

FCC C2PC Test Report

FCC ID : SQG-SU60SOMC

Equipment : 802.11ac Professional Wi-Fi + BT5.0 Module

: SU60-SOMC (453-00003) Model No.

SU60-SOMC-2G (453-00004)

(please refer to section 1.1.1 for more details.)

Brand Name : Laird Connectivity

Applicant : Laird Connectivity, LLC

Address : W66N220 Commerce Court Cedarburg WI

53012 United States Of America (Excluding

The States Of Alaska)

Standard : 47 CFR FCC Part 15.247

Received Date : Aug. 26, 2021

Tested Date : Aug. 31 ~ Sep. 02, 2021

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Approved by: Reviewed by:

Along Cheld/ Assistant Manager Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
FR841101-05AE	Rev. 01	Initial issue	Oct. 05, 2021

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Summary of Test Results

FCC Rules Test Items		Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.402MHz 35.05 (Margin -12.76dB) - AV	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 46.49MHz 30.85 (Margin -9.15dB) - PK	Pass
15.247(b)(3)	Maximum Output Power	Power [dBm]: 8.50	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

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1 General Description

1.1 Information

This report is prepared for FCC class II change.

This report is issued as a supplementary report to the original project no. FR841101AE. The modification is concerned with following:

- ♦ Revised brand name, Applicant and address.
- ♦ Changed U1 to RT5170A for lower suspend mode current.
- Added C87 for solve the co-location issue with LTE.

Therefore, related test items had been performed and presented in the following sections.

1.1.1 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description		
Laird Connectivity	SU60-SOMC (453-00003)	802.11ac Professional Wi-Fi + BT5.0 Module	2G/1G MCP		
Laird Connectivity	SU60-SOMC-2G (453-00004)	802. Frac Professional WI-FI + BT5.0 Module -	4G/2G MCP		
The above models, both options were assessed and SU60-SOMC-2G (453-00004) was found to be worst case and was selected for the final testing.					

1.1.2 Specification of the Equipment under Test (EUT)

RF General Information						
Frequency Range (MHz) Bluetooth (MHz) Channel Number Data Rate						
2400-2483.5	V4.2 LE	2402-2480	0-39 [40]	1 Mbps		
Note 1: Bluetooth LE (Low energy) uses GFSK modulation.						

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	3.3Vdc from host

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1.1.4 Accessories

Brand	Model	Туре	Connector	Gain (dBi)
LSR	001-0009	Dipole	IPEX U.FL	2
Laird	NanoBlade-IP04	PCB Dipole	IPEX U.FL	2
Laird	MAF95310 Mini NanoBlade Flex	PCB Dipole	IPEX U.FL	2.79
LSR	FlexPIFA 001-0016	PIFA	IPEX U.FL	2.5
Ethertroni cs	WLAN_1000146	Magnetic Dipole	IPEX U.FL	2.5
Laird	MIMO FlexPIFA Antenna	PIFA	IPEX U.FL	2
LSR	001-0009 (with filter)	Dipole	IPEX U.FL	2

1.1.5 Accessories

	Accessories					
No.	Equipment	Description				
1	AC Adapter	Brand Name: I.T.E POWER SUPPLY Model Name: MU12AY120100-A1 Power Rating: I/P: 100-240Vac, 50/60Hz, 0.3A O/P: 12Vdc, 1A Power Line: 1.48m non-shielded cable w/o core				

1.1.6 Channel List

	Frequency band (MHz)				2400~2	2483.5	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
37	2402	9	2422	18	2442	28	2462
0	2404	10	2424	19	2444	29	2464
1	2406	38	2426	20	2446	30	2466
2	2408	11	2428	21	2448	31	2468
3	2410	12	2430	22	2450	32	2470
4	2412	13	2432	23	2452	33	2472
5	2414	14	2434	24	2454	34	2474
6	2416	15	2436	25	2456	35	2476
7	2418	16	2438	26	2458	36	2478
8	2420	17	2440	27	2460	39	2480

