

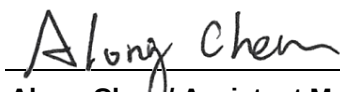
FCC Test Report

FCC ID : P27-IG502L
Equipment : Monitor Gateway
Model No. : IG-502L
Brand Name : OxTech, LLC
Applicant : Sercomm Corporation
Address : 8F, No. 3-1, YuanQu St., NanKang, Taipei 115,
Taiwan, R.O.C.
Standard : 47 CFR FCC Part 15.247
Received Date : Dec. 21, 2021
Tested Date : Jan. 08 ~ Jan. 24, 2022

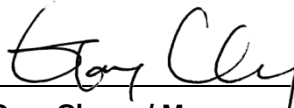
We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the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

Reviewed by:

Approved by:



Along Chen / Assistant Manager



Gary Chang / Manager

Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Local Support Equipment List	8
1.3	Test Setup Chart	8
1.4	The Equipment List	9
1.5	Test Standards	10
1.6	Reference Guidance	10
1.7	Deviation from Test Standard and Measurement Procedure.....	10
1.8	Measurement Uncertainty	10
2	TEST CONFIGURATION.....	11
2.1	Testing Facility	11
2.2	The Worst Test Modes and Channel Details	11
3	TRANSMITTER TEST RESULTS	12
3.1	Conducted Emissions.....	12
3.2	Unwanted Emissions into Restricted Frequency Bands	15
3.3	Unwanted Emissions into Non-Restricted Frequency Bands	32
3.4	Conducted Output Power	40
3.5	Number of Hopping Frequency	43
3.6	20dB and Occupied Bandwidth.....	47
3.7	Channel Separation.....	54
3.8	Number of Dwell Time.....	61
4	TEST LABORATORY INFORMATION	67

Release Record

Report No.	Version	Description	Issued Date
FR1D2104AD	Rev. 01	Initial issue	Feb. 17, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.383MHz 38.72 (Margin -9.49dB) - AV	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 48.34MHz 35.65 (Margin -4.35dB) - QP	Pass
15.247(d)	Band Edge	Meet the requirement of limit	Pass
15.247(b)(1)	Conducted Output Power	Power [dBm]: -5.44	Pass
15.247(a)(1)(iii)	Number of Hopping Channels	Meet the requirement of limit	Pass
15.247(a)(1)	Hopping Channel Separation	Meet the requirement of limit	Pass
15.247(a)(1)(iii)	Dwell Time	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. Frequency (MHz)	Channel Number	Data Rate
2400-2483.5	BR	2402-2480	0-78 [79]	1 Mbps
2400-2483.5	EDR	2402-2480	0-78 [79]	2 Mbps
2400-2483.5	EDR	2402-2480	0-78 [79]	3 Mbps
Note 1: RF output power specifies that Maximum Peak Conducted Output Power. Note 2: Bluetooth BR uses a GFSK. Note 3: Bluetooth EDR uses a combination of $\pi/4$ -DQPSK and 8DPSK.				

1.1.2 Antenna Details

Ant. No.	Type	Connector	Gain (dBi)
1	PIFA	NA	1.7

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from adapter
-------------------	--------------------

1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	AC Adapter	Brand: Leader Model: MU18D1120150-A1 Power Rating: I/P: 100-240Vac, 50/60Hz, 0.6A O/P: 12Vdc, 1.5A Power Line: 1.45m non-shielded without core
2	AC Adapter	Brand: Sercomm Model: PU18W120ULB15-DPX-00 Power Rating: I/P: 100-240Vac, 50/60Hz, 0.7A O/P: 12Vdc, 1.5A, 18.0W
3	RJ45	1.45m non-shielded without core

1.1.5 Channel List

Frequency band (MHz)				2400~2483.5			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	Putty, Version: V0.060 Bluetooth simulator: Brand: R&S, Model:CMW270	
Modulation Mode	Duty Cycle Of Test Signal (%)	Duty Factor (dB)
DH5	78.21%	1.07
2DH5	78.29%	1.06
3DH5	78.29%	1.06

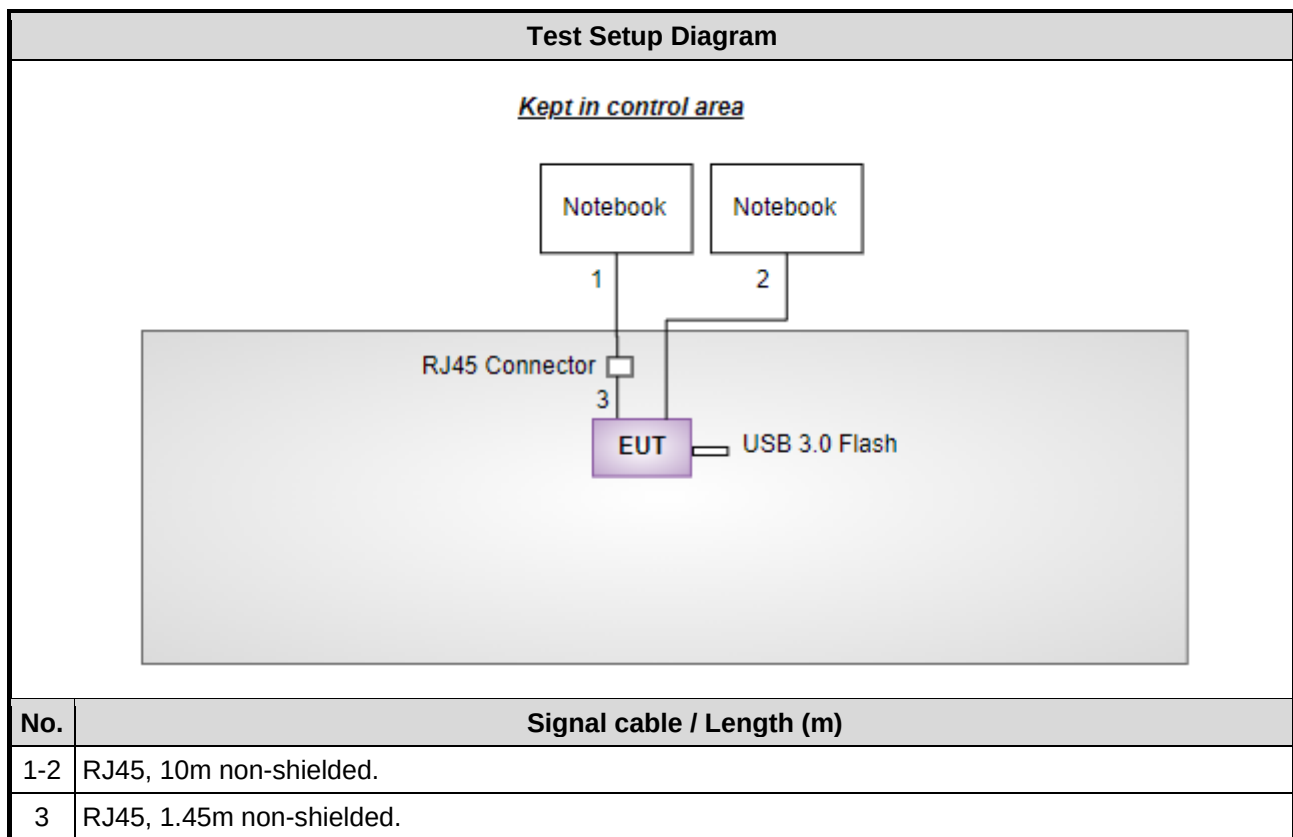
1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)		
	2402	2441	2480
GFSK/1Mbps	0x03	0x03	0x03
$\pi/4$ -DQPSK /2Mbps	0x03	0x03	0x03
8DPSK/3Mbps	0x03	0x03	0x03

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E5470	DoC	---
2	Notebook	DELL	Latitude E5470	DoC	---
3	USB 3.0 Flash	Transcend	JetFlash 700	---	---

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Jan. 24, 2022				
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 MESS-ELEKTRONIK	NSLK 8127	8127477	Feb. 25, 2021	Feb. 24, 2022
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	Jan. 08 ~ Jan. 19, 2022				
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	101063	Apr. 19, 2021	Apr. 18, 2022
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. 03, 2021	Dec. 02, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 04, 2021	Nov. 03, 2022
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-N W-11000	200801	Oct. 05, 2021	Oct. 04, 2022
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 05, 2021	Oct. 04, 2022
RF Cable	EMC	EMC104-35M-35M- 8000	210920	Oct. 05, 2021	Oct. 04, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	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	Jan. 24, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 2022
Power Meter	Anritsu	ML2495A	1241002	Nov. 07, 2021	Nov. 06, 2022
Power Sensor	Anritsu	MA2411B	1207366	Nov. 07, 2021	Nov. 06, 2022
Measurement Software	Sporton	SENSE-15247_FS	V5.10.7.11	NA	NA
Wireless connectivity tester	R&S	CMW270	100856	Nov. 01, 2021	Oct. 31, 2022
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 ≤ 1 GHz	± 3.41 dB
Radiated emission > 1 GHz	± 4.59 dB
Time	$\pm 0.1\%$

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)	Data Rate (Mbps)	Test Configuration
Conducted Emissions	8DPSK	2441	3Mbps	2
Radiated Emissions $\leq$ 1GHz	8DPSK	2441	3Mbps	1
Radiated Emissions > 1GHz	GFSK 8DPSK	2402, 2441, 2480 2402, 2441, 2480	1Mbps 3Mbps	1
Conducted Output Power	GFSK Ⅱ /4 DQPSK 8DPSK	2402, 2441, 2480 2402, 2441, 2480 2402, 2441, 2480	1Mbps 2Mbps 3Mbps	1
Number of Hopping Channels	GFSK Ⅱ /4 DQPSK 8DPSK	2402~2480 2402~2480 2402~2480	1Mbps 2Mbps 3Mbps	1
Hopping Channel Separation 20dB and Occupied bandwidth	GFSK Ⅱ /4 DQPSK 8DPSK	2402, 2441, 2480 2402, 2441, 2480 2402, 2441, 2480	1Mbps 2Mbps 3Mbps	1
Dwell Time	GFSK Ⅱ /4 DQPSK 8DPSK	2402 2402 2402	1Mbps 2Mbps 3Mbps	1

NOTE:

- Two adapters (Leader and Sercomm) had been covered during the pretest, and found that **Sercomm adapter** was the worst case of AC Power line conducted emission test item and **Leader adapter** was the worst case of Radiated Spurious emission test item.
- Test configurations are as below
 Configuration 1: Leader adapter for Radiated emission and antenna port conducted test
 Configuration 2: Sercomm adapter for AC Power Line Conducted Emissions

