

FCC Test Report

Report No.: AGC00149200803FE03

FCC ID	: YGK-T302A
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: Bluetooth Headset
BRAND NAME	: ROMAN
MODEL NAME	T302A, T202, T202A, T202B, T202C, T202S, T203, T206, : T301D, T301P, T302P, T306, T306A, T502, T502A, T502B, T502C, T502S
APPLICANT	: SHENZHEN ROMAN TECHNOLOGY CO., LTD.
DATE OF ISSUE	: Sep. 15,2020
STANDARD(S)	: FCC Part 15.247
REPORT VERSION	: V1.0

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	. /	Sep. 15,2020	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	SHENZHEN ROMAN TECHNOLOGY CO., LTD.	
Address	Floor4, building, Fengmenao Industrial Park, Gangtou, shenzhen, China	
Manufacturer	SHENZHEN ROMAN TECHNOLOGY CO., LTD.	
Address	Floor4, building, Fengmenao Industrial Park, Gangtou, shenzhen, China	
Factory	SHENZHEN ROMAN TECHNOLOGY CO., LTD.	
Address	Floor4, building, Fengmenao Industrial Park, Gangtou, shenzhen, China	
Product Designation	Bluetooth Headset	
Brand Name	ROMAN	
Test Model	T302A	
Series Model	T202, T202A, T202B, T202C, T202S, T203, T206, T301D, T301P, T302P, T306, T306A, T502, T502A, T502B, T502C, T502S	
Difference Description	All the same except for the model name.	
Date of test	Sep. 01,2020 to Sep. 15,2020	
Deviation	No any deviation from the test method	
Condition of Test Sample	Normal	
Test Result	Pass	
Report Template	AGCRT-US-BR/RF	

We hereby certify that:

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

Prepared By

John Zerry

John Zeng Project Engineer

Sep. 15,2020

Max Zhan

Reviewed By

Max Zhang Reviewer

Sep. 15,2020

Approved By

Forrest Lei

Sep. 15,2020

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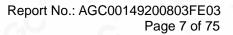
Authorized Officer

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Bluetooth Headset". 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

Operation Frequency	2.402 GHz to 2.480 GHz
RF Output Power	6.859dBm (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	V05
Software Version	V408
Antenna Designation	Ceramic Antenna (Comply with requirements of the FCC part 15.203)
Antenna Gain	2.28dBi
Power Supply	DC 3.7V by battery

Note: The EUT comprises left and right channel earphone, both are the same and have been tested,

only the test data of left earphone recorded in this report.

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
NO- 100	0	2402 MHz
0		2403 MHz
	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 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: 40,21,44,23,42,53,46,55,48,33,52,35,50,65,54,67 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 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. 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: YGK-T302A** 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.



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 = ±3.2 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: $Uc = \pm 2\%$
- 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	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

WRDLab 1.0.7.227	7						-	
JT HAARTSEN								
Port	COM53 ~	~ I	Manual Enter mode	To B	R 3M 115200 V			
PAU16XX	ĸ							
DUT FLASH	RF HCI							
Star	rt RF	Stop RF	BT Test Mode	Reset	Lead From DUT	Save To DUT		
					Con Fron FILE	Save To FILE		
RF	1: Packet Tx 🔗	Hopping						
BDR MaxPwr	0x06 ~ ×	EDR MaxPwr	0x03 ~ *	BLE MaxPwr	0x00 ~			
Channel	0: 2402Mhz \vee	Freq Offset	0x8E ~ *					
PackType	2: 1DH5 V	Payload	0: PRBS9 ~	Pkt count	0:Unlimited ~			
Wait DUT reboo Wait DUT reboo Enter HCI mode Wait DUT reboo SUCCESS Stop RF Packet SUCCESS	ot 4000 ms	rindex: 06			^ Clear		E	

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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

ltem	Equipment	Model No.	ID or Specification	Remark
1	Bluetooth Headset	T302A	YGK-T302A	EUT
2	control board	EPS-35-3.3	DC 3.3V	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



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. 12, 2019	Dec. 11, 2020
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	N/A	N/A
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 09, 2019	Sep. 08, 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	Oct. 15, 2019	Oct. 16, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 09, 2019	Jan. 08, 2021
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A



7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

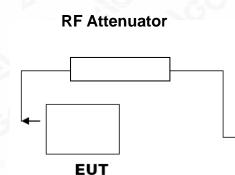
For peak power test:

- 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.

