

# TEST REPORT

**Application No.:** SHCR2304000842HS  
**FCC ID:** 2A8LA-INTRO-RFID  
**IC:** 29104-INTRORFID  
**Applicant:** BURG LUELING GMBH & CO. KG  
**Address of Applicant:** Volmarsteiner Strasse 52, 58089 Hagen-Germany  
**Manufacturer:** Ningbo Wangtong Locks Co.,LTD  
**Address of Manufacturer:** Guanhaiwei Industrial Zone West Section, Cixi, Zhejiang, China  
**Factory:** Ningbo Wangtong Locks Co.,LTD  
**Address of Factory:** Guanhaiwei Industrial Zone West Section, Cixi, Zhejiang, China  
**Equipment Under Test (EUT):**  
**EUT Name:** Intro.RFID  
**Model No.:** EIRR / W-EIR-01, EIRR / W-EIR-03  
**Remark:** Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.  
**Trade Mark:** BURG  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.225  
RSS-210 issue 10 Amendment 1  
RSS-Gen Issue 5, April 2018, Amendment 2  
**Date of Receipt:** 2023-04-27  
**Date of Test:** 2023-04-28 to 2023-05-09  
**Date of Issue:** 2023-05-15

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Parlam Zhan

Parlam Zhan  
Laboratory Manager



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Revision Record			
Version	Description	Date	Remark
00	Original	2023-05-15	/

Authorized for issue by:			
		Wade Zhang	
		Wade Zhang/Project Engineer	
		Parlam Zhan	
		Parlam Zhan / Reviewer	



## 2 Test Summary

Radio Spectrum Technical Requirement				
Item	FCC Requirement	IC Requirement	Method	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.225	N/A	RSS-Gen Section 6.8	Customer Declaration

Radio Spectrum Matter Part				
Item	FCC Requirement	IC Requirement	Method	Result
20dB Bandwidth	47 CFR Part 15, Subpart C 15.225	RSS-210 Issue 9 August 2016 (Amendment)	ANSI C63.10 (2013) Section 6.9	Pass
Emission Mask	47 CFR Part 15, Subpart C 15.225	RSS-210 Issue 9 August 2016 (Amendment)	ANSI C63.10 (2013) Section 6.4	*Pass
Frequency tolerance	47 CFR Part 15, Subpart C 15.225	RSS-210 Issue 9 August 2016 (Amendment)	ANSI C63.10 (2013) Section 6.8	Pass
Radiated Emissions(9kHz-30MHz)	47 CFR Part 15, Subpart C 15.225	RSS-210 Issue 9 August 2016 (Amendment)	ANSI C63.10 (2013) Section 6.4&6.5	Pass
Radiated Emissions(30MHz-1GHz)	47 CFR Part 15, Subpart C 15.225	RSS-210 Issue 9 August 2016 (Amendment)	ANSI C63.10 (2013) Section 6.4&6.5	Pass
99% Bandwidth	-	RSS-210 Issue 9 August 2016 (Amendment)	RSS-Gen Section 6.7	Pass

**Remark** \*: The test level of the fundamental signal is below the limit of general spurious emission, so the test item doesn't be performed.

**Note**: There are series models mentioned in this report, and they are the identical in electrical and electronic characters. Only the model EIRR / W-EIR-01 was tested since their differences were the model number and packaging.



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	DC 3V (1* CR2450 Battery)
Test Voltage:	DC 3V
Operation Frequency:	13.56MHz
Modulation Type:	ASK
Antenna Type:	Loop Antenna
S/N:	23048-001600002
Firmware Version:	V1.1

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
NFC Card	BURG	/	/

### 4.3 Measurement Uncertainty & Decision Rule

No.	Item	Measurement Uncertainty
1	Radio Frequency	$8.4 \times 10^{-8}$
2	Timeout	2s
3	Duty cycle	0.4%
4	Occupied Bandwidth	3%
5	RF Radiated power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
6	Radiated Spurious emission test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-6GHz)
		5.4dB (6GHz-18GHz)
7	Temperature test	1°C
8	Humidity test	3%
9	Supply voltages	1.5%
10	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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#### 4.4 Test Location

All tests were performed at:

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Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc ) is provided by the applicant. (if applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