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

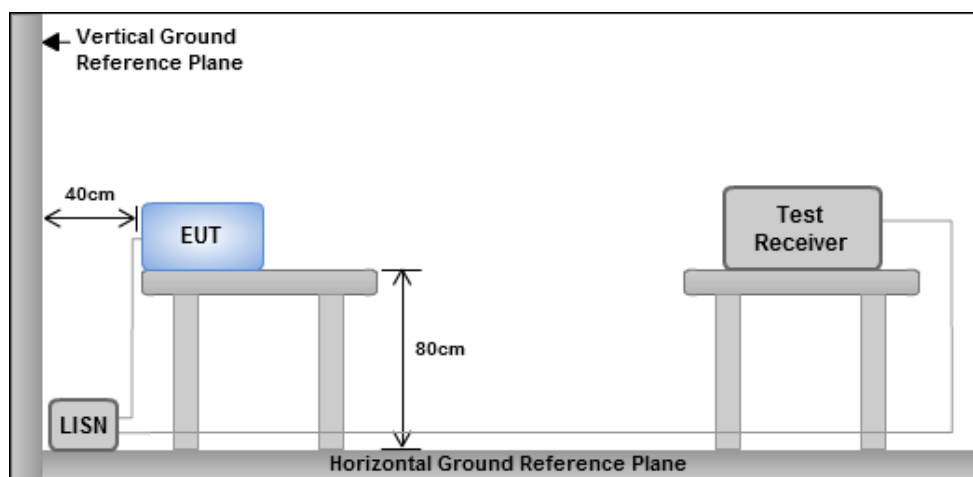
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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	8DPSK	Test Freq. (MHz)	2441																																																																																																																																										
Power Phase	Line																																																																																																																																												
Test by : Joe Liao Temperature: 16°C Humidity: 60%																																																																																																																																													
Level (dBUV) <table><thead><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Factor</th><th>Cable</th><th>Aux</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV</th><th>dBuV</th><th>Limit</th><th>Level</th><th>dB</th><th>loss</th><th>dB</th><th></th></tr></thead><tbody><tr><td>1</td><td>0.159</td><td>25.09</td><td>55.52</td><td>-30.43</td><td>15.15</td><td>9.66</td><td>0.08</td><td>0.20</td><td>Average</td></tr><tr><td>2</td><td>0.159</td><td>37.06</td><td>65.52</td><td>-28.46</td><td>27.12</td><td>9.66</td><td>0.08</td><td>0.20</td><td>QP</td></tr><tr><td>3</td><td>0.195</td><td>25.78</td><td>53.80</td><td>-28.02</td><td>15.83</td><td>9.65</td><td>0.08</td><td>0.22</td><td>Average</td></tr><tr><td>4</td><td>0.195</td><td>35.87</td><td>63.80</td><td>-27.93</td><td>25.92</td><td>9.65</td><td>0.08</td><td>0.22</td><td>QP</td></tr><tr><td>5</td><td>0.393</td><td>30.70</td><td>47.99</td><td>-17.29</td><td>20.62</td><td>9.64</td><td>0.08</td><td>0.36</td><td>Average</td></tr><tr><td>6</td><td>0.393</td><td>37.77</td><td>57.99</td><td>-20.22</td><td>27.69</td><td>9.64</td><td>0.08</td><td>0.36</td><td>QP</td></tr><tr><td>7</td><td>0.880</td><td>27.93</td><td>46.00</td><td>-18.07</td><td>17.76</td><td>9.65</td><td>0.15</td><td>0.37</td><td>Average</td></tr><tr><td>8</td><td>0.880</td><td>36.28</td><td>56.00</td><td>-19.72</td><td>26.11</td><td>9.65</td><td>0.15</td><td>0.37</td><td>QP</td></tr><tr><td>9</td><td>1.060</td><td>25.67</td><td>46.00</td><td>-20.33</td><td>15.49</td><td>9.65</td><td>0.16</td><td>0.37</td><td>Average</td></tr><tr><td>10</td><td>1.060</td><td>34.93</td><td>56.00</td><td>-21.07</td><td>24.75</td><td>9.65</td><td>0.16</td><td>0.37</td><td>QP</td></tr><tr><td>11*</td><td>8.235</td><td>35.72</td><td>50.00</td><td>-14.28</td><td>25.18</td><td>9.70</td><td>0.40</td><td>0.44</td><td>Average</td></tr><tr><td>12</td><td>8.235</td><td>43.28</td><td>60.00</td><td>-16.72</td><td>32.74</td><td>9.70</td><td>0.40</td><td>0.44</td><td>QP</td></tr></tbody></table>				Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark	MHz	dBuV	dBuV	Limit	Level	dB	loss	dB		1	0.159	25.09	55.52	-30.43	15.15	9.66	0.08	0.20	Average	2	0.159	37.06	65.52	-28.46	27.12	9.66	0.08	0.20	QP	3	0.195	25.78	53.80	-28.02	15.83	9.65	0.08	0.22	Average	4	0.195	35.87	63.80	-27.93	25.92	9.65	0.08	0.22	QP	5	0.393	30.70	47.99	-17.29	20.62	9.64	0.08	0.36	Average	6	0.393	37.77	57.99	-20.22	27.69	9.64	0.08	0.36	QP	7	0.880	27.93	46.00	-18.07	17.76	9.65	0.15	0.37	Average	8	0.880	36.28	56.00	-19.72	26.11	9.65	0.15	0.37	QP	9	1.060	25.67	46.00	-20.33	15.49	9.65	0.16	0.37	Average	10	1.060	34.93	56.00	-21.07	24.75	9.65	0.16	0.37	QP	11*	8.235	35.72	50.00	-14.28	25.18	9.70	0.40	0.44	Average	12	8.235	43.28	60.00	-16.72	32.74	9.70	0.40	0.44	QP
Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark																																																																																																																																					
MHz	dBuV	dBuV	Limit	Level	dB	loss	dB																																																																																																																																						
1	0.159	25.09	55.52	-30.43	15.15	9.66	0.08	0.20	Average																																																																																																																																				
2	0.159	37.06	65.52	-28.46	27.12	9.66	0.08	0.20	QP																																																																																																																																				
3	0.195	25.78	53.80	-28.02	15.83	9.65	0.08	0.22	Average																																																																																																																																				
4	0.195	35.87	63.80	-27.93	25.92	9.65	0.08	0.22	QP																																																																																																																																				
5	0.393	30.70	47.99	-17.29	20.62	9.64	0.08	0.36	Average																																																																																																																																				
6	0.393	37.77	57.99	-20.22	27.69	9.64	0.08	0.36	QP																																																																																																																																				
7	0.880	27.93	46.00	-18.07	17.76	9.65	0.15	0.37	Average																																																																																																																																				
8	0.880	36.28	56.00	-19.72	26.11	9.65	0.15	0.37	QP																																																																																																																																				
9	1.060	25.67	46.00	-20.33	15.49	9.65	0.16	0.37	Average																																																																																																																																				
10	1.060	34.93	56.00	-21.07	24.75	9.65	0.16	0.37	QP																																																																																																																																				
11*	8.235	35.72	50.00	-14.28	25.18	9.70	0.40	0.44	Average																																																																																																																																				
12	8.235	43.28	60.00	-16.72	32.74	9.70	0.40	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).																																																																																																																																													

Modulation	8DPSK	Test Freq. (MHz)	2441																																																																																																																																		
Power Phase	Neutral																																																																																																																																				
Test by : Joe Liao Temperature: 16°C Humidity: 60%																																																																																																																																					
Level (dBuV) Frequency (MHz) <table><thead><tr><th></th><th>Freq MHz</th><th>Level dBuV</th><th>Limit Line dBuV</th><th>Over Limit dB</th><th>Read Level dBuV</th><th>Factor dB</th><th>Cable loss dB</th><th>Aux dB</th><th>Remark</th></tr></thead><tbody><tr><td>1</td><td>0.152</td><td>26.90</td><td>55.91</td><td>-29.01</td><td>16.97</td><td>9.69</td><td>0.08</td><td>0.16</td><td>Average</td></tr><tr><td>2</td><td>0.152</td><td>42.92</td><td>65.91</td><td>-22.99</td><td>32.99</td><td>9.69</td><td>0.08</td><td>0.16</td><td>QP</td></tr><tr><td>3</td><td>0.177</td><td>24.50</td><td>54.64</td><td>-30.14</td><td>14.57</td><td>9.68</td><td>0.08</td><td>0.17</td><td>Average</td></tr><tr><td>4</td><td>0.177</td><td>38.80</td><td>64.64</td><td>-25.84</td><td>28.87</td><td>9.68</td><td>0.08</td><td>0.17</td><td>QP</td></tr><tr><td>5*</td><td>0.383</td><td>38.72</td><td>48.21</td><td>-9.49</td><td>28.78</td><td>9.67</td><td>0.08</td><td>0.19</td><td>Average</td></tr><tr><td>6</td><td>0.383</td><td>41.36</td><td>58.21</td><td>-16.85</td><td>31.42</td><td>9.67</td><td>0.08</td><td>0.19</td><td>QP</td></tr><tr><td>7</td><td>0.428</td><td>37.74</td><td>47.29</td><td>-9.55</td><td>27.78</td><td>9.67</td><td>0.09</td><td>0.20</td><td>Average</td></tr><tr><td>8</td><td>0.428</td><td>38.83</td><td>57.29</td><td>-18.46</td><td>28.87</td><td>9.67</td><td>0.09</td><td>0.20</td><td>QP</td></tr><tr><td>9</td><td>0.817</td><td>20.87</td><td>46.00</td><td>-25.13</td><td>10.79</td><td>9.68</td><td>0.14</td><td>0.26</td><td>Average</td></tr><tr><td>10</td><td>0.817</td><td>31.01</td><td>56.00</td><td>-24.99</td><td>20.93</td><td>9.68</td><td>0.14</td><td>0.26</td><td>QP</td></tr><tr><td>11</td><td>7.810</td><td>35.09</td><td>50.00</td><td>-14.91</td><td>24.61</td><td>9.74</td><td>0.38</td><td>0.36</td><td>Average</td></tr><tr><td>12</td><td>7.810</td><td>41.01</td><td>60.00</td><td>-18.99</td><td>30.53</td><td>9.74</td><td>0.38</td><td>0.36</td><td>QP</td></tr></tbody></table>					Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark	1	0.152	26.90	55.91	-29.01	16.97	9.69	0.08	0.16	Average	2	0.152	42.92	65.91	-22.99	32.99	9.69	0.08	0.16	QP	3	0.177	24.50	54.64	-30.14	14.57	9.68	0.08	0.17	Average	4	0.177	38.80	64.64	-25.84	28.87	9.68	0.08	0.17	QP	5*	0.383	38.72	48.21	-9.49	28.78	9.67	0.08	0.19	Average	6	0.383	41.36	58.21	-16.85	31.42	9.67	0.08	0.19	QP	7	0.428	37.74	47.29	-9.55	27.78	9.67	0.09	0.20	Average	8	0.428	38.83	57.29	-18.46	28.87	9.67	0.09	0.20	QP	9	0.817	20.87	46.00	-25.13	10.79	9.68	0.14	0.26	Average	10	0.817	31.01	56.00	-24.99	20.93	9.68	0.14	0.26	QP	11	7.810	35.09	50.00	-14.91	24.61	9.74	0.38	0.36	Average	12	7.810	41.01	60.00	-18.99	30.53	9.74	0.38	0.36	QP
	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark																																																																																																																												
1	0.152	26.90	55.91	-29.01	16.97	9.69	0.08	0.16	Average																																																																																																																												
2	0.152	42.92	65.91	-22.99	32.99	9.69	0.08	0.16	QP																																																																																																																												
3	0.177	24.50	54.64	-30.14	14.57	9.68	0.08	0.17	Average																																																																																																																												
4	0.177	38.80	64.64	-25.84	28.87	9.68	0.08	0.17	QP																																																																																																																												
5*	0.383	38.72	48.21	-9.49	28.78	9.67	0.08	0.19	Average																																																																																																																												
6	0.383	41.36	58.21	-16.85	31.42	9.67	0.08	0.19	QP																																																																																																																												
7	0.428	37.74	47.29	-9.55	27.78	9.67	0.09	0.20	Average																																																																																																																												
8	0.428	38.83	57.29	-18.46	28.87	9.67	0.09	0.20	QP																																																																																																																												
9	0.817	20.87	46.00	-25.13	10.79	9.68	0.14	0.26	Average																																																																																																																												
10	0.817	31.01	56.00	-24.99	20.93	9.68	0.14	0.26	QP																																																																																																																												
11	7.810	35.09	50.00	-14.91	24.61	9.74	0.38	0.36	Average																																																																																																																												
12	7.810	41.01	60.00	-18.99	30.53	9.74	0.38	0.36	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 Unwanted Emissions into Restricted Frequency Bands

3.2.1 Limit of Unwanted Emissions into 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.

3.2.2 Test Procedures

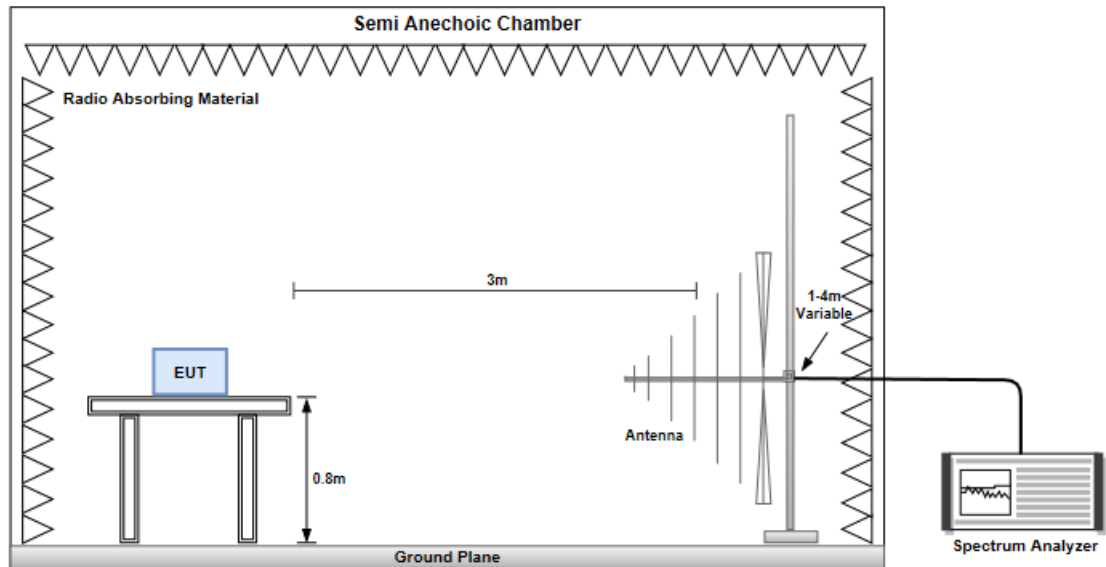
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

