

FCC/IC - TEST REPORT

Report Number	:	68.940.18.0037.0	1	Date of Issue:	October 31, 2018		
Model	<u>:</u>	SLP-M411BX8GWW					
Product Type	<u>:</u>	Smart Lighting Modu	ule				
Applicant	<u>:</u>	TCL Technoly Electr	onics (Huiz	hou) Co., Ltd.			
Address	<u>:</u>	Section 37, Zhongka	ai High-tech	Development Zone,	516006 Huizhou City,		
		Guangdong Province	e, PEOPLE	'S REPUBLIC OF CH	HINA		
Manufacturer	<u>:</u>	Samsung Electronic	s Co., Ltd.				
Address	<u>:</u>	#129, Samsung-ro,	Yeongtong-	gu, Suwon-si, Gyeon	nggi-do 16677,		
		REPUBLIC OF KOR	REA				
Production Facility	<u>:</u>	TCL Technoly Electr	onics (Huiz	hou) Co., Ltd.			
Address	<u>:</u>	Section 37, Zhongka	ai High-tech	Development Zone,	516006 Huizhou City,		
		Guangdong Province	e, PEOPLE	'S REPUBLIC OF CH	HINA		
Test Result	:	■ Positive	□ Negati	ve			
Total pages including Appendices	:	32					

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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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FCC Registration

Number:

514049

IC Registration

Number:

10320A-1

Telephone:

86 755 8828 6998

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3 Description of the Equipment under Test

Product Smart Lighting Module

PMN: Smart Lighting Module

Model no. SLP-M411BX8GWW

HVIN: SLP-M411BX8GWW

IC: 9976A-IOTSBD32

FCC ID: ZVA-IOT-S-BD32

Rated Input: 100-277VAC, 50/60Hz, 100mA

RF Transmission 2402MHz-2480MHz

Frequency:

No. of Operated Channel: 40

Modulation: GFSK

Antenna Type: Integrated Antenna

Antenna Gain: 2dBi

Description of the EUT: The Equipment Under Test (EUT) is a Smart Lighting Module

supports 2.4GHz Bluetooth functions.



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			
RSS-Gen Issue 5 April 2018	RSS-Gen — General Requirements for Compliance of Radio Apparatus			
RSS-247 Issue 2 February 2017	Digital Transmission Systems (DTS), Frequency Hopping Systems (FHSS) and License-Exempt Local Area Network (LE-LAN) Devices			

All the test methods were according to KDB558074 D01 DTS Meas Guidance v05 and ANSI C63.10 (2013).



5 Summary of Test Results

	Technical Requirements						
FCC Part 15 Subpart C/RSS-247 Issue 2/RSS-Gen Issue 5							
Test Condition			Pages	Test Result	Test Site		
§15.207	RSS-GEN 8.8	Conducted emission AC power port	10	Pass	Site 1		
§15.247(b)(1)	RSS-247 Clause 5.4(b)	Conducted AV output power for FHSS		N/A			
§15.247(b)(3)	RSS-247 Clause 5.4(d)	Conducted AV output power for DTS	13	Pass	Site 1		
§15.247(e)	RSS-247 Clause 5.2(b)	Power spectral density	19	Pass	Site 1		
§15.247(a)(2)	RSS-247 Clause 5.2(a)	6dB bandwidth	15	Pass	Site 1		
§15.247(a)(1)	RSS-247 Clause 5.1(a)	20dB Occupied bandwidth		N/A			
	RSS-GEN 6.7	99% Occupied Bandwidth	17	Pass	Site 1		
§15.247(a)(1)	RSS-247 Clause 5.1(b)	Carrier frequency separation		N/A			
§15.247(a)(1)(i ii)	RSS-247 Clause 5.1(d)	Number of hopping frequencies		N/A			
§15.247(a)(1)(i ii)	RSS-247 Clause 5.1(d)	Dwell Time		N/A			
§15.247(d)	RSS-247 Clause 5.5	Spurious RF conducted emissions	21	Pass	Site 1		
§15.247(d)	RSS-247 Clause 5.5	Band edge	25	Pass	Site 1		
§15.247(d) & §15.209 & §15.205	RSS-247 Clause 5.5 & RSS-GEN 6.13 RSS-GEN 8.9 RSS-GEN 8.10	Spurious radiated emissions for transmitter	27	Pass	Site 1		
§15.203	RSS-GEN 6.8	Antenna requirement	See note 1	Pass			

Remark 1: N/A - Not Applicable.