#### 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 6332.01)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

• **FCC (Designation Number: CN1301)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

• **ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 8617A

• **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
<b>RF Radiated Test</b>					
EMI test Receiver	R&S	ESU40	SHEM051-1	2022-12-20	2023-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2022-12-20	2023-12-19
Communication Tester	R&S	CMW500	SHEM268-1	2022-07-25	2023-07-24
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2022-12-20	2023-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2021-09-11	2023-09-10
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2022-05-07	2024-05-06
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2022-08-11	2024-08-10
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2021-09-18	2023-09-17
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2021-09-18	2023-09-17
Pre-Amplifier	HP	8447D	SHEM236-1	2022-08-02	2023-08-01
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2022-12-20	2023-12-19
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2021-05-25	2024-05-24
RE test Cable	/	RE01, RE02, RE06	/	2023-01-07	2024-01-06
Test software	ESE	E3	Version: 6.111221a	/	/





## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

#### 6.1.2 Conclusion

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is loop antenna integrated on the main PCB and no consideration of replacement.

Antenna location: Refer to Internal photos



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## 7 Radio Spectrum Matter Test Results

### 7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215

Test Method: ANSI C63.10 (2013) Section 6.9

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °C

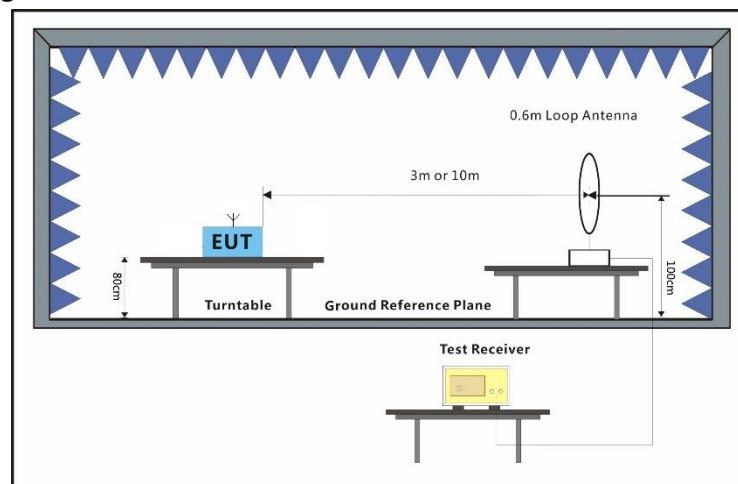
Humidity: 42.2 % RH

Atmospheric Pressure: 1010 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode with modulation continuously.

#### 7.1.3 Test Setup Diagram



#### 7.1.4 Measurement Procedure and Data

The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.

Please Refer to Appendix for Details



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### 7.2 Emission Mask

Test Requirement 47 CFR Part 15, Subpart C 15.225(a)&(b)&(C )  
Test Method: ANSI C63.10 (2013) Section 6.4

Limit:

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

#### Below 30MHz

The limit at 30m test distance is below:

$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left( \frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

where

$FS_{\text{limit}}$  is the calculation of field strength at the limit distance, expressed in dBμV/m  
 $FS_{\text{max}}$  is the measured field strength, expressed in dBμV/m  
 $d_{\text{measure}}$  is the distance of the measurement point from the EUT  
 $d_{\text{limit}}$  is the reference distance or the distance of the  $\lambda/2\pi$  point

The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 84dBuV/m at 30 meters.

#### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °C Humidity: 42.5 % RH Atmospheric Pressure: 1010 mbar

#### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode with modulation continuously.



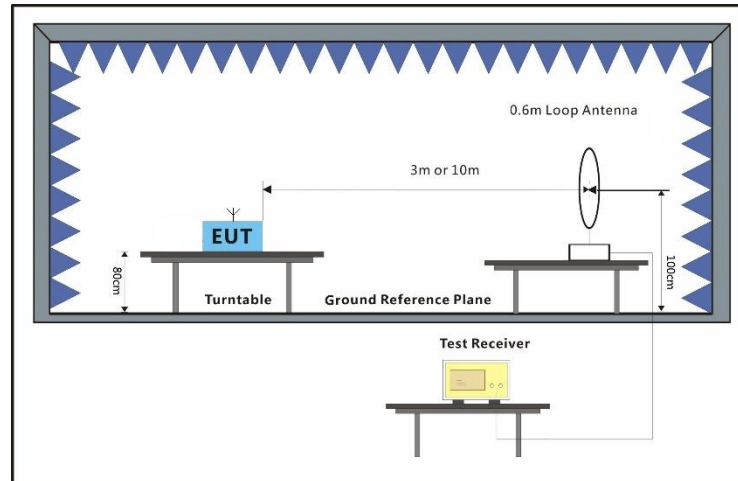
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### 7.2.3 Test Setup Diagram



