

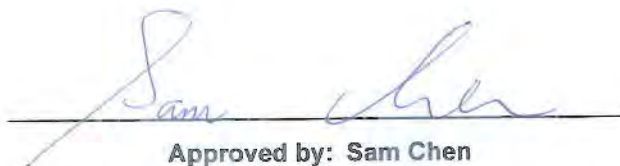


JAPAN RADIO TEST REPORT

Equipment : MAP-AC1750
Brand Name : ASUS
Model Name : MAP-AC1750
Applicant : ASUSTeK Computer Inc
No. 15, Li-Te Rd., Beitou District, Taipei City 112,
Taiwan.
Manufacturer : ASUSTeK Computer Inc
No. 15, Li-Te Rd., Beitou District, Taipei City 112,
Taiwan.
Standard : MIC Certification Rule, Article 2 Paragraph 1 Item 19

The product was received on Mar. 07, 2018, and testing was started from Mar. 08, 2018 and completed on Mar. 27, 2018. We, SPORTON INTERTIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in MIC Notice No.88 Appendix No.43 and shown compliance with the applicable MIC Ordinance Regulating Radio Equipment Article 49.20 and ARIB STD-T66 technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERTIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Sam Chen

SPORTON INTERTIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB Ver1.0

Page Number : 3 of 18
Issued Date : Apr. 27, 2018
Report Version : 01



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.1	RLE:6	Frequency Band	PASS	-
3.1	ORE:5	Frequency Error	PASS	-
3.2	ORE:6	Occupied Bandwidth	PASS	-
3.3	ORE:49.20	Antenna Power	PASS	-
3.3	ORE:14	Antenna Power Error	PASS	-
-	ORE:49.20	Antenna Beamwidth, EIRP Limit ^{*1}	N/A	-
-	ORE:49.20	Radiated EIRP ^{*1}	N/A	-
3.4	ORE:7, Table 3	Transmitter Spurious Emissions	PASS	-
3.5	ORE:24	Receiver Spurious Emissions	PASS	-
3.6	TR:9	Identification Code	PASS	-
-	TR:9	Carrier Sense ^{*2}	N/A	-
3.7	ORE:49.20	EUT Construction Protection	PASS	-

RLE: Radio Law Enforcement Regulations

ORE: Ordinance Regulating Radio Equipment

TR: Terminal and Other Equipment Regulations

NT: Notification of the Ministry of Internal Affairs and Communications

^{*1}: If EIRP power of EUT is lower than 12.14dBm/MHz (20MHz) and 9.1279dBm/MHz (40MHz), so "Antenna Beamwidth, EIRP Limit" and "Radiated EIRP" could be exempted tests.

^{*2}: If OFDM modulation and Occupied Bandwidth \geq 26MHz, Carrier Sense shall be performed.

Reviewed by: Sam Chen

Report Producer: Emily Chen

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number
2400-2483.5	LE	2402-2480	0-39 [40]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-LE(1Mbps)	1	1TX

Note:

- ♦ 2.4G is the 2.4GHz Band (2.4-2.4835GHz).
- ♦ Bluetooth LE uses a GFSK (1Mbps) modulation for DSSS.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Nss-Min is the minimum number of spatial streams.
- ♦ Nant is the number of outputs. e.g., 2(2, 3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

Mode	Declared Power (mW)
BT-LE	0.67

1.1.2 Antenna Information

Ant.	2.4GHz Port	5GHz Port	Brand	Part Number	Antenna Type	Connector	Gain (dBi)
1	1	2	WHA YU	C059-510402-A	Dipole Antenna	I-PEX	Note 1
2	2	3	WHA YU	C059-510402-A	Dipole Antenna	I-PEX	
3	3	1	WHA YU	C059-510402-A	Dipole Antenna	I-PEX	
4	1	-	WHA YU	C059-510402-A	Dipole Antenna	I-PEX	

Note 1

Ant.	Gain				
	WLAN 2.4G	WLAN 5G Band 1	WLAN 5G Band 2	WLAN 5G Band 3	Bluetooth
1	2.21	2.70	2.69	2.65	-
2	2.28	2.81	2.81	2.61	-
3	2.41	1.97	2.38	2.46	-
4	-	-	-	-	2.00

Note 2: The EUT has four antennas.

For WLAN function (3TX, 3RX):

Ant. 1 ~ Ant. 3 can be used as transmitting/receiving antenna.

Ant. 1 ~ Ant. 3 could transmit/receive simultaneously.

For Bluetooth function (1TX, 1RX):

Only Ant. 4 can be used as transmitting/receiving functions.

1.1.3 EUT Information

EUT Power Type	From Power Adapter
Test Software Version	telnet

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)
BT-LE(1Mbps)	0.654	1.844

1.1.5 Power Supply Voltage Fluctuation

Fluctuation	AC Input Power(V)	DC Output Power(V)	Variation (%)
Normal Vol	100	12.22	-
High Vol	110	12.22	0.000000
Low Vol	90	12.22	0.000000

Note: Voltage Variation (%) = (Output High or Low Voltage - Output Normal Voltage)/Output Normal Voltage X 100.
During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/- 1%. Exempt extremely high and low supply voltage condition tests, EUT only operated in normal voltage to test all regulations.



1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ MIC Ordinance Regulating Radio Equipment Article 49.20
- ♦ MIC Notice No.88 Appendix No.43

1.3 Testing Location Information

Testing Location		
<input type="checkbox"/>	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-318-0055
<input checked="" type="checkbox"/>	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Paul Chen / Brian Sun	22°C / 54%	Mar. 08, 2018~Mar. 27, 2018

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
Conducted Emission	1.7 dB	Confidence levels of 95%
Radio frequency	6.6×10^{-8} MHz	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default

2.2 The Worst Case Measurement Configuration

Tests Item	Frequency Error, Occupied Bandwidth, Antenna Power, Antenna Power Error, Transmitter Spurious Emissions, Receiver Spurious Emissions, Identification Code
Test Condition	Conducted measurement at transmit chains.

