

FCC Test Report

Report No.: AGC01040210607FE02

FCC ID	:	2AF9HBC107
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Bike Computer
BRAND NAME		N/A
MODEL NAME	36	BC107, BC100, BC101, BC102, BC103, BC104, BC105, BC106, BC108, BC109, BC110, BC120, BC130, BC140, BC150, BC160, BC170, BC180, BC190, BC111
APPLICANT	0:	Shenzhen CooSpo Tech Co., Ltd.
DATE OF ISSUE	:	Jun. 23, 2021
STANDARD(S)	:	FCC Part 15.247
REPORT VERSION		V1.0

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Report No.: AGC01040210607FE02 Page 2 of 71

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Jun. 23, 2021	Valid	Initial Release

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Report No.: AGC01040210607FE02 Page 3 of 71

TABLE OF CONTENTS

1. VERIFICATION OF COMPLIANCE	5
2. GENERAL INFORMATION	6
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	
2.7. ANTENNA REQUIREMENT	
3. MEASUREMENT UNCERTAINTY	8
4. DESCRIPTION OF TEST MODES	9
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)	
8.3. LIMITS AND MEASUREMENT RESULTS	
9. CONDUCTED SPURIOUS EMISSION	
9.1. MEASUREMENT PROCEDURE	24
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	24
9.3. MEASUREMENT EQUIPMENT USED	24
9.4. LIMITS AND MEASUREMENT RESULT	24
10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY	



Report No.: AGC01040210607FE02 Page 4 of 71

10.1. MEASUREMENT PROCEDURE	
10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
10.3. MEASUREMENT EQUIPMENT USED	
10.4. LIMITS AND MEASUREMENT RESULT	
11. RADIATED EMISSION	
11.1. MEASUREMENT PROCEDURE	
11.2. TEST SETUP	
11.3. LIMITS AND MEASUREMENT RESULT.	
11.4. TEST RESULT	
12. LINE CONDUCTED EMISSION TEST	
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST	
12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	
12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	
12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	
APPENDIX B: PHOTOGRAPHS OF EUT	

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1. VERIFICATION OF COMPLIANCE

Applicant	Shenzhen CooSpo Tech Co., Ltd.		
Address	11F, Lingyun Building, Honglang North 2nd Road, Bao'an District, Shenzhen 518000, Guangdong, China		
Manufacturer	Shenzhen CooSpo Tech Co., Ltd.		
Address	11F, Lingyun Building, Honglang North 2nd Road, Bao'an District, Shenzhen 518000, Guangdong, China		
Factory	Shenzhen CooSpo Tech Co., Ltd.		
Address	11F, Lingyun Building, Honglang North 2nd Road, Bao'an District, Shenzhen 518000, Guangdong, China		
Product Designation	Bike Computer		
Brand Name	N/A		
Test Model	BC107		
Series Model	BC100, BC101, BC102, BC103, BC104, BC105, BC106, BC108, BC109, BC110, BC120, BC130, BC140, BC150, BC160, BC170, BC180, BC190, BC111		
Declaration of Difference	All the same except for the model, item No., or color.		
Date of test	Jun. 15, 2021 to Jun. 23, 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.

Prepared By

Eddy Lin

Eddy Liu Project Engineer

Max Zhan

Jun. 23, 2021

Reviewed By

Max Zhang

Reviewer

Jun. 23, 2021

Approved By

Forrest Lei Authorized Officer

Jun. 23, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a "Bike Computer". 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	0.143dBm (Max) For BLE 1M 0.135dBm (Max) For BLE 2M	
Bluetooth Version	V5.0	
Modulation	BR □GFSK, EDR □π /4-DQPSK, □8DPSK BLE ⊠GFSK 1Mbps ⊠GFSK 2Mbps	
Number of channels	40 Channels	
Antenna Designation	PCB Antenna (Comply with requirements of the FCC part 15.203)	
Antenna Gain	-1.19dBi	
Hardware Version	V1.2	
Software Version	V1.0.1	
Power Supply	DC 3.7V by battery or DC 5V by adapter	

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	0	2402 MHz
	1	2404 MHz
2400~2483.5MHz		
~ C ~ C	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: 2AF9HBC107 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%.

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	$U_{c} = \pm 2 \%$	

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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.