Note 1: The EUT uses an Integrated Metal Antenna 0.5dBi 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:ZVA-IOT-S-BD32 and IC:9976AIOTSBD32 complies with Section 15.207, 15.205, 15.209, 15.247 of the FCC Part 15, Subpart C Rules; RSS-Gen Issue 5 and RSS-247 issue 2.

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: October 09, 2018

Testing Start Date: October 09, 2018

Testing End Date: October 16, 2018

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

Prepared by:

Tested by:

Laurent Yuan EMC Project Manager

ausenthian

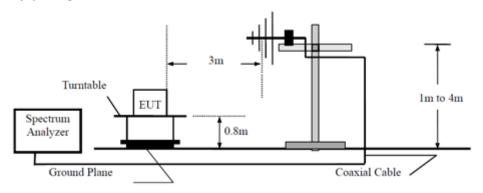
Henry Chen EMC Project Engineer Louise Liu EMC Test Engineer



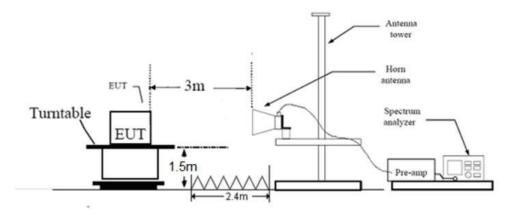
7 Test Setups

7.1 Radiated test setups

Below 1GHz



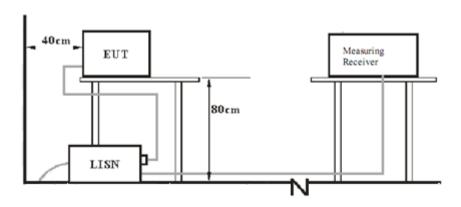
Above 1GHz



7.2 Conducted RF test setups



7.3 AC Power Line Conducted Emission test setups





8 Systems test configuration

Auxiliary Equipment Used during Test:

Description	Manufacturer	Model no.	S/N

Test software information:

Test Software Version	Bluetooth Signaling 1 V3.7.30 from CMW 270		
Modulation	Setting TX Power	Packet Type	
GFSK	1	/	

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



9 Technical Requirement

9.1 Conducted Emission

Test Method

- 1. The EUT was placed on a table, which is 0.8m above ground plane
- 2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
- 3. Maximum procedure was performed to ensure EUT compliance
- 4. A EMI test receiver is used to test the emissions from both sides of AC line

Limit

Frequency	QP Limit	AV Limit
MHz	dΒμV	dΒμV
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Decreasing line

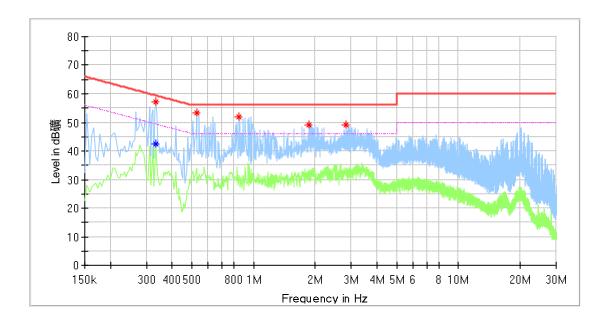


Conducted Emission

Product Type : Smart Lighting Module M/N : SLP-M411BX8GWW

Operating Condition : Normal working with transmitting

Test Specification : Power Line, Live Comment : AC 120V/60Hz



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.334000	57.07		59.35	2.29	L1	10.2
0.334000		42.37	49.35	6.98	L1	10.2
0.526000	53.33		56.00	2.67	L1	10.3
0.850000	51.99		56.00	4.01	L1	10.3
1.870000	49.15		56.00	6.85	L1	10.3
2.826000	49.18		56.00	6.82	L1	10.3

Final_Result

Frequency	QuasiPeak	Average	Limit	Margin	Line	Corr.
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dB)		(dB)

