

FCC Test Report

Report No.: AGC08574210401FE03

FCC ID	: 2ATIHEPT25
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: wireless earbuds
BRAND NAME	: AUKEY
MODEL NAME	: EP-T25
APPLICANT	: Aukey Technology Co., Ltd
DATE OF ISSUE	: Apr. 13, 2021
STANDARD(S)	: FCC Part 15.247
REPORT VERSION	: V1.0

Attestation of Global Concernent Shenzhen) Co., Ltd

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	. /	Apr. 13, 2021	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	Aukey Technology Co., Ltd		
Address	Room 102, Building P09, South China City Electronic trading center, Longgang District, Shenzhen, 518111 China		
Manufacturer	Aukey Technology Co., Ltd		
Address	Room 102, Building P09, South China City Electronic trading center, Longgang District, Shenzhen, 518111 China		
Factory	Aukey Technology Co., Ltd		
Address	Room 102, Building P09, South China City Electronic trading center, Longgang District, Shenzhen, 518111 China		
Product Designation	wireless earbuds		
Brand Name	AUKEY		
Test Model	EP-T25		
Date of test	Apr. 02, 2021 to Apr. 13, 2021		
Deviation	No any deviation from the test method		
Condition of Test Sample	ole 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

Then Hurry

Thea Huang Project Engineer

Apr. 13, 2021

Max Zhans

Reviewed By

Max Zhang Reviewer

Apr. 13, 2021

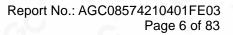
Approved By

Forrest Lei Authorized Officer

Apr. 13, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "wireless earbuds". It is designed by way of utilizing the GFSK, π /4-DQPSK and 8DPSK technology to achieve the system operation.

A major technical description of EUT is described as following

	9
Operation Frequency	2.402 GHz to 2.480 GHz
RF Output Power	4.083dBm (Max)
Bluetooth Version	V5.0
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps
Number of channels	79
Hardware Version	V5.0
Software Version	V1107W10
Antenna Designation	FPC Antenna (Comply with requirements of the FCC part 15.203)
Antenna Gain	1.9dBi
Power Supply	DC 3.7V by battery or DC 5V by adapter
Note: 1 The FLIT doesn't su	Inport BLE

Note: 1. The EUT doesn't support BLE.

2. The EUT includes left and right channel earphones, the schematic diagram is the same, but the PCB Layout is different. The RF output power of each earphone has been tested and recorded in the report. For other test items, due to the higher power, the right headset has been tested and recorded in this report, which is the worst case.

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
G ^U C	0	2402 MHz
		2403 MHz
	38	2440 MHz
2402~2480MHz	39	2441 MHz
e	40	2442 MHz
	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, 00, 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: 2ATIHEPT25** 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.

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, $Uc = \pm 0.8$ dB
- Uncertainty of spurious emissions, conducted, Uc = ±2.7dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %
- Uncertainty of Dwell Time: $Uc = \pm 2\%$
- Uncertainty of Frequency: $Uc = \pm 2 \%$

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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

Link Mode Hon	ping LE Test RW			(ALLD)	REALTEK
		Pkt-Tx (for MP)	NA 54	V Mode	Hot Key
hannel	78				HCI Reset
acket Type	3DH5 -	Exec	Stop Clear	r Report	Test Mode
'ayload Type	PRBS9 +	Item	Value		Read Thermal
x Packet Count	0	Tx bits Tx Pkt Count	19349992 2369		Patch code
l x Level	0 -	1x Pkt Lount	2269		GetChipInto ShowTxPower
ssage			A State		Power Tracking Se
itop hopping mod itop hopping mod itop hopping mod itop hopping mod	: Begin e : Begin			^	© ON Get 0 Get BT Stage Read BD Address
Stop hopping mod Enable TRX Threa	ad Mode!!				Load Script
ActionControlExcu	te[Pkt-Tx (for MP)] Success!!			Y	Loss seles

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure:

EUT

Conducted Emission Configure:

	0	
EUT		AE

5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	wireless earbuds	EP-T25	2ATIHEPT25	EUT
2	Control Box	USB-TTL	N/A	AE

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	Not applicable

Note: The EUT is powered by battery. The EUT can not use the BT function with charging

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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 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. 07, 2020	Dec.06, 2021
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. 08,2021	Jan. 07,2023
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

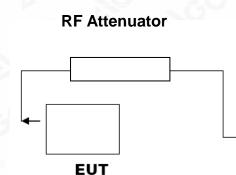
For peak power test:

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

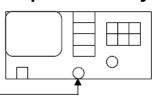
Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

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

PEAK POWER TEST SETUP



Spectrum Analyzer



RF Cable

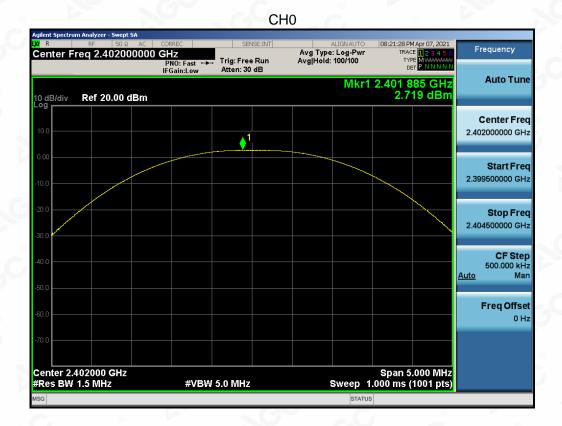
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7.3. LIMITS AND MEASUREMENT RESULT

The right ear:

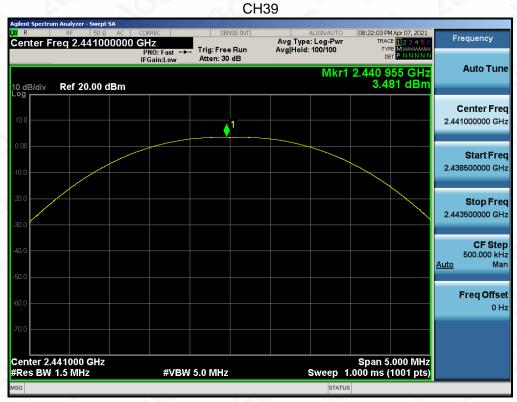
PEAK OUTPUT POWER MEASUREMENT RESULT						
FOR GFSK MOUDULATION Frequency Peak Power Applicable Limits Pass or Fail (GHz) (dBm) (dBm)						
2.402	2.719	21	Pass			
2.441	3.481	21	Pass			
2.480	3.929	21	Pass			



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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	1.820	21	Pass		
2.441	2.814	21	Pass		
2.480	3.514	21	Pass		

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enter 2.480000 GHz Res BW 1.5 MHz	4) (D14)	5.0 MHz	<u> </u>	Span 5.000 MHz .000 ms (1001 pts)	
70.0					
60.0					Freq Offs
40.0					CF Sto 500.000 k <u>Auto</u> M
30.0					2.482500000 G
20.0					Stop Fr
10.0					Start Fr 2.477500000 G
10.0		1			2.480000000 G
0 dB/div Ref 20.00 dBm				3.514 dBm	Center Fr
Center Freq 2.48000000	PNO: Fast +++ IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Hold: 100/100	TYPE MWWWW DET P NNNNN 2.480 165 GHz	Auto Tu