Sonwa	are Setting
Direct Test Mode Tool	
Common Configuration	- Transmit Radio Control Tx Power 0 dBm
Port Number Refresh	Payload Model PRBS9 Payload Length 0 Bytes
O Transmitter O Receiver	Payload Length 0 . Bytes
Single channel Multiple channels High channel 39	Run Time 1000 * ms
Mid channel 19 🛟	PHY LE 1Mbps
Low channel 0	Receiver Radio Control
Sweep Time 1000 🗘 msec	Facket Error Ra
Log	i â
Nordic Semiconductor (v0.8.0)	Start Close

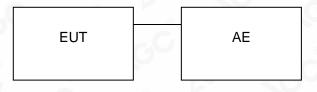
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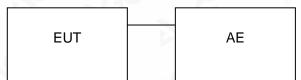
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:



5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Bike Computer	BC107	2AF9HBC107	EUT
2	Adapter	ZL-PCB0100020502000	DC 5V	AE
3	Control Box	N/A	USB-TTL	AE

Note: The adapter is AGC laboratory, the manufacturer does not provide it.

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 (Attestation of Global Compliance (Shenzhen) Co., Ltd					
Location		-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Juna Street, Bao'an District, Shenzhen, Guangdong, China					
Designation Number	CN1259	N1259					
FCC Test Firm Registration Number	975832	75832					
A2LA Cert. No.	5054.02	5054.02					
Description	Attestation of 0	Global Compliance (S	henzhen) Co.,	Ltd is accredited I	by A2LA		
TEST EQUIPMENT OF	CONDUCTED E	MISSION TEST			C.		
Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due		
TEST RECEIVER	R&S	ESPI	101206	May 15, 2021	May 14, 2022		
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, 2021	May 14, 2022
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	Apr. 23, 2021	Apr. 22, 2022
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2021	Jan. 07, 2023
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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7. PEAK OUTPUT POWER

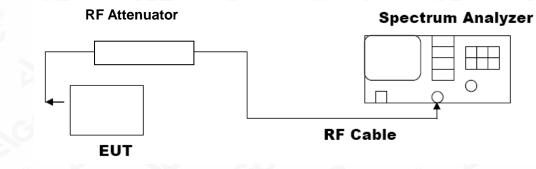
7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. 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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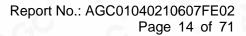
7.3. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power					
Test Mode	Test Channel (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail	
	2402	0.143	≤30	Pass	
GFSK 1M	2440	-0.217	≤30	Pass	
6	2480	-0.235	≤30	Pass	
6	2402	0.135	≤30	Pass	
GFSK 2M	2440	-0.214	≤30	Pass	
	2480	-0.247	≤30	Pass	

Test Graphs of Conducted Output Power



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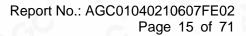








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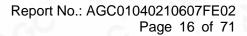




10:11:09 AM Jun 17, 2021 Frequency Avg Type: Log-Pwr Avg|Hold: 100/100 Center Freq 2.440000000 GHz Trig: Free Run #Atten: 40 dB PNO: Fast IFGain:Lov Auto Tune Mkr1 2.439 477 GHz -0.214 dBm 0 dB/div Ref 20.00 dBm **Center Freq** 2.440000000 GHz Start Freq 2.437500000 GHz Stop Freq 2.442500000 GHz CF Step 500.000 kHz <u>Auto</u> Mar **Freq Offset** 0 Hz Scale Type Center 2.440000 GHz #Res BW 1.5 MHz Span 5.000 MHz Sweep 1.066 ms (1000 pts) Lin #VBW 5.0 MHz Test_Graph_LE2M_ANT1_2440_2Mbps_Peak Power

Test_Graph_LE2M_ANT1_2402_2Mbps_Peak Power

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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 \ge 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.
- 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
 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.

