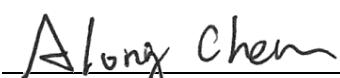


FCC Test Report

FCC ID : XNAWBS09
Equipment : Withings Body Pro
Model No. : WBS09
Brand Name : Withings
Applicant : Withings SA
Address : 2 rue Maurice Hartmann
92130 Issy-Les-Moulineaux
France
Standard : 47 CFR FCC Part 15.247
Received Date : Feb. 04, 2021
Tested Date : Mar. 09 ~ Mar. 22, 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.

Reviewed by:



Along Chen / Assistant Manager

Approved by:



Gary Chang / Manager



Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Local Support Equipment List	7
1.3	Test Setup Chart	7
1.4	Test Equipment List and Calibration Data.....	8
1.5	Test Standards	9
1.6	Reference Guidance	9
1.7	Deviation from Test Standard and Measurement Procedure.....	9
1.8	Measurement Uncertainty	9
2	TEST CONFIGURATION.....	10
2.1	Testing Facility.....	10
2.2	The Worst Test Modes and Channel Details	10
3	TRANSMITTER TEST RESULTS.....	11
3.1	6dB and Occupied Bandwidth	11
3.2	RF Output Power.....	15
3.3	Power Spectral Density	17
3.4	Emissions in Restricted Frequency Bands.....	21
3.5	Emissions in non-restricted Frequency Bands.....	31
4	TEST LABORATORY INFORMATION	34

Release Record

Report No.	Version	Description	Issued Date
FR132501AE	Rev. 01	Initial issue	Apr. 26, 2021

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	Note ¹	N/A
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 4880.00MHz 52.27 (Margin -1.73dB) - AV	Pass
15.247(b)(3)	Maximum Output Power	Power [dBm]: 3.72	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

N/A means Not Applicable.
Note¹: The EUT consumes DC power, so the test is not required.

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.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

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

1.1.2 Antenna Details

Ant. No.	Brand	Model	Type	Connector	Gain (dBi)	Remarks
1	BROADCOM	BCM9Fractal	PCB	N/A	2.8	---

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	6Vdc (AAA battery x4)
-------------------	-----------------------

1.1.4 Accessories

N/A

1.1.5 Test Sample Information

MAC Number of Test Sample	Radiated Emission: 00:24:E4:C7:25:77 Antenna Port Conducted: 00:24:E4:C7:25:2D
---------------------------	---

1.1.6 Channel List

Frequency band (MHz)				2400~2483.5			
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

1.1.7 Test Tool and Duty Cycle

Test Tool	Tera Term, Version: V4.8	
Duty Cycle and Duty Factor	Duty Cycle (%)	Duty Factor (dB)
	67.76	1.69

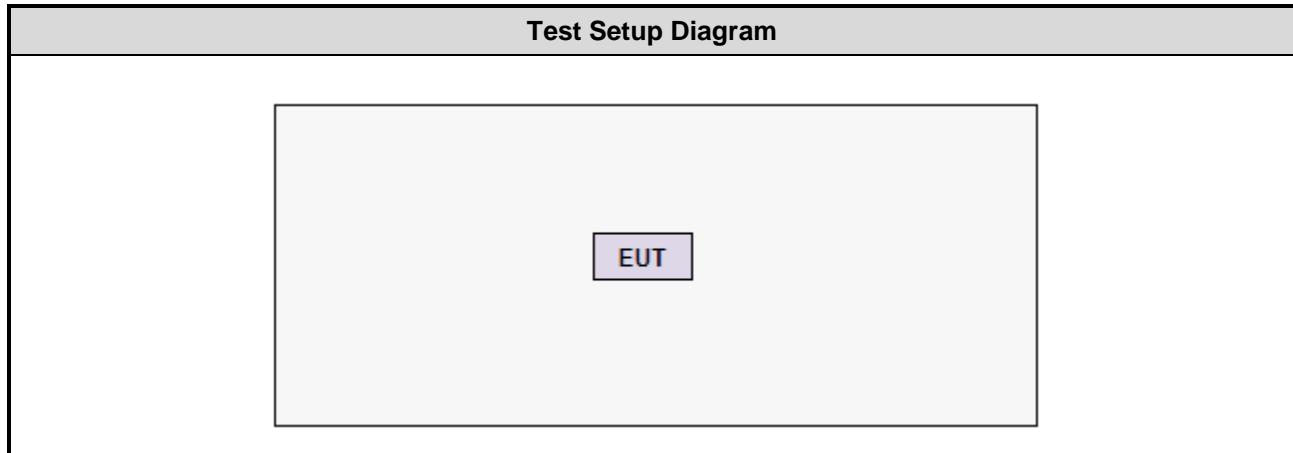
1.1.8 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)		
	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	Notebook	DELL	Latitude 5400	DoC	---
2	USB Fixture	---	---	---	Provided by applicant.

1.3 Test Setup Chart



Note: The notebook and USB Fixture are disconnected from EUT and removed from test table when EUT is set to transmit continuously.

1.4 Test Equipment List and Calibration Data

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Dec. 04, 2020	Dec. 03, 2021
Receiver	R&S	ESR3	101658	Feb. 08, 2021	Feb. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 10, 2020	Jul. 09, 2021
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 11, 2020	Dec. 10, 2021
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 06, 2020	Nov. 05, 2021
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 17, 2020	Nov. 16, 2021
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 06, 2020	Oct. 05, 2021
Preamplifier	EMC	EMC02325	980225	Jul. 03, 2020	Jul. 02, 2021
Preamplifier	Agilent	83017A	MY39501308	Sep. 26, 2020	Sep. 25, 2021
Preamplifier	EMC	EMC184045B	980192	Jul. 21, 2020	Jul. 20, 2021
RF Cable	EMC	EMC104-SM-SM-8000	181106	Oct. 06, 2020	Oct. 05, 2021
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 06, 2020	Oct. 05, 2021
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 06, 2020	Oct. 05, 2021
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 06, 2020	Oct. 05, 2021
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 06, 2020	Oct. 05, 2021
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 06, 2020	Oct. 05, 2021
Measurement Software	AUDIX	e3	6.120210g	NA	NA

Note: Calibration Interval of instruments listed above is one year.

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Apr. 30, 2020	Apr. 29, 2021
Power Meter	Anritsu	ML2495A	1241002	Nov. 04, 2020	Nov. 03, 2021
Power Sensor	Anritsu	MA2411B	1207366	Nov. 04, 2020	Nov. 03, 2021
DC POWER SOURCE	GW INSTEK	GPC-6030D	GES855395	Nov. 09, 2020	Nov. 08, 2021
Measurement Software	--	SENSE-15247_DTS	V5.10.7	NA	NA

Note: Calibration Interval of instruments listed 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
AC conducted emission	±2.92 dB
Radiated emission ≤ 1GHz	±3.41 dB
Radiated emission > 1GHz	±4.59 dB

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	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.: TW2732
- FCC 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
Radiated Emissions ≤ 1GHz	BT LE	2480	1Mbps	---
Maximum Output Power 6dB bandwidth Power spectral density Radiated Emissions > 1GHz	BT LE	2402, 2440, 2480	1Mbps	---

3 Transmitter Test Results

3.1 6dB and Occupied Bandwidth

3.1.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

3.1.2 Test Procedures

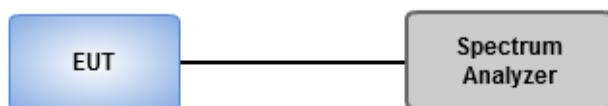
6dB Bandwidth

1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

Occupied Bandwidth

1. Set resolution bandwidth (RBW) = 1% ~ 5 % of OBW, Video bandwidth = 3 x RBW
2. Detector = Sample, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

3.1.3 Test Setup



3.1.4 Test Result of 6dB and Occupied Bandwidth

Ambient Condition	18°C / 65%	Tested By	Aska Huang
-------------------	------------	-----------	------------

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)	713.768k	1.053M	1M05F1D	702.899k	1.049M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
 Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

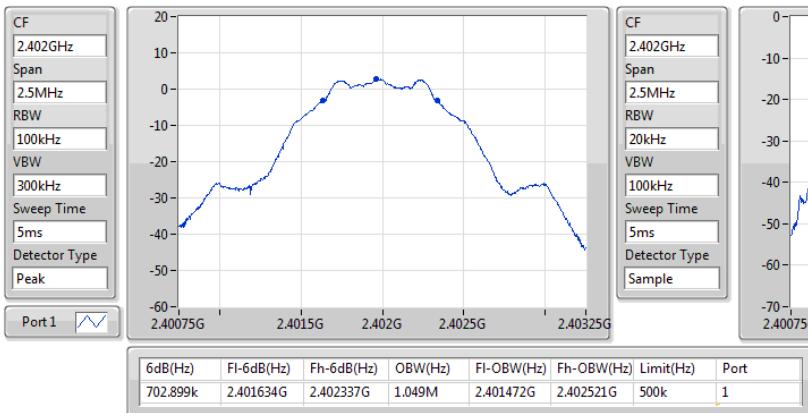
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	702.899k	1.049M
2440MHz	Pass	500k	710.145k	1.049M
2480MHz	Pass	500k	713.768k	1.053M

