

FCC Test Report

Report No.: AGC08328201205FE02

FCC ID	8	2AG68-ANC-834C
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Hybrid Active Noise Cancellation Earbuds
BRAND NAME	:	N/A
MODEL NAME	i	ANC-834C, ANC- XXX
APPLICANT	:	Dongguan Koppo Electronics Co.,Ltd.
DATE OF ISSUE	8 •	Jan. 26, 2021
STANDARD(S)	:	FCC Part 15.247
REPORT VERSION	:	V1.0



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Report No.: AGC08328201205FE02 Page 2 of 78

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Jan. 26, 2021	Valid	Initial Release

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1. VERIFICATION OF COMPLIANCE

Dongguan Koppo Electronics Co., Ltd.			
No.2 3 Road, Buxinji Industrial Area, Guanjingtou Village, Fenggang Town, Dongguan City, Guangdong Province, China			
Dongguan Koppo Electronics Co., Ltd.			
No.2 3 Road, Buxinji Industrial Area, Guanjingtou Village, Fenggang Town Dongguan City, Guangdong Province, China			
Dongguan Koppo Electronics Co., Ltd.			
No.2 3 Road, Buxinji Industrial Area, Guanjingtou Village, Fenggang Town Dongguan City, Guangdong Province, China			
Hybrid Active Noise Cancellation Earbuds			
N/A			
ANC-834C			
ANC- XXX (Note: "XXX' can represent the number "1 to 9" in arabesques or the letter "A to Z")			
All the same except for the model name and color.			
Dec. 29, 2020 to Jan. 26, 2021			
No any deviation from the test method			
Normal			
Pass			
AGCRT-US-BLE/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

Jan. 26, 2021

Max Zhan

Reviewed By

Approved By

Max Zhang Reviewer

Formastico

Forrest Lei Authorized Officer

Jan. 26, 2021

Jan. 26, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a "Hybrid Active Noise Cancellation Earbuds". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

2.402 GHz to 2.480GHz	
GFSK 1Mbps Right: -7.235dBm (Max); Left: -7.337dBm (Max); GFSK 2Mbps Right: -6.936dBm (Max); Left: -7.160dBm (Max);	
V5.1	
BLE GFSK 1Mbps GFSK 2Mbps	
40 Channel	
FPC Antenna (Comply with requirements of the FCC part 15.203)	
-0.18dBi	
V0.3	
V2	
DC 3.7V by battery or DC 5V by adapter	

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
	0	2402 MHz
20 .00	0 1	2404 MHz
2400~2483.5MHz		
	38	2478 MHz
	39	2480 MHz

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

This submittal(s) (test report) is intended for FCC ID: 2AG68-ANC-834C filing to comply with the FCC Part 15.247 requirements.

2.4. 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.

2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.7. 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 $\pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, Uc = ±3.1 dB
- Uncertainty of Radiated Emission below 1GHz, $Uc = \pm 4.0 \text{ dB}$
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted, $Uc = \pm 0.8 dB$
- Uncertainty of RF power density, conducted, Uc = ±2.6 dB
- Uncertainty of spurious emissions, conducted, $Uc = \pm 2.7 \text{ dB}$
- Uncertainty of Occupied Channel Bandwidth: $Uc = \pm 2 \%$

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION		
1	Low channel TX		
2	Middle channel TX		
3	High channel TX		

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	
Bluetooth RF Test Tool (RtlBluetoothMP.dll Version :5.3.1.5 RTLBTAPP Version :5.2.2.42)	– 🗆 X
Node About	
COM UART - Port V - Baudrate=115200 - Open	
No KeyWord Delay Oms Close	Hot Key Mode
Non Link Mode Hopping LE Test Battery Resistance Cal Tx Settings	HCI Reset
	Test Mode
LE PKT TX (for MP)	
Channel 0 🗸	
Data Len 🛛 🗸	
Payload Type Pseudo-Random bit sequence 9 🗸	ShowTxPower
PHY LE 1M PHY	
Modulation Index stable modulation	Power Tracking
Start Stop	C OFF Set
	○ ON Get
LE Rx Count 0	PHY_STAGE -
	Get BT Status
Message	
>>ActionControlExcute[Single Tone (for MPI) Success!! >>ActionControlExcute[Single Tone (for MPI) Stop!! >>ActionControlExcute[Single Tone (for MPI) Stop!! >>ActionControlExcute[Single Tone (for MPI) Success!!	
>>>cton_onronic xoure(single one (for Miril) stop!) >>LeTest_Start: PKT TX	

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:

EUT

Conducted Emission Configure:

		(2.)
FUT		
EUT	AE	

5.2. EQUIPMENT USED IN TESTED SYSTEM

ltem	Equipment	Model No.	ID or Specification	Remark
1	Hybrid Active Noise Cancellation Earbuds	ANC-834C	2AG68-ANC-834C	EUT
2	Control Box	USB-TTL	N/A	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	Radiated Emission	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. 09, 2019	Jan. 08, 2021
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

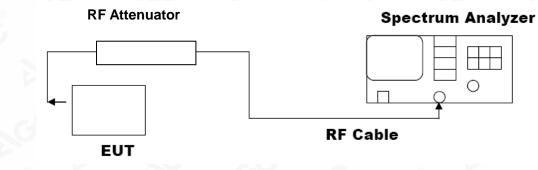
7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW≥DTS bandwidth
- 3. VBW≥3*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

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

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



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7.3. LIMITS AND MEASUREMENT RESULT

The right ear:

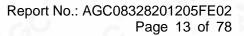
BLE GFSK 1Mbps

PEAK OUTPUT POWER MEASUREMENT RESULT								
FOR GFSK MOUDULATION								
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail					
2.402	-7.282	30	Pass					
2.440	-7.249	30	Pass					
2.480	-7.235	30	Pass					

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0.0	and the second second	1		Start Fre 2.477500000 GH
				Stop Fr 2.482500000 Gi
				CF Ste 500.000 kl <u>Auto</u> M
0.0				Freq Offs 0

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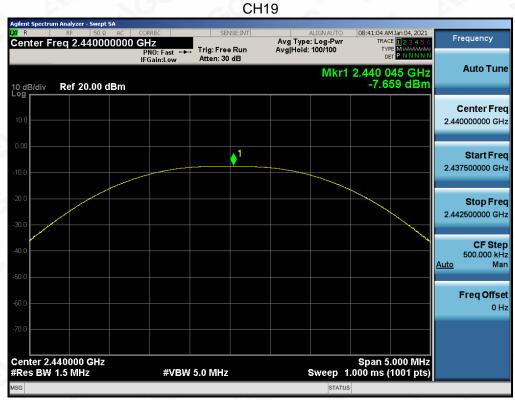
The left ear:

	PEAK OUTPUT POWER MEASUREMENT RESULT							
FOR GFSK MOUDULATION								
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail					
2.402	-7.337	30	Pass					
2.440	-7.659	30	Pass					
2.480	-7.559	30	Pass					

R RF 50 Ω A enter Freq 2.4020000	00 GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100	08:40:27 AM Jan 04, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWWW	Frequency
dB/div Ref 20.00 dBr	PNO: Fast ↔ IFGain:Low	Atten: 30 dB		2.401 860 GHz -7.337 dBm	Auto Tui
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0.0		∳ ¹			Start Fr 2.399500000 G
0.0					Stop Fr 2.404500000 G
0.0					CF St 500.000 k <u>Auto</u> M
0.0					Freq Offs 0
enter 2.402000 GHz				Span 5.000 MHz	
Res BW 1.5 MHz	#VBW	5.0 MHz	Sweep 1	1.000 ms (1001 pts)	