Test Data of Occupied Bandwidth and DTS Bandwidth						
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail	
	2402	1.036	0.688	≥0.5	Pass	
GFSK 1M	2440	1.039	0.690	≥0.5	Pass	
	2480	1.042	0.691	≥0.5	Pass	
20	2402	2.055	1.135	≥0.5	Pass	
GFSK 2M	2440	2.056	1.152	≥0.5	Pass	
	2480	2.067	1.148	≥0.5	Pass	

8.3. LIMITS AND MEASUREMENT RESULTS

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Test Graphs of Occupied Bandwidth

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Report No.: AGC01040210607FE02 Page 19 of 71



Test_Graph_LE1M_ANT1_2480_1Mbps_OBW



Test_Graph_LE2M_ANT1_2402_2Mbps_OBW

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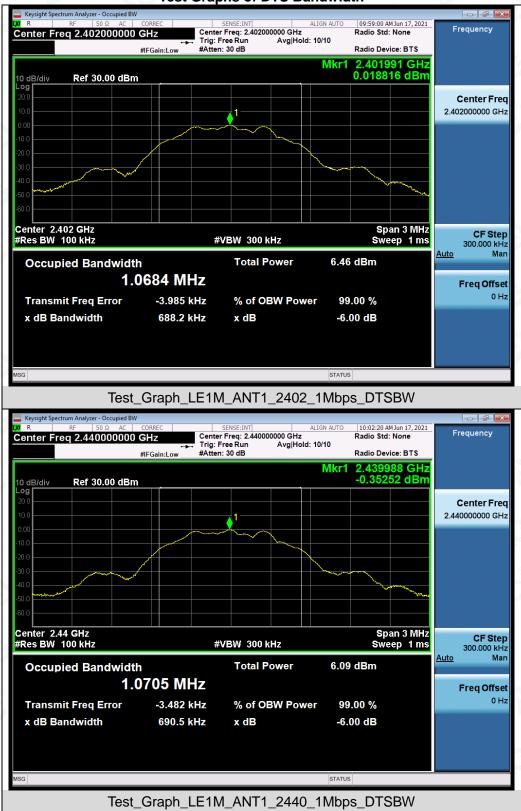
Test_Graph_LE2M_ANT1_2440_2Mbps_OBW



Test_Graph_LE2M_ANT1_2480_2Mbps_OBW

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Test Graphs of DTS Bandwidth

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Report No.: AGC01040210607FE02 Page 22 of 71



ALIGN AUTO 10:07:39 AM Jun 17, 2021 Center Freq: 2.402000000 GHz Trig: Free Run Avg|Hold #Atten: 30 dB Frequency Radio Std: None Center Freq 2.402000000 GHz Avg|Hold: 10/10 #IFGain:Low Radio Device: BTS 1 2.401995 GHz -0.0057003 dBm Mkr1 Ref 30.00 dBm **Center Freq** 2.402000000 GHz Span 5 MHz Sweep 1 ms Center 2.402 GHz #Res BW 100 kHz CF Step 500.000 kHz #VBW 300 kHz Mar Auto **Total Power** 7.05 dBm **Occupied Bandwidth** 2.0841 MHz **Freq Offset** 0 Hz 3.246 kHz % of OBW Power 99.00 % **Transmit Freq Error** x dB Bandwidth 1.135 MHz x dB -6.00 dB STATUS

Test_Graph_LE1M_ANT1_2480_1Mbps_DTSBW

Test_Graph_LE2M_ANT1_2402_2Mbps_DTSBW

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Report No.: AGC01040210607FE02 Page 23 of 71



Test Graph LE2M ANT1 2440 2Mbps DTSBW ALIGN AUTO 10:12:28 AM Jun 17, 2021 Center Freq: 2.48000000 GHz Trig: Free Run Avg|Hol #Atten: 30 dB Frequency Radio Std: None Center Freq 2.480000000 GHz Avg|Hold: 10/10 #IFGain:Low Radio Device: BTS 2.479995 GHz -0.36957 dBm Mkr1 Ref 30.00 dBm **Center Freq** 2.480000000 GHz Span 5 MHz Sweep 1 ms Center 2.48 GHz #Res BW 100 kHz CF Step 500.000 kHz #VBW 300 kHz Mar Auto **Total Power** 6.71 dBm **Occupied Bandwidth** 2.0928 MHz **Freq Offset** 0 Hz 4.223 kHz % of OBW Power 99.00 % **Transmit Freq Error** x dB Bandwidth 1.148 MHz x dB -6.00 dB STATUS

Test_Graph_LE2M_ANT1_2480_2Mbps_DTSBW

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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

