

## **FCC - TEST REPORT**

Report Number	:	68.912.19.0003.01	l	Date of Issue:	April 17, 2019
Model	:	8B-SS-ZF-H0			
Product Type	:	Water leak sensor			
Applicant	:	LEEDARSON LIG	HTING CC	)., LTD	
Address	:	Xingda Road, Xing	tai Industr	ial Zone, Chang	atai County, Zhangzhou,
		Fujian, China			
Production Facility	:	LEEDARSON LIG	HTING CC	)., LTD	
Address	:	Xingda Road, Xing	tai Industr	ial Zone, Chang	jtai County, Zhangzhou,
		Fujian, China			
Test Result	:	Positive	Negati	ve	
Total pages including Appendices	:	27			

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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
	Building 12&13, Zhiheng Wisdomland Business Park,
	Nantou Checkpoint Road 2, Nanshan District,
	Shenzhen City, 518052,
	P. R. China

FCC Registration 514049 Number:

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



## **3** Description of the Equipment under Test

Product:	Water leak sensor
Model no.:	8B-SS-ZF-H0
FCC ID:	2AB2Q8BSSZFH0
Rated Input:	3V DC (Battery AAA X 2)
RF Transmission	2405MHz-2480MHz
Frequency: No. of Operated Channel:	16
Modulation:	OQPSK
Antenna Type:	Integrated Antenna
Antenna Gain:	2.25dBi
Description of the EUT:	The Equipment Under Test (EUT) is a Water leak sensor supports 2.4GHz Zigbee function.



## 4 Summary of Test Standards

Test Standards		
FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES	
10-1-2017 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 Sub	FCC Part 15 Subpart C					
Test Condition		Pages	Test Result	Test Site		
§15.207	Conducted emission AC power port	See note 1	N/A			
§15.247(b)(1)	Conducted peak output power for FHSS		N/A			
§15.247(b)(3)	Conducted peak output power for DTS	13	Pass	Site 1		
§15.247(e)	Power spectral density	17	Pass	Site 1		
§15.247(a)(2)	6dB bandwidth	15	Pass	Site 1		
§15.247(a)(1)	20dB Occupied bandwidth		N/A			
§15.247(a)(1)	Carrier frequency separation		N/A			
§15.247(a)(1)(iii)	Number of hopping frequencies		N/A			
§15.247(a)(1)(iii)	Dwell Time		N/A			
§15.247(d)	Spurious RF conducted emissions	19	Pass	Site 1		
§15.247(d)	Band edge	23	Pass	Site 1		
§15.247(d) & §15.209 & §15.205	Spurious radiated emissions for transmitter	25	Pass	Site 1		
§15.203	Antenna requirement	See note 2	Pass			

Remark: N/A – Not Applicable.

Note 1: Not apply for battery operated device;

Note 2: The EUT uses an Integrated Antenna 2.25dBi max. According 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:2AB2Q8BSSZFH0 complies with Section 15.205, 15.209, 15.247 of the FCC Part 15, Subpart C Rules;

#### SUMMARY:

All tests according to the regulations cited on page 5 were

Performed

□ - Not Performed

The Equipment under Test

■ - Fulfills the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: January 30, 2019

Testing Start Date:

Testing End Date:

February 01, 2019

January 30, 2019

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch -Reviewed by: Prepared by: Tested by:

ausenthian

Laurent Yuan EMC Project Manager

Ü STIF

Henry Chen EMC Project Engineer

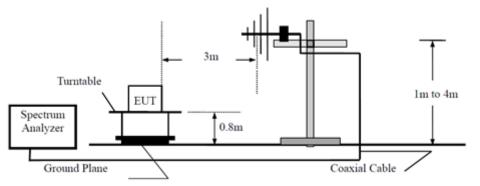
Louise Liu EMC Test Engineer



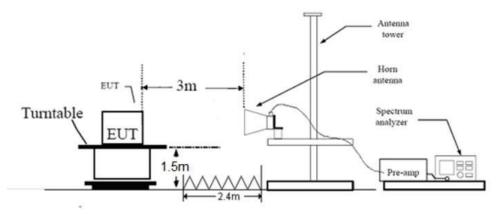
## 7 Test Setups

#### 7.1 Radiated test setups

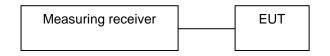
#### Below 1GHz



## Above 1GHz



## 7.2 Conducted RF test setups







## 8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION MANUFACTURER		MODEL NO.	S/N	
Laptop	DELL	Latitude 7480		

Test software information:

Test Software Version	UartAssis V3.8.3		
Modulation	Setting TX Power	Packet Type	
OQPSK	5dBm		

The system was configured to channel 11, 19, and 26 for the test.