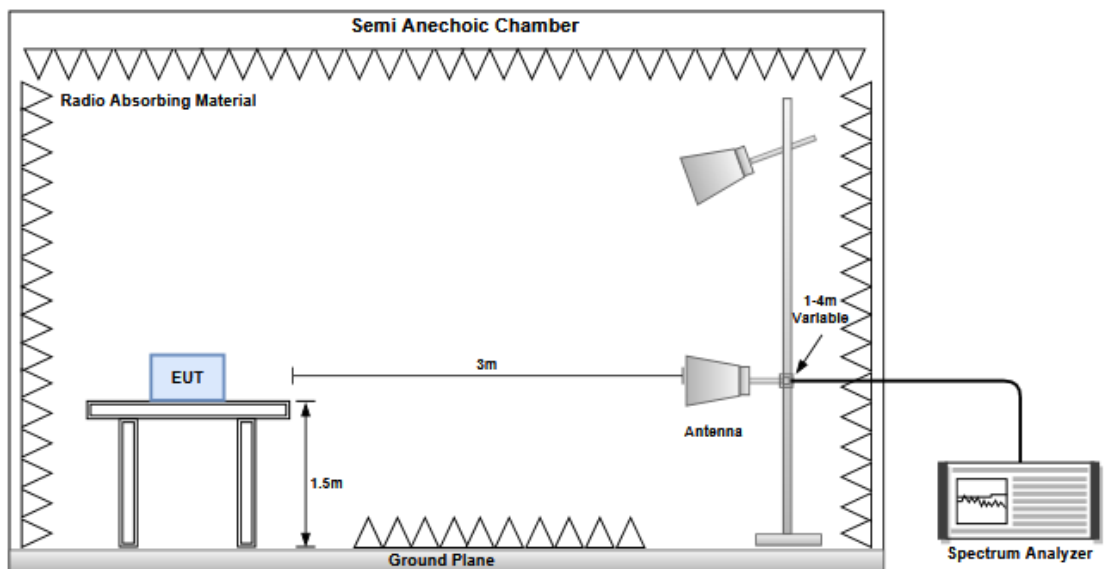
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. Radiated emission above 1GHz / Peak value
RBW=1MHz, VBW=3MHz and Peak detector
Radiated emission above 1GHz / Average value for harmonics
The average value is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula for DH5 packet type which has worst duty factor:
3.
$$20\log (\text{Duty cycle}) = 20\log \frac{1\text{s} / 1600 * 5}{100 \text{ ms}} = -30.1\text{dB}$$
4. Radiated emission above 1GHz / Average value for other emissions
RBW=1MHz, VBW=1/T and Peak detector

3.2.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.2.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	8DPSK	Test Freq. (MHz)	2441
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):23 Humidity(%):67			
Level (dBuV/m)			

Modulation	8DPSK	Test Freq. (MHz)	2441
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):23 Humidity(%):67			
Level (dBuV/m) </			

3.2.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for GFSK

Modulation	GFSK		Test Freq. (MHz)		2402	
Polarization	Horizontal					
Test By :Roger Lu Temperature(°C):22 Humidity(%):61						
Level (dBuV/m)						

Modulation	GFSK	Test Freq. (MHz)	2402
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):22 Humidity(%):61			
Level (dBuV/m)			

Modulation	GFSK	Test Freq. (MHz)	2441
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):22 Humidity(%):61			
Level (dBuV/m) <			

Modulation	GFSK	Test Freq. (MHz)	2441
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):22 Humidity(%):61			
Level (dBuV/m) </			

Modulation	GFSK	Test Freq. (MHz)	2480
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):22 Humidity(%):61			
Level (dBuV/m)			

Modulation	GFSK	Test Freq. (MHz)	2480
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):22 Humidity(%):61			
Level (dBuV/m)			

3.2.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 8DPSK

Modulation	8DPSK		Test Freq. (MHz)		2402	
Polarization	Horizontal					
Test By :Roger Lu Temperature(°C):22 Humidity(%):61						
Level (dBuV/m) <						

Modulation	8DPSK	Test Freq. (MHz)	2402
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):22 Humidity(%):61			
Level (dBUV/m)			

Modulation	8DPSK	Test Freq. (MHz)	2441
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):22 Humidity(%):61			
Level (dBUV/m)			

Modulation	8DPSK	Test Freq. (MHz)	2441
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):22 Humidity(%):61			
Level (dBuV/m)			

Modulation	8DPSK	Test Freq. (MHz)	2480
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):22 Humidity(%):61			
Level (dBuV/m)			

Modulation	8DPSK	Test Freq. (MHz)	2480
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):22 Humidity(%):61			
Level (dBuV/m)			

3.3 Unwanted Emissions into Non-Restricted Frequency Bands

3.3.1 Limit of Unwanted Emissions into Non-Restricted Frequency Bands

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.

3.3.2 Test Procedures

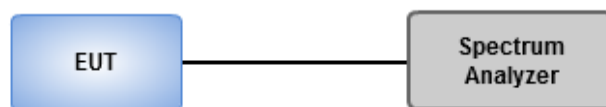
Reference level measurement

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

3.3.3 Test Setup



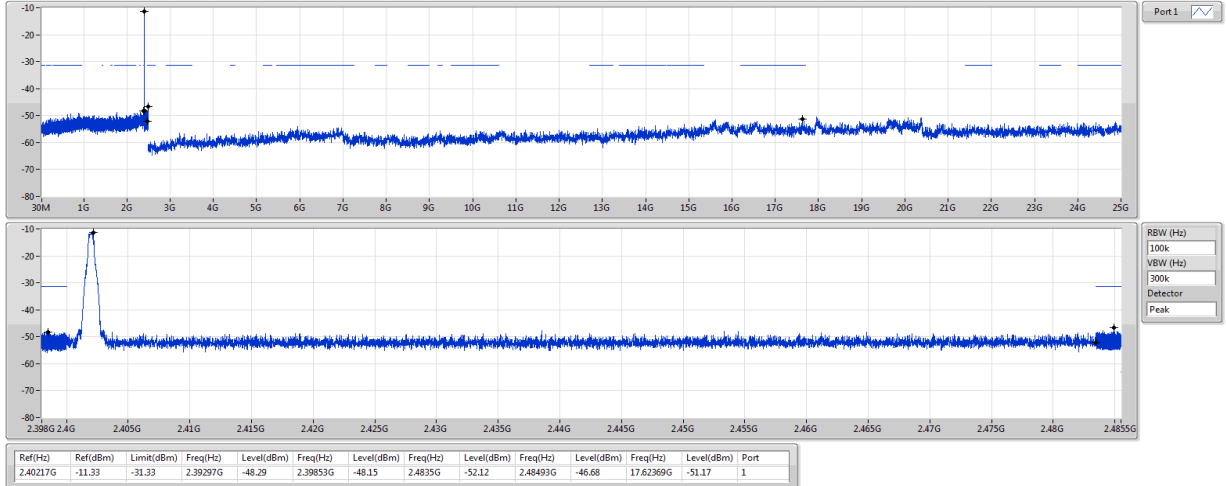
3.3.4 Unwanted Emissions into Non-Restricted Frequency Bands

Ambient Condition	22°C / 67%	Tested By	Brad Wu
-------------------	------------	-----------	---------

BT-BR(1Mbps)

CSENdB-FS

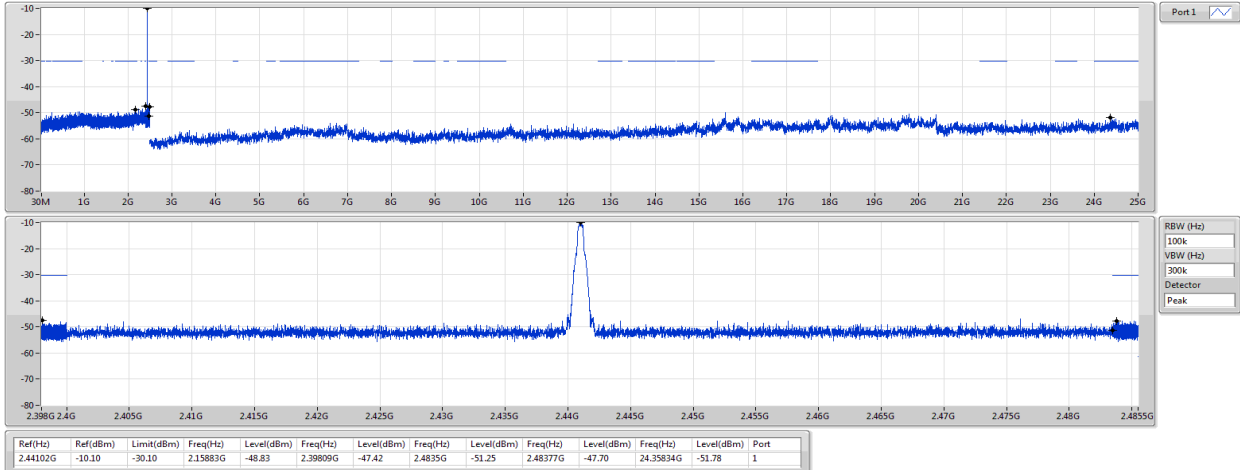
2402MHz



BT-BR(1Mbps)

CSENdB-FS

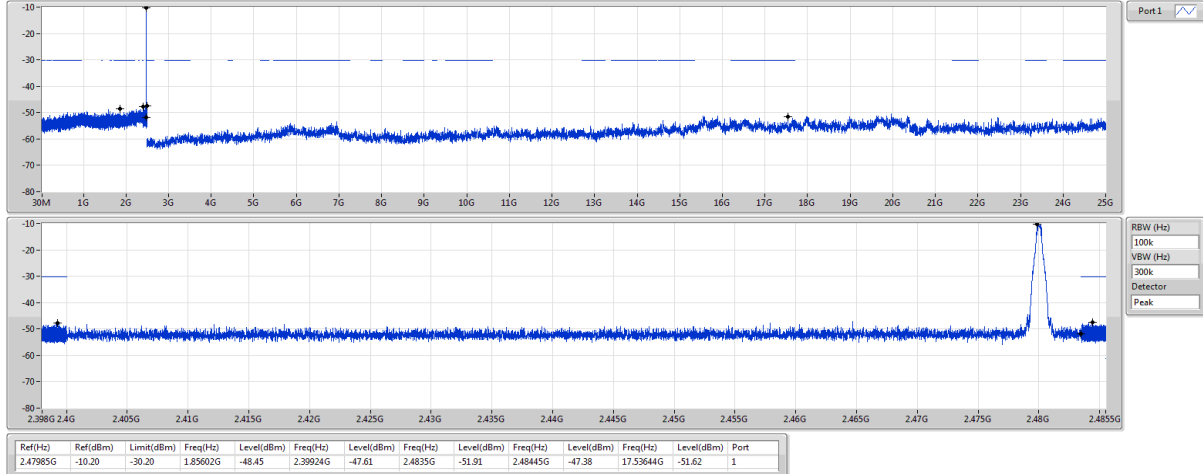
2441MHz



BT-BR(1Mbps)

CSEndB-FS

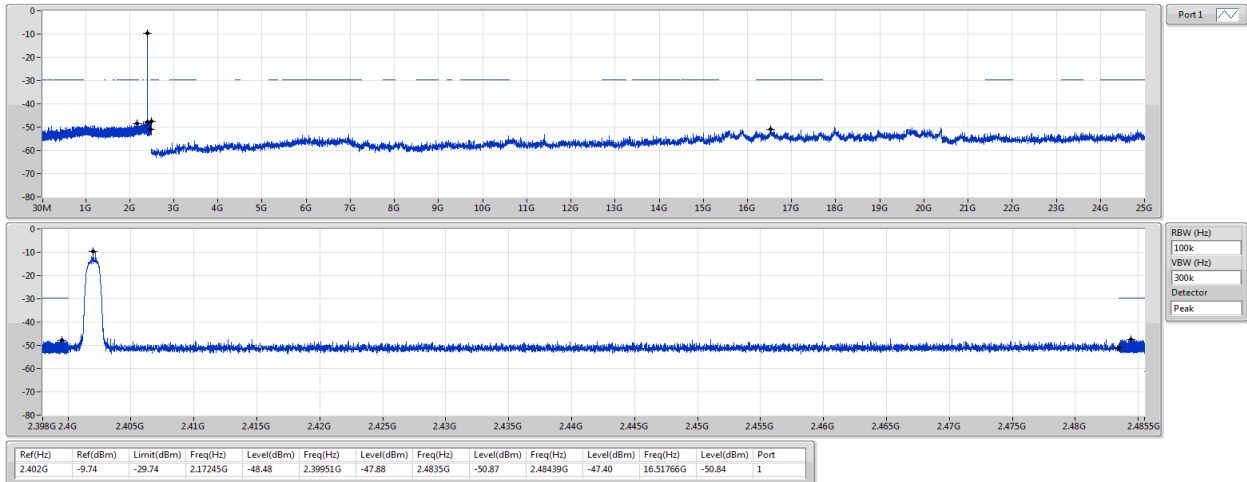
2480MHz



BT-EDR(2Mbps)