Note 1: The EUT supports AP/Repeater/ Mesh, only Repeater mode has been tested and recorded in this test report.

Note 2: The EUT can only be used in Z axis position.

2.3 EUT Operation during Test

During the test, "telnet" under WIN7 was executed the test program to control the EUT continuously transmit/receive RF signal.

2.4 Accessories

Accessories				
No.	Power	Brand Name	Model Name	Rating
1	Adapter	DVE	DSA-18CB-12 FCA 120150	Input: 100-240V~50/60Hz, 0.6A Output: +12V, 1.5A
Others				
Plug*1				
RJ-45 cable*1, Non Shielded, 1m				

2.5 Support Equipment

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC

3 Test Result

3.1 Frequency Error

3.1.1 Frequency Error Limit

Frequency Error Limit
$\leq \pm 50$ ppm

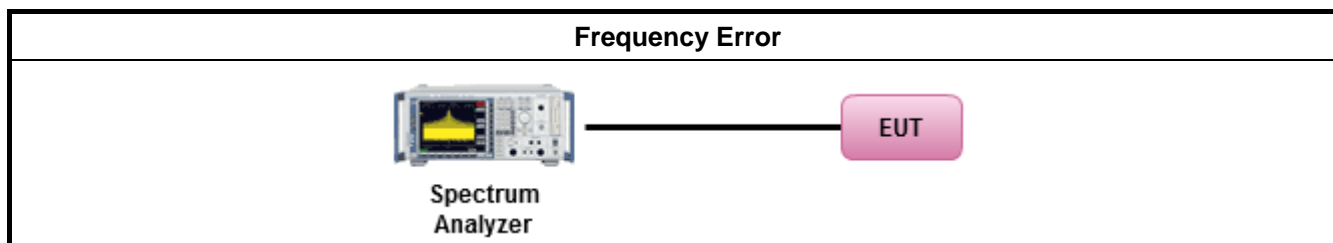
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method	
Measuring Equipment Conditions	MIC Notice No.88 Appendix No.43, clause 3.2
Conditions of Equipment under Test	MIC Notice No.88 Appendix No.43, clause 3.3
Measuring Operation Procedures	MIC Notice No.88 Appendix No.43, clause 3.4
Presentation of Results	MIC Notice No.88 Appendix No.43, clause 3.5
Other Conditions	MIC Notice No.88 Appendix No.43, clause 3.6

3.1.4 Test Setup



3.1.5 Test Result of Frequency Error

Refer as Appendix A

3.2 Occupied Bandwidth

3.2.1 Occupied Bandwidth Limit

Occupied Bandwidth Limit	
FHSS	83.5 MHz
FHSS + DSSS	83.5 MHz
FHSS + OFDM	83.5 MHz
OFDM	38 MHz
Other	26 MHz

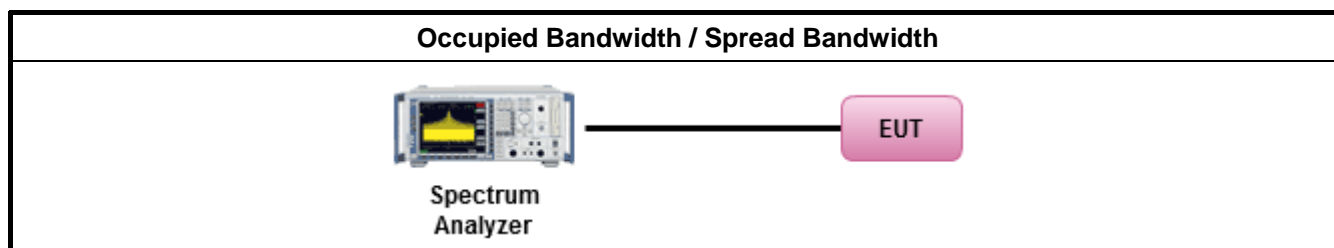
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method	
Measuring Equipment Conditions	MIC Notice No.88 Appendix No.43, clause 4.2
Conditions of Equipment under Test	MIC Notice No.88 Appendix No.43, clause 4.3
Measuring Operation Procedures	MIC Notice No.88 Appendix No.43, clause 4.4
Presentation of Results	MIC Notice No.88 Appendix No.43, clause 4.5
Other Conditions	MIC Notice No.88 Appendix No.43, clause 4.6

3.2.4 Test Setup



3.2.5 Test Result of Occupied Bandwidth

Refer as Appendix B

3.3 Antenna Power, Antenna Power Error

3.3.1 Antenna Power and Antenna Power Error Limit

Antenna Power Limit (mW/MHz)
$\leq 3\text{mW/MHz}$ (FHSS, FHSS+DSSS, FHSS+OFDM form 2427~2470.75 MHz) $\leq 10\text{mW/MHz}$ (DSSS from 2400~2483.5MHz) $\leq 10\text{mW/MHz}$ (OFDM from 2400~2483.5MHz) – [OBW $\leq 26\text{MHz}$] $\leq 5\text{mW/MHz}$ (OFDM from 2400~2483.5MHz) – [26MHz<OBW $\leq 38\text{MHz}$] $\leq 10\text{mW}$ (Other from 2400~2483.5MHz)