Remark: "*" Correct factor=cable loss + LISN factor

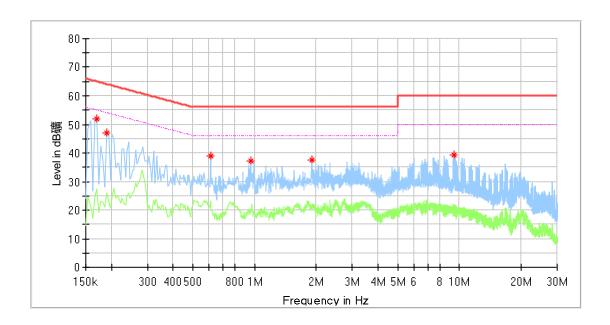


Conducted Emission

Product Type : Smart Lighting Module M/N : SLP-M411BX8GWW

Operating Condition : Normal working with transmitting

Test Specification : Power Line, Neutral Comment : AC 120V/60Hz



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.170000	51.87		64.96	13.09	N	10.2
0.190000	47.00		64.04	17.04	N	10.2
0.610000	38.84		56.00	17.16	N	10.3
0.958000	37.34		56.00	18.66	N	10.3
1.898000	37.42		56.00	18.58	N	10.3
9.386000	39.14		60.00	20.86	N	10.7

Final_Result

Frequency	QuasiPeak	Average	Limit	Margin	Line	Corr.
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dB)		(dB)

Remark: "*" Correct factor=cable loss + LISN factor

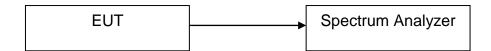


9.2 Conducted AV output power

Test Method

- 1. Setting the highest output power level of the EUT:
- 2. Connect to gated spectrum analyzer.

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

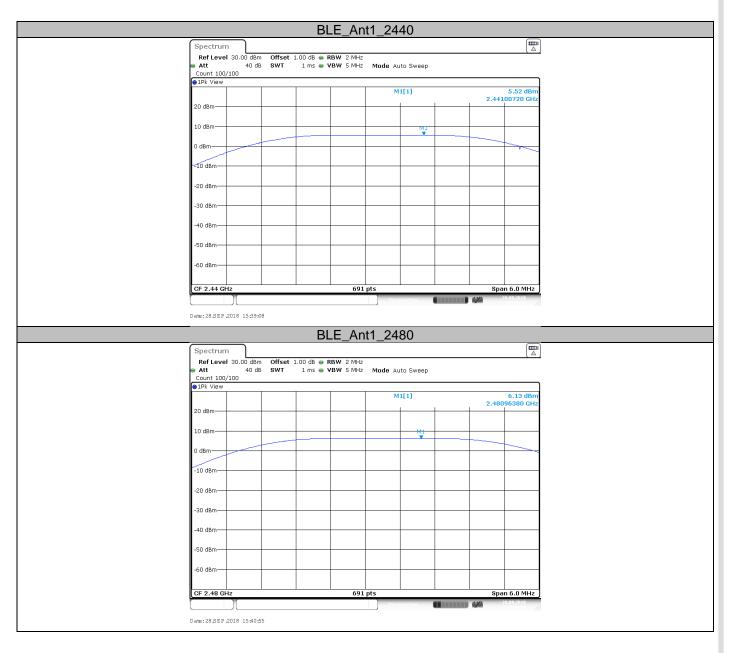
Test result as below table

Frequency MHz	Conducted AV Output Power dBm	Result
Top channel 2402MHz	5.10	Pass
Middle channel 2440MHz	5.52	Pass
Bottom channel 2480MHz	6.13	Pass

Test Graphs









9.3 6dB bandwidth

Test Method

- Use the following spectrum analyzer settings:
 RBW=100K, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 2. 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.