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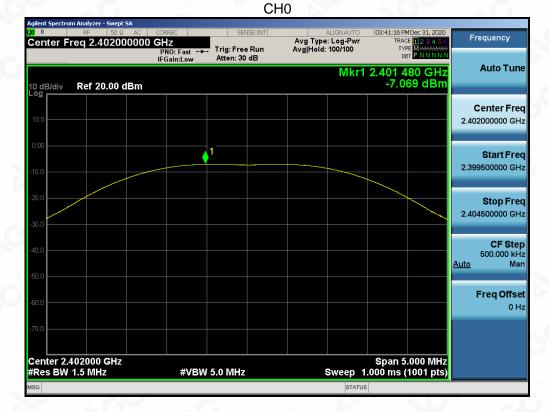
	m Analyzer - Swept S									
Kanter F	RF 50 Ω reg 2.480000	AC COR			ISE:INT	Avg Type	ALIGNAUTO	TRAC	M Jan 04, 2021 E <mark>1 2 3 4 5 6</mark>	Frequency
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-70.0										
Center 2.4 #Res BW	180000 GHz		#VRM	5.0 MHz			Sween 1	Span 5	.000 MHz 1001 pts)	
MSG	199 1911 12		<i></i>	040 IVII 12			STATUS		1001 pts)	
			-		_					

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BLE GFSK 2Mbps

	PEAK OUTPUT POWER MEA FOR GFSK MOUI		
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	-7.069	30	Pass
2.440	-6.956	30	Pass
2.480	-6.936	30	Pass



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CH39

R RF 50 Q AC Center Freq 2.480000000	CORREC GHZ PN0: Fast ↔ Trig:	SENSE:INT	ALIGN AUTO : Log-Pwr 100/100	TRAC	4Dec 31, 2020 2 1 2 3 4 5 6 2 M WWWWW	Frequency
10 dB/div Ref 20.00 dBm		n: 30 dB		2.479 4	65 GHz 36 dBm	Auto Tur
10.0						Center Fre 2.480000000 Gi
0.00	1					Start Fr 2.477500000 GI
20.0						Stop Fr 2.482500000 Gi
10.0						CF St 500.000 k <u>Auto</u> M
50.0						Freq Offs 0
700 Center 2.480000 GHz Res BW 1.5 MHz	#VBW 5.0 N	1117	Sween 1	Span 5	.000 MHz 1001 pts)	
SG	#VB4V 3.0 W		STATUS	-	Toor pis)	

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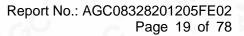


The left ear:

PEAK OUTPUT POWER MEASUREMENT RESULT								
FOR GFSK MOUDULATION								
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail					
2.402	-7.160	30	Pass					
2.440	-7.846	30	Pass					
2.480	-7.714	30	Pass					

■ RF 50Ω AC Center Freq 2.402000000	CORREC SENSE:INT GHZ PN0: Fast + IFGain:Low Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	08:44:27 AM Jan 04, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N	Frequency
0 dB/div Ref 20.00 dBm	IFGam.Low Addition	Mkr1	2.401 515 GHz -7.160 dBm	Auto Tun
10.0				Center Fre 2.402000000 GH
0.00	1			Start Fre 2.399500000 GF
20.0				Stop Fre 2.404500000 GH
40.0				CF Ste 500.000 kl <u>Auto</u> M:
50.0				Freq Offs 0 F
70.0			Span 5.000 MHz	
Center 2.402000 GHz Res BW 1.5 MHz	#VBW 5.0 MHz	Sweep 1	Span 5.000 MHz .000 ms (1001 pts)	

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CH39

Agilent Spectrum Analyzer - Swept SA							
Image: RF 50 Ω AC Center Freg 2.480000000	GHz	SENSE:INT	Avg Type			4 Jan 04, 2021 E <mark>1 2 3 4 5 6</mark>	Frequency
	PNO: Fast +++	Trig: Free Run Atten: 30 dB	Avg Hold:	100/100	TYF	E 123456 E MAAAAAAA T P N N N N N	
	II Guill.20			Mkr1	2.479 5	20 GHz	Auto Tune
10 dB/div Ref 20.00 dBm					-7.7	14 dBm	
Log							
10.0							Center Freq 2.480000000 GHz
10.0							2.480000000 GH2
0.00							
		1					Start Freq
-10.0							2.477500000 GHz
-20.0							Stop Freq
-30.0							2.482500000 GHz
-30.0							
-40.0							CF Step
							500.000 kHz Auto Man
-50.0							
							Freq Offset
-60.0							0 Hz
-70.0							
Center 2.480000 GHz	40 (D34)	0.0411-			Span 5	.000 MHz	
#Res BW 1.5 MHz	#VBW \$	DU WIRZ				1001 pts)	
MSG				STATUS			

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8.6 DB 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 SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW \ge 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

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

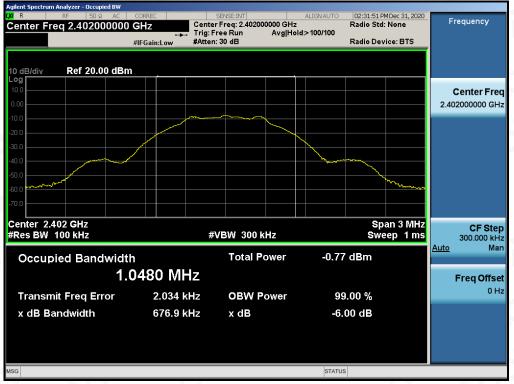
The same as described in section 7.2.

8.3. LIMITS AND MEASUREMENT RESULTS

BLE GFSK 1Mbps

LIMITS AND MEASUREMENT RESULT							
Annlinghig Limite	Applicable Limits						
Applicable Limits	Test Data	Criteria					
	Low Channel	676.9	PASS				
>500KHZ	Middle Channel	675.3	PASS				
	High Channel	674.9	PASS				

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



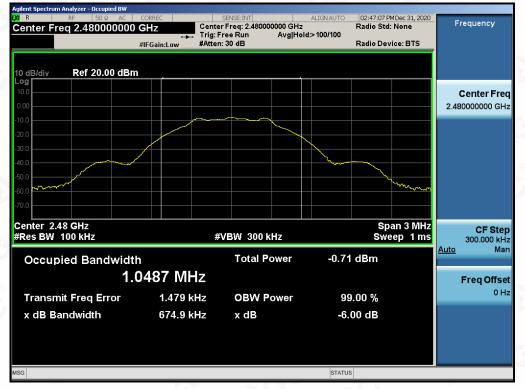
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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BLE GFSK 2Mbps

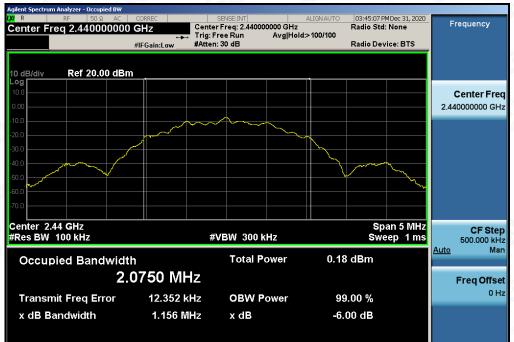
LIMITS AND MEASUREMENT RESULT								
Annicable Limite	Applicable Limits							
Applicable Limits	Test Data	Test Data (kHz)						
	Low Channel	1155	PASS					
>500KHZ	Middle Channel	1156	PASS					
	High Channel	1148	PASS					

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 SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

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

The same as described in section 7.2.