Port X-N dB = Port X 6dB down bandwidth;
 Port X-OBW = Port X 99% occupied bandwidth

BT-LE(1Mbps)

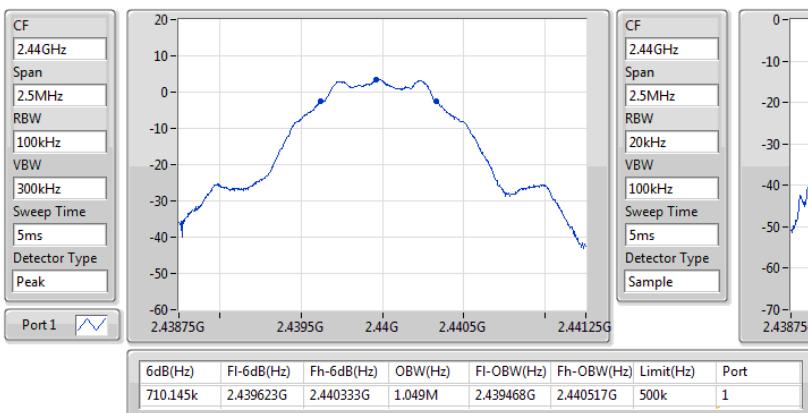
2402MHz



EBW-DTS

BT-LE(1Mbps)

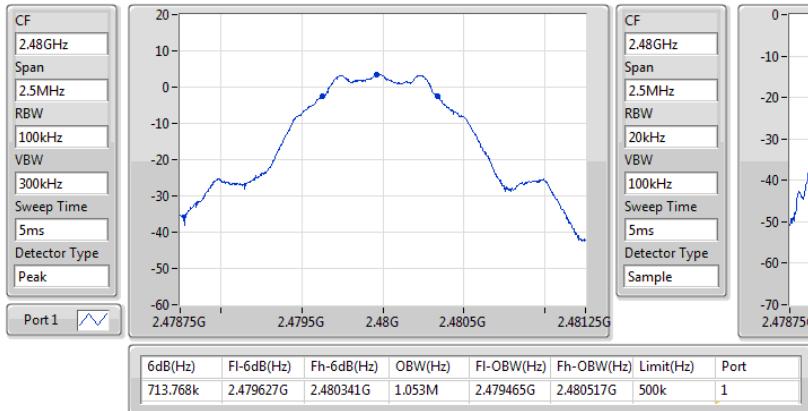
2440MHz



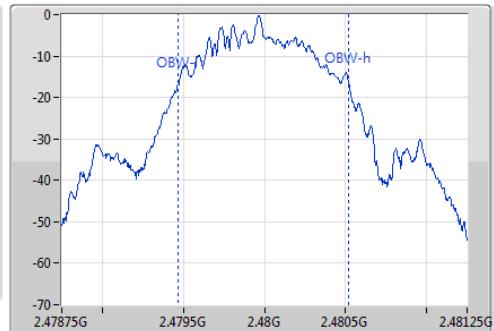
EBW-DTS

BT-LE(1Mbps)

2480MHz



EBW-DTS



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



3.2.4 Test Result of Maximum Output Power

Ambient Condition	18°C / 65%	Tested By	Aska Huang
-------------------	------------	-----------	------------

Summary of Peak Conducted Output Power

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	3.72	0.00236

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.80	3.35	30.00
2440MHz	Pass	2.80	3.71	30.00
2480MHz	Pass	2.80	3.72	30.00

DG = Directional Gain; Port X = Port X output power

Summary of Conducted (Average) Output Power

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	3.57	0.00228

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.80	3.19	-
2440MHz	Pass	2.80	3.35	-
2480MHz	Pass	2.80	3.57	-

Note: Average power is for reference only.

3.3 Power Spectral Density

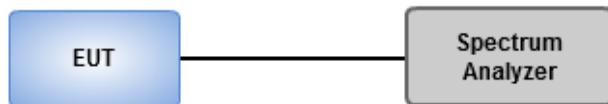
3.3.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

3.3.2 Test Procedures

1. Set the RBW = 3 kHz, VBW = 10 kHz.
2. Detector = Peak, Sweep time = auto couple.
3. Trace mode = max hold, allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

3.3.3 Test Setup



3.3.4 Test Result of Power Spectral Density

Ambient Condition	18°C / 65%	Tested By	Aska Huang
-------------------	------------	-----------	------------

Summary

Mode	PD (dBm/3kHz)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-9.91

RBW = 3kHz;

Result

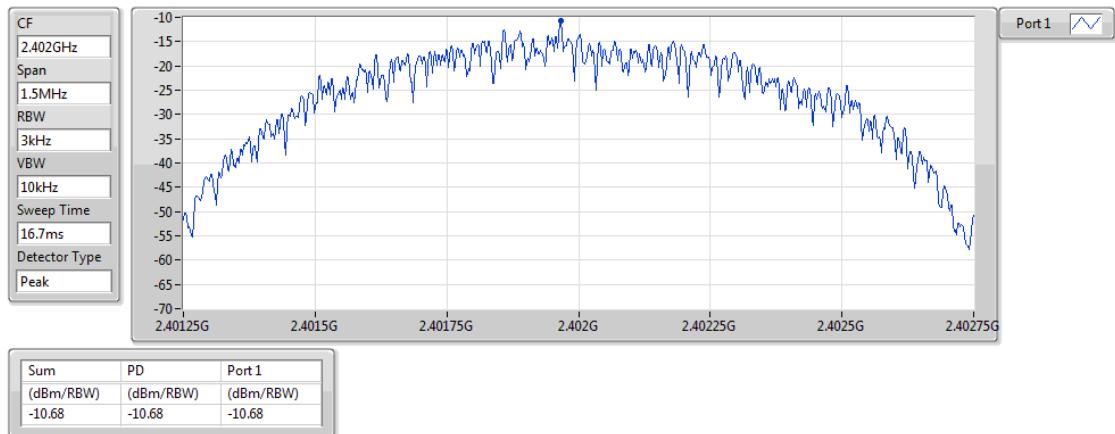
Mode	Result	Gain (dBi)	PD (dBm/3kHz)	PD Limit (dBm/3kHz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.80	-10.68	8.00
2440MHz	Pass	2.80	-10.04	8.00
2480MHz	Pass	2.80	-9.91	8.00

DG = Directional Gain;

PD = Maximum power density; Port X = Port X Power Density;

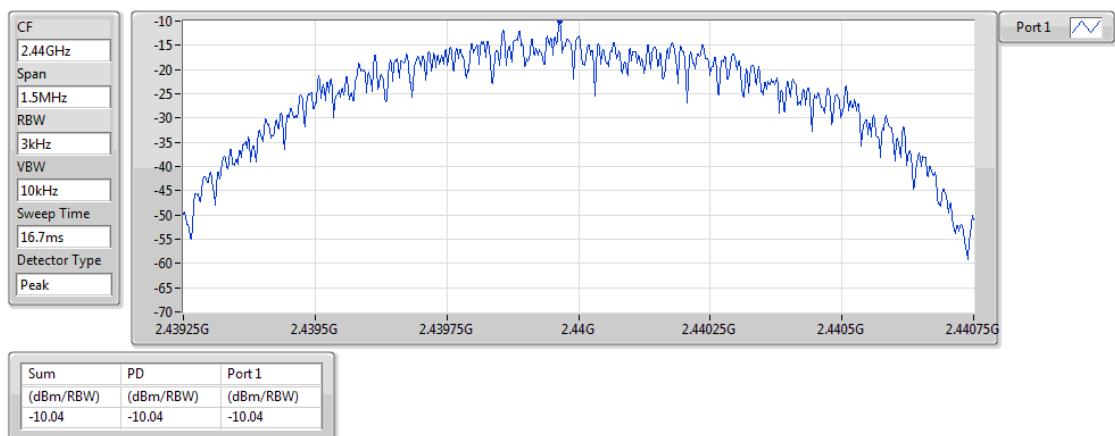
BT-LE(1Mbps)