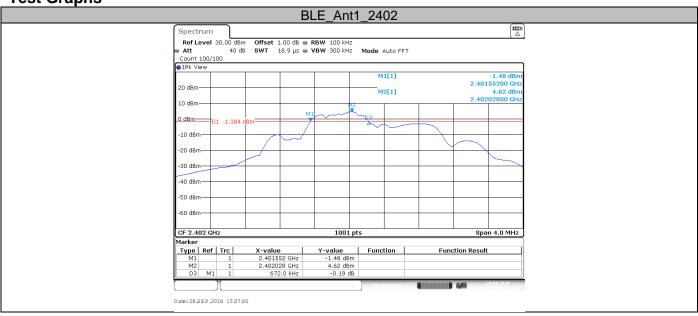
Limit

Limit [kHz]	
≥500	

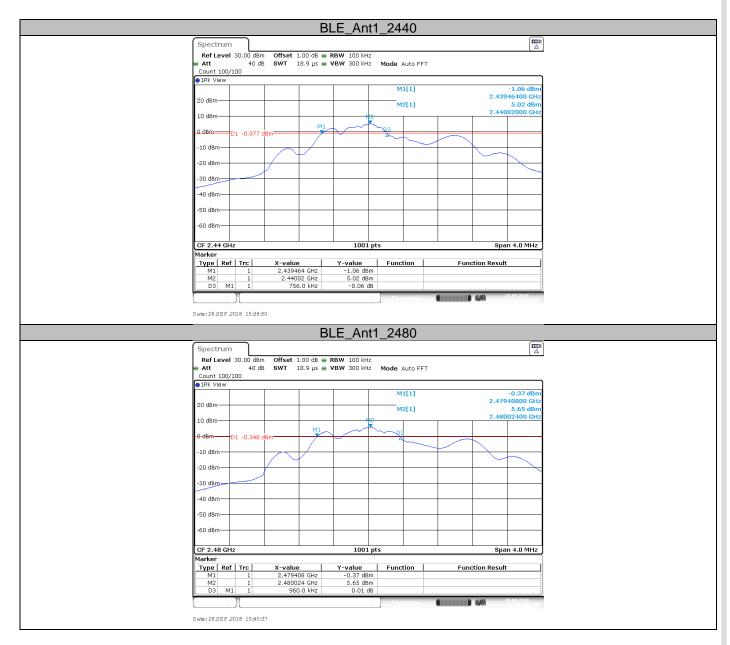
Test result

Test Mode	Channel (MHz)	Result (MHz)	Limit (KHz)	Verdict
BLE	2402	0.672	≥500	PASS
BLE	2440	0.756	≥500	PASS
BLE	2480	0.960	≥500	PASS

Test Graphs









9.4 99% bandwidth

Test Method

- Use the following spectrum analyzer settings:
 RBW=100K, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 2. Use the automatic bandwidth measurement capability of an instrument, may be employed using the OBW bandwidth mode.
- 3. Allow the trace to stabilize, record the OBW Bandwidth value.

Limit

Limit [kHz]

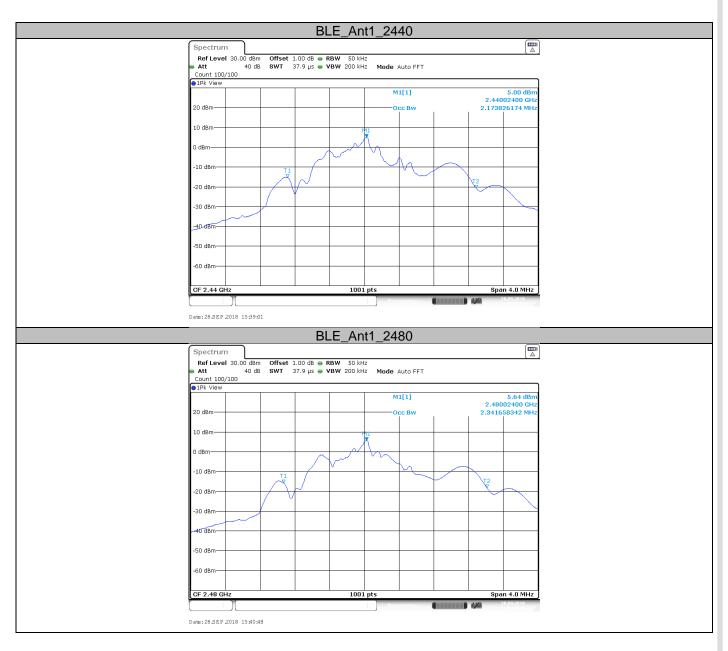
Test result

Test Mode	Channel (MHz	Result (MHz)	Limit	Verdict
BLE	2402	1.93		PASS
BLE	2440	2.174		PASS
BLE	2480	2.342		PASS

Test Graphs









9.5 Power spectral density

Test Method

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

- Set analyzer center frequency to DTS channel center frequency. RBW=100kHz,VBW≥3RBW,Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto,
 - Trace= max hold.
- 2. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
- 3. Repeat above procedures until other frequencies measured were completed.