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1.1.7 Test Tool and Duty Cycle

Test tool	Putty, Version:0.60.0.0
Duty cycle of test signal (%)	64.35%
Duty Factor (dB)	1.91

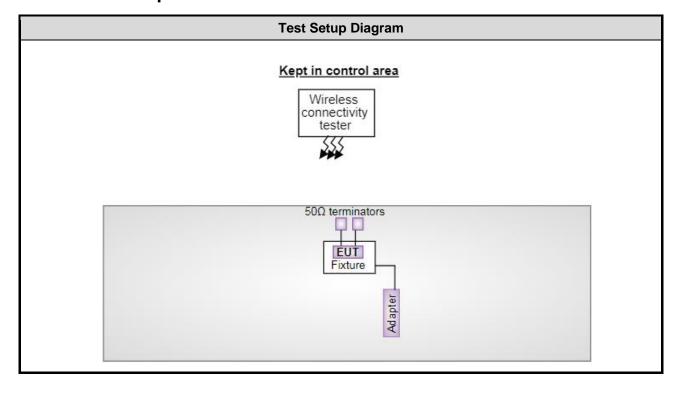
1.1.8 Power Index of Test Tool

Madulation Mada	Test Frequency (MHz)			
Modulation Mode	2402	2440	2480	
BT LE-1Mbps	default	default	default	

1.2 Local Support Equipment List

	Support Equipment List						
No. Equipment Brand Model FCC ID Remarks							
1	Wireless connectivity tester	R&S	CMW270	DoC			

1.3 Test Setup Chart



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1.4 Test Equipment List and Calibration Data

Conducted Emission				
Conduction room 1 / (CO01-WS)			
Sep. 02, 2021				
Brand	Model No.	Serial No.	Calibration Date	Calibration Until
R&S	ESR3	101658	Feb. 08, 2021	Feb. 07, 2022
R&S	ENV216	101579	Mar. 17, 2021	Mar. 16, 2022
Woken	CFD200-NL	CFD200-NL-001	Oct. 21, 2020	Oct. 20, 2021
AUDIX	e3	6.120210k	NA	NA
	Sep. 02, 2021 Brand R&S R&S Woken	Conduction room 1 / (CO01-WS) Sep. 02, 2021 Model No. R&S ESR3 R&S ENV216 Woken CFD200-NL	Conduction room 1 / (CO01-WS) Sep. 02, 2021 Model No. Serial No. R&S ESR3 101658 R&S ENV216 101579 Woken CFD200-NL CFD200-NL-001	Conduction room 1 / (CO01-WS) Sep. 02, 2021 Brand Model No. Serial No. Calibration Date R&S ESR3 101658 Feb. 08, 2021 R&S ENV216 101579 Mar. 17, 2021 Woken CFD200-NL CFD200-NL-001 Oct. 21, 2020