CSEndB-FS

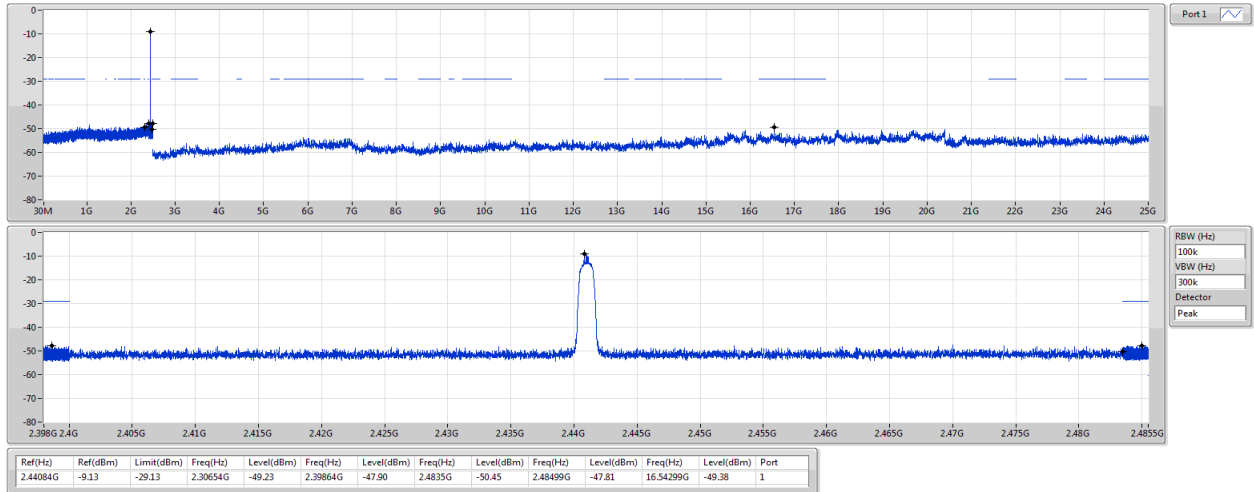
2402MHz



BT-EDR(2Mbps)

CSEndB-FS

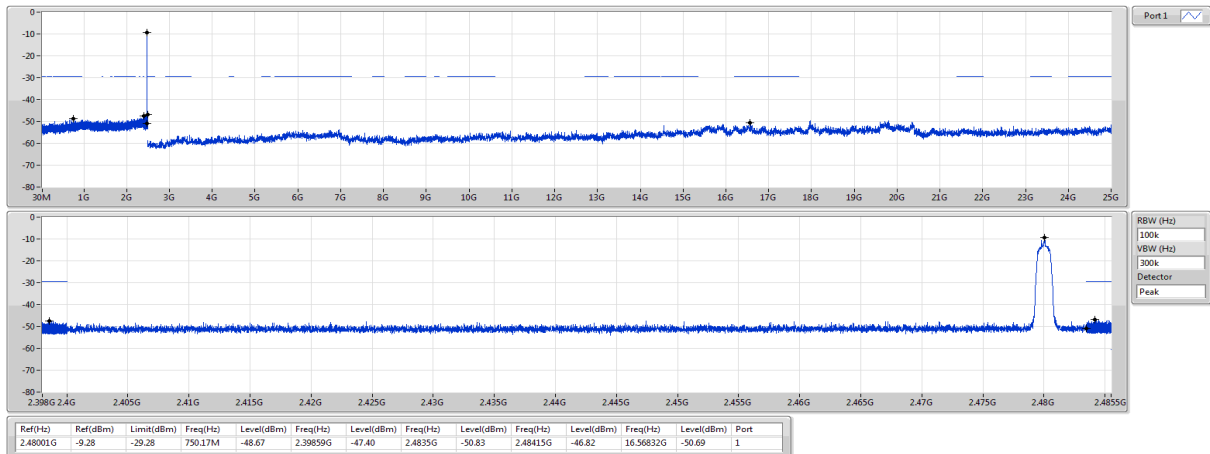
2441MHz



BT-EDR(2Mbps)

CSEndB-FS

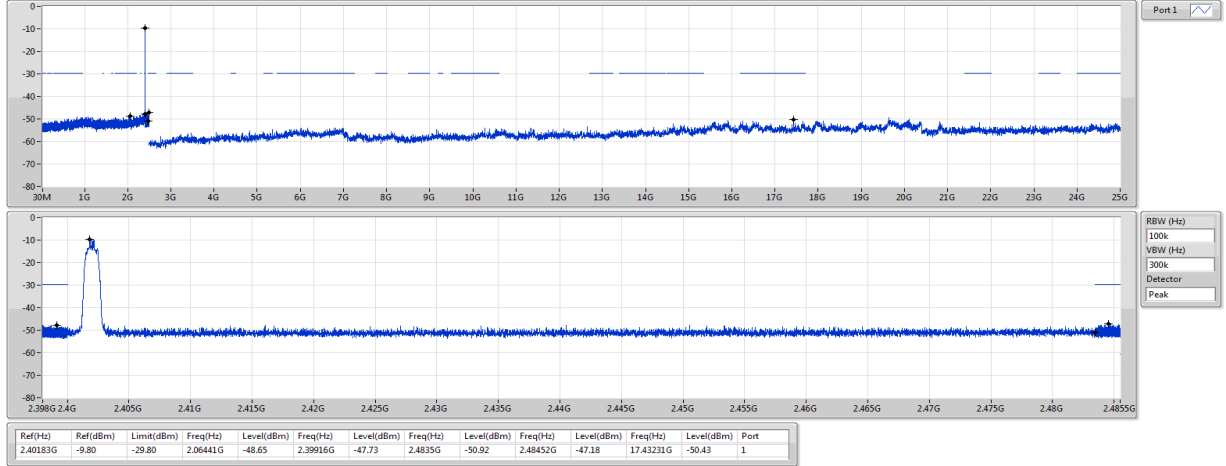
2480MHz



BT-EDR(3Mbps)

CSENdB-FS

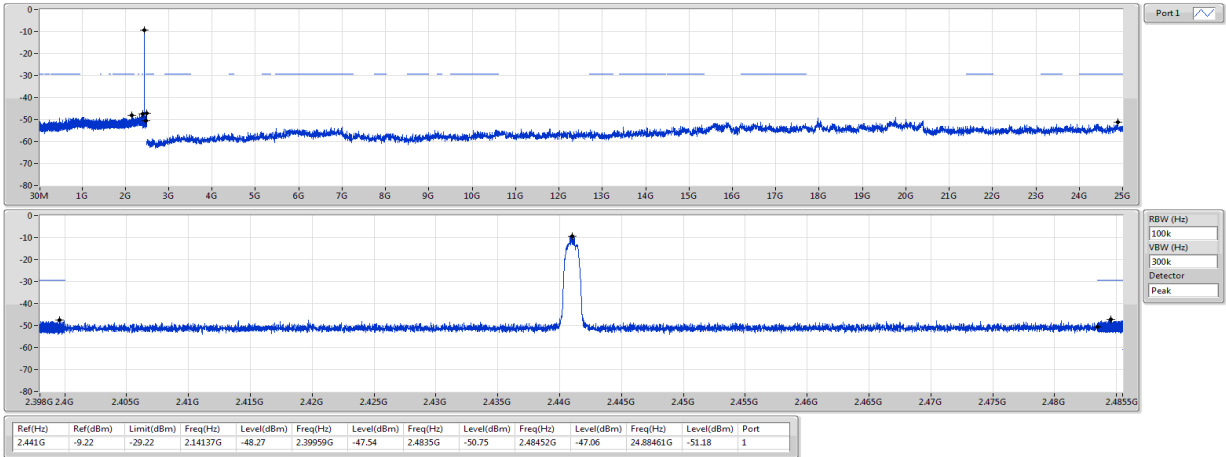
2402MHz



BT-EDR(3Mbps)

CSENdB-FS

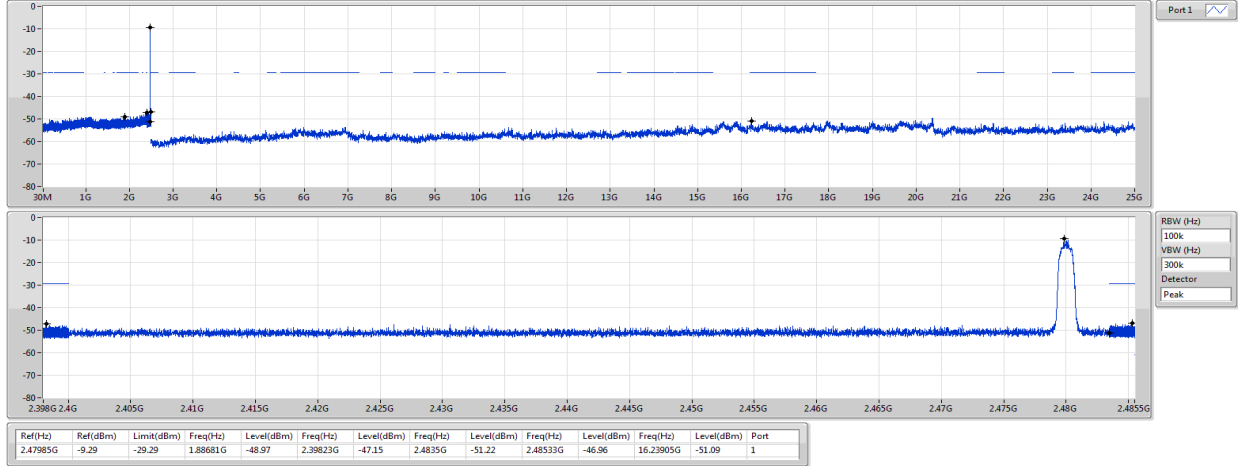
2441MHz



BT-EDR(3Mbps)

CSENdB-FS

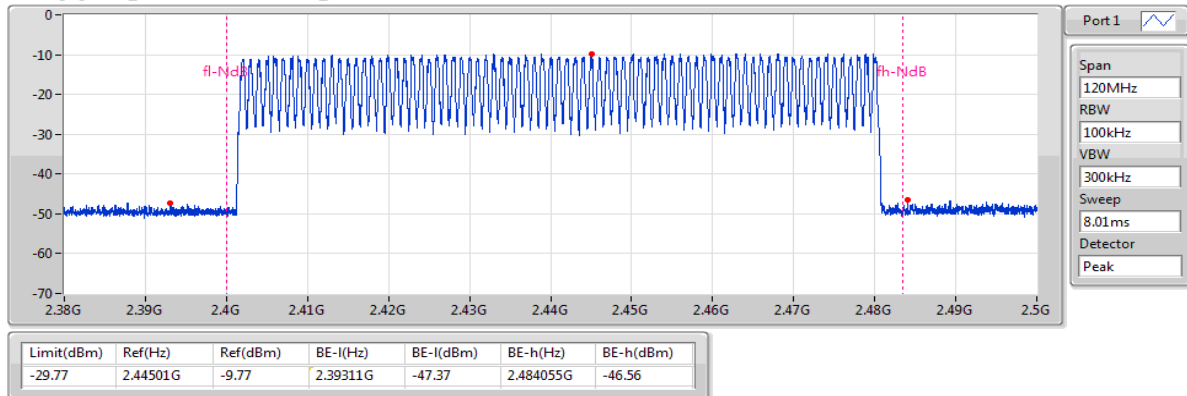
2480MHz



BT-BR(1Mbps)

