

## **FCC - TEST REPORT**

Report Number	:	68.912.19.0036.01	Date of Issue:	March 7, 2020

Model 8A-SS-BE-H0

Product Type Door/Window sensor

LEEDARSON LIGHTING CO., LTD Applicant

Address Xingda Road, Xingtai Industrial Zone, Changtai County,

Zhangzhou, Fujian, China

**Production Facility** LEEDARSON LIGHTING CO., LTD

Address Xingda Road, Xingtai Industrial Zone, Changtai County,

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Test Result Negative n Positive

Total pages including **Appendices** 

26

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# 2 Details about the Test Laboratory

# **Details about the Test Laboratory**

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

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Nantou Checkpoint Road 2, Nanshan District,

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P. R. China

FCC Registration

514049

Number:

ISED#:

10320A

CAB identifier: CN0077

Telephone: 86 755 8828 6998 Fax: 86 755 8828 5299



# 3 Description of the Equipment under Test

Product: Door/Window sensor

Model no.: 8A-SS-BE-H0

FCC ID: 2AB2Q8ASSBEH0

Ratings: 3VDC

RF Transmission 2402MHz-2480MHz

Frequency:

No. of Operated Channel: 40

Modulation: GFSK

Antenna Type: Integral PCB antenna

Antenna Gain: 1.8dBi

Description of the EUT: The Equipment Under Test (EUT) is a Door/Window sensor

supports 2.4GHz Bluetooth Low Energy functions.



# 4 Summary of Test Standards

Test Standards		
FCC Part 15 Subpart C PART 15 - RADIO FREQUENCY DEVICES		
10-1-2018 Edition	Subpart C - Intentional Radiators	

All the test methods were according to KDB558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10 (2013).



# 5 Summary of Test Results

Technical Requirements							
FCC Part 15 Subpart C  To a living a living and a living							
Test Condition		Pages	Site	Pass			
§15.207	Conducted emission AC power port	See r	ote 2				
§15.247 (b) (1)	Conducted peak output power	10	Site 1				
§15.247(a)(1)	20dB bandwidth					$\boxtimes$	
§15.247(a)(1)	Carrier frequency separation					$\boxtimes$	
§15.247(a)(1)(iii)	Number of hopping frequencies					$\boxtimes$	
§15.247(a)(1)(iii)	Dwell Time					$\boxtimes$	
§15.247(a)(2)	6dB bandwidth	12	Site 1	$\boxtimes$			
§15.247(e)	Power spectral density	14	Site 1	$\boxtimes$			
§15.247(d)	Spurious RF conducted emissions	16	Site 1	$\boxtimes$			
§15.247(d)	Band edge	20	Site 1	$\boxtimes$			
§15.247(d) & §15.209	Spurious radiated emissions for transmitter	22	Site 1				
§15.203	Antenna requirement	See r	note 3	$\boxtimes$			

Note 1: N/A=Not Applicable.

Note 2: The EUT is not intended to operate from the AC power lines;

Note 3: The EUT uses an Integral PCB antenna, which gain is 1.8dBi. In accordance to §15.203, It is considered sufficiently to comply with the provisions of this section.



### 6 General Remarks

### **Remarks**

This submittal(s) (test report) is intended for FCC ID:2AB2Q8ASSBEH0 complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C rules.

### SUMMARY:

All tests according to the regulations cited on page 5 were

- n Performed
- O Not Performed

The Equipment under Test

- n Fulfills the general approval requirements.
- Does not fulfill the general approval requirements.