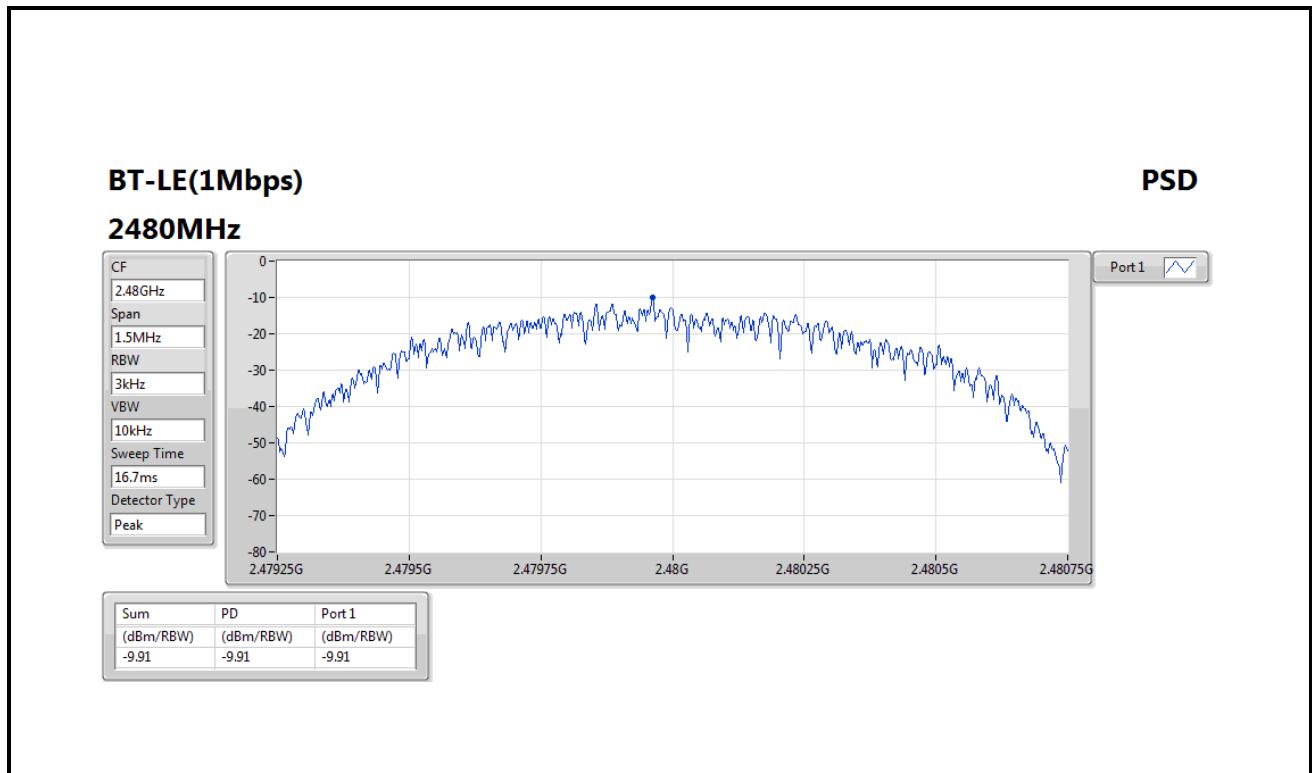
2402MHz



BT-LE(1Mbps)

2440MHz





3.4 Emissions in Restricted Frequency Bands

3.4.1 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:
Quasi-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

Note 2:
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.

3.4.2 Test Procedures

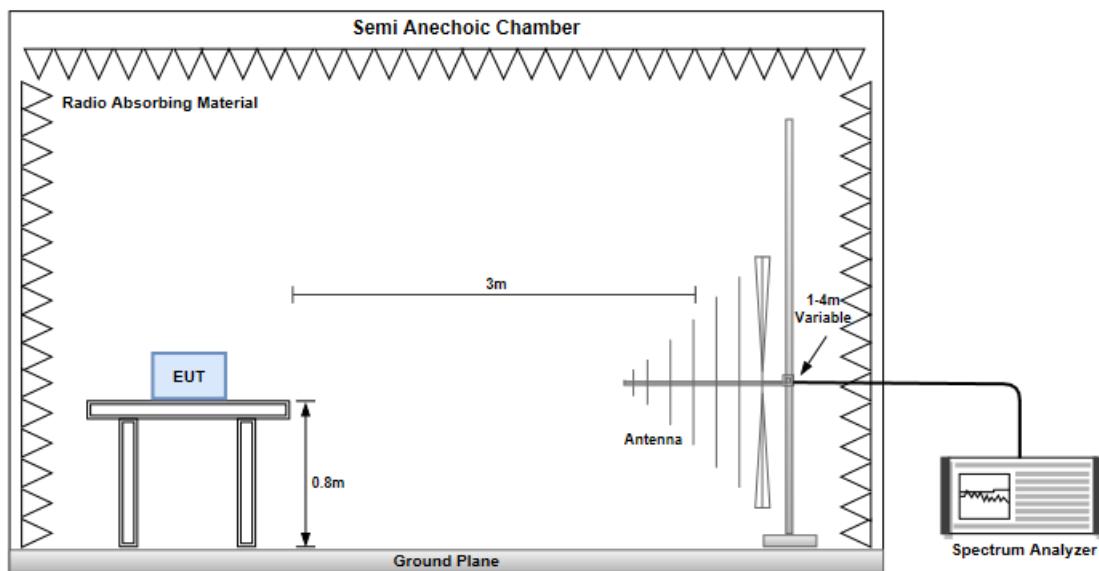
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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:

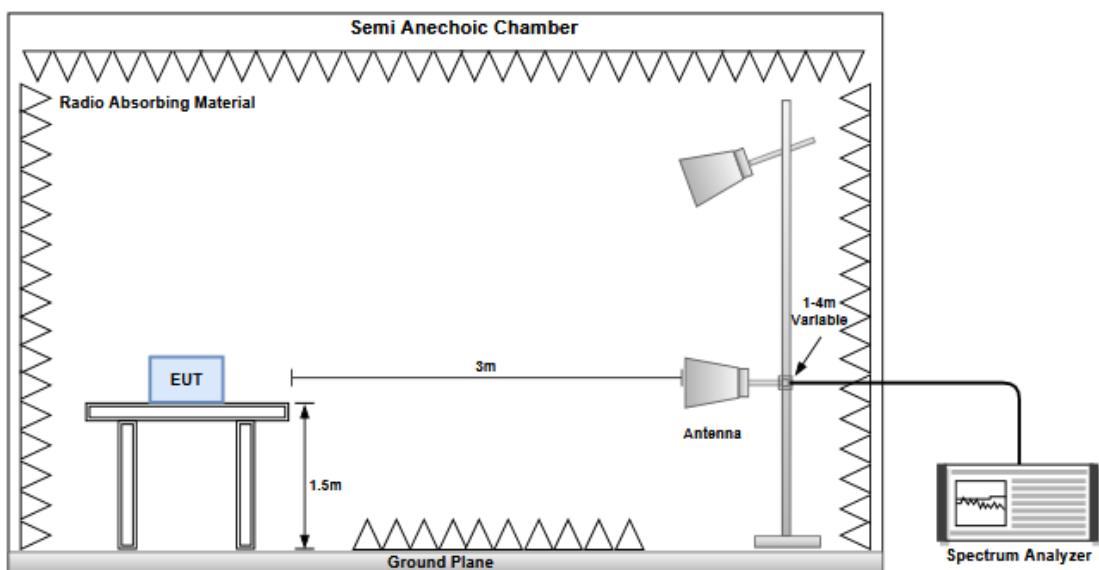
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.4.3 Test Setup