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PEAK OUTPUT POWER MEASUREMENT RESULT					
	FOR 8-DPSK MODULA	TION			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail		
2.402	2.480	21	Pass		
2.441	3.357	21	Pass		
2.480	4.083	21	Pass		

CH0



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 Attestation of Global Compliance(Shenzhen)Co., Ltd

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 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com

Report No.: AGC08574210401FE03 Page 19 of 83





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The left ear:

	PEAK OUTPUT POWER MEASUREMENT RESULT					
	FOR GFSK MOUDULAT	ΓΙΟΝ				
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail			
2.402	2.555	21	Pass			
2.441	3.549	21	Pass			
2.480	4.015	21	Pass			

CH0



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Report No.: AGC08574210401FE03 Page 21 of 83





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	PEAK OUTPUT POWER MEAS FOR Π/4-DQPSK MOI		
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	2.260	21	Pass
2.441	2.937	21	Pass
2.480	3.365	21	Pass



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CH78

Agilent Spectrum Analyzer - Swept SA					
X R RF 50 Ω AC Center Freq 2.480000000		SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	07:59:43 PM Apr 07, 2021 TRACE 1 2 3 4 5 6	Frequency
Center Freq 2.48000000	PNO: Fast +++	Trig: Free Run	Avg Hold: 100/100	TYPE MWAAAAAAA DET P N N N N N	
	IFGain:Low	Atten: 30 dB			Auto Tune
			Mkr1	2.480 175 GHz	Autorune
10 dB/div Ref 20.00 dBm				3.365 dBm	
					0
10.0					Center Free
10.0		1			2.480000000 GH
0.00					Start Free
and the second se			· · · · · · · · · · · · · · · · · · ·		2.477500000 GH
-10.0					
-20.0					Stop Free
					2.482500000 GH:
-30.0					
					CF Ster
-40.0					500.000 kH
					<u>Auto</u> Mar
-50.0					
					Freq Offse
-60.0					он:
-70.0					
Center 2.480000 GHz				Span 5.000 MHz	
#Res BW 1.5 MHz	#VBW	5.0 MHz	Sweep 1	.000 ms (1001 pts)	
MSG			STATU		
199 			514103	5	

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PEAK OUTPUT POWER MEASUREMENT RESULT					
	FOR 8-DPSK MODULA	TION			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail		
2.402	2.806	21	Pass		
2.441	3.472	21	Pass		
2.480	3.971	21	Pass		

CH0



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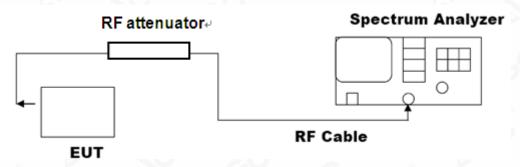


8. 20DB BANDWIDTH

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						
Applicable Limite		Measurement Result				
Applicable Limits	Test Data (MHz)		Criteria			
	Low Channel	1.022	PASS			
N/A	Middle Channel	0.965	PASS			
	High Channel	1.024	PASS			

08:21:22 PM Apr 07, 2021 Radio Std: None Frequency Center Freq: 2.402000000 GHz 402000000 GHz Avg|Hold>100/100 Trig: Free Run #Atten: 30 dB Radio Device: BTS Ref 20.00 dBm **Center Freq** 2.402000000 GHz Center 2.402 GHz #Res BW 30 kHz Span 3 MHz Sweep 3.2 ms **CF** Step #VBW 100 kHz 300.000 kH <u>Auto</u> Ma Occupied Bandwidth **Total Power** 9.76 dBm 877.61 kHz Freq Offset 0 Hz 33.018 kHz **Transmit Freq Error OBW Power** 99.00 % x dB Bandwidth 1.022 MHz x dB -20.00 dB

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 II /4-DQPSK MODULATION						
Measurement Result						
Applicable Limits	Test Data	Test Data (MHz)				
N/A	Low Channel	1.282	PASS			
	Middle Channel	1.283	PASS			
	High Channel	1.316	PASS			

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

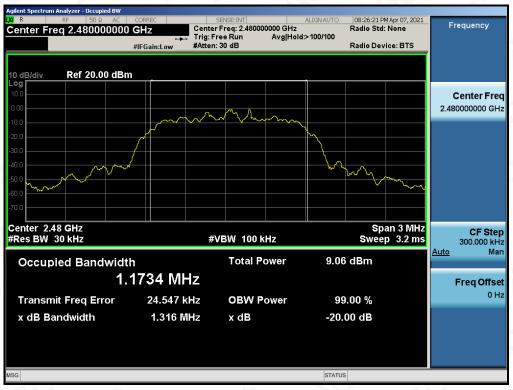


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

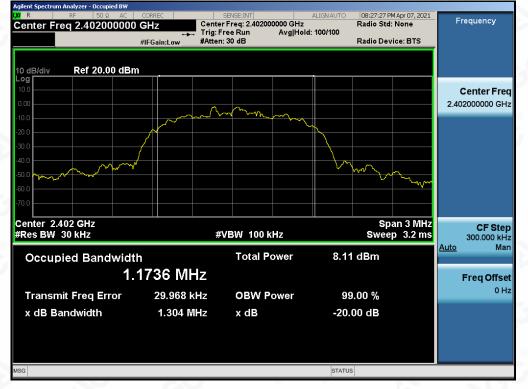


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MEASUF	REMENT RESULT FOR 8-	DPSK MODULATION					
Applicable Limita		Measurement Result					
Applicable Limits	Test Dat	Test Data (MHz)					
	Low Channel	1.304	PASS				
N/A	Middle Channel	1.303	PASS				
-C	High Channel	1.302	PASS				

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

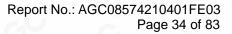
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEAS	SUREMENT RESULT			
	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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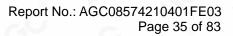




TEST RESULT FOR ENTIRE FREQUENCY RANGE TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 8DPSK MODULATION IN LOW CHANNEL



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	m Analyzer - Swep	it SA								
LXI R	RF 50 9		REC	SENSE			ALIGN AUTO		1 Apr 07, 2021	Frequency
Center F	req 13.741	750000 G	Hz	. Trig: Free F		Avg iype Avg Hold:	: Log-Pwr 10/10	TY	E 123456	
			NO: Fast 🔸	Atten: 30 d		in ghiona.		D		
							Mize	1 24 02	57GHz	Auto Tune
							IVINI	1 24.52	40 dBm	
10 dB/div Log	Ref 20.00	dBm						-45.77	to ubili	
10.0										Conton From
										Center Freq
0.00										13.741750000 GHz
-10.0										
-20.0									-19.58 dBm	
										Start Freq
-30.0										2.483500000 GHz
-40.0									<u> </u>	
-50.0										
-60.0 4.44	المستخدرية ال	و خان الله عليه ال	A. Acabarta a		and the second second	ability in the	in the second			Stop Freq
-bU.U College	The second second second second		10 A. A. A.	ي الأركانية الأربية						25.00000000 GHz
-70.0										
Start 2.48									5.00 GHz	CF Step
#Res BW	100 kHz		#VBW	300 kHz			Sweep 2	2.152 s (3	0000 pts)	2.251650000 GHz Auto Man
MKR MODE TH	RC SCL	×		Y	FUNCTIO	DN FUN	ICTION WIDTH	FUNCTIO	IN VALUE	Auto Man
1 N 1	f	24.925	7 GHz	-49.740 dBn	n					
2										Freq Offset
4										0 Hz
5										0112
6										
8										
9										
10										
									_ _	
MSG							OTATIO			
MSG							STATUS			

