

FCC Test Report

Report No.: AGC12845210804FE02

FCC ID : 2A3NS-SSHL175

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: Intelligent Heat Lamp

BRAND NAME : Sveaverken

MODEL NAME : SSHL175s, SSHL175

APPLICANT : Sveaverken Svea Agri AB

DATE OF ISSUE : Oct. 29, 2021

STANDARD(S) : FCC Part 15.247

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	9 /	Oct. 29, 2021	Valid	Initial Release

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1. VERIFICATION OF COMPLIANCE

Applicant	Sveaverken Svea Agri AB	
Address	Hogmossevagen 11, SE-641 39 Katrineholm, Sweden	
Manufacturer	Sveaverken Svea Agri AB	
Address	Hogmossevagen 11, SE-641 39 Katrineholm, Sweden	
Factory	Sveaverken Intelligent Technology (Shenzhen) Co., Ltd.	
Address	5 / F, Building 13, Nangang Second Industrial Zone, 1026 Songbai Road, Nanshan District, Shenzhen	
Product Designation	Intelligent Heat Lamp	
Brand Name	Sveaverken	
Test Model	SSHL175s	
Series Model	SSHL175	
Declaration of Difference	All the same except for the model name	
Date of test	Aug. 27, 2021 to Oct. 20, 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	Thea Yuang	
	Thea Huang (Project Engineer)	Oct. 29, 2021
Reviewed By	Calvin Lin	Pac Val
	Calvin Liu (Reviewer)	Oct. 29, 2021
Approved By	Max Zhang	
3 ^C 20	Max Zhang (Authorized Officer)	Oct. 29, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a "Intelligent Heat Lamp". 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	2.402GHz to 2.480GHz
RF Output Power	GFSK 1Mbps: 6.406dBm (Max) GFSK 2Mbps: 6.491dBm (Max)
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	1.5dBi
Hardware Version	V1.0
Software Version	V1.1.0
Power Supply	AC 120V~240V

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	0	2402 MHz
100 CC	1	2404 MHz
2400~2483.5MHz		
. GC C	38	2478 MHz
D. CO	39	2480 MHz

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

This submittal(s) (test report) is intended for **FCC ID: 2A3NS-SSHL175** 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 ±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(1M)	
2	Middle channel TX(1M)	
3	High channel TX(1M)	
4	Low channel TX(2M)	
5	Middle channel TX(2M)	
6	High channel TX(2M)	

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 EMI_TEST_v1.8 8251 8253 8258 8359 E -SWIRE SWB SP Setting: PA PA0 PAO Set_Channel Log_Window: 10.5dbm Set_Power @ Send Start CarrierData Command BLE 1M Set_RF_Mode TC32 EVK: Swire OK Total Time: 0 ms Carrier: Total Time: 0 ms Carrier @ Send Hopping Channel Setting TC32 EVK: Swire OK @ Send Start CarrierData Command RxTest TC32 EVK: Swire OK Total Time: 0 ms Total Time: 0 ms Total Time: 0 ms @Start Test Command TC32 EVK: Swire OK Total Time: 0 ms Total Time: 0 ms

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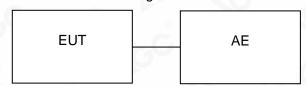


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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:

EUT		AE
	1	

5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Intelligent Heat Lamp	SSHL175s	2A3NS-SSHL175	EUT
2	Control Box	USB-TTL	N/A	AE
3	PC	HW-059200CHQ	N/A	AE
<u>4</u>	PC Adapter	N/A	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	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 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	FARA	EZ-EMC(Ver. AGC-CON03A1)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

TEST EQUITMENT OF RADIATED EMISSION TEST					
Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Apr. 14, 2021	Apr. 13, 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	BBHA9170	768	Oct.09, 2019	Oct. 08, 2021
Horn Antenna	SCHWARZBECK	BBHA9170	768	Oct. 07, 2021	Oct. 08, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Preamplifier Assembly	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
WIDEBAND REQUENCY ANTENNA	SCHWARZBECK	VULB9168	VULB9168-49 4	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

