FCC Test Report

FCC ID	:	**ACQ-HC200**
Equipment	:	**HC200**
Model No.	:	**HC200**
Brand Name	:	**HomeSight**
Applicant	:	**ARRIS**
Address	:	**101 Tournament Drive, Horsham Pennsylvania,United States,19044**
Standard	:	**47 CFR FCC Part 15.247**
Received Date	:	**Oct. 01, 2021**
Tested Date	:	**Nov. 18 ~ Nov. 24, 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 shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by: **Approved by:**

Along Chen / Assistant Manager **Gary Chang / Manager**

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Release Record

Report No.	Version	Description	Issued Date
FR1O0103AE	Rev. 01	Initial issue	Jan. 25, 2022
FR1O0103AE	Rev. 02	Revising input power rating of adapter	Feb. 24, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.573MHz 34.85 (Margin -11.15dB) - AV	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 624.98MHz 41.46 (Margin -4.54dB) - PK	Pass
15.247(b)(3)	Maximum Output Power	Power [dBm]: 6.72	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

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	V5.0 LE	2402-2480	0-39 [40]	1 Mbps
2400-2483.5	V5.0 LE	2402-2480	0-39 [40]	2 Mbps
Note: Bluetooth LE (Low energy) uses GFSK modulation.				

1.1.2 Antenna Details

Ant. No.	Model	Type	Connector	Antenna Gain (dBi)
1	PSA/WA-F-LB-02-288	FPC Antenna	UFL	3.76

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12V from adapter

1.1.4 Accessories

Accessories		
No.	**Equipment**	**Description**
1	AC adapter	Brand: NetBit Model: NPD20AD5 Power Rating: I/P: 100-240V~, 50/60Hz, 0.5A O/P: 20.04W 12.0V 1.67A;5V 3.0A Power Line: 1.5m non-shielded without core
2	HDMI	1.73m shielded without core
3	USB type-C	1.8m shielded without core
4	Remote Control	Brand: Omni Remotes Model: RC4630501/01BRP

1.1.5 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

1.1.6 Test Tool and Duty Cycle

Test Tool	QRCT, V4.0.001720	
Modulation Mode	Duty Cycle Of Test Signal (%)	Duty Factor (dB)
BT-LE(1Mbps)	64.95%	1.87
BT-LE(2Mbps)	34.26%	4.65

1.1.7 Power Index of Test Tool

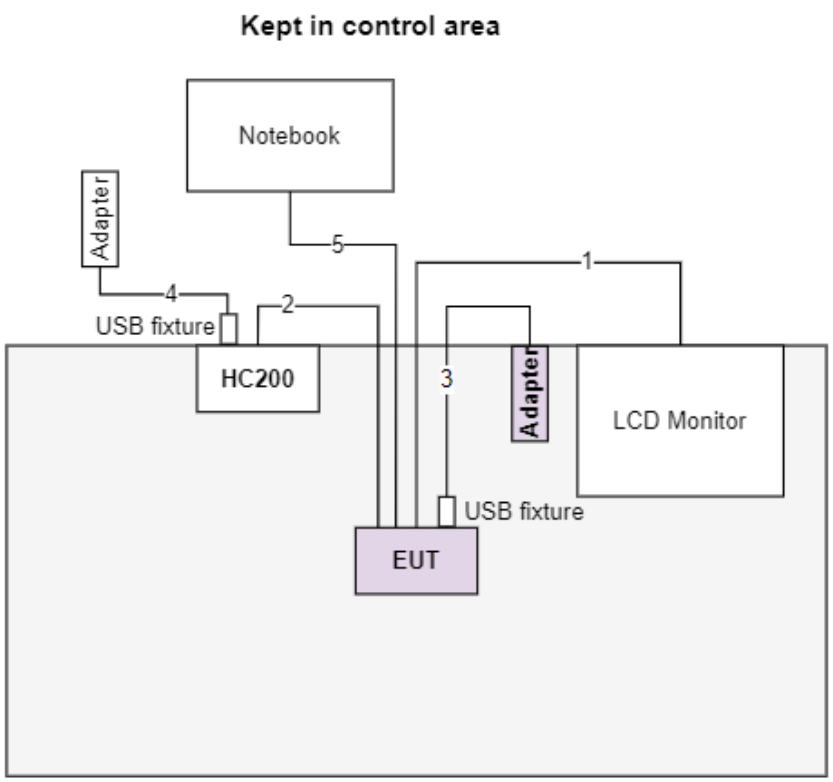
Modulation Mode	Test Frequency (MHz)		
	2402	2440	2480
BT-LE(1Mbps)	Default	Default	Default
BT-LE(2Mbps)	Default	Default	Default

1.2 Local Support Equipment List

Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Remarks**
1	Notebook	DELL	Latitude E5470	DoC	---
2	LCD Monitor	ASUS	MX27UCS	---	---
3	USB fixture	---	---	---	Provided by applicant.

1.3 Test Setup Chart

Test Setup Diagram



No.	Signal cable / Length (m)
1-2	HDMI, 1.73m shielded.
3-4	USB type-C, 1.8m shielded.
5	RJ45, 10m non-shielded.

1.4 Test Equipment List and Calibration Data

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Nov. 23, 2021				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101658	Feb. 08, 2021	Feb. 07, 2022
LISN	R&S	ENV216	101579	Mar. 17, 2021	Mar. 16, 2022
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Dec. 29, 2020	Dec. 28, 2021
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 19, 2021	Oct. 18, 2022
50 ohm terminal (Support Unit)	NA	50	04	May 25, 2021	May 24, 2022
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Nov. 18 ~ Nov. 19, 2021				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101657	Mar. 12, 2021	Mar. 11, 2022
Spectrum Analyzer	R&S	FSV40	101498	Dec. 04, 2020	Dec. 03, 2021
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jun. 30, 2021	Jun. 29, 2022
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 9170508	Dec. 31, 2020	Dec. 30, 2021
Preamplifier	EMC	EMC02325	980225	Jun. 29, 2021	Jun. 28, 2022
Preamplifier	Agilent	83017A	MY39501308	Sep. 28, 2021	Sep. 27, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 05, 2021	Oct. 04, 2022
LF cable 11M	EMC	EMCCFD400-NW-NW-11000	200801	Oct. 05, 2021	Oct. 04, 2022
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	160502	Oct. 05, 2021	Oct. 04, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 05, 2021	Oct. 04, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 05, 2021	Oct. 04, 2022
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)				
Tested Date	Nov. 24, 2021				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101498	Dec. 04, 2020	Dec. 03, 2021
Power Meter	Anritsu	ML2495A	1218007	Jan. 26, 2021	Jan. 25, 2022
Power Sensor	Anritsu	MA2411B	1207367	Jan. 26, 2021	Jan. 25, 2022
Measurement Software	Sporton	SENSE-15247_FS	V5.10.7.11	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
Conducted emission	±2.715 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	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.: 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)	Test Configuration
AC Power Line Conducted Emissions Radiated Emissions ≤ 1GHz	BT-LE(2Mbps)	2440	---
Maximum Output Power 6dB bandwidth Power spectral density Radiated Emissions > 1GHz	BT-LE(1Mbps) BT-LE(2Mbps)	2402, 2440, 2480	---

3 Transmitter Test Results

3.1 Conducted Emissions

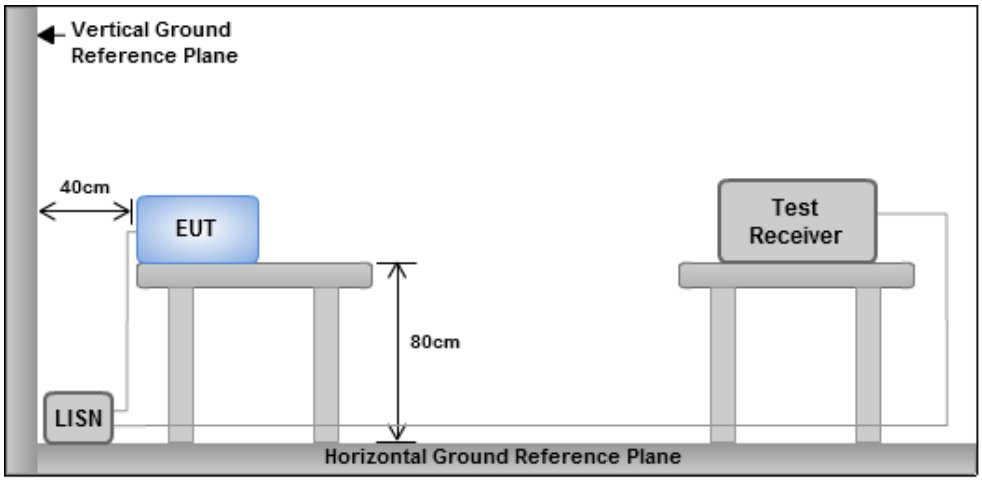
3.1.1 Limit of Conducted Emissions

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

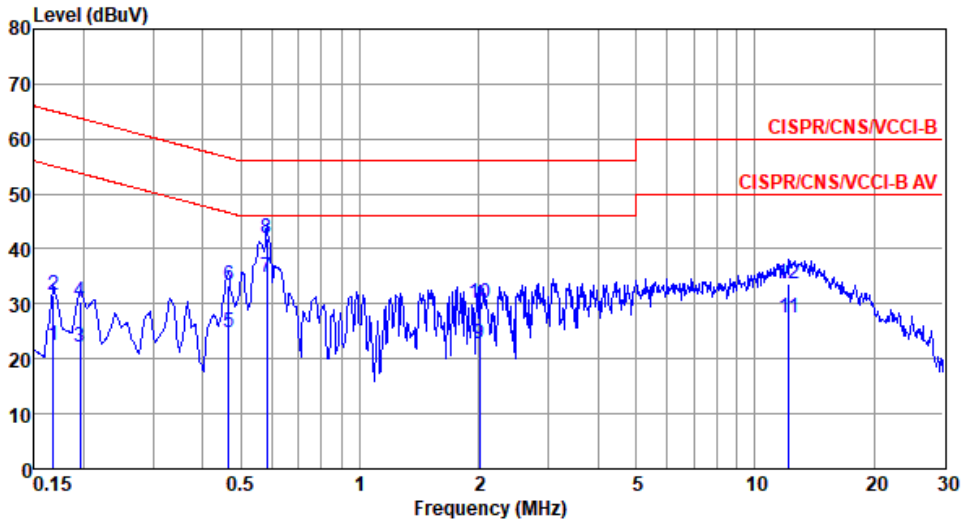


Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 Test Result of Conducted Emissions

