

FCC Test Report

Report No.: AGC02390201204FE02

FCC ID	©. •	2ABRU-RFM208
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Multi-Band Wireless Module
BRAND NAME		BDE
MODEL NAME	÷	BDE-RFM208, BDE-RFM208-IN
APPLICANT		Guangzhou BDE Technology Inc.
DATE OF ISSUE	© •	Feb. 02, 2021
STANDARD(S)	:	FCC Part 15.247
REPORT VERSION	:	V1.0





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REPORT REVISE RECORD

Report Version	on Revise Time	Issued Date	Valid Version	Notes
V1.0		Feb. 02, 2021	Valid	Initial Release

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he test results

1. VERIFICATION OF COMPLIANCE

Applicant	Guangzhou BDE Technology Inc.
Address	B2-403, Chuangyi Building, 162 Science Avenue, Huangpu District, Guangzhou 510663, China
Manufacturer	Guangzhou BDE Technology Inc.
Address	B2-403, Chuangyi Building, 162 Science Avenue, Huangpu District, Guangzhou 510663, China
Factory	Guangzhou BDE Technology Inc.
Address	B2-403, Chuangyi Building, 162 Science Avenue, Huangpu District, Guangzhou 510663, China
Product Designation	Multi-Band Wireless Module
Brand Name	BDE
Test Model	BDE-RFM208
Series Model	BDE-RFM208-IN
Difference description	All the series models are the same as the test model except for the model names and Limit operating temperature: BDE-RFM208-IN can operate from -40 $^{\circ}$ C to 105 $^{\circ}$ C, while BDE-RFM208 operates from -40 $^{\circ}$ C to 85 $^{\circ}$ C
Date of test	Dec. 23, 2020 to Feb. 02, 2021
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	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.

Eddy Lin Prepared By Eddy Liu Feb. 02, 2021 (Project Engineer) Max Zhank **Reviewed By** Max Zhang Feb. 02, 2021 (Reviewer) Approved By Forrest Lei Feb. 02, 2021 (Authorized Officer) dicated Fest Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by t g/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written anthorization of AGE ce of the test report.

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a "Multi-Band Wireless Module". 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

Operation Frequency	2.402 GHz to 2.480GHz	
RF Output Power	4.723dBm (Max) For BLE 125KHz 4.608dBm (Max) For BLE 500KHz 4.722dBm (Max) For BLE 1M 4.718dBm (Max) For BLE 2M	
Bluetooth Version	V5.0	
Modulation	BR □GFSK, EDR □π /4-DQPSK, □8DPSK BLE ⊠GFSK 125KHz⊠GFSK 500KHz ⊠GFSK 1Mbps ⊠GFSK 2Mbps	
Number of channels	of channels 40 Channels	
Antenna Designation	tenna Designation PCB Antenna (Comply with requirements of the FCC part 15.203)	
Antenna Gain	2.9dBi	
Hardware Version	V1.0	
Software Version	V1.0	
Power Supply	DC 3.3V	
Note: 1. The EUT doesn't su 2. All of the models a	upport BR/EDR. are tested and the main model test data recorded in this report.	

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	0	2402 MHz
	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: 2ABRU-RFM208 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(2402MHz)
2	Middle channel TX(2440MHz)
3	High channel TX(2480MHz)

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

Elle Settings View Evaluation Board Help Continuous TX Start Stop Command View RF Parameters 	
Target Configuration RF Design Based On: LAUNCHXL-CC1352R1-2_4GHZ Ø Ø Cap-array Tuning	Customize
Typical Settings	
Category Setting Name Settings	
Biuetooth 5, LE 1M PHY (1 Msym/s GFSK, 1 Mbps data rate) Packet Tx with AUX_ADV_IND PDU Biuetooth 5, LE 2M PHY (2 Msym/s GFSK, 2 Mbps data rate) Packet Tx with AUX_ADV_IND PDU	E
Bulactouth 5, LE Coded PHY with S=2 coding (1 Msym/s GFSK, 500 kbps data rate) - Packet Tx with AUX_ADV_IND PDU Bluetoth 5, LE Coded PHY with S=3 coding (1 Msym/s GFSK, 500 kbps data rate) - Packet Tx with AUX_ADV_IND PDU	
RF Parameters 🔞	• ⁰ K/s 34 %
BLE Channel TX Power	0.8 K//s
17 2440 MHz	dBm
Continuous TX Continuous RX Packet TX Packet RX	
Modulated	
Frequency Sweep	
Start Freq.: MHz	
Stop Freq.: MHz	
Deta Freq.: MHz Time: ms	