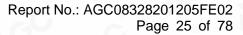
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT								
Applicable Limite	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 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.	At least -20dBc than the reference level	PASS						

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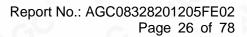








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ilent Spectrum Analyzer - Swept S. R RF 50 Ω enter Freq 13.7417	AC CORREC	SENSE:IN Trig: Free Run Atten: 30 dB	Avg Ty	ALIGNAUTO pe: Log-Pwr ld: 10/10	02:33:41 PM Dec TRACE 1 TYPE M DET P		Frequency
0 dB/div Ref 20.00 dl				Mkr	1 20.630 2 -49.082	GHz dBm	Auto Tun
							Center Fre 13.741750000 G⊦
xo.o 						27.65 dBm	Start Fre 2.483500000 G⊦
50.0 50.0							Stop Fre 25.00000000 GF
tart 2.48 GHz Res BW 100 kHz		W 300 kHz		· · ·	Stop 25.00 2.152 s (3000	0 pts)	CF Ste 2.251650000 GF <u>Auto</u> Ma
ND TRC SCL 1 N 1 f 2 - - - 3 - - - 4 - - - 5 - - - 7 - - - 8 - - - 9 - - -	× 20.630 2 GHz	¥ -49.082 dBm	FUNCTION	UNCTION WIDTH	FUNCTION VA		Freq Offs 0 ⊦
0							

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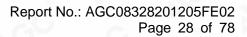
 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



Agilent Spectrum Analyzer - Swep					
Center Freq 2.4400		SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr AvglHold: 10/10	02:39:36 PM Dec 31, 2020 TRACE 12 3 4 5 6 TYPE MWWWW DET P N N N N N	Frequency
	PNO: Wide ↔ IFGain:Low	Atten: 30 dB			Auto Tune
10 dB/div Ref 20.00	dBm		Mkr1 2.	439 992 9 GHz -7.652 dBm	Autorune
0.00		1			Center Freq 2.440000000 GHz
-10.0			~		
-20.0					Start Freq
-30.0					2.438500000 GHz
-50.0					Ctop Erog
-60.0 Marine Marine				North Realistic According	Stop Freq 2.441500000 GHz
-70.0					
Center 2.440000 GHz #Res BW 100 kHz		N 300 kHz	Sweep 2.0	Span 3.000 MHz 00 ms (30000 pts)	CF Step 300.000 kHz
MKR MODE TRC SCL	×	Y F	UNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
1 N 1 f	2.439 992 9 GHz	-7.652 dBm			Freq Offset
3 4 5					0 Hz
6					
8					
10					
				Þ	
MSG			STATUS		
Agilent Spectrum Analyzer - Swep					
Agilent Spectrum Analyzer - Swep	Ω AC CORREC 00000 GHz	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	02:39:45 PM Dec 31, 2020	Frequency
Agilent Spectrum Analyzer - Swep I <mark>XI</mark> RRS50	Ω AC CORREC	Tala Face Day	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:39:45 PM Dec 31, 2020 TRACE 1 2 3 4 5 6 TYPE MANANAN DET PINNINN	
Agilent Spectrum Analyzer - Swep V R RF 50 G 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	02:39:45 PMDec 31, 2020 TRACE 12 3 4 5 6 TYPE MUNAUNAN Det PNNNNN 2.347 78 GHz	Frequency Auto Tune
Agilent Spectrum Analyzer - Swep (27 R RF 503 Center Freq 1.2150 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	02:39:45 PM Dec 31, 2020 TRACE 1 2 3 4 5 6 TYPE MANANAN DET PINNINN	Auto Tune
Agilent Spectrum Analyzer - Swep 20 R RF 503 Center Freq 1.2150 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	02:39:45 PMDec 31, 2020 TRACE 12 3 4 5 6 TYPE MUNAUNAN Det PNNNNN 2.347 78 GHz	
Agilent Spectrum Analyzer - Swep (27 R RF 503 Center Freq 1.2150 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	02:39:45 PMDec 31, 2020 TRACE 12 3 4 5 6 TYPE MUNAUNAN Det PNNNNN 2.347 78 GHz	Auto Tune Center Freq
Agalent Spectrum Analyzer - Swep Q0 R RF S03 Center Freq 1.2150 10 dB/div Ref 20.00 00 00 00 -10 0 00 00 -20 0 00 00	α AC CORREC 000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:39:45 PMDec 31, 2020 TRACE 12 3 4 5 6 TYPE MUNAUNAN Det PNNNNN 2.347 78 GHz	Auto Tune Center Freq 1.21500000 GHz Start Freq
Agilent Spectrum Analyzer - Swep Agilent Spectrum Analyzer - Swep 20 R RF 503 Center Freq 1.2150 10 dB/div Ref 20.00 10 0 000 -10 0	α AC CORREC 000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:39:45 PMDec 31, 2020 TRACE [] 2:3 4:5 6 TYPE [] 2:3 4:5 6 TYPE MAXMANN DET PINNINN 2:347 78 GHz -57.699 dBm	Auto Tune Center Freq 1.21500000 GHz
Agalent Spectrum Analyzer - Swep Q0 R RF S03 Center Freq 1.2150 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	02:39:45 PMDec 31, 2020 TRACE [] 2:3 4:5 6 TYPE [] 2:3 4:5 6 TYPE MAXMANN DET PINNINN 2:347 78 GHz -57.699 dBm	Auto Tune Center Freq 1.21500000 GHz Start Freq 30.000000 MHz
Aglient Spectrum Analyzer - Swep (M R RF 500 Center Freq 1.2150 10 dB/div Ref 20.00 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -60.0 -60.0 -60.0	AC CORREC 000000 GHz PRO: Fast → IFGain:Low dBm	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:39:45 PMDec 31, 2020 TRACE [] 2:3 4:5 6 TYPE [] 2:3 4:5 6 TYPE MAXMANN DET PINNINN 2:347 78 GHz -57.699 dBm	Auto Tune Center Freq 1.21500000 GHz Start Freq
Agilent Spectrum Analyzer - Swep (20 R RF 503 Center Freq 1.2150 503 503 10 dB/div Ref 20.00 503 -10.0	AC CORREC 000000 GHz PRO: Fast → IFGain:Low dBm	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:39:45 PMDec 31, 2020 TRACE 12:3 4 5 6 TYPE 12:3 4 5 6 TYPE 14:00 PM	Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz
Aglient Spectrum Analyzer - Swep (M R RF 500 Center Freq 1.2150 10 dB/div Ref 20.00 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -60.0 -60.0 -60.0	AC CORREC 000000 GHz FRO: Fast → IFGain:Low dBm 4 An Angene of Arg Series (1996) An Angene of Arg Series (1996) Angene of A	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr/	02:39:45 PMDec 31, 2020 TRACE [] 2:3 4:5 6 TYPE [] 2:3 4:5 6 TYPE MAXMANN DET PINNINN 2:347 78 GHz -57.699 dBm	Auto Tune Center Freq 1.21500000 GHz Start Freq 30.000000 MHz Stop Freq 2.40000000 GHz CF Step 237.000000 MHz
Agilent Spectrum Analyzer - Swep Agilent Spectrum Analyzer - Swep Center Freq 1.2150 10 dB/div Ref 20.00 10 dB	AC CORREC 000000 GHZ IFGain:Low dBm dBm dBm dBm dBm dBm dBm dBm	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr/	02:39:45 FMDec 31, 2020 TRACE 12:34 5 6 TYPE	Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step
Agilent Spectrum Analyzer - Swep (20 R R Ref 20.00 Center Freq 1.2150 10 dB/div Ref 20.00 10 0 0 00 -10 0 -20 0 -30 0 -40 0 -50 0 -70 0 Start 30 MHz #Res BW 100 kHz MKR MDDE TRC SCL 1 N 1 f 2	AC CORREC OQUOO GHZ PRO: Fast → IFGain:Low dBm	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	02:39:45 PMDec 31, 2020 TRACE [] 2 3 4 5 6 TYPE [] 2 3 4 5 6 TYPE MANNANN DET PANNANN 1 2.347 78 GHz -57.699 dBm -27.65 d	Start Freq 30.00000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz Auto Man
Agilent Spectrum Analyzer - Swep QR RF 503 Center Freq 1.2150 10 dB/div Ref 20.00 20 dB/div Ref 20.00	AC CORREC 000000 GHZ IFGain:Low dBm dBm dBm dBm dBm dBm dBm dBm	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	02:39:45 PMDec 31, 2020 TRACE [] 2 3 4 5 6 TYPE [] 2 3 4 5 6 TYPE MANNANN DET PANNANN 1 2.347 78 GHz -57.699 dBm -27.65 d	Auto Tune
Agilent Spectrum Analyzer - Swep (20 R R Ref 20.00 Center Freq 1.2150 Center Freq 1.2150 10 dB/div Ref 20.00 10 0 0 00 -0 0 -0 0	AC CORREC 000000 GHZ IFGain:Low dBm dBm dBm dBm dBm dBm dBm dBm	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	02:39:45 PMDec 31, 2020 TRACE [] 2 3 4 5 6 TYPE [] 2 3 4 5 6 TYPE MANNANN DET PANNANN 1 2.347 78 GHz -57.699 dBm -27.65 d	Auto Tune
Agilent Spectrum Analyzer - Swep Agilent Spectrum Analyzer - Swep QR RF S03 Center Freq 1.2150 10 dB/div Ref 20.00 20 dB/div Ref 20.00	AC CORREC 000000 GHZ IFGain:Low dBm dBm dBm dBm dBm dBm dBm dBm	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	02:39:45 PMDec 31, 2020 TRACE [] 2 3 4 5 6 TYPE [] 2 3 4 5 6 TYPE MANNANN DET PANNANN 1 2.347 78 GHz -57.699 dBm -27.65 d	Auto Tune Center Freq 1.21500000 GHz Start Freq 30.000000 MHz Stop Freq 2.40000000 GHz CF Step 237.000000 MHz
Aglient Spectrum Analyzer - Swep (All R RF 500 Center Freq 1.2150 10 dB/div Ref 20.00 10	AC CORREC 000000 GHZ IFGain:Low dBm dBm dBm dBm dBm dBm dBm dBm	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	02:39:45 PMDec 31, 2020 TRACE [] 2 3 4 5 6 TYPE [] 2 3 4 5 6 TYPE MANNANN DET PANNANN 1 2.347 78 GHz -57.699 dBm -27.65 d	Auto Tune