### 7.2.4 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.

Note: The test level of the fundamental signal is below the limit of general spurious emission, so the test item doesn't be performed.



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### 7.3 Radiated Emissions (9kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4&6.5

Limit:

Frequency(MHz)	Field strength (microvolts/meter)	Limit (dBuV/m)	Detector	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	-	300
0.490-1.705	24000/F(kHz)	-	-	30
1.705-30	30	-	-	30

#### Note:

(1) For test distance other than what is specified, but fulfilling the requirements of section 15.31(f) (2) the field strength is calculated by adding additionally an extrapolation factor of 40dB/decade (inverse linear distance for field strength measurements).

So the Distance Extrapolation Factor in dB is  $40 \cdot \log(D_{TEST} / D_{SPEC})$  where  $D_{TEST}$  = Test Distance and  $D_{SPEC}$  = Specified Distance.

Field strength limit (dBuV/m)@test distance= Field strength limit (dBuV/m)@specified distance +Distance Extrapolation Factor

(2) The lower limit shall apply at the transition frequencies.

#### Below 30MHz

If field strength is measured at only a single point, then that point shall be at the radial from the EUT that produces the maximum emission at the frequency being measured, as described in 5.4. If that point is closer to the EUT than  $\lambda/2\pi$  and the limit distance is greater than  $\lambda/2\pi$ , the measurement shall be extrapolated to the limit distance by conservatively presuming that the field strength decreases at a 40 dB/decade of distance rate to the  $\lambda/2\pi$  distance, and at a 20 dB/decade of distance rate beyond  $\lambda/2\pi$ . This shall be accomplished using Equation (2):

$$FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(near\ field)}/d_{(10m)}\} + 20\log\{d_{(30/300m)}/d_{(near\ field)}\} \quad (2)$$

If the single point measured is at a distance greater than  $\lambda/2\pi$ , then extrapolation to the limit distance shall be calculated using Equation (3):

$$FS_{(10m)} = FS_{(30/300m)} + 20\log\{d_{(30/300m)}/d_{(10m)}\} \quad (3)$$

If both the single point and the limit distance are equal to or closer to the EUT than  $\lambda/2\pi$ , then extrapolation to the limit distance shall be calculated using Equation (4):

$$FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(30/300m)}/d_{(10m)}\} \quad (4)$$

Remark:

$$d_{near\ field} = 47.77 / f_{MHz}$$

where  $f_{MHz}$  is the frequency of the emission being measured in MHz.



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Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left( \frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

where

$FS_{\text{limit}}$  is the calculation of field strength at the limit distance, expressed in dBμV/m  
 $FS_{\text{max}}$  is the measured field strength, expressed in dBμV/m  
 $d_{\text{measure}}$  is the distance of the measurement point from the EUT  
 $d_{\text{limit}}$  is the reference distance or the distance of the  $\lambda/2\pi$  point

### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °C

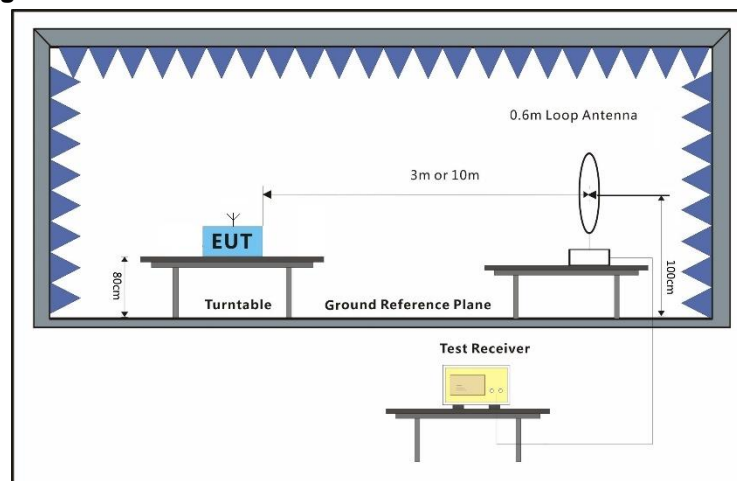
Humidity: 42.7 % RH

Atmospheric Pressure: 1010 mbar

### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode with modulation continuously.