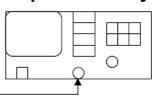
Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

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

PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION								
Frequency (GHz)Peak Power (dBm)Applicable Limits (dBm)Pass or Fail								
2.402	4.062	30	Pass					
2.441	3.959	30	Pass					
2.480	3.976	30	Pass					

CH0







jilent Spectrum Analyzer - Swept SA R RF 50 Ω AC	CORREC	SENSE:INT	ALIGNAUTO	11:01:22 AM Sep 10, 2020	-
enter Freq 2.4800000	0 GHz PNO: Fast	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 100/100	TRACE 123456 TYPE MWWWWW DET P N N N N N	Frequency
	IFGain:Low	Atten: 30 dB			Auto Tur
0 dB/div Ref 20.00 dBm			IVIKIT	2.479 860 GHz 3.976 dBm	, late fai
og					Center Fre
10.0		1			2.480000000 GI
0.00					
					Start Fre 2.477500000 G
10.0					2.477500000 Gi
20.0					Stop Fro
30.0					2.482500000 GI
50.0					
40.0					CF Ste 500.000 ki
50.0					<u>Auto</u> M
					Freq Offs
60.0					01
70.0					
enter 2.480000 GHz Res BW 1.5 MHz	#\/R\M	5.0 MHz	Sween	Span 5.000 MHz .000 ms (1001 pts)	
	#VDVV	5.0 19112	Sweep		

PEAK OUTPUT POWER MEASUREMENT RESULT									
FOR Π/4-DQPSK MODULATION									
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail						
2.402	6.331	21	Pass						
2.441	6.235	21	Pass						
2.480	6.260	21	Pass						

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PEAK OUTPUT POWER MEASUREMENT RESULT FOR 8-DPSK MODULATION								
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail					
2.402	6.859	21	Pass					
2.441	6.776	21	Pass					
2.480	6.775	21	Pass					









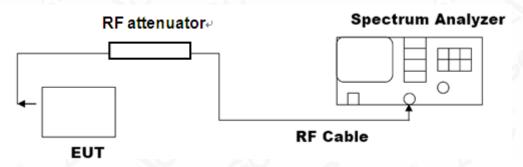


8. 20DB BANDWIDTH

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							
Annliaghta Limita	Measurement Result						
Applicable Limits	Test Data	Criteria					
	Low Channel	0.960	PASS				
N/A	Middle Channel	0.956	PASS				
	High Channel	0.956	PASS				

11:00:12 AM Sep 10, 2020 Radio Std: None Frequency Center Freq: 2.402000000 GHz 402000000 GH 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** 11.5 dBm 890.98 kHz Freq Offset 0 Hz 14.172 kHz **Transmit Freq Error OBW Power** 99.00 % x dB Bandwidth 959.9 kHz x dB -20.00 dB

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

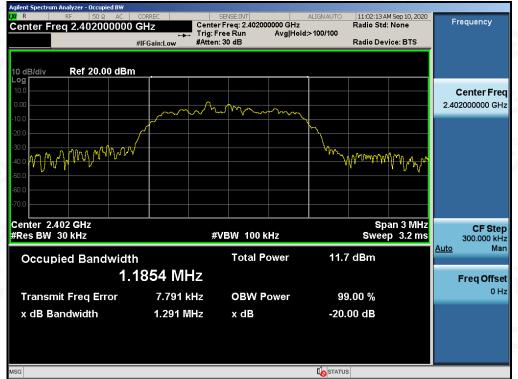
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





MEASUREMENT RESULT FOR II /4-DQPSK MODULATION							
Applicable Limite		Measurement Result					
Applicable Limits	Test Data	Test Data (MHz)					
	Low Channel	1.291	PASS				
N/A	Middle Channel	1.288	PASS				
	High Channel	1.289	PASS				

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

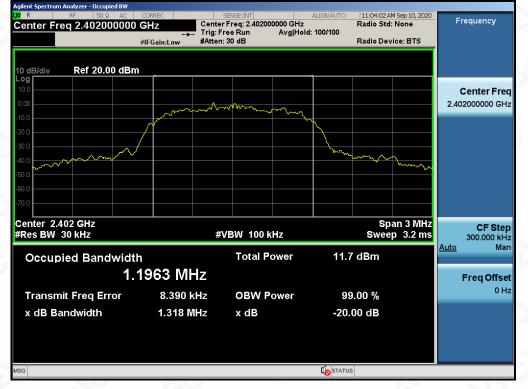
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