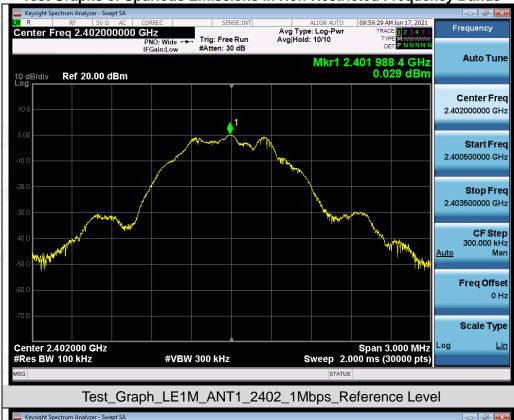
The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

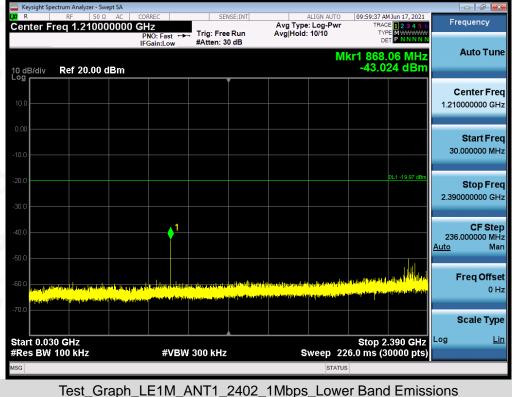
LIMITS AND MEASUREMENT RESULT					
Appliechle Limite	Measurement Result				
Applicable Limits	Test Data	Criteria			
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator 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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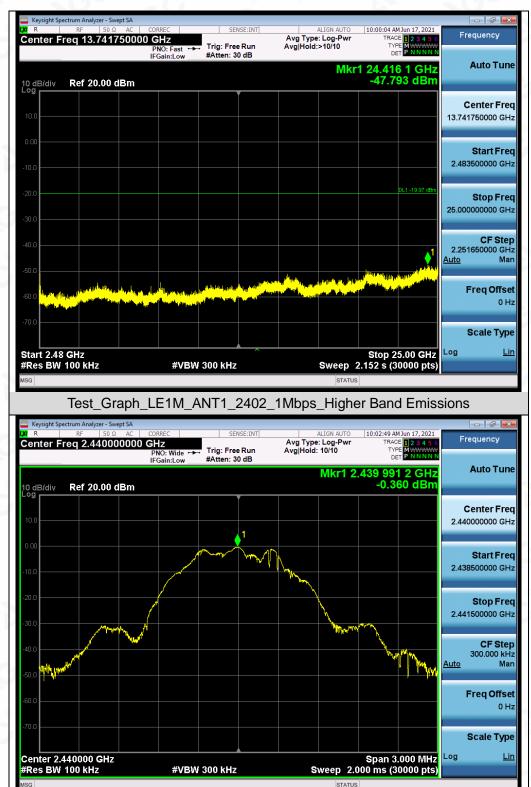
Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands



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Report No.: AGC01040210607FE02 Page 26 of 71



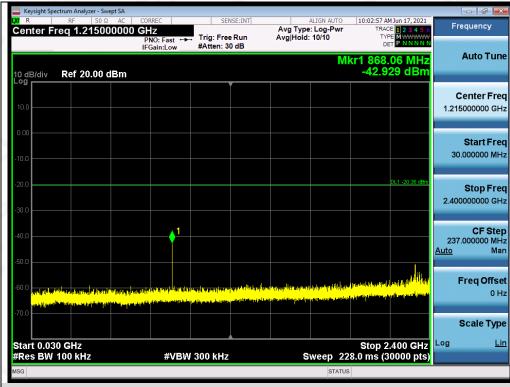


Test_Graph_LE1M_ANT1_2440_1Mbps_Reference Level

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Report No.: AGC01040210607FE02 Page 27 of 71