GFSK MODULATION IN MIDDLE CHANNEL

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ilent Spectrum Analyzer - Swept 9 R RF 50 Ω enter Freq 13.7417	AC CORREC	SENSE:IN	Avg Typ	ALIGNAUTO e: Log-Pwr i: 10/10	02:40:10 PM Dec 31, 20 TRACE 12 3 4 TYPE MWWW	56 Frequency
0 dB/div Ref 20.00 d	IFGain:Low	Atten: 30 dB		Mkr	0et <mark>₽NNN</mark> 1 20.647 4 GH -49.661 dB	Auto Tun
og 0.00 0.00						Center Fre 13.741750000 GH
					-27.65 0	Bm Start Fre 2.483500000 GH
io.o 0.0 mental for the formula the formula formula 0.0						Stop Fre 25.000000000 GH
tart 2.48 GHz Res BW 100 kHz	#VE	W 300 kHz	FUNCTION FU	Sweep 2	Stop 25.00 GI 2.152 s (30000 p FUNCTION VALUE	1z CF Ste (s) 2.251650000 GF Auto Mi
No. Open Processor Open Processor <td>20.647 4 GHz</td> <td>-49.661 dBm</td> <td></td> <td></td> <td>TORCHORYALOC</td> <td>Freq Offs 0 F</td>	20.647 4 GHz	-49.661 dBm			TORCHORYALOC	Freq Offs 0 F
						-

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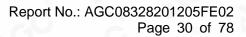
 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com
 Web: http://cn.agc-cert.com/



Agilent Spectrum Analyzer - Swep	pt SA				
Center Freq 2.4800		SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:48:23 PM Dec 31, 2020 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N	Frequency
	PNO: Wide ↔ IFGain:Low	Atten: 30 dB		_{ет} <u>р NNNN</u> .479 983 5 GHz	Auto Tune
10 dB/div Ref 20.00	dBm		WINT 2.	-7.703 dBm	
10.0					Center Freq
-10.0		1			2.480000000 GHz
-20.0					Start Freq
-30.0					2.478500000 GHz
-50.0				- Contraction of the second se	Stop Freq
-60.0 +				www.	2.481500000 GHz
Center 2.480000 GH	7			Span 3.000 MHz	CF Step
#Res BW 100 kHz		№ 300 kHz		000 ms (30000 pts)	300.000 kHz Auto Man
MKR MODE TRC SCL	× 2.479 983 5 GHz	۲ -7.703 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	
2 3 4					Freq Offset 0 Hz
5 6 7					
8					
10 11 •				v	
MSG					
			STATUS		
	Ω AC CORREC	SENSE:INT	ALIGNAUTO	02:48:32 PMDec 31, 2020	Frequency
	Ω AC CORREC 000000 GHz PNO: Fast ↔	Trig: Free Run			Frequency
07 R RF 50 Center Freq 1.2150	Ω AC CORREC 000000 GHz PN0: Fast ↔ IFGain:Low	T.I. F. F.	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:48:32 PMDec 31, 2020 TRACE 2 3 4 5 6 TYPE MWWWW DET P.NNNNN 1 1.945 73 GHz	Frequency Auto Tune
W R RF 50 Center Freq 1.2150 1.2150 10 dB/div Ref 20.00 -9 -9	Ω AC CORREC 000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:48:32 PM Dec 31, 2020 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P.N.N.N.N.N	Auto Tune
IX R RF S0 Center Freq 1.2150 Image: Solid state stat	Ω AC CORREC 000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:48:32 PMDec 31, 2020 TRACE 2 3 4 5 6 TYPE MWWWW DET P.NNNNN 1 1.945 73 GHz	
Image: Wight Red Provided HTML Red Provided	Ω AC CORREC 000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:48:32 PMDec 31, 2020 TRACE 2 3 4 5 6 TYPE MWWWW DET P.NNNNN 1 1.945 73 GHz	Auto Tune Center Freq 1.215000000 GHz
Image: Wight Repairs of the second	Ω AC CORREC 000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:48:32 PMDec 31, 2020 TRACE 2 3 4 5 6 TYPE MWWWW DET P.NNNNN 1 1.945 73 GHz	Auto Tune Center Freq
Image: Wight Red Provided HTML Red Provided	Ω AC CORREC 000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:48:32 PMDec 31, 2020 TRACE 12:34:56 TYPE MAXMANN DET PINNINN 1 1.945 73 GHz -57.874 dBm	Auto Tune Center Freq 1.21500000 GHz Start Freq
Image: Wight Red Price Red Price So Center Freq 1.2150	2 AC CORREC 1000000 GHz PR0: Fast → IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:48:32 PMDec 31, 2020 TRACE 12:34:56 TYPE MAXMANN DET PINNINN 1 1.945 73 GHz -57.874 dBm	Auto Tune Center Freq 1.21500000 GHz Start Freq
XX R RF 50 Center Freq 1.2150 Ref 20.00 Ref 20.00 10 dB/div Ref 20.00 100	2 AC CORREC 1000000 GHz PR0: Fast → IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:48:32 PMDec 31, 2020 TRACE D 2 4 5 6 TYPE MANAGEMENT PET NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz
XX R RF 50 Center Freq 1.2150 Ref 20.00 Ref 20.00 10 0 0 0 10.0 0 0 0 10.0 0 0 0 -10.0 0 0 0 -20.0 0 0 0 -40.0 0 0 0 -50.0 0 0 0 -60.0 0 0 0	2 AC CORREC 1000000 GHz PRO: Fast → IFGain:Low 2 dBm 4 dBm	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr	02:48:32 PMDec 31, 2020 TRACE 12:34:56 TYPE MAXMANN DET PINNINN 1 1.945 73 GHz -57.874 dBm	Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz
X R PF 50 Center Freq 1.2150 Ref 20.00 Ref 20.00 <thref 20.00<="" th=""> Ref 20.00 R</thref>	Q AC CORREC 1000000 GHz FRO: Fast IFGain:Low IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr	02:48:32 PMDec 31, 2020 TRACE 0.2 8 4 5 6 TYPE 0.00000000000000000000000000000000000	Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz
X R PF 50 Center Freq 1.2150 Ref 20.00 Ref 20.00 <thref 20.00<="" th=""> Ref 20.00 R</thref>	Ω AC CORREC 000000 GHz PRO: Fast PRO: Fast IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	02:48:32 PMDec 31, 2020 TRACE [] 2 3 4 5 6 Type [] 2 4	Auto Tune
X R RF SO Center Freq 1.2150 Conter Freq 1.2150 Conter Freq 1.2150 10 dB/div Ref 20.00 Conter Freq 1.2150 -10 d Conter Freq 1.2150 Conter Freq 1.2150 -20 d Conter Freq 1.2150 Conter Freq1.2150	Q AC CORREC 1000000 GHz FRO: Fast IFGain:Low IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	02:48:32 PMDec 31, 2020 TRACE [] 2 3 4 5 6 Type [] 2 4	Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz
XX R RF SO Center Freq 1.2150 Center Freq 1.2150 Center Freq 1.2150 10 General Action Ref 20.00 Center Freq 1.2150 100 Center Freq 1.2150 Center Freq 1.2150 1	Q AC CORREC 1000000 GHz FRO: Fast IFGain:Low IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	02:48:32 PMDec 31, 2020 TRACE [] 2 3 4 5 6 Type [] 2 4	Auto Tune
X R PF SO Center Freq 1.2150 Center Freq 1.2150 Center Freq 1.2150 Log	Q AC CORREC 1000000 GHz FRO: Fast IFGain:Low IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	02:48:32 PMDec 31, 2020 TRACE [] 2 3 4 5 6 Type [] 2 4	Auto Tune