Antenna Power Error Limit (%)
+20% ~ -80%

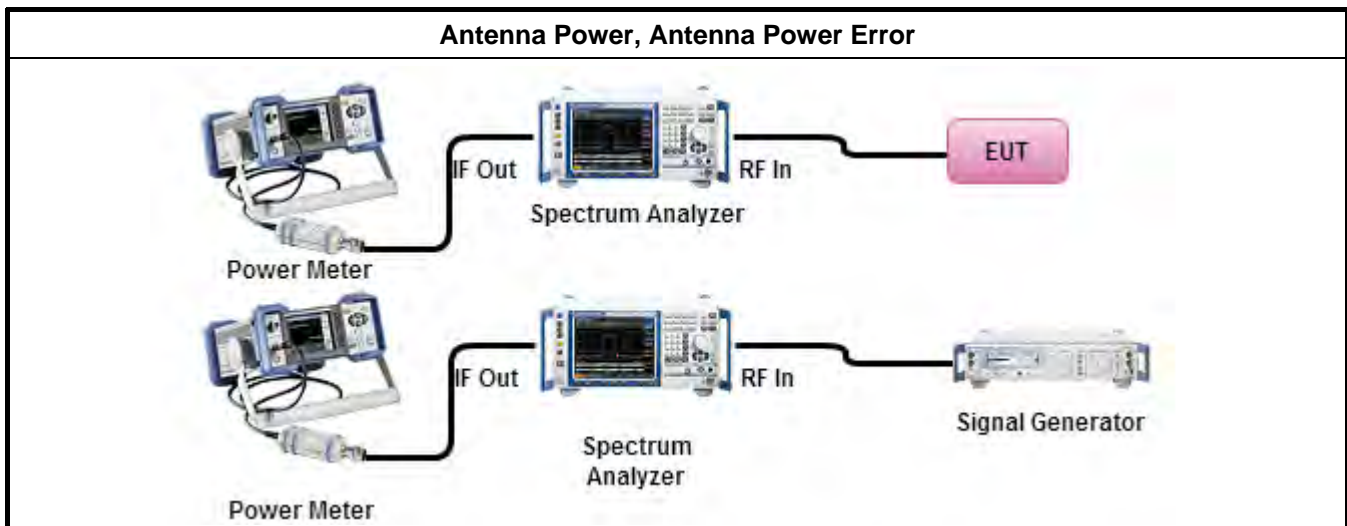
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
Measuring Equipment Conditions	MIC Notice No.88 Appendix No.43, clause 6.2
Conditions of Equipment under Test	MIC Notice No.88 Appendix No.43, clause 6.3
Measuring Operation Procedures	MIC Notice No.88 Appendix No.43, clause 6.4
Presentation of Results	MIC Notice No.88 Appendix No.43, clause 6.5
Other Conditions	MIC Notice No.88 Appendix No.43, clause 6.6

3.3.4 Test Setup



3.3.5 Test Result of Antenna Power and Antenna Power Error

Refer as Appendix C

3.4 Transmitter Spurious Emissions

3.4.1 Transmitter Spurious Emissions Limit

Transmitter Spurious Emissions		Limit	
Range (MHz)		uW/MHz	dBm/MHz
30	2387	2.5	-26
2387	2400	25	-16
2483.5	2496.5	25	-16
2496.5	12500	2.5	-26

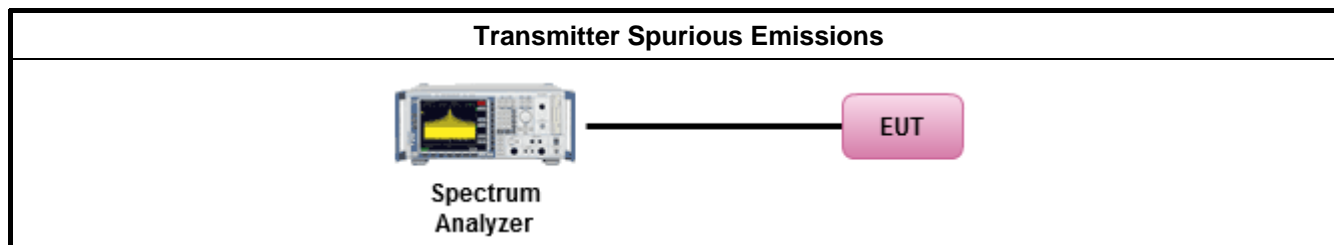
3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method	
Measuring Equipment Conditions	MIC Notice No.88 Appendix No.1, clause 1.3
Conditions of Equipment under Test	MIC Notice No.88 Appendix No.1, clause 1.4
Measuring Operation Procedures	MIC Notice No.88 Appendix No.1, clause 1.5
Presentation of Results	MIC Notice No.88 Appendix No.1, clause 1.6

3.4.4 Test Setup



3.4.5 Test Result of Transmitter Spurious Emissions

Refer as Appendix D

3.5 Receiver Spurious Emissions

3.5.1 Receiver Spurious Emissions Limit

RX Spurious Emission		Limit			
Range (MHz)		nW		dBm	
30	1000	4	4	-54	-54
1000	12500	20	20	-47	-47

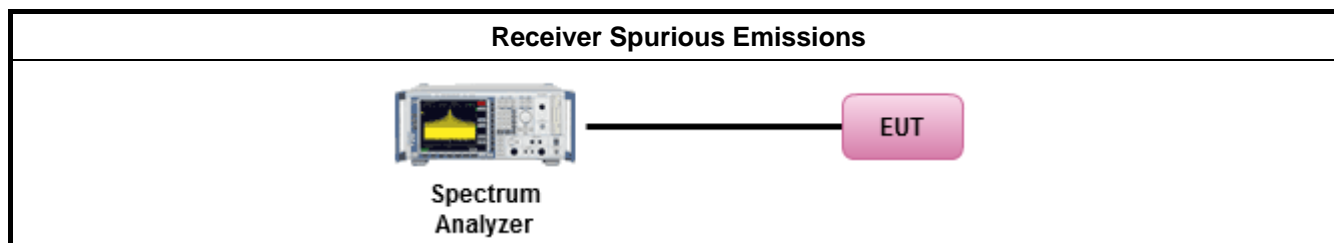
3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
Measuring Equipment Conditions	MIC Notice No.88 Appendix No.43, clause 7.2
Conditions of Equipment under Test	MIC Notice No.88 Appendix No.43, clause 7.3
Measuring Operation Procedures	MIC Notice No.88 Appendix No.43, clause 7.4
Presentation of Results	MIC Notice No.88 Appendix No.43, clause 7.5
Other Conditions	MIC Notice No.88 Appendix No.43, clause 7.6