Sample Received Date: December 02, 2019

Testing Start Date: December 02, 2019

Testing End Date: December 07, 2019

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch -

Reviewed by: Prepared by: Tested by:

Laurent Yuan H
EMC Project Manager EMC P

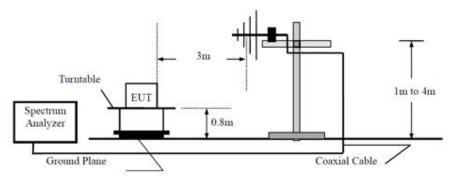
Henry Chen EMC Project Engineer



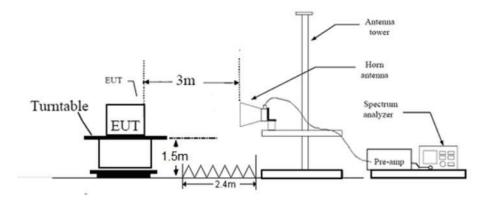
# 7 Test Setups

# 7.1 Radiated test setups

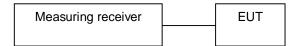
### Below 1GHz



### Above 1GHz



# 7.2 Conducted RF test setups





# 8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.	S/N

Test software information:

Test Software Version	EMI_Test_Tool	
Modulation	Setting TX Power	Packet Type
GFSK	7dBm	1

The system was configured to channel 0, 19, and 39 for the test.



# 9 Technical Requirement

## 9.1 Conducted Peak output power

### **Test Method**

- The EUT was placed on 0.8m height table, the RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.
- 2. Setting the highest output power level of the EUT
- 3. Use the following spectrum analyzer settings: RBW ≥ DTS bandwidth, VBW ≥ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold, allow trace to fully stabilize.
- 4. Record the peak power value.

### **Test Setup**



#### Limits

According to §15.247 (b) (3), conducted AV output power limit as below:

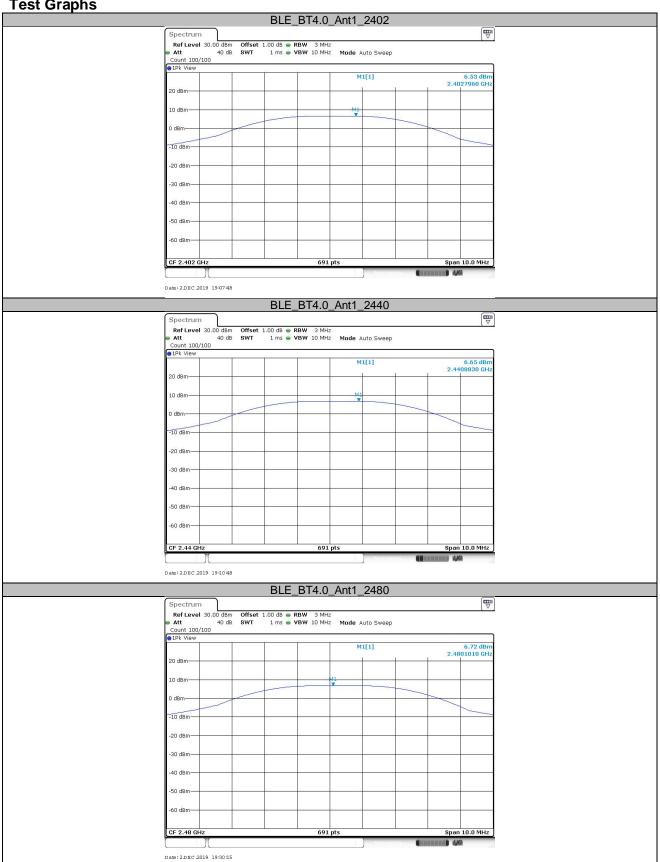
Frequency Range	Limit	Limit
MHz	W	dBm
2400-2483.5	≤1	≤30

Test result as below table

	Conducted peak	
Frequency	Output Power	Result
MHz	dBm	
Top channel 2402MHz	6.53	Pass
Middle channel 2440MHz	6.65	Pass
Bottom channel 2480MHz	6.72	Pass









### 9.2 6dB bandwidth

#### **Test Method**

- 1. Connect EUT test port to spectrum analyzer.
- Use the following spectrum analyzer settings:
   Set RBW <sup>3</sup> 1% of the 99% bandwidth, VBW <sup>3</sup> RBW.
   Sweep = auto, Detector function = peak, Trace = max hold
- 3. Use the automatic bandwidth measurement capability of an instrument, may be employed using the X dB bandwidth mode with X set to 6 dB, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.
- 4. Allow the trace to stabilize, record the X dB Bandwidth value.