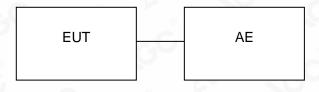
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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:

EUT AE

5.2. EQUIPMENT USED IN TESTED SYSTEM

ltem	Equipment	Model No.	ID or Specification	Remark
1	Multi-Band Wireless Module	BDE-RFM208	2ABRU-RFM208	EUT
2	Mobile phone	TCL	J326T	AE
3	PC	HUAWEI	DC 5V	AE
4	Control board	C3	DC 3.3V	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	Compliant

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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 Commun Fuhai Street, Bao'an District, Shenzhen, Guangdong, China					
Designation Number	CN1259					
FCC Test Firm Registration Number	975832					
A2LA Cert. No.	5054.02					
Description	Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA					

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

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

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2021
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 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
Test software	Tonscend	JS32-RE (Ver.2.5)	C N/A	N/A	N/A

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7. PEAK OUTPUT POWER

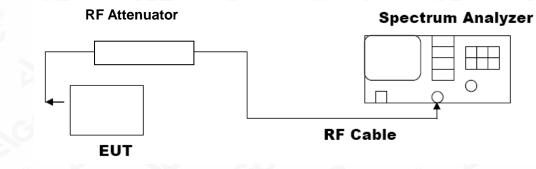
7.1. MEASUREMENT PROCEDURE

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

125 KHz

	PEAK OUTPUT POWER MEA FOR GFSK MOUL		
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	4.460	30	Pass
2.440	4.723	30	Pass
2.480	4.229	30	Pass

	ectrum Analyzer - Sw									
Center F	RF 50 Ω req 2.40200	GHz		VSE:INT	Avg Type	ALIGN AUTO E: Log-Pwr	TRAC	4 Dec 23, 2020 E 1 2 3 4 5 6	F	requency
10 dB/div	Ref 20.00 c	PNO: Fast ↔ IFGain:Low	→ Trig: Free #Atten: 4		Avg Hold:		2.401 7	67 GHz 60 dBm		Auto Tune
10.0			1							Center Freq 02000000 GHz
0.00 -10.0									2.39	Start Freq 99500000 GHz
-20.0									2.40	Stop Freq 04500000 GHz
-40.0									<u>Auto</u>	CF Step 500.000 kHz Man
-60.0										Freq Offset 0 Hz
-70.0									Log	Scale Type
Center 2. #Res BW	402000 GHz 1.5 MHz	#VBW	/ 5.0 MHz			Sweep 1	5 Span .066 ms (.000 MHz 1000 pts)	Log	Lin
MSG						STATUS				

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500 KHz

	PEAK OUTPUT POWER MEA	ASUREMENT RESULT			
FOR GFSK MOUDULATION					
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail		
2.402	4.458	30	Pass		
2.440	4.608	30	Pass		
2.480	4.352	30	Pass		





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1M

	PEAK OUTPUT POWER MEA	SUREMENT RESULT	
	FOR GFSK MOUL	DULATION	
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	4.561	30	Pass
2.440	4.722	30	Pass
2.480	4.359	30	Pass

CH0



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2M

2141	PEAK OUTPUT POWER MEAS	SUREMENT RESULT	
	FOR GFSK MOUD	JLATION	
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	4.456	30	Pass
2.440	4.718	30	Pass
2.480	4.354	30	Pass





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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

125 KHz

LIMITS AND MEASUREMENT RESULT						
	Applicable Limits					
Applicable Limits	Test Data	Criteria				
NO- 100	Low Channel	697.0	PASS			
>500KHZ	Middle Channel	703.7	PASS			
GC C	High Channel	707.9	PASS			