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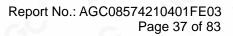
 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com
 Web: http://cn.agc-cert.com/



Agilent Spectrum Analyzer - Swep					
Center Freq 2.4410		SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	08:32:03 PM Apr 07, 2021 TRACE 1 2 3 4 5 6	Frequency
Center Freq 2.44 10	PNO: Wide 🕶	Trig: Free Run Atten: 30 dB	Avg Hold: 10/10	TYPE MUMANANA DET P N N N N N	
	IFGain:Low	Atten: 30 dB			Auto Tune
			IVIKET 2	440 874 5 GHz. 1.216 dBm	
10 dB/div Ref 20.00	dBm			1.210 GBM	
10.0		1			Center Freq
0.00					2.441000000 GHz
-10.0	Mar		Manument of the second		
-20.0					
-30.0					Start Freq
-40.0	a a aller			A	2.439500000 GHz
-50.0 MMMMMM				and the second s	
00.0				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Stop Freq
-60.0					2.442500000 GHz
-70.0					
Center 2.441000 GHz	Z			Span 3.000 MHz	CF Step
#Res BW 100 kHz		V 300 kHz	Sweep 2.0	000 ms (30000 pts)	300.000 kHz
MKR MODE TRC SCL	×	Y FI	UNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
1 N 1 f	2.440 874 5 GHz	1.216 dBm			
2					Freq Offset
4 5					0 Hz
6					
8					
9					
10					
MSG					
			STATUS		
Agilent Spectrum Analyzer - Swep		OTHER MIT			
LXI R RF 50 9	Ω AC CORREC	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	08:32:12 PM Apr 07, 2021 TRACE 12 3 4 5 6	Frequency
	Ω AC CORREC 000000 GHz PN0: Fast ↔	Trig: Free Run	ALIGNAUTO		Frequency
LXI R RF 50 9	Ω AC CORREC		ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	08:32:12 PM Apr 07, 2021 TRACE 123456 TYPE MUNAWAWA DET P.N.N.N.N.N	Frequency Auto Tune
XM RF 50 3 Center Freq 1.2150	α AC CORREC 000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	08:32:12 PM Apr 07, 2021 TRACE 2 3 4 5 6 TYPE MWWWWW DET P NNNN N 1 2.339 88 GHz	
LXI R RF 50 9	α AC CORREC 000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	08:32:12 PM Apr 07, 2021 TRACE 123456 TYPE MUNAWAWA DET P.N.N.N.N.N	
XX R S0 (2000) Center Freq 1.2150 50 (2000) 10 dB/div Ref 20.00	α AC CORREC 000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	08:32:12 PM Apr 07, 2021 TRACE 2 3 4 5 6 TYPE MWWWWW DET P NNNN N 1 2.339 88 GHz	
XM R S0 6 Center Freq 1.2150 S0 6 10 dB/div Ref 20.00	α AC CORREC 000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	08:32:12 PM Apr 07, 2021 TRACE 2 3 4 5 6 TYPE MWWWWW DET P NNNN N 1 2.339 88 GHz	Auto Tune
XM R S0 (2000) Center Freq 1.2150 100 10 dB/div Ref 20.00 10 dB/div Ref 20.00	α AC CORREC 000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	08:32:12 PM Apr 07, 2021 TRACE 2 3 4 5 6 TYPE MWWWWW DET P NNNN N 1 2.339 88 GHz	Auto Tune Center Freq
XM R S0 (2000) Center Freq 1.2150 50 (2000) 10 dB/div Ref 20.00 10 0 0.00	α AC CORREC 000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	08:32:12 PM Apr 07, 2021 TRACE 2 3 4 5 6 TYPE MWWWWW DET P NNNN N 1 2.339 88 GHz	Auto Tune Center Freq 1.215000000 GHz
XM R S0 (3) Center Freq 1.2150 10 10 dB/div Ref 20.00 10.0	α AC CORREC 000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	08:32:12 PM Apr 07, 2021 TRACE 0.2 3 4 5 6 TYPE MAXMOUNT DET P. N.N.N.N.N 1 2.339 88 GHz -56.984 dBm	Auto Tune Center Freq 1.21500000 GHz Start Freq
W R RF 50 g Center Freq 1.2150 10 dB/div Ref 20.00 10 dB/div Ref 20.00 10.0 0.00	α AC CORREC 000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	08:32:12 PM Apr 07, 2021 TRACE 0.2 3 4 5 6 TYPE MAXMOUNT DET P. N.N.N.N.N 1 2.339 88 GHz -56.984 dBm	Auto Tune Center Freq 1.215000000 GHz
X/V R RF S0 4 Center Freq 1.2150 Ref 20.00 10 dB/div Ref 20.00 10.0	α AC CORREC 000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	08:32:12 PM Apr 07, 2021 TRACE 0.2 3 4 5 6 TYPE MAXMOUNT DET P. N.N.N.N.N 1 2.339 88 GHz -56.984 dBm	Auto Tune Center Freq 1.21500000 GHz Start Freq
D/l R RF S0.4 Center Freq 1.2150 Log Ref 20.00 10.0 Ref 20.00 10.0 Ref 20.00 20.0 Ref 20.00	2 AC CORREC 100000 GHZ PN0: Fast → IFGain:Low dBm	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	08:32:12 PM Apr 07, 2021 TRACE 0.2 3 4 5 6 TYPE MAXMOUNT DET P. N.N.N.N.N 1 2.339 88 GHz -56.984 dBm	Auto Tune Center Freq 1.21500000 GHz Start Freq 30.000000 MHz Stop Freq
D/ R RF S0.4 Center Freq 1.2150 10.0 Ref 20.00 10.0 <thref 20.00<="" <="" th=""><th></th><th>Trig: Free Run</th><th>ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr</th><th>08:32:12 PM Apr 07, 2021 TRACE 0.2 3 4 5 6 TYPE MAXMOUNT DET P. N.N.N.N.N 1 2.339 88 GHz -56.984 dBm</th><th>Auto Tune Center Freq 1.21500000 GHz Start Freq 30.000000 MHz</th></thref>		Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	08:32:12 PM Apr 07, 2021 TRACE 0.2 3 4 5 6 TYPE MAXMOUNT DET P. N.N.N.N.N 1 2.339 88 GHz -56.984 dBm	Auto Tune Center Freq 1.21500000 GHz Start Freq 30.000000 MHz
D/l R RF S0.4 Center Freq 1.2150 Log Ref 20.00 10.0 Ref 20.00 10.0 Ref 20.00 20.0 Ref 20.00		Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	08:32:12 PM Apr 07, 2021 TRACE 0.2 3 4 5 6 TYPE MAXMOUNT DET P. N.N.N.N.N 1 2.339 88 GHz -56.984 dBm	Auto Tune Center Freq 1.21500000 GHz Start Freq 30.000000 MHz Stop Freq