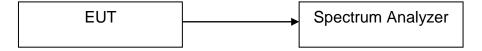
## 9 Technical Requirement

## 9.1 Conducted peak output power

#### **Test Method**

- 1. 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.
- Use the following spectrum analyzer settings: RBW≥DTS bandwidth, VBW≥3RBW, Sweep = auto, allow trace to fully stabilize. Detector function = peak, Trace = max hold
- 3. Repeat above procedure until other frequencies measured were completed.

#### **Test Setup**



#### Limits

According to §15.247 (b) (3), conducted 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 2405MHz	4.56	Pass
Middle channel 2445MHz	4.70	Pass
Bottom channel 2480MHz	4.81	Pass

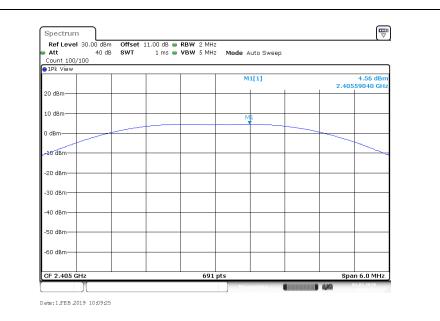
#### **Test Graphs**

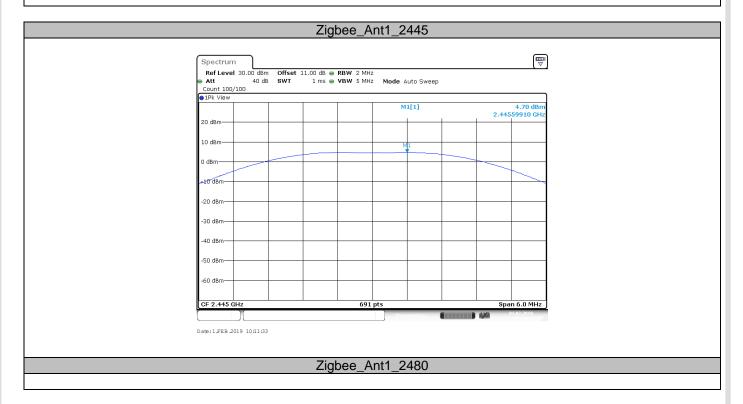
Zigbee\_Ant1\_2405

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#### TÜ Report Number: 68.912.19.0003.01 SUD ₽ Spectrum Ref Level 30.00 dBm Offset 11.00 dB RBW 2 MHz Att 40 dB SWT 1 ms VBW 5 MHz Mode Auto Sweep Count 100/100 1 ms VBW 5 MHz Mode Auto Sweep ●1Pk View M1[1] 4.81 dB 2.48047760 GF 20 dBm 10 dBm M1 0 dBm 10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm Span 6.0 MHz CF 2.48 G 691 **1** Date:1.FEB 2019 10:13:16



## 9.2 6dB bandwidth

#### **Test Method**

- 1. 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.
- Use the following spectrum analyzer settings: RBW=100K, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 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.
- 3. Allow the trace to stabilize, record the X dB Bandwidth value.
- 4. <u>Repeat above procedures until other frequencies measured were completed</u>.