966 chamber1 / (03CH Aug. 31, 2021 Brand	101-WS)						
, , , , , , , , , , , , , , , , , , ,		•	966 chamber1 / (03CH01-WS)				
Brand							
	Model No.	Serial No.	Calibration Date	Calibration Until			
R&S	ESR3	101657	Mar. 12, 2021	Mar. 11, 2022			
R&S	FSV40	101498	Dec. 04, 2020	Dec. 03, 2021			
R&S	HFH2-Z2	100330	Nov. 17, 2020	Nov. 16, 2021			
SCHWARZBECK	VULB9168	VULB9168-522	Jun. 30, 2021	Jun. 29, 2022			
SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 11, 2020	Dec. 10, 2021			
SCHWARZBECK	BBHA 9170	BBHA 9170508	Dec. 31, 2020	Dec. 30, 2021			
EMC	EMC02325	980225	Jun. 29, 2021	Jun. 28, 2022			
Agilent	83017A	MY39501308	Sep. 26, 2020	Sep. 25, 2021			
EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022			
KOAX KABEL	101354-BW	101354-BW	Oct. 06, 2020	Oct. 05, 2021			
Woken	CFD400NL-LW	CFD400NL-001	Oct. 06, 2020	Oct. 05, 2021			
EMC	EMCCFD400-NW-N W-11000	200801	Oct. 06, 2020	Oct. 05, 2021			
EMC	EMCCFD400-NM-N M-1000	160502	Oct. 06, 2020	Oct. 05, 2021			
HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 06, 2020	Oct. 05, 2021			
HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 06, 2020	Oct. 05, 2021			
AUDIX	e3	6.120210g	NA	NA			
	R&S SCHWARZBECK SCHWARZBECK SCHWARZBECK EMC Agilent EMC KOAX KABEL Woken EMC EMC HUBER+SUHNER HUBER+SUHNER AUDIX	R&S HFH2-Z2 SCHWARZBECK VULB9168 SCHWARZBECK BBHA 9120 D SCHWARZBECK BBHA 9170 EMC EMC02325 Agilent 83017A EMC EMC184045B KOAX KABEL 101354-BW Woken CFD400NL-LW EMC EMCCFD400-NW-N W-11000 EMC EMCCFD400-NM-N M-1000 HUBER+SUHNER SUCOFLEX104 HUBER+SUHNER SUCOFLEX104	R&S HFH2-Z2 100330 SCHWARZBECK VULB9168 VULB9168-522 SCHWARZBECK BBHA 9120 D BBHA 9120 D 1096 SCHWARZBECK BBHA 9170 BBHA 9170508 EMC EMC02325 980225 Agilent 83017A MY39501308 EMC EMC184045B 980192 KOAX KABEL 101354-BW 101354-BW Woken CFD400NL-LW CFD400NL-001 EMC EMCCFD400-NW-N W-11000 200801 EMC EMCCFD400-NM-N M-1000 160502 HUBER+SUHNER SUCOFLEX104 MY16019/4 HUBER+SUHNER SUCOFLEX104 MY16014/4 AUDIX e3 6.120210g	R&S HFH2-Z2 100330 Nov. 17, 2020 SCHWARZBECK VULB9168 VULB9168-522 Jun. 30, 2021 SCHWARZBECK BBHA 9120 D BBHA 9120 D 1096 Dec. 11, 2020 SCHWARZBECK BBHA 9170 BBHA 9170508 Dec. 31, 2020 EMC EMC02325 980225 Jun. 29, 2021 Agilent 83017A MY39501308 Sep. 26, 2020 EMC EMC184045B 980192 Jul. 14, 2021 KOAX KABEL 101354-BW 101354-BW Oct. 06, 2020 Woken CFD400NL-LW CFD400NL-001 Oct. 06, 2020 EMC EMCCFD400-NW-N W-1 W-11000 200801 Oct. 06, 2020 EMC EMCCFD400-NM-N M-1000 160502 Oct. 06, 2020 HUBER+SUHNER SUCOFLEX104 MY16019/4 Oct. 06, 2020 HUBER+SUHNER SUCOFLEX104 MY16014/4 Oct. 06, 2020 AUDIX e3 6.120210g NA			

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Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Aug. 31, 2021				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Apr. 19, 2021	Apr. 18, 2022
Power Meter	Anritsu	ML2495A	1241002	Nov. 04, 2020	Nov. 03, 2021
Power Sensor	Anritsu	MA2411B	1207366	Nov. 04, 2020	Nov. 03, 2021
Measurement Software	Sporton-	SENSE-15247_FS	V5.10.7.11	NA	NA
Wireless connectivity tester	R&S	CMW270	100856	Nov. 02, 2020	Nov. 01, 2021
Note: Calibration Inter	val of instruments liste	d above is one year.			