Limit

Lim	nit [dBm]
	≤8

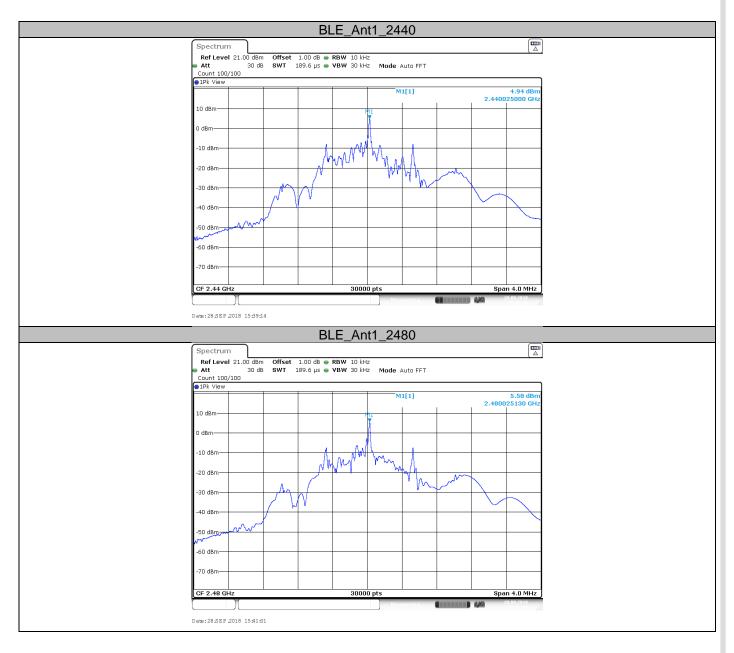
Test result

Test Mode	Channel (MHz)	Result (dBm)	Limit	Verdict
BLE	2402	4.53	8	PASS
BLE	2440	4.94	8	PASS
BLE	2480	5.58	8	PASS

Test Graphs









9.6 Spurious RF conducted emissions

Test Method

- 1. 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.
- 2. 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.
- 3. Repeat above procedures until other frequencies measured were completed.

Limit

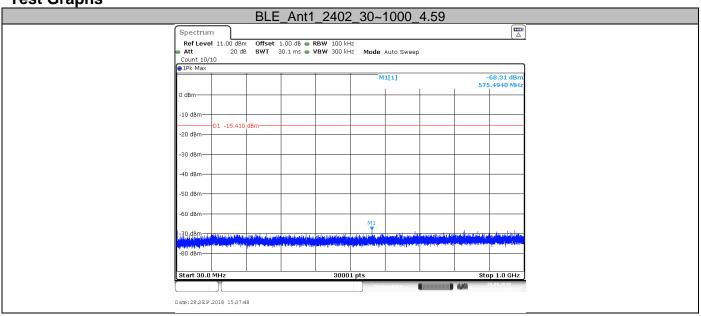
Frequency Range MHz	Limit (dBc)
30-25000	-20

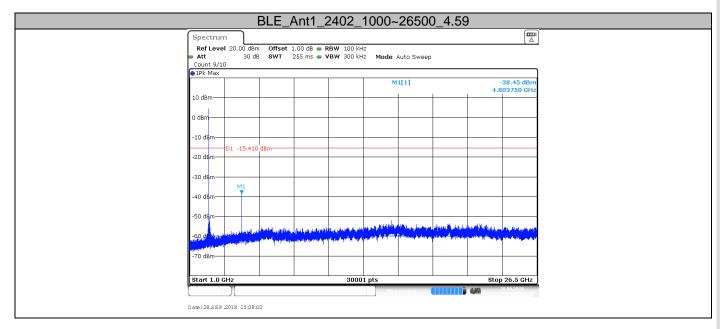
Test Result

-					
Test Mode	Channel (MHz)	Freq Range (MHz)	Result (dBm)	Limit (dBm)	Verdict
BLE	2402	30~1000	-68.31	-15.41	PASS
BLE	2402	1000~26500	-38.5	-15.41	PASS
BLE	2440	30~1000	-69.04	-15	PASS
BLE	2440	1000~26500	-40.57	-15	PASS
BLE	2480	30~1000	-69.13	-14.36	PASS
BLE	2480	1000~26500	-41.79	-14.36	PASS

