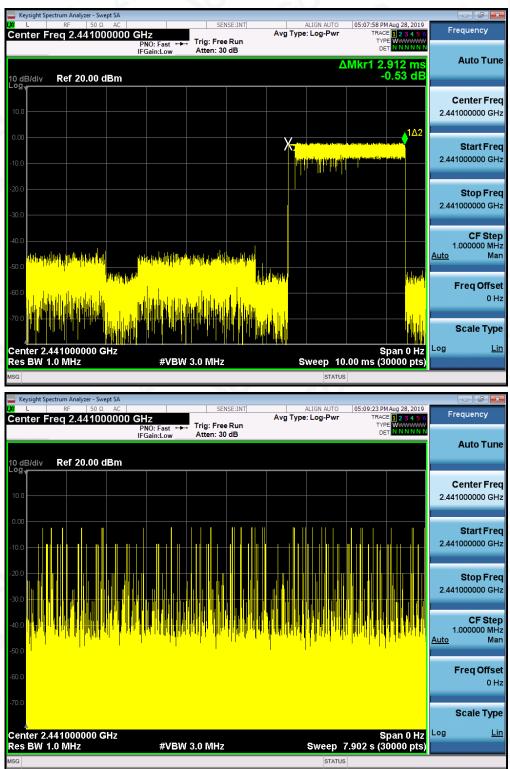
TEST PLOT OF LOW CHANNEL



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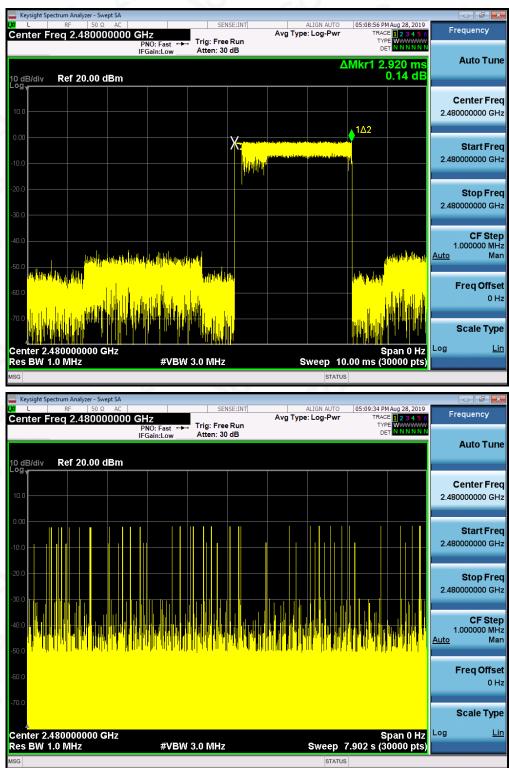
TEST PLOT OF MIDDLE CHANNEL



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TEST PLOT OF HIGH CHANNEL



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13. FREQUENCY SEPARATION

13.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: Wide enough to capture the peaks of two adjacent channels.

2. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.

3. Video (or average) bandwidth (VBW) \geq RBW.

4. Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

13.4. LIMITS AND MEASUREMENT RESULT

CHANNEL	CHANNEL SEPARATION	LIMIT	RESULT
	KHz	KHz	Daga
CH01-CH02	1001	>=25 KHz or 2/3 20 dB BW	Pass

TEST PLOT FOR FREQUENCY SEPARATION

05:04:10 PM Aug 28, 2019 ALIGN AUTO Frequency eg 2.400000000 GHz Avg Type: Log-Pwr Avg|Hold:>100/100 Trig: Free Run IEGain:Low Atten: 30 dB Auto Tune Mkr2 2.403 003 GHz -3.294 dBm Ref 20.00 dBm **Center Freq** 2.402500000 GHz Start Freq 2.40000000 GHz Stop Freq 2.405000000 GHz Start 2.400000 GHz Stop 2.405000 GHz **CF** Step #VBW 100 kHz #Res BW 30 kHz Sweep 5.328 ms (1000 pts) 500.000 kH Auto Ma 2.402 002 GH 2.403 003 GH Freq Offset 0 H Scale Type Log

Note: The π /4-DQPSK modulation is the worst case and recorded in the report.



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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION TEST SETUP ABOVE 1GHZ





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APPENDIX B: PHOTOGRAPHS OF EUT TOP VIEW OF EUT

BOTTOM VIEW OF EUT





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FRONT VIEW OF EUT



BACK VIEW OF EUT





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LEFT VIEW OF EUT



RIGHT VIEW OF EUT





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OPEN VIEW OF EUT



VIEW OF BATTERY

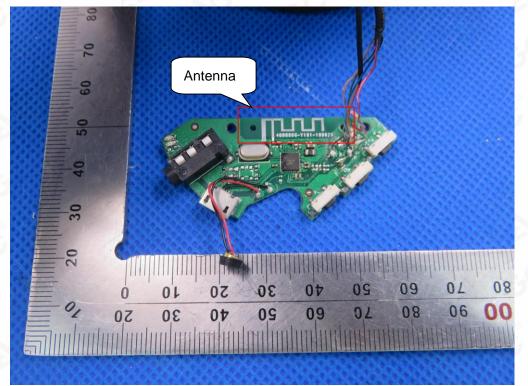




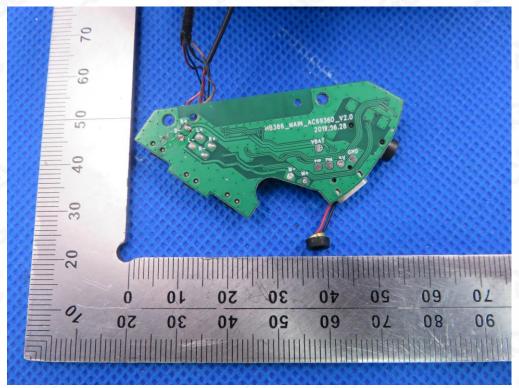
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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



----END OF REPORT----



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