Modulation	BT-LE(2Mbps)	Test Freq. (MHz)	2440
Power Phase	Line		

Test by : Brad Wu Temperature: 22°C Humidity: 62%

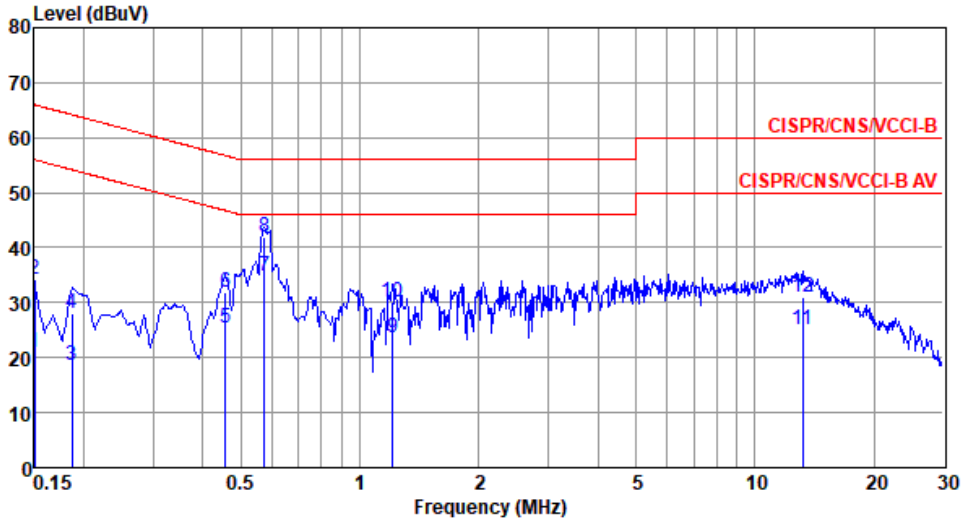


	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.168	22.33	55.08	-32.75	12.38	9.66	0.08	0.21	Average
2	0.168	31.68	65.08	-33.40	21.73	9.66	0.08	0.21	QP
3	0.195	22.17	53.80	-31.63	12.22	9.65	0.08	0.22	Average
4	0.195	30.42	63.80	-33.38	20.47	9.65	0.08	0.22	QP
5	0.466	24.79	46.58	-21.79	14.70	9.64	0.09	0.36	Average
6	0.466	33.27	56.58	-23.31	23.18	9.64	0.09	0.36	QP
7*	0.582	34.75	46.00	-11.25	24.64	9.64	0.11	0.36	Average
8	0.582	41.94	56.00	-14.06	31.83	9.64	0.11	0.36	QP
9	2.012	22.63	46.00	-23.37	12.38	9.66	0.20	0.39	Average
10	2.012	30.21	56.00	-25.79	19.96	9.66	0.20	0.39	QP
11	12.188	27.36	50.00	-22.64	16.68	9.70	0.50	0.48	Average
12	12.188	33.59	60.00	-26.41	22.91	9.70	0.50	0.48	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	BT-LE(2Mbps)	Test Freq. (MHz)	2440
Power Phase	Neutral		

Test by : Brad Wu Temperature: 22°C Humidity: 62%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.150	20.84	56.00	-35.16	10.91	9.69	0.08	0.16	Average
2	0.150	34.36	66.00	-31.64	24.43	9.69	0.08	0.16	QP
3	0.186	18.57	54.20	-35.63	8.64	9.68	0.08	0.17	Average
4	0.186	28.11	64.20	-36.09	18.18	9.68	0.08	0.17	QP
5	0.456	25.45	46.76	-21.31	15.49	9.67	0.09	0.20	Average
6	0.456	31.85	56.76	-24.91	21.89	9.67	0.09	0.20	QP
7*	0.573	34.85	46.00	-11.15	24.84	9.67	0.11	0.23	Average
8	0.573	42.07	56.00	-13.93	32.06	9.67	0.11	0.23	QP
9	1.210	23.57	46.00	-22.43	13.43	9.68	0.17	0.29	Average
10	1.210	29.98	56.00	-26.02	19.84	9.68	0.17	0.29	QP
11	13.197	25.19	50.00	-24.81	14.44	9.79	0.52	0.44	Average
12	13.197	31.11	60.00	-28.89	20.36	9.79	0.52	0.44	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

3.2 6dB and Occupied Bandwidth

3.2.1 Limit of 6dB Bandwidth

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

3.2.2 Test Procedures

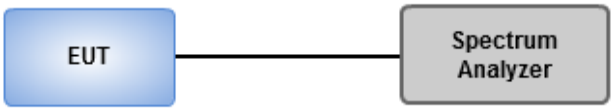
6dB Bandwidth

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.

3.2.3 Test Setup



3.2.4 Test Result of 6dB and Occupied Bandwidth

Ambient Condition	20°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)	663.043k	1.027M	1M03F1D	663.043k	1.024M
BT-LE(2Mbps)	1.145M	2.033M	2M03F1D	1.13M	2.026M

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

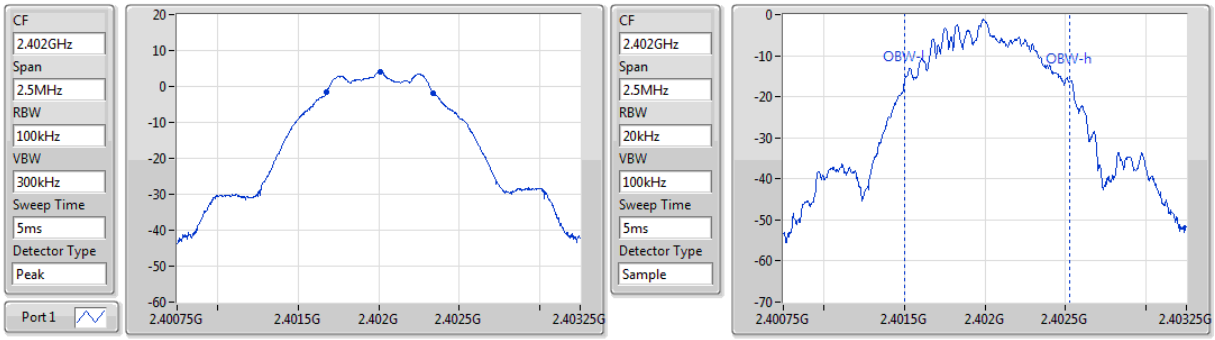
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	663.043k	1.024M
2440MHz	Pass	500k	663.043k	1.024M
2480MHz	Pass	500k	663.043k	1.027M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.138M	2.033M
2440MHz	Pass	500k	1.145M	2.026M
2480MHz	Pass	500k	1.13M	2.033M

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

BT-LE(1Mbps) **EBW-DTS**

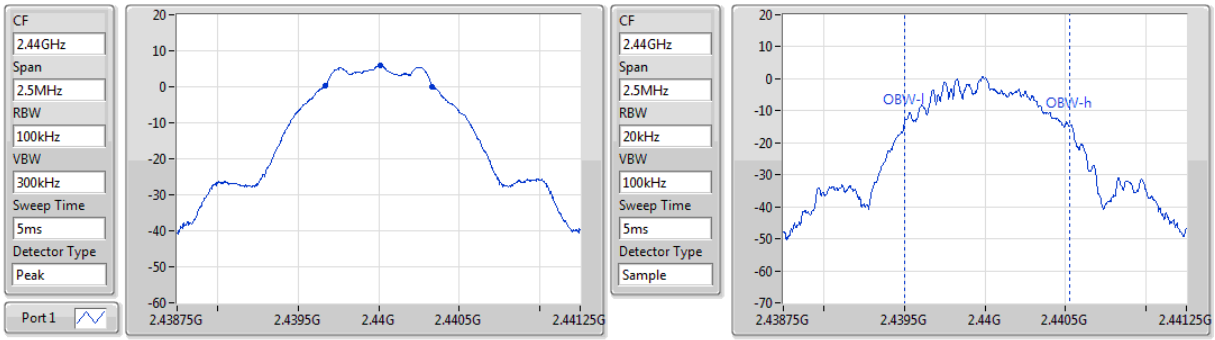
2402MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
663.043k	2.401674G	2.402337G	1.024M	2.401504G	2.402528G	500k	1

BT-LE(1Mbps) **EBW-DTS**

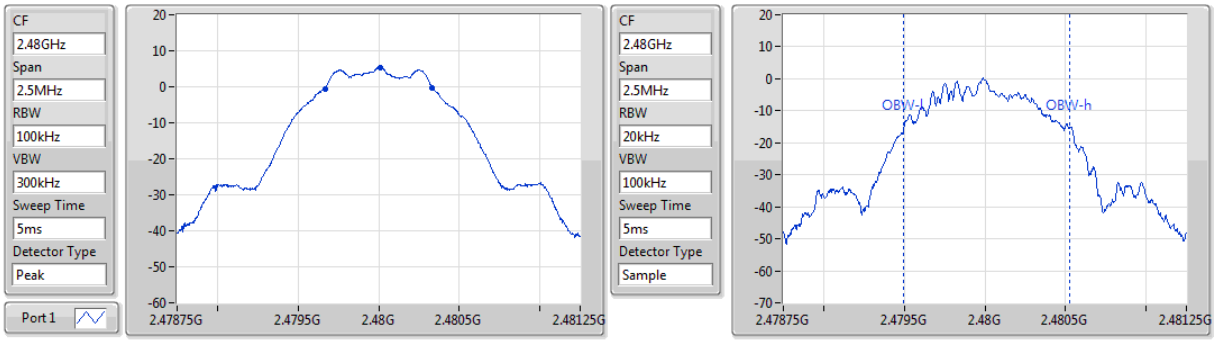
2440MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
663.043k	2.43967G	2.440333G	1.024M	2.439501G	2.440525G	500k	1

BT-LE(1Mbps) **EBW-DTS**

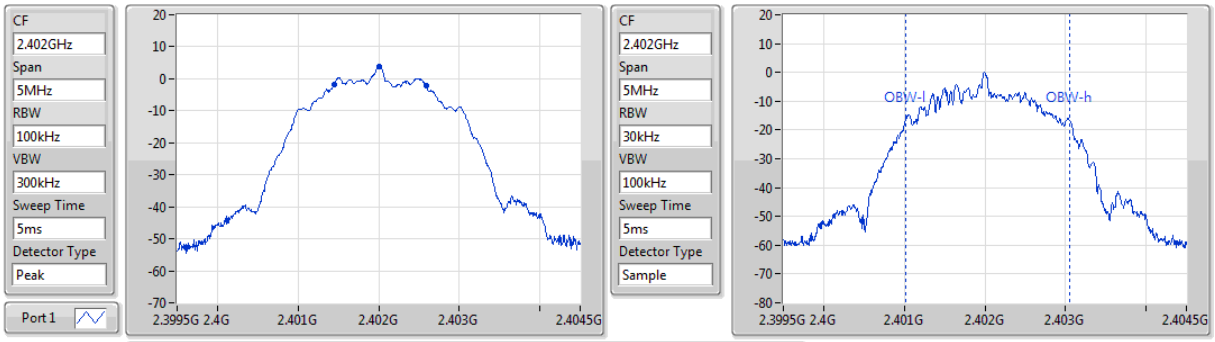
2480MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
663.043k	2.479667G	2.48033G	1.027M	2.479497G	2.480525G	500k	1