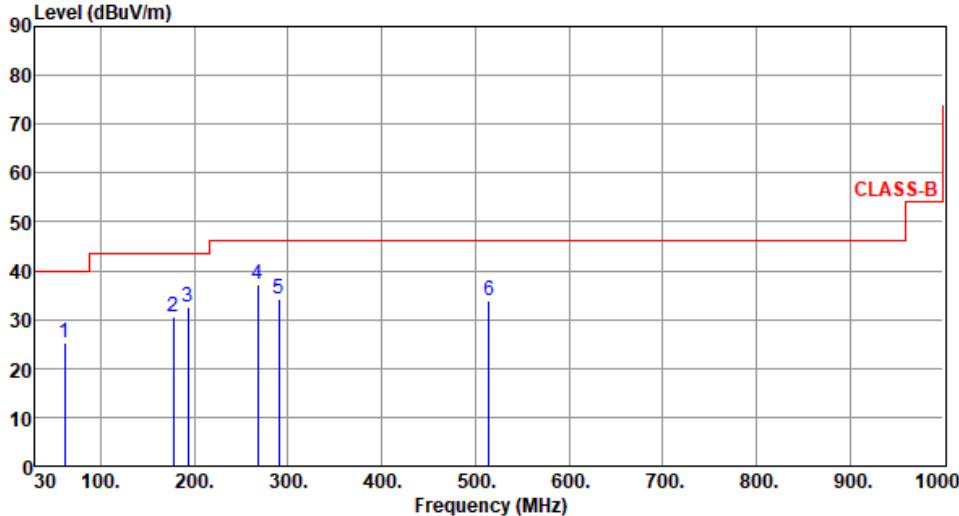
Radiated Emissions below 1 GHz

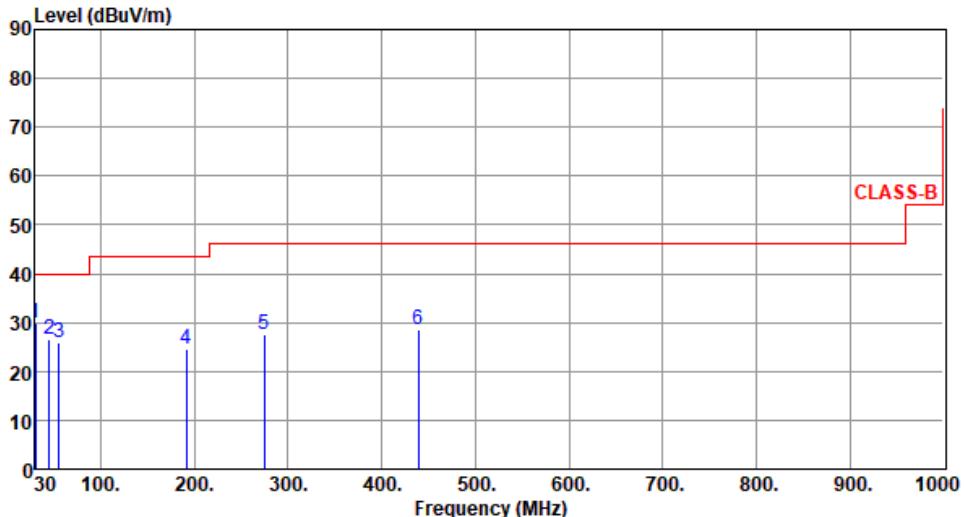


Radiated Emissions above 1 GHz

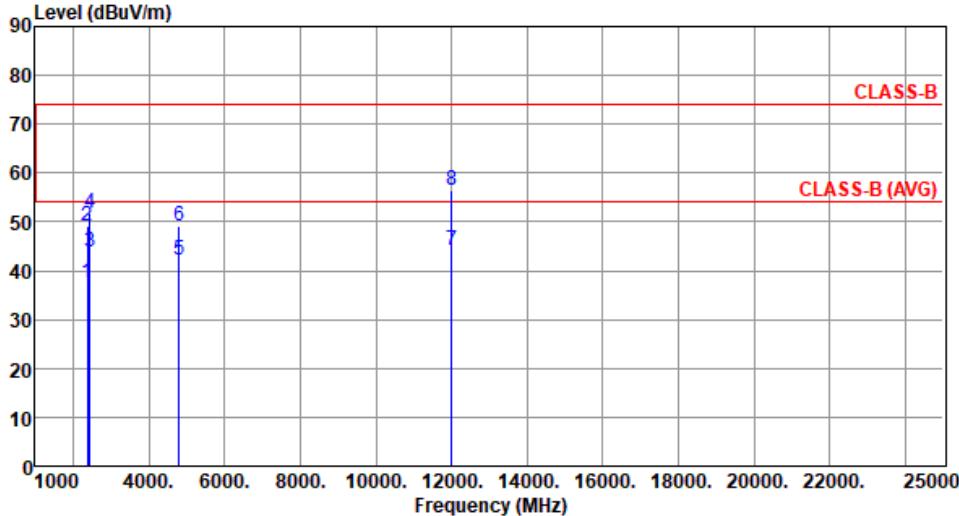


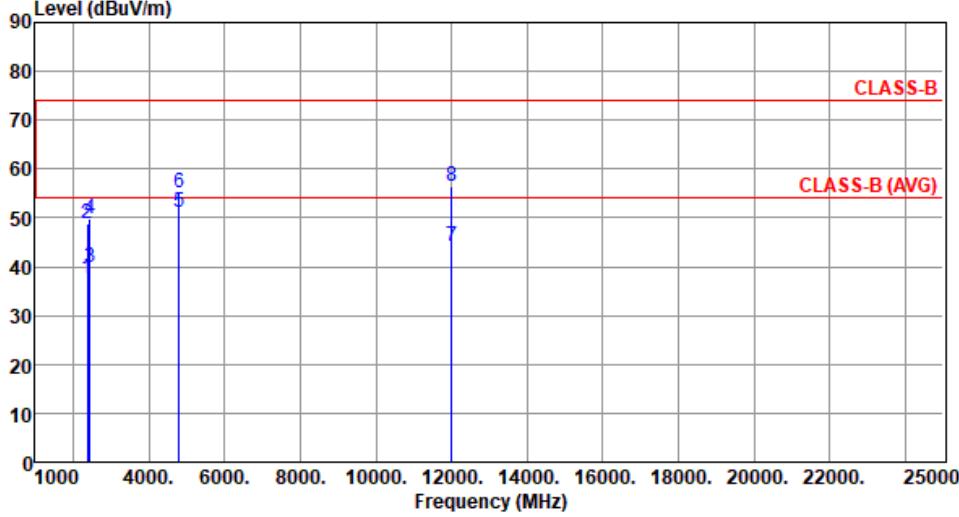
3.4.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

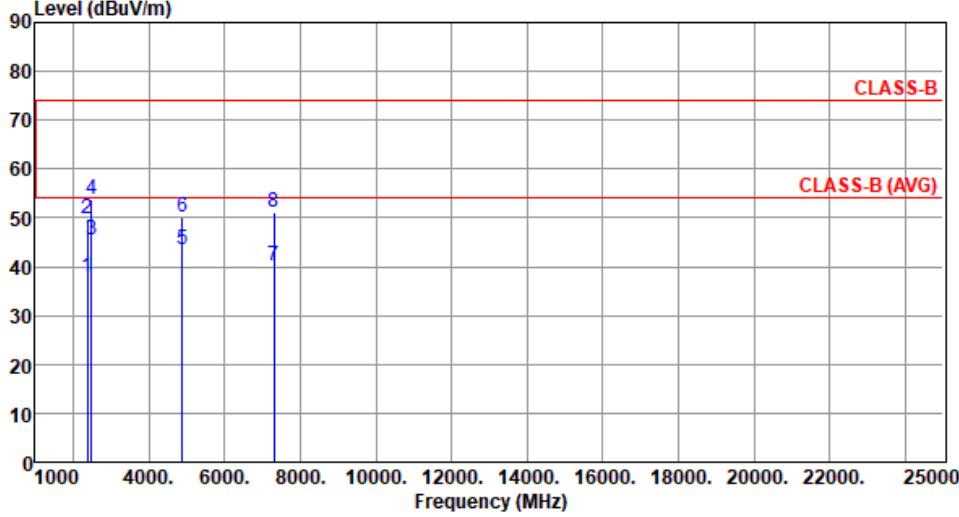
Modulation	BT LE-1Mbps	Test Freq. (MHz)	2480																																																																								
Polarization	Horizontal																																																																										
Test By	:Akun Chung	Temperature(°C):25	Humidity(%):66																																																																								
																																																																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Freq.</th> <th style="text-align: left;">Emission</th> <th style="text-align: left;">Limit</th> <th style="text-align: left;">Margin</th> <th style="text-align: left;">SA</th> <th style="text-align: left;">Factor</th> <th style="text-align: left;">Remark</th> <th style="text-align: left;">ANT</th> <th style="text-align: left;">Turn</th> </tr> <tr> <th style="text-align: left;">MHz</th> <th style="text-align: left;">level</th> <th style="text-align: left;">dBuV/m</th> <th style="text-align: left;">dB</th> <th style="text-align: left;">reading</th> <th style="text-align: left;">dBuV</th> <th style="text-align: left;">dB/m</th> <th style="text-align: left;">High</th> <th style="text-align: left;">Table</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>61.25</td> <td>25.15</td> <td>40.00</td> <td>-14.85</td> <td>34.38</td> <td>-9.23</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>2</td> <td>177.39</td> <td>30.48</td> <td>43.50</td> <td>-13.02</td> <td>40.50</td> <td>-10.02</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>3</td> <td>192.85</td> <td>32.56</td> <td>43.50</td> <td>-10.94</td> <td>44.21</td> <td>-11.65</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>4</td> <td>267.58</td> <td>37.11</td> <td>46.00</td> <td>-8.89</td> <td>46.45</td> <td>-9.34</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>5</td> <td>289.85</td> <td>34.36</td> <td>46.00</td> <td>-11.64</td> <td>42.78</td> <td>-8.42</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>6</td> <td>514.22</td> <td>33.84</td> <td>46.00</td> <td>-12.16</td> <td>36.74</td> <td>-2.90</td> <td>Peak</td> <td>---</td> </tr> </tbody> </table>				Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn	MHz	level	dBuV/m	dB	reading	dBuV	dB/m	High	Table	1	61.25	25.15	40.00	-14.85	34.38	-9.23	Peak	---	2	177.39	30.48	43.50	-13.02	40.50	-10.02	Peak	---	3	192.85	32.56	43.50	-10.94	44.21	-11.65	Peak	---	4	267.58	37.11	46.00	-8.89	46.45	-9.34	Peak	---	5	289.85	34.36	46.00	-11.64	42.78	-8.42	Peak	---	6	514.22	33.84	46.00	-12.16	36.74	-2.90	Peak	---
Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																			
MHz	level	dBuV/m	dB	reading	dBuV	dB/m	High	Table																																																																			
1	61.25	25.15	40.00	-14.85	34.38	-9.23	Peak	---																																																																			
2	177.39	30.48	43.50	-13.02	40.50	-10.02	Peak	---																																																																			
3	192.85	32.56	43.50	-10.94	44.21	-11.65	Peak	---																																																																			
4	267.58	37.11	46.00	-8.89	46.45	-9.34	Peak	---																																																																			
5	289.85	34.36	46.00	-11.64	42.78	-8.42	Peak	---																																																																			
6	514.22	33.84	46.00	-12.16	36.74	-2.90	Peak	---																																																																			
<p>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.</p>																																																																											