GFSK MODULATION IN HIGH CHANNEL

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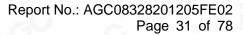




Agilent Spectru											
Center F	RF rea			REC		NSE:INT		ALIGN AUTO Type: Log-Pw	r TRA	MDec 31, 2020 CE 123456	Frequency
			PI	NO: Fast + Gain:Low	Atten: 30		Avgļi	Hold: 10/10			
10 dB/div	Rei	f 20.00 c	lBm					MI	(r1 21.62 -49.9	9 4 GHz 58 dBm	Auto Tune
Log 10.0 0.00 -10.0											Center Freq 13.750000000 GHz
-20.0 -30.0 -40.0									1-	-27.70 dBm	Start Freq 2.50000000 GHz
-50.0 -60.0 -70.0		a hara dharana dha Anna an anna an anna		~~~							Stop Freq 25.00000000 GHz
Start 2.50 #Res BW	I 100	kHz	X		W 300 kHz Y	FUN	ICTION	Sweep	2.152 s (3	25.00 GHz 80000 pts)	CF Step 2.25000000 GHz <u>Auto</u> Man
1 N 2 3 4 5 6 7 8 9 10 11			21.629	4 GHz	-49.958 di	Bm					Freq Offset 0 Hz
MSG								STAT	TUS		

Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.

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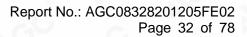








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Agilent Spectrum Analyzer - Swept SA					
R R R SO Ω AC Center Freq 13.7417500	00 GHz	Avg Type	e: Log-Pwr	16 PM Dec 31, 2020 TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast Trig: Free IFGain:Low Atten: 30		: 10/10	TYPE MWWWWW DET PNNNNN	
10 dB/div Ref 20.00 dBm				718 8 GHz 9.634 dBm	Auto Tune
10.0 0.00 -10.0					Center Freq 13.741750000 GHz
-20.0				-27.57 dBm	Start Freq 2.483500000 GHz
-50.0 -60.0 4.44-5					Stop Freq 25.00000000 GHz
Start 2.48 GHz #Res BW 100 kHz		FUNCTION FU	Sweep 2.152	p 25.00 GHz s (30000 pts)	CF Step 2.251650000 GHz <u>Auto</u> Man
2 3 4 5	3.718 8 GHz -49.634 dl	Bm			Freq Offset 0 Hz
6 7 8 9 10 11					
MSG			STATUS		

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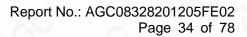
 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



R RF 50 Enter Freq 2.440	000000 GHz PNO: Wide +	SENSE:INT → Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:53:14 PM Dec 31, 2020 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N	Frequency
dB/div Ref 20.00	IFGain:Low _	Atten: 50 dB	Mkr1 2.4	39 990 08 GHz -7.376 dBm	Auto Tu
		1			Center Fr 2.440000000 G
					Start F 2.437500000 0
					Stop F 2.442500000
enter 2.440000 GH les BW 100 kHz		W 300 kHz	Sweep 2.0	Span 5.000 MHz 00 ms (30000 pts)	CF St 500.000
R MODE TRC SCL	× 2.439 990 08 GHz	Y F	UNCTION FUNCTION WIDTH	FUNCTION VALUE	Freq Off C
ent Spectrum Analyzer - Swe			STATUS		
ent Spectrum Analyzer - Swe R RF Sc Inter Freq 1.215	Ω AC CORREC 0000000 GHz PN0: Fast ← IFGain:Low	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:53:23 PMDec 31,2020 TRACE [] 23 4 5 6 TYPE MOMMON OF PINNIN N 2.254 95 GHz -57 954 dBm	
ent Spectrum Analyzer - Swe R RE SC Inter Freq 1.215	Ω AC CORREC 0000000 GHz PN0: Fast ← IFGain:Low	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 123456 TYPE MWWWWW DET PNNNNN	Auto Ti Center F
dB/div Ref 20.00	Ω AC CORREC 0000000 GHz PN0: Fast ← IFGain:Low	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10		Auto Tr Center F 1.21500000 Start F
dB/div Ref 20.00	AC CORREC C	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	1742E 10 23 45 6 TYPE MMMMM DEP PINNINN 2.254 95 GHz -57.954 dBm	Auto Tr Center F 1.215000000 Start F 30.000000 1 Stop F
a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a	AC CORREC ODDOOOO GHz PN0: Fast - IFGain:Low OdBm OdBm	 Trig: Free Run Atten: 30 dB Atten: 4 dB Atten: 4 dB Atten: 4 dB Atten: 4 dB 	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr1	TRACE 10.2.4.5.6 TYPE MAXMAN DET MAXMAN 2.254 95 GHz -57.954 dBm -27.38 dBm -27.38 dBm -1 -27.38 dBm -27.38 dBm -27.39 dB	Auto T Center F 1.215000000 Start F 30.000000 Stop F 2.400000000 CF S 237.000000
Birdiv Ref 20.01 9	AC CORREC OCORREC PRO: Fast IFGain:Low OdBm Od	 Trig: Free Run Atten: 30 dB Atten: 4 dB Atten: 4 dB Atten: 4 dB Atten: 4 dB 	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr1	TRACE [] 2.3 4 5 6 TYPE MAXMAN 2.254 95 GHz -57.954 dBm -27.38 dBm 1 -27.38 dBm	Auto T Center F 1.215000000 Start F 30.000000 Stop F 2.400000000 CF S 237.000000 Auto Freq Of
9 0 0 1 0 0 2 0 0 3 0 0 8 0 0 9 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 1 1 2 1 1	R AC CORREC 0000000 GHz PR0: Fast IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr1	TRACE 10.2.4.5.6 TYPE MAXMAN DET MAXMAN 2.254 95 GHz -57.954 dBm -27.38 dBm -27.38 dBm -1 -27.38 dBm -27.38 dBm -27.39 dB	Auto Tu Center F 1.215000000 f Start F 30.000000 f Stop F 2.400000000 f CF S 237.000000 f

GFSK MODULATION IN MIDDLE CHANNEL

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Agilent Spectrum Analyzer - Swept SA					
R R R F S0 Ω AC Center Freq 13.74175000		NSE:INT Ava Tim	ALIGNAUTO 0 e: Log-Pwr	3:53:48 PM Dec 31, 2020 TRACE 1 2 3 4 5 6	Frequency
Center Freq 15.74 175000	PNO: Fast +++ Trig: Free	e Run Avg Hold		TYPE MWWWWWW DET P N N N N N	
	IFGain:Low Atten: 30) dB			Auto Tune
				24.729 0 GHz	Autorune
10 dB/div Ref 20.00 dBm				-49.594 dBm	
Log					Contor From
					Center Freq 13.741750000 GHz
0.00					13.741750000 GHZ
-10.0					
-20.0				-27.38 dBm	Start Freq
-30.0					2.483500000 GHz
-40.0				1	
-50.0			المتعلقين والمعادية		
-60.0	and the second second second	in the second	The second s		Stop Freq
-70.0					25.00000000 GHz
10.0					
Start 2.48 GHz				Stop 25.00 GHz	CF Step
#Res BW 100 kHz	#VBW 300 kHz		Sweep 2.1	52 s (30000 pts)	2.251650000 GHz
MKR MODE TRC SCL X	Y		NCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
1 N 1 f 24.	.729 0 GHz -49.594 dE	Bm			
3					Freq Offset
4					0 Hz
6					
8					
9					
10					
MSG			STATUS		