BT-LE(2Mbps) **EBW-DTS**

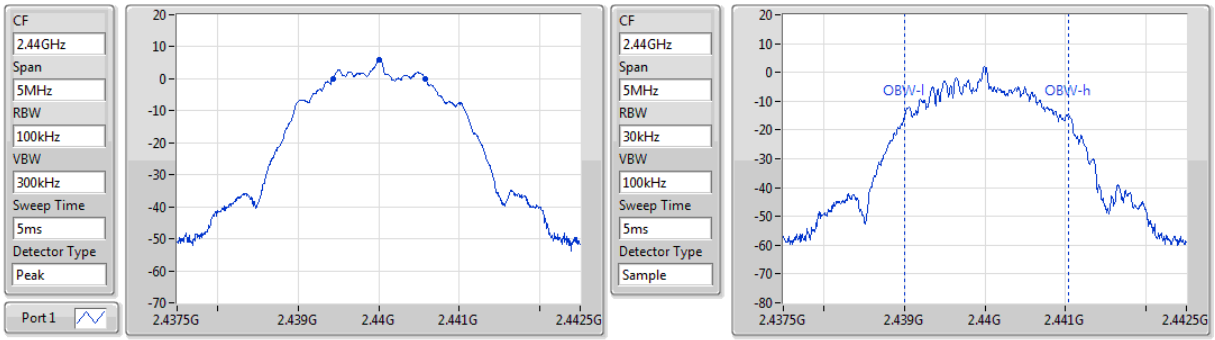
2402MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.138M	2.401449G	2.402587G	2.033M	2.401016G	2.403049G	500k	1

BT-LE(2Mbps) **EBW-DTS**

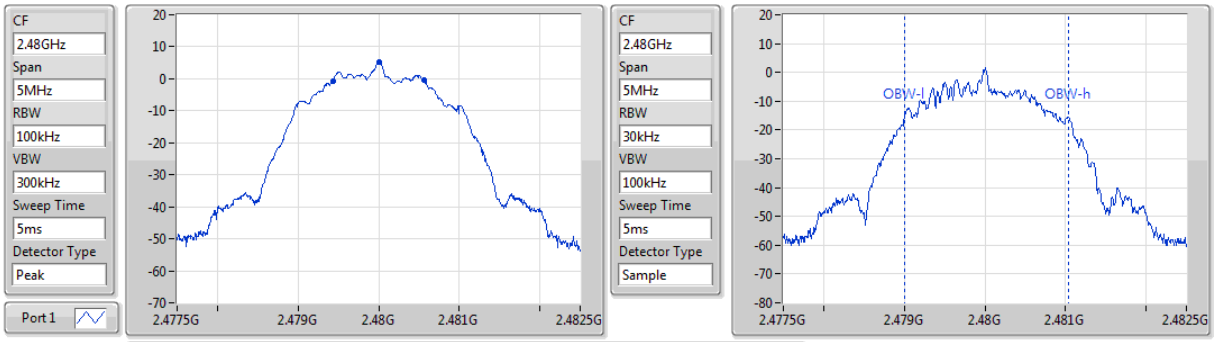
2440MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.145M	2.439435G	2.44058G	2.026M	2.439009G	2.441035G	500k	1

BT-LE(2Mbps) **EBW-DTS**

2480MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.13M	2.479435G	2.480565G	2.033M	2.479001G	2.481035G	500k	1

3.3 RF Output Power

3.3.1 Limit of RF Output Power

Conducted power shall not exceed 1 Watt.

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

3.3.2 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.

3.3.3 Test Setup

3.3.4 Test Result of Maximum Output Power

Ambient Condition	20°C / 65%	Tested By	Aska Huang

Summary of Peak Conducted Output Power

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	6.52	0.00449
BT-LE(2Mbps)	**6.72**	0.00470

Result

Mode	Result	Antenna Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.76	4.84	30.00
2440MHz	Pass	3.76	6.52	30.00
2480MHz	Pass	3.76	5.85	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.76	4.97	30.00
2440MHz	Pass	3.76	**6.72**	30.00
2480MHz	Pass	3.76	6.09	30.00

Summary of Conducted (Average) Output Power

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	**6.35**	0.00432
BT-LE(2Mbps)	6.26	0.00423

Result

Mode	Result	Antenna Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.76	4.52	-
2440MHz	Pass	3.76	6.35	-
2480MHz	Pass	3.76	5.70	-
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.76	4.41	-
2440MHz	Pass	3.76	6.26	-
2480MHz	Pass	3.76	5.62	-

Note: Average power is for reference only.

3.4 Power Spectral Density

3.4.1 Limit of Power Spectral Density

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

3.4.2 Test Procedures

Peak PSD

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.

Average PSD, duty cycle ≥ 98%

1. Set the RBW = 30 kHz, VBW = 100 kHz.
2. Detector = RMS, Sweep time = auto couple.
3. Sweep time = auto couple.
4. Employ trace averaging (RMS) mode over a minimum of 100 traces.
5. Use the peak marker function to determine the maximum amplitude level.

Average PSD, duty cycle < 98%

1 Set the RBW = 30 kHz, VBW = 100 kHz. Detector = RMS.

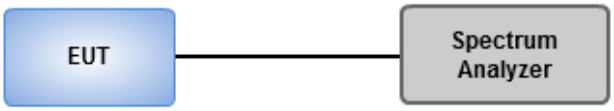
2 Set the sweep time to: ≥ 10 (number of measurement points in sweep) x (total on/off period of the transmitted signal).

3 Perform the measurement over a single sweep.

4 Use the peak marker function to determine the maximum amplitude level.

5 Add 10 log (1/x), where x is the duty cycle.

3.4.3 Test Setup



3.4.4 Test Result of Power Spectral Density

Ambient Condition	20°C / 65%	Tested By	Aska Huang

Summary

Mode	PD (dBm/3kHz)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-8.53
BT-LE(2Mbps)	-12.32

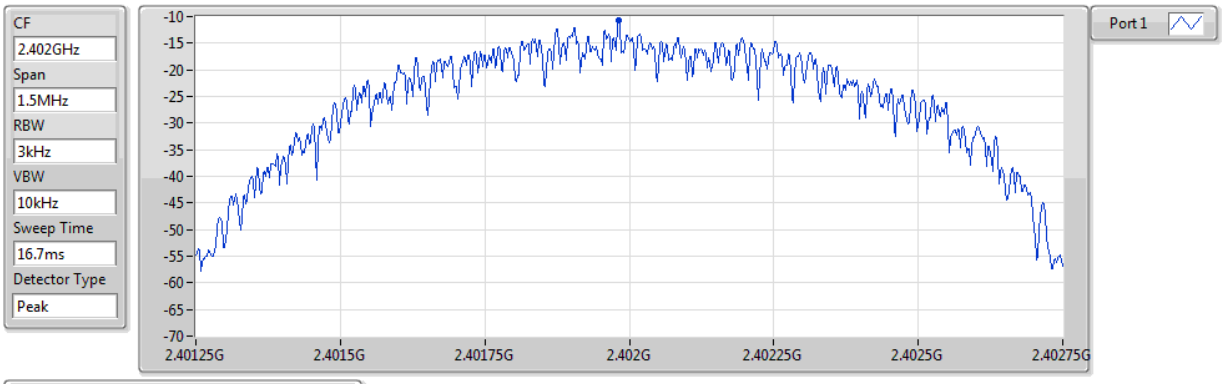
Result

Mode	Result	Antenna Gain (dBi)	PD (dBm/3kHz)	PD Limit (dBm/3kHz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.76	-10.63	8.00
2440MHz	Pass	3.76	-8.53	8.00
2480MHz	Pass	3.76	-9.22	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.76	-14.48	8.00
2440MHz	Pass	3.76	-12.32	8.00
2480MHz	Pass	3.76	-13.09	8.00

PD = Power density;

BT-LE(1Mbps) **PSD**

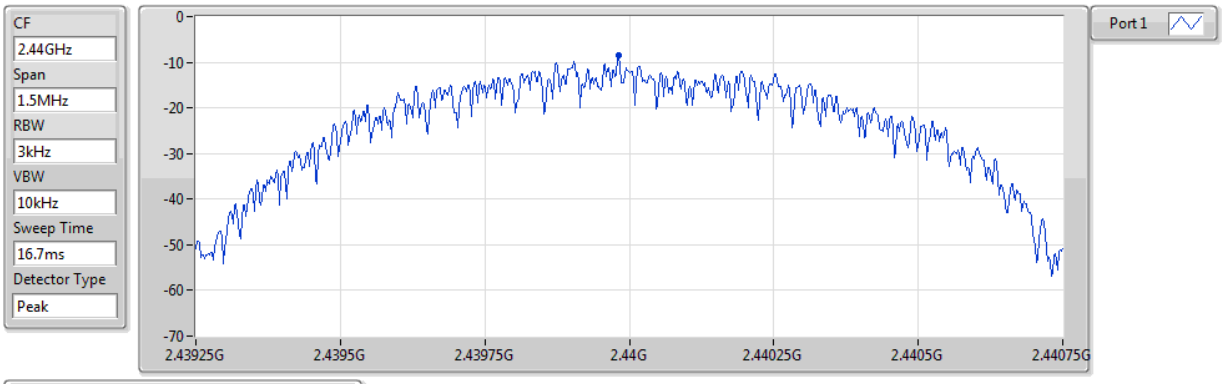
2402MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.63	-10.63	-10.63

BT-LE(1Mbps) **PSD**

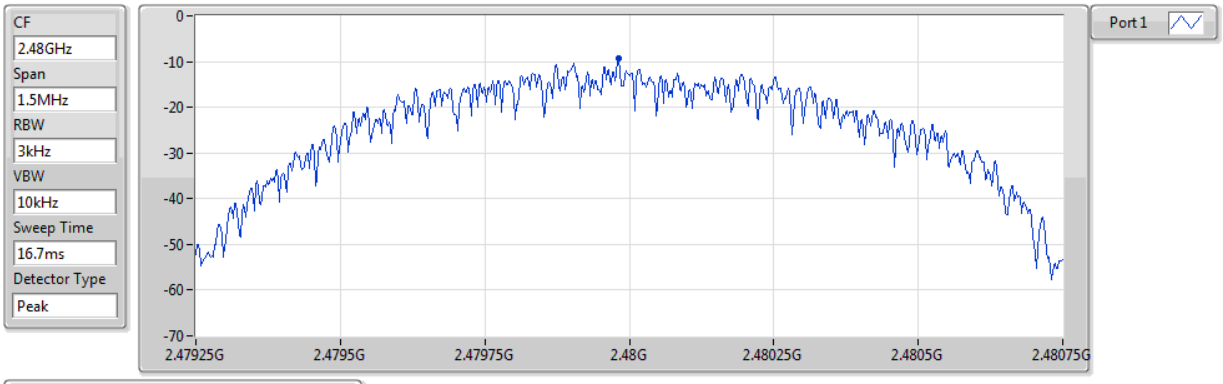
2440MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.53	-8.53	-8.53