2402MHz

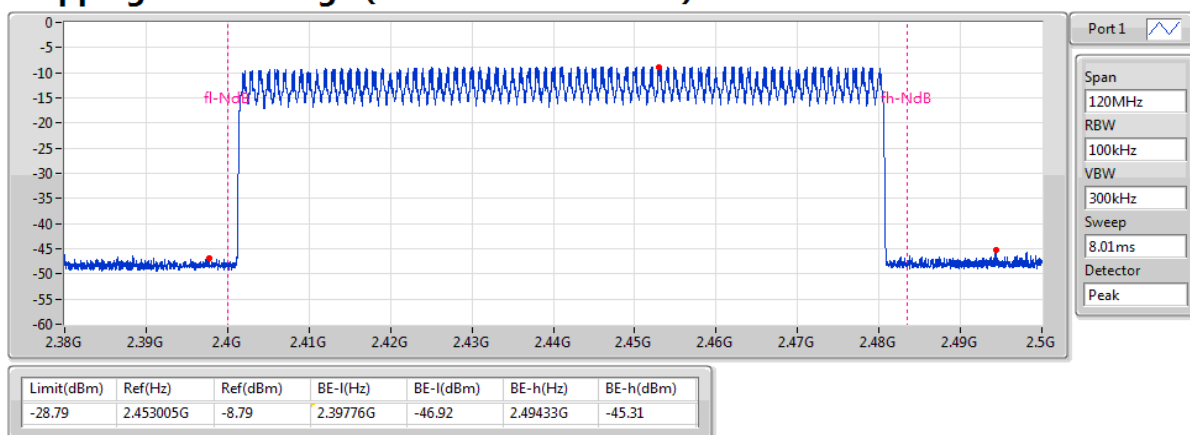
Hopping Ch Bandedge (Non-restricted Band)



BT-EDR(2Mbps)

2402MHz

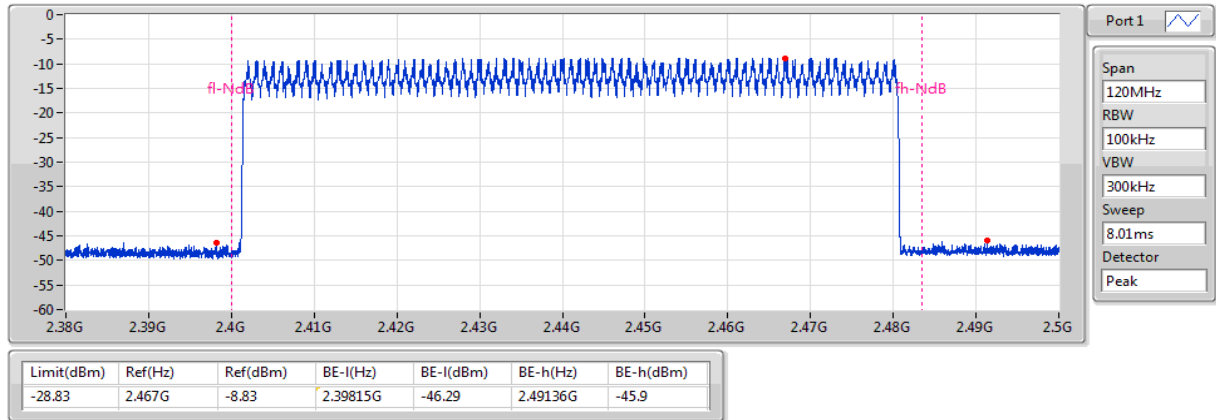
Hopping Ch Bandedge (Non-restricted Band)



BT-EDR(3Mbps)

2402MHz

Hopping Ch Bandedge (Non-restricted Band)



3.4 Conducted Output Power

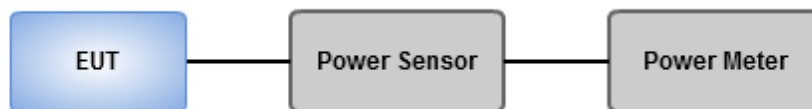
3.4.1 Limit of Conducted Output Power

- ☐ 1 Watt
For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band.
- ☒ 0.125 Watt
For all other frequency hopping systems in the 2400–2483.5 MHz band.
- ☐ 0.125 Watt
For Frequency hopping systems operating in the 2400–2483.5 MHz band have hopping channel carrier frequencies that are separated by two-thirds of the 20 dB bandwidth of the hopping channel.

3.4.2 Test Procedures

1. A wideband power meter is used for power measurement. Bandwidth of power sensor and meter is 50MHz
2. 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

3.4.3 Test Setup



3.4.4 Test Result of Conducted Output Power

Ambient Condition	22°C / 67%	Tested By	Brad Wu
--------------------------	------------	------------------	---------

Summary of Peak Conducted Output Power

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	-8.86	0.00013
BT-EDR(2Mbps)	-6.01	0.00025
BT-EDR(3Mbps)	-5.44	0.00029

Result

Mode	Result	Antenna Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	1.70	-8.92	21.00
2441MHz	Pass	1.70	-8.86	21.00
2480MHz	Pass	1.70	-9.10	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	1.70	-6.54	21.00
2441MHz	Pass	1.70	-6.01	21.00
2480MHz	Pass	1.70	-6.28	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	1.70	-6.02	21.00
2441MHz	Pass	1.70	-5.44	21.00
2480MHz	Pass	1.70	-5.74	21.00

Summary of Conducted (Average) Output Power

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	-9.12	0.00012
BT-EDR(2Mbps)	-8.64	0.00014
BT-EDR(3Mbps)	-8.66	0.00014

Result

Mode	Result	Antenna Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	1.70	-9.23	-
2441MHz	Pass	1.70	-9.12	-
2480MHz	Pass	1.70	-9.36	-
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	1.70	-9.27	-
2441MHz	Pass	1.70	-8.64	-
2480MHz	Pass	1.70	-8.94	-
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	1.70	-9.20	-
2441MHz	Pass	1.70	-8.66	-
2480MHz	Pass	1.70	-8.96	-

Note: Average power is for reference only.

3.5 Number of Hopping Frequency

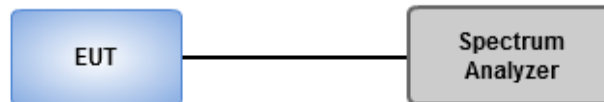
3.5.1 Limit of Number of Hopping Frequency

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.

3.5.2 Test Procedures

1. Set RBW = 100kHz, VBW = 300kHz, Sweep time = Auto, Detector = Peak Trace max hold.
2. Allow trace to stabilize.

3.5.3 Test Setup



3.5.4 Test Result of Number of Hopping Frequency

Ambient Condition	22°C / 67%	Tested By	Brad Wu
-------------------	------------	-----------	---------

Summary

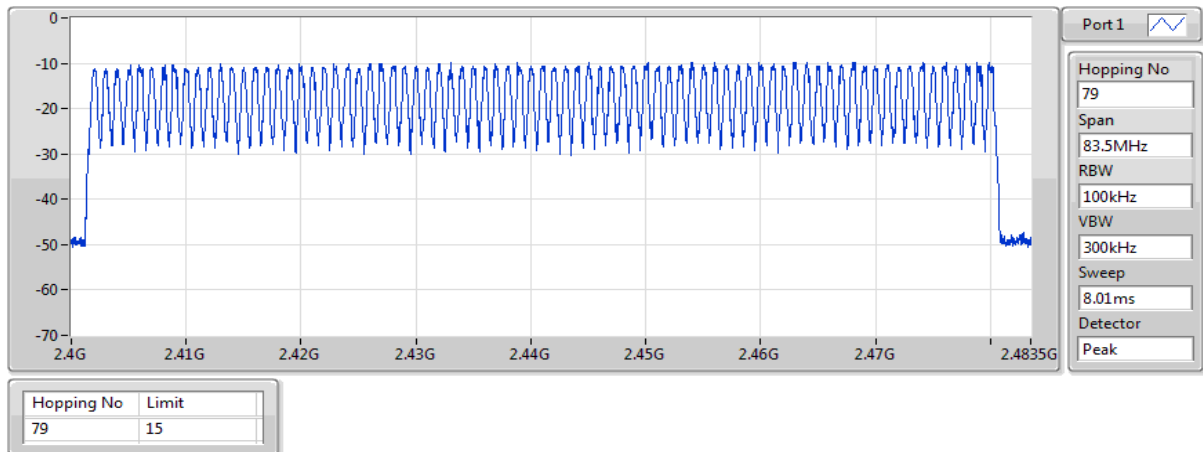
Mode	Max-Hop No
2.4-2.4835GHz	-
BT-BR(1Mbps)	79
BT-EDR(2Mbps)	79
BT-EDR(3Mbps)	79

Result

Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2402MHz	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2402MHz	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2402MHz	Pass	79	15

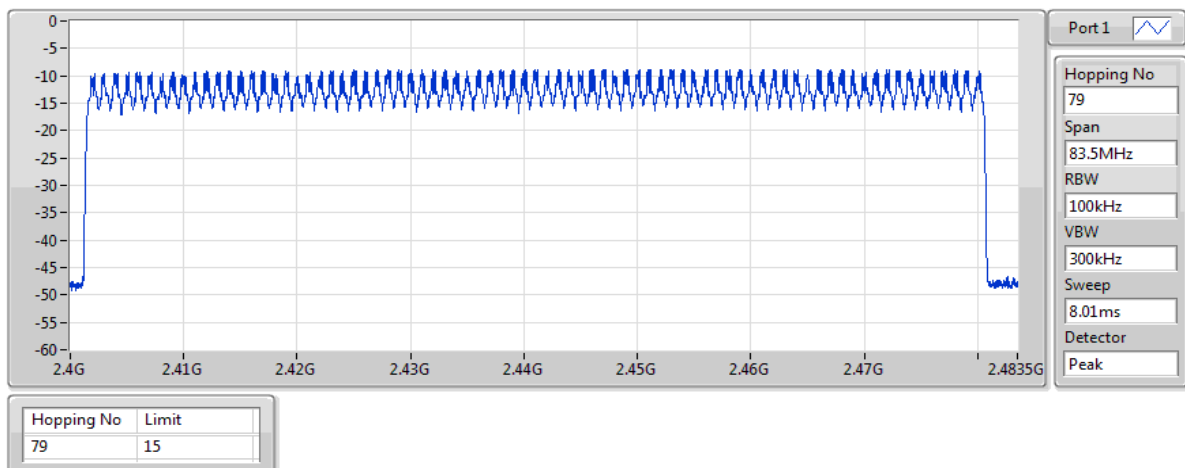
BT-BR(1Mbps) 2402MHz

Hopping-FS



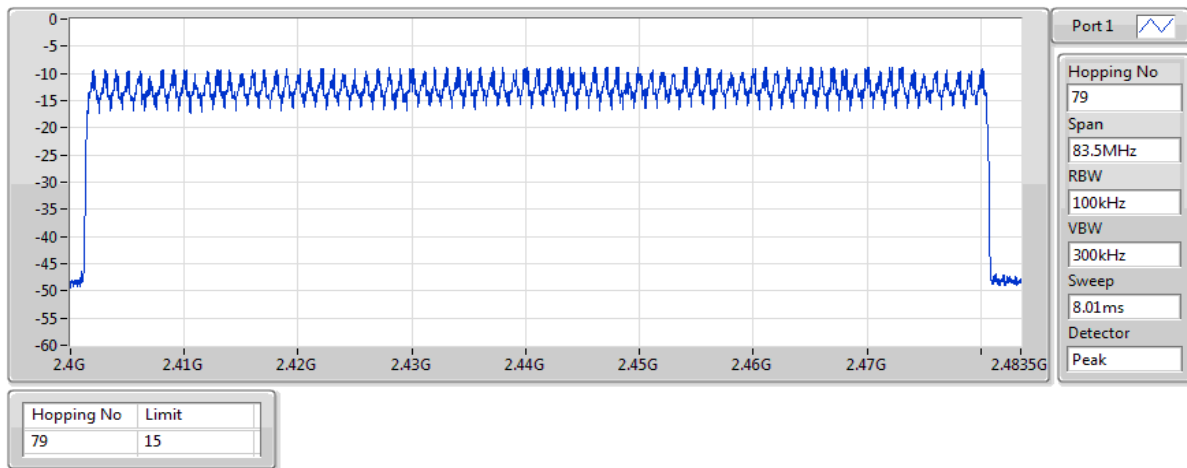
BT-EDR(2Mbps) 2402MHz

Hopping-FS



BT-EDR(3Mbps)
2402MHz

Hopping-FS



3.6 20dB and Occupied Bandwidth

3.6.1 Test Procedures

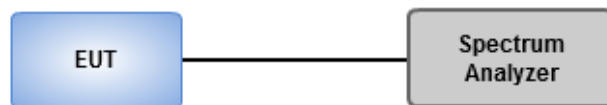
20dB Bandwidth

1. Set RBW=20kHz, VBW=100kHz, Sweep time = Auto, Detector=Peak , Trace max hold
2. Allow trace to stabilize
3. 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 20 dB relative to the maximum level measured in the fundamental emission.