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 E-mail: agc@agc-cert.com





GFSK MODULATION IN HIGH CHANNEL

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Report No.: AGC08328201205FE02 Page 36 of 78

Agilent Spectrum Analyzer - Swept SA							
IX/R RF 50Ω AC	CORREC	SENSE:IN		ALIGN AUTO		Dec 31, 2020	Frequency
Center Freq 13.7500000	DU GHZ PNO: Fast +++	Trig: Free Rur		Type: Log-Pwr Iold: 10/10	TYPE	123456 M	
	IFGain:Low	Atten: 30 dB			DE	PNNNN	
				Mke	1 24.940	7 6 4 7	Auto Tune
				IVIKI	_/0 70	3 dBm	
10 dB/div Ref 20.00 dBm					-40.72	o ubiii	
10.0							Center Freq
							•
0.00							13.750000000 GHz
-10.0							
-20.0							Otort From
-30.0						-27.35 dBm	Start Freq
							2.500000000 GHz
-40.0						<u> </u>	
-50.0			ana antes dilemina	and the still summitteest	and the second	al perileperent a	Oton From
-60.0	an a	alimite de selle			Contraction of the local division of the loc		Stop Freq
-70.0							25.00000000 GHz
-70.0							
Start 2.50 GHz					Stop 25	.00 GHz	CF Step
#Res BW 100 kHz	#\/B\A()	300 kHz		Sween 2	2.152 s (30	000 0112	2.250000000 GHz
				-			<u>Auto</u> Man
MKR MODE TRC SCL X	0407.00	Y 40.702 JBm	FUNCTION	FUNCTION WIDTH	FUNCTION	VALUE <u></u>	
2 1 F 24	.940 7 GHz	-48.723 dBm					
3							Freq Offset
4							0 Hz
5							
7							
8 9							
10							
11						-	
MSG				STATUS			

Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.

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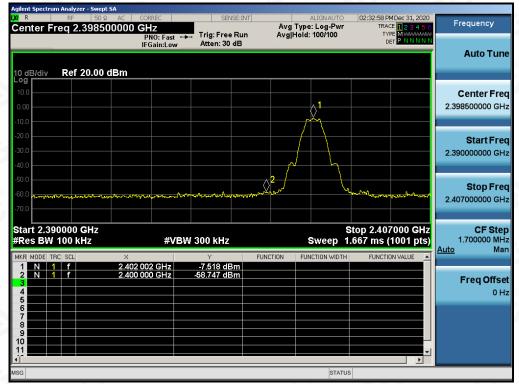
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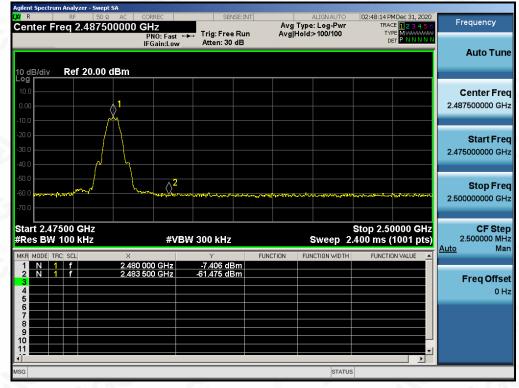
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BLE GFSK 1Mbps TEST RESULT FOR BAND EDGE GFSK MODULATION IN LOW CHANNEL



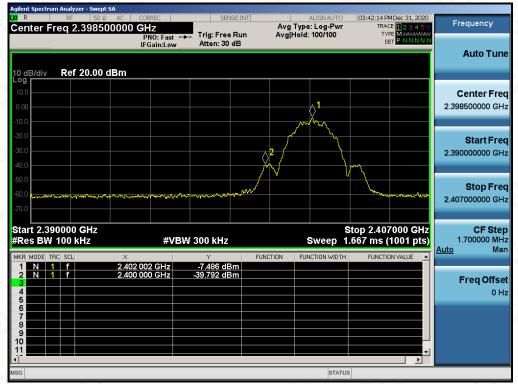
GFSK MODULATION IN HIGH CHANNEL



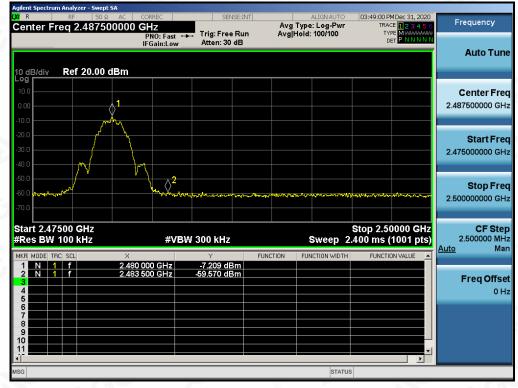
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BLE GFSK 2Mbps TEST RESULT FOR BAND EDGE GFSK MODULATION IN LOW CHANNEL



GFSK MODULATION IN HIGH CHANNEL



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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1. 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 SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

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

Refer to Section 7.2.

10.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

10.4. LIMITS AND MEASUREMENT RESULT

BLE GFSK 1Mbps PSD Limit Channel No. Result (dBm/3kHz) (dBm/3kHz) Low Channel -23.173 8 Pass Middle Channel -23.053 8 Pass **High Channel** -22.855 8 Pass

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

Cepter Fred 2 / 8000000 GHz Avg Type: Log-Pwr TRA	M Dec 31, 2020 CE 123456 (PE M WWWWWW DET P N N N N N	Frequency
PNO: Wide Trig: Free Run Avg Hold: 100/100		
IFGain:Low Atten: 30 dB	DET E NINININ N	1
		A
Mkr1 2.479 94		Auto Tune
	155 dBm	
		Center Freq
		2.480000000 GHz
		Start Freq
		2.479493841 GHz
-10.0		2.479493841 GH2
-20.0		Stop Freq
-30.0		2.480506159 GHz
-30.0 DAMANANANANA	0.0	
and the second	" WWWWW	OF Otom
-40.0	n"	CF Step 101.232 kHz
		Auto Man
-50.0		
		Erog Offeet
-60.0		Freq Offset
		U H2
-70.0		
Center 2.4800000 GHz Span 1	1.012 MHz	
#Res BW 3.0 kHz #VBW 10 kHz Sweep 106.8 ms	(1001 pts)	
MSG STATUS		

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	BLE GFSK 2	Mbps	
Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-24.364	8	Pass
Middle Channel	-24.578	8	Pass
High Channel	-24.781	8	Pass

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

Agilent Spectrum Analyzer - Swept SA					
X RF 50 Ω AC Center Freq 2.480000000 C C C C	CORREC	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwi		Frequency
Center Freq 2.48000000	PNO: Wide +++	Trig: Free Run	Avg Hold: 100/100	TYPE MIAAAAAAAA	
	IFGain:Low	Atten: 30 dB		DET PNNNN	
			Mkr1	2.479 948 3 GHz	Auto Tune
10 dB/div Ref 20.00 dBm				-24.781 dBm	
Log					
					Center Freq
10.0					2.480000000 GHz
0.00					
					Start Freq
-10.0					2.479138703 GHz
-20.0		1			Stop Freq
					2.480861297 GHz
-30.0	and the latter	mar Malake	avaluation to be		2.480801297 GHZ
and to any house and and	Mun kange a			marshar hardle all -	
-40.0 Mont Ul/C 10-					CF Step
-40.0					172.259 kHz
50.0					<u>Auto</u> Man
-50.0					
					Freq Offset
-60.0					0 Hz
-70.0					
Center 2.4800000 GHz				Span 1.723 MHz	
#Res BW 3.0 kHz	#VBM	10 kHz	Sween	181.7 ms (1001 pts)	
· · · · ·					
MSG			STAT	05	

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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