Limit

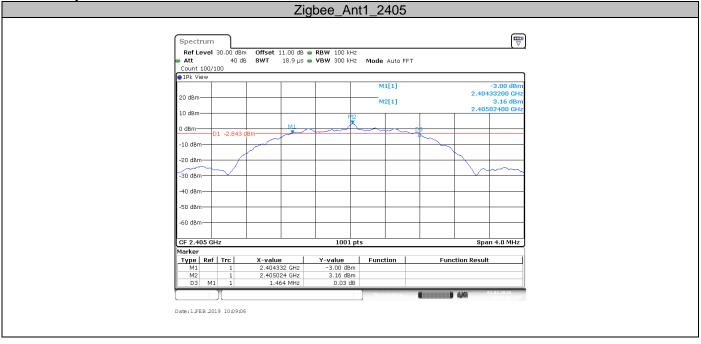
#### Limit [kHz]

≥500

#### **Test result**

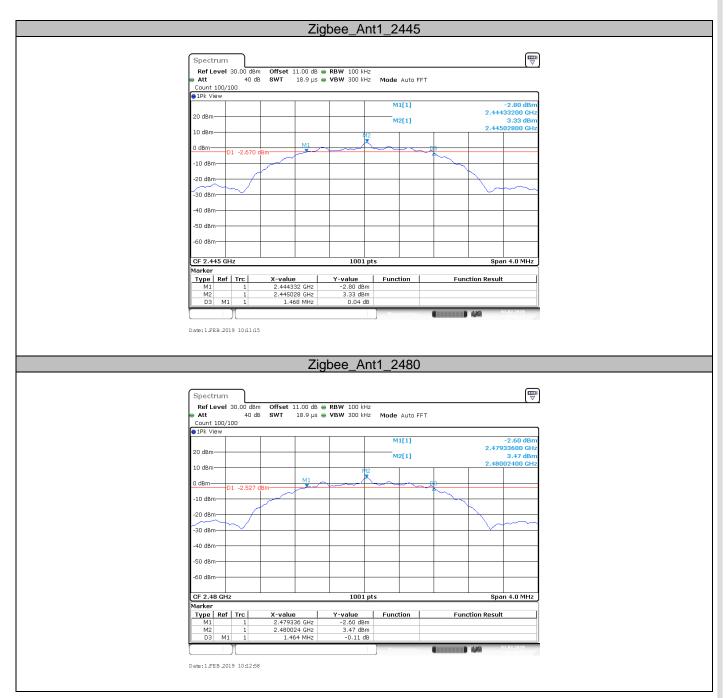
Test Mode	Channel (MHz)	Result (MHz)	Limit (KHz)	Verdict
Zigbee	2405	1.464	≥500	PASS
Zigbee	2445	1.468	≥500	PASS
Zigbee	2480	1.464	≥500	PASS

#### **Test Graphs**



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## 9.3 Power spectral density

#### **Test Method**

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

- 1. 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.
- Set analyzer center frequency to DTS channel center frequency. Set the RBW to 3 kHz ≤RBW ≤ 100 kHz., 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

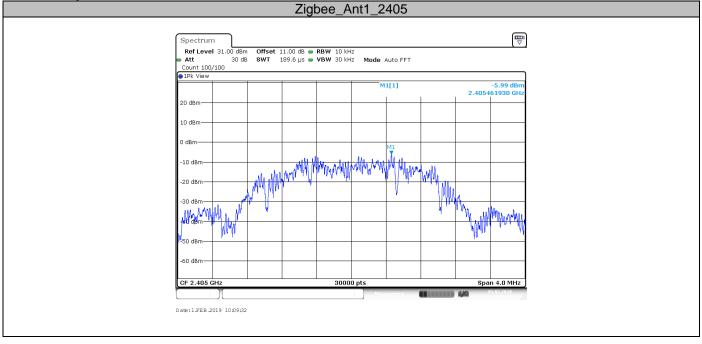
#### Limit [dBm]

≤8

#### **Test result**

Test Mode	Channel (MHz)	Result (dBm)	Limit	Verdict
Zigbee	2405	-5.99	8	PASS
Zigbee	2445	-5.53	8	PASS
Zigbee	2480	-5.62	8	PASS