3.5.4 Test Setup



3.5.5 Test Result of Receiver Spurious Emissions

Refer as Appendix E

3.6 Identification Code

3.6.1 Identification Code Limit

Identification Code Limit
≤ 48 bits

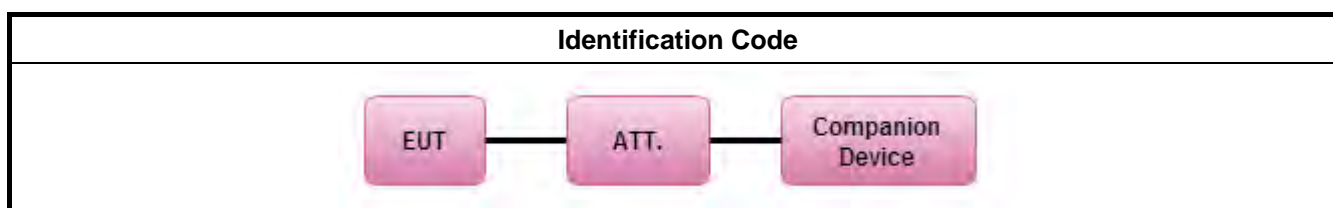
3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
Measuring Equipment Conditions	MIC Notice No.88 Appendix No.43, clause 12.2
Conditions of Equipment under Test	MIC Notice No.88 Appendix No.43, clause 12.3
Measuring Operation Procedures	MIC Notice No.88 Appendix No.43, clause 12.4
Presentation of Results	MIC Notice No.88 Appendix No.43, clause 12.5
Other Conditions	MIC Notice No.88 Appendix No.43, clause 12.6

3.6.4 Test Setup



3.6.5 Test Result of Identification Code

Refer as Appendix F



3.7 EUT Construction Protection


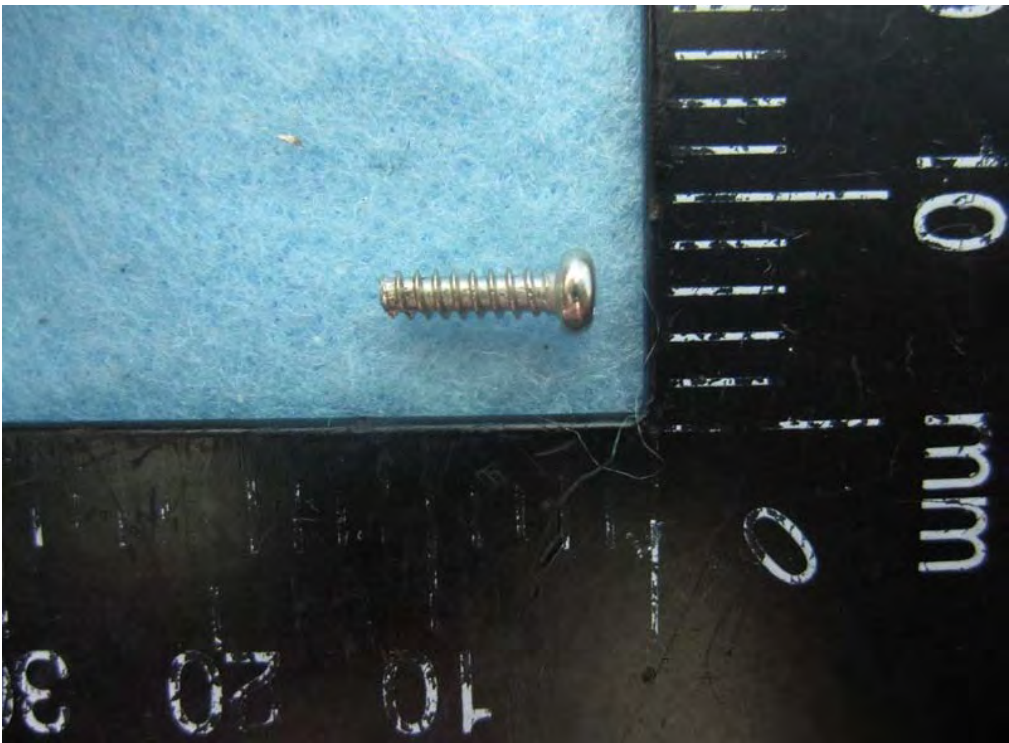
3.7.1 EUT Construction Protection Limit

EUT Construction Protection Limit	
The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.	