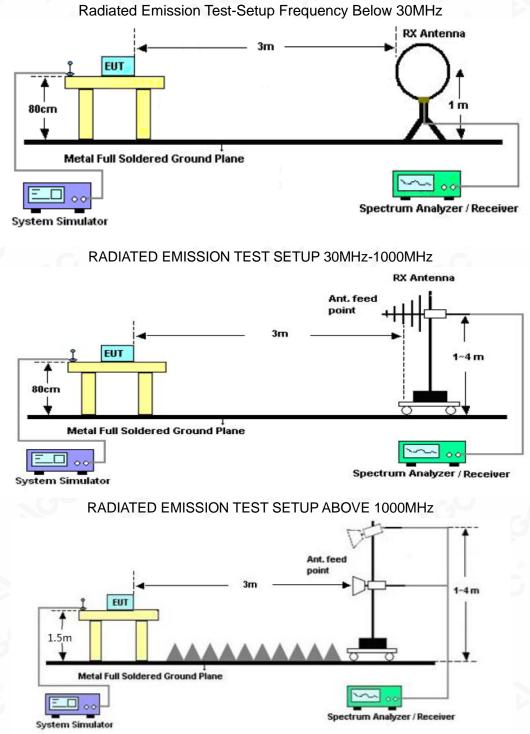
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated 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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11.2. TEST SETUP



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Attestation of Global Compliance(Shenzhen)Co., Ltd Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/

11.3. 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.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHz

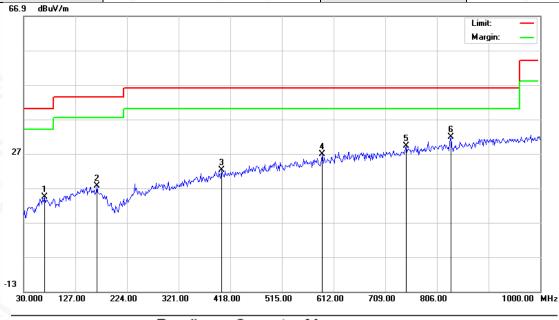
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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RADIATED EMISSION	BELOW 1GHZ
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EUT	Hybrid Active Noise Cancellation Earbuds	Model Name	ANC-834C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		68.8000	-2.50	16.96	14.46	40.00	-25.54	peak
2		167.4167	-0.76	18.43	17.67	43.50	-25.83	peak
3		401.8333	-0.76	23.02	22.26	46.00	-23.74	peak
4		590.9833	0.13	26.77	26.90	46.00	-19.10	peak
5		747.8000	0.05	29.23	29.28	46.00	-16.72	peak
6	*	831.8667	1.08	30.82	31.90	46.00	-14.10	peak

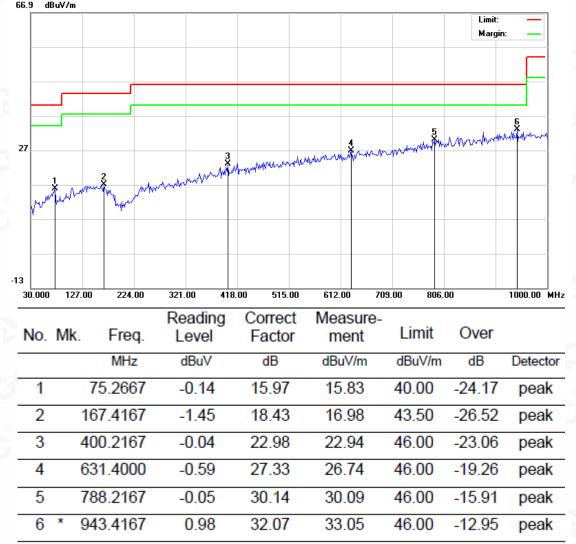
RESULT: PASS

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EUT	Hybrid Active Noise Cancellation Earbuds	Model Name	ANC-834C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical
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RESULT: PASS Note:

- 1. Factor=Antenna Factor + Cable loss, Over= Measurement -Limit.
- 2. All test modes had been tested. The mode 3 is the worst case and recorded in the report.

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RADIATED EMISSION ABOVE 1GHZ

EUT	Hybrid Active Noise Cancellation Earbuds	Model Name	ANC-834C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	43.68	0.08	43.76	74	-30.24	peak
4804.000	35.53	0.08	35.61	54	-18.39	AVG
7206.000	38.47	2.21	40.68	74	-33.32	peak
7206.000	31.51	2.21	33.72	54	-20.28	AVG
69	. <u>.</u>			S	-0	
Remark:			©			
actor = Anter	nna Factor + Cab	le Loss – Pre-	amplifier.	8		

EUT	Hybrid Active Noise Cancellation Earbuds	Model Name	ANC-834C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	44.86	0.08	44.94	74	-29.06	peak
4804.000	34.35	0.08	34.43	54	-19.57	AVG
7206.000	38.47	2.21	40.68	74	-33.32	peak
7206.000	30.24	2.21	32.45	54	-21.55	AVG
8						

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EUT	Hybrid Active Noise Cancellation Earbuds	Model Name	ANC-834C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4880.000	44.54	0.14	44.68	74	-29.32	peak
4880.000	35.32	0.14	35.46	54	-18.54	AVG
7320.000	39.48	2.36	41.84	74	-32.16	peak
7320.000	31.36	2.36	33.72	54	-20.28	AVG
- 6	0				8	
emark:						
actor = Anter	nna Factor + Cable	Loss – Pre-	amplifier.			

EUT	Hybrid Active Noise Cancellation Earbuds	Model Name	ANC-834C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4880.000	46.73	0.14	46.87	74 💿	-27.13	peak
4880.000	38.36	0.14	38.5	54	-15.5	AVG
7320.000	40.29	2.36	42.65	74	-31.35	peak
7320.000	32.46	2.36	34.82	54	-19.18	AVG
8			20			
mark:						

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EUT	Hybrid Active Noise Cancellation Earbuds	Model Name	ANC-834C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	44.67	0.22	44.89	74	-29.11	peak
4960.000	35.39	0.22	35.61	54	-18.39	AVG
7440.000	38.67	2.64	41.31	74	-32.69	peak
7440.000	29.41	2.64	32.05	54	-21.95	AVG
- 6	8				8	
emark:						
actor = Anter	nna Factor + Cable	Loss – Pre-	amplifier.			

EUT	Hybrid Active Noise Cancellation Earbuds	Model Name	ANC-834C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	42.59	0.22	42.81	74	-31.19	peak
4960.000	34.62	0.22	34.84	54 💿	-19.16	AVG
7440.000	38.48	2.64	41.12	74	-32.88	peak
7440.000	29.44	2.64	32.08	54	-21.92	AVG
		200				69
emark: 🦳				C	6	

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.

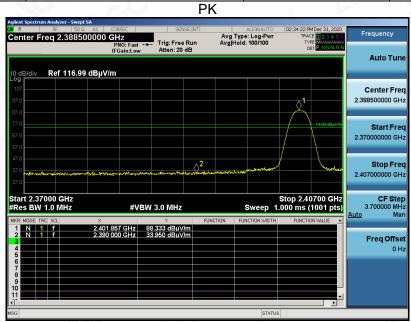
The "Factor" value can be calculated automatically by software of measurement system.

