

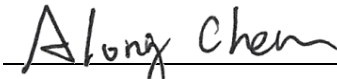
ISED Test Report

IC : 3147A-VEDAIF913
Equipment : 802.11ax Wi-Fi 6E + BT5.4 Module
Model No. : Veda IF913
Brand Name : Ezurio
Applicant : Ezurio LLC
Address : W66N220 Commerce Court, Cedarburg, WI
53012 United States Of America
Manufacturer : Ezurio LLC
Address : W66N220 Commerce Court, Cedarburg, WI
53012 United States Of America
Standard : RSS-247 Issue 4 July 2025
Received Date : Jan. 12, 2026
Tested Date : Feb. 27 ~ Mar. 09, 2026

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 / Manager


Gary Chang / Manager

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Appendix A. 6dB and Occupied Bandwidth

Appendix B. Output Power

Appendix C. Power Spectral Density

Appendix D. Unwanted Emissions into Restricted Frequency Bands

Appendix E. Emissions in Non-Restricted Frequency Bands

Appendix F. AC Power Line Conducted Emissions

Release Record

Report No.	Version	Description	Issued Date
CR611202AE	Rev. 01	Initial issue	Jun. 15, 2026

Summary of Test Results

IC Rules	Test Items	Measured	Result
RSS-Gen Section 8.8	AC Power Line Conducted Emissions	[dBuV]: 0.153MHz 50.96 (Margin -14.86dB) - QP	Pass
RSS-247 Section 6.6 RSS-Gen Section 8.9	Unwanted Emissions	[dBuV/m at 3m]: 67.83MHz 30.57 (Margin -9.43dB) - PK	Pass
RSS-247 Section 6.3.2	Output Power	Power [dBm]: 7.10	Pass
RSS-247 Section 6.3.1 (a)	6dB Bandwidth	Meet the requirement of limit	Pass
RSS-247 Section 6.3.1 (b)	Power Spectral Density	Meet the requirement of limit	Pass
N/A	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 Product Details

Model Name	Part No.	Product Name	Description
Veda IF913	453-00400	802.11ax Wi-Fi 6E + BT5.4 Module	Module, Veda IF913, SIP, Tri Band, No Embedded Memory, RF Trace Pin
	453-00401		Module, Veda IF913, SIP, Tri Band, Embedded Ext. Memory, 8M PSRAM, 8M Flash, RF Trace Pin

1.1.2 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	LE	2402-2480	0-39 [40]	125 kbps
				500 kbps
				1 Mbps
				2 Mbps
Note: Bluetooth LE (Low energy) uses GFSK modulation.				

1.1.3 Antenna Details

Integrated Antenna

Brand / Model	Part Number	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
				2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
Yageo / Chip Antenna	ANT1608LL1 4R2460A	Chip	NA	2.3	0.1	0.1	1.8	2.5

Brand / Model	Part Number	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)			
				5925~6425	6425~6525	6525~6875	6875~7125
Yageo / Chip Antenna	ANT1608LL1 4R2460A	Chip	NA	2.7	3.3	2.8	3.4

External Antenna

Brand / Model	Part Number	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
				2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
Ezurio / FlexMIMO 6E	EFD2471A3S-10MH4L	PIFA	MHF4L	2.2	3.8	3.8	3.8	3.8
Ezurio / FlexPIFA 6E	EFB2471A3S-10MH4L	PIFA	MHF4L	2.2	3.9	3.9	3.9	3.9
Ezurio / Mini NanoBlade Flex 6GHz	EMF2471A3S-10MH4L	PCB Dipole	MHF4L	2.4	4.4	4.4	4.4	4.4
Joymax Electronics / Dipole 6E	TWX-100BR S3B	Dipole	RP-SMA	2	4	4	4	4
Ezurio / FlexPIFA Dual Band	001-0021	PIFA	IPEX MHF4L	2.5	3	3	3	3
Ezurio / FlexPIFA Dual Band	EFB2455A3S-15MH4L	PIFA	MHF1	2.5	3	3	3	3