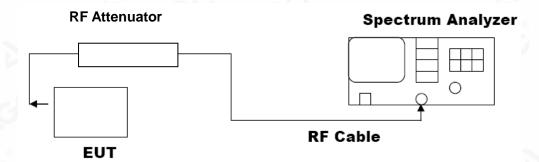
7.1. MEASUREMENT PROCEDURE

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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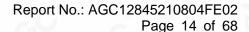
7.3. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power					
Test Mode	Test Channel (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail	
8	2402	5.096	≤30	Pass	
GFSK 1M	2440	5.883	≤30	Pass	
	2480	6.406	≤30	Pass	
8	2402	5.024	≤30	Pass	
GFSK 2M	2440	5.975	≤30	Pass	
	2480	6.491	≤30	Pass	

Test Graphs of Conducted Output Power

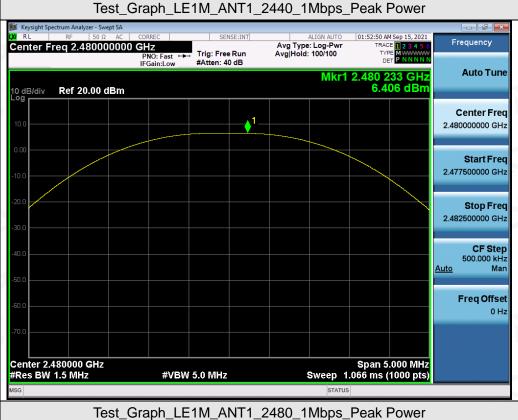


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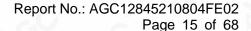








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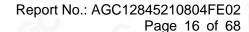


Test Graphs of Conducted Output Power

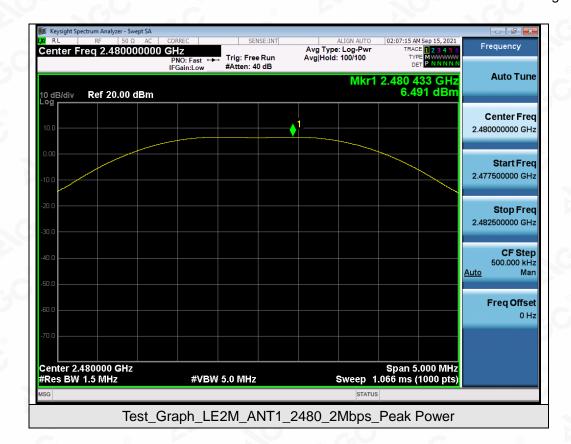




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8. BANDWIDTH

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 ≥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.

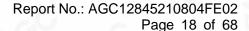
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

8.3. LIMITS AND MEASUREMENT RESULTS

Test Data of Occupied Bandwidth and DTS Bandwidth					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
- 60	2402	1.022	0.676	≥0.5	Pass
GFSK 1M	2440	1.021	0.678	≥0.5	Pass
· ·	2480	1.023	0.676	≥0.5	Pass
-C	2402	2.055	1.391	≥0.5	Pass
GFSK 2M	2440	2.047	1.412	≥0.5	Pass
0	2480	2.049	1.375	≥0.5	Pass

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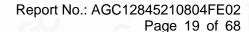


Test Graphs of Occupied Bandwidth

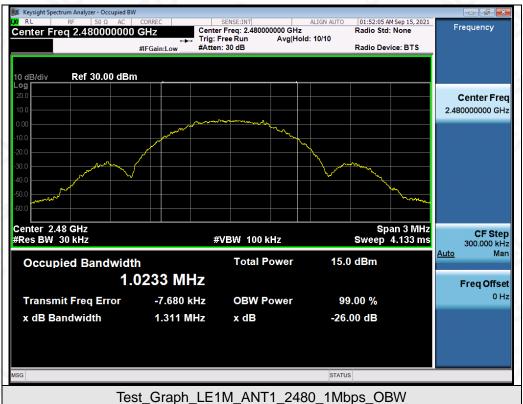




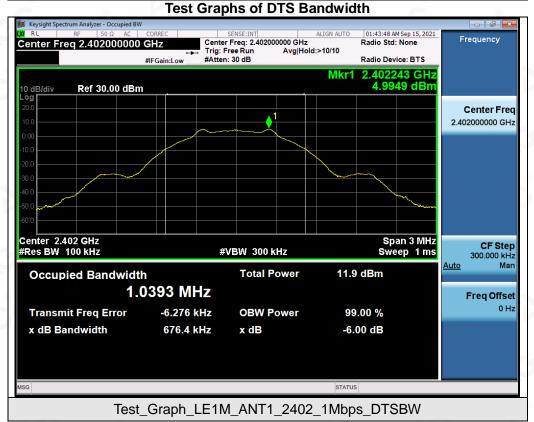
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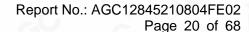