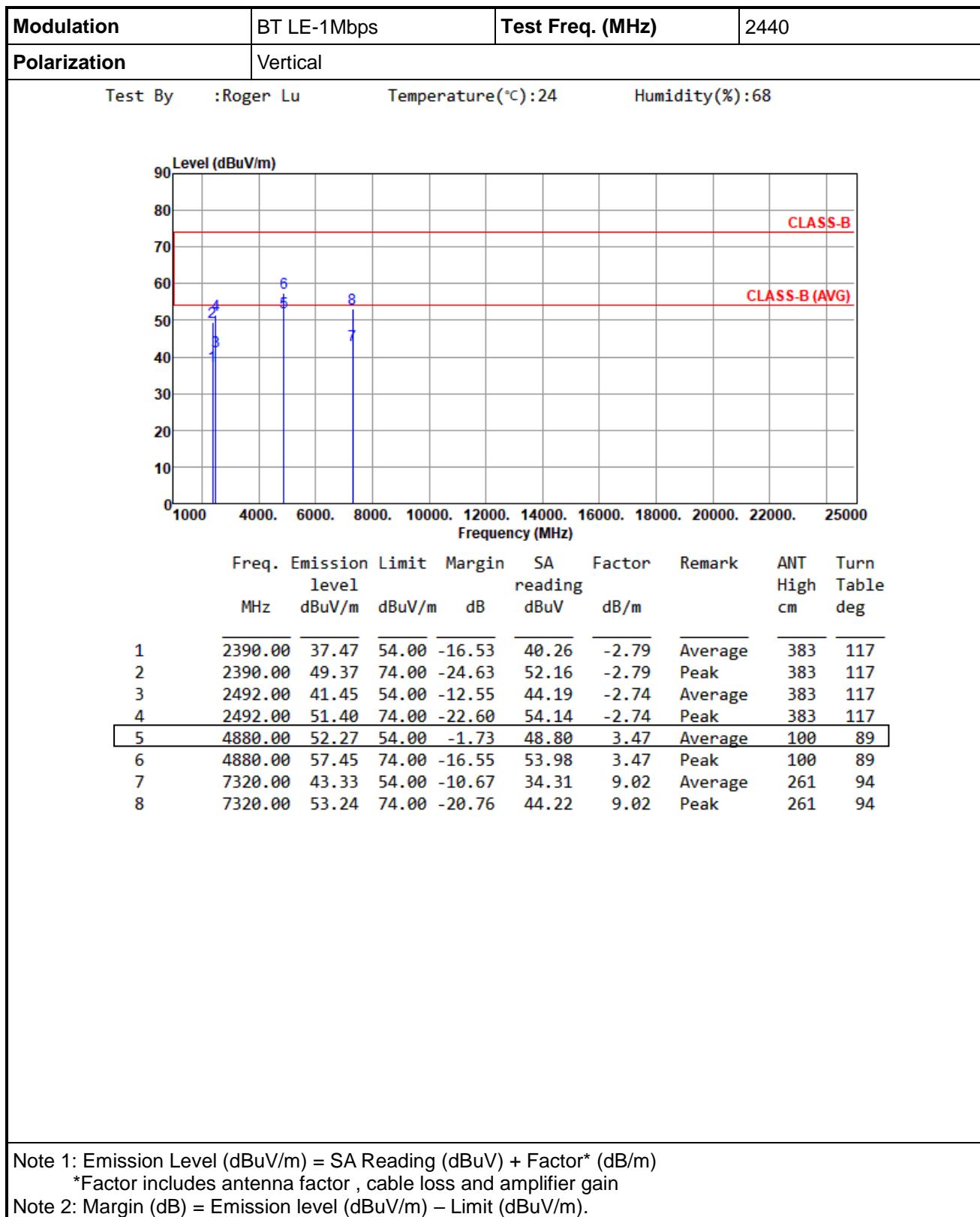
Modulation	BT LE-1Mbps	Test Freq. (MHz)	2480																																																															
Polarization	Vertical																																																																	
Test By	:Akun Chung	Temperature(°C):25	Humidity(%):66																																																															
																																																																		
<table border="1"> <thead> <tr> <th></th> <th>Freq. level MHz</th> <th>Emission Limit dBuV/m</th> <th>Margin dB</th> <th>SA reading dBuV</th> <th>Factor dB/m</th> <th>Remark</th> <th>ANT High cm</th> <th>Turn Table deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>30.52</td> <td>29.88</td> <td>40.00</td> <td>-10.12</td> <td>39.52</td> <td>-9.64</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>2</td> <td>45.45</td> <td>26.52</td> <td>40.00</td> <td>-13.48</td> <td>34.80</td> <td>-8.28</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>3</td> <td>55.33</td> <td>25.82</td> <td>40.00</td> <td>-14.18</td> <td>34.67</td> <td>-8.85</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>4</td> <td>191.88</td> <td>24.53</td> <td>43.50</td> <td>-18.97</td> <td>36.17</td> <td>-11.64</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>5</td> <td>274.36</td> <td>27.70</td> <td>46.00</td> <td>-18.30</td> <td>36.61</td> <td>-8.91</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>6</td> <td>439.44</td> <td>28.63</td> <td>46.00</td> <td>-17.37</td> <td>33.21</td> <td>-4.58</td> <td>Peak</td> <td>---</td> </tr> </tbody> </table>					Freq. level MHz	Emission Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	30.52	29.88	40.00	-10.12	39.52	-9.64	Peak	---	2	45.45	26.52	40.00	-13.48	34.80	-8.28	Peak	---	3	55.33	25.82	40.00	-14.18	34.67	-8.85	Peak	---	4	191.88	24.53	43.50	-18.97	36.17	-11.64	Peak	---	5	274.36	27.70	46.00	-18.30	36.61	-8.91	Peak	---	6	439.44	28.63	46.00	-17.37	33.21	-4.58	Peak	---
	Freq. level MHz	Emission Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																										
1	30.52	29.88	40.00	-10.12	39.52	-9.64	Peak	---																																																										
2	45.45	26.52	40.00	-13.48	34.80	-8.28	Peak	---																																																										
3	55.33	25.82	40.00	-14.18	34.67	-8.85	Peak	---																																																										
4	191.88	24.53	43.50	-18.97	36.17	-11.64	Peak	---																																																										
5	274.36	27.70	46.00	-18.30	36.61	-8.91	Peak	---																																																										
6	439.44	28.63	46.00	-17.37	33.21	-4.58	Peak	---																																																										
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)</p> <p>*Factor includes antenna factor , cable loss and amplifier gain</p> <p>Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p> <p>Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.</p>																																																																		

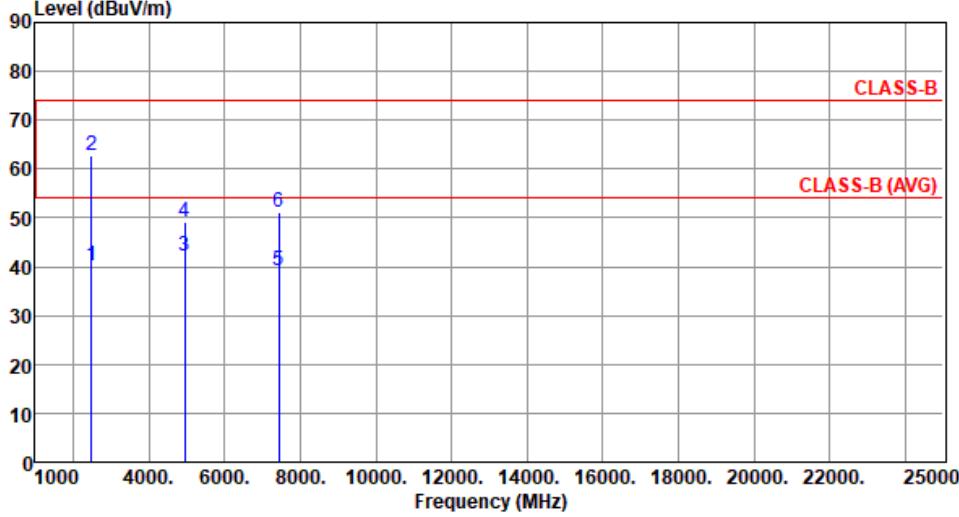
3.4.5 Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation	BT LE-1Mbps	Test Freq. (MHz)	2402																																																																																																
Polarization	Horizontal																																																																																																		
Test By	:Roger Lu	Temperature(°C):24	Humidity(%):68																																																																																																
																																																																																																			