#### **Test Graphs**

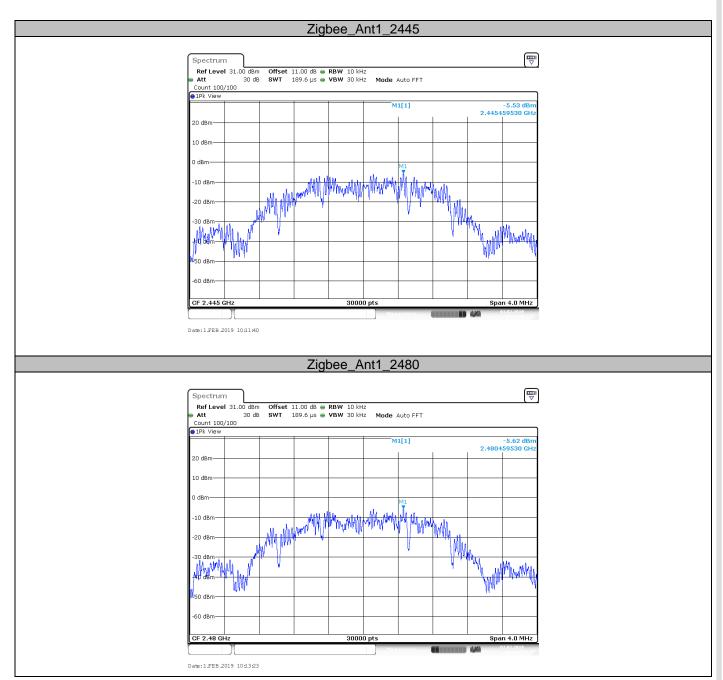


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## 9.4 Spurious RF conducted emissions

#### **Test Method**

- 1. 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 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

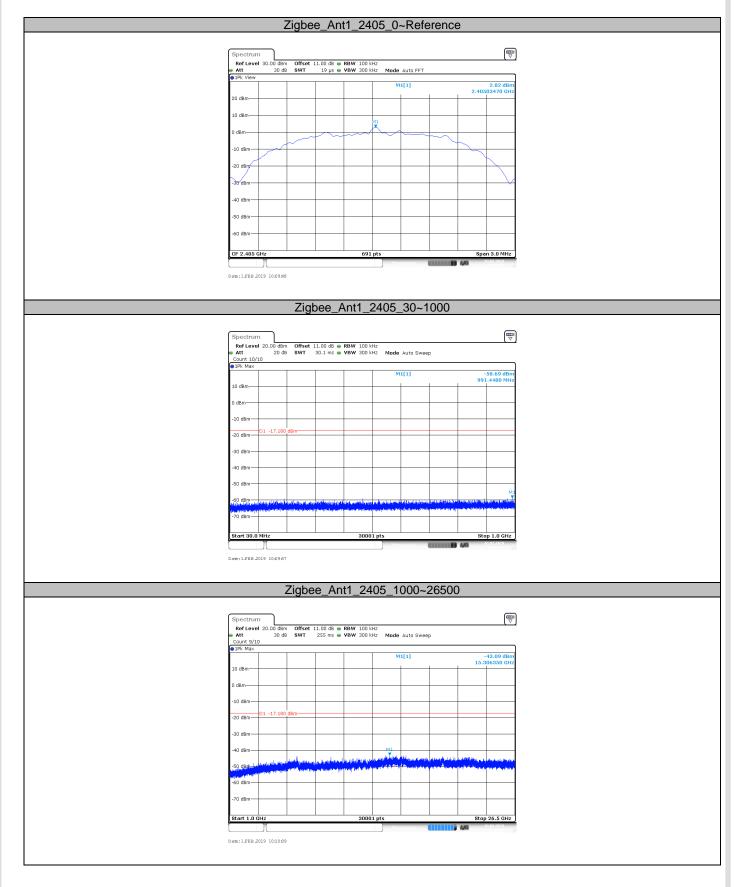
Frequency Range MHz	Limit (dBc)
30-25000	-20

#### **Test Result**

Test Mode	Channel (MHz)	Freq Range (MHz)	Result (dBm)	Limit (dBm)	Verdict	
Zigbee	2405	30~1000	-58.69	-17.18	PASS	
Zigbee	2405	1000~26500	-43.09	-17.18	PASS	
Zigbee	2445	30~1000	-58.41	-18.6	PASS	
Zigbee	2445	1000~26500	-43.59	-18.6	PASS	
Zigbee	2480	30~1000	-58.79	-17.07	PASS	
Zigbee	2480	1000~26500	-42.55	-17.07	PASS	