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

04:48:07 PM Dec 23 Radio Std: None ALIGN AUTO Dec 23, 2020 Center Freq: 2.480000000 GHz Trig: Free Run Avg|Hol #Atten: 30 dB Frequency Center Freq 2.480000000 GHz Avg|Hold: 10/10 Radio Device: BTS #IFGain:Low 2.480012 GHz 0.82867 dBm Mkr1 Ref 30.00 dBm 10 dB/div **Center Freq** 2.480000000 GHz Center 2.48 GHz #Res BW 100 kHz Span 3 MHz Sweep 1 ms **CF** Step #VBW 300 kHz 300.000 kH Mar Auto Total Power 7.48 dBm **Occupied Bandwidth** 1.0807 MHz Freq Offset 0 Hz **Transmit Freq Error** 9.571 kHz % of OBW Power 99.00 % x dB Bandwidth 707.9 kHz -6.00 dB x dB

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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500 KHz

LIMITS AND MEASUREMENT RESULT					
Augliechtellingte		Applicable Limits			
Applicable Limits	Test Data	Criteria			
>500KHZ	Low Channel	688.0	PASS		
	Middle Channel	681.8	PASS		
	High Channel	675.6	PASS		

04:56:49 PM Dec 23, 2020 Radio Std: None Center Freq: 2.40200000 GHz Trig: Free Run Avg|Hol #Atten: 30 dB Frequency 2.402000000 GHz Center Freq Avg|Hold:>10/10 #IFGain:Low Radio Device: BTS 2.40176 GHz 4.3801 dBm Mkr1 Ref 30.00 dBm **Center Freq** 2.402000000 GHz Center 2.402 GHz #Res BW 100 kHz Span 3 MHz Sweep 1 ms CF Step 300.000 kHz #VBW 300 kHz Ma Auto **Occupied Bandwidth Total Power** 11.1 dBm 1.0700 MHz Freq Offset 0 Hz 9.225 kHz **Transmit Freq Error** % of OBW Power 99.00 % 688.0 kHz -6.00 dB x dB Bandwidth x dB

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

05:01:37 PM Dec 23 Radio Std: None ALIGN AUTO Dec 23, 2020 Center Freq: 2.480000000 GHz Trig: Free Run Avg|Hole #Atten: 30 dB Frequency Center Freq 2.480000000 GHz Avg|Hold: 10/10 Radio Device: BTS #IFGain:Low 2.479757 GHz 4.2883 dBm Mkr^{*} Ref 30.00 dBm 10 dB/div **Center Freq** 2.480000000 GHz Center 2.48 GHz #Res BW 100 kHz Span 3 MHz Sweep 1 ms **CF** Step #VBW 300 kHz 300.000 kH Mar Auto Total Power 11.0 dBm **Occupied Bandwidth** 1.0703 MHz Freq Offset 0 Hz **Transmit Freq Error** 9.749 kHz % of OBW Power 99.00 % x dB Bandwidth 675.6 kHz -6.00 dB x dB

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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	LIMITS AND MEASUR	REMENT RESULT	
Annliachla Limita		Applicable Limits	
Applicable Limits	Test Data	(kHz)	Criteria
SG C	Low Channel	698.5	PASS
>500KHZ	Middle Channel	702.6	PASS
	High Channel	697.4	PASS

04:19:55 PM Dec 23, 2020 Radio Std: None Center Freq: 2.402000000 GHz Trig: Free Run Avg|Hold: 10/10 #Atten: 30 dB Frequency 2.402000000 GHz Center Free #IFGain:Low Radio Device: BTS 2.401757 GHz 4.3592 dBm Mkr1 Ref 30.00 dBm **Center Freq** 2.402000000 GHz Center 2.402 GHz #Res BW 100 kHz Span 3 MHz Sweep 1 ms CF Step 300.000 kHz #VBW 300 kHz Ma Auto **Occupied Bandwidth Total Power** 11.3 dBm 1.0774 MHz Freq Offset 0 Hz 7.645 kHz **Transmit Freq Error** % of OBW Power 99.00 % 698.5 kHz -6.00 dB x dB Bandwidth x dB