Brand / Model	Part Number	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)			
				5925~6425	6425~6525	6525~6875	6875~7125
Ezurio / FlexMIMO 6E	EFD2471A3S-10MH4L	PIFA	MHF4L	3.3	3.3	3.3	3.3
Ezurio / FlexPIFA 6E	EFB2471A3S-10MH4L	PIFA	MHF4L	3.8	3.8	3.8	3.8
Ezurio / Mini NanoBlade Flex 6GHz	EMF2471A3S-10MH4L	PCB Dipole	MHF4L	5.2	5.2	5.2	5.2
Joymax Electronics / Dipole 6E	TWX-100BR S3B	Dipole	RP-SMA	4	4	4	4

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	3.3Vdc from host
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1.1.5 Test Sample Information

Serial Number of Test Sample	Radiated Emission: 00037 AC Power Line Conducted Emission: 00037 Antenna Port Conducted: 00037
------------------------------	--

1.1.6 Channel List

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

1.1.7 Test Tool and Duty Cycle

Test Tool	AIROCBBluetooth Tool, Version: 1.2.0.2890	
Modulation Mode	Duty Cycle Of Test Signal (%)	Duty Factor (dB)
BT-LE(125kbps)	90.52%	0.43
BT-LE(500kbps)	97.37%	0.12
BT-LE(1Mbps)	85.40%	0.69
BT-LE(2Mbps)	56.90%	2.45

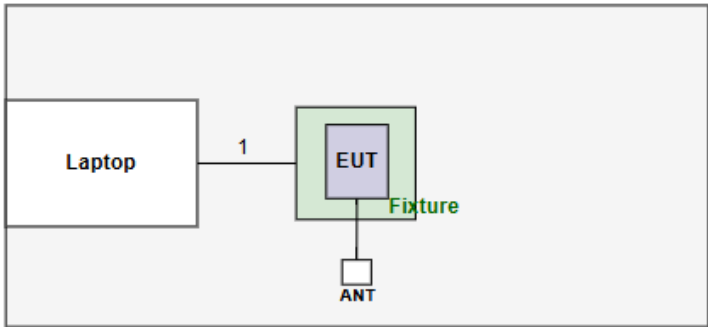
1.1.8 Power Index of Test Tool

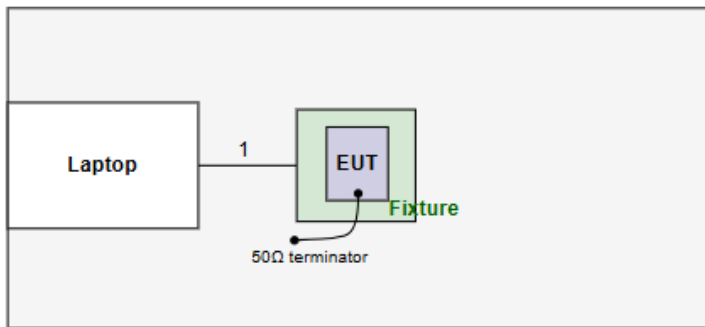
Modulation Mode	Test Frequency (MHz)		
	2402	2440	2480
BT-LE(125kbps)	default	default	default
BT-LE(500kbps)	default	default	default
BT-LE(1Mbps)	default	default	default
BT-LE(2Mbps)	default	default	default

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Laptop	DELL	Latitude E5470	DoC	---
2	Fixture	---	---	---	Provided by applicant.
3	50 ohm load	woken	WTER-18S2	---	---

1.3 Test Setup Chart

Test Setup Diagram (Conducted Emission)	
	
No.	Signal cable / Length (m)
1	USB, 1m shielded.

Test Setup Diagram (Radiated Emission)	
	
No.	Signal cable / Length (m)
1	USB, 1m shielded.