MEASUREMENT RESULT FOR 8-DPSK MODULATION								
Measurement Result								
Applicable Limits	Test Dat	Test Data (MHz)						
	Low Channel	1.318	PASS					
N/A	Middle Channel	1.303	PASS					
	High Channel	1.302	PASS					

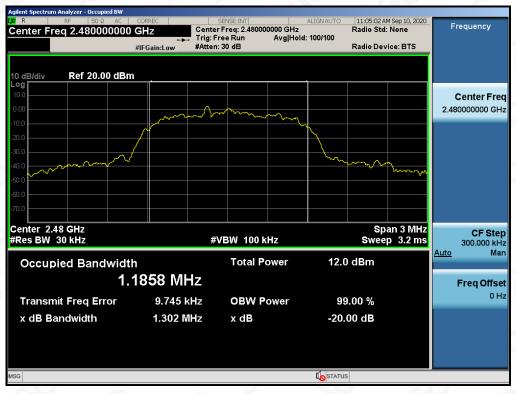
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL





TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





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)

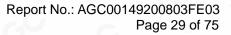
The same as described in section 8.2

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

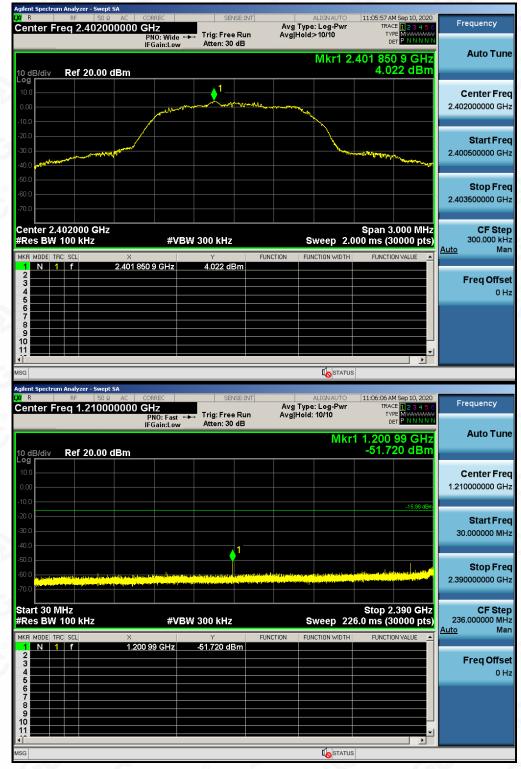
9.4. LIMITS AND MEASUREMENT RESULT

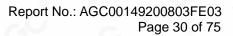
LIMITS AND MEAS	SUREMENT RESULT					
Annlinghta Limita	Measurement Result					
Applicable Limits	Test Data	Criteria				
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS				
power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))	At least -20dBc than the limit Specified on the TOP Channel	PASS				





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







	t Spectru		yzer - Sw	ept SA															
LXI R Cen	ter F	RF		Ω AC 17500				SEI	VSE:INT		Ava		LIGNAUTC		11:06:32. TR		456		Frequency
		oq	10.1-1	11000	PN	0: Fast		Trig: Fre Atten: 30			Avgi	Hold:	10/10		т		N N N N		
					IFG8	ain:Low	·	Atten. 30	u D					llord					Auto Tune
													IV	IKEI	4.80 -45.1	4 3 U 67 d	9HZ Bm		
10 d Log	B/div	Re	T 20.0	0 dBm													5		
10.0	<u> </u>																_		Center Freq
0.00																	_		- 13.741750000 GHz
-10.0																			
-20.0																-15	98 dBm		Other at East
-30.0																			Start Freq 2.483500000 GHz
-40.0			1																2.483500000 GHZ
-50.0																		H	
-60.0	1		مخاطعه إداري	and the sec	Lands, and		l den aville	ور ارتباط الحار	Jump	na ana a	di tili ta						vanafa off		Stop Freq
	and the second second	1414-14	Contraction of the local data		-	10 - C		and the second secon										:	25.000000000 GHz
-70.0																			
Sta	rt 2.48	GH	z												Stop :	25.00	GHz		CF Step
#Re	s BW	100	kHz			#V	BW 3	00 kHz					Sweep	2.1	52 s (30000	pts)		2.251650000 GHz
MKR	MODE TI	RC SCI	L	X				Y		FUNC	TION	FUN	CTION WIDT	TH	FUNCT	ION VALU	E 🔺	A	<u>uto</u> Man
1 2	N 1	f		4	1.804 3	GHz	-	45.167 di	3m									F	
3																			Freq Offset
4																			0 Hz
6																			
8																		L	
9 10																		L	
11																	-	L	
												_	-1						
MSG														rus					