Test_Graph_LE Tivi_ANTT_2460_Tivibps_C

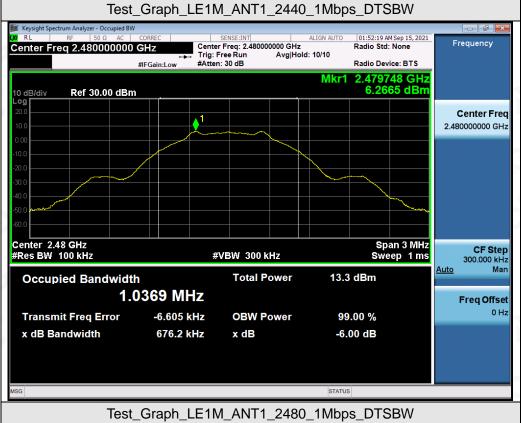


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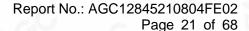








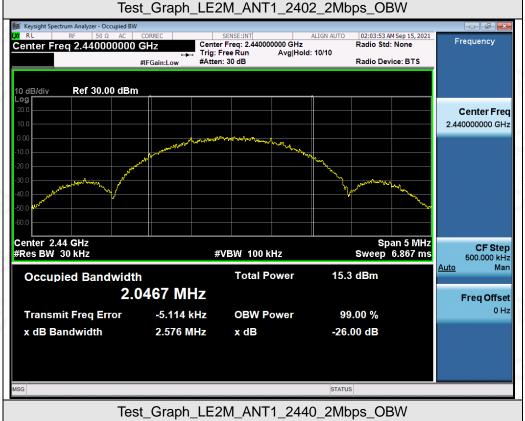
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Test Graphs of Occupied Bandwidth



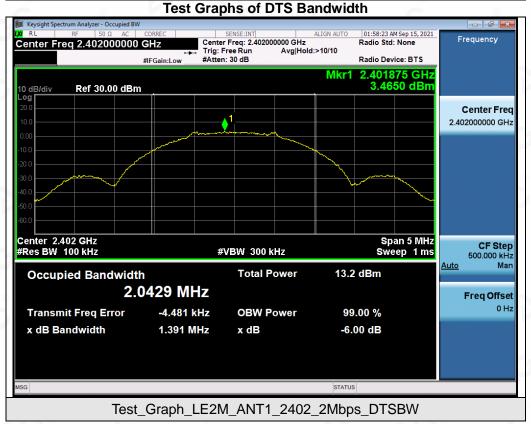


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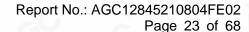








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9. CONDUCTED SPURIOUS EMISSION

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.

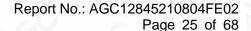
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT					
A north a black to	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			

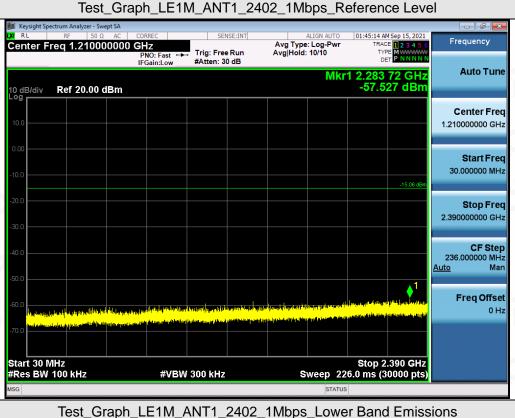
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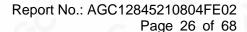


Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands





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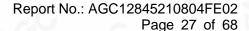








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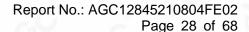