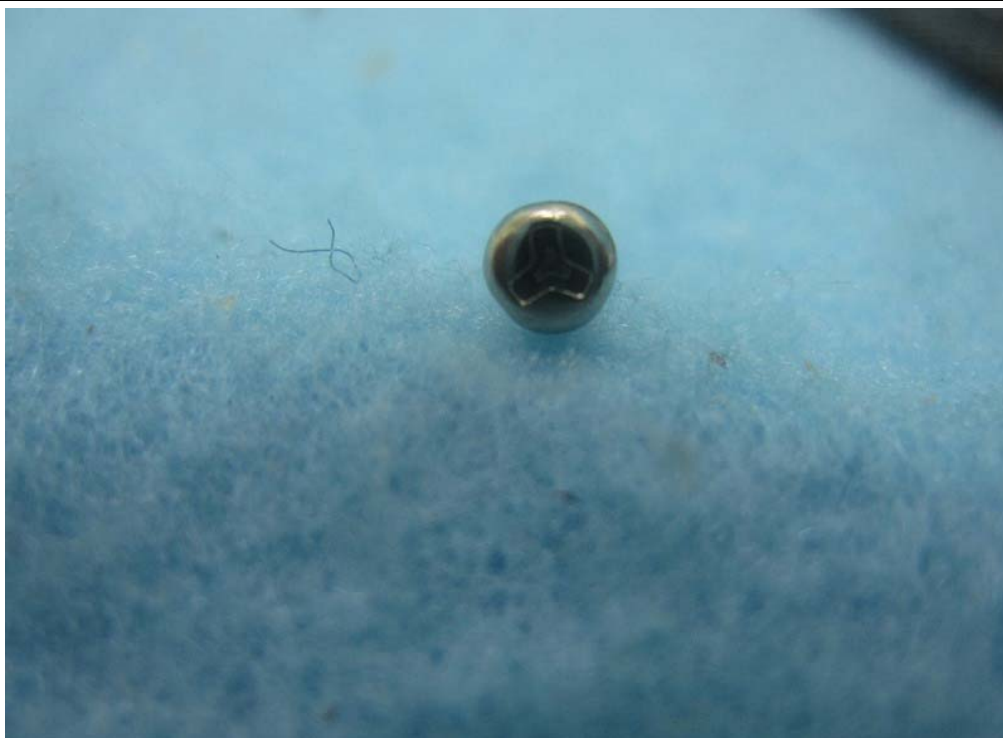
3.7.2 EUT Construction Protection

EUT Construction Protection	
Protected Method	Description
Shielding Case	RF and Modulation components are covered with shielding case and this shielding case is soldered
Special Screw	RF and Modulation components are covered within case of EUT and this case used special screw to protect anybody to open this case

3.7.3 Reference Documents

<p>Photo (Shielding Case)</p>	
<p>Photo (Special Screw)</p>	

**Photo
(Special Screw)**



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Calibration Method	Calibration Agent Name	Remark
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 21, 2017	Dec. 20, 2018	c)	A	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	c)	B	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~ 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	c)	B	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~ 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	c)	B	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~ 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	c)	B	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~ 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	c)	B	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 20, 2017	Nov. 19, 2018	c)	A	Conducted (TH01-CB)

Note:

1. Calibration Interval of instruments listed above is one year.
2. N.C.R. means Non-Calibration required.
3. Calibration Agent Name: Describe calibration agent name with its country name, and symbols in "Calibration Agent Name" shows the agent names as follows,
A: Electronics Testing Center, Taiwan.
B: Sporton International Inc., Taiwan.
C: ROHDE&SCHWARZ., Taiwan.
4. Calibration Method
 - a) : Calibration conducted by the National Institute of Information and Communications Technology or a designated calibration agency under Article 102-18 paragraph (1)
 - b) : Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)
 - c) : Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)
 - d) : Calibration conducted by using other equipment that listed above from a) to c)



Frequency Tolerance-DTS Result

Appendix A

Summary

Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port	Remark
2.4-2.4835GHz	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.48G	2.479984G	-6.389	±50	1	-

Result

Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port	Remark
BT-LE(1Mbps)	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.402G	2.401985G	-6.323	±50	1	-
2440MHz_TnomVnom	Pass	2.44G	2.439984G	-6.378	±50	1	-
2480MHz_TnomVnom	Pass	2.48G	2.479984G	-6.389	±50	1	-



Occupied Bandwidth-DTS Result

Appendix B

Summary

Mode	Max-OBW (MHz)	ITU-Code	Min-OBW (MHz)
2.4-2.4835GHz	-	-	-
BT-LE(1Mbps)	1.319	1M32F1D	1.318

Max-OBW = Maximum 99% occupied bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

Result

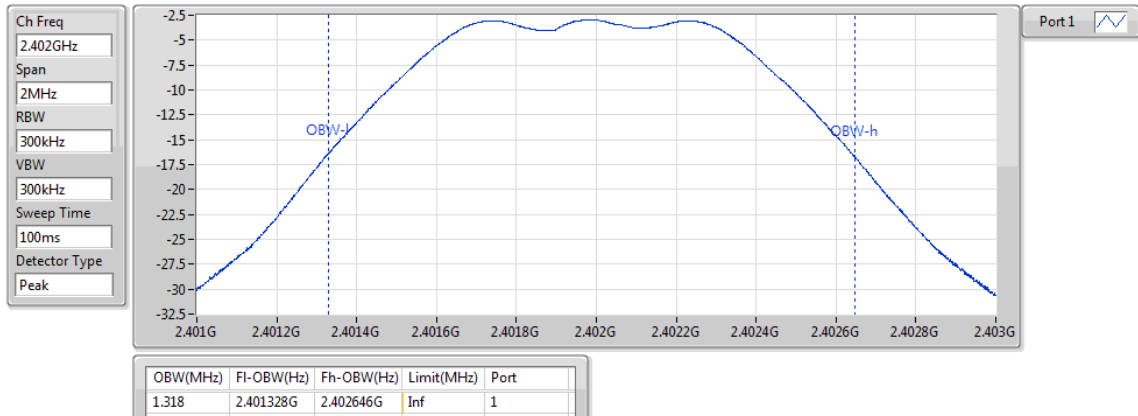
Mode	Result	Limit (MHz)	P1-OBW (MHz)
BT-LE(1Mbps)	-	-	-
2402MHz_TnomVnom	Pass	Inf	1.318
2440MHz_TnomVnom	Pass	Inf	1.318
2480MHz_TnomVnom	Pass	Inf	1.319

P1-OBW = Port 1 99% occupied bandwidth; **P2-OBW** = Port 2 99% occupied bandwidth; **P3-OBW** = Port 3 99% occupied bandwidth;
P4-OBW = Port 4 99% occupied bandwidth;

BT-LE(1Mbps)