# TUV

## **Test Graphs**

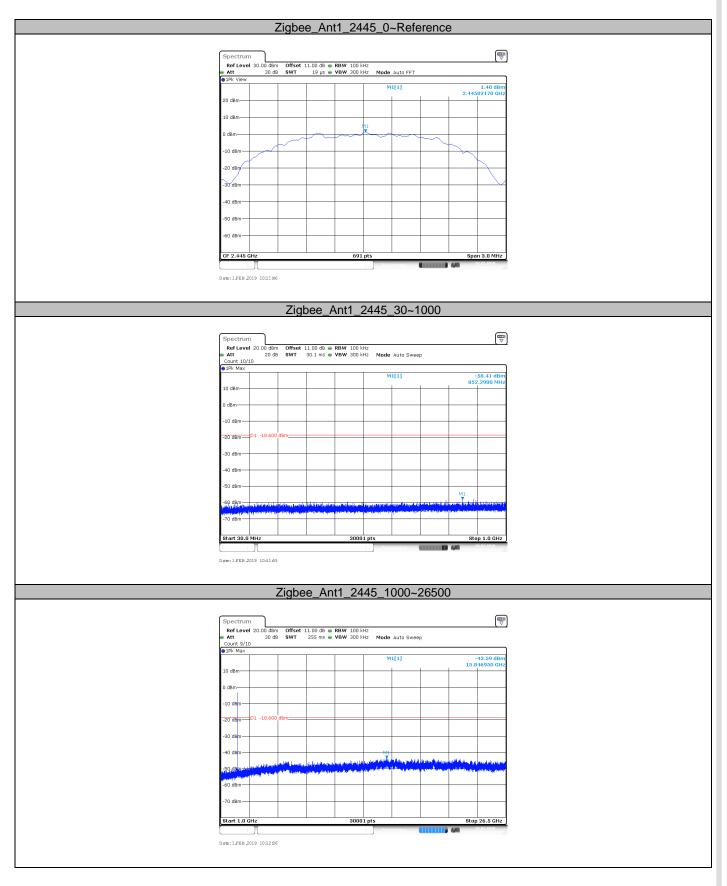


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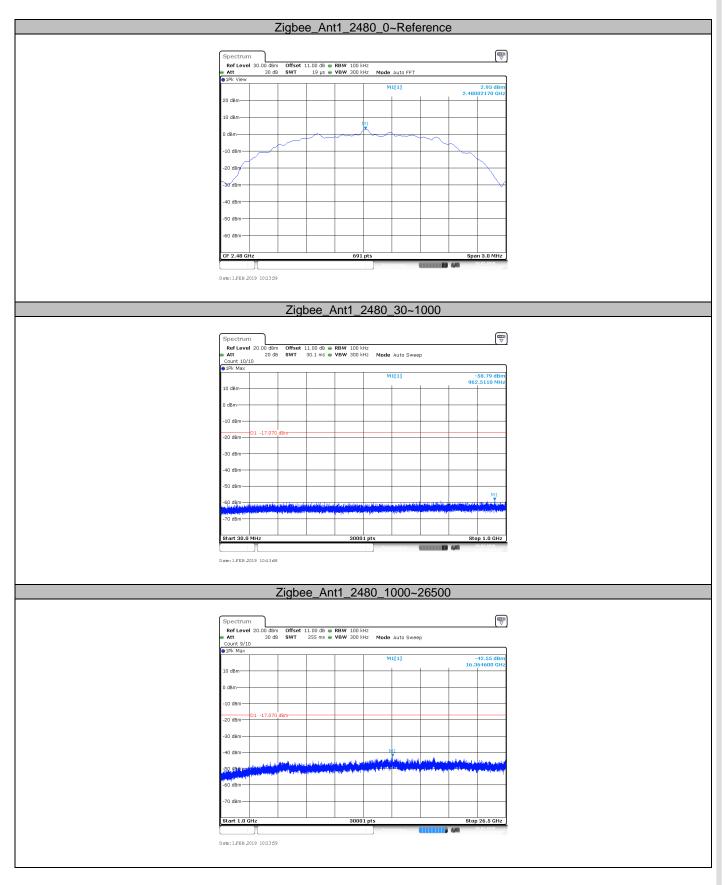


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## 9.5 Band edge

#### **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.
- 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, VBW ≥ RBW, Sweep = auto, Detector function = peak, Trace = max hold.
- 3 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 4 The level displayed must comply with the limit specified in this Section.