Occupied Bandwidth

1. Set RBW=20kHz, VBW=100kHz, Sweep time = Auto, Detector=Sample , Trace max hold
2. Allow trace to stabilize
3. Use Occupied bandwidth function of spectrum analyzer to measuring 99% occupied bandwidth

3.6.2 Test Setup



3.6.3 Test result of 20dB and Occupied Bandwidth

Ambient Condition	22°C / 67%	Tested By	Brad Wu
--------------------------	------------	------------------	---------

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-BR(1Mbps)	942.029k	890.014k	890KF1D	931.159k	864.689k
BT-EDR(2Mbps)	1.308M	1.183M	1M18G1D	1.257M	1.172M
BT-EDR(3Mbps)	1.293M	1.179M	1M18G1D	1.261M	1.176M

Max-N dB = Maximum 20dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 20dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

Result

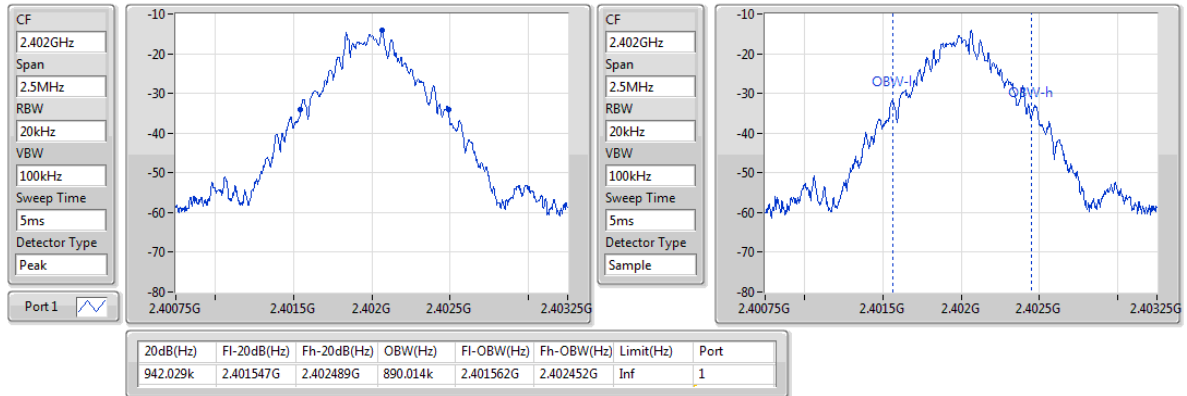
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	942.029k	890.014k
2441MHz	Pass	Inf	931.159k	864.689k
2480MHz	Pass	Inf	938.406k	871.925k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.283M	1.179M
2441MHz	Pass	Inf	1.257M	1.172M
2480MHz	Pass	Inf	1.308M	1.183M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.261M	1.179M
2441MHz	Pass	Inf	1.261M	1.176M
2480MHz	Pass	Inf	1.293M	1.179M

Port X-N dB = Port X 20dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

BT-BR(1Mbps)

EBW-FS

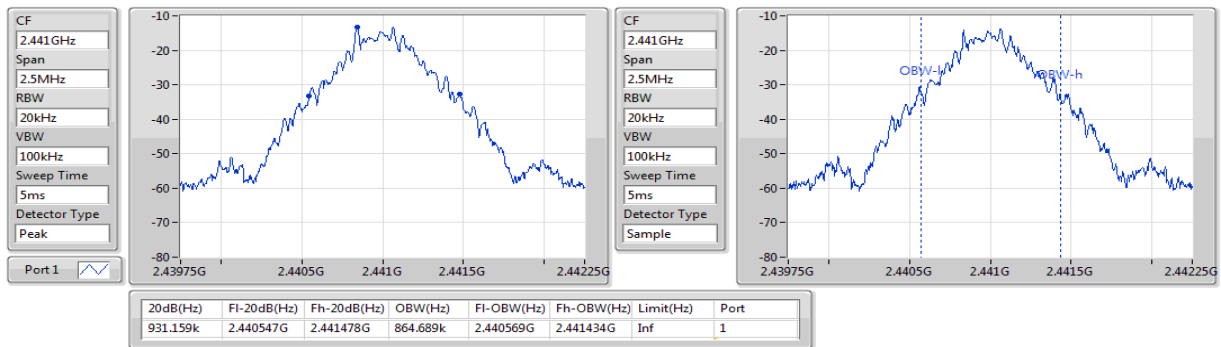
2402MHz



BT-BR(1Mbps)

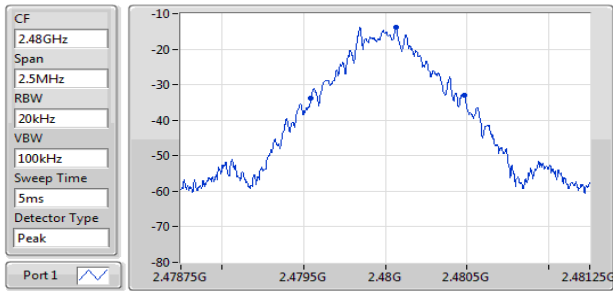
EBW-FS

2441MHz



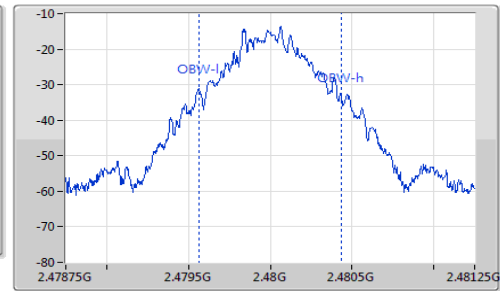
BT-BR(1Mbps)

2480MHz



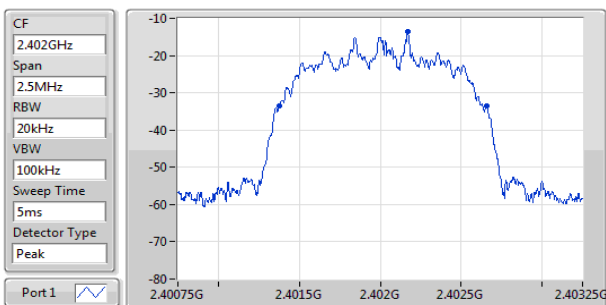
20dB(Hz)	FI-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
938.406k	2.479547G	2.480486G	871.925k	2.479566G	2.480438G	Inf	1

EBW-FS



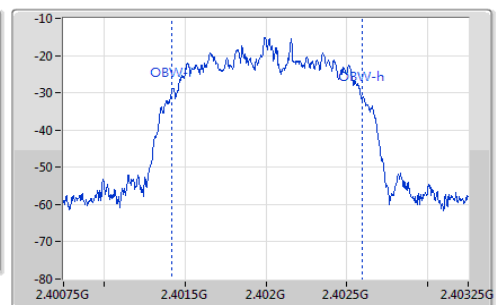
BT-EDR(2Mbps)

2402MHz



20dB(Hz)	FI-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.283M	2.401377G	2.402659G	1.179M	2.401418G	2.402597G	Inf	1

EBW-FS

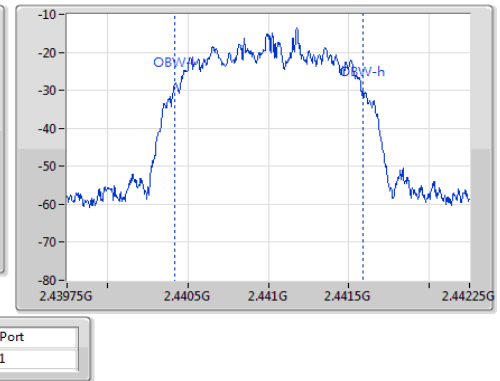


BT-EDR(2Mbps)

2441MHz

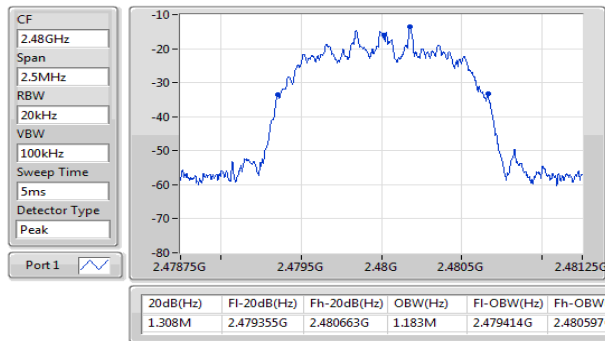


EBW-FS

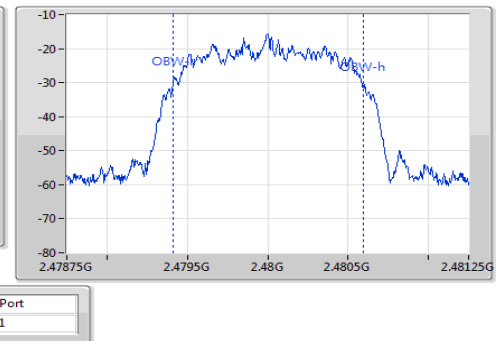


BT-EDR(2Mbps)

2480MHz

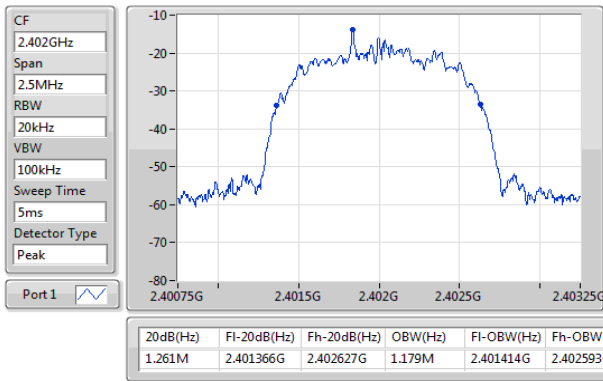


EBW-FS

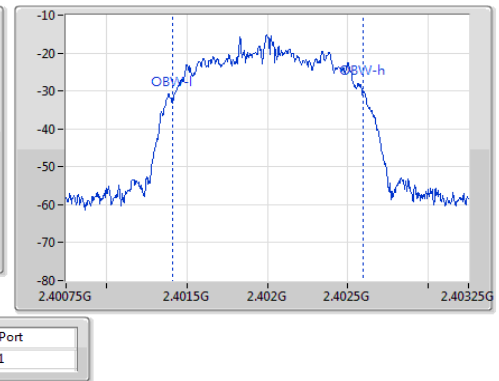


BT-EDR(3Mbps)

2402MHz

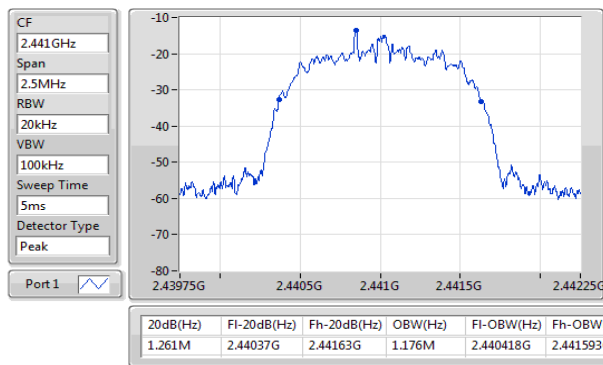


EBW-FS

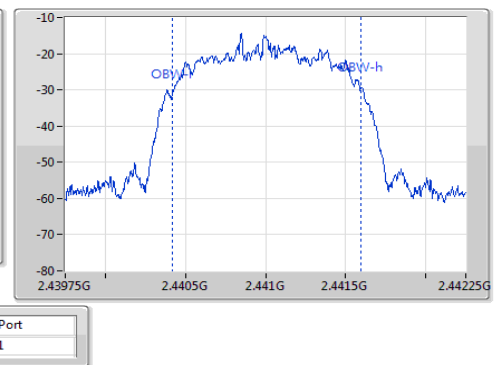


BT-EDR(3Mbps)

2441MHz

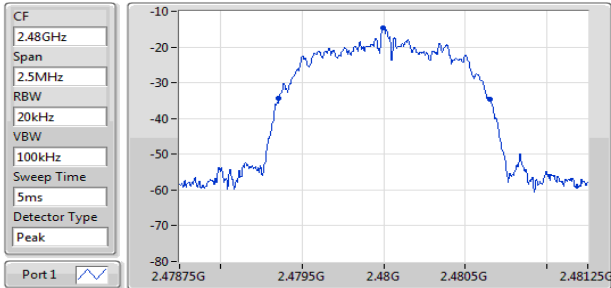


EBW-FS



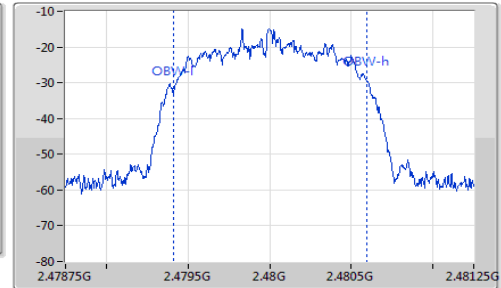
BT-EDR(3Mbps)

2480MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.293M	2.479359G	2.480652G	1.179M	2.479414G	2.480593G	Inf	1