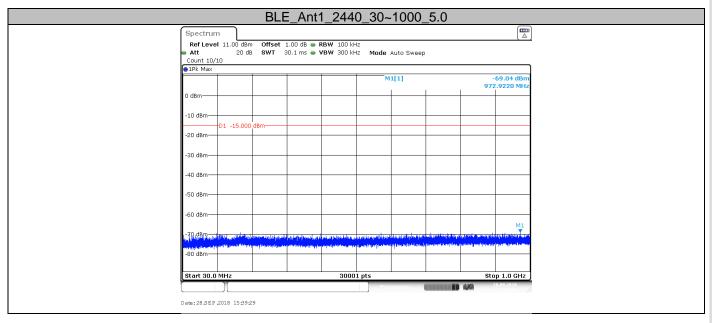


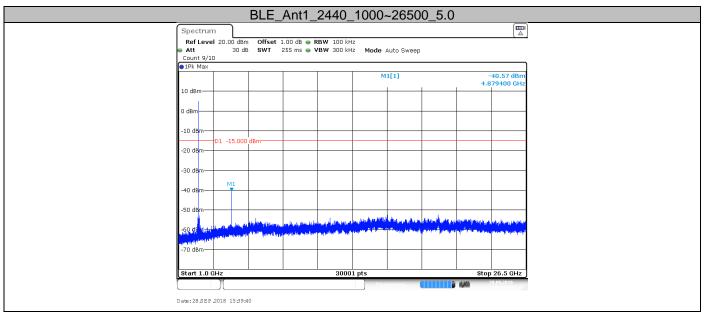
Test Graphs



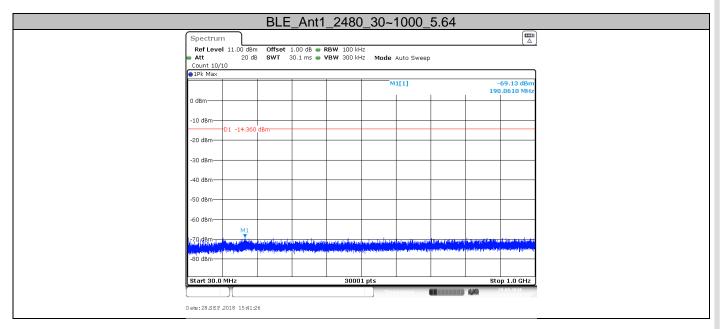


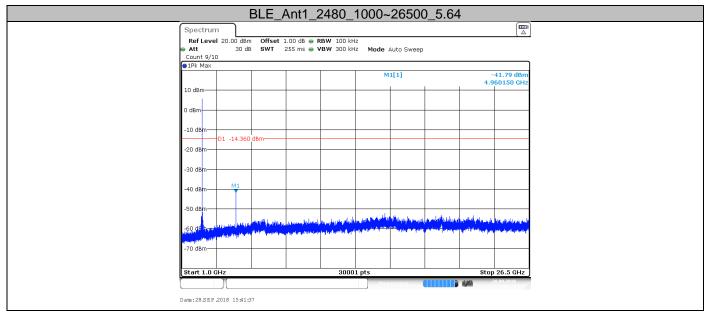














9.7 Band edge

Test Method

- 1 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.
- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section.

Limit

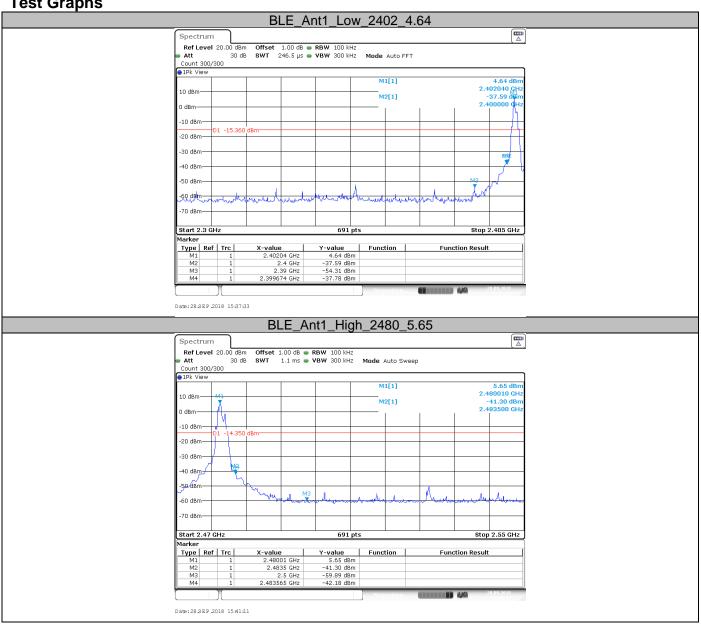
Frequency Range MHz	Limit (dBc)
30-25000	-20

Test result

Test Mode	Ch Name	Channel (MHz)	Result (dBm)	Limit	Verdict
BLE	Low	2402	-37.78	-15.36	PASS
BLE	High	2480	-42.18	-14.35	PASS



Test Graphs





9.8 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.