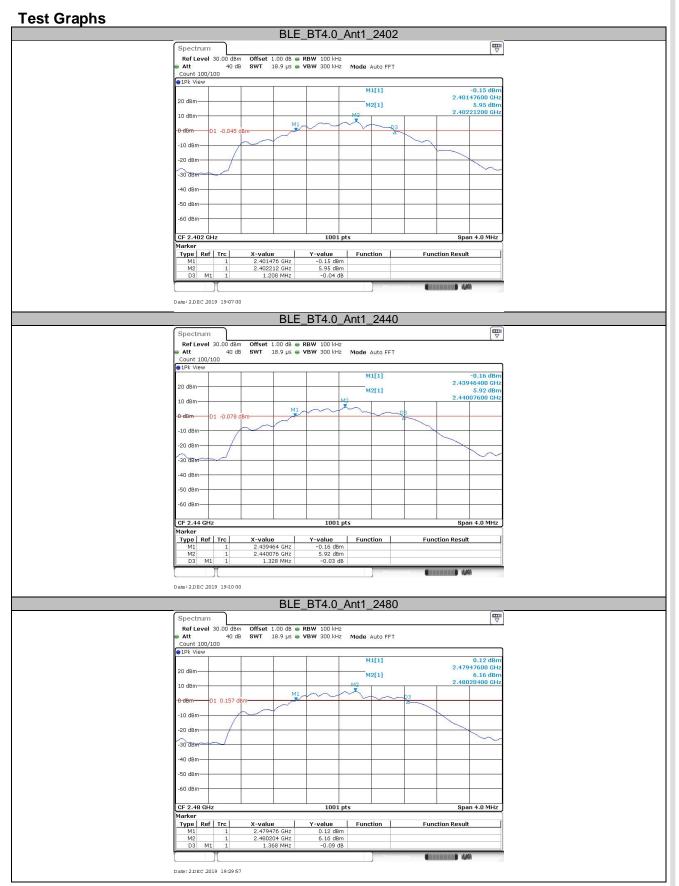
### Limit

Limit [kHz]
≥500

#### **Test result**

Test Mode	Channel (MHz)	6dB bandwidth (MHz)	Limit (KHz)	Verdict
BLE	2402	1.208	≥500	PASS
BLE	2440	1.328	≥500	PASS
BLE	2480	1.368	≥500	PASS







# 9.3 Power spectral density

### **Test Method**

- 1. Connect EUT test port to spectrum analyzer.
- 2. Set analyzer center frequency to DTS channel center frequency. RBW=3kHz, VBW≥3RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
- 3. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
- 4. Repeat above procedures until other frequencies measured were completed.

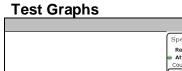
### Limit

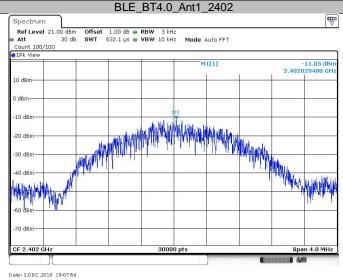
Limit [dBm/3KHz]	
 ≤8	

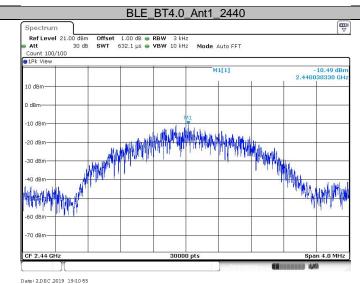
### **Test result**

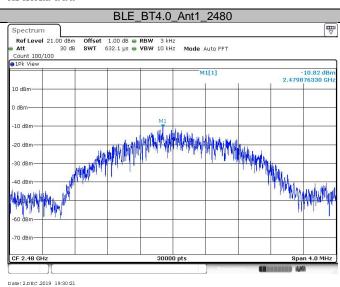
Test Mode	Channel (MHz)	Result (dBm/3KHz)	Limit(dBm/3KHz)	Verdict
BLE	2402	-11.05	8	PASS
BLE	2440	-10.49	8	PASS
BLE	2480	-10.82	8	PASS