BT-LE(1Mbps) **PSD**

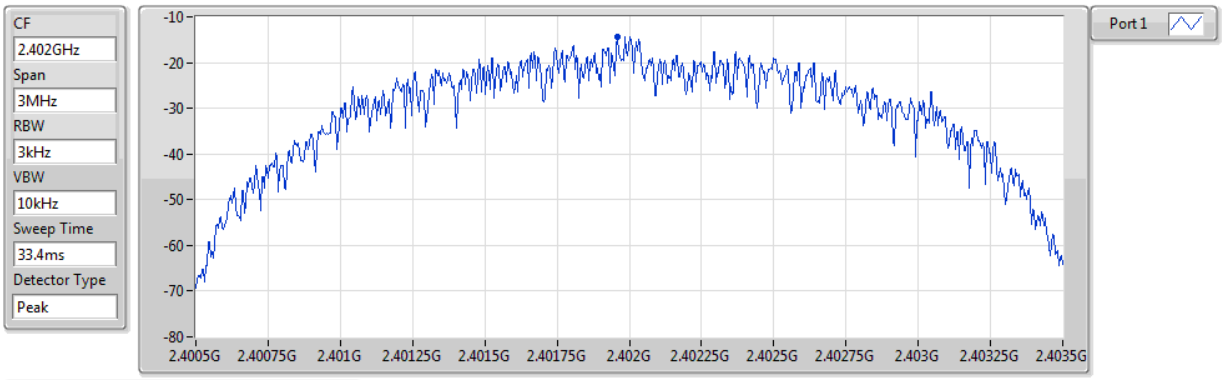
2480MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.22	-9.22	-9.22

BT-LE(2Mbps) **PSD**

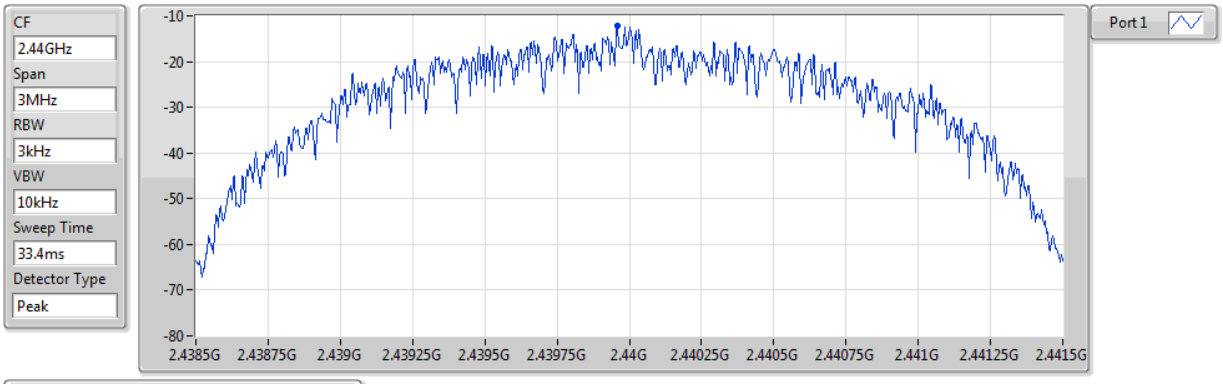
2402MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-14.48	-14.48	-14.48

BT-LE(2Mbps) **PSD**

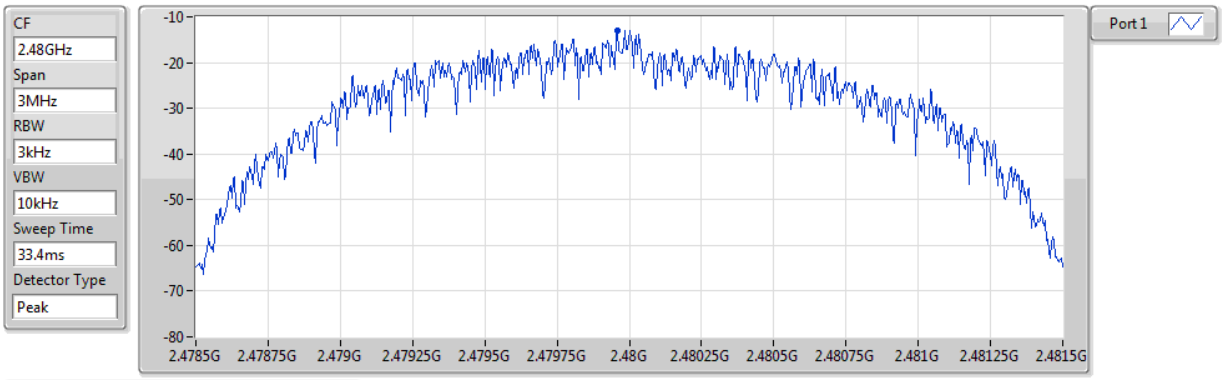
2440MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.32	-12.32	-12.32

BT-LE(2Mbps) **PSD**

2480MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-13.09	-13.09	-13.09

3.5 Emissions in Restricted Frequency Bands

3.5.1 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
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.

3.5.2 Test Procedures

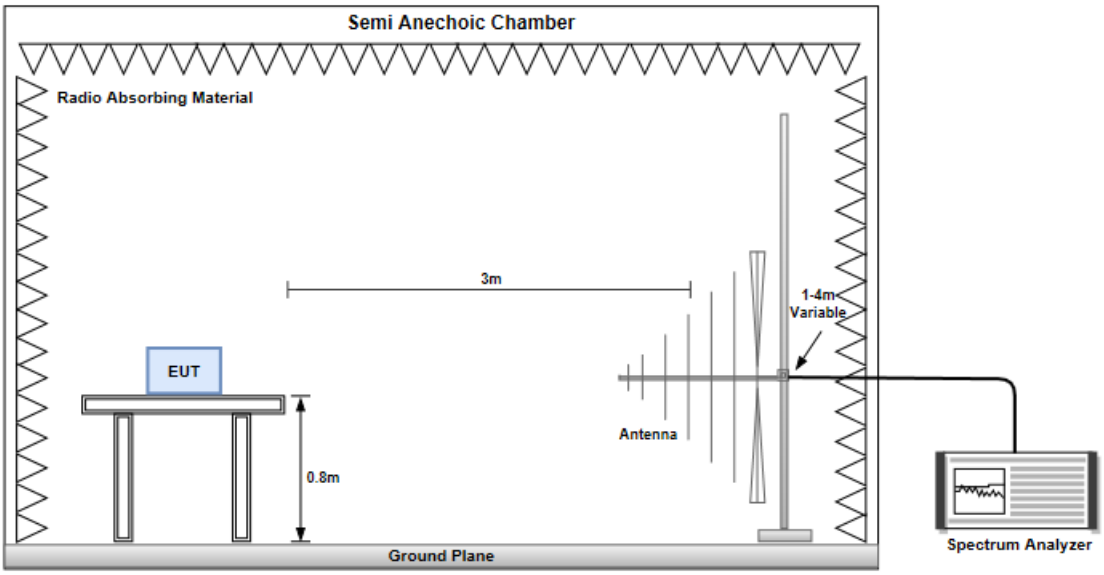
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

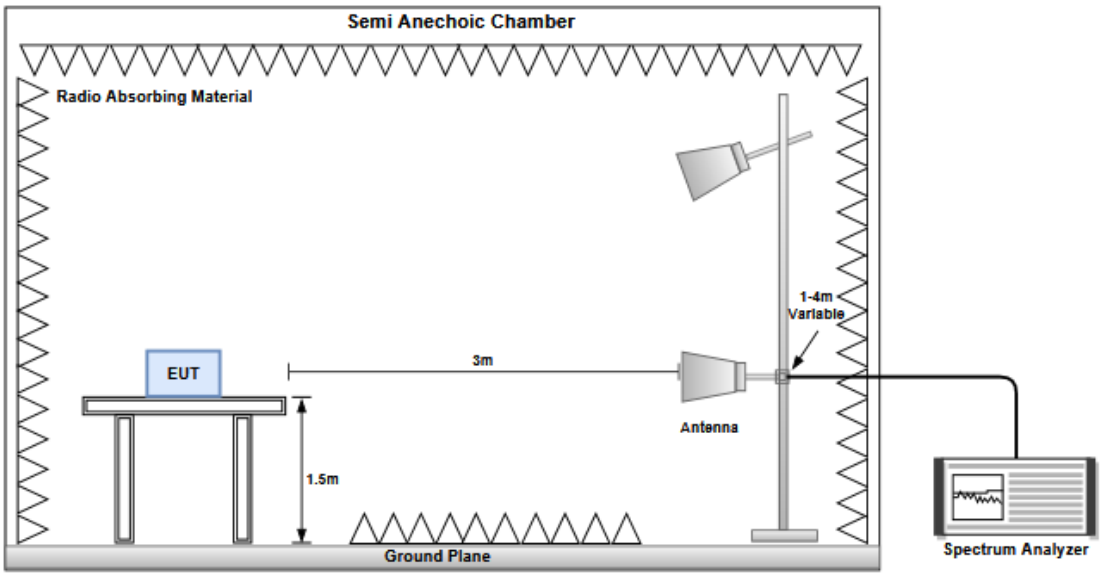
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



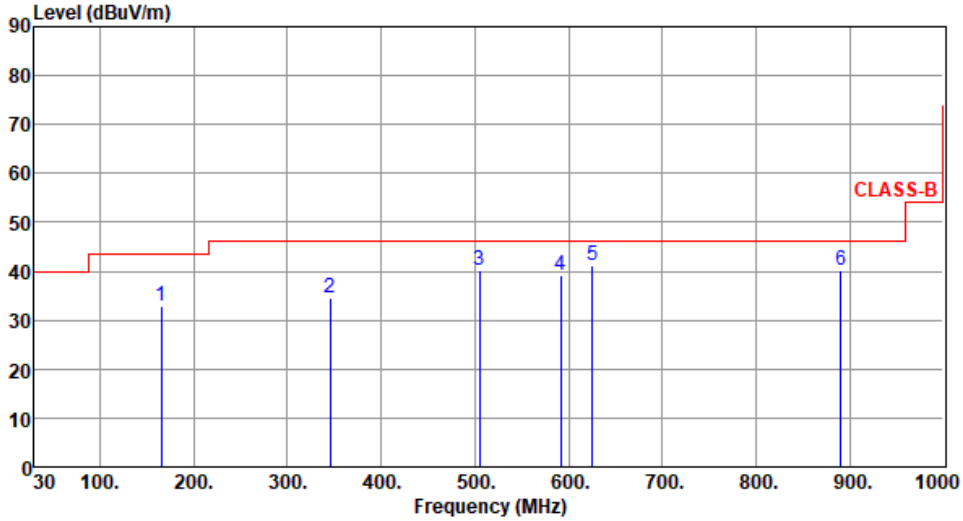
Radiated Emissions above 1 GHz



3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	BT-LE (2Mbps)	**Test Freq. (MHz)**	2440
Polarization	Horizontal		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