1.4 Test Equipment List and Calibration Data

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Mar. 09, 2026				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV3044	101516	Jun. 09, 2025	Jun. 08, 2026
Power Meter	Anritsu	ML2495A	1241002	Nov. 21, 2025	Nov. 20, 2026
Power Sensor	Anritsu	MA2411B	1207366	Nov. 21, 2025	Nov. 20, 2026
Attenuator	Pasternack	PE7005-10	10-2	Oct. 03, 2025	Oct. 02, 2026
Measurement Software	Sporton	SENSE-15247_DTS	V5.11	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Feb. 27 ~ Feb. 28, 2026				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 11, 2025	Mar. 10, 2026
Spectrum Analyzer	R&S	FSV40	101498	Nov. 06, 2025	Nov. 05, 2026
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 17, 2025	Nov. 16, 2026
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Sep. 05, 2025	Sep. 04, 2026
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 19, 2025	Dec. 18, 2026
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 28, 2025	Nov. 27, 2026
Preamplifier	EMC	EMC02325	980225	Jun. 13, 2025	Jun. 12, 2026
Preamplifier	EMC	EMC118A45SE	980898	Jun. 24, 2025	Jun. 23, 2026
Preamplifier	EMC	EMC184045SE	980903	Aug. 08, 2025	Aug. 07, 2026
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 01, 2025	Sep. 30, 2026
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 01, 2025	Sep. 30, 2026
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 01, 2025	Sep. 30, 2026
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 01, 2025	Sep. 30, 2026
RF Cable	EMC	EMC104-35M-35M-8000	210920	Oct. 01, 2025	Sep. 30, 2026
RF Cable	EMC	EMC104-35M-35M-3000	210922	Oct. 01, 2025	Sep. 30, 2026
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 01, 2025	Sep. 30, 2026
Attenuator	Pasternack	PE7005-10	10-1	Oct. 01, 2025	Sep. 30, 2026
HIGHPASS FILTER 3.1-18G	WHK	WHK3.1/18G-10SS	39	Oct. 01, 2025	Sep. 30, 2026
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Mar. 03, 2026				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 26, 2026	Feb. 25, 2027
LISN	R&S	ENV216	101579	May. 07, 2025	May. 06, 2026
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Mar. 21, 2025	Mar. 20, 2026
RF Cable-CON	EMC	EMCCFD300-BM-B M-6000	50821	Oct. 07, 2025	Oct. 06, 2026
50 ohm terminal	NA	50	3	Jul. 30, 2025	Jul. 29, 2026
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

RSS-247 Issue 4 July 2025

RSS-Gen Issue 5 February 2021 Amendment 2

ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024

ANSI C63.4-2014 + C63.4a-2017

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
Unwanted Emission ≤ 1 GHz	± 3.41 dB
Unwanted Emission > 1 GHz	± 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
- ISSED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Test method	Mode	Note
AC Power Line Conducted Emission	BT-LE(2Mbps)	2402	Conducted	TX	---
Unwanted Emissions $\leq 1\text{GHz}$	BT-LE(2Mbps)	2402	Radiated	TX	Note 2
Unwanted Emissions $>1\text{GHz}$	BT-LE(1Mbps) BT-LE(2Mbps)	2402, 2440, 2480	Radiated	TX	Note 2
Unwanted Emissions $\leq 1\text{GHz}$	BT-LE(2Mbps)	2402	Conducted	TX	---
Output Power 6dB bandwidth Power spectral density	BT-LE(125kbps) BT-LE(500kbps) BT-LE(1Mbps) BT-LE(2Mbps)	2402, 2440, 2480	Conducted	TX	---
Unwanted Emissions $>1\text{GHz}$	BT-LE(1Mbps) BT-LE(2Mbps)	2402, 2440, 2480	Conducted	TX	---
NOTE: - The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Y-plane result was found as the worst case and was shown in this report. - The 50Ω terminator is connected to antenna port of EUT for radiated emission measurement. - Two skus had been covered during the pretest and found that Part No. 453-00401 was the worst case and was selected for the final test. (sku 1: Part No. 453-00400, sku 2: Part No. 453-00401)					

3 Transmitter Test Results

3.1 6dB and Occupied Bandwidth

3.1.1 Limit of 6dB Bandwidth

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

3.1.2 Test Procedures

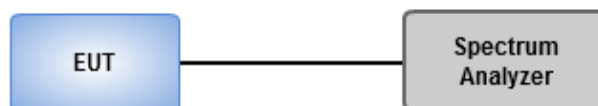
6dB Bandwidth

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

Occupied Bandwidth

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

3.1.3 Test Setup



3.1.4 Test Results

Ambient Condition	21°C / 65%	Tested By	Roger Lu
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Refer to Appendix A.