## 9.4 Spurious RF conducted emissions

#### **Test Method**

- 1. Connect EUT test port to spectrum analyzer.
- 2. Establish a reference level by using the following procedure:
  - a. Set RBW=100 kHz. VBW≥3RBW. Detector =peak, Sweep time = auto couple, Trace mode = max hold.
  - b. Allow trace to fully stabilize, use the peak marker function to determine the maximum PSD level.
- 3. Use the maximum PSD level to establish the reference level.
  - a. Set the center frequency and span to encompass frequency range to be measured.
  - b. Use the peak marker function to determine the maximum amplitude level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements, report the three highest emissions relative to the limit.
- 4. Repeat above procedures until other frequencies measured were completed.

### Limit

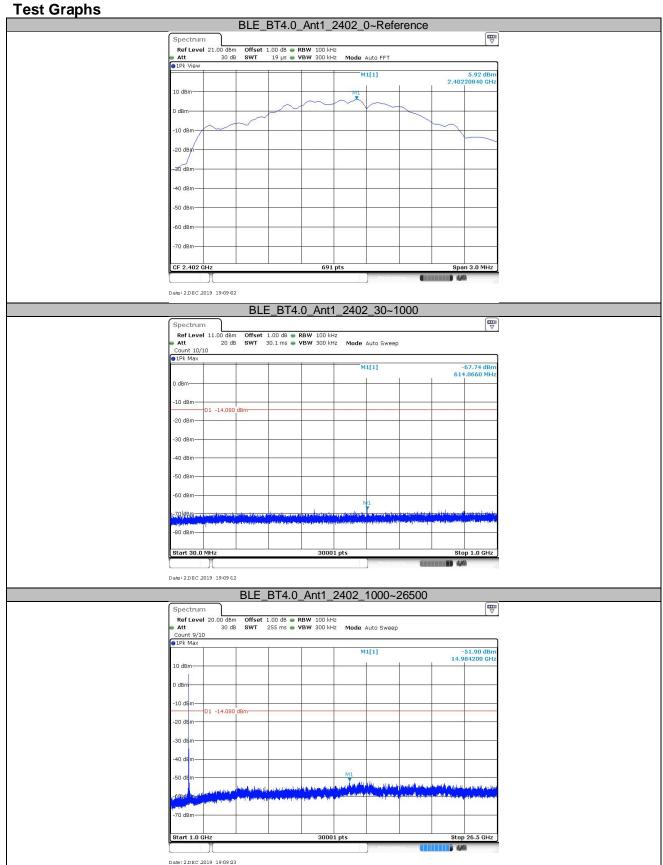
Frequency Range MHz	Limit (dBc)
30-25000	-20

#### **Test Result:**

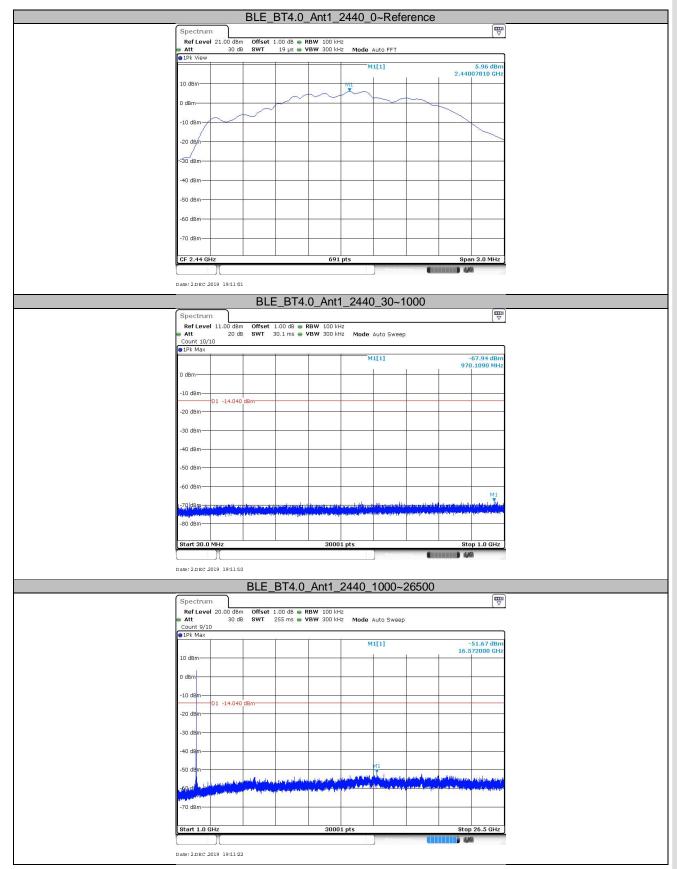
Test Mode	Antenna	Channel (MHz)	Freq Range (MHz)	Ref Level (dBm)	Result (dBm)	Limit (dBm)	Verdict
BLE	ANT1	2402	30~1000	7.73	-67.74	-14.08	PASS
BLE	ANT1	2402	1000~26500	7.73	-51.9	-14.08	PASS
BLE	ANT1	2440	30~1000	7.74	-67.94	-14.04	PASS
BLE	ANT1	2440	1000~26500	7.74	-51.67	-14.04	PASS
BLE	ANT1	2480	30~1000	7.50	-67.06	-14.01	PASS
BLE	ANT1	2480	1000~26500	7.50	-52.13	-14.01	PASS