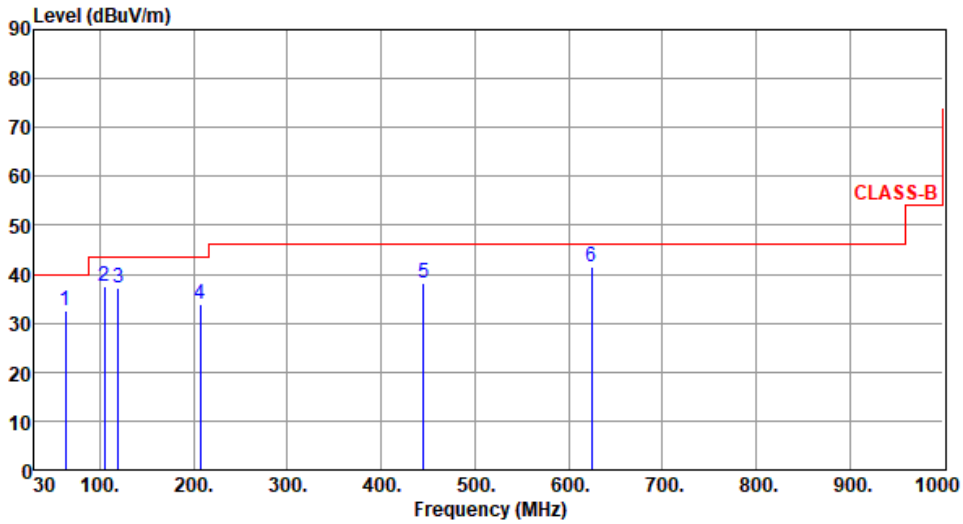


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	165.14	32.92	43.50	-10.58	41.80	-8.88	Peak	---	---
2	345.58	34.66	46.00	-11.34	41.85	-7.19	Peak	---	---
3	504.68	40.15	46.00	-5.85	43.34	-3.19	Peak	---	---
4	591.51	39.22	46.00	-6.78	40.56	-1.34	Peak	---	---
5	625.06	41.29	46.00	-4.71	41.74	-0.45	Peak	---	---
6	890.44	40.35	46.00	-5.65	37.10	3.25	Peak	---	---

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.

Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2440
Polarization	Vertical		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65



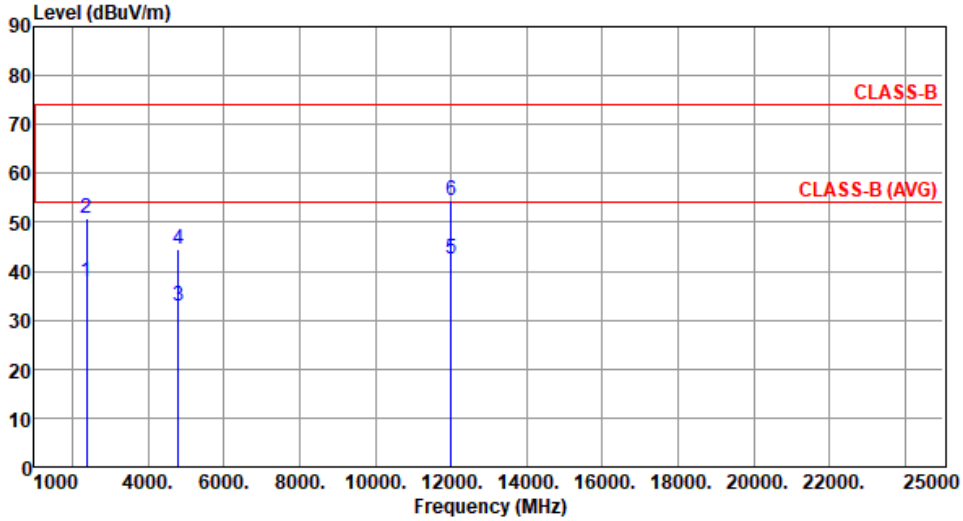
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	62.95	32.68	40.00	-7.32	42.33	-9.65	Peak	---	---
2	104.96	37.66	43.50	-5.84	50.01	-12.35	Peak	---	---
3	119.48	37.22	43.50	-6.28	47.92	-10.70	Peak	---	---
4	206.98	33.95	43.50	-9.55	45.91	-11.96	Peak	---	---
5	445.45	38.33	46.00	-7.67	42.68	-4.35	Peak	---	---
6	624.98	41.46	46.00	-4.54	41.92	-0.46	Peak	---	---

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.

3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation	BT-LE (1Mbps)	**Test Freq. (MHz)**	2402
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):65

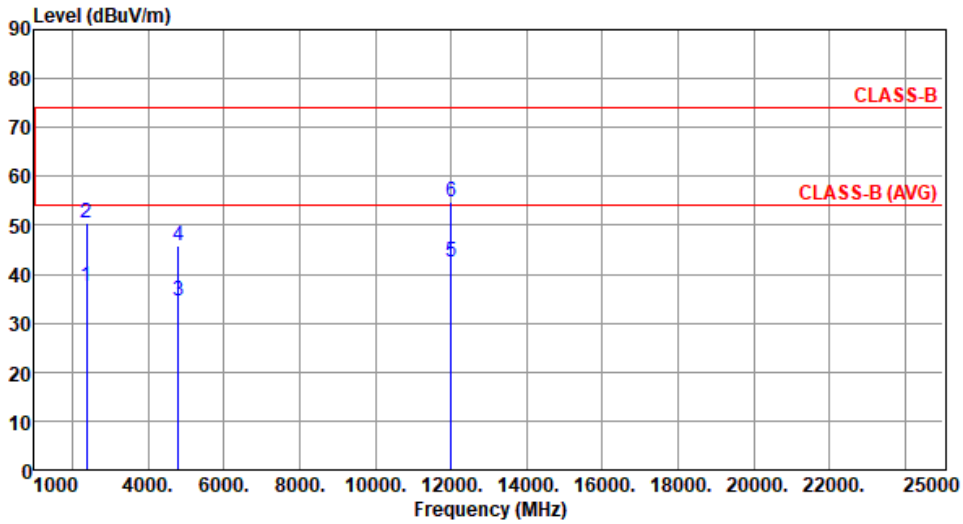


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	37.74	54.00	-16.26	40.57	-2.83	Average	300	31
2	2390.00	50.76	74.00	-23.24	53.59	-2.83	Peak	300	31
3	4804.00	33.03	54.00	-20.97	29.67	3.36	Average	133	123
4	4804.00	44.41	74.00	-29.59	41.05	3.36	Peak	133	123
5	12010.00	42.57	54.00	-11.43	29.27	13.30	Average	100	20
6	12010.00	54.44	74.00	-19.56	41.14	13.30	Peak	100	20

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(℃):23 Humidity(%):65

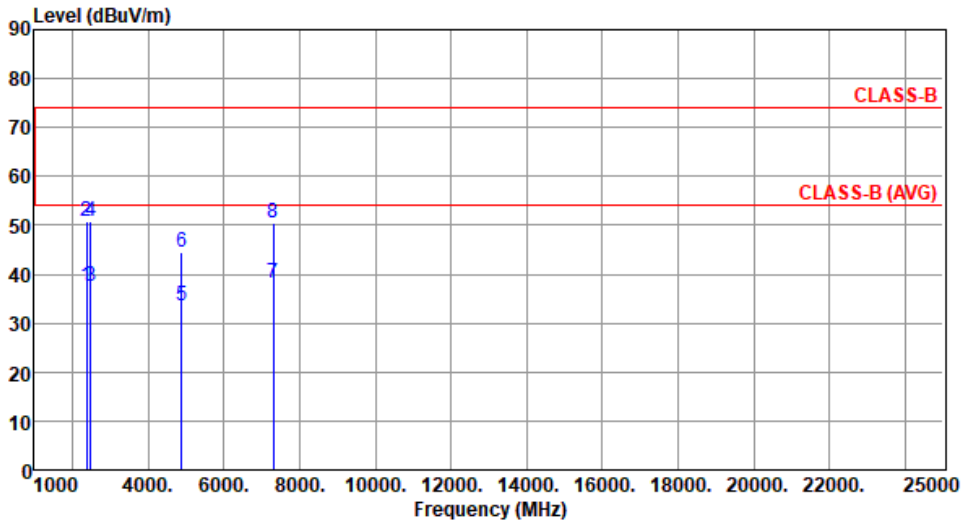


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	37.60	54.00	-16.40	40.43	-2.83	Average	105	55
2	2390.00	50.64	74.00	-23.36	53.47	-2.83	Peak	105	55
3	4804.00	34.61	54.00	-19.39	31.25	3.36	Average	100	356
4	4804.00	45.81	74.00	-28.19	42.45	3.36	Peak	100	356
5	12010.00	42.54	54.00	-11.46	29.24	13.30	Average	100	30
6	12010.00	54.87	74.00	-19.13	41.57	13.30	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(℃):23 Humidity(%):65

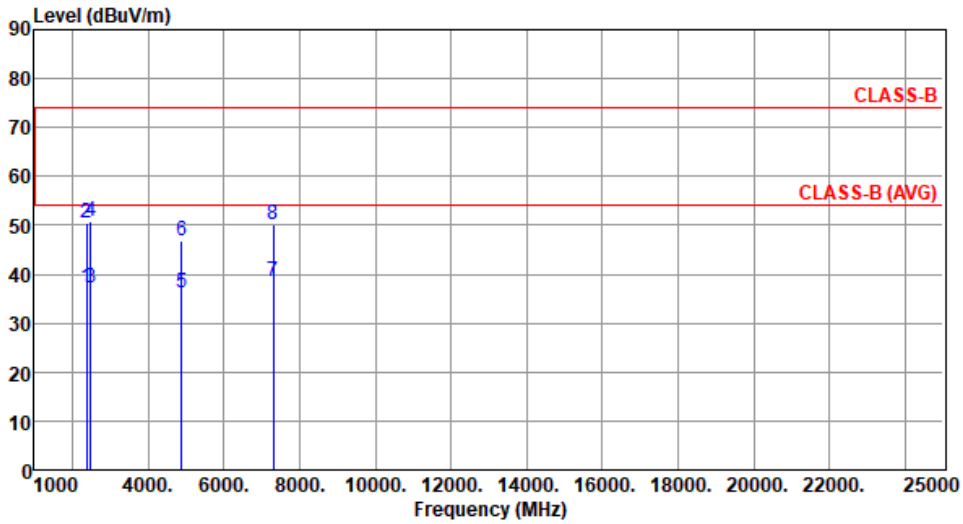


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	37.44	54.00	-16.56	40.27	-2.83	Average	356	36
2	2390.00	50.67	74.00	-23.33	53.50	-2.83	Peak	356	36
3	2483.50	37.37	54.00	-16.63	40.16	-2.79	Average	356	36
4	2483.50	50.90	74.00	-23.10	53.69	-2.79	Peak	356	36
5	4880.00	33.47	54.00	-20.53	30.15	3.32	Average	135	128
6	4880.00	44.66	74.00	-29.34	41.34	3.32	Peak	135	128
7	7320.00	38.23	54.00	-15.77	29.32	8.91	Average	100	60
8	7320.00	50.47	74.00	-23.53	41.56	8.91	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)	2440
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):65