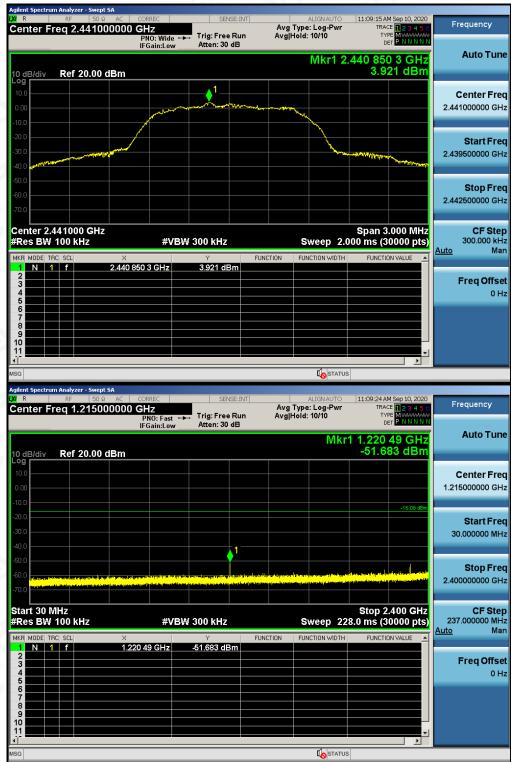
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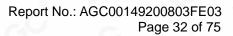
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 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com





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





Agilent Spectrum Analyzer - Swept SA					
ΙΧΙ R RF 50 Ω AC		SENSE:INT	ALIGN AUTO	11:09:49 AM Sep 10, 2020	Frequency
Center Freq 13.74175000	0 GHZ PN0: Fast ↔ Trig: F		Type: Log-Pwr Hold: 10/10	TRACE 123456 TYPE MWWWWW DET P N N N N N	
	IFGain:Low Atten:			DET PNNNN	
			ML	r1 4.881 6 GHz	Auto Tune
			IVIN	-43.360 dBm	
10 dB/div Ref 20.00 dBm				-45.560 UBIII	
					Center Freq
0.00					13.741750000 GHz
-10.0					
-20.0				-16.08 dBm	
					Start Freq
-30.0					2.483500000 GHz
-40.0					
-50.0				and the second second	
a la la la companya da la companya d		and a statistic strategic and a strategic	a de la seconda de la secon		Stop Freq
-60.0 collection of the second s					25.00000000 GHz
-70.0					
Start 2.48 GHz				Stop 25.00 GHz	CF Step
#Res BW 100 kHz	#VBW 300 kł	łz	Sweep 2	.152 s (30000 pts)	2.251650000 GHz
MKR MODE TRC SCL X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
	881 6 GHz -43.360		PONCTION WIDTH	POINCTION VALUE	
2	40.000				Freg Offset
3					•
4					0 Hz
6					
7					
8					
10					
11					
<u> </u>					
MSG					

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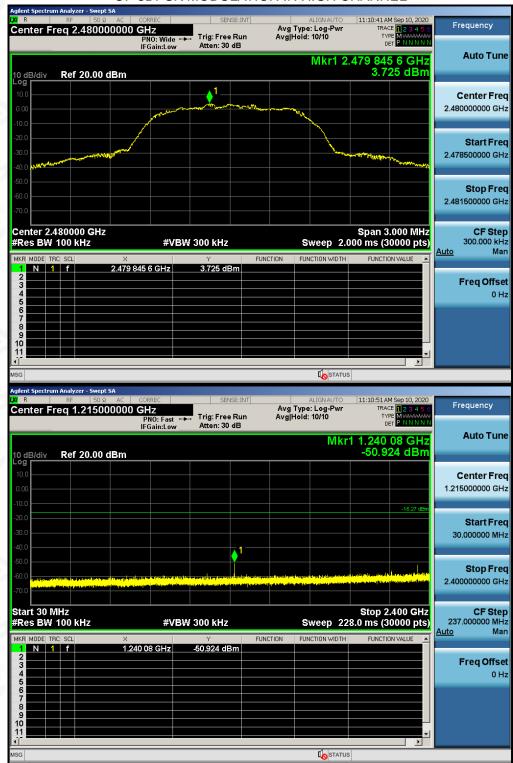
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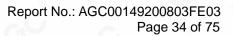
 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com