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 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



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:

2402MHz (30MHz - Frequency	- 1GHz) Emission Level	Polarization	Limit	Margin	Detector	Corr.	Result
MHz	dBuV/m		dΒμV/m	dB		dB	
119.994444*	36.56	Horizontal	43.50	6.94	QP	-29.5	Pass
119.994444*	32.29	Vertical	43.50	11.21	QP	-29.5	Pass
2402MHz (Above 10							
Frequency	Emission Level	Polarization	Limit	Margin	Detector	Corr.	Result
MHz	dBuV/m		dBµV/m	dB		dB/m	
1599.750000*	33.70	Horizontal	74.00	40.30	PK	-10.6	Pass
1888.625000	32.28	Vertical	74.00	41.72	PK	-9.4	Pass
2440MHz (30MHz -	- 1GHz)						
Frequency	Emission Level	Polarization	Limit	Margin	Detector	Corr.	Result
MHz	dBuV/m		dΒμV/m	dB		dB	
		Horizontal			QP		Pass
		Vertical			QP		Pass
2440MHz (Above 10	GHz)						
Frequency	Emission Level	Polarization	Limit	Margin	Detector	Corr.	Result
MHz	dBuV/m		dBµV/m	dB		dB/m	
1888.687500	34.42	Horizontal	74.00	39.58	PK	-9.4	Pass
1498.812500*	30.16	Vertical	74.00	43.84	PK	-11.0	Pass
2480MHz (30MHz –	- 1GHz)						
Frequency	Emission Level	Polarization	Limit	Margin	Detector	Corr.	Result
MHz	dBuV/m		dΒμV/m	dB		dB	
		Horizontal			QP		Pass
		Vertical			QP		Pass
2480MHz (Above 10	GHz)						
Frequency	Emission Level	Polarization	Limit	Margin	Detector	Corr.	Result
MHz	dBuV/m		dBμV/m	dB		dB/m	
1599.375000*	34.58	Horizontal	74.00	39.42	PK	-10.6	Pass
	3 1.00	1.0112011101					
2398.750000	36.17	Vertical	74.00	37.83	PK	-5.6	Pass



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

Conducted Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 3	101782	2019-7-6
LISN	Rohde & Schwarz	ENV4200	100249	2019-7-6
LISN	Rohde & Schwarz	ENV432	101318	2019-7-6
LISN	Rohde & Schwarz	ENV216	100326	2019-7-6
ISN	Rohde & Schwarz	ENY81	100177	2019-7-6
ISN	Rohde & Schwarz	ENY81-CA6	101664	2019-7-6
High Voltage Probe	Rohde & Schwarz	TK9420(VT94 20)	9420-584	2019-6-30
RF Current Probe	Rohde & Schwarz	EZ-17	100816	2019-6-30
Attenuator	Shanghai Huaxiang	TS2-26-3	080928189	2019-7-6
Test software	Rohde & Schwarz	EMC32	Version9.15.00	N/A

TS8997 Test System

Jossi Test System	T			T
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	Rohde & Schwarz	EMC32	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 Spurious Emission 25MHz-3000MHz	Horizontal: 4.80dB; Vertical: 4.87dB;			
Uncertainty for Radiated Spurious Emission 3000MHz-18000MHz	Horizontal: 4.59dB; Vertical: 4.58dB;			
Uncertainty for Radiated Spurious Emission 18000MHz-40000MHz	Horizontal: 5.05dB; Vertical: 5.04dB;			
Uncertainty for Conducted RF test with TS 8997	Power level test involved: 1.16dB Frequency test involved: 0.6×10 ⁻⁷			
Uncertainty for Conducted Emission 150kHz-30MHz (for test using AMN ENV432 or ENV4200)	3.21dB			