W R RF S0.4 Center Freq 1.2150 10 dB/div Ref 20.00 10 dB/div Ref 20.00 10.0 10 0 10.0 10.0 10 0 10.0 10.0 20.0 10.0 10.0 20.0 10.0 10.0 20.0 10.0 10.0 20.0 10.0 10.0 20.0 10.0 10.0 20.0 10.0 10.0 20.0 10.0 10.0 20.0 10.0 10.0 20.0 10.0 10.0 20.0 10.0 10.0 20.0 10.0 10.0 20.0 10.0 10.0 20.0 10.0 10.0 20.0 10.0 10.0 40.0 10.0 10.0 50.0 10.0 10.0 70.0 10.0 10.0 20.0 10.0 10.0 20.0 <t< th=""><th>AC CORREC OODOOO GHZ PRO: Fast → IFGain:Low dBm dBm</th><th>Trig: Free Run Atten: 30 dB</th><th>ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr</th><th>08:32:12 PM Apr 07, 2021 TRACE [] 28 4 5 6 TYPE [] 28 5 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</th><th>Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step</th></t<>	AC CORREC OODOOO GHZ PRO: Fast → IFGain:Low dBm dBm	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	08:32:12 PM Apr 07, 2021 TRACE [] 28 4 5 6 TYPE [] 28 5 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step
M R RF 50 g Center Freq 1.2150 Ref 20.00 10 dB/div Ref 20.00 -0 dB/div Ref 20.00 -10 dB/div Ref 20.00 -30 d	AC CORREC OODOOO GHZ PRO: Fast → IFGain:Low dBm dBm	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	06:32:12 PM Apr 07, 2021 TRACE []] 23 4 5 6 TYPE PM ANN NN DET PM NN NN 1 2.339 88 GHz -56.984 dBm -18.78 dBm -18.78 dBm -18.78 dBm	Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz
D/I R RF S0.4 Center Freq 1.2150 Center Freq 1.2150 10.0 Center Freq 1.2150 20.0 Center Freq 1.2150	Q AC CORREC 1000000 GHz PR0: Fast → IFGain:Low dBm IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	08:32:12 PM Apr 07, 2021 TRACE [] 28 4 5 6 TYPE [] 28 5 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step
W R RF S0 (2000) Center Freq 1.2150 100 100 100 10.0 0.00 0.00 100 100 10.0 0.00 0.00 100 100 100 -20.0 0.00 0.00 100		Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	08:32:12 PM Apr 07, 2021 TRACE [] 2 3 4 5 6 TYPE [] 2 4	Start Freq 30.00000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz Auto Man
DV R RF S0.4 Center Freq 1.2150 Center Freq 1.2150 10.0	Q AC CORREC 1000000 GHz PR0: Fast → IFGain:Low dBm IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	08:32:12 PM Apr 07, 2021 TRACE [] 2 3 4 5 6 TYPE [] 2 4	Auto Tune
D// R RF S0.4 Center Freq 1.2150 Center Freq 1.2150 10.0 Center Freq 1.2150 20.0 Center Freq 1.2150 -20.0 Center Freq 1.2150 -30.0 Center Freq 1.2150 -40.0 Center Freq 1.2150 -50.0 Center Freq 1.2150 -70.0 Center Freq 1.2150 Start 30 MHz Freq 1.2150 #Res BW 100 kHz MKR MODE TRC SCL 1 N 1 2 Center Freq 1.2150 3 Center Freq 1.2150 4 Center Freq 1.2150	Q AC CORREC 1000000 GHz PR0: Fast → IFGain:Low dBm IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	08:32:12 PM Apr 07, 2021 TRACE [] 2 3 4 5 6 TYPE [] 2 4	Start Freq 30.00000 GHz Start Freq 30.00000 MHz Stop Freq 2.40000000 GHz CF Step 237.000000 MHz Auto Man
W R RF S0 4 Center Freq 1.2150 Center Freq 1.2150 10 dB/div Ref 20.00	Q AC CORREC 1000000 GHz PR0: Fast → IFGain:Low dBm IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	08:32:12 PM Apr 07, 2021 TRACE [] 2 3 4 5 6 TYPE [] 2 4	Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz 2.400000000 GHz 2.400000000 GHz 237.000000 MHz Auto Man
W R RF S0.4 Center Freq 1.2150 Center Freq 1.2150 10.0	Q AC CORREC 1000000 GHz PR0: Fast → IFGain:Low dBm IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	08:32:12 PM Apr 07, 2021 TRACE [] 2 3 4 5 6 TYPE [] 2 4	Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz 2.400000000 GHz 2.400000000 GHz 237.000000 MHz Auto Man
DV R RF S0.4 Center Freq 1.2150 Center Freq 1.2150 10.0 Center Freq 1.2150 20.0 Center Freq 1.2150 -20.0 Center Freq 1.2150 -30.0 Center Freq 1.2150 -40.0 Center Freq 1.2150 -40.0 Center Freq 1.2150 -50.0 Center Freq 1.2150 -70.0 Center Freq 1.2150 Start 30 MHz Freq 2.2150 #Res BW 100 kHz MKR MKR MODE Freq 2.2150 1 F 2 Center Freq 2.2150 4 Center Freq 2.2150 4 Center Freq 2.2150 5 Center Freq 2.2150 6 Center Freq 2.2150 7	Q AC CORREC 1000000 GHz PR0: Fast → IFGain:Low dBm IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	08:32:12 PM Apr 07, 2021 TRACE [] 2 3 4 5 6 TYPE [] 2 4	Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz 2.400000000 GHz 2.400000000 GHz 237.000000 MHz Auto Man
DV R RF S0.4 Center Freq 1.2150 Center Freq 1.2150 10.0	Q AC CORREC 1000000 GHz PR0: Fast → IFGain:Low dBm IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	08:32:12 PM Apr 07, 2021 TRACE [] 2 3 4 5 6 TYPE [] 2 4 5 6 TY	Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz 2.400000000 GHz 2.400000000 GHz 237.000000 MHz Auto Man
DV R RF S0.4 Center Freq 1.2150 Center Freq 1.2150 10.0 Center Freq 1.2150 20.0 Center Freq 1.2150 -20.0 Center Freq 1.2150 -30.0 Center Freq 1.2150 -40.0 Center Freq 1.2150 -40.0 Center Freq 1.2150 -50.0 Center Freq 1.2150 -70.0 Center Freq 1.2150 Start 30 MHz Freq 2.2150 #Res BW 100 kHz MKR MKR MODE Freq 2.2150 1 F 2 Center Freq 2.2150 4 Center Freq 2.2150 4 Center Freq 2.2150 5 Center Freq 2.2150 6 Center Freq 2.2150 7	Q AC CORREC 1000000 GHz PR0: Fast → IFGain:Low dBm IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	08:32:12 PM Apr 07, 2021 TRACE [] 2 3 4 5 6 TYPE [] 2 4	Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz 2.400000000 GHz 2.400000000 GHz CF Step 237.000000 MHz Auto Man