Web: http://cn.agc-cert.com/





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





Agilent Spect	rum Anal	yzer - Swept									
M R RF 50 Ω AC Center Freq 13.75000000				CORREC SENSE:INT D GHZ PNO: Fast +++ Trig: Free Run			ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10		11:11:16 AM Sep 10, 2020 TRACE 1 2 3 4 5 6 TYPE M		Frequency
10 dB/div	IFGain:Low Atten: 30 dB Mkr1 4.960 1 GH								0 1 GHz	Auto Tune	
Log 10.00 0.00 -10.0											Center Freq 13.75000000 GHz
-20.0 -30.0 -40.0		1								-16.27 dBm	Start Freq 2.50000000 GHz
-50.0 -60.0 -70.0						a sa lina di sa di s					Stop Freq 25.00000000 GHz
Start 2.50 GHz #Res BW 100 kHz #VBW 300 kHz MKR MODE TRC SCL X Y FUNCTION F 1 N 1 f 4.960 1 GHz -44.429 dBm F							Sweep	2.152 s (3	5.00 GHz 0000 pts) DN VALUE	CF Step 2.250000000 GHz <u>Auto</u> Man	
1 2 3 4 5 6 7 8 9 10 11			4,960		-44,429 df	5m					Freq Offset 0 Hz
MSG											

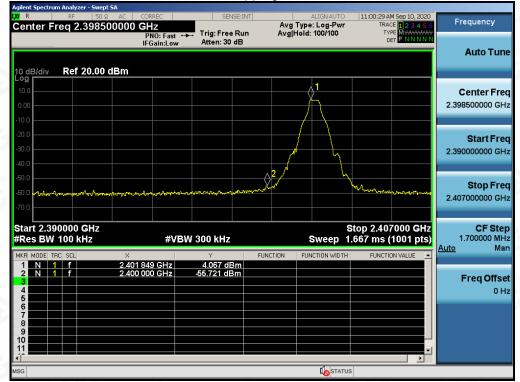
Note: The 8DPSK modulation is the worst case and only those data recorded in the report.