1.5 Test Standards

47 CFR FCC Part 15.247 ANSI C63.10-2013

1.6 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty				
Parameters	Uncertainty			
Bandwidth	±34.130 Hz			
Conducted power	±0.808 dB			
Power density	±0.583 dB			
Conducted emission	±2.715 dB			
AC conducted emission	±2.92 dB			
Radiated emission ≤ 1GHz	±3.41 dB			
Radiated emission > 1GHz	±4.59 dB			

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2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

FCC Designation No.: TW2732FCC site registration No.: 181692

➤ ISED#: 10807A

➤ CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Mode	Test Frequency (MHz)	Data Rate	Test Configuration
AC Power Line Conducted Emissions Radiated Emissions ≤ 1GHz Radiated Emissions > 1GHz	BT LE	2402	1Mbps	
Band edge	BT LE	2480	1Mbps	
Maximum Output Power	BT LE	2402, 2440, 2480	1Mbps	

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **X-plane** results were found as the worst case and were shown in this report.

2. 50Ω terminator is connected to antenna port of EUT for radiated emission measurement.

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3 Transmitter Test Results

3.1 Conducted Emissions

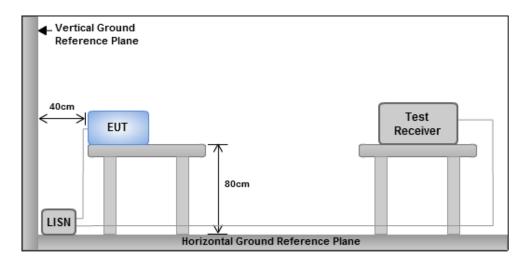
3.1.1 Limit of Conducted Emissions

Conducted Emissions Limit					
Frequency Emission (MHz) Quasi-Peak Average					
0.15-0.5	66 - 56 *	56 - 46 *			
0.5-5	56	46			
5-30 60 50					
Note 1: * Decreases with the logarithm of the frequency.					

3.1.2 Test Procedures

- 1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
- 2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
- 3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
- 4. This measurement was performed with AC 120V/60Hz

3.1.3 Test Setup



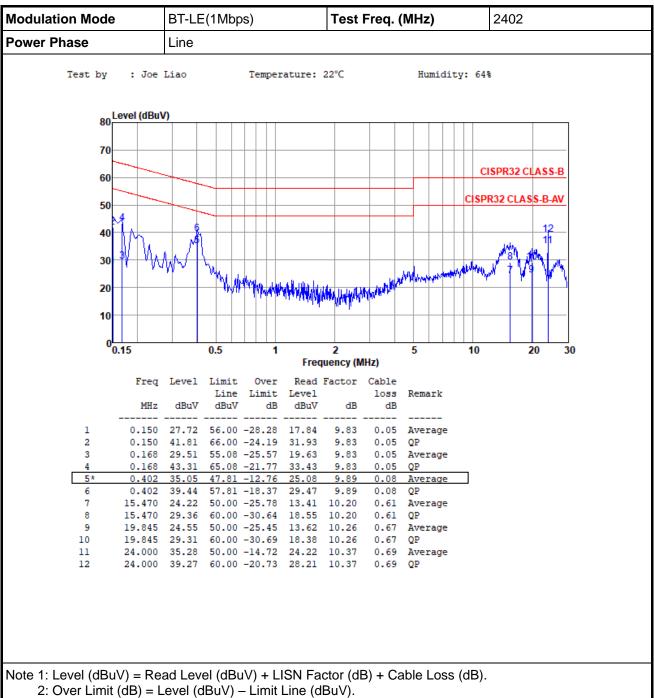
Note: 1. Support units were connected to second LISN.

Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

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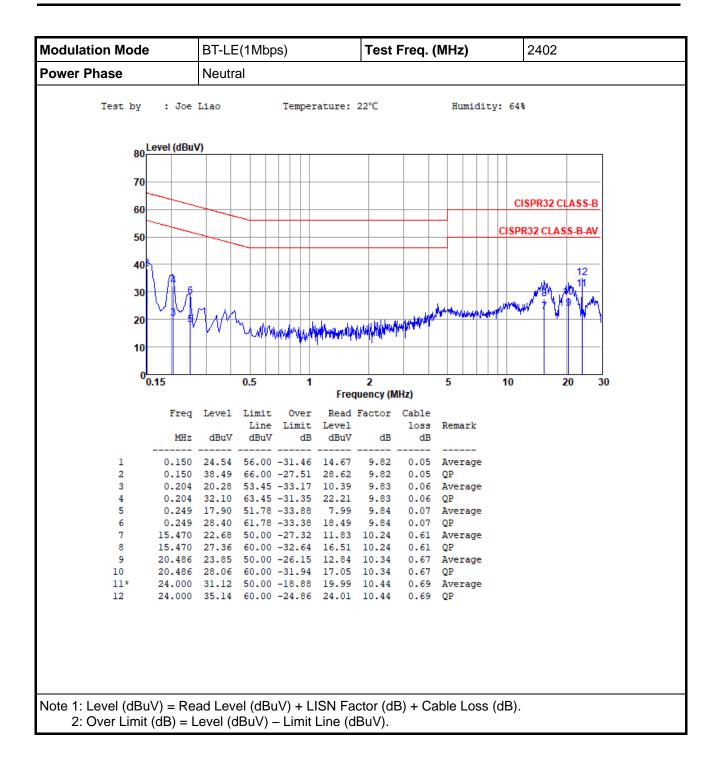


3.1.4 **Test Result of Conducted Emissions**



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3.2 RF Output Power

3.2.1 Limit of RF Output Power

Conducted power shall not exceed 1Watt.

Antenna gain <= 6dBi, no any corresponding reduction is in output power limit.

3.2.2 Test Procedures

A broadband RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

3.2.3 Test Setup



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3.2.4 Test Result of Maximum Output Power

Ambient Condition	24°C / 66%	Tested By	Aska Huang
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Summary of Peak Conducted Output Power

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	8.50	0.00708

Result

Mode	Result	Antenna Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.79	8.50	30.00
2440MHz	Pass	2.79	8.15	30.00
2480MHz	Pass	2.79	7.70	30.00

Summary of Conducted (Average) Output Power

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	8.45	0.00700

Result

rtoouit				
Mode	Result	Antenna Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.79	8.45	-
2440MHz	Pass	2.79	8.10	-
2480MHz	Pass	2.79	7.68	-

Note: Average power is for reference only.

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3.3 Emissions in Restricted Frequency Bands

3.3.1 Limit of Emissions in Restricted Frequency Bands

Restricted Band Emissions Limit						
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)			
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300			
0.490~1.705	24000/F(kHz)	33.8 - 23	30			
1.705~30.0	30	29	30			
30~88	100	40	3			
88~216	150	43.5	3			
216~960	200	46	3			
Above 960	500	54	3			

Note 1:

Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.3.2 Test Procedures

- 1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
- 2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
- 3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

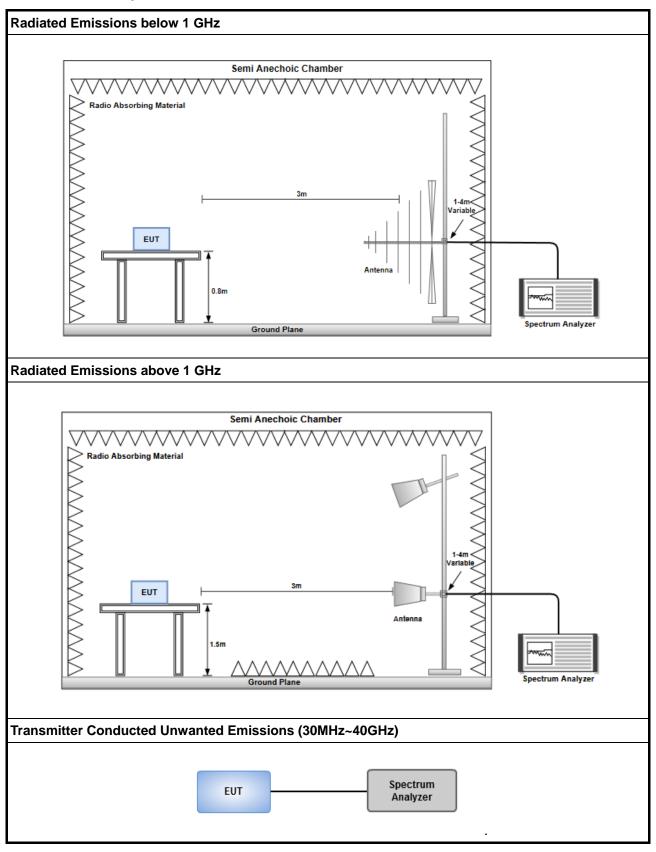
Note:

- 1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
- 2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
- RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

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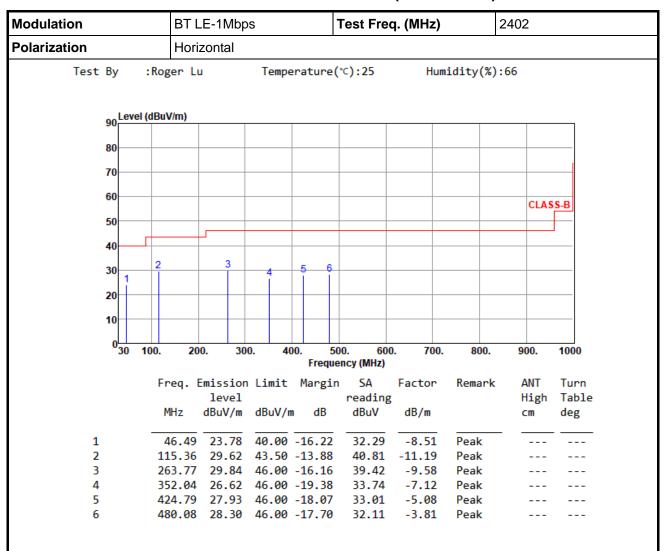
3.3.3 Test Setup



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3.3.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

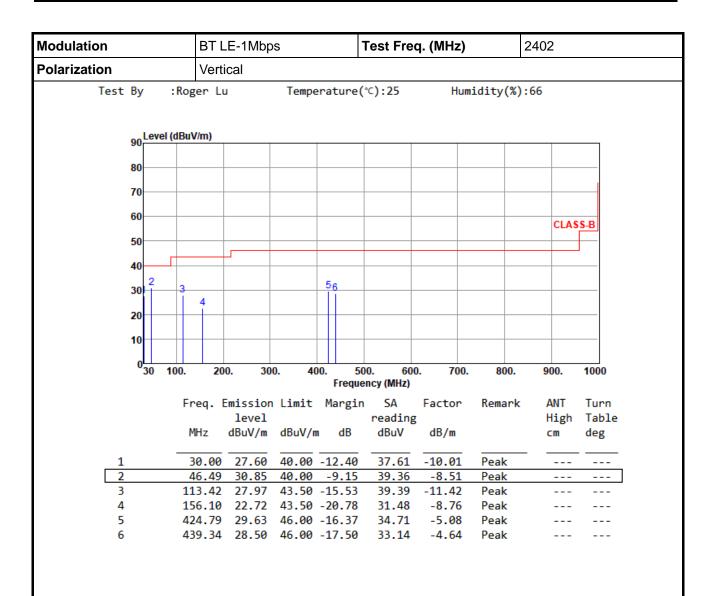
*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