OBW

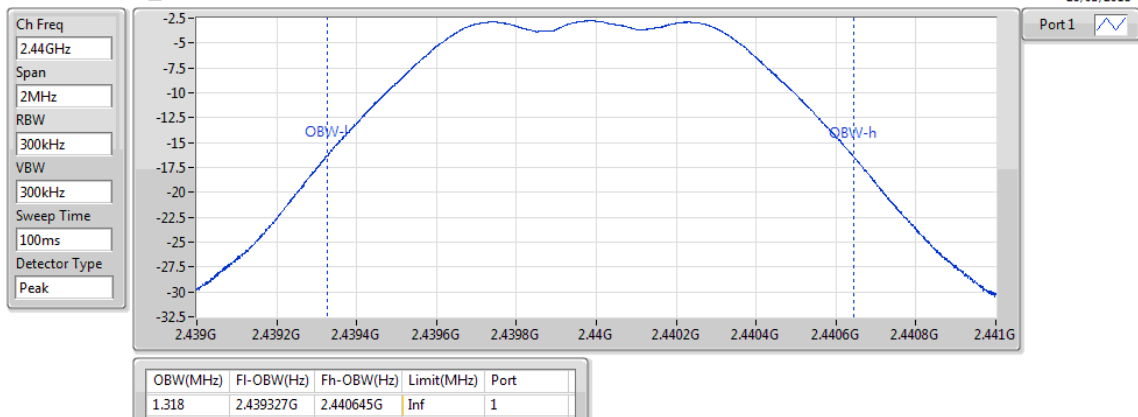
2402MHz_TnomVnom



BT-LE(1Mbps)

OBW

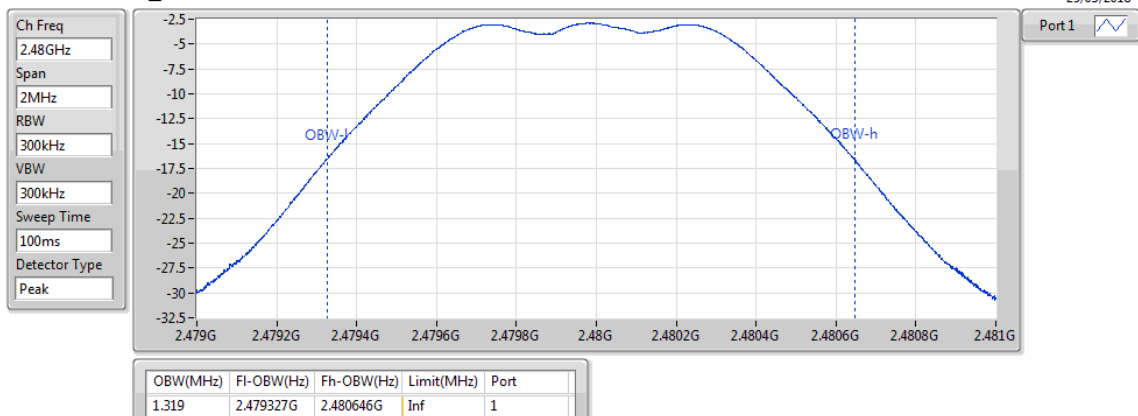
2440MHz_TnomVnom



BT-LE(1Mbps)

OBW

2480MHz_TnomVnom



**Summary**

Mode	Power (dBm)	Power (mW)	EIRP (dBm)	EIRP (mW)
2.4-2.4835GHz	-	-	-	-
BT-LE(1Mbps)	-1.71	0.67	0.29	1.07

P1 = Port 1 output power; **P2** = Port 2 output power; **P3** = Port 3 output power; **P4** = Port 4 output power;
Power = Total power sum by **P1-PN**;

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power (mW)	Power Lim. (mW)	EIRP (dBm)	EIRP (mW)	EIRP Lim. (mW)	P1 (dBm)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.00	-1.76	0.667	10	0.24	1.057	16.368	-1.76
2440MHz_TnomVnom	Pass	2.00	-1.71	0.675	10	0.29	1.069	16.368	-1.71
2480MHz_TnomVnom	Pass	2.00	-1.88	0.649	10	0.12	1.028	16.368	-1.88

P1 = Port 1 output power; **P2** = Port 2 output power; **P3** = Port 3 output power; **P4** = Port 4 output power;
Power = Total power sum by **P1-PN**;

Summary

Mode	Result	Power (dBm)	Power (mW)	Declare (dBm)	Declare (mW)	Tolerance (%)	Limit+ (%)	Limit- (%)
2.4-2.4835GHz	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	-1.71	0.67453	-1.71	0.67	0.00	20	-80

Result

Mode	Result	Power (dBm)	Power (mW)	Declare (dBm)	Declare (mW)	Tolerance (%)	Limit+ (%)	Limit- (%)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	-1.76	0.66681	-1.71	0.67	-1.14	20	-80
2440MHz_TnomVnom	Pass	-1.71	0.67453	-1.71	0.67	0.00	20	-80
2480MHz_TnomVnom	Pass	-1.88	0.64863	-1.71	0.67	-3.84	20	-80

**Summary**

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (MHz)	Psum (dBm)	Psum (uW)	Limit (dBm)	Limit (uW)	Margin (dB)	Loss (dB)	P1 (dBm)	P1 (uW)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.387G	2.4G	1M	2399.974	-30.76	0.83946	-16.02	25.00345	-14.74	2.34	-30.76	0.83946