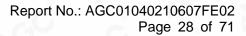




Test_Graph_LE1M_ANT1_2440_1Mbps_Lower Band Emissions

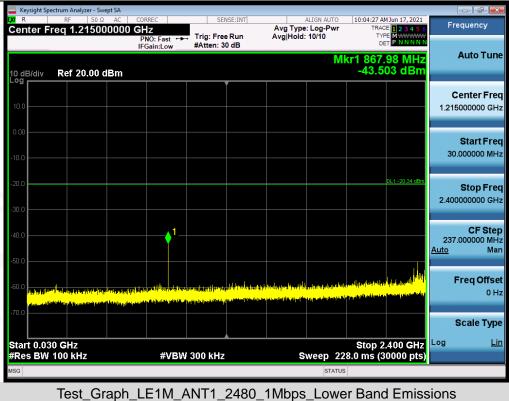


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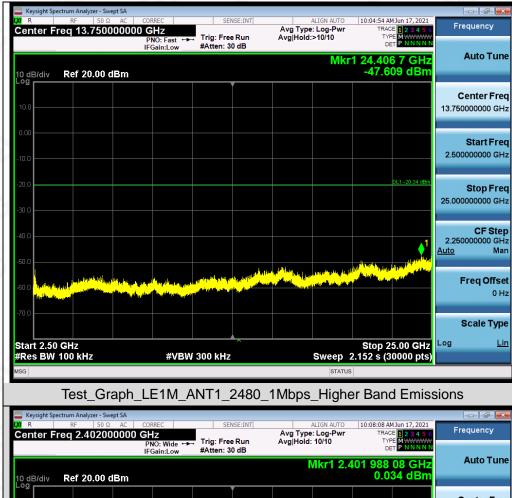




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Report No.: AGC01040210607FE02 Page 29 of 71



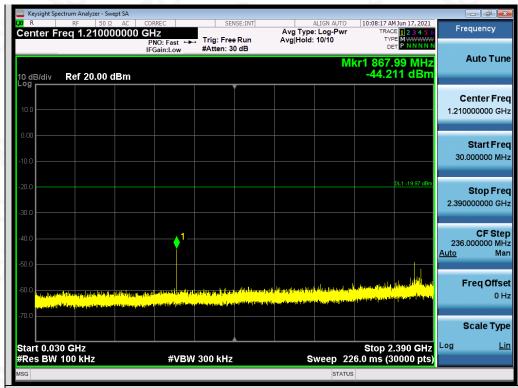


Center Freq 2.402000000 GHz 1 Start Freq 2.399500000 GHz Stop Freq 2.404500000 GHz CF Step 500.000 kHz Mar Auto **Freq Offset** 0 Hz Scale Type Center 2.402000 GHz #Res BW 100 kHz Span 5.000 MHz Sweep 2.000 ms (30000 pts) Lin #VBW 300 kHz Test_Graph_LE2M_ANT1_2402_2Mbps_Reference Level

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Report No.: AGC01040210607FE02 Page 30 of 71





10:08:43 AM Jun 17, 2021 Avg Type: Log-Pw Avg|Hold:>10/10 Frequency Center Freq 13.741750000 GHz Trig: Free Run #Atten: 30 dB PNO: Fast IFGain:Lo Auto Tune Mkr1 24.456 6 GHz -46.662 dBm 10 dB/div Ref 20.00 dBm **Center Freq** 13.741750000 GHz Start Freq 2.483500000 GHz L1 -19.97 dB Stop Freq 25.000000000 GHz CF Step 2.251650000 GHz Auto Mar **Freq Offset** 0 Hz Scale Type Start 2.48 GHz #Res BW 100 kHz Stop 25.00 GHz Sweep 2.152 s (30000 pts) Log Lin #VBW 300 kHz Test_Graph_LE2M_ANT1_2402_2Mbps_Higher Band Emissions

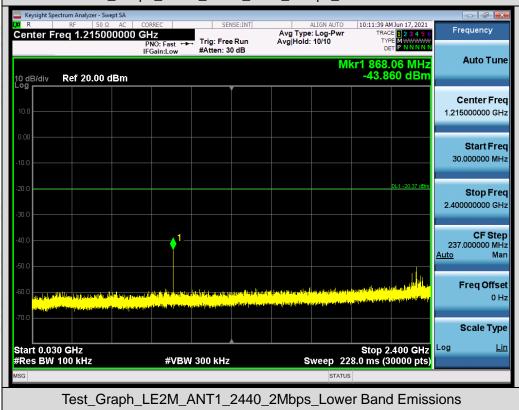
Test_Graph_LE2M_ANT1_2402_2Mbps_Lower Band Emissions

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Report No.: AGC01040210607FE02 Page 31 of 71

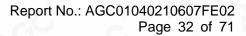






Test_Graph_LE2M_ANT1_2440_2Mbps_Reference Level

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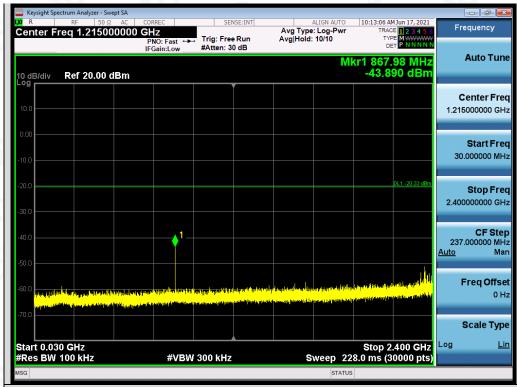


