

FCC Test Report

Report No.: AGC12060220301FE02

FCC ID : 2AY4C-GM03

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Mini PC

BRAND NAME : GEEKOM

MODEL NAME : GM11i7T, GMXXXXX(X=0-9 or A-Z or a-z)

APPLICANT: Shenzhen Jiteng Network Technology Co., Ltd

DATE OF ISSUE : Apr. 07, 2022

STANDARD(S) : FCC Part 15.247

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd





Page 2 of 62

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr. 07, 2022	Valid	Initial Release

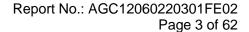




TABLE OF CONTENTS

1. VERIFICATION OF COMPLIANCE	5
2. GENERAL INFORMATION	ε
2.1. PRODUCT DESCRIPTION	6
2.2. TABLE OF CARRIER FREQUENCYS	€
2.3. RELATED SUBMITTAL(S)/GRANT(S)	7
2.4. TEST METHODOLOGY	7
2.5. SPECIAL ACCESSORIES	7
2.6. EQUIPMENT MODIFICATIONS	7
2.7. ANTENNA REQUIREMENT	7
3. MEASUREMENT UNCERTAINTY	
4. DESCRIPTION OF TEST MODES	
5. SYSTEM TEST CONFIGURATION	10
5.1. CONFIGURATION OF TESTED SYSTEM	10
5.2. EQUIPMENT USED IN TESTED SYSTEM	10
5.3. SUMMARY OF TEST RESULTS	10
6. TEST FACILITY	11
7. PEAK OUTPUT POWER	12
7.1. MEASUREMENT PROCEDURE	12
7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	12
7.3. LIMITS AND MEASUREMENT RESULT	13
8. BANDWIDTH	17
8.1. MEASUREMENT PROCEDURE	17
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	17
8.3. LIMITS AND MEASUREMENT RESULTS	17
9. CONDUCTED SPURIOUS EMISSION	24
9.1. MEASUREMENT PROCEDURE	24
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	24
9.3. MEASUREMENT EQUIPMENT USED	
9.4. LIMITS AND MEASUREMENT RESULT	24
10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY	31
10.1. MEASUREMENT PROCEDURE	
10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	



Page 4 of 62

10.3. MEASUREMENT EQUIPMENT USED	
10.4. LIMITS AND MEASUREMENT RESULT	37
11. RADIATED EMISSION	40
11.1. MEASUREMENT PROCEDURE	42
11.2. TEST SETUP	43
11.3. LIMITS AND MEASUREMENT RESULT	44
11.4. TEST RESULT	44
12. LINE CONDUCTED EMISSION TEST	58
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST	58
12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	58
12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	59
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	
12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	59
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	62
APPENDIX B: PHOTOGRAPHS OF EUT	62



Page 5 of 62

1. VERIFICATION OF COMPLIANCE

Applicant	Shenzhen Jiteng Network Technology Co., Ltd
Address	No.1202, Bitian Pavilion, Bizhong Garden, No.10 Bibo First Street, Bibo Community Huangbei Street, Luohu District, Shenzhen City, China
Manufacturer Shenzhen Jiteng Network Technology Co., Ltd	
Address	No.1202, Bitian Pavilion, Bizhong Garden, No.10 Bibo First Street, Bibo Community Huangbei Street, Luohu District, Shenzhen City, China
Product Designation	Mini PC
Brand Name	GEEKOM
Test Model	GM11i7T
Series Model	GMXXXXX(X=0-9 or A-Z or a-z)
Declaration of Difference	Different sales models, different product appearance colors and configurations lead to different model names, which does not affect safety and electromagnetic compatibility
Date of test	Mar. 10, 2022~Apr. 07, 2022
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.

Prepared By	Foler zhan		
	Eder Zhan (Project Engineer)	Apr. 07, 2022	
Reviewed By	Calin.	Liu	
	Calvin Liu (Reviewer)	Apr. 07, 2022	
Approved By	Max Zha	ing	
_	Max Zhang Authorized Officer	Apr. 07, 2022	



Page 6 of 62

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a "Mini PC". 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	Ant 1:-0.585dBm (Max) Ant 2:3.616dBm (Max)	
Bluetooth Version	V5.2	
Modulation	BR □GFSK, EDR □π /4-DQPSK, □8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps	
Number of channels	40 Channel	
Antenna Designation	PIFA Antenna (Comply with requirements of the FCC part 15.203)	
Antenna Gain	2.5dBi	
Hardware Version	NUCTL01_MB_V20	
Software Version	21H2	
Power Supply	DC 19.0V	

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	



Page 7 of 62

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

This submittal(s) (test report) is intended for **FCC ID: 2AY4C-GM03** 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.