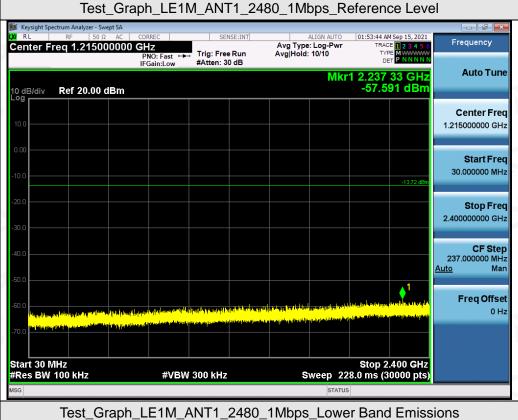


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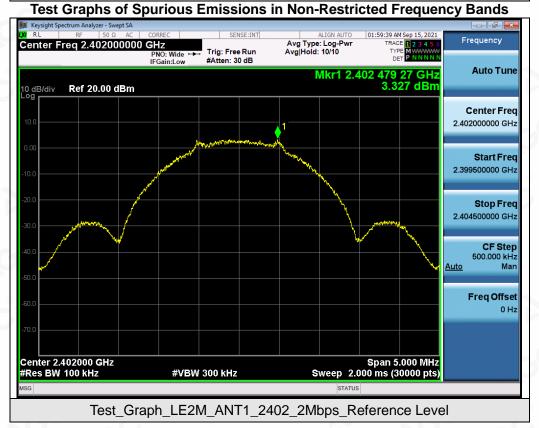


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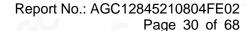




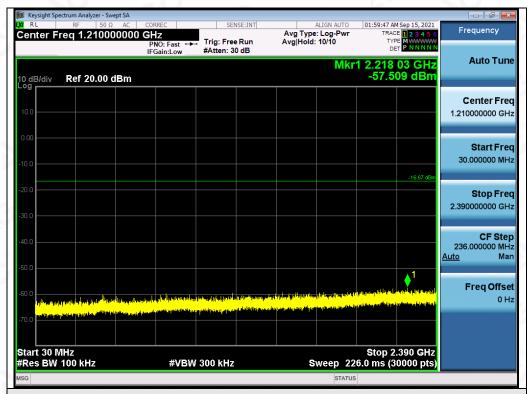
Test_Graph_LE1M_ANT1_2480_1Mbps_Higher Band Emissions



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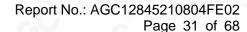






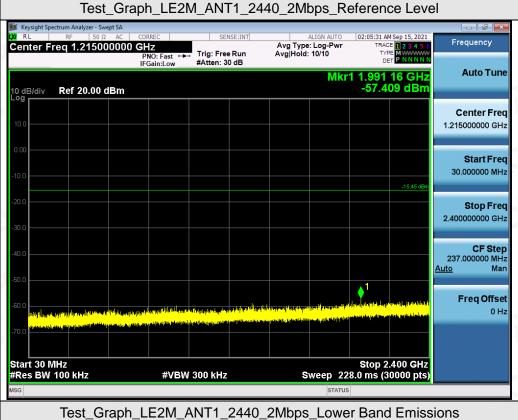


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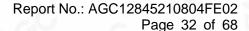






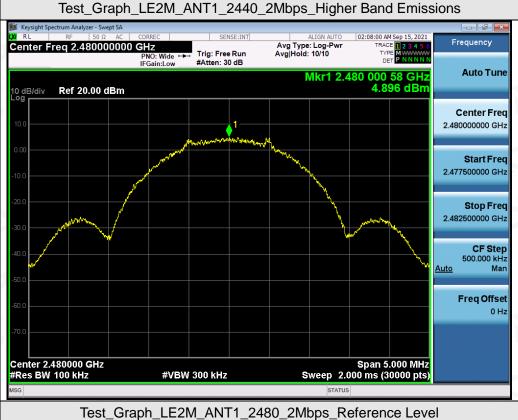


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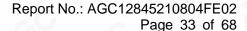




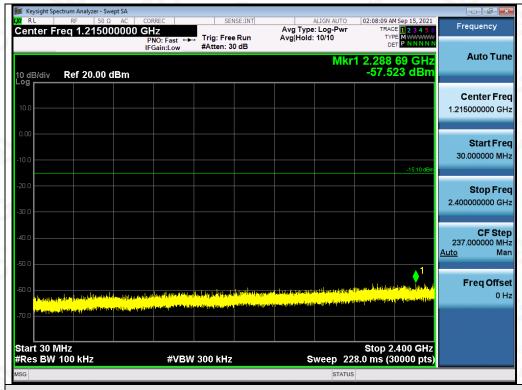




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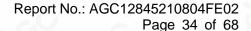