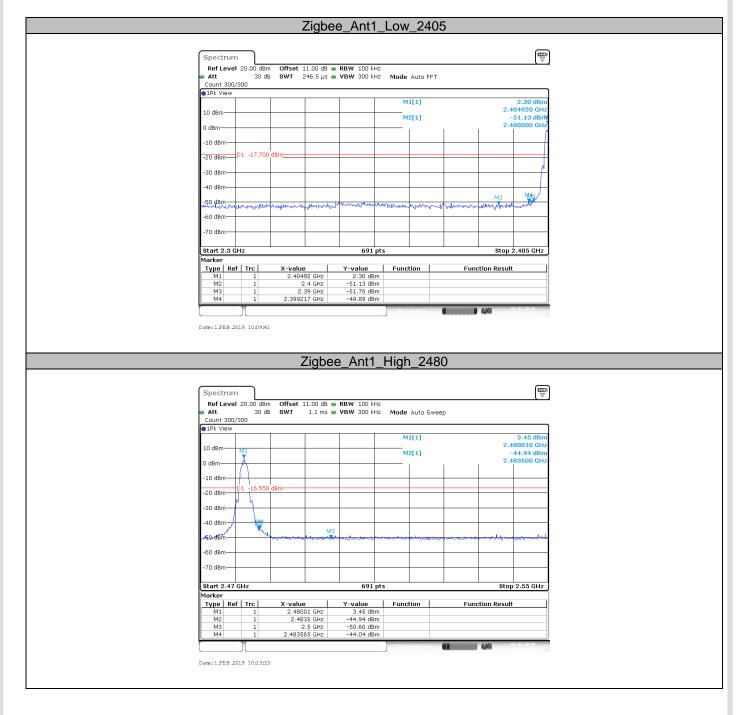
#### Limit

Fro	equency Range MHz	Limit (dBc)
	30-25000	-20

#### Test result

Test Mode	Ch Name	Channel (MHz)	Result (dBm)	Limit	Verdict
Zigbee	Low	2405	-49.89	-17.7	PASS
Zigbee	High	2480	-44.04	-16.55	PASS

## **Test Graphs**



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SUD



## 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 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 and VBW = 10Hz for average measurement, Sweep = auto, Detector function = peak, Trace = max hold.

measurement, Sweep = auto, Detector function = peak, Tra

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, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

#### Note:

1: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Quasi-peak detection (QP) at frequency below 1GHz.

2: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for peak detection (PK) at frequency above 1GHz.

3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average ((duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor (20log(1/duty cycle)).

4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.



#### Limit

The radio emission outside the operating frequency band shall be at least 20 dB below that in the 100kHz 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	



#### Spurious radiated emissions for transmitter

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.