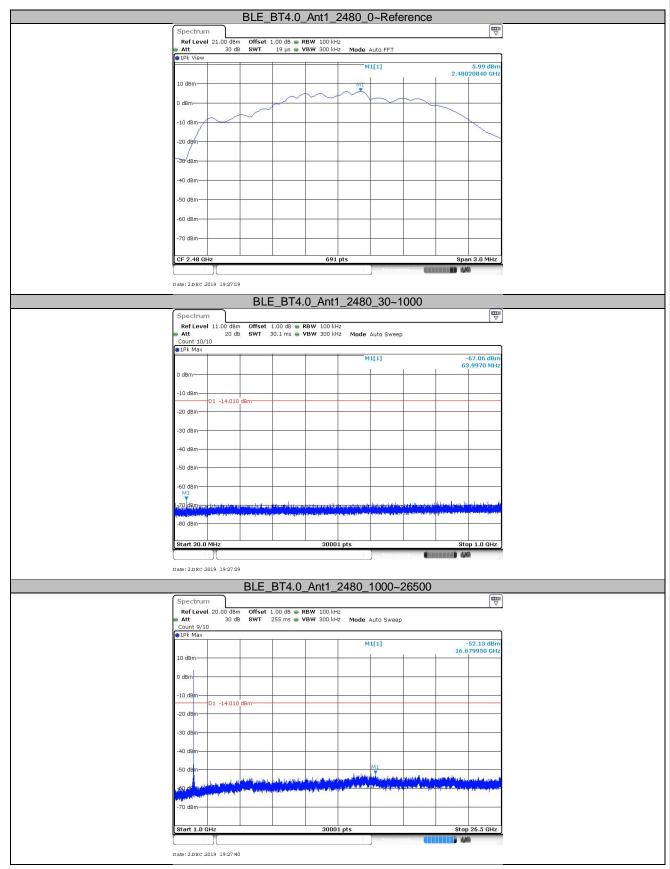














# 9.5 Band edge

### **Test Method**

- 1. 1 Connect EUT test port to spectrum analyzer.
- 2. Set spectrum analyzer setting as below:

Set RBW <sup>3</sup> 1% of the span, VBW <sup>3</sup> RBW.

Set Sweep = auto. Set Detector function = peak. Allow the trace to stabilize.

Set Span = wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation.