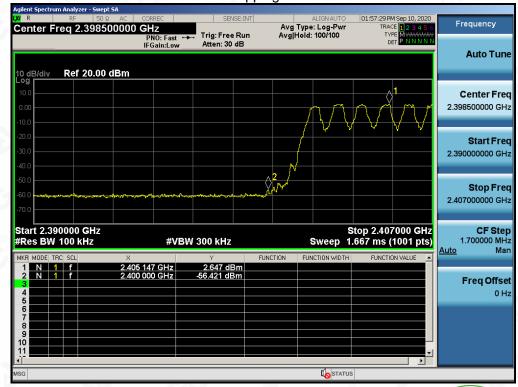
TEST RESULT FOR BAND EDGE

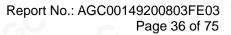
GFSK MODULATION IN LOW CHANNEL

Hopping off

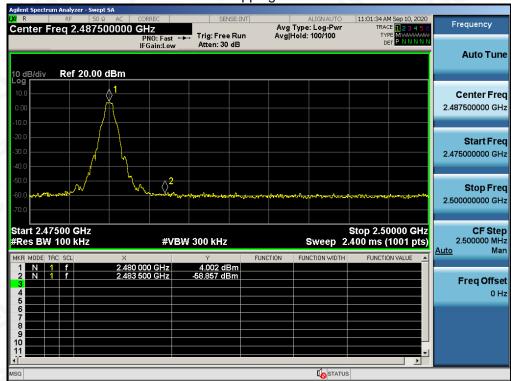


Hopping on





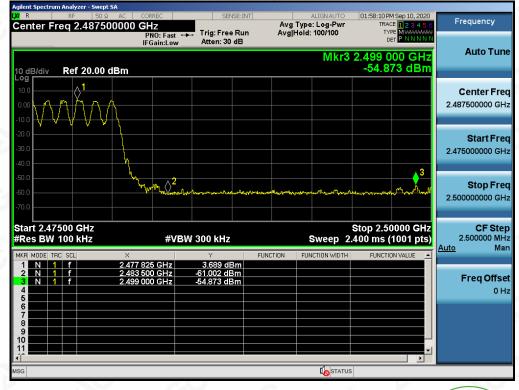




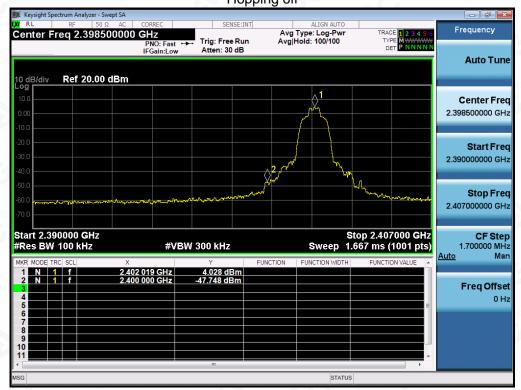
GFSK MODULATION IN HIGH CHANNEL

Hopping off

Hopping on







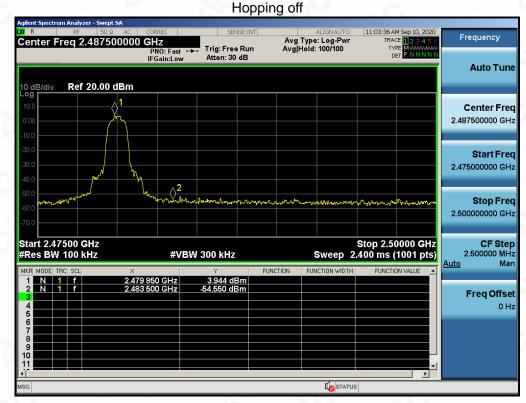
π /4-DQPSK MODULATION IN LOW CHANNEL Hopping off

Hopping on



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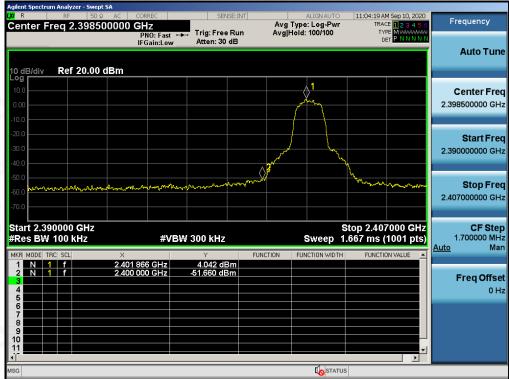
π /4-DQPSK MODULATION IN HIGH CHANNEL

Hopping on



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8-DPSK MODULATION IN LOW CHANNEL

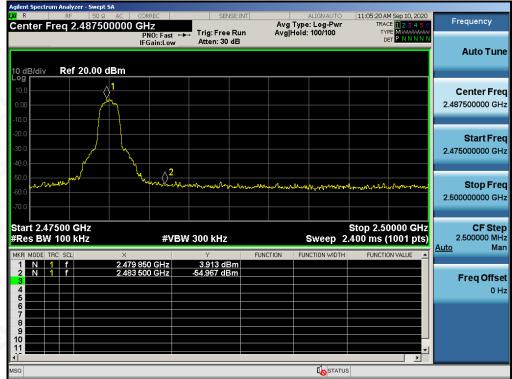
Hopping off

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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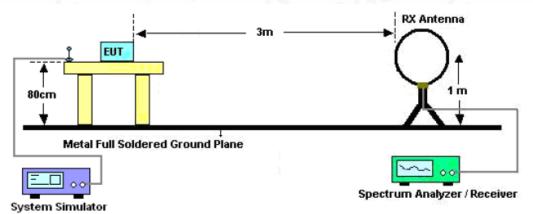
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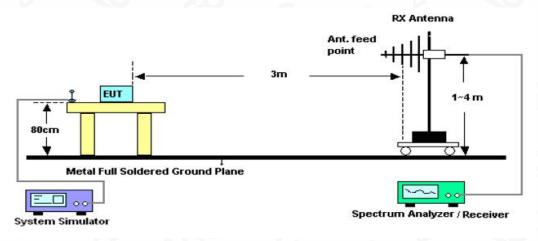