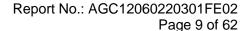


Page 8 of 62

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%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 3.1 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.0 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.8 \text{ dB}$
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$





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.



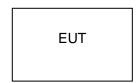


Page 10 of 62

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

Item	Equipment	Model No.	ID or Specification	Remark
1	Mini PC	GM11i7T	2AY4C-GM03	EUT
2	Adapter	HKA09019047-6U	Input: AC 100-240V 50/60Hz, 1.5A Output: DC 19V 4.74A	AE
3	Adapter	A1001-1904740DI	Input: AC 100-240V 50/60Hz, 2.5A Output: DC 19V 4.74A	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



Page 11 of 62

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 CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due	
TEST RECEIVER	R&S	ESPI	101206	May 11, 2021	May 10, 2022	
LISN	R&S	ESH2-Z5	100086	Jun. 09, 2021	Jun. 08, 2022	
Test software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A	

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer Manufacturer	Model	S/N	Cal. Date	Cal. Due
	mana a cara		0 /// 1	Juli Juli	
TEST RECEIVER	R&S	ESCI	10096	Apr. 14, 2021	Apr. 13, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Nov. 17, 2021	Nov. 16, 2022
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	N/A	N/A
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Oct. 31, 2021	Oct. 30, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2021	Jan. 07, 2023
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A



Page 12 of 62

7. PEAK OUTPUT POWER

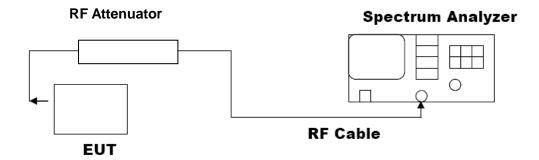
7.1. MEASUREMENT PROCEDURE

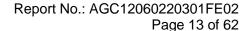
For peak power test:

- 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







7.3. LIMITS AND MEASUREMENT RESULT

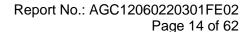
	10				
Test Data of Conducted Output Power-Ant 1					
Test Mode Test Channel Peak Power Limits (MHz) (dBm) Pass or Fa					
	2402	-0.585	≤30	Pass	
GFSK 1M	2440	-1.901	≤30	Pass	
	2480	-2.579	≤30	Pass	

Test Data of Conducted Output Power-Ant 2				
Test Mode	Pass or Fail			
	2402	0.839	≤30	Pass
GFSK 1M	2440	2.287	≤30	Pass
	2480	3.616	≤30	Pass

Test Graphs of Conducted Output Power



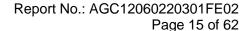
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CF Step 500.000 kHz

Freq Offset

Man

Auto

Span 5.000 MHz Sweep 1.066 ms (1000 pts)



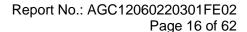


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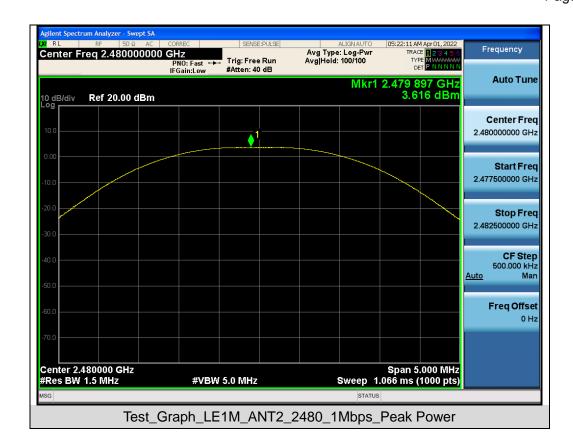
Test_Graph_LE1M_ANT2_2440_1Mbps_Peak Power

#VBW 5.0 MHz

Center 2.440000 GHz #Res BW 1.5 MHz









Page 17 of 62

8. BANDWIDTH

8.1. MEASUREMENT PROCEDURE

6dB bandwidth:

- 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 ≥ 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Occupied bandwidth:

- 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.