3. Repeat above procedures until all frequencies measured were complete.

### Limit

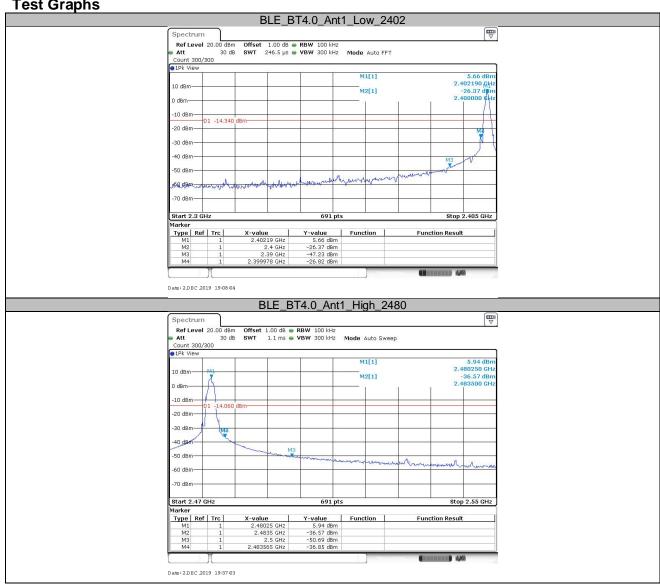
Frequency Range MHz	Limit (dBc)
30-25000	-20

### **Test result**

Test Mode	Channel (MHz)	Reference Level(dBm)	Result (dBm)	Limit (dBm)	Verdict
BLE	2402	5.66	-26.82	-14.34	PASS
BLE	2480	5.94	-36.85	-14.06	PASS









## 9.6 Spurious radiated emissions for transmitter

#### **Test Method**

- 1: The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2: The EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3: The height of antenna 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.
- 4: 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5: Use the following spectrum analyzer settings According to C63.10: For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 KHz to 120KHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

For Peak unwanted emissions Above 1GHz:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 1MHz, VBW≥RBW for peak measurement ,Sweep = auto, Detector function = peak, Trace = max hold.

Procedures for average unwanted emissions measurements above 1000 MHz

- a) RBW = 1 MHz.
- b) VBW \  $[3 \times RBW]$ .
- c) Detector = RMS (power averaging), if [span / (# of points in sweep)] \ RBW / 2. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
- d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)
- e) Sweep time = auto.
- f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D,where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)
- g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
- 1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is  $[10 \log (1 / D)]$ , where D is the duty cycle. For example, if the transmit duty



cycle was 50%, then 3 dB shall be added to the measured emission levels.

- 2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.
- 3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

#### Limit

The radio emission outside the operating frequency band shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Radiated emissions which fall in the restricted bands, as defined in section15.205, must comply with the radiated emission limits specified in section 15.209.

Frequency	Field Strength	Field Strength	Detector
MHz	uV/m	dBμV/m	
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.