EBW-FS



3.7 Channel Separation

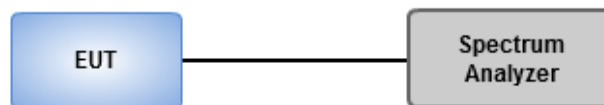
3.7.1 Limit of Channel Separation

- ☐ Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.
- ☒ Frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

3.7.2 Test Procedures

1. Set RBW=30kHz, VBW=100kHz, Sweep time = Auto, Detector=Peak Trace max hold
2. Allow trace to stabilize
3. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The EUT shall show compliance with the appropriate regulatory limit

3.7.3 Test Setup



3.7.4 Test result of Channel Separation

Ambient Condition	22°C / 67%	Tested By	Brad Wu
--------------------------	------------	------------------	---------

Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.004348M	1M
BT-EDR(2Mbps)	1.004348M	1M
BT-EDR(3Mbps)	1.004348M	1M

Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.401843G	2.402843G	1M	627.391314k
2441MHz	Pass	2.440839G	2.441843G	1.004348M	620.151894k
2480MHz	Pass	2.478839G	2.479843G	1.004348M	624.978396k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.402174G	2.403174G	1M	854.478k
2441MHz	Pass	2.44117G	2.442174G	1.004348M	837.162k
2480MHz	Pass	2.47917G	2.480174G	1.004348M	871.128k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.401843G	2.402843G	1M	839.826k
2441MHz	Pass	2.440839G	2.441843G	1.004348M	839.826k
2480MHz	Pass	2.478839G	2.479843G	1.004348M	861.138k

BT-BR(1Mbps)

2.402G/2.403GHz

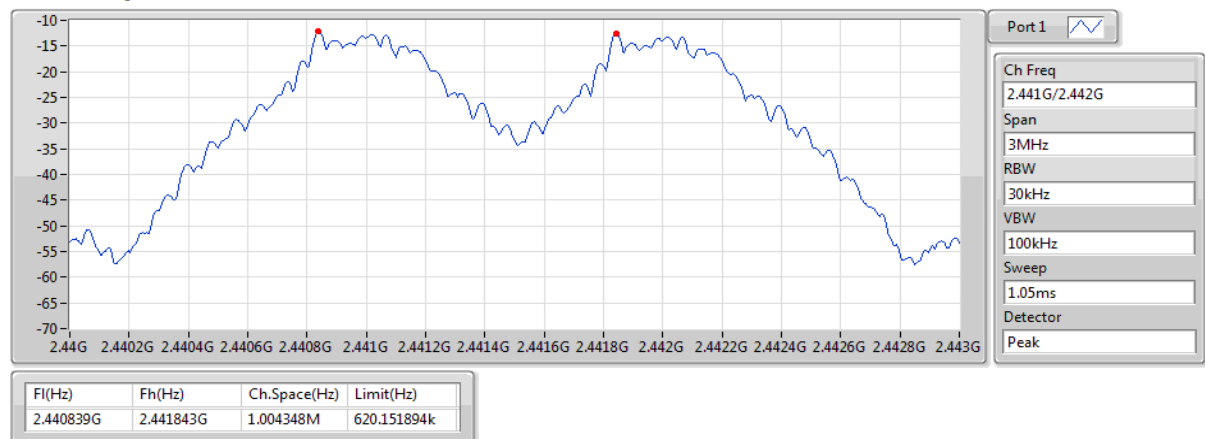
Channel Separation-FS



BT-BR(1Mbps)

2.441G/2.442GHz

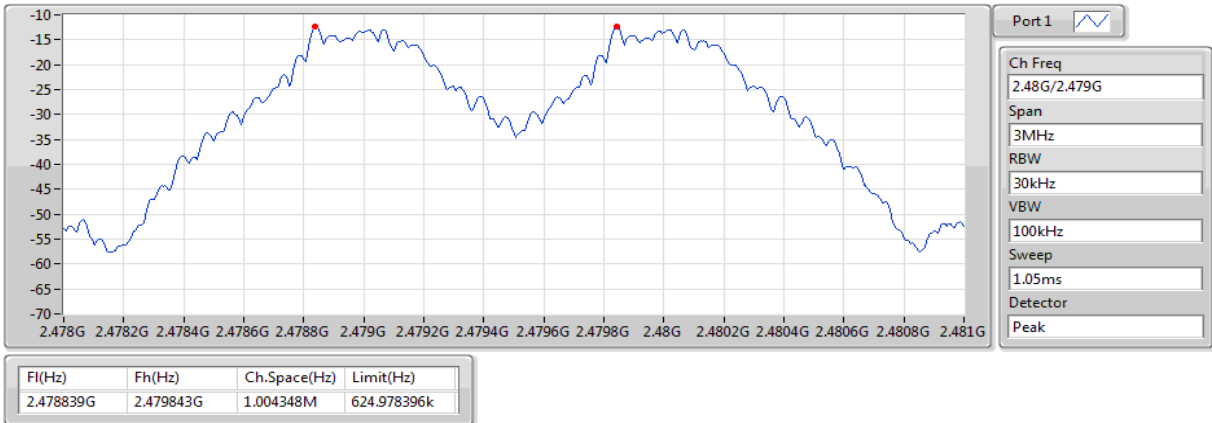
Channel Separation-FS



BT-BR(1Mbps)

2.48G/2.479GHz

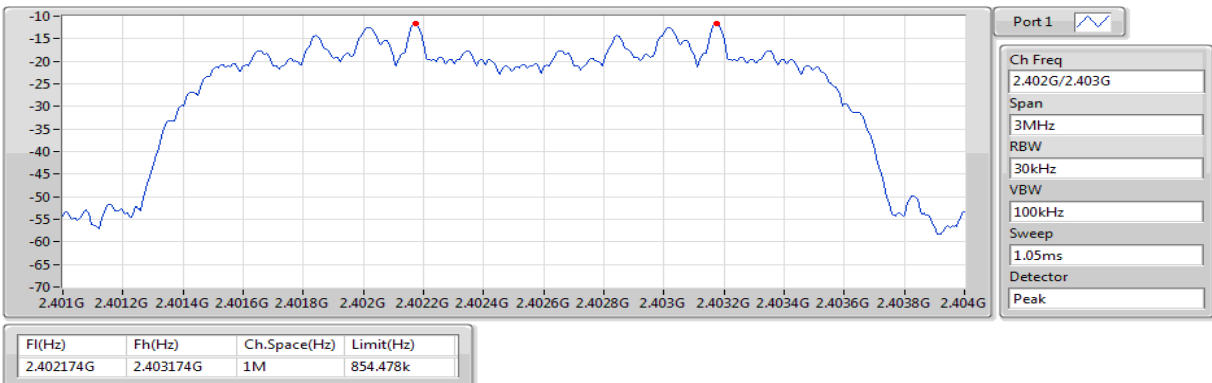
Channel Separation-FS



BT-EDR(2Mbps)

2.402G/2.403GHz

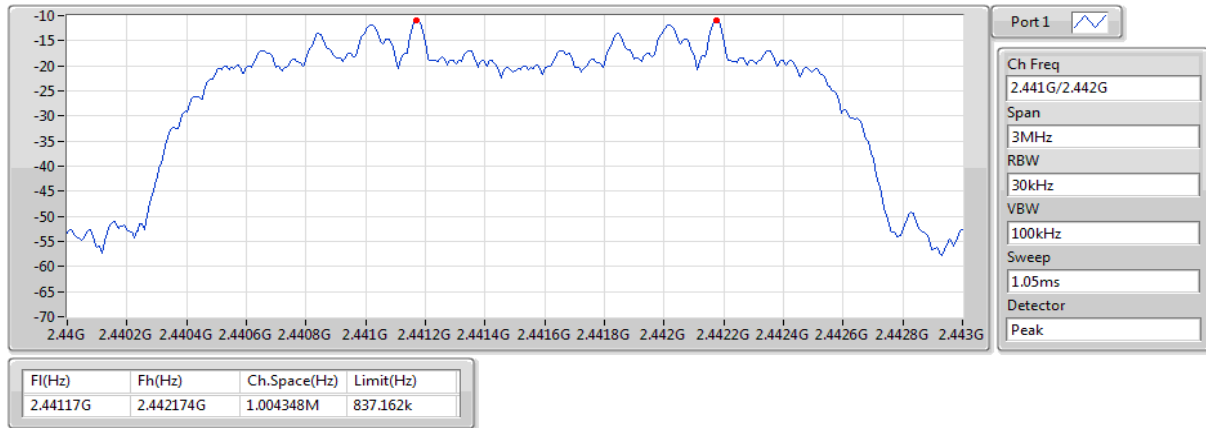
Channel Separation-FS



BT-EDR(2Mbps)

2.441G/2.442GHz

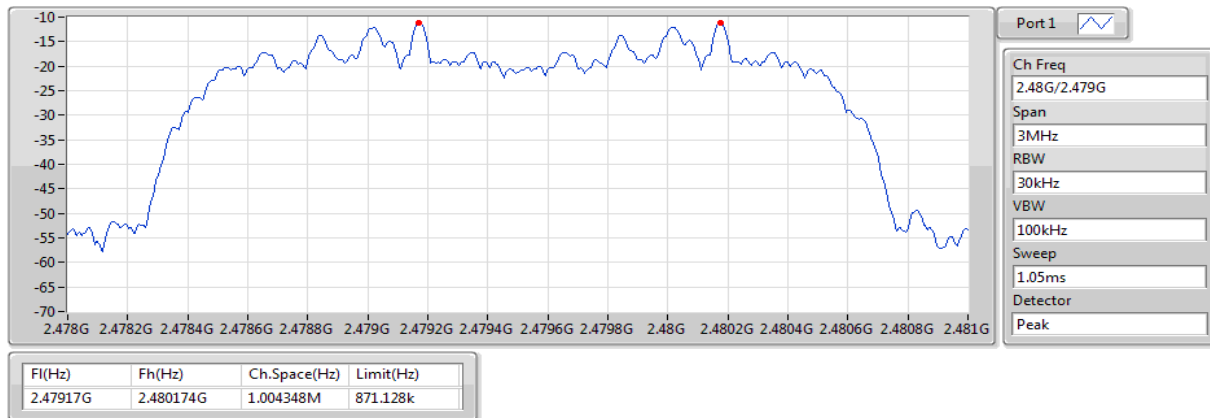
Channel Separation-FS



BT-EDR(2Mbps)

2.48G/2.479GHz

Channel Separation-FS



BT-EDR(3Mbps)

2.402G/2.403GHz

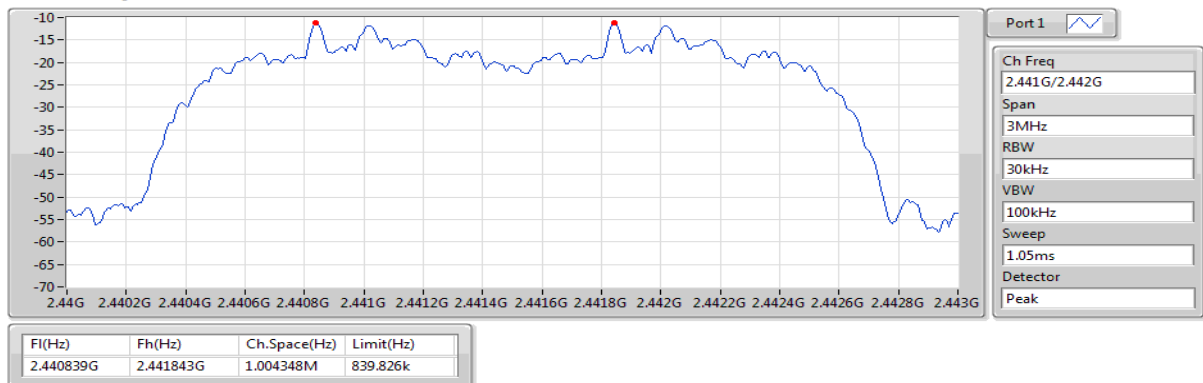
Channel Separation-FS



BT-EDR(3Mbps)