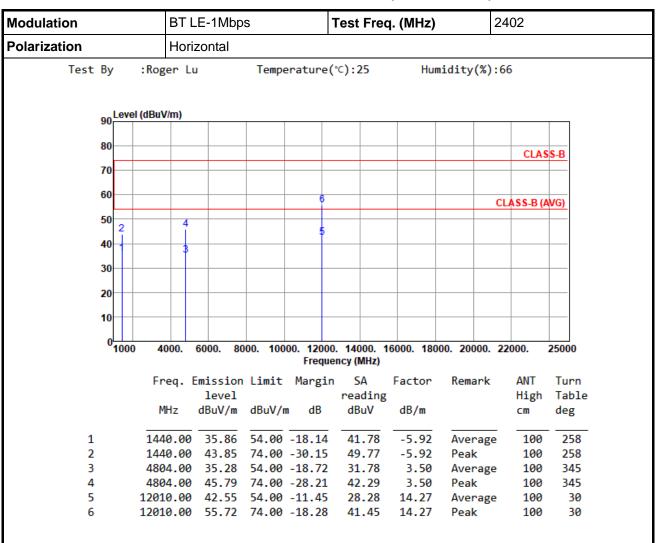
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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3.3.5 Transmitter Radiated Unwanted Emissions (Above 1GHz)



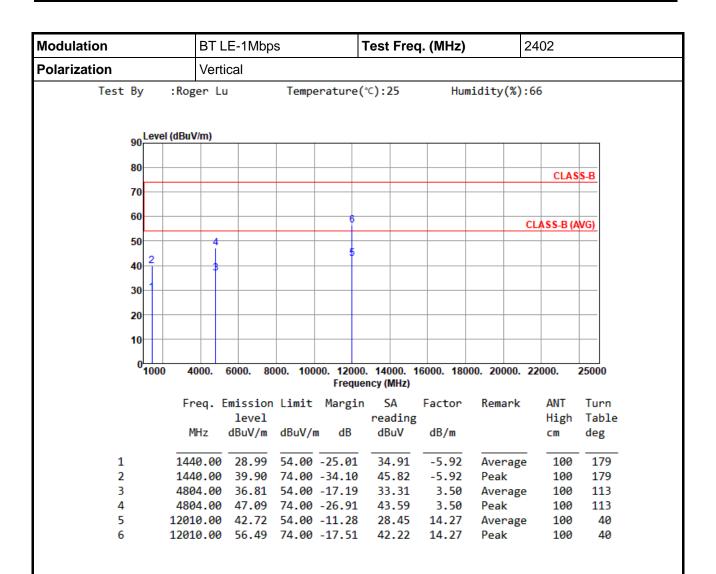
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

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^{*}Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).





Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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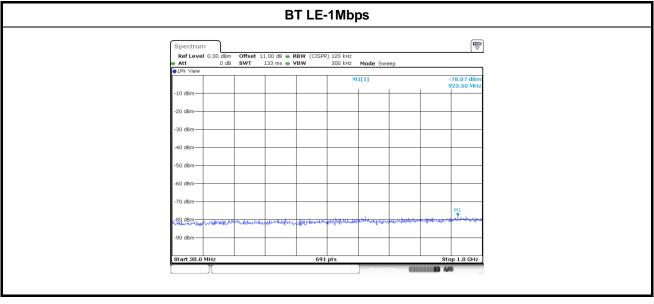
3.3.6 Transmitter Conducted Unwanted Emissions (Below 1 GHz)

Ambient Condition	24°C / 66%	Tested By	Aska Huang
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Modulati	ion Mode	de BT LE-1Mbps		Frequency		
Range (MHz)	Max Value (dBm)	DG (dBi)	GRF (dB)	EIRP (dBm)	Min E-Field Limit (dBm)	E-Field Margin (dB)
30~1000	-78.07	2.79	4.70	-70.58	-55.20	-15.38

Note:

- 1. GRF = Ground Reflection Factor.
- 2. DG = Directional Gain.
- 3. Worst case of emission limit below 1GHz is selected to be limit.