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

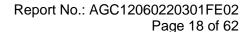
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

8.3. LIMITS AND MEASUREMENT RESULTS

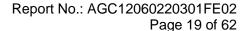
Test Data of Occupied Bandwidth and DTS Bandwidth-Ant 1						
Test Mode Test Channel 99% Occupied -6dB Limits Bandwidth (MHz) Bandwidth (MHz) Pass or Fai						
	2402	1.013	0.687	≥0.5	Pass	
GFSK 1M	2440	1.013	0.684	≥0.5	Pass	
	2480	1.014	0.686	≥0.5	Pass	

Test Data of Occupied Bandwidth and DTS Bandwidth-Ant 2						
Test Mode Test Channel 99% Occupied -6dB Limits (MHz) Pass or Fa						
	2402	1.047	0.677	≥0.5	Pass	
GFSK 1M	2440	1.047	0.684	≥0.5	Pass	
	2480	1.045	0.687	≥0.5	Pass	







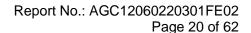








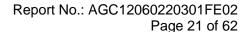




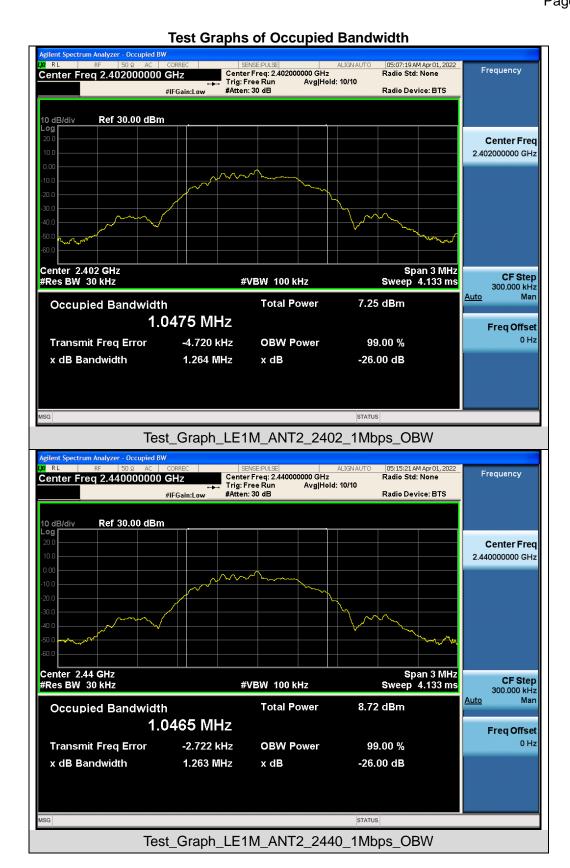


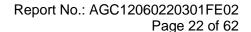




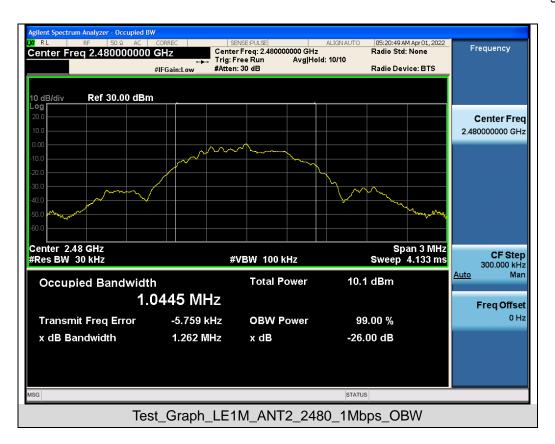




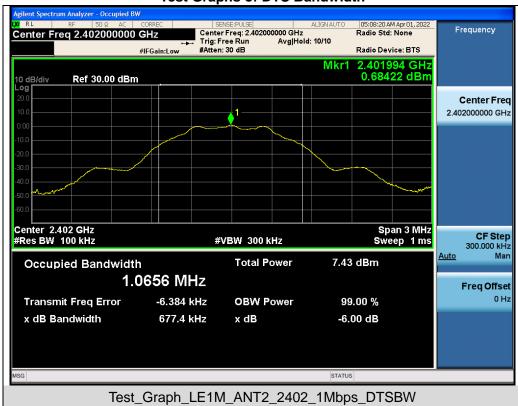




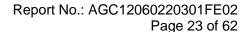




Test Graphs of DTS Bandwidth

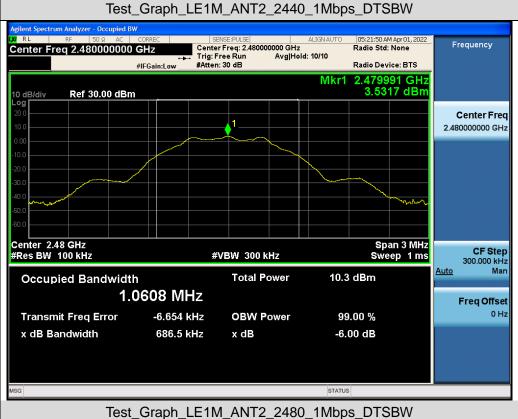