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

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Agilent Spectrum Analyz	er - Swept SA							
🕅 R RF Center Freq 1	50 Ω AC 3.74175000	CORREC 0 GHz PNO: Fast ++	SENSE		ALIGNAUTO : Log-Pwr 10/10	TRAC	1 Apr 07, 2021 E 123456 E M WWWWW	Frequency
10 dB/div Ref	20.00 dBm	IFGain:Low	Atten: 30 dl		 	DI 1 23.71	5 GHz 43 dBm	Auto Tune
Log 10.0 0.00								Center Freq 13.741750000 GHz
-20.0 -30.0 -40.0							-18.78 dBm	Start Freq 2.483500000 GHz
-50.0 -60.0 -70.0				i ta principa in ta di a				Stop Freq 25.000000000 GHz
Start 2.48 GHz #Res BW 100 k	X	# VB M	/ 300 kHz -49.743 dBm	FUNCT	Sweep 2	2.152 s (3	5.00 GHz 0000 pts)	CF Step 2.251650000 GHz <u>Auto</u> Man
	20.		43.743 UDI					Freq Offset 0 Hz
6 7 8 9 10 11								
MSG					STATUS			

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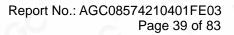
 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com





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

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Agilent Spectru									
Center F					Avg Type AvglHold	ALIGNAUTO : Log-Pwr 10/10	TRAC	4 Apr 07, 2021 E 1 2 3 4 5 6 E M 444 Autor	Frequency
			PNO: Fast	Atten: 30	Arginera		DI 1 23.39	^{P NNNNN}	Auto Tune
10 dB/div	Ref 20.0	0 dBm					-49.3	26 dBm	
Log 10.0									Center Freq 13.750000000 GHz
-10.0 -20.0 -30.0 -40.0								-17.97 dBm	Start Freq 2.50000000 GHz
-40.0 -50.0 -60.0						a stan data data data data data data data d			Stop Freq 25.00000000 GHz
Start 2.50 #Res BW	100 kHz	X	#VBW	300 kHz	CTION FUI	Sweep 2	2.152 s (3	5.00 GHz 0000 pts)	CF Step 2.25000000 GHz <u>Auto</u> Man
1 N 1 2			96 4 GHz	-49.326 di			Fonone		
3 4 5 7 8 9 10 11									Freq Offset 0 Hz
MSG						STATUS	5		

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

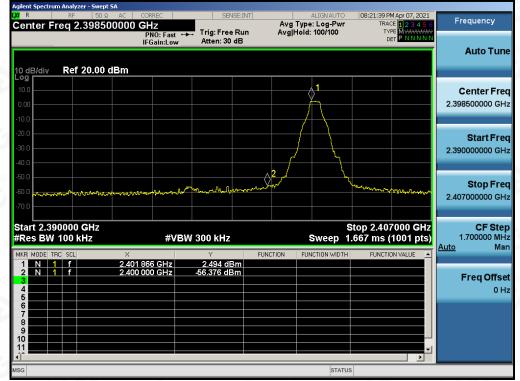
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, and 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 issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



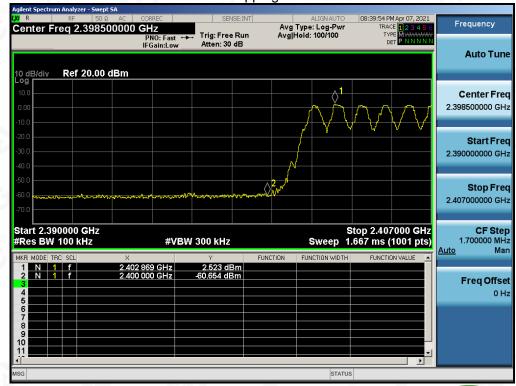
TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL

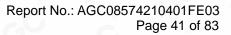
Hopping off



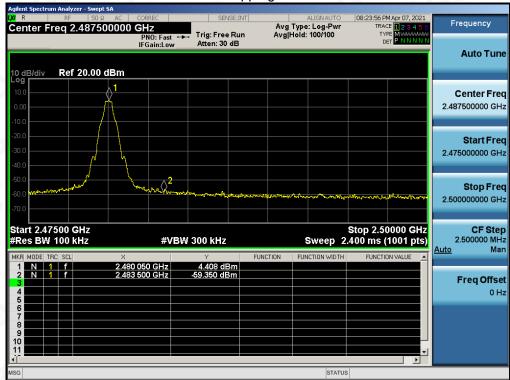
Hopping on



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the stand in the stand of 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 affective issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.



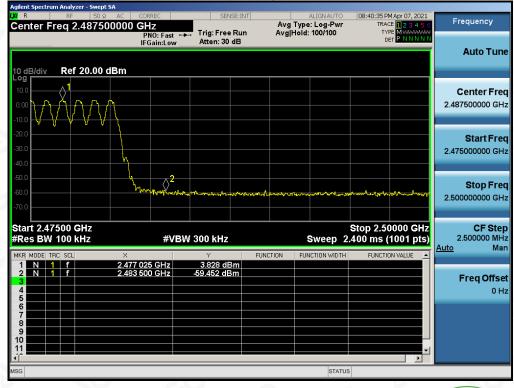




GFSK MODULATION IN HIGH CHANNEL

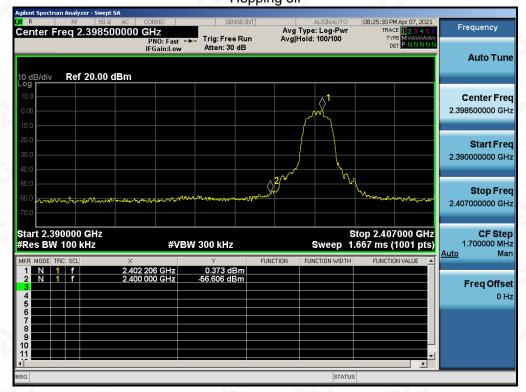
Hopping off

Hopping on



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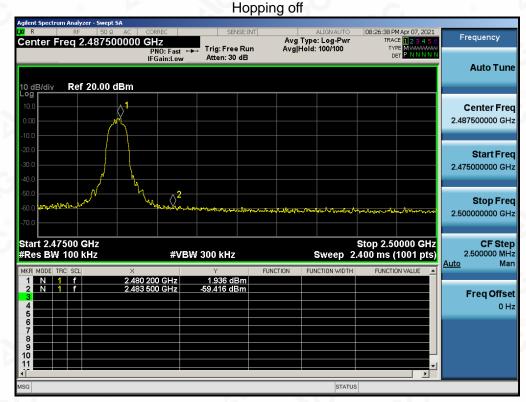
π /4-DQPSK MODULATION IN LOW CHANNEL Hopping off

Hopping on



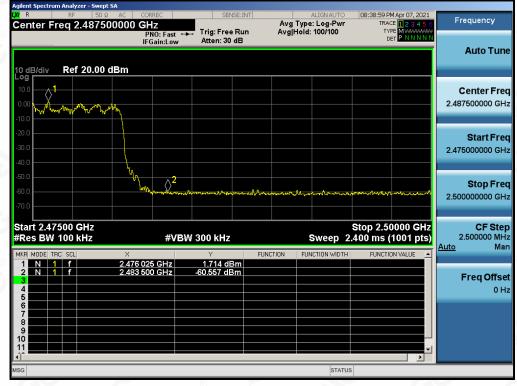
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated resting/inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, between 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 issuence of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.