Result

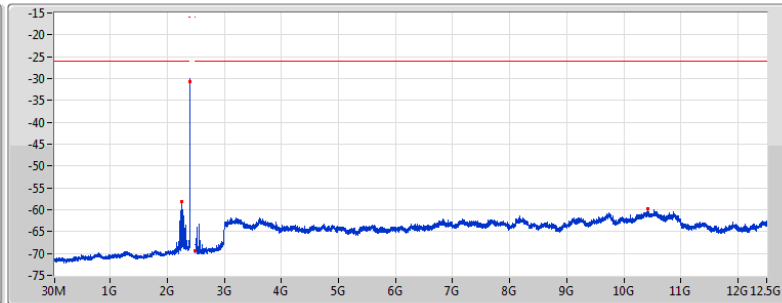
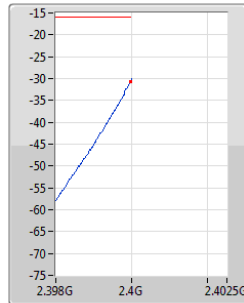
Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (MHz)	Psum (dBm)	Psum (uW)	Limit (dBm)	Limit (uW)	Margin (dB)	Loss (dB)	P1 (dBm)	P1 (uW)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	30M	2.387G	1M	2246.758	-58.20	0.00151	-26.02	2.50035	-32.18	2.34	-58.20	0.00151
2402MHz_TnomVnom	Pass	2.387G	2.4G	1M	2399.974	-30.76	0.83946	-16.02	25.00345	-14.74	2.34	-30.76	0.83946
2402MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2486.386	-69.41	0.00011	-16.02	25.00345	-53.39	2.34	-69.41	0.00011
2402MHz_TnomVnom	Pass	2.4965G	12.5G	1M	10413.02	-59.76	0.00106	-26.02	2.50035	-33.74	2.34	-59.76	0.00106
2440MHz_TnomVnom	Pass	30M	2.387G	1M	2284.47	-57.84	0.00164	-26.02	2.50035	-31.82	2.34	-57.84	0.00164
2440MHz_TnomVnom	Pass	2.387G	2.4G	1M	2387.91	-67.82	0.00017	-16.02	25.00345	-51.80	2.34	-67.82	0.00017
2440MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2491.872	-68.41	0.00014	-16.02	25.00345	-52.39	2.34	-68.41	0.00014
2440MHz_TnomVnom	Pass	2.4965G	12.5G	1M	4879.834	-46.91	0.02037	-26.02	2.50035	-20.89	2.34	-46.91	0.02037
2480MHz_TnomVnom	Pass	30M	2.387G	1M	2350.466	-61.02	0.00079	-26.02	2.50035	-35.00	2.34	-61.02	0.00079
2480MHz_TnomVnom	Pass	2.387G	2.4G	1M	2394.878	-69.47	0.00011	-16.02	25.00345	-53.45	2.34	-69.47	0.00011
2480MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2483.526	-46.50	0.02239	-16.02	25.00345	-30.48	2.34	-46.50	0.02239
2480MHz_TnomVnom	Pass	2.4965G	12.5G	1M	4959.862	-47.46	0.01795	-26.02	2.50035	-21.44	2.34	-47.46	0.01795

BT-LE(1Mbps)

CSE-TX-

2402MHz_TnomVnom

25/03/2018



Limit
Port 1

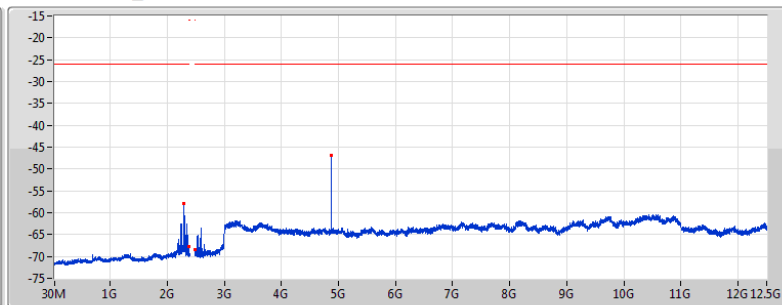
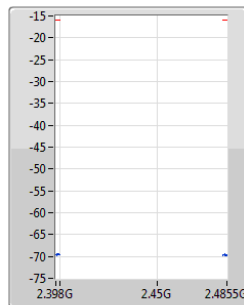
Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
2246.758	-58.20	-26.02	-32.18	-58.20
2399.974	-30.76	-16.02	-14.74	-30.76
2486.386	-69.41	-16.02	-53.39	-69.41
10413.02	-59.76	-26.02	-33.74	-59.76

BT-LE(1Mbps)

CSE-TX-

2440MHz_TnomVnom

25/03/2018



Limit
Port 1

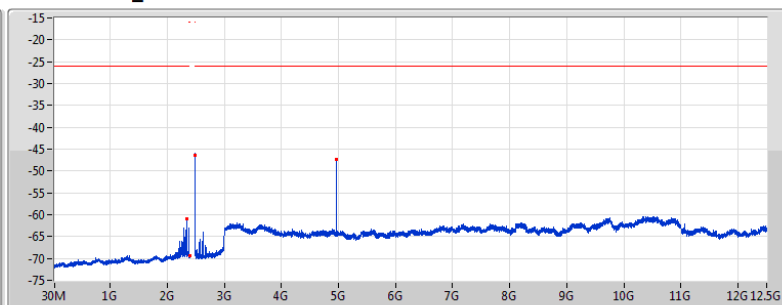
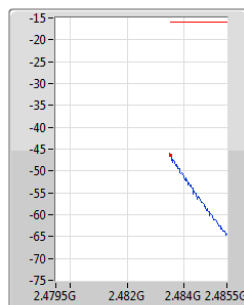
Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
2284.47	-57.84	-26.02	-31.82	-57.84
2387.91	-67.82	-16.02	-51.80	-67.82
2491.872	-68.41	-16.02	-52.39	-68.41
4879.834	-46.91	-26.02	-20.89	-46.91

BT-LE(1Mbps)

CSE-TX-

2480MHz_TnomVnom

25/03/2018



Limit
Port 1

Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
2350.466	-61.02	-26.02	-35.00	-61.02
2394.878	-69.47	-16.02	-53.45	-69.47
2483.526	-46.50	-16.02	-30.48	-46.50
4959.862	-47.46	-26.02	-21.44	-47.46



Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (MHz)	Psum (dBm)	Psum (nW)	Limit (dBm)	Limit (nW)	Margin (dB)	Loss (dB)	P1 (dBm)	P1 (nW)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	1G	12.5G	1M	4802.187	-73.80	0.04169	-46.99	19.99862	-26.81	0.50	-73.80	0.04169