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

04:25:24 PM Dec 23 Radio Std: None ALIGN AUTO Dec 23, 2020 Center Freq: 2.480000000 GHz Trig: Free Run Avg|Hol #Atten: 30 dB Frequency Center Freq 2.480000000 GHz Avg|Hold:>10/10 Radio Device: BTS #IFGain:Low 2.479751 GHz 4.2138 dBm Mkr^{*} Ref 30.00 dBm 10 dB/div **Center Freq** 2.480000000 GHz Center 2.48 GHz #Res BW 100 kHz Span 3 MHz Sweep 1 ms **CF** Step #VBW 300 kHz 300.000 kH Mar Auto Total Power 11.1 dBm **Occupied Bandwidth** 1.0713 MHz Freq Offset 0 Hz **Transmit Freq Error** 8.881 kHz % of OBW Power 99.00 % x dB Bandwidth 697.4 kHz -6.00 dB x dB

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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<u>2M</u>	LIMITS AND MEASUF	REMENT RESULT	
Analiaabla Limita		Applicable Limits	
Applicable Limits	Test Data	(kHz)	Criteria
20- 00	Low Channel	1463	PASS
>500KHZ	Middle Channel	1416	PASS
	High Channel	1422	PASS



TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

04:35:02 PM Dec 23, 2020 Radio Std: None ALIGN AUTO Center Freq: 2.48000000 GHz Trig: Free Run Avg|Hole #Atten: 30 dB Frequency Center Freq 2.480000000 GHz Avg|Hold:>10/10 Radio Device: BTS #IFGain:Low 2.480045 GHz 2.5894 dBm Mkr^{*} Ref 30.00 dBm 10 dB/div **Center Freq** 2.480000000 GHz Center 2.48 GHz #Res BW 100 kHz Span 5 MHz Sweep 1 ms **CF** Step #VBW 300 kHz 500.000 kH Mar Auto Total Power 12.4 dBm **Occupied Bandwidth** 2.0946 MHz Freq Offset 0 Hz **Transmit Freq Error** 6.623 kHz % of OBW Power 99.00 % x dB Bandwidth 1.422 MHz -6.00 dB x dB

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 MEA	SUREMENT 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	

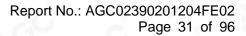
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TEST RESULT FOR ENTIRE FREQUENCY RANGE 125 KHz

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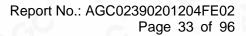
 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com





GFSK MODULATION IN MIDDLE CHANNEL

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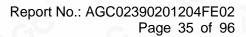
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GFSK MODULATION IN HIGH CHANNEL

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Keysight S	pectrum Analyzer - Swept	: SA					-0	
LXI R		AC CORREC	SENSE:		ALIGN AUTO	04:49:11 PM Dec 23, 2020 TRACE 1 2 3 4 5		iency
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								in type
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#Res BW	/ 100 kHz	#VBV	/ 300 kHz		Sweep	2.152 s (30000 pts)	
MSG					STATU	S		