2.441G/2.442GHz

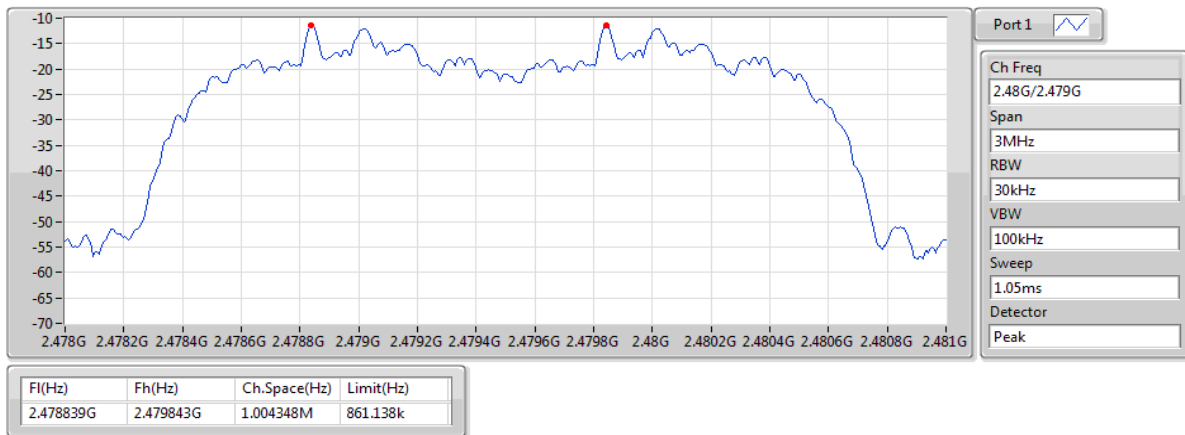
Channel Separation-FS



BT-EDR(3Mbps)

Channel Separation-FS

2.48G/2.479GHz



3.8 Number of Dwell Time

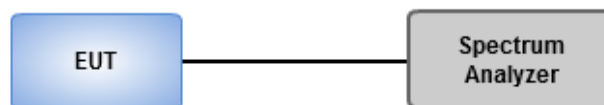
3.8.1 Limit of Dwell time

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

3.8.2 Test Procedures

1. Set RBW=300 kHz, VBW=1 MHz, Sweep time=8 ms, Detector=Peak, Span=0 Hz, Trace max hold.
2. Enable gating and trigger function of spectrum analyzer to measure burst on time.
3. Set RBW=300 kHz, VBW=1 MHz, Sweep time=5 s / 2 s, Detector=Peak, Span=0 Hz, Trace max hold.
4. Enable gating and trigger function of spectrum analyzer to measure burst on number of transmission.
5. Set RBW=300 kHz, VBW=1 MHz, Sweep time=31.6 s / 8 s, Detector=Peak, Span=0 Hz, Trace max hold.
6. Enable gating and trigger function of spectrum analyzer to measure burst on number of transmission of entire time cycle.

3.8.3 Test Setup



3.8.4 Test Result of Dwell Time

Ambient Condition	22°C / 67%	Tested By	Brad Wu
-------------------	------------	-----------	---------

Summary

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	347.09124m_DH5
BT-EDR(2Mbps)	311.06566m_DH5
BT-EDR(3Mbps)	311.33426m_DH5
BT-BR-AFH(1Mbps)	289.05m_DH5-AFH
BT-EDR-AFH(2Mbps)	312.714m_DH5-AFH
BT-EDR-AFH(3Mbps)	301.99m_DH5-AFH

Result/ Non AFH mode

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (ms)	Number of transmission in a 5 s
BT-BR(1Mbps)	-	-	-	-	-	-
2402MHz_DH5	PASS	31.6	0.34709	0.4	2.89050	19
BT-EDR(2Mbps)	-	-	-	-	-	-
2402MHz_DH5	PASS	31.6	0.31107	0.4	2.89525	17
BT-EDR(3Mbps)	-	-	-	-	-	-
2402MHz_DH5	PASS	31.6	0.31133	0.4	2.89775	17

Note 1: Dwell time =Number of transmission in a 5 second x Tx On Time x 6.32

Note 2: DH5 was the worst mode.

Result/ AFH mode

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (ms)	Number of transmission in a 2 s
BT-BR-AFH(1Mbps)	-	-	-	-	-	-
2402MHz_DH5	PASS	8	0.28905	0.4	2.89050	25
BT-EDR-AFH(2Mbps)	-	-	-	-	-	-
2402MHz_DH5	PASS	8	0.31271	0.4	2.89550	27
BT-EDR-AFH(3Mbps)	-	-	-	-	-	-
2402MHz_DH5	PASS	8	0.30199	0.4	2.90375	26

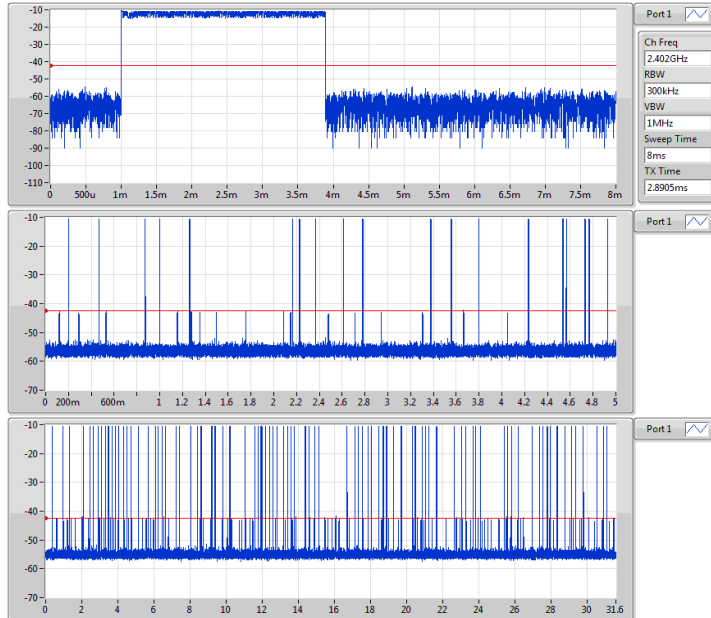
Note 1: Dwell time =Number of transmission in a 2 second x Tx On Time x 4

Note 2: DH5 was the worst mode.

BT-BR(1Mbps)

Dwell-FS

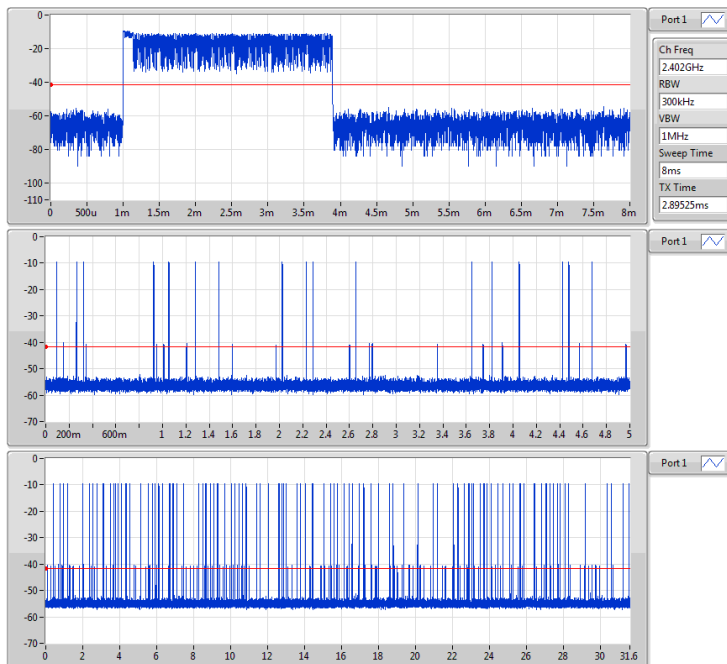
2402MHz



BT-EDR(2Mbps)

Dwell-FS

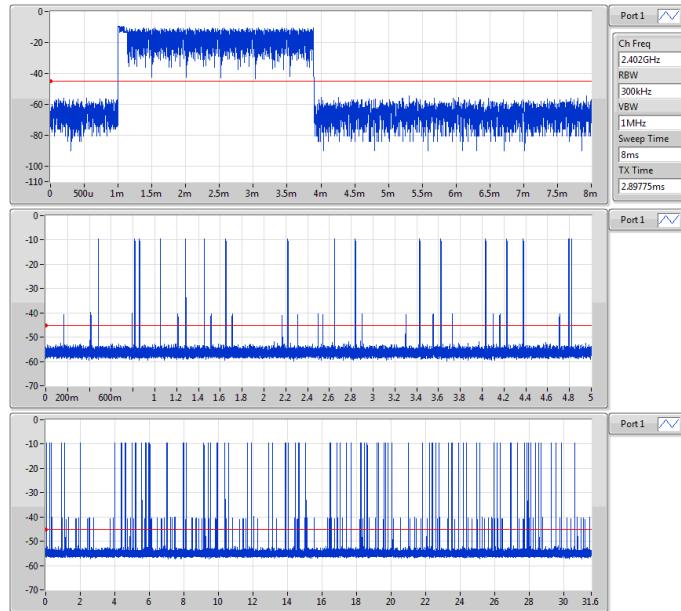
2402MHz



BT-EDR(3Mbps)

Dwell-FS

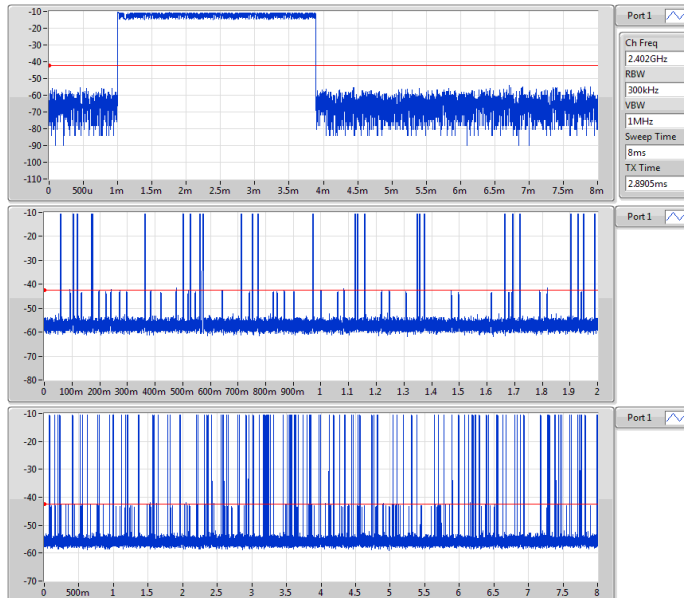
2402MHz



BT-BR-AFH(1Mbps)

Dwell-FS

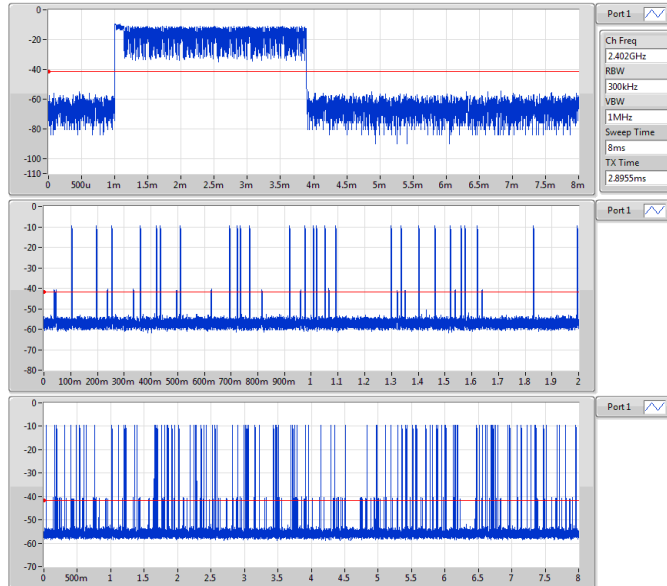
2402MHz



BT-EDR-AFH(2Mbps)

Dwell-FS

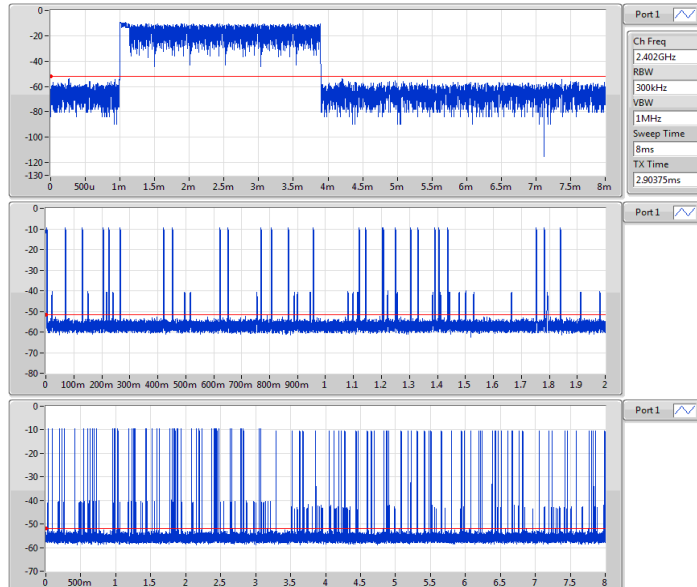
2402MHz



BT-EDR-AFH(3Mbps)

Dwell-FS

2402MHz



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

==END==