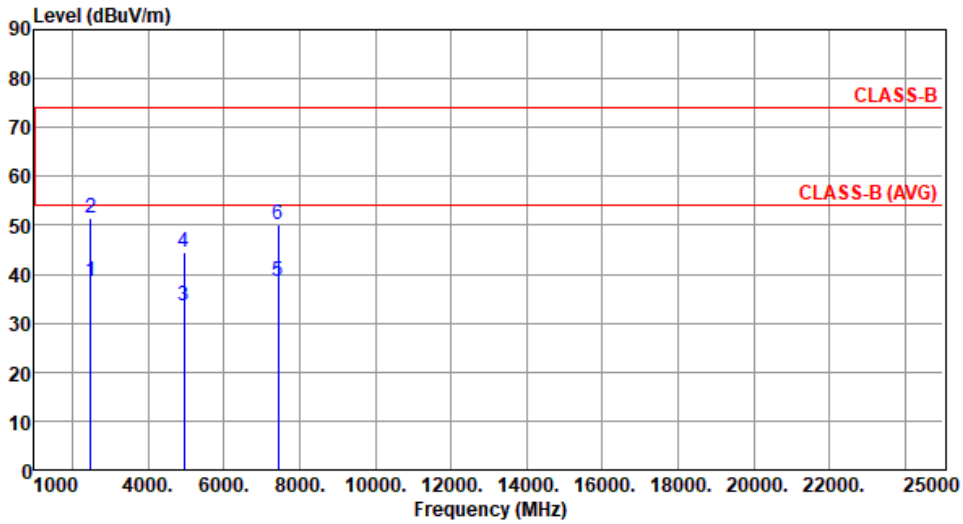


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	37.31	54.00	-16.69	40.14	-2.83	Average	108	56
2	2390.00	50.64	74.00	-23.36	53.47	-2.83	Peak	108	56
3	2483.50	37.27	54.00	-16.73	40.06	-2.79	Average	108	56
4	2483.50	50.71	74.00	-23.29	53.50	-2.79	Peak	108	56
5	4880.00	36.08	54.00	-17.92	32.76	3.32	Average	100	355
6	4880.00	46.88	74.00	-27.12	43.56	3.32	Peak	100	355
7	7320.00	38.49	54.00	-15.51	29.58	8.91	Average	100	55
8	7320.00	50.14	74.00	-23.86	41.23	8.91	Peak	100	55

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(℃):23 Humidity(%):65

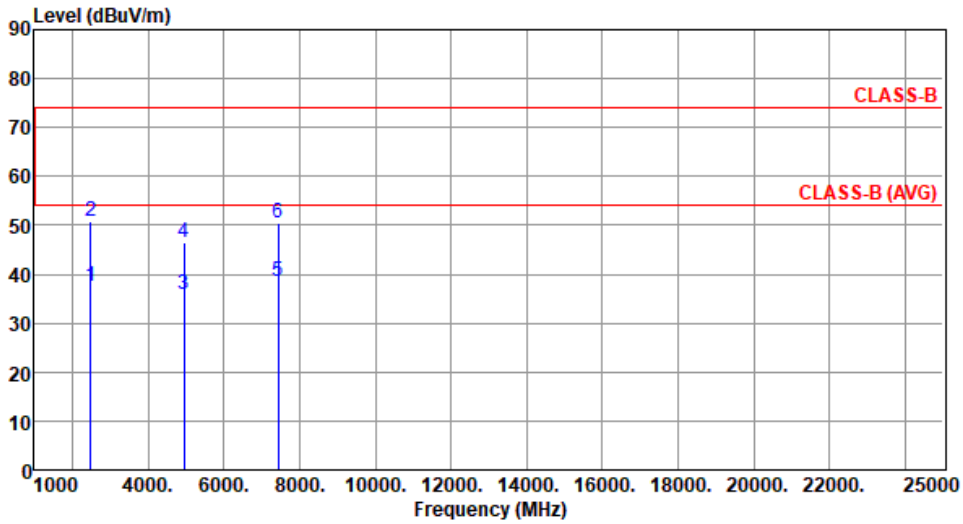


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	38.48	54.00	-15.52	41.27	-2.79	Average	356	37
2	2483.50	51.47	74.00	-22.53	54.26	-2.79	Peak	356	37
3	4960.00	33.61	54.00	-20.39	30.08	3.53	Average	136	126
4	4960.00	44.65	74.00	-29.35	41.12	3.53	Peak	136	126
5	7440.00	38.36	54.00	-15.64	29.45	8.91	Average	100	30
6	7440.00	50.22	74.00	-23.78	41.31	8.91	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)	2480
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):65

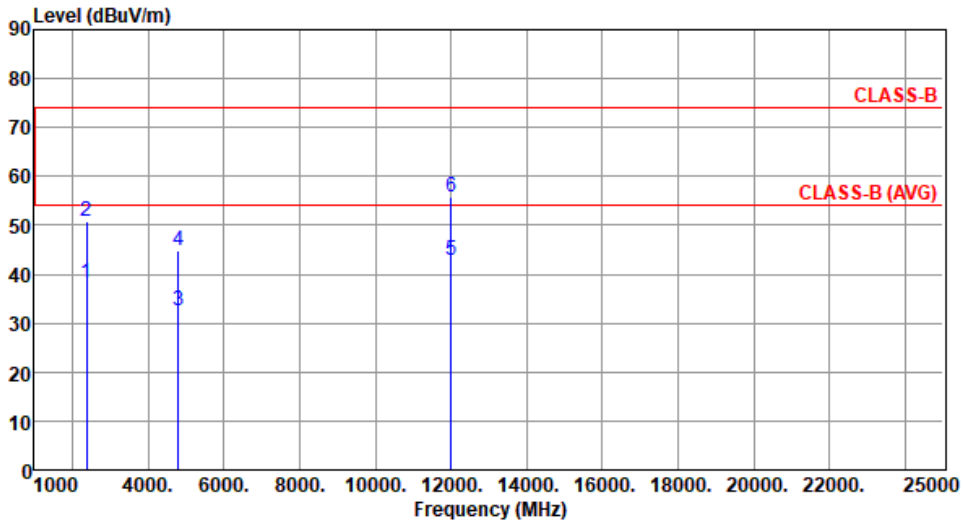


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	37.48	54.00	-16.52	40.27	-2.79	Average	107	54
2	2483.50	50.81	74.00	-23.19	53.60	-2.79	Peak	107	54
3	4960.00	35.99	54.00	-18.01	32.46	3.53	Average	100	354
4	4960.00	46.63	74.00	-27.37	43.10	3.53	Peak	100	354
5	7440.00	38.62	54.00	-15.38	29.71	8.91	Average	100	60
6	7440.00	50.33	74.00	-23.67	41.42	8.91	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 (2Mbps)	Test Freq. (MHz)	2402
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):65

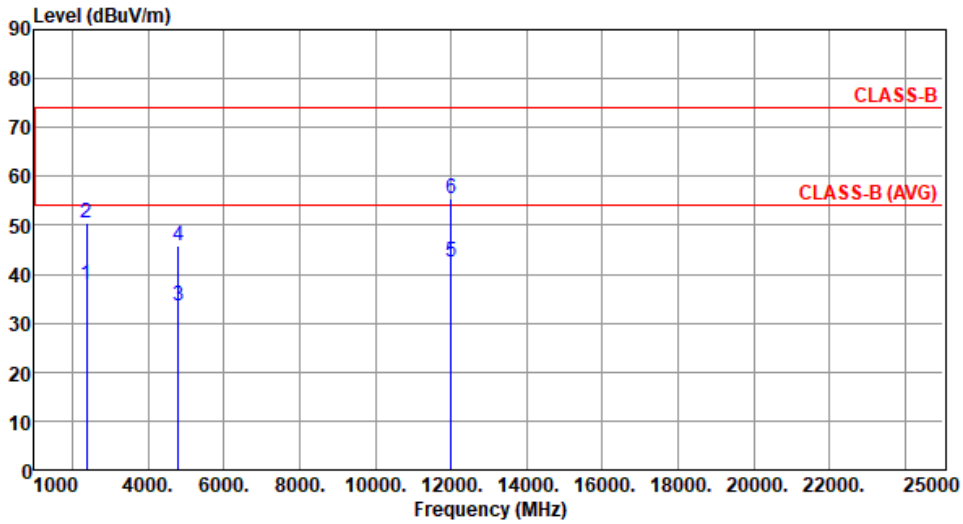


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	38.05	54.00	-15.95	40.88	-2.83	Average	279	36
2	2390.00	50.67	74.00	-23.33	53.50	-2.83	Peak	279	36
3	4804.00	32.51	54.00	-21.49	29.15	3.36	Average	100	125
4	4804.00	44.70	74.00	-29.30	41.34	3.36	Peak	100	125
5	12010.00	42.75	54.00	-11.25	29.45	13.30	Average	100	80
6	12010.00	55.77	74.00	-18.23	42.47	13.30	Peak	100	80

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 (2Mbps)	Test Freq. (MHz)	2402
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):65

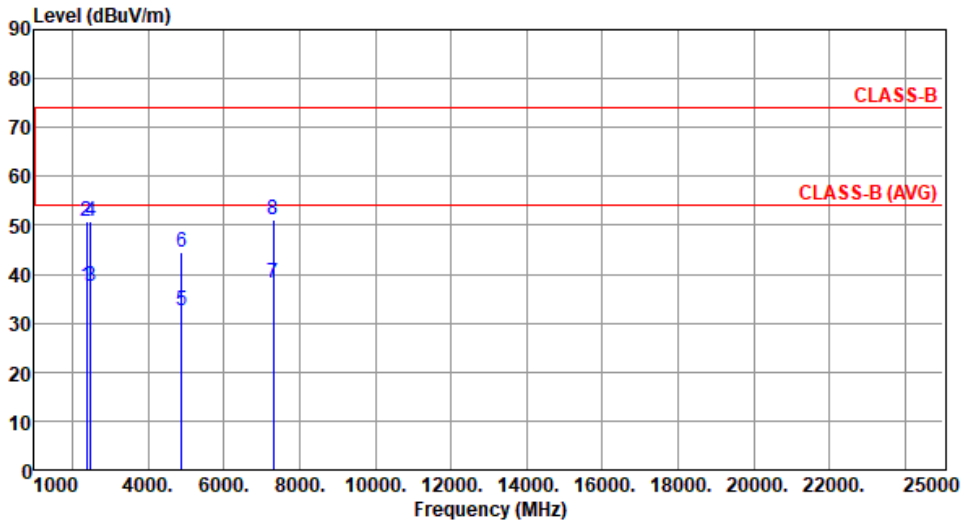


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	37.83	54.00	-16.17	40.66	-2.83	Average	106	57
2	2390.00	50.47	74.00	-23.53	53.30	-2.83	Peak	106	57
3	4804.00	33.61	54.00	-20.39	30.25	3.36	Average	100	358
4	4804.00	45.80	74.00	-28.20	42.44	3.36	Peak	100	358
5	12010.00	42.64	54.00	-11.36	29.34	13.30	Average	100	60
6	12010.00	55.60	74.00	-18.40	42.30	13.30	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 (2Mbps)	Test Freq. (MHz)	2440
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):65