<table> <thead> <tr> <th>Freq.</th> <th>Emission Limit</th> <th>Margin</th> <th>SA</th> <th>Factor</th> <th>Remark</th> <th>ANT</th> <th>Turn</th> </tr> <tr> <th>MHz</th> <th>level</th> <th>dBuV/m</th> <th>dB</th> <th>reading</th> <th></th> <th>High</th> <th>Table</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2390.00</td> <td>37.47</td> <td>54.00</td> <td>-16.53</td> <td>40.26</td> <td>-2.79</td> <td>Average</td> <td>111</td> <td>179</td> </tr> <tr> <td>2</td> <td>2390.00</td> <td>49.23</td> <td>74.00</td> <td>-24.77</td> <td>52.02</td> <td>-2.79</td> <td>Peak</td> <td>111</td> <td>179</td> </tr> <tr> <td>3</td> <td>2454.00</td> <td>43.86</td> <td>54.00</td> <td>-10.14</td> <td>46.58</td> <td>-2.72</td> <td>Average</td> <td>111</td> <td>179</td> </tr> <tr> <td>4</td> <td>2454.00</td> <td>51.84</td> <td>74.00</td> <td>-22.16</td> <td>54.56</td> <td>-2.72</td> <td>Peak</td> <td>111</td> <td>179</td> </tr> <tr> <td>5</td> <td>4804.00</td> <td>42.18</td> <td>54.00</td> <td>-11.82</td> <td>38.68</td> <td>3.50</td> <td>Average</td> <td>315</td> <td>46</td> </tr> <tr> <td>6</td> <td>4804.00</td> <td>49.14</td> <td>74.00</td> <td>-24.86</td> <td>45.64</td> <td>3.50</td> <td>Peak</td> <td>315</td> <td>46</td> </tr> <tr> <td>7</td> <td>12010.00</td> <td>44.12</td> <td>54.00</td> <td>-9.88</td> <td>29.85</td> <td>14.27</td> <td>Average</td> <td>100</td> <td>60</td> </tr> <tr> <td>8</td> <td>12010.00</td> <td>56.38</td> <td>74.00</td> <td>-17.62</td> <td>42.11</td> <td>14.27</td> <td>Peak</td> <td>100</td> <td>60</td> </tr> </tbody> </table>				Freq.	Emission Limit	Margin	SA	Factor	Remark	ANT	Turn	MHz	level	dBuV/m	dB	reading		High	Table	1	2390.00	37.47	54.00	-16.53	40.26	-2.79	Average	111	179	2	2390.00	49.23	74.00	-24.77	52.02	-2.79	Peak	111	179	3	2454.00	43.86	54.00	-10.14	46.58	-2.72	Average	111	179	4	2454.00	51.84	74.00	-22.16	54.56	-2.72	Peak	111	179	5	4804.00	42.18	54.00	-11.82	38.68	3.50	Average	315	46	6	4804.00	49.14	74.00	-24.86	45.64	3.50	Peak	315	46	7	12010.00	44.12	54.00	-9.88	29.85	14.27	Average	100	60	8	12010.00	56.38	74.00	-17.62	42.11	14.27	Peak	100	60
Freq.	Emission Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																												
MHz	level	dBuV/m	dB	reading		High	Table																																																																																												
1	2390.00	37.47	54.00	-16.53	40.26	-2.79	Average	111	179																																																																																										
2	2390.00	49.23	74.00	-24.77	52.02	-2.79	Peak	111	179																																																																																										
3	2454.00	43.86	54.00	-10.14	46.58	-2.72	Average	111	179																																																																																										
4	2454.00	51.84	74.00	-22.16	54.56	-2.72	Peak	111	179																																																																																										
5	4804.00	42.18	54.00	-11.82	38.68	3.50	Average	315	46																																																																																										
6	4804.00	49.14	74.00	-24.86	45.64	3.50	Peak	315	46																																																																																										
7	12010.00	44.12	54.00	-9.88	29.85	14.27	Average	100	60																																																																																										
8	12010.00	56.38	74.00	-17.62	42.11	14.27	Peak	100	60																																																																																										
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).																																																																																																			

Modulation	BT LE-1Mbps	Test Freq. (MHz)	2402																																																																																										
Polarization	Vertical																																																																																												
Test By	:Roger Lu	Temperature(°C):24	Humidity(%):68																																																																																										
																																																																																													
<table border="1"> <thead> <tr> <th></th> <th>Freq.</th> <th>Emission level MHz</th> <th>Limit dBuV/m</th> <th>Margin dB</th> <th>SA reading dBuV</th> <th>Factor dB/m</th> <th>Remark</th> <th>ANT High cm</th> <th>Turn Table deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2390.00</td> <td>37.36</td> <td>54.00</td> <td>-16.64</td> <td>40.15</td> <td>-2.79</td> <td>Average</td> <td>385</td> <td>119</td> </tr> <tr> <td>2</td> <td>2390.00</td> <td>48.80</td> <td>74.00</td> <td>-25.20</td> <td>51.59</td> <td>-2.79</td> <td>Peak</td> <td>385</td> <td>119</td> </tr> <tr> <td>3</td> <td>2454.00</td> <td>39.93</td> <td>54.00</td> <td>-14.07</td> <td>42.65</td> <td>-2.72</td> <td>Average</td> <td>385</td> <td>119</td> </tr> <tr> <td>4</td> <td>2454.00</td> <td>49.74</td> <td>74.00</td> <td>-24.26</td> <td>52.46</td> <td>-2.72</td> <td>Peak</td> <td>385</td> <td>119</td> </tr> <tr> <td>5</td> <td>4804.00</td> <td>51.02</td> <td>54.00</td> <td>-2.98</td> <td>47.52</td> <td>3.50</td> <td>Average</td> <td>100</td> <td>88</td> </tr> <tr> <td>6</td> <td>4804.00</td> <td>55.20</td> <td>74.00</td> <td>-18.80</td> <td>51.70</td> <td>3.50</td> <td>Peak</td> <td>100</td> <td>88</td> </tr> <tr> <td>7</td> <td>12010.00</td> <td>44.05</td> <td>54.00</td> <td>-9.95</td> <td>29.78</td> <td>14.27</td> <td>Average</td> <td>100</td> <td>30</td> </tr> <tr> <td>8</td> <td>12010.00</td> <td>56.53</td> <td>74.00</td> <td>-17.47</td> <td>42.26</td> <td>14.27</td> <td>Peak</td> <td>100</td> <td>30</td> </tr> </tbody> </table>					Freq.	Emission level MHz	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	2390.00	37.36	54.00	-16.64	40.15	-2.79	Average	385	119	2	2390.00	48.80	74.00	-25.20	51.59	-2.79	Peak	385	119	3	2454.00	39.93	54.00	-14.07	42.65	-2.72	Average	385	119	4	2454.00	49.74	74.00	-24.26	52.46	-2.72	Peak	385	119	5	4804.00	51.02	54.00	-2.98	47.52	3.50	Average	100	88	6	4804.00	55.20	74.00	-18.80	51.70	3.50	Peak	100	88	7	12010.00	44.05	54.00	-9.95	29.78	14.27	Average	100	30	8	12010.00	56.53	74.00	-17.47	42.26	14.27	Peak	100	30
	Freq.	Emission level MHz	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
1	2390.00	37.36	54.00	-16.64	40.15	-2.79	Average	385	119																																																																																				
2	2390.00	48.80	74.00	-25.20	51.59	-2.79	Peak	385	119																																																																																				
3	2454.00	39.93	54.00	-14.07	42.65	-2.72	Average	385	119																																																																																				
4	2454.00	49.74	74.00	-24.26	52.46	-2.72	Peak	385	119																																																																																				
5	4804.00	51.02	54.00	-2.98	47.52	3.50	Average	100	88																																																																																				
6	4804.00	55.20	74.00	-18.80	51.70	3.50	Peak	100	88																																																																																				
7	12010.00	44.05	54.00	-9.95	29.78	14.27	Average	100	30																																																																																				
8	12010.00	56.53	74.00	-17.47	42.26	14.27	Peak	100	30																																																																																				
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).																																																																																													