### 7.3.3 Test Setup Diagram



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#### 7.3.4 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.

Please Refer to Appendix for Details



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### 7.4 Radiated Emissions (30MHz-1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4&6.5

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

#### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °C

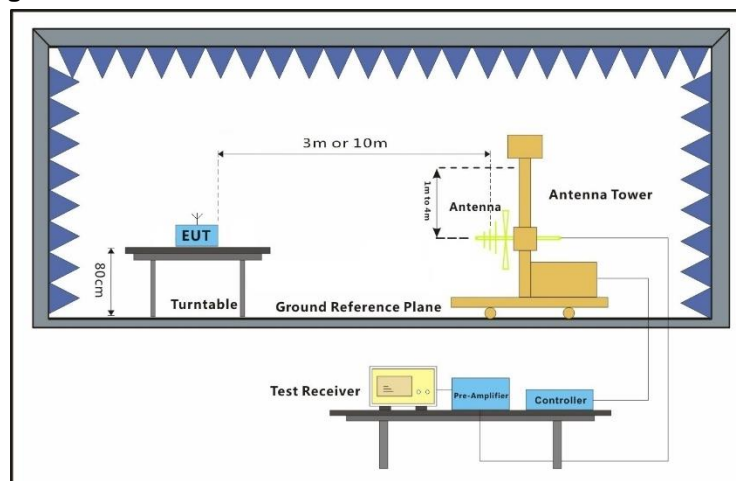
Humidity: 43.1 % RH

Atmospheric Pressure: 1010 mbar

#### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode with modulation continuously.

#### 7.4.3 Test Setup Diagram



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#### 7.4.4 Measurement Procedure and Data

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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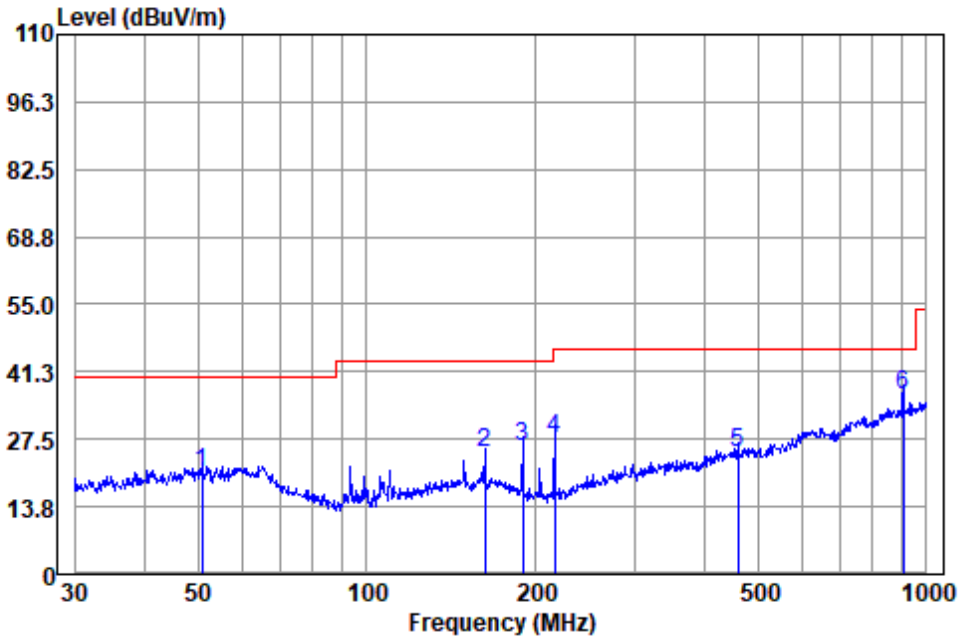
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Test Mode: 00; Polarity: Horizontal