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Page 24 of 62

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)

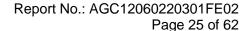
The same as described in section 7.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

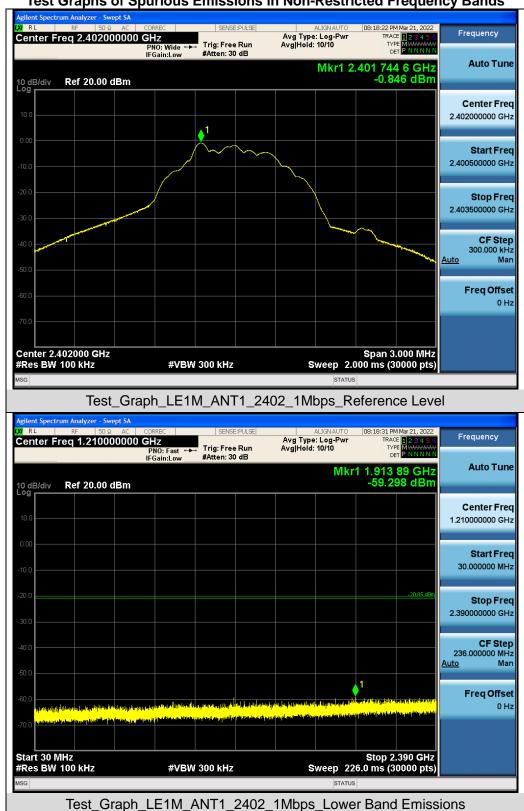
9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT					
Annii abla I inii	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			



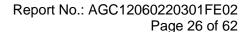


Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands

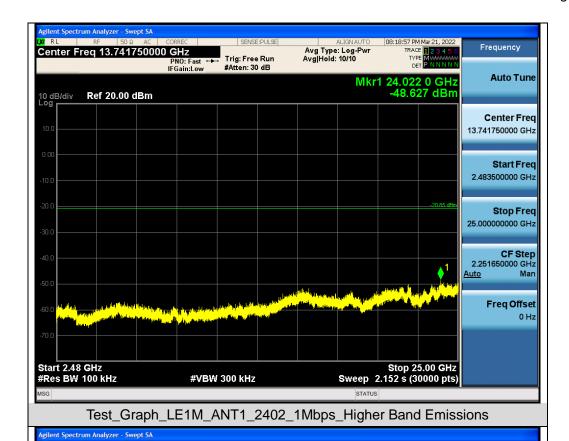


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Web: http://www.agccert.com/







Frequency Avg Type: Log-Pwr Avg|Hold: 10/10 Center Freq 2.440000000 GHz Trig: Free Run #Atten: 30 dB IFGain:Low **Auto Tune** Mkr1 2.439 742 7 GHz -2.117 dBm 10 dB/div Ref 20.00 dBm Center Freq 2.440000000 GHz Start Freq 2.438500000 GHz Stop Freq 2.441500000 GHz CF Step 300.000 kHz Man Auto Frea Offset 0 Hz

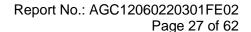
Span 3.000 MHz Sweep 2.000 ms (30000 pts)

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Test_Graph_LE1M_ANT1_2440_1Mbps_Reference Level