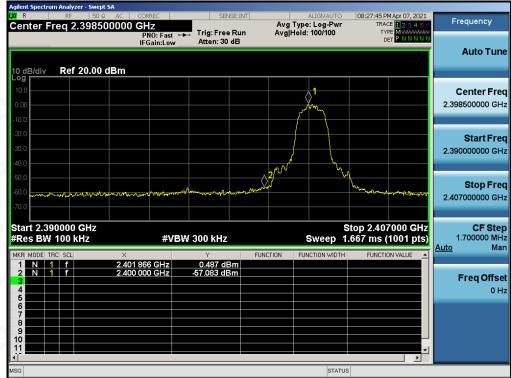
π /4-DQPSK MODULATION IN HIGH CHANNEL

Hopping on



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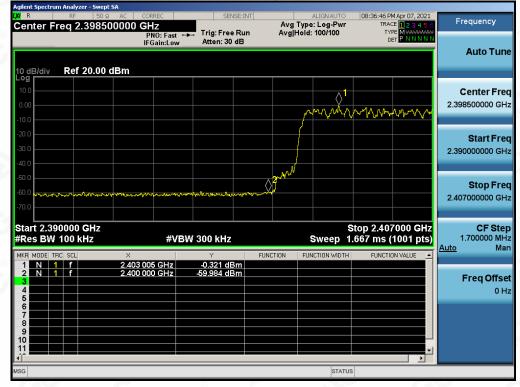




8-DPSK MODULATION IN LOW CHANNEL

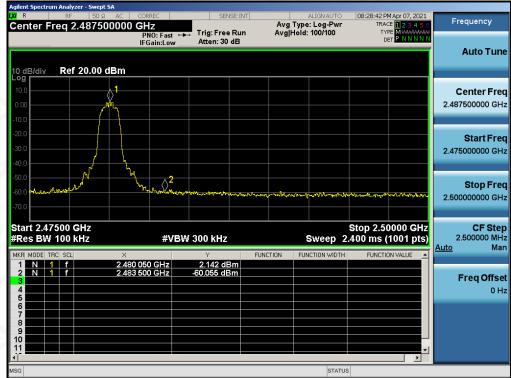
Hopping off

Hopping on



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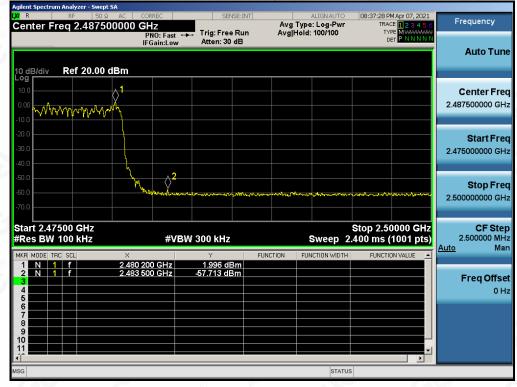




8-DPSK MODULATION IN HIGH CHANNEL

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 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.
- 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.

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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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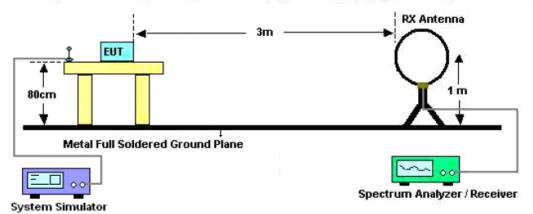
 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com

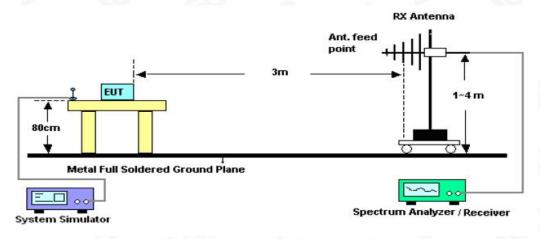


10.2. TEST SETUP

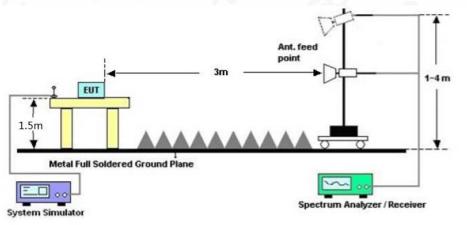
Radiated Emission Test-Setup Frequency Below 30MHz



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

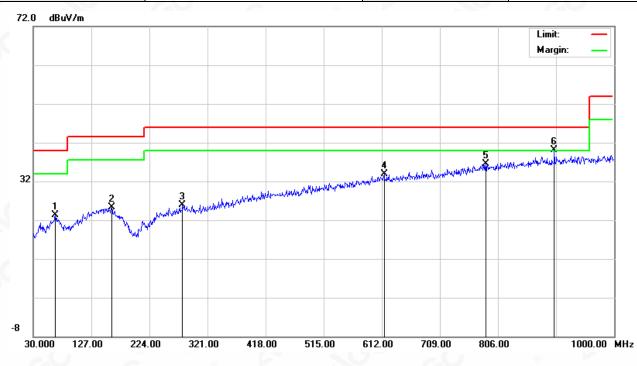
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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RADIATED EMISSION BELOW 1GHz

EUT	wireless earbuds	Model Name	EP-T25
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	66.8600	6.49	16.72	23.21	40.00	-16.79	peak
2	160.9500	6.29	19.09	25.38	43.50	-18.12	peak
3	279.2900	5.93	19.88	25.81	46.00	-20.19	peak
4	615.8800	6.80	27.14	33.94	46.00	-12.06	peak
5	785.6300	6.37	30.09	36.46	46.00	-9.54	peak
6 *	900.0900	8.41	31.70	40.11	46.00	-5.89	peak

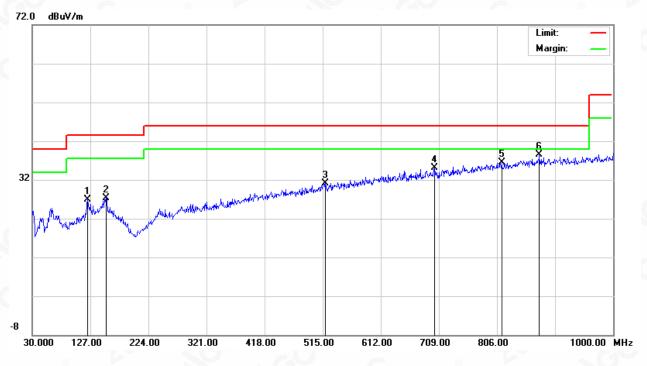
RESULT: PASS

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EUT	wireless earbuds	Model Name	EP-T25
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	Measure- ment	Limit	Over	
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1		122.1500	8.70	18.11	26.81	43.50	-16.69	peak
	2		153.1900	8.01	19.20	27.21	43.50	-16.29	peak
	3		519.8500	5.82	25.38	31.20	46.00	-14.80	peak
	4		702.2100	6.82	28.20	35.02	46.00	-10.98	peak
	5		813.7600	6.00	30.59	36.59	46.00	-9.41	peak
Č	6	*	876.8100	7.17	31.40	38.57	46.00	-7.43	peak