Antenna Polarity :HORIZONTAL

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	50.764	31.52	13.82	1.46	26.20	20.60	40.00	-19.40	QP
2	162.611	36.40	13.21	2.06	27.03	24.64	43.50	-18.86	QP
3	189.739	39.81	10.70	2.25	26.74	26.02	43.50	-17.48	QP
4	216.783	41.97	9.81	2.52	26.76	27.54	46.00	-18.46	QP
5	460.727	30.63	17.22	3.55	26.73	24.67	46.00	-21.33	QP
6	909.667	35.03	23.95	5.05	27.39	36.64	46.00	-9.36	QP

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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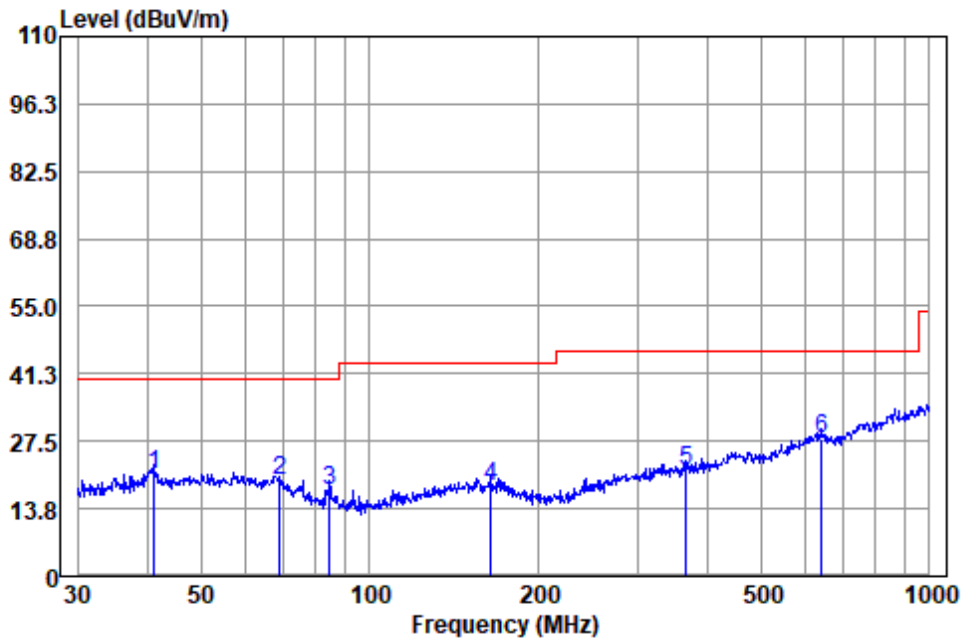
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Test Mode: 00; Polarity: Vertical



Antenna Polarity :VERTICAL

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	41.277	32.11	13.49	1.34	26.20	20.74	40.00	-19.26	QP
2	69.114	32.01	11.93	1.60	26.11	19.43	40.00	-20.57	QP
3	84.702	33.56	8.39	1.66	26.10	17.51	40.00	-22.49	QP
4	164.330	29.98	13.19	2.06	27.01	18.22	43.50	-25.28	QP
5	366.823	29.78	15.02	3.40	26.80	21.40	46.00	-24.60	QP
6	640.611	30.61	20.68	4.05	27.20	28.14	46.00	-17.86	QP

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



### 7.5 Frequency tolerance

Test Requirement 47 CFR Part 15, Subpart C 15.225(e)  
 Test Method: ANSI C63.10 (2013) Section 6.8  
 Limit:  $\pm 0.01$