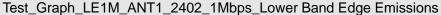
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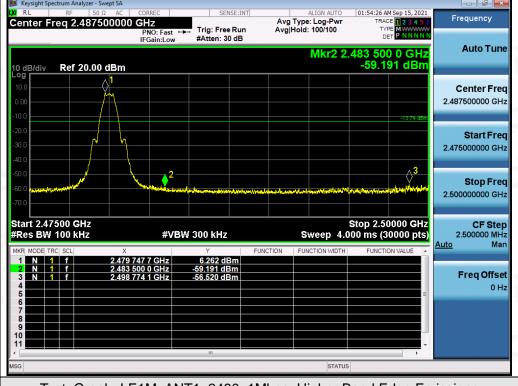




Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands

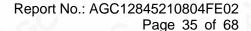






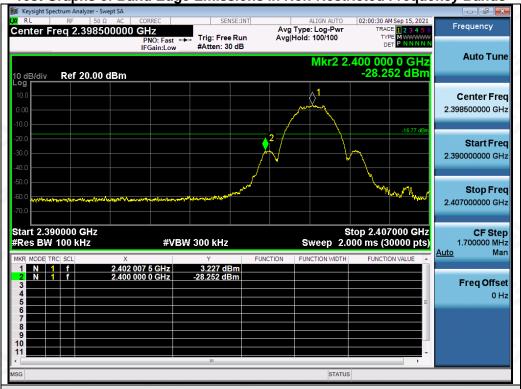
Test_Graph_LE1M_ANT1_2480_1Mbps_Higher Band Edge Emissions

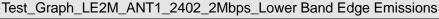
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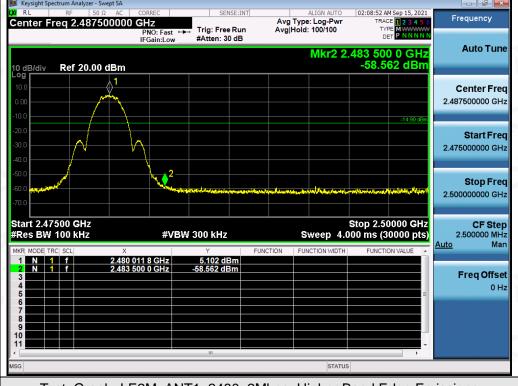




Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands







Test_Graph_LE2M_ANT1_2480_2Mbps_Higher Band Edge Emissions

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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.

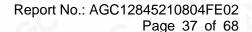
10.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

10.4. LIMITS AND MEASUREMENT RESULT

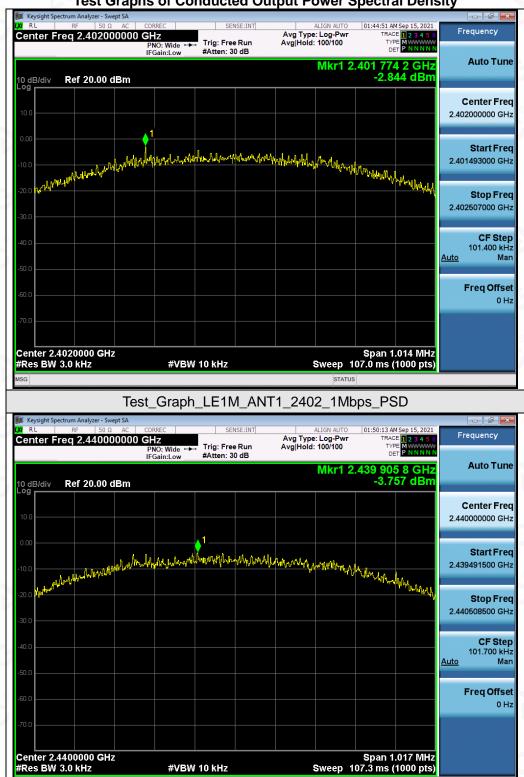
Test Data of Conducted Output Power Spectral Density					
Test Mode	Test Channel (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail	
6	2402	-2.844	≤8	Pass	
GFSK 1M	2440	-3.757	≤8	Pass	
	2480	-2.202	≤8	Pass	
, ,	2402	-7.010	≤8	Pass	
GFSK 2M	2440	-6.135	≤8	Pass	
	2480	-6.549	≤8	Pass	

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Test Graphs of Conducted Output Power Spectral Density



Test_Graph_LE1M_ANT1_2440_1Mbps_PSD

Compliance Dedicated Festing/Inspection Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Any report having not been signed by authorized approver, or having been altered without authorization, or having not been signed by authorized approver, or having been altered without authorization, or having not been signed by authorization of AGC. The test results start is the resert apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

#VBW 10 kHz