#VBW 300 kHz

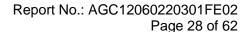
Center 2.440000 GHz #Res BW 100 kHz















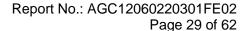
gilent Spectrum Analyzer - Swept SA Frequency Avg Type: Log-Pwi Avg|Hold: 10/10 Center Freq 1.215000000 GHz Trig: Free Run #Atten: 30 dB IFGain:Low **Auto Tune** Mkr1 2.187 80 GHz -57.330 dBm 10 dB/div Ref 20.00 dBm Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz Man <u>Auto</u> Frea Offset 0 Hz Start 30 MHz #Res BW 100 kHz Stop 2.400 GHz Sweep 228.0 ms (30000 pts)

Test_Graph_LE1M_ANT1_2480_1Mbps_Lower Band Emissions

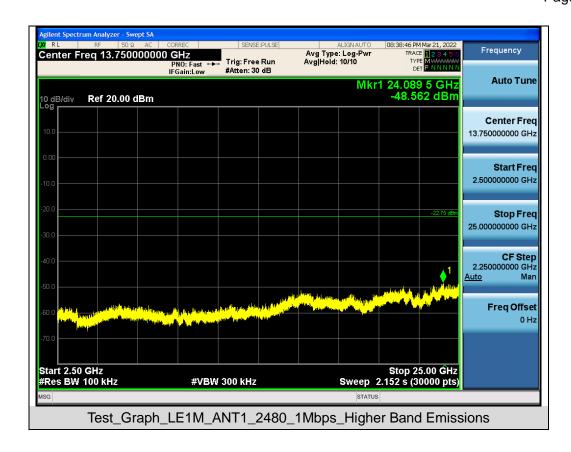
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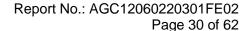
#VBW 300 kHz

Web: http://www.agccert.com/



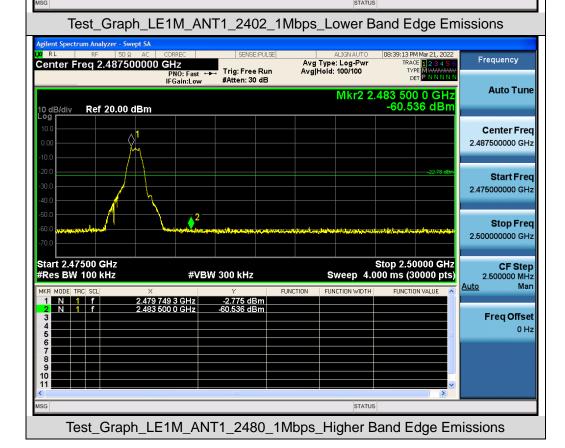




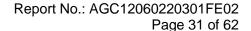




Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands Frequency Center Freq 2.398500000 GHz Avg Type: Log-Pwr Avg|Hold: 100/100 Trig: Free Run #Atten: 30 dB **Auto Tune** Mkr2 2.400 000 0 GHz -62.495 dBm Ref 20.00 dBm 2.398500000 GHz Start Freq 2.390000000 GHz Stop Freq 2.407000000 GHz Start 2.390000 GHz #Res BW 100 kHz Stop 2.407000 GHz Sweep 2.000 ms (30000 pts) CF Step 1.700000 MHz #VBW 300 kHz <u>Auto</u> Man Freq Offset 0 Hz



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/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 authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.





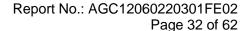
Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands



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Test_Graph_LE1M_ANT2_2402_1Mbps_Lower Band Emissions

Web: http://www.agccert.com/

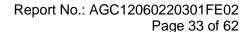




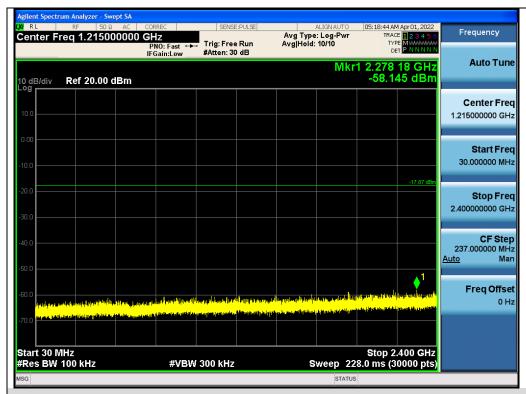


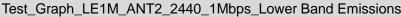
Test_Graph_LE1M_ANT2_2402_1Mbps_Higher Band Emissions