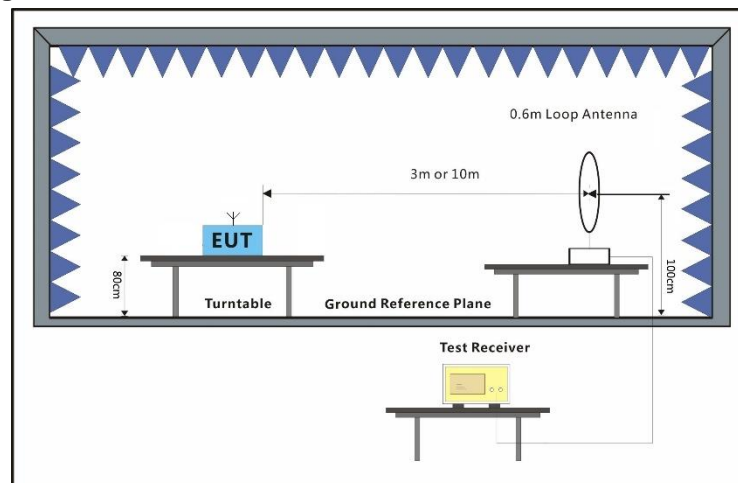
#### 7.5.1 E.U.T. Operation

Operating Environment:  
 Temperature: 21.9 °C Humidity: 43.1 % RH Atmospheric Pressure: 1010 mbar

#### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode with modulation continuously.

#### 7.5.3 Test Setup Diagram



#### 7.5.4 Measurement Procedure and Data

The EUT was placed in an environmental test chamber and powered such that control element received normal voltage and the transmitter provided maximum RF output.

Please Refer to Appendix for Details



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### 7.6 99% Bandwidth

Test Requirement RSS-Gen Section 6.7

Test Method: RSS-Gen March 2019 Amendment 1 Section 6.7

#### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °C

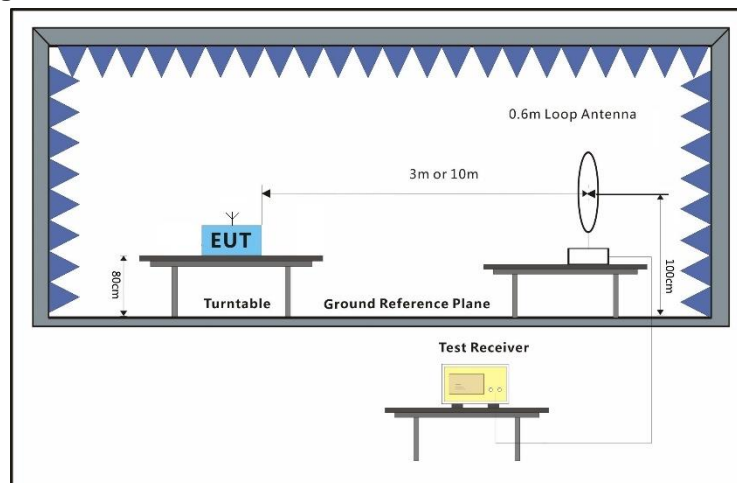
Humidity: 42.9 % RH

Atmospheric Pressure: 1010 mbar

#### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode with modulation continuously.

#### 7.6.3 Test Setup Diagram



#### 7.6.4 Measurement Procedure and Data

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### 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SHCR2304000842HS

### 9 EUT Constructional Details (EUT Photos)

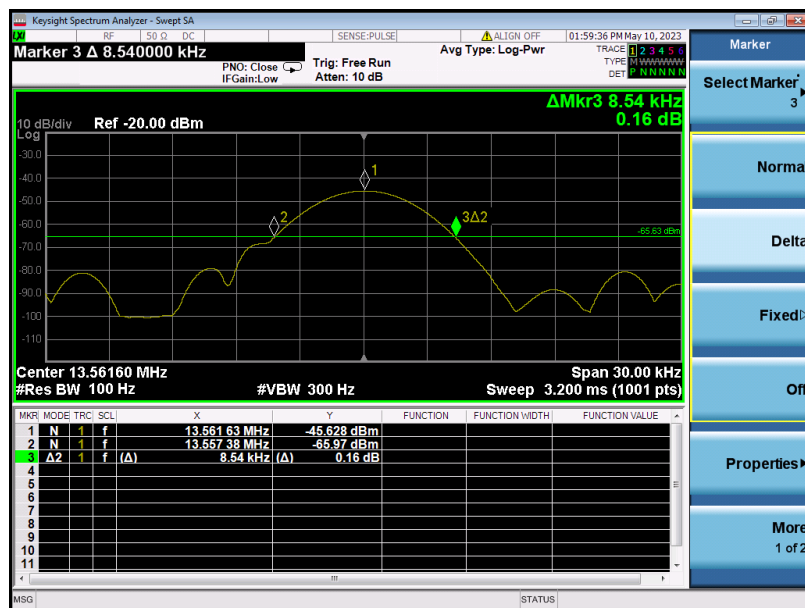
Refer to Appendix - Photographs of EUT Constructional Details for SHCR2304000842HS