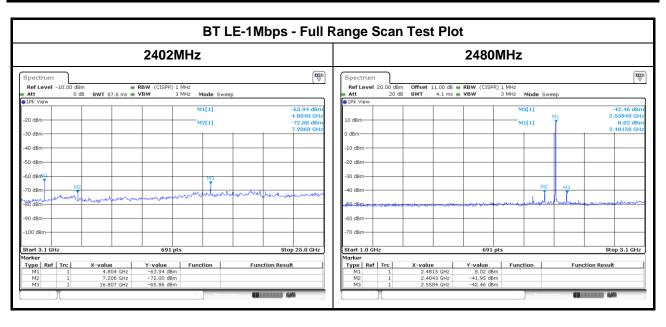


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3.3.7 Transmitter Conducted Unwanted Emissions (Above 1GHz)

Ambient Condition24°C / 66%Tested ByAska Huang

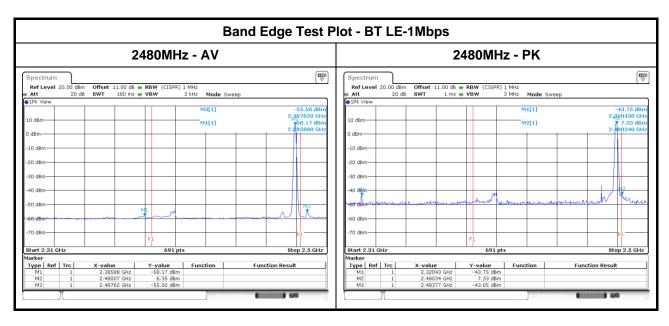


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Transmitter Conducted Unwanted Emissions Results in Band Edge							
Modulation Mode BT LE-1Mbps							
Test ch. Freq. (MHz)	Range (MHz)	Max Value (dBm)	DG (dBi)	EIRP (dBm)	E-Field Limit (dBm)	E-Field Margin (dB)	Remark
2480	2310~2390	-43.75	2.79	-40.96	-21.20	-19.76	PK
	2310~2390	-58.17	2.79	-55.38	-41.20	-14.18	AV
	2483.5~2500	-43.05	2.79	-40.26	-21.20	-19.06	PK
	2483.5~2500	-55.50	2.79	-52.71	-21.20	-31.51	AV

Note: DG = Directional Gain.



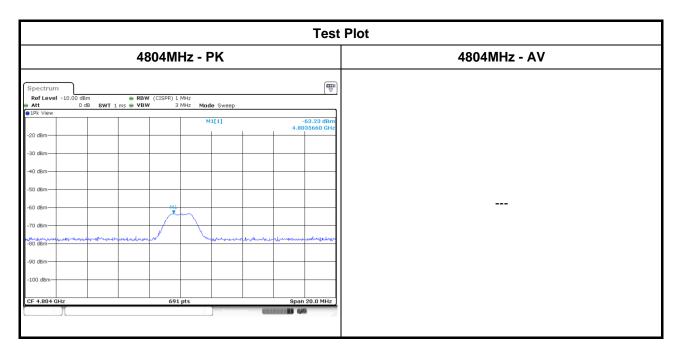
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Transmitter Conducted Unwanted Emissions Results in Restricted Frequency Band						
Modulat	ion Mode	BT LE-1Mbps		Frequency	2402MHz	
Freq. (MHz)	Remark	Max Value (dBm)	DG (dBi)	EIRP (dBm)	E-Field Limit (dBuV/m)	E-Field Margin (dB)
4804.00	PK	-63.23	2.79	-60.44	-21.20	-39.24
4804.00	AV	-	2.79	-	-41.20	-

Note

- 1. If the PK margin greater than 20 dB, there is no need to get AVG reading.
- 2. DG = Directional Gain.



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4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website http://www.icertifi.com.tw.

Linkou

Tel: 886-2-2601-1640 No.30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan (R.O.C.)

Kwei Shan

Tel: 886-3-271-8666
No.3-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640 No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 333, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666 Fax: 886-3-318-0155

Email: ICC Service@icertifi.com.tw

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