10.2. TEST SETUP

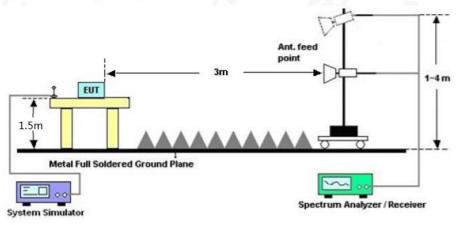
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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10.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

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

10.4. TEST RESULT

RADIATED EMISSION BELOW 30MHz

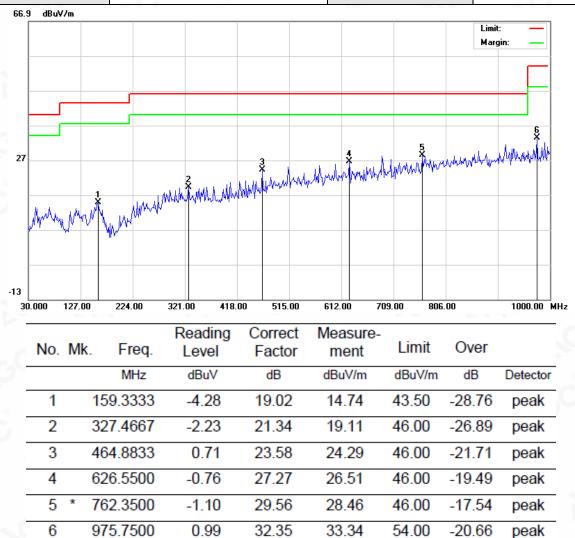
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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RADIATED EMISSION BELOW 1GHz

EUT	Bluetooth Headset	Model Name	T302A
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal



RESULT: PASS

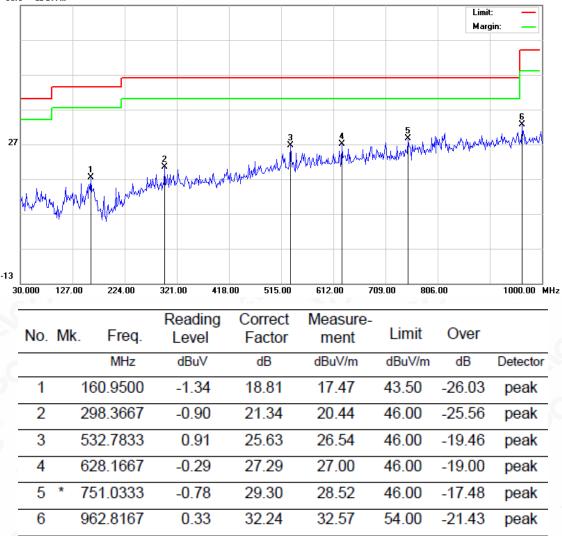
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EUT	Bluetooth Headset	Model Name	T302A
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical

66.9 dBuV/m



RESULT: PASS

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

2. All test modes had been pre-tested. The mode 7 is the worst case and recorded in the report.

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RADIATED EMISSION ABOVE 1GHz

EUT	Bluetooth Headset	Model Name	T302A
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	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4804.000	45.75	0.08	45.83	74	-28.17	peak
4804.000	37.62	0.08	37.7	54	-16.3	AVG
7206.000	40.38	2.21	42.59	74	-31.41	peak
7206.000	32.62	2.21	34.83	54	-19.17	AVG
3	10			S C	- 60	
emark:						

EUT	Bluetooth Headset	Model Name	T302A
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.000	44.96	0.08	45.04	74	-28.96	peak
4804.000	36.65	0.08	36.73	54	-17.27	AVG
7206.000	39.28	2.21	41.49	74	-32.51	peak
7206.000	30.34	2.21	32.55	54	-21.45	AVG
	®			<u> </u>	6	

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Report No.: AGC00149200803FE03 Page 48 of 75