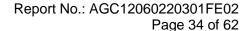








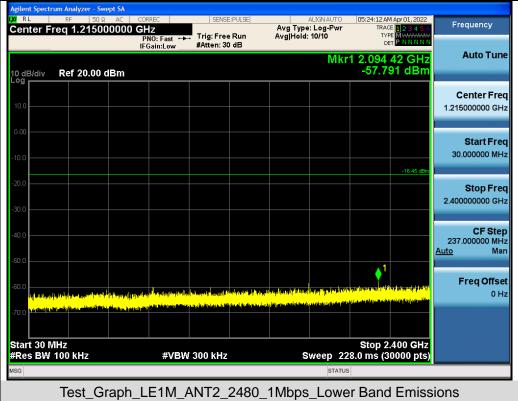


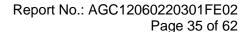




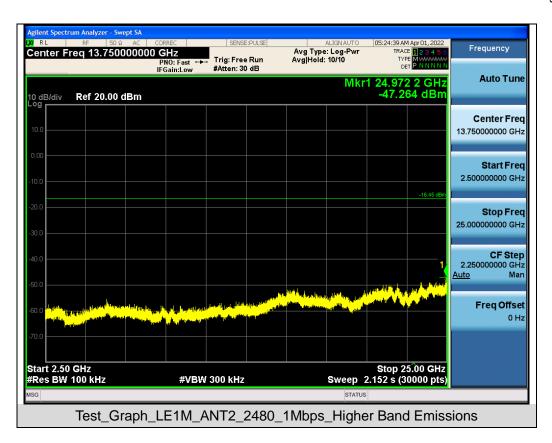




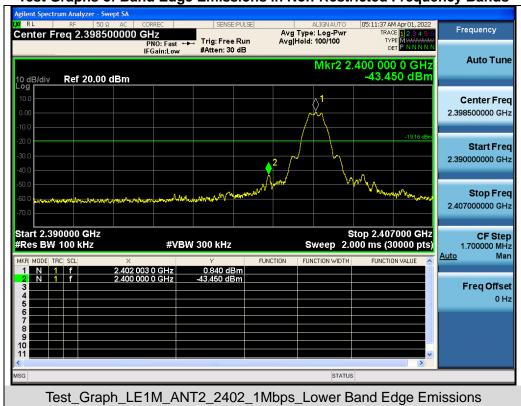




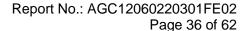




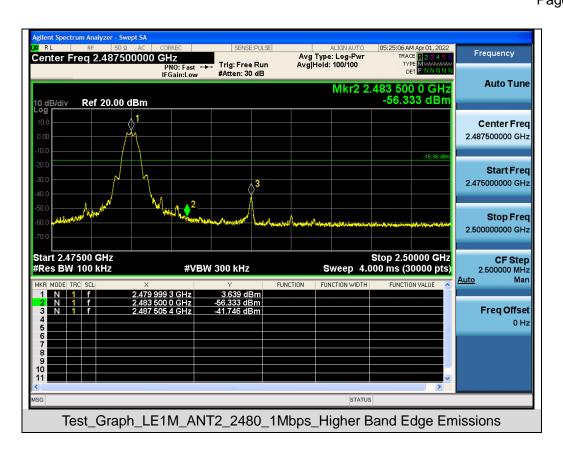
Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



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Page 37 of 62

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 8.4 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

Test Data of Conducted Output Power Spectral Density-Ant 1					
Test Mode Test Channel Power density Limit (MHz) (dBm/3kHz) Pass or Fail					
	2402	-14.364	≤8	Pass	
GFSK 1M	2440	-15.691	≤8	Pass	
	2480	-16.332	≤8	Pass	

Test Data of Conducted Output Power Spectral Density-Ant 2						
Test Mode Test Channel Power density Limit (MHz) (dBm/3kHz) Pass or Fail						
	2402	-14.138	≪8	Pass		
GFSK 1M	2440	-12.805	≤8	Pass		
	2480	-11.852	≤8	Pass		