Modulation	BT LE-1Mbps	Test Freq. (MHz)	2440																																																																																																		
Polarization	Horizontal																																																																																																				
Test By	:Roger Lu	Temperature(°C):24	Humidity(%):68																																																																																																		
																																																																																																					
<table border="1"> <thead> <tr> <th></th> <th>Freq.</th> <th>Emission Limit</th> <th>Margin</th> <th>SA reading</th> <th>Factor</th> <th>Remark</th> <th>ANT High</th> <th>Turn Table</th> </tr> <tr> <th></th> <th>level MHz</th> <th>dBuV/m</th> <th>Margin dB</th> <th>dBuV</th> <th>dB/m</th> <th></th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2390.00</td> <td>37.96</td> <td>54.00</td> <td>-16.04</td> <td>40.75</td> <td>-2.79</td> <td>Average</td> <td>149</td> <td>182</td> </tr> <tr> <td>2</td> <td>2390.00</td> <td>49.67</td> <td>74.00</td> <td>-24.33</td> <td>52.46</td> <td>-2.79</td> <td>Peak</td> <td>149</td> <td>182</td> </tr> <tr> <td>3</td> <td>2492.00</td> <td>45.34</td> <td>54.00</td> <td>-8.66</td> <td>48.08</td> <td>-2.74</td> <td>Average</td> <td>149</td> <td>182</td> </tr> <tr> <td>4</td> <td>2492.00</td> <td>53.64</td> <td>74.00</td> <td>-20.36</td> <td>56.38</td> <td>-2.74</td> <td>Peak</td> <td>149</td> <td>182</td> </tr> <tr> <td>5</td> <td>4880.00</td> <td>43.38</td> <td>54.00</td> <td>-10.62</td> <td>39.91</td> <td>3.47</td> <td>Average</td> <td>314</td> <td>51</td> </tr> <tr> <td>6</td> <td>4880.00</td> <td>50.11</td> <td>74.00</td> <td>-23.89</td> <td>46.64</td> <td>3.47</td> <td>Peak</td> <td>314</td> <td>51</td> </tr> <tr> <td>7</td> <td>7320.00</td> <td>40.05</td> <td>54.00</td> <td>-13.95</td> <td>31.03</td> <td>9.02</td> <td>Average</td> <td>100</td> <td>249</td> </tr> <tr> <td>8</td> <td>7320.00</td> <td>51.06</td> <td>74.00</td> <td>-22.94</td> <td>42.04</td> <td>9.02</td> <td>Peak</td> <td>100</td> <td>249</td> </tr> </tbody> </table>					Freq.	Emission Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table		level MHz	dBuV/m	Margin dB	dBuV	dB/m		cm	deg	1	2390.00	37.96	54.00	-16.04	40.75	-2.79	Average	149	182	2	2390.00	49.67	74.00	-24.33	52.46	-2.79	Peak	149	182	3	2492.00	45.34	54.00	-8.66	48.08	-2.74	Average	149	182	4	2492.00	53.64	74.00	-20.36	56.38	-2.74	Peak	149	182	5	4880.00	43.38	54.00	-10.62	39.91	3.47	Average	314	51	6	4880.00	50.11	74.00	-23.89	46.64	3.47	Peak	314	51	7	7320.00	40.05	54.00	-13.95	31.03	9.02	Average	100	249	8	7320.00	51.06	74.00	-22.94	42.04	9.02	Peak	100	249
	Freq.	Emission Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table																																																																																													
	level MHz	dBuV/m	Margin dB	dBuV	dB/m		cm	deg																																																																																													
1	2390.00	37.96	54.00	-16.04	40.75	-2.79	Average	149	182																																																																																												
2	2390.00	49.67	74.00	-24.33	52.46	-2.79	Peak	149	182																																																																																												
3	2492.00	45.34	54.00	-8.66	48.08	-2.74	Average	149	182																																																																																												
4	2492.00	53.64	74.00	-20.36	56.38	-2.74	Peak	149	182																																																																																												
5	4880.00	43.38	54.00	-10.62	39.91	3.47	Average	314	51																																																																																												
6	4880.00	50.11	74.00	-23.89	46.64	3.47	Peak	314	51																																																																																												
7	7320.00	40.05	54.00	-13.95	31.03	9.02	Average	100	249																																																																																												
8	7320.00	51.06	74.00	-22.94	42.04	9.02	Peak	100	249																																																																																												
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).																																																																																																					



Modulation	BT LE-1Mbps	Test Freq. (MHz)	2480																																																																																	
Polarization	Horizontal																																																																																			
Test By	:Roger Lu	Temperature(°C):24	Humidity(%):68																																																																																	
																																																																																				
<table border="1"> <thead> <tr> <th></th><th>Freq.</th><th>Emission Limit</th><th>Margin</th><th>SA reading</th><th>Factor</th><th>Remark</th><th>ANT High</th><th>Turn Table</th></tr> <tr> <th></th><th>level</th><th>level</th><th>dB</th><th>dBuV</th><th>dB/m</th><th></th><th>cm</th><th>deg</th></tr> <tr> <th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th></th><th></th><th></th><th></th><th></th></tr> </thead> <tbody> <tr> <td>1</td><td>2483.50</td><td>40.06</td><td>54.00</td><td>-13.94</td><td>42.80</td><td>-2.74</td><td>Average</td><td>149 176</td></tr> <tr> <td>2</td><td>2483.50</td><td>62.91</td><td>74.00</td><td>-11.09</td><td>65.65</td><td>-2.74</td><td>Peak</td><td>149 176</td></tr> <tr> <td>3</td><td>4960.00</td><td>42.33</td><td>54.00</td><td>-11.67</td><td>38.65</td><td>3.68</td><td>Average</td><td>315 49</td></tr> <tr> <td>4</td><td>4960.00</td><td>49.26</td><td>74.00</td><td>-24.74</td><td>45.58</td><td>3.68</td><td>Peak</td><td>315 49</td></tr> <tr> <td>5</td><td>7440.00</td><td>39.13</td><td>54.00</td><td>-14.87</td><td>30.15</td><td>8.98</td><td>Average</td><td>100 250</td></tr> <tr> <td>6</td><td>7440.00</td><td>51.04</td><td>74.00</td><td>-22.96</td><td>42.06</td><td>8.98</td><td>Peak</td><td>100 250</td></tr> </tbody> </table>					Freq.	Emission Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table		level	level	dB	dBuV	dB/m		cm	deg		MHz	dBuV/m	dBuV/m						1	2483.50	40.06	54.00	-13.94	42.80	-2.74	Average	149 176	2	2483.50	62.91	74.00	-11.09	65.65	-2.74	Peak	149 176	3	4960.00	42.33	54.00	-11.67	38.65	3.68	Average	315 49	4	4960.00	49.26	74.00	-24.74	45.58	3.68	Peak	315 49	5	7440.00	39.13	54.00	-14.87	30.15	8.98	Average	100 250	6	7440.00	51.04	74.00	-22.96	42.06	8.98	Peak	100 250
	Freq.	Emission Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table																																																																												
	level	level	dB	dBuV	dB/m		cm	deg																																																																												
	MHz	dBuV/m	dBuV/m																																																																																	
1	2483.50	40.06	54.00	-13.94	42.80	-2.74	Average	149 176																																																																												
2	2483.50	62.91	74.00	-11.09	65.65	-2.74	Peak	149 176																																																																												
3	4960.00	42.33	54.00	-11.67	38.65	3.68	Average	315 49																																																																												
4	4960.00	49.26	74.00	-24.74	45.58	3.68	Peak	315 49																																																																												
5	7440.00	39.13	54.00	-14.87	30.15	8.98	Average	100 250																																																																												
6	7440.00	51.04	74.00	-22.96	42.06	8.98	Peak	100 250																																																																												
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).																																																																																				