EUT	Bluetooth Headset	Model Name	T302A
EUT	Biueloolin Headsel		1302A
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	45.54	0.14	45.68	74	-28.32	peak
4882.000	38.18	0.14	38.32	54	-15.68	AVG
7323.000	41.26	2.36	43.62	74	-30.38	peak
7323.000	34.66	2.36	37.02	54	-16.98	AVG
0				0		

EUT Model Name T302A **Bluetooth Headset** Temperature 25°C **Relative Humidity** 55.4% Pressure 960hPa **Test Voltage** Normal Voltage **Test Mode** Mode 8 Vertical Antenna

Meter Reading	Factor	Emission Level	Limits	Margin	
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
45.75	0.14	45.89	74	-28.11	peak
37.36	0.14	37.5	54	-16.5	AVG
40.42	2.36	42.78	74	-31.22	peak
31.6	2.36	33.96	54	-20.04	AVG
		6			
				6	<u>(</u>)
	(dBµV) 45.75 37.36 40.42	(dBµV) (dB) 45.75 0.14 37.36 0.14 40.42 2.36	(dBµV) (dB) (dBµV/m) 45.75 0.14 45.89 37.36 0.14 37.5 40.42 2.36 42.78	(dBµV) (dB) (dBµV/m) (dBµV/m) 45.75 0.14 45.89 74 37.36 0.14 37.5 54 40.42 2.36 42.78 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 45.75 0.14 45.89 74 -28.11 37.36 0.14 37.5 54 -16.5 40.42 2.36 42.78 74 -31.22

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

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EUT	Bluetooth Headset	Model Name	T302A
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	46.35	0.22	46.57	74	-27.43	peak
4960.000	38.26	0.22	38.48	54	-15.52	AVG
7440.000	41	2.64	43.64	74	-30.36	peak
7440.000	32.54	2.64	35.18	54	-18.82	AVG
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emark:		6			- 6	8
actor = Anter	nna Factor + Cable	e Loss – Pre-	amplifier.			-0

EUT	Bluetooth Headset	Model Name	T302A
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	45.43	0.22	45.65	74	-28.35	peak
4960.000	38.36	0.22	38.58	54	-15.42	AVG
7440.000	41.25	2.64	43.89	74	-30.11	peak
7440.000	33.68	2.64	36.32	54	-17.68	AVG
		- C	®			
				8		

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, Over=Measure-Limit.

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

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

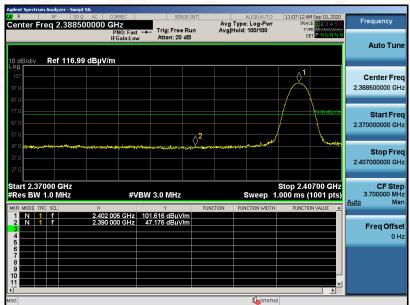
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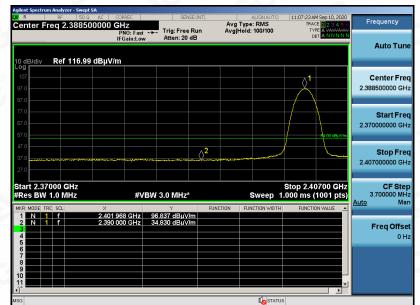
EUT	Bluetooth Headset	Model Name T302A		
Temperature	25°C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	Mode 7	Antenna	Horizontal	

TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

PK



AV



RESULT: PASS

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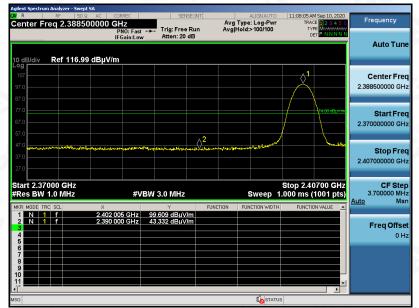
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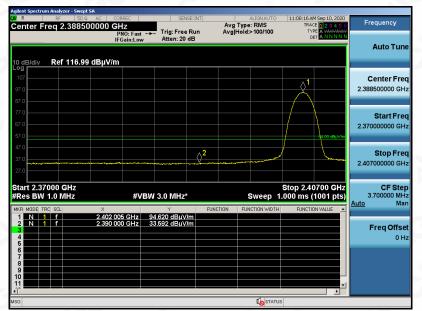
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EUT	Bluetooth Headset	Model Name	T302A
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical

PK



AV



RESULT: PASS

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