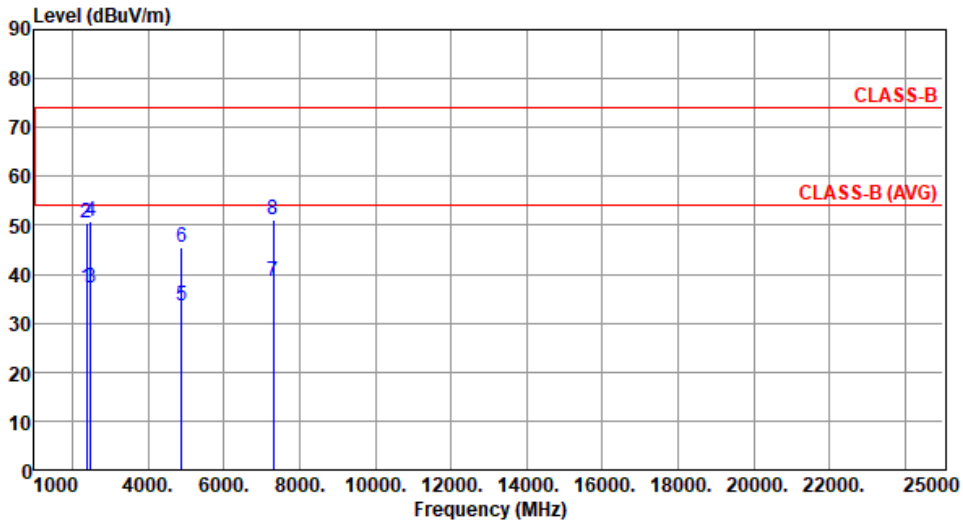


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	37.44	54.00	-16.56	40.27	-2.83	Average	325	30
2	2390.00	50.76	74.00	-23.24	53.59	-2.83	Peak	325	30
3	2483.50	37.37	54.00	-16.63	40.16	-2.79	Average	325	30
4	2483.50	50.87	74.00	-23.13	53.66	-2.79	Peak	325	30
5	4880.00	32.66	54.00	-21.34	29.34	3.32	Average	100	126
6	4880.00	44.66	74.00	-29.34	41.34	3.32	Peak	100	126
7	7320.00	38.26	54.00	-15.74	29.35	8.91	Average	100	40
8	7320.00	51.02	74.00	-22.98	42.11	8.91	Peak	100	40

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 (2Mbps)	Test Freq. (MHz)	2440
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):65

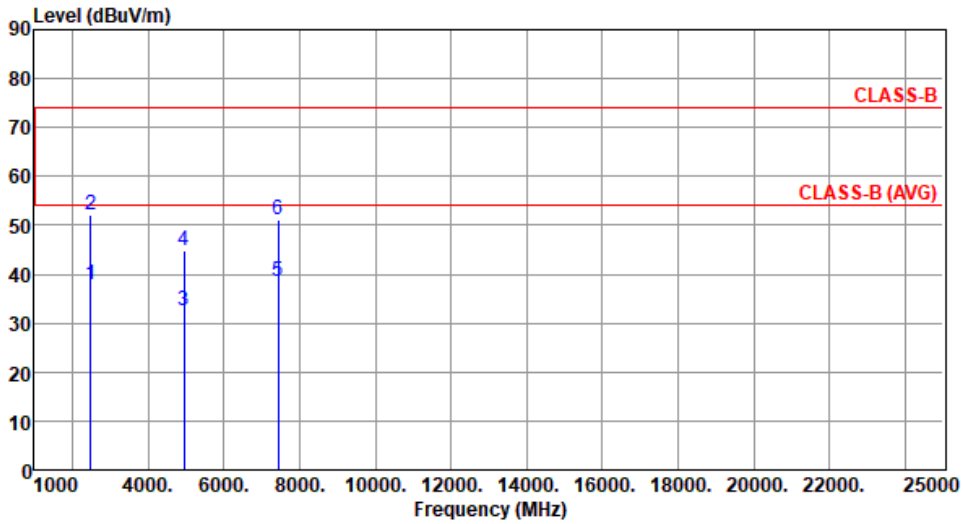


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	37.31	54.00	-16.69	40.14	-2.83	Average	103	52
2	2390.00	50.64	74.00	-23.36	53.47	-2.83	Peak	103	52
3	2483.50	37.24	54.00	-16.76	40.03	-2.79	Average	103	52
4	2483.50	50.68	74.00	-23.32	53.47	-2.79	Peak	103	52
5	4880.00	33.58	54.00	-20.42	30.26	3.32	Average	100	351
6	4880.00	45.63	74.00	-28.37	42.31	3.32	Peak	100	351
7	7320.00	38.37	54.00	-15.63	29.46	8.91	Average	100	80
8	7320.00	51.17	74.00	-22.83	42.26	8.91	Peak	100	80

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 (2Mbps)	Test Freq. (MHz)	2480
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):65

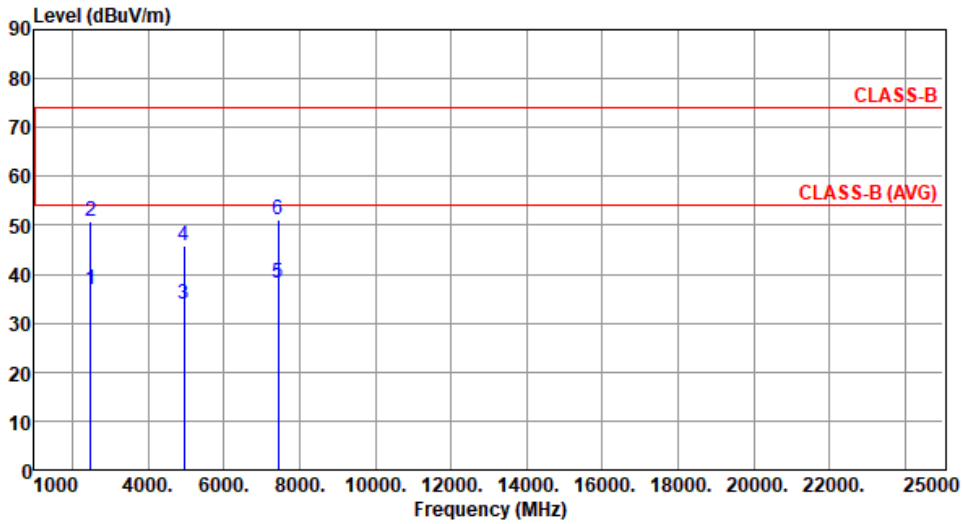


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	37.84	54.00	-16.16	40.63	-2.79	Average	324	33
2	2483.50	52.00	74.00	-22.00	54.79	-2.79	Peak	324	33
3	4960.00	32.56	54.00	-21.44	29.03	3.53	Average	100	122
4	4960.00	44.79	74.00	-29.21	41.26	3.53	Peak	100	122
5	7440.00	38.39	54.00	-15.61	29.48	8.91	Average	100	55
6	7440.00	51.17	74.00	-22.83	42.26	8.91	Peak	100	55

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 (2Mbps)	Test Freq. (MHz)	2480
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	36.80	54.00	-17.20	39.59	-2.79	Average	103	59
2	2483.50	50.86	74.00	-23.14	53.65	-2.79	Peak	103	59
3	4960.00	33.78	54.00	-20.22	30.25	3.53	Average	100	357
4	4960.00	45.72	74.00	-28.28	42.19	3.53	Peak	100	357
5	7440.00	38.23	54.00	-15.77	29.32	8.91	Average	100	40
6	7440.00	51.02	74.00	-22.98	42.11	8.91	Peak	100	40

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).