Modulation	BT LE-1Mbps	Test Freq. (MHz)	2480																																																																					
Polarization	Vertical																																																																							
Test By	:Roger Lu	Temperature(°C):24	Humidity(%):68																																																																					
<table border="1"> <thead> <tr> <th>Freq.</th> <th>Emission level MHz</th> <th>Limit dBuV/m</th> <th>Margin dB</th> <th>SA reading dBuV</th> <th>Factor dB/m</th> <th>Remark</th> <th>ANT High cm</th> <th>Turn Table deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2483.50</td> <td>38.82</td> <td>54.00</td> <td>-15.18</td> <td>41.56</td> <td>-2.74</td> <td>Average</td> <td>385</td> <td>119</td> </tr> <tr> <td>2</td> <td>2483.50</td> <td>57.37</td> <td>74.00</td> <td>-16.63</td> <td>60.11</td> <td>-2.74</td> <td>Peak</td> <td>385</td> <td>119</td> </tr> <tr> <td>3</td> <td>4960.00</td> <td>51.13</td> <td>54.00</td> <td>-2.87</td> <td>47.45</td> <td>3.68</td> <td>Average</td> <td>100</td> <td>88</td> </tr> <tr> <td>4</td> <td>4960.00</td> <td>56.22</td> <td>74.00</td> <td>-17.78</td> <td>52.54</td> <td>3.68</td> <td>Peak</td> <td>100</td> <td>88</td> </tr> <tr> <td>5</td> <td>7440.00</td> <td>41.54</td> <td>54.00</td> <td>-12.46</td> <td>32.56</td> <td>8.98</td> <td>Average</td> <td>255</td> <td>95</td> </tr> <tr> <td>6</td> <td>7440.00</td> <td>52.13</td> <td>74.00</td> <td>-21.87</td> <td>43.15</td> <td>8.98</td> <td>Peak</td> <td>255</td> <td>95</td> </tr> </tbody> </table>				Freq.	Emission level MHz	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	2483.50	38.82	54.00	-15.18	41.56	-2.74	Average	385	119	2	2483.50	57.37	74.00	-16.63	60.11	-2.74	Peak	385	119	3	4960.00	51.13	54.00	-2.87	47.45	3.68	Average	100	88	4	4960.00	56.22	74.00	-17.78	52.54	3.68	Peak	100	88	5	7440.00	41.54	54.00	-12.46	32.56	8.98	Average	255	95	6	7440.00	52.13	74.00	-21.87	43.15	8.98	Peak	255	95
Freq.	Emission level MHz	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																
1	2483.50	38.82	54.00	-15.18	41.56	-2.74	Average	385	119																																																															
2	2483.50	57.37	74.00	-16.63	60.11	-2.74	Peak	385	119																																																															
3	4960.00	51.13	54.00	-2.87	47.45	3.68	Average	100	88																																																															
4	4960.00	56.22	74.00	-17.78	52.54	3.68	Peak	100	88																																																															
5	7440.00	41.54	54.00	-12.46	32.56	8.98	Average	255	95																																																															
6	7440.00	52.13	74.00	-21.87	43.15	8.98	Peak	255	95																																																															
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).																																																																								

3.5 Emissions in non-restricted Frequency Bands

3.5.1 Emissions in non-restricted frequency bands limit

Peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz.

3.5.2 Test Procedures

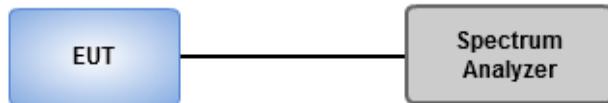
Reference level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Use the peak marker function to determine the maximum PSD level

Emission level measurement

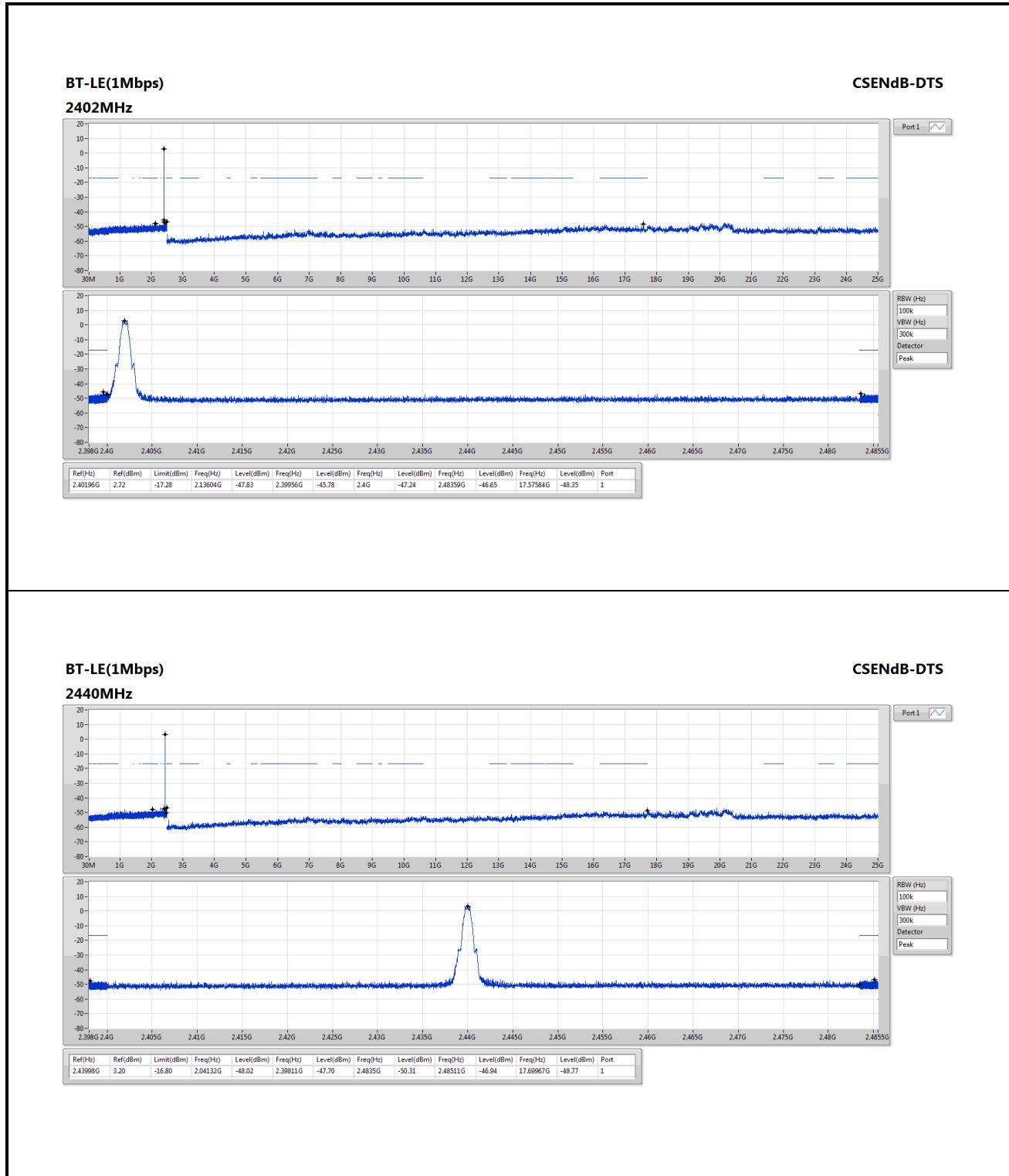
1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Scan Frequency range is up to 25GHz
4. Use the peak marker function to determine the maximum amplitude level

3.5.3 Test Setup



3.5.4 Test Result of Emissions in non-restricted Frequency Bands

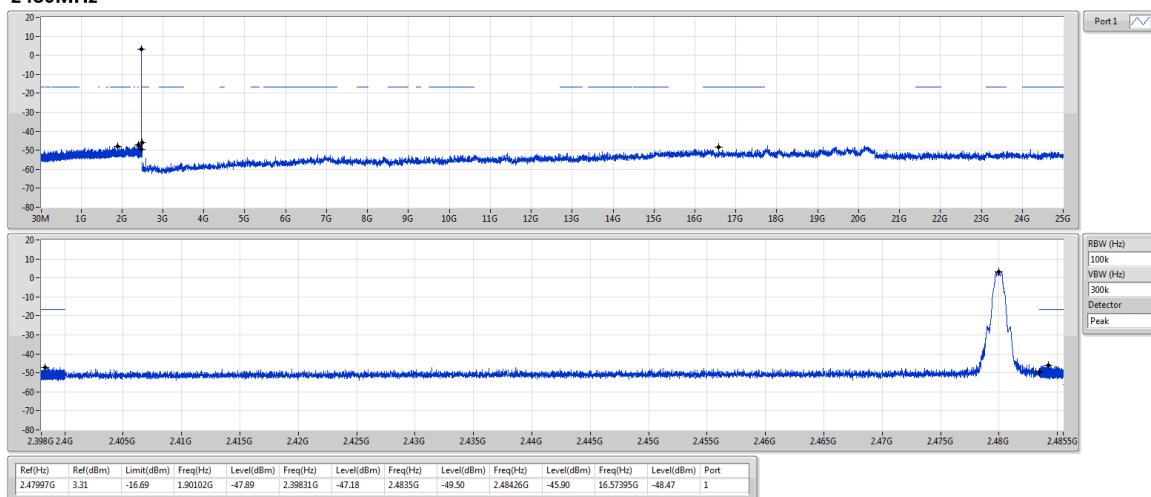
Ambient Condition	18°C / 65%	Tested By	Aska Huang
-------------------	------------	-----------	------------



BT-LE(1Mbps)

2480MHz

CSEndB-DTS



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.)

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

—END—