Test_Graph_LE2M_ANT1_2440_2Mbps_Higher Band Emissions

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Report No.: AGC01040210607FE02 Page 33 of 71



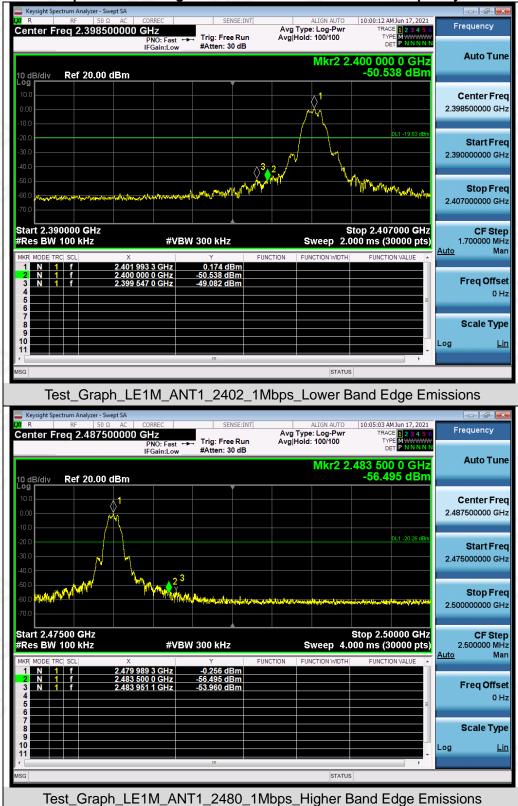


10:13:33 AM Jun 17, 2021 Avg Type: Log-Pw Avg|Hold:>10/10 Frequency Center Freq 13.750000000 GHz Trig: Free Run #Atten: 30 dB PNO: Fast IFGain:Lo Auto Tune Mkr1 24.960 2 GHz -47.508 dBm 10 dB/div Ref 20.00 dBm **Center Freq** 13.750000000 GHz Start Freq 2.50000000 GHz Stop Freq 25.000000000 GHz CF Step 2.25000000 GHz Mar Auto **Freq Offset** 0 Hz Scale Type Start 2.50 GHz #Res BW 100 kHz Stop 25.00 GHz Sweep 2.152 s (30000 pts) Log Lin #VBW 300 kHz Test_Graph_LE2M_ANT1_2480_2Mbps_Higher Band Emissions

Test_Graph_LE2M_ANT1_2480_2Mbps_Lower Band Emissions

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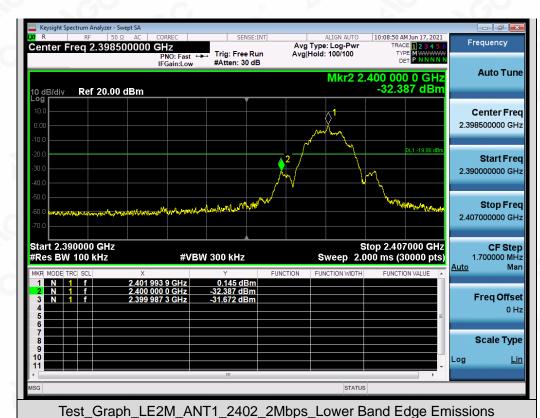


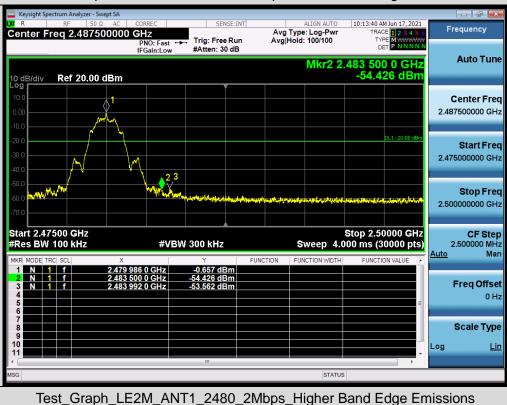
Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands

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Report No.: AGC01040210607FE02 Page 35 of 71







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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 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

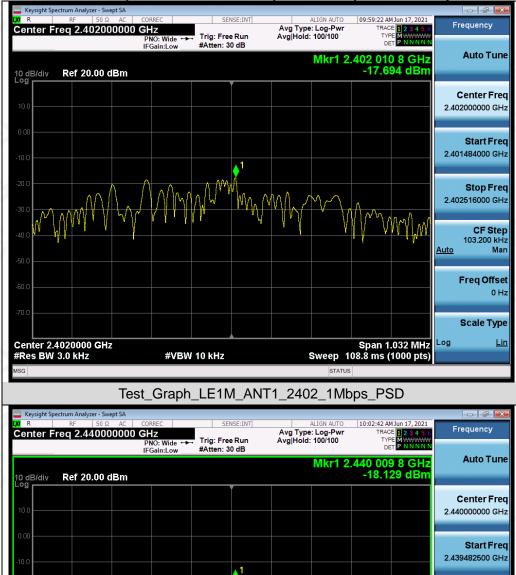
Refer to Section 6.

10.4. LIMITS AND MEASUREMENT RESULT

	Test Data of Co	nducted Output Power Sp	ectral Density	
Test Mode	Test Channel (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
N .C	2402	-17.694	≪8	Pass
GFSK 1M	2440	-18.129	≤8	Pass
	2480	-17.802	≪8	Pass
	2402	-17.521	≤8	Pass
GFSK 2M	2440	-17.934	≤8	Pass
	2480	-18.107	≪8	Pass

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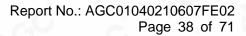




Test Graphs of Conducted Output Power Spectral Density

Stop Freq MM MM 2.440517500 GHz **CF** Step 103,500 kHz Auto Man Freq Offset 0 Hz Scale Type Center 2.4400000 GHz #Res BW 3.0 kHz Span 1.035 MHz Sweep 109.2 ms (1000 pts) Log Lin #VBW 10 kHz Test_Graph_LE1M_ANT1_2440_1Mbps_PSD

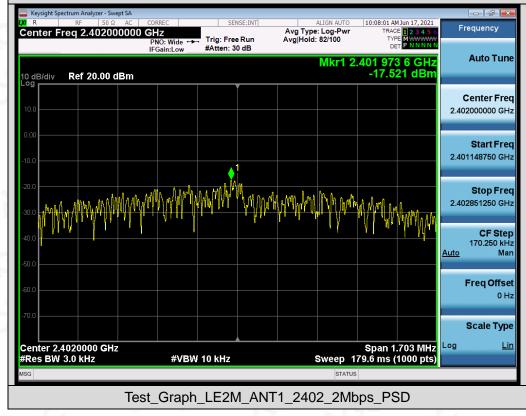
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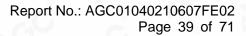


Test_Graph_LE1M_ANT1_2480_1Mbps_PSD

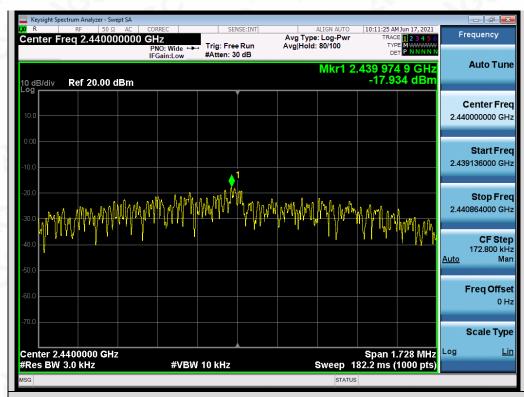


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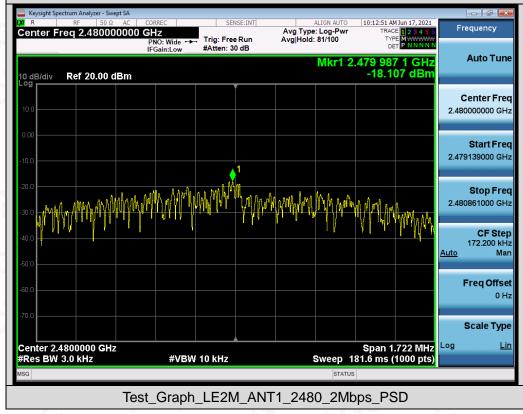
Attestation of Global Compliance(Shenzhen)Co., Ltd Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/