#### Transmitting spurious emission test result as below:

2405N	IHz (30MHz –							
	Frequency	Emission	Polarization	Limit	Margin	Detector	Corr.	Result
	MHz	Level dBuV/m		dBµV/m	dB		dB	
	870.936111	30.14	Horizontal	46.00	15.86	QP	-15.9	Pass
	884.085000	28.54	Vertical	46.00	17.46	QP	-15.8	Pass
2405N	IHz (Above 10	,						
	Frequency	Emission Level	Polarization	i Limit	Margin	Detector	Corr.	Result
	MHz	dBuV/m		dBµV/m	dB		dB/m	
	7637.812500*	42.11	Horizontal	74.00	31.89	PK	9.7	Pass
	10657.500000*	41.70	Vertical	74.00	32.30	PK	10.4	Pass
2445N		100-1						
244310	IHz (30MHz –	Emission						
	Frequency	Level	Polarization	Limit	Margin	Detector	Corr.	Result
	MHz	dBuV/m	•	dBµV/m	dB		dB	
			Horizontal			QP		Pass
			Vertical			QP		Pass
24451	IHz (Above 10	C□->)						
244310		Emission					-	
	Frequency	Level	Polarization	Limit	Margin	Detector	Corr.	Result
	MHz	dBuV/m		dBµV/m	dB		dB/m	
	4880.156250*	50.18	Horizontal	74.00	23.82	PK	3.8	Pass
	4880.156250*	49.34	Vertical	74.00	24.66	PK	3.8	Pass
2480M	IHz (30MHz –	- 1GHz)						
2.000	Frequency	Emission	Polarization	Limit	Margin	Detector	Corr.	Result
		Level			-	Delector		Nesuit
	MHz	dBuV/m		dBµV/m	dB 		dB	Deee
			Horizontal Vertical			QP QP		Pass Pass
			venical			QF		F 855
2480N	IHz (Above 10	GHz)						
	Frequency	Émission	Polarization	Limit	Margin	Detector	Corr.	Result
	MHz	Level dBuV/m		dBµV/m	dB		dB/m	
	4960.312500*	51.30	Horizontal	74.00	22.70	PK	4.3	Pass
	4960.312500*	51.62	Vertical	74.00	22.38	PK	4.3	Pass

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#### Remark:

- (1) "\*" means the emission(s) appear within the restrict bands shall follow the requirement of section 15.205.
- (2) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are the noise floor or attenuated more than 10dB below the permissible limits or the field strength is too small to be measured.
- (3) Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain.
- (4) Below 1GHz: Corrector factor = Antenna Factor + Cable Loss.



## **10 Test Equipment List**

#### **Radiated Emission Test**

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	101269	2019-7-6
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	2019-6-28
Horn Antenna	Rohde & Schwarz	HF907	102294	2019-6-28
Pre-amplifier	Rohde & Schwarz	SCU 18	102230	2019-7-6
Signal Generator	Rohde & Schwarz	SMY01	839369/005	2019-7-6
Attenuator	Agilent	8491A	MY39264334	2019-7-6
3m Semi-anechoic chamber	TDK	9X6X6		2020-7-7
Test software	Rohde & Schwarz	EMC32	Version 9.15.00	N/A

## **RF conducted Test**

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Signal Generator	Rohde & Schwarz	SMB100A	108272	2019-7-6
Vector Signal Generator	Rohde & Schwarz	SMBV100A	262825	2019-7-6
Communication Synthetical Test Instrument	Rohde & Schwarz	CMW 270	101251	2019-5-31
Signal Analyzer	Rohde & Schwarz	FSV40	101030	2019-7-6
Vector Signal Generator	Rohde & Schwarz	SMU 200A	105324	2019-7-6
RF Switch Module	Rohde & Schwarz	OSP120/OSP-B157	101226/100851	2019-7-6
Power Splitter	Weinschel	1580	SC319	2019-7-5
10dB Attenuator	Weinschel	56-10	58764	2019-7-6
10dB Attenuator	R&S	DNF	DNF-001	2019-7-6
10dB Attenuator	R&S	DNF	DNF-002	2019-7-6
10dB Attenuator	R&S	DNF	DNF-003	2019-7-6
10dB Attenuator	R&S	DNF	DNF-004	2019-7-6
Test software	Test software Rohde & Schwarz		Version 10.38.00	N/A
Test software	Tonscend	System for BT/WIFI	Version 2.6	N/A



## **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				
Items	Extended Uncertainty			
Uncertainty for Radiated Emission in 3m chamber 30MHz-1000MHz	Horizontal: 4.91dB; Vertical: 4.89dB;			
Uncertainty for Radiated Emission in 3m chamber 1000MHz- 18000MHz	Horizontal: 4.80dB; Vertical: 4.79dB;			
Uncertainty for Conducted RF test with TS 8997	RF Power Conducted: 1.16dB Frequency test involved: 0.6×10 <sup>-7</sup> or 1%			