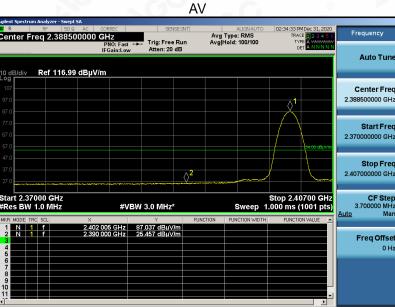
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BLE GFSK 1Mbps TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	Hybrid Active Noise Cancellation Earbuds	Model Name	ANC-834C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal





RESULT: PASS

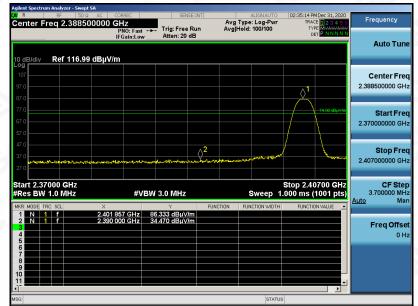
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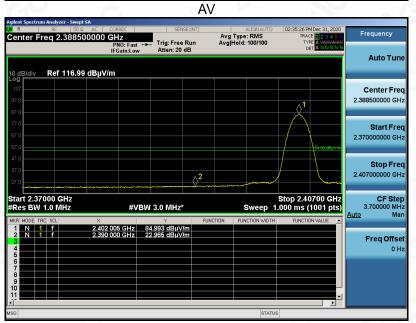


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Temperature 25°	5°C	Relative Humidity	55.4%
Pressure 960	60hPa	Test Voltage	Normal Voltage
Test Mode Mo	ode 1	Antenna	Vertical

PK





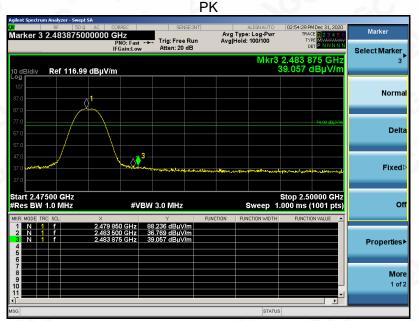
RESULT: PASS

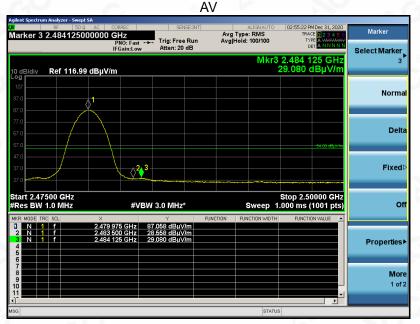
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EUT	Hybrid Active Noise Cancellation Earbuds	Model Name	ANC-834C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal
	DI		





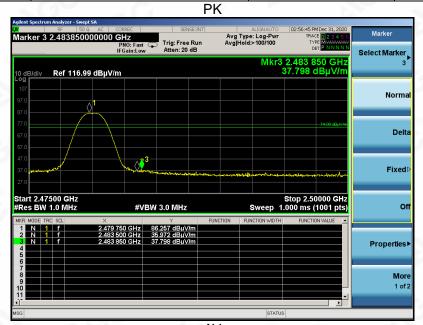
RESULT: PASS

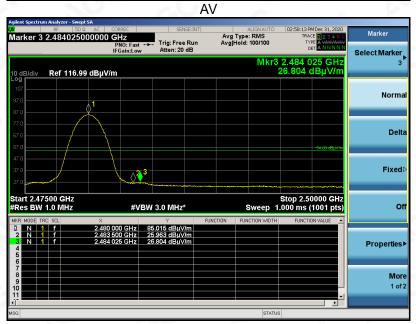
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Test Mode	Mode 3	Antenna	Vertical
Pressure	960hPa	Test Voltage	Normal Voltage
Temperature	25° C	Relative Humidity	55.4%
EUT	Hybrid Active Noise Cancellation Earbuds	Model Name	ANC-834C





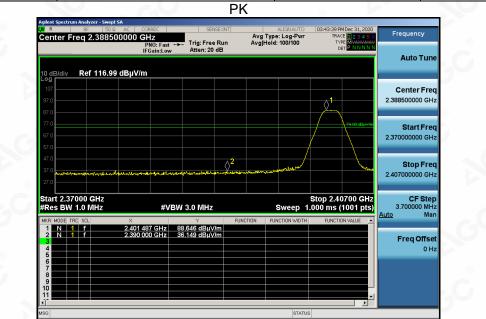
RESULT: PASS Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

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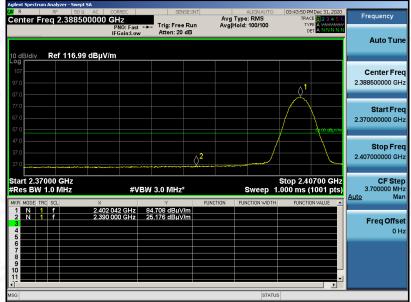


BLE GFSK 2Mbps TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	Hybrid Active Noise Cancellation Earbuds	Model Name	ANC-834C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal



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RESULT: PASS

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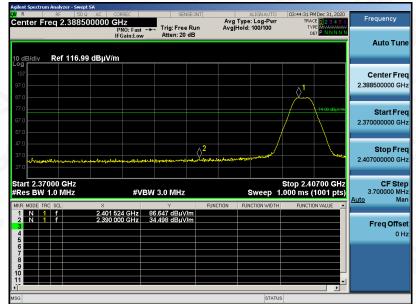
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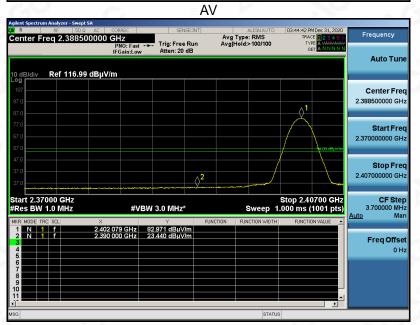


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EUT	Hybrid Active Noise Cancellation Earbuds	Model Name	ANC-834C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

PK





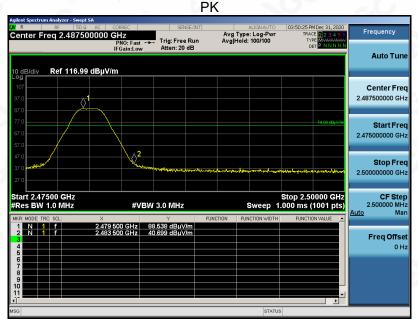
RESULT: PASS

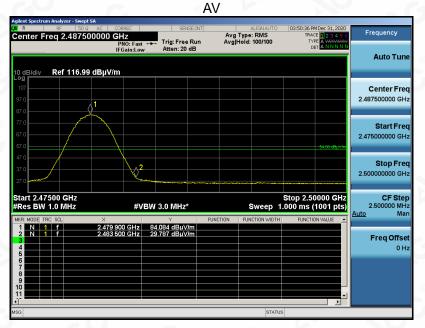
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EUT	Hybrid Active Noise Cancellation Earbuds	Model Name	ANC-834C	
Temperature	25° C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	Mode 3	Antenna	Horizontal	





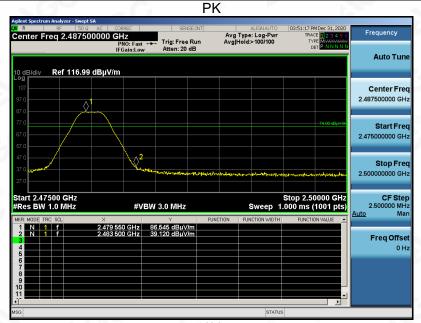
RESULT: PASS

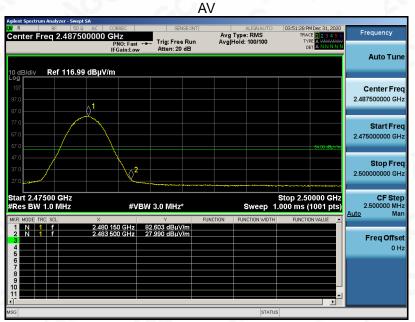
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EUT	Hybrid Active Noise Cancellation Earbuds	Model Name	ANC-834C
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical





RESULT: PASS Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 1GHZ



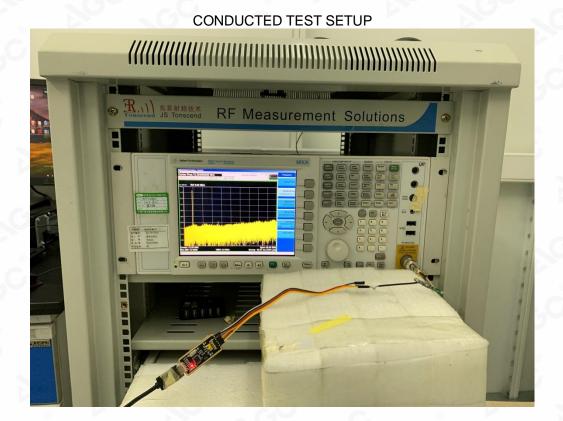
RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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