Test_Graph_LE2M_ANT1_2440_2Mbps_PSD



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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. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

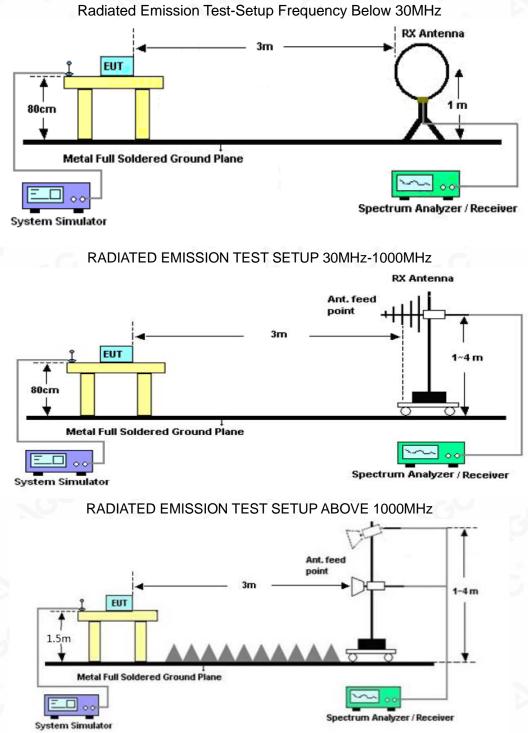
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated 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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Report No.: AGC01040210607FE02 Page 41 of 71

11.2. TEST SETUP



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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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72.0 dBu¥/m

Report No.: AGC01040210607FE02 Page 43 of 71

Limit: Margin:

EUT	Bike Computer	Model Name	BC107	
Temperature	25° C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	Mode 1	Antenna	Horizontal	

Radiated emission from 30MHz to 1000MHz

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30.000	127.00 Mk.	224.00 Freq.	321.00 418 Reading Level	.00 515.00 Correct Factor	612.00 Measure- ment	709.00 806 - Limit	.00 Over	1000.00
NU.	IVIN.	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detecto
1	5	4.2500	9.88	14.64	24.52	40.00	-15.48	peak
2	11	9.2400	5.95	17.71	23.66	43.50	-19.84	peak
3	16	8.7100	7.97	13.99	21.96	43.50	-21.54	peak
4	60	5.2100	5.86	27.01	32.87	46.00	-13.13	peak
5	* 82	9.2800	5.74	30.79	36.53	46.00	-9.47	peak
6	96	2.1700	6.70	32.23	38.93	54.00	-15.07	peak

RESULT: PASS

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Report No.: AGC01040210607FE02 Page 44 of 71

EUT	Bike Computer	Model Name	BC107
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical
72.0 dBu∀/m			

Limit Margin 32 -how with white whether the minimant -8 30.000 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00 1000.00 MHz Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m dBuV/m dB Detector 1 54.2500 9.28 14.64 23.92 40.00 -16.08 peak 2 114.3900 10.45 17.42 27.87 43.50 -15.63 peak 3 164.8300 12.08 18.69 30.77 43.50 -12.73 peak 4 602.3000 5.70 26.91 32.61 46.00 -13.39 peak 5 784.6599 29.60 * 6.91 36.51 46.00 -9.49peak 6 981.5700 31.66 5.90 37.56 54.00 -16.44 peak

RESULT: PASS Note:

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

2. All test modes had been tested. The mode 1 of 1MHz is the worst case and recorded in the report.

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Report No.: AGC01040210607FE02 Page 45 of 71

Radiated emission above 1GHz

EUT	Bike Computer	Model Name	BC107
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	46.16	0.08	46.24	74	-27.76	peak
4804.000	37.54	0.08	37.62	54	-16.38	AVG
7206.000	41.56	2.21	43.77	74	-30.23	peak
7206.000	30.98	2.21	33.19	54	-20.81	AVG
		8			<u> </u>	®
			©			

EUT	Bike Computer	Model Name	BC107
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	46.29	0.08	46.37	74	-27.63	peak
4804.000	35.17	0.08	35.25	54 💿	-18.75	AVG
7206.000	42.05	2.21	44.26	74	-29.74	peak
7206.000	31.67	2.21	33.88	54	-20.12	AVG
			0	0		3

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

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