### Spurious radiated emissions for transmitter

### Transmitting spurious emission test result as below:

2402MHz (30	MHz – 1GHz)						
`	Emission Level	Polarization	Limit	Margin	Detector	<b>Correction Factor</b>	Result
MHz	dBuV/m		dBµV/m	dB		dB	
674.261875	31.51	Horizontal	46.00	14.49	QP	26.7	Pass
579.808125	28.94	Vertical	46.00	17.06	QP	25.0	Pass
2402MHz (Al	oove 1GHz)						
Frequency MHz	Emission Level dBuV/m	Polarization	Limit dBµV/m	Margin dB	Detector	Correction Factor dB	Result
15937.968750*	48.17	Horizontal	74.00	25.83	PK	20.9	Pass
15946.406250*	47.93	Horizontal	74.00	26.07	PK	20.8	Pass
0440MH= (00	)MII- 4011-)						
	)MHz – 1GHz) Emission Level	Polarization	Limit	Margin	Detector	Correction Factor	Result
MHz	dBuV/m	Folarization	dBµV/m	dB	Detector	dB	Nesuit
/	/	Horizontal	/	/	QP	/	/
/	/	Vertical	/	/	QP	/	/
2440MHz (Al	oove 1GHz)						
2440MHz (Al Frequency MHz	,	Polarization	Limit dBµV/m	Margin dB	Detector	Correction Factor	Result
Frequency	Emission Level	<b>Polarization</b> Horizontal	Limit dBµV/m 74.00	_	<b>Detector</b> PK		<b>Result</b> Pass
Frequency MHz	Emission Level dBuV/m		dBμV/m	dB		dB	
Frequency MHz 15957.187500* 15982.500000*	Emission Level dBuV/m 48.33 48.21	Horizontal	<b>dBμV/m</b> 74.00	<b>dB</b> 25.67	PK	<b>dB</b> 20.6	Pass
Frequency MHz 15957.187500* 15982.500000*	Emission Level dBuV/m 48.33 48.21 DMHz – 1GHz)	Horizontal Horizontal	<b>dBμV/m</b> 74.00 74.00	<b>dB</b> 25.67 25.79	PK PK	<b>dB</b> 20.6 20.1	Pass Pass
Frequency MHz 15957.187500* 15982.500000*	Emission Level dBuV/m 48.33 48.21 DMHz – 1GHz)	Horizontal	<b>dBμV/m</b> 74.00 74.00 <b>Limit</b>	<b>dB</b> 25.67	PK	<b>dB</b> 20.6	Pass
Frequency MHz 15957.187500* 15982.500000* 2480MHz (30 Frequency	Emission Level dBuV/m 48.33 48.21  OMHz - 1GHz) Emission Level	Horizontal Horizontal	<b>dBμV/m</b> 74.00 74.00	dB 25.67 25.79 Margin	PK PK	dB 20.6 20.1 Correction Factor	Pass Pass
Frequency MHz 15957.187500* 15982.500000* 2480MHz (30 Frequency	Emission Level dBuV/m 48.33 48.21  OMHz - 1GHz) Emission Level	Horizontal Horizontal Polarization	dBμV/m 74.00 74.00 Limit dBμV/m	dB 25.67 25.79 Margin dB	PK PK Detector	dB 20.6 20.1 Correction Factor dB	Pass Pass Result
Frequency MHz 15957.187500* 15982.500000* 2480MHz (30 Frequency	Emission Level dBuV/m 48.33 48.21  DMHz - 1GHz) Emission Level dBuV/m /	Horizontal Horizontal  Polarization Horizontal	dBμV/m 74.00 74.00 Limit dBμV/m	dB 25.67 25.79 Margin dB	PK PK Detector	dB 20.6 20.1 Correction Factor dB	Pass Pass Result
Frequency MHz 15957.187500* 15982.500000* 2480MHz (30 Frequency MHz	Emission Level dBuV/m 48.33 48.21  DMHz - 1GHz) Emission Level dBuV/m /	Horizontal Horizontal  Polarization Horizontal	dBμV/m 74.00 74.00 Limit dBμV/m	dB 25.67 25.79 Margin dB	PK PK Detector	dB 20.6 20.1 Correction Factor dB	Pass Pass Result
Frequency MHz 15957.187500* 15982.500000* 2480MHz (30 Frequency MHz / 2480MHz (Al	Emission Level dBuV/m 48.33 48.21  OMHz – 1GHz) Emission Level dBuV/m / cove 1GHz)	Horizontal Horizontal  Polarization  Horizontal Vertical	dBμV/m 74.00 74.00 Limit dBμV/m /	dB 25.67 25.79 Margin dB /	PK PK Detector QP QP	dB 20.6 20.1  Correction Factor dB / /	Pass Pass Result
Frequency MHz  15957.187500* 15982.500000*  2480MHz (30) Frequency MHz / / 2480MHz (All Frequency	Emission Level dBuV/m 48.33 48.21  OMHz – 1GHz) Emission Level dBuV/m / cove 1GHz) Emission Level	Horizontal Horizontal  Polarization  Horizontal Vertical	dBμV/m 74.00 74.00  Limit dBμV/m / Limit	dB 25.67 25.79 Margin dB / /	PK PK Detector QP QP	dB 20.6 20.1  Correction Factor dB / / / Correction Factor	Pass Pass Result

#### Remark:

<sup>1:</sup> Data of measurement within this frequency range shown "/" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

<sup>2: &</sup>quot;\*" means the emission(s) appear within the restrict bands shall follow the requirement of section 15.205.