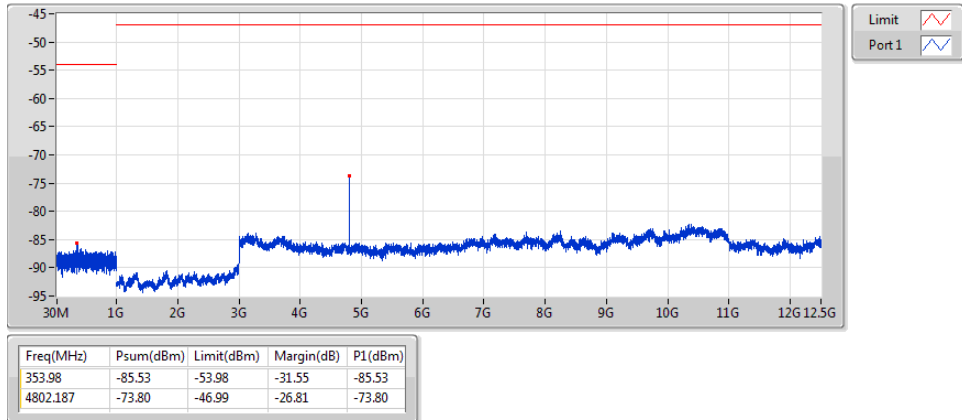
Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (MHz)	Psum (dBm)	Psum (nW)	Limit (dBm)	Limit (nW)	Margin (dB)	Loss (dB)	P1 (dBm)	P1 (nW)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	30M	1G	100k	353.98	-85.53	0.0028	-53.98	3.99945	-31.55	0.50	-85.53	0.0028
2402MHz_TnomVnom	Pass	1G	12.5G	1M	4802.187	-73.80	0.04169	-46.99	19.99862	-26.81	0.50	-73.80	0.04169
2440MHz_TnomVnom	Pass	30M	1G	100k	353.98	-85.98	0.00252	-53.98	3.99945	-32.00	0.50	-85.98	0.00252
2440MHz_TnomVnom	Pass	1G	12.5G	1M	4841	-77.11	0.01945	-46.99	19.99862	-30.12	0.50	-77.11	0.01945
2480MHz_TnomVnom	Pass	30M	1G	100k	353.98	-85.75	0.00266	-53.98	3.99945	-31.77	0.50	-85.75	0.00266
2480MHz_TnomVnom	Pass	1G	12.5G	1M	4879.812	-77.09	0.01954	-46.99	19.99862	-30.10	0.50	-77.09	0.01954

BT-LE(1Mbps)

CSE-RX-

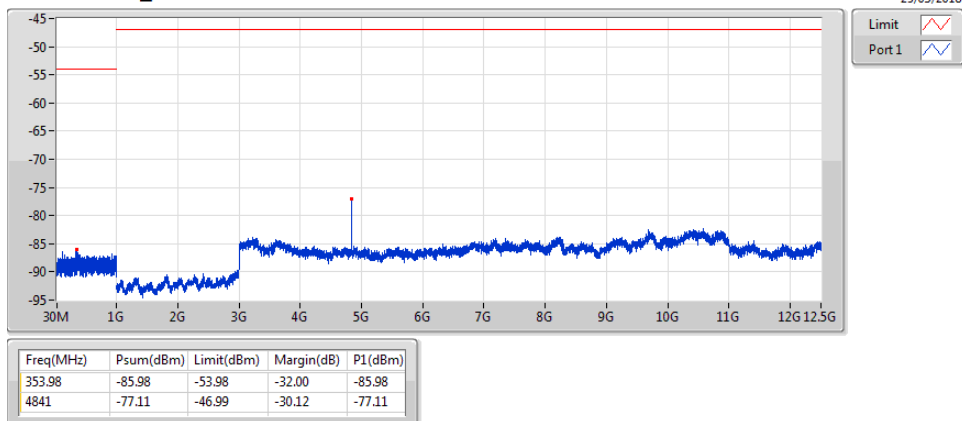
2402MHz_TnomVnom



BT-LE(1Mbps)

CSE-RX-

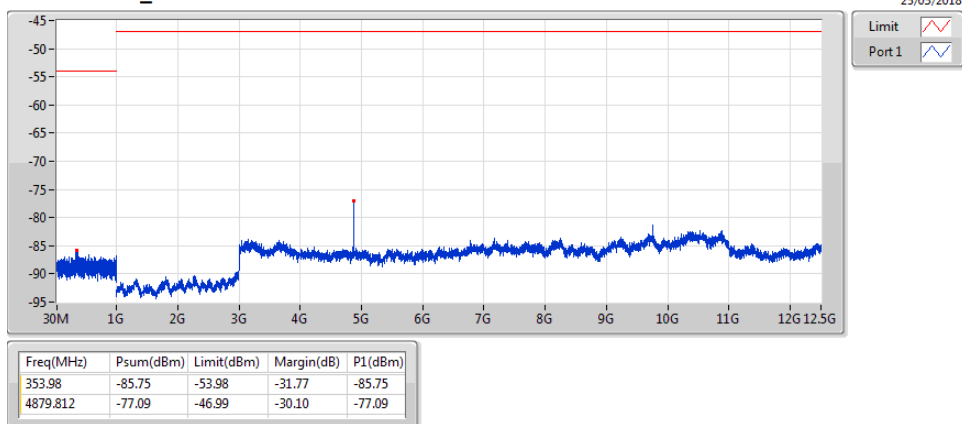
2440MHz_TnomVnom



BT-LE(1Mbps)

CSE-RX-

2480MHz_TnomVnom





Summary

Mode	Result	MAC	ID Length	ID Limit	Function
2.4-2.4835GHz	-		-	-	-
BT-LE(1Mbps)	Pass	80-1F-02-00-00-03	48 bits	48 bits	Good



Result

Mode	Result	ID Length	ID Limit	Function
BT-LE(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	48 bits	48 bits	Good
2440MHz_TnomVnom	Pass	48 bits	48 bits	Good
2480MHz_TnomVnom	Pass	48 bits	48 bits	Good