3.6 Emissions in non-restricted Frequency Bands

3.6.1 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

3.6.2 Test Procedures

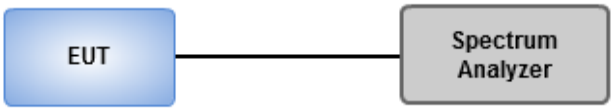
Reference level measurement

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

3.6.3 Test Setup

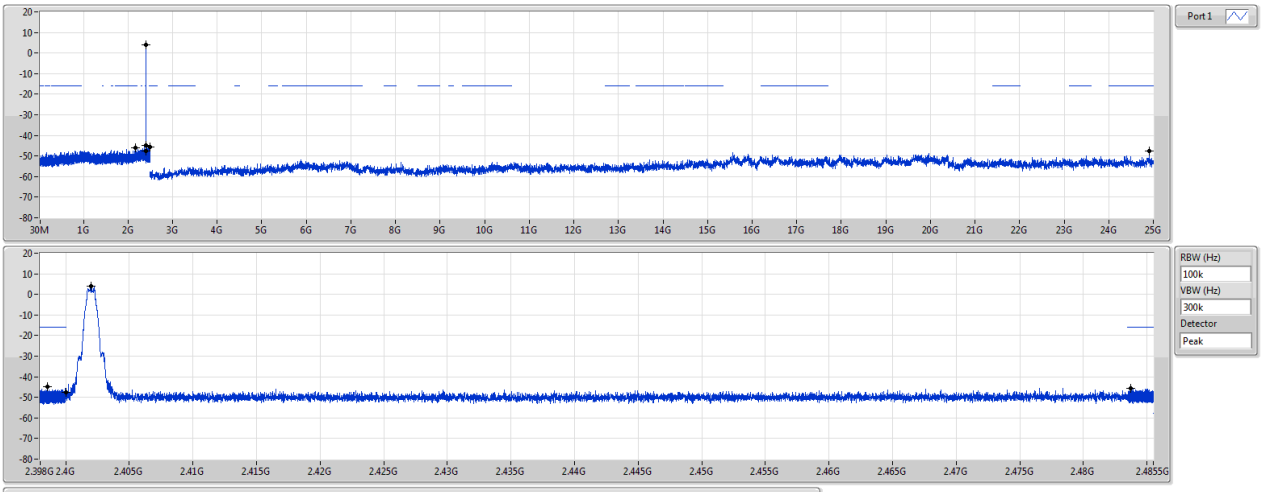


Ambient Condition	20°C / 65%	Tested By	Aska Huang

3.6.4 Test Result of Emissions in non-restricted Frequency Bands

BT-LE(1Mbps) **CSENdB-DTS**

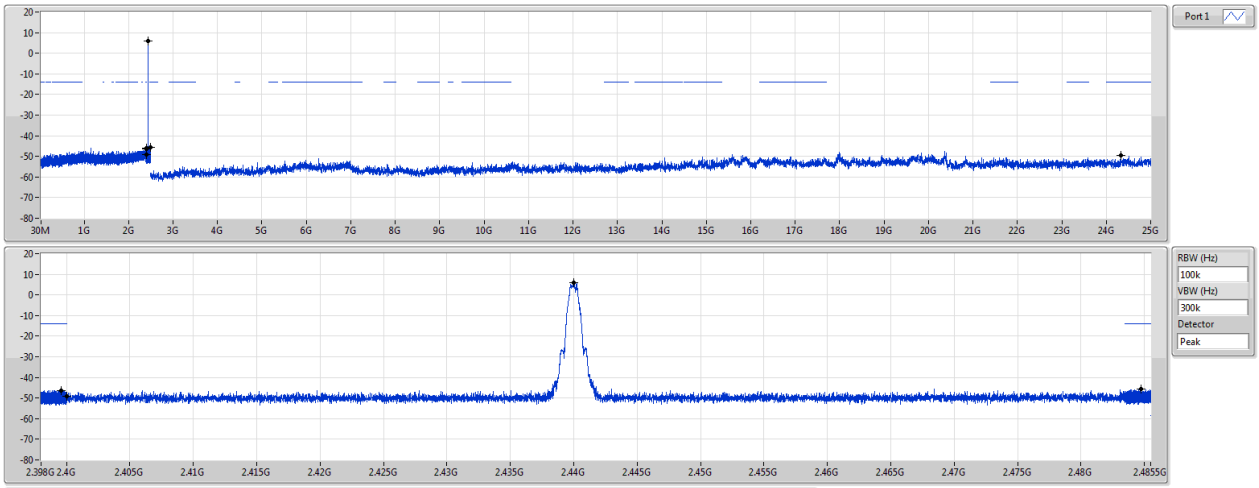
2402MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40199G	3.96	-16.04	2.17482G	-46.00	2.39855G	-45.00	2.4G	-47.69	2.4837G	-45.82	24.91557G	-47.69	1

BT-LE(1Mbps) **CSENdB-DTS**

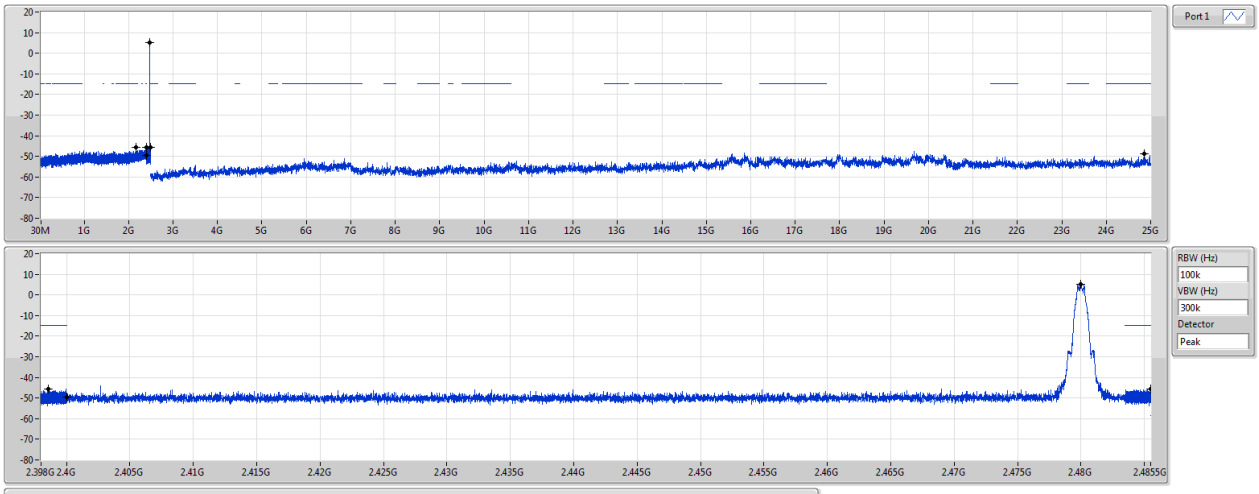
2440MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44001G	6.07	-13.93	2.39622G	-46.17	2.39958G	-46.31	2.4G	-49.22	2.48471G	-45.74	24.32175G	-49.72	1

BT-LE(1Mbps) **CSENdB-DTS**

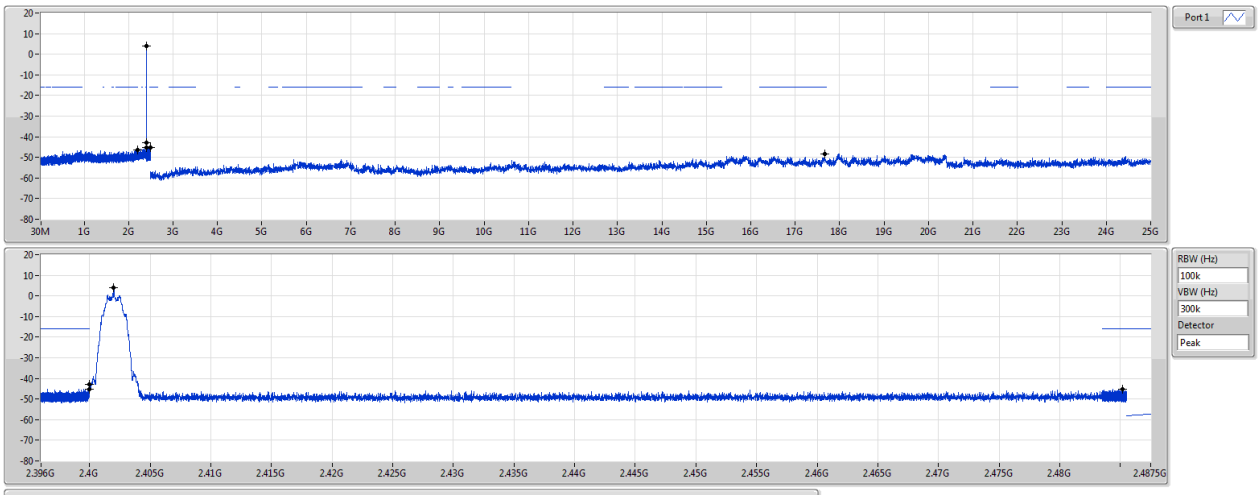
2480MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.48G	5.29	-14.71	2.15765G	-45.71	2.39859G	-45.50	2.4G	-49.65	2.4855G	-45.44	24.85084G	-48.75	1

BT-LE(2Mbps) **CSENdB-DTS**

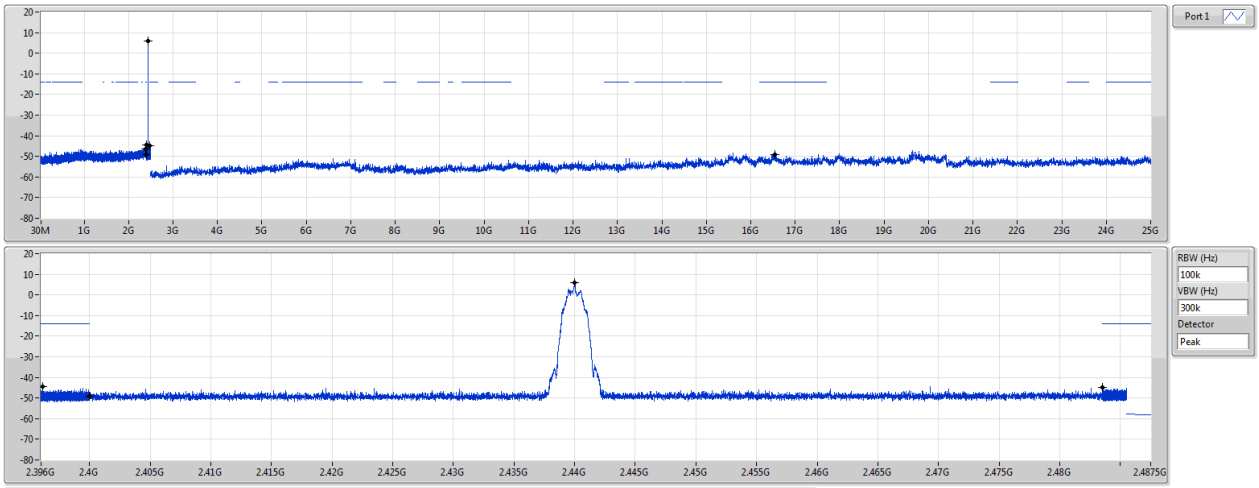
2402MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.402G	3.89	-16.11	2.19459G	-46.38	2.39997G	-42.76	2.4G	-45.07	2.48518G	-45.26	17.66309G	-48.21	1

BT-LE(2Mbps) **CSENdB-DTS**

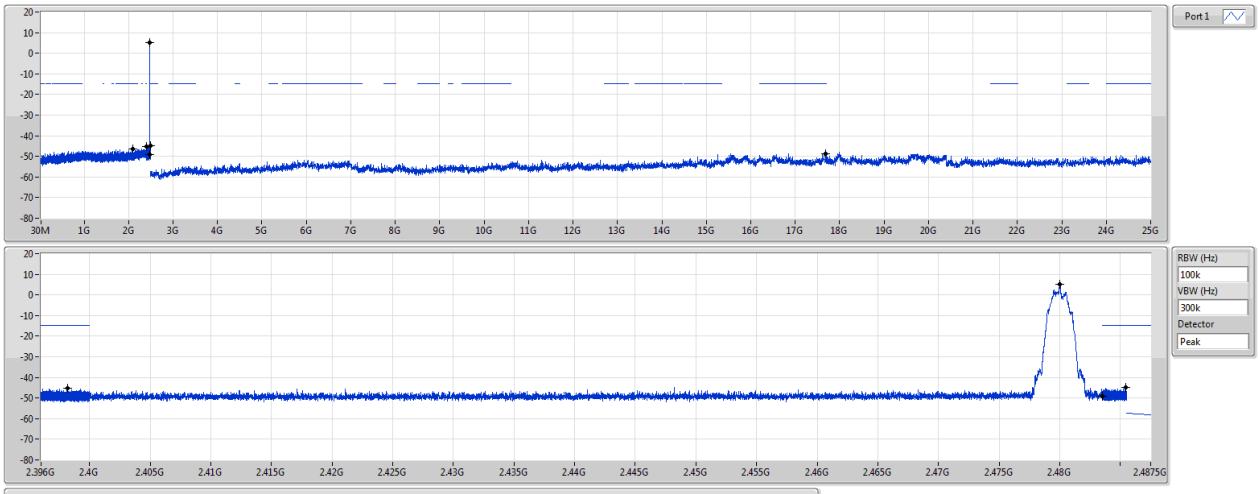
2440MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44001G	5.94	-14.06	2.39068G	-46.29	2.39614G	-44.48	2.4G	-49.03	2.48352G	-44.72	16.53736G	-48.99	1

BT-LE(2Mbps) **CSENdB-DTS**

2480MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.48001G	5.24	-14.76	2.08694G	-46.43	2.3982G	-45.38	2.4835G	-49.23	2.48541G	-44.89	17.68842G	-48.72	1

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: 886-3-318-0345
Email: ICC_Service@icertifi.com.tw

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