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Over= 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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RADIATED EMISSION ABOVE 1GHz

EUT	wireless earbuds	Model Name	EP-T25
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	45.36	0.08	45.44	74	-28.56	peak
4804.000	37.59	0.08	37.67	54	-16.33	AVG
7206.000	40.41	2.21	42.62	74	-31.38	peak
7206.000	32.28	2.21	34.49	54	-19.51	AVG
				60		
emark:			(R)		- GY	

EUT	wireless earbuds	Model Name	EP-T25
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
44.89	0.08	44.97	74	-29.03	peak
36.74	0.08	36.82	54	-17.18	AVG
39.63	2.21	41.84	74	-32.16	peak
30.51	2.21	32.72	54	-21.28	AVG
0			50	<u>O</u>	
	(dBµV) 44.89 36.74 39.63	(dBµV) (dB) 44.89 0.08 36.74 0.08 39.63 2.21	(dBµV) (dB) (dBµV/m) 44.89 0.08 44.97 36.74 0.08 36.82 39.63 2.21 41.84	(dBµV) (dB) (dBµV/m) (dBµV/m) 44.89 0.08 44.97 74 36.74 0.08 36.82 54 39.63 2.21 41.84 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 44.89 0.08 44.97 74 -29.03 36.74 0.08 36.82 54 -17.18 39.63 2.21 41.84 74 -32.16

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Report No.: AGC08574210401FE03 Page 53 of 83

EUT	wireless earbuds	Model Name	EP-T25
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	45.87	0.14	46.01	74	-27.99	peak
4882.000	38.52	0.14	38.66	54	-15.34	AVG
7323.000	41.39	2.36	43.75	74	-30.25	peak
7323.000	34.64	2.36	37	54	-17	AVG
0				®		
					0	

EUT	wireless earbuds	Model Name	EP-T25
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	45.86	0.14	46	74	-28	peak
4882.000	37.35	0.14	37.49	54	-16.51	AVG
7323.000	40.22	2.36	42.58	74	-31.42	peak
7323.000	31.27	2.36	33.63	54	-20.37	AVG
8						
- G	8				-	R
emark:	- C	0		- 6		<u> </u>
actor = Anter	nna Factor + Cable	e Loss – Pre-	amplifier			

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EUT	wireless earbuds	Model Name	EP-T25
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	46.67	0.22	46.89	74	[©] -27.11	peak
4960.000	38.95	0.22	39.17	54	-14.83	AVG
7440.000	41.41	2.64	44.05	74	-29.95	peak
7440.000	32.28	2.64	34.92	54	-19.08	AVG
0				ß		
- C.	8			C.	8	
emark:	- 61	8			- 6	8
actor = Anter	nna Factor + Cable	e Loss – Pre-	amplifier.			<i>c.</i> G

EUT	wireless earbuds	Model Name	EP-T25
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Vertical

equency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
60.000	45.86	0.22	46.08	74	-27.92	peak
60.000	38.65	0.22	38.87	54	-15.13	AVG
40.000	41.34	2.64	43.98	74	-30.02	peak
40.000	33.52	2.64	36.16	54	-17.84	AVG
		C ^C		©		0
ark:				©	0	

Factor = Antenna 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, Margin= Level-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.

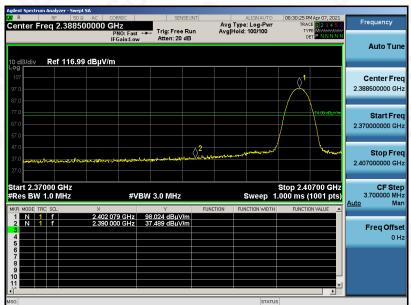
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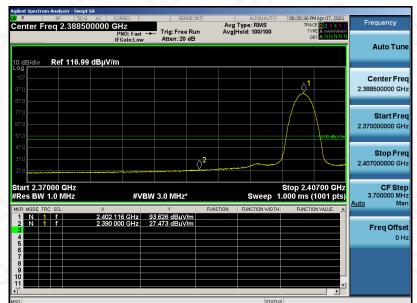
EUT	wireless earbuds	Model Name	EP-T25	
Temperature	25°C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	Mode 7	Antenna	Horizontal	

TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

ΡK



AV



RESULT: PASS

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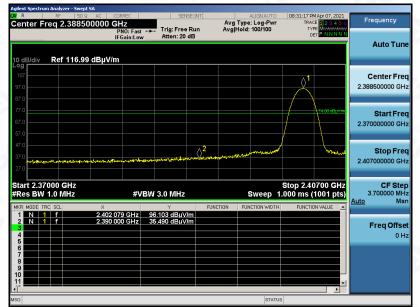
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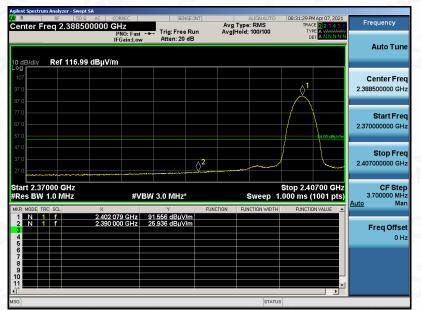
Report No.: AGC08574210401FE03 Page 56 of 83

EUT	wireless earbuds	Model Name	EP-T25
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical

PK



AV



RESULT: PASS

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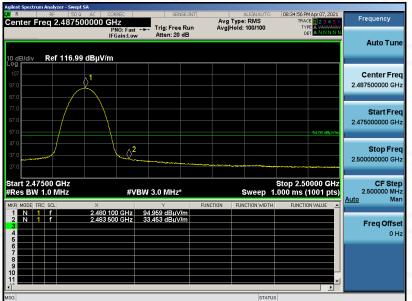
Report No.: AGC08574210401FE03 Page 57 of 83

EUT	wireless earbuds	Model Name	EP-T25
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Horizontal

PK

Frequency enter Freq 2.487500000 GHz Avg Type: Log-Pw Avg|Hold: 100/100 Trig: Free Run Atten: 20 dB PNO: Fast +++ IFGain:Low Auto Tun Ref 116.99 dBµV/m Center Fred 2.487500000 GHz Start Freq 2.475000000 GHz Stop Free 2.50000000 GH CF Step 2.500000 MH 2.47500 GHz BW 1.0 MHz #VBW 3.0 MHz Sweep 2.479 975 GHz 99.617 dBµV/m 2.483 500 GHz 44.153 dBµV/m Freq Offse 0 H;