<sup>3:</sup> Emission Level = Reading Level + Correction Factor
Below 1GHz: Correction Factor=Antenna Factor + Cable Loss
Above 1GHz: Correction Factor = Antenna Factor + Cable Loss- Amplifier Gain
(The Reading Level is recorded by software which is not shown in the sheet)



# 10 Test Equipment List

### **Radiated Emission Test**

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2020-6-28
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	68-4-80-14-002	707	1	2020-8-20
Horn Antenna	Rohde & Schwarz	HF907	68-4-80-14-005	102294	1	2020-6-22
Loop Antenna	Rohde & Schwarz	HFH2-Z2	68-4-80-14-006	100398	1	2020-7-7
Pre-amplifier	Rohde & Schwarz	SCU 18	68-4-29-14-001	102230	1	2020-6-28
Signal Generator	Rohde & Schwarz	SMY01	68-4-48-16-001	839369/005	1	2020-6-28
Attenuator	Agilent	8491A	68-4-81-16-001	MY39264334	1	2020-6-28
3m Semi-anechoic chamber	TDK	9X6X6	68-4-90-14-001		3	2020-7-7
Test software	Rohde & Schwarz	EMC32	68-4-90-14-001- A10	Version9.15.00	N/A	N/A

**TS8997 Test System** 

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
Signal Generator	Rohde & Schwarz	SMB100A	68-4-48-14- 001	108272	1	2020-6-28
Vector Signal Generator	Rohde & Schwarz	SMBV100A	68-4-48-18- 001	262825	1	2020-6-28
Communication Synthetical Test Instrument	Rohde & Schwarz	CMW 270	68-4-48-18- 003	101251	1	2020-5-31
Signal Analyzer	Rohde & Schwarz	FSV40	68-4-74-14- 004	101030	1	2020-6-28
Vector Signal Generator	Rohde & Schwarz	SMU 200A	68-4-48-14- 003	105324	1	2020-6-28
RF Switch Module	Rohde & Schwarz	OSP120/OSP- B157	68-4-93-14- 003	101226/100851	1	2020-6-28
Power Splitter	Weinschel	1580	68-4-85-14- 001	SC319	1	2020-7-7
10dB Attenuator	Weinschel	4M-10	68-4-81-14- 003	43152	1	2020-7-6
10dB Attenuator	R&S	DNF	68-4-81-14- 004	DNF-001	1	2020-6-28
10dB Attenuator	R&S	DNF	68-4-81-14- 005	DNF-002	1	2020-6-28
10dB Attenuator	R&S	DNF	68-4-81-14- 006	DNF-003	1	2020-6-28
10dB Attenuator	R&S	DNF	68-4-81-14- 007	DNF-004	1	2020-6-28
Test software	Rohde & Schwarz	EMC32	68-4-48-14- 003-A10	Version 10.38.00	N/A	N/A
Test software	Tonscend	System for BT/WIFI	68-4-74-14- 006-A13	Version 2.5.77.0418	N/A	N/A
Shielding Room	TDK	TS8997	68-4-90-19- 003		1	2020-7-19



# 11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty					
Test Items	Extended Uncertainty				
Uncertainty for Radiated Spurious Emission 25MHz-3000MHz	Horizontal: 4.81dB; Vertical: 4.89dB;				
Uncertainty for Radiated Spurious Emission 3000MHz-18000MHz	Horizontal: 4.69dB; Vertical: 4.68dB;				
Uncertainty for Radiated Spurious Emission 18000MHz-40000MHz	Horizontal: 4.89dB; Vertical: 4.87dB;				
Uncertainty for Conducted RF test with TS 8997	RF Power Conducted: 1.16dB Frequency test involved: 0.6×10 <sup>-7</sup> or 1%				
Uncertainty Evaluation for Power Spectral Density Conducted measurement	1.17dB				
Uncertainty Evaluation for Spurious emissions Conducted measurement	1.43dB				
Uncertainty Evaluation for ACS and Blocking of Radiated method	4.11dB				
Uncertainty Evaluation for ACS, Blocking and Overloadind of Conducted method	0.831dB				
Uncertainty Evaluation for Sensitivity of Conducted method	0.816dB				
Uncertainty Evaluation for Sensitivity of Radiated method	2.29dB				
Uncertainty Evaluation for Humidity	0.936%				
Uncertainty Evaluation for Temperature	0.195 °C				