## 10 Appendix

### 1. 20dB Bandwidth

20dB bandwidth (kHz)	F <sub>L</sub> (MHz)	F <sub>H</sub> (MHz)	Limit(MHz)	Result
8.54	13.55738	13.56163	13.110 – 14.010	Pass

Test plot as follows:



### 3. Frequency tolerance

Nominal Operation Frequency: 13.56MHz

Test Conditions		Test Result (MHz)	Deviation (kHz)	Limit (kHz)	Result
Temp (°C)	Volt (V DC)				
T <sub>nom</sub> (-20)	V <sub>nom</sub> (3)	13.56012	0.12	±0.01% (1.3560kHz)	Pass
T <sub>nom</sub> (-10)	V <sub>nom</sub> (3)	13.56015	0.15		Pass
T <sub>nom</sub> (0)	V <sub>nom</sub> (3)	13.56021	0.21		Pass
T <sub>nom</sub> (10)	V <sub>nom</sub> (3)	13.56011	0.11		Pass
T <sub>nom</sub> (20)	V <sub>nom</sub> (3)	13.56014	0.14		Pass
T <sub>nom</sub> (30)	V <sub>nom</sub> (3)	13.56016	0.16		Pass
T <sub>nom</sub> (40)	V <sub>nom</sub> (3)	13.56013	0.13		Pass
T <sub>nom</sub> (50)	V <sub>nom</sub> (3)	13.56017	0.17		Pass
T <sub>nom</sub> (20)	V <sub>min</sub> (2.7)	13.56018	0.18		Pass
	V <sub>max</sub> (3.3)	13.56022	0.22		Pass

Note: Deviation (kHz) = (Test Result-13.56MHz)\*1000


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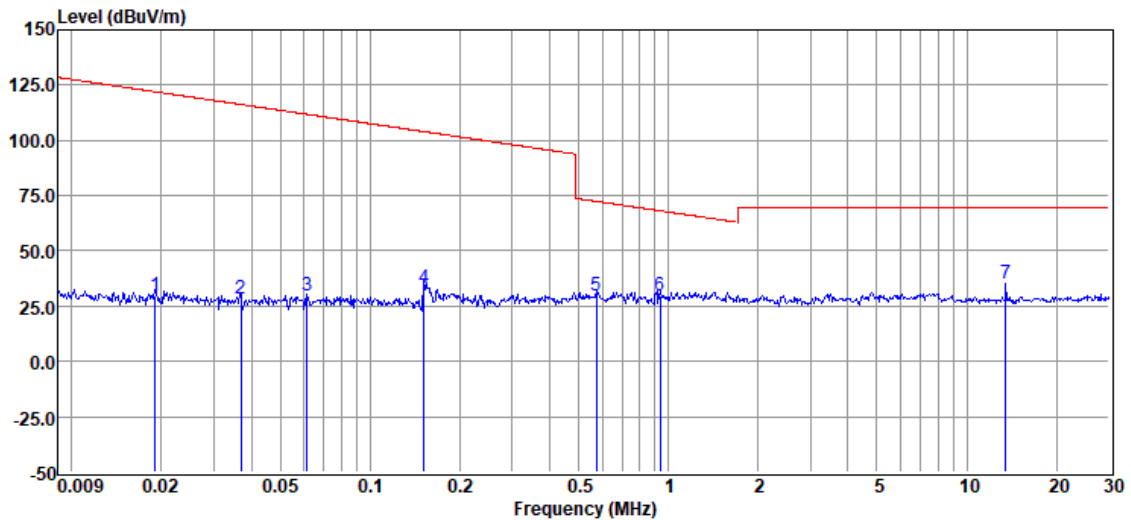
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### 4. Radiated Emissions(9kHz-30MHz)

Coaxial:



Item	Freq.	Read Level	Antenna Factor	Cable Loss	Result Level@3m	Result Level@S PEC	Limit Line@SP EC	Over Limit	Detector
(Mark)	(MHz)	(dBuV)	(dB/m)	(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.019	9.40	20.00	0.10	29.50	-50.5	42.02	-92.52	QP
2	0.037	8.36	19.90	0.10	28.36	-51.64	36.25	-87.89	QP
3	0.062	9.71	19.80	0.10	29.61	-50.39	31.81	-82.2	QP
4	0.151	12.92	20.00	0.10	33.02	-46.98	23.99	-70.97	QP
5	0.573	9.47	20.10	0.10	29.67	-10.33	32.45	-42.78	QP
6	0.939	9.61	20.20	0.10	29.91	-10.09	28.16	-38.25	QP
7	13.548	14.87	20.05	0.39	35.31	-4.69	29.5	-34.19	Peak

Remark: Result Level= Read Level + Antenna Factor + Cable Loss



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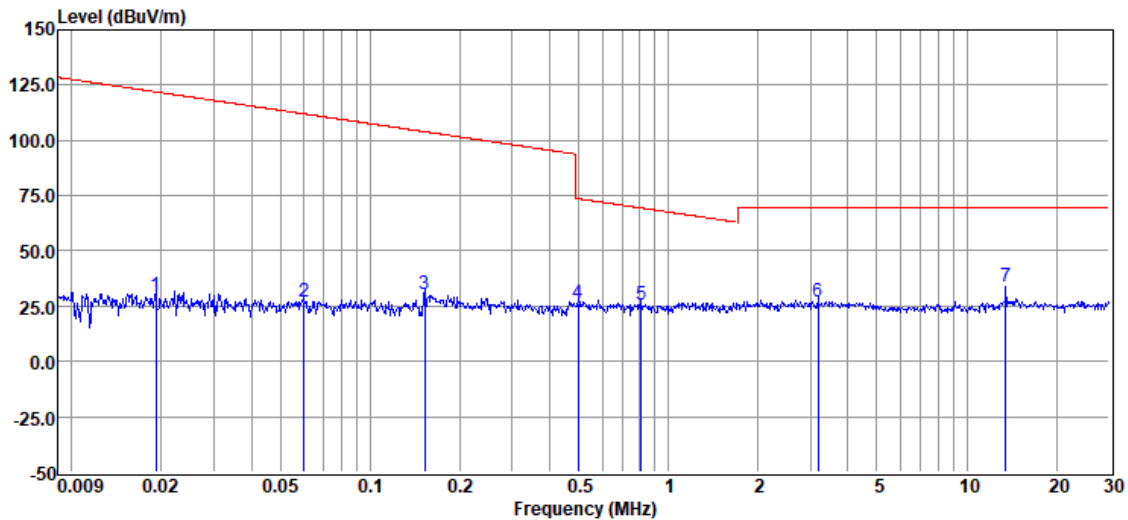
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### Coplanar:



Item	Freq.	Read Level	Antenna Factor	Cable Loss	Result Level@3m	Result Level@S PEC	Limit Line@SP EC	Over Limit	Detector
(Mark)	(MHz)	(dBμV)	(dB/m)	(dB)	(dBUV/m)	(dBUV/m)	(dBUV/m)	(dB)	
1	0.019	9.51	20.00	0.10	29.61	-50.39	41.95	-92.34	QP
2	0.060	6.82	19.80	0.10	26.72	-53.28	32.02	-85.3	QP
3	0.153	10.56	20.00	0.10	30.66	-49.34	23.92	-73.26	QP
4	0.499	6.03	20.10	0.10	26.23	-13.77	33.64	-47.41	QP
5	0.812	5.30	20.11	0.10	25.51	-14.49	29.43	-43.92	QP
6	3.172	6.36	20.30	0.20	26.86	-13.14	29.5	-42.64	QP
7	13.548	13.26	20.05	0.39	33.70	-6.3	29.5	-35.8	Peak

Remark: Result Level= Read Level + Antenna Factor + Cable Loss



### 5. 99% Bandwidth

Frequency (MHz)	99% bandwidth (kHz)
13.56	6.460

Test plot as follows:



- End of the Report -