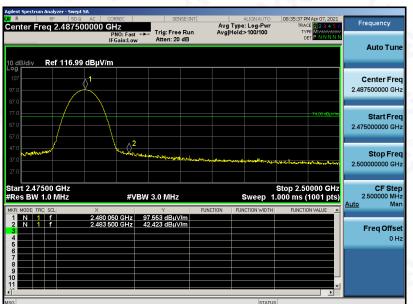
RESULT: PASS

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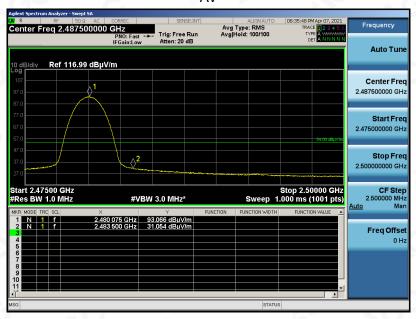
Report No.: AGC08574210401FE03 Page 58 of 83

EUT	wireless earbuds	Model Name EP-T25	
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Vertical



PK

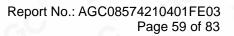
AV



RESULT: PASS

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. The 8DPSK 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)

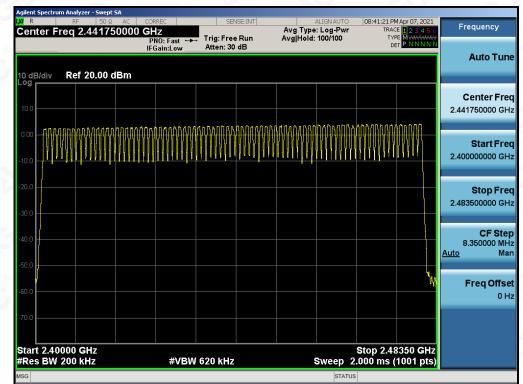
Same as described in section 8.2

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) × (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	2.894	29*4	335.704	400
Middle	2.894	27*4	312.552	400
High	2.894	28*4	324.128	400

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

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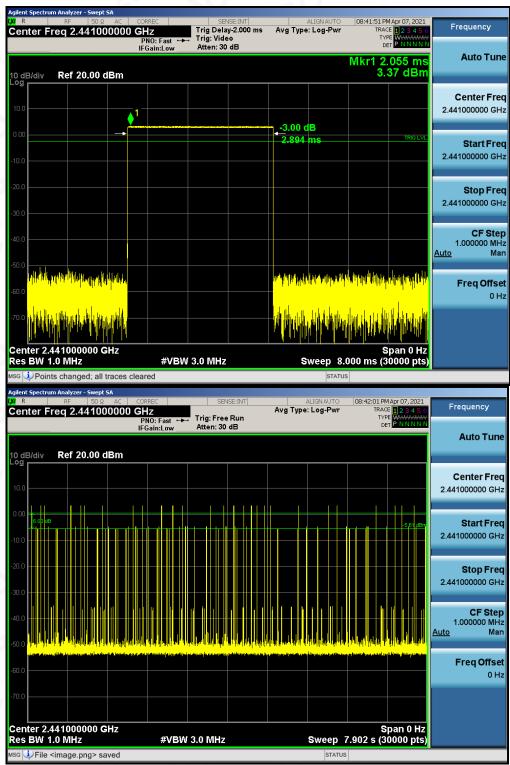


08:41:31 PM Apr 07, 2021 Frequency Trig Delay-2.000 ms Trig: Video Atten: 30 dB Center Freq 2.402000000 GHz Avg Type: Log-Pwr PNO: Fast IFGain:Low Auto Tune 2.049 ms 2.43 dBm Mkr1 Ref 20.00 dBm 10 dB/div **Center Freq** 2.402000000 GHz -3.00 dB 2.894 ms Start Fred 2.40200000 GHz Stop Freq 2.402000000 GHz CF Step 1.000000 MHz <u>Auto</u> Man in dealer al links 2000, is internatively that dealer Freq Offset 0 Hz Center 2.402000000 GHz Res BW 1.0 MHz Span 0 Hz Sweep 8.000 ms (30000 pts) #VBW 3.0 MHz G iPoints changed; all traces cleared TATUS 08:41:41 PM Apr 07, 2021 Center Freq 2.402000000 GHz Fast IFGain:Low Frequency Avg Type: Log-Pwr Trig: Free Run Atten: 30 dB TYPE DET Auto Tune 10 dB/div Ref 20.00 dBm Center Frea 2.402000000 GHz Start Freq 2.402000000 GHz Stop Freq 2.40200000 GHz CF Step 1.000000 MHz Auto Mar **Freq Offset** 0 Hz Center 2.402000000 GHz Res BW 1.0 MHz Span 0 Hz Sweep 7.902 s (30000 pts) #VBW 3.0 MHz File <image.png> saved

TEST PLOT OF LOW CHANNEL

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TEST PLOT OF MIDDLE CHANNEL

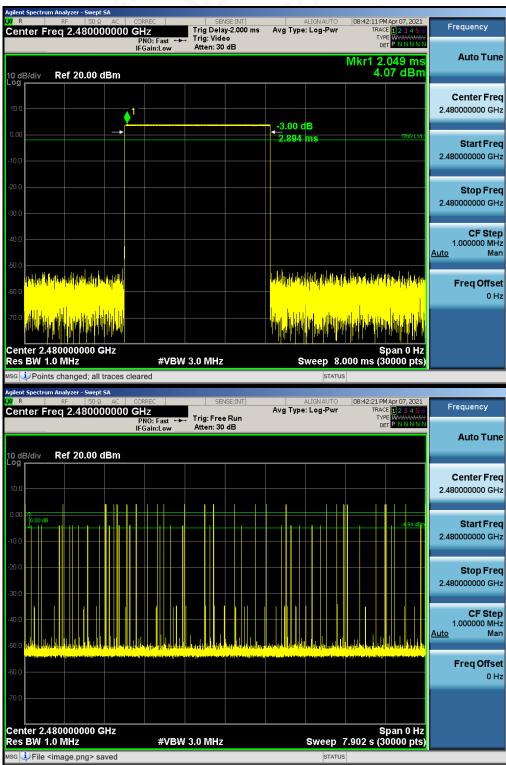
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TEST PLOT OF HIGH CHANNEL

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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	
	MHz		Data	
Hopping mode	1.009	2/3 *20 dB BW	Pass	

08:43:22 PM Apr 07, 2021 Frequency Center Freq 2.441000000 GHz Avg Type: Log-Pv AvgiHold: 100/100 Trig: Free Run Atten: 30 dB PNO: Fast IFGain:Lov Auto Tune Mkr1 2.442 199 GH 3.261 dBm Ref 20.00 dBm Center Fred 2.441000000 GHz Start Fred 2.439000000 GHz Stop Freq 2.443000000 GHz Center 2.441000 GHz #Res BW 300 kHz Span 4.000 MHz CF Step 400.000 kHz #VBW 300 kHz Sweep 1.066 ms (1000 pts) Auto 2.442 199 GHz 2.441 190 GHz 3.261 dBm 3.215 dBm **Freq Offset** 0 Hz

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

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 E-mail: agc@agc-cert.com

TEST PLOT FOR FREQUENCY SEPARATION