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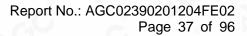
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	um Analyzer - Swept SA					- 6 🐱
X R Center Fre	RF 50 Ω AC q 2.402000000	CORREC O GHZ PNO: Wide ↔ IFGain:Low	J SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:57:17 PM Dec 23, 2020 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N	Frequency
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-10.0						Start Fre 2.400500000 GH
-20.0		x844			han ya	Stop Fre 2.403500000 GH
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-60.0						Freq Offse 0 ⊢
						Scale Typ
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ISG				STATUS		
Keysight Spectr	um Analyzer - Swept SA	000050			1	- 6 -
Keysight Spectr	um Analyzer - Swept SA RF 50 Ω AC q 1.210000000	0 GHz PNO: Fast ↔	_ Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:57:26 PMDec 23, 2020 TRACE 1 2 3 4 5 6 TYPE M	F
Keysight Spectr	RF 50 Ω AC	0 GHz	→ Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:57:26 PM Dec 23, 2020 TRACE 1 2 3 4 5 6	Frequency
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Keysight Spectr R Center Fre 10 dB/div 10.0 0.00	RF 50 Ω AC q 1.210000000	0 GHz PNO: Fast ↔	→ Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:57:26 PMDec 23, 2020 TRACE 1 2 3 4 5 6 TYPE WWWWW DET PNNNN 1 2.355 15 GHz -55.213 dBm	Frequency Auto Tur Center Fre 1.210000000 GH Start Fre 30.000000 MH Stop Fre 2.39000000 GH CF Ste 236.00000 MH
Keysight Spectr X R Center Fre 10 dEJ/div 0 00 10.0	RF 50 Ω AC q 1.210000000	D GHz PNO: Fast IFGain:Low	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:57:26 PMDec 23, 2020 TRACE 1 2 3 4 5 6 TYPE WWWWW DET PNNNN 1 2.355 15 GHz -55.213 dBm	Frequency Auto Tur Center Fre 1.210000000 GF Start Fre 30.000000 MF Stop Fre 2.390000000 GF 236.000000 MF Auto Tur Auto Tur CF Ste 236.000000 MF Auto Tur CF Ste 236.000000 MF Auto Ma Freq Offs
Keysight Spectr R Center Fre 10 dB/div 0 000 -10.0 -20.0 -30.0 -50.0	RF 50 Ω Acc q 1.210000000 Acc Ref 20.00 dBm Acc Acc Acc Acc Acc Acc	D GHz PNO: Fast IFGain:Low	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr	04:57:26 PMDec 23, 2020 TRACE 1 2 3 4 5 6 TYPE WWWWW DET PNNNN 1 2.355 15 GHz -55.213 dBm	Frequency Auto Tur Center Fre 1.210000000 GH Start Fre 30.000000 MH 2.390000000 GH 236.000000 MH Auto Auto Freq Offs: 0 H
Keysight Spectr R Center Fre 10 dB/div I 0 0 10 0 -10 0 -10 0 -20 0 -30 0 -40 0 -50 0 -	RF 50 Ω Acc q 1.210000000 Acc Acc Ref 20.00 dBm Acc Acc I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I	D GHz PNO: Fast IFGain:Low	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MIKr	04:57:26 PMDec 23, 2020 TRACE 1 2 3 4 5 6 TYPE WWWWW DET PNNNN 1 2.355 15 GHz -55.213 dBm	Frequency Auto Turn Center Fre 1.210000000 GH Start Fre 30.000000 MH Stop Fre 2.39000000 GH

500 KHz GFSK MODULATION IN LOW CHANNEL

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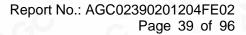








GFSK MODULATION IN MIDDLE CHANNEL



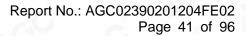








GFSK MODULATION IN HIGH CHANNEL



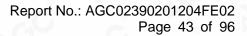








1M GFSK MODULATION IN LOW CHANNEL



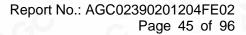








GFSK MODULATION IN MIDDLE CHANNEL



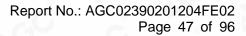




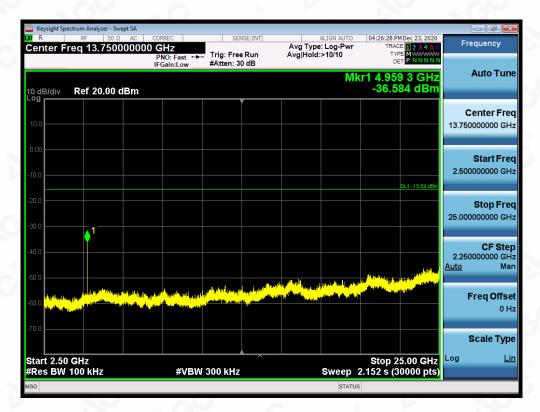




GFSK MODULATION IN HIGH CHANNEL



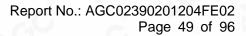








2M GFSK MODULATION IN LOW CHANNEL



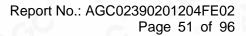








GFSK MODULATION IN MIDDLE CHANNEL



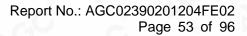




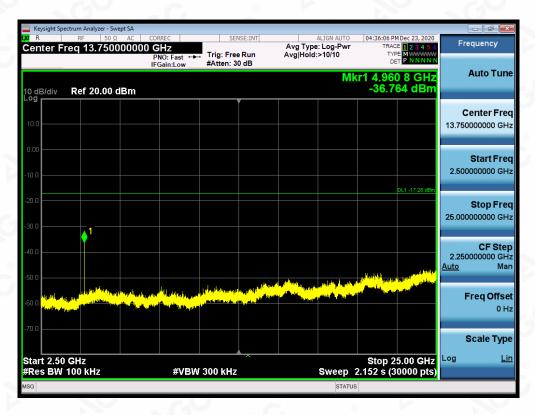




GFSK MODULATION IN HIGH CHANNEL







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

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