3.2 Output Power

3.2.1 Limit of Conducted Output Power and E.I.R.P

The maximum peak conducted output power shall not exceed 1W, and the e.i.r.p. shall not exceed 4 W

3.2.2 Test Procedures

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

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	21°C / 65%	Tested By	Roger Lu
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Refer to Appendix B.

3.3 Power Spectral Density

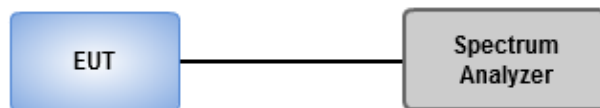
3.3.1 Limit of Power Spectral Density

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

3.3.2 Test Procedures

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

3.3.3 Test Setup



3.3.4 Test Results

Ambient Condition	21°C / 65%	Tested By	Roger Lu
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Refer to Appendix C.

3.4 Unwanted Emissions in Restricted Frequency Bands

3.4.1 Limit of Unwanted Emissions in Restricted Frequency Bands

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

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

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.4.2 Test Procedures

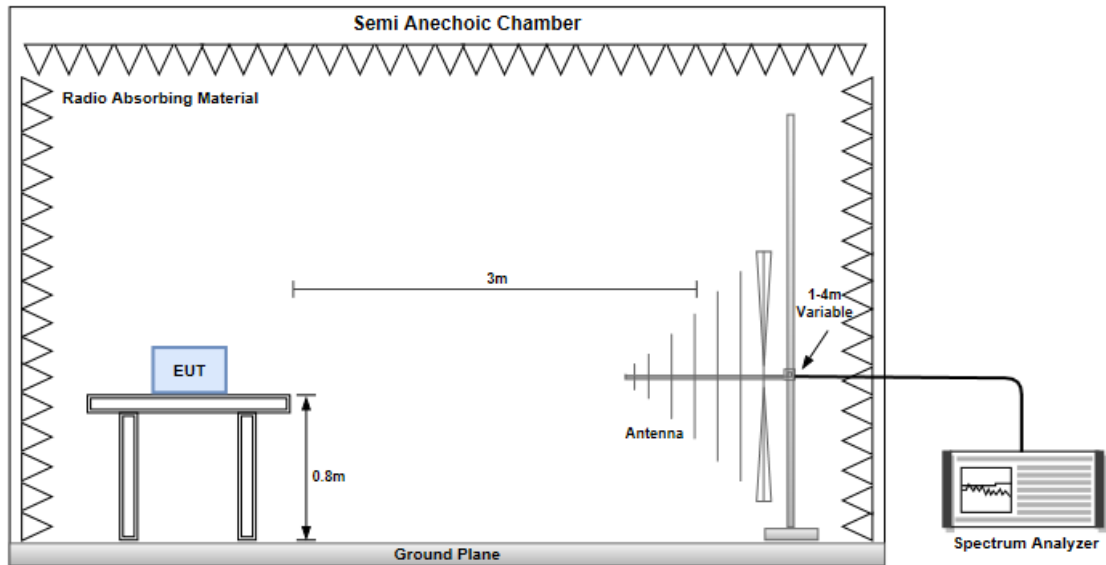
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

Note:

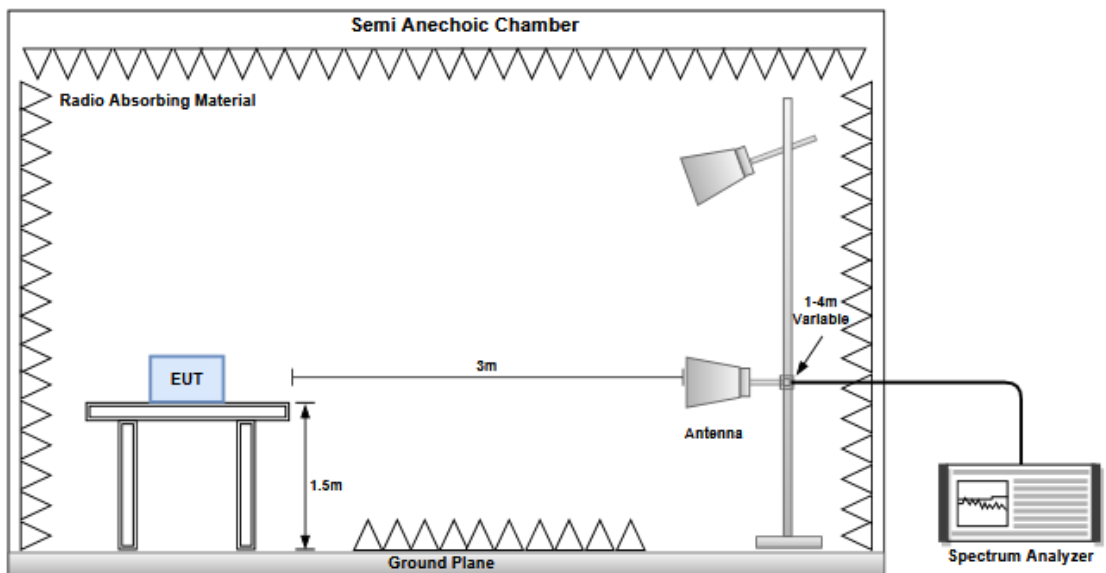
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.4.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.4.4 Test Results

Refer to Appendix D.

3.5 Emissions in non-restricted Frequency Bands

3.5.1 Emissions in non-restricted frequency bands limit

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

3.5.2 Test Procedures

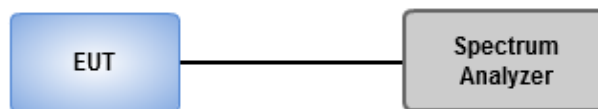
Reference level measurement

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

Emission level measurement

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

3.5.3 Test Setup



3.5.4 Test Results

Ambient Condition	21°C / 65%	Tested By	Roger Lu
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Refer to Appendix E.

3.6 AC Power Line Conducted Emissions

3.6.1 Limit of AC Power Line Conducted Emissions

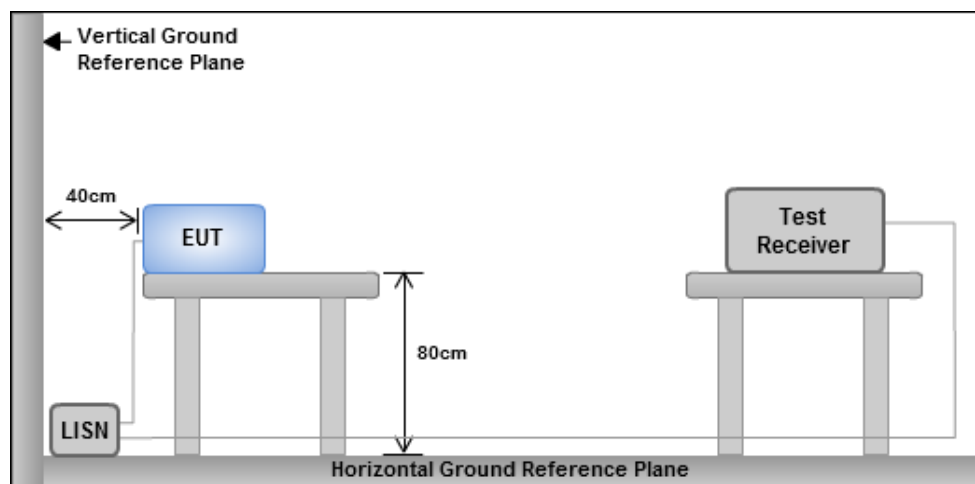
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.6.2 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

3.6.3 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

3.6.4 Test Results

Refer to Appendix F.

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 <https://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

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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 33381, Taiwan (R.O.C.)

Zhonghe

Tel: 886-2-2222-0288

1F, No. 6, Jiankang Road, Zhonghe
District, New Taipei City 235045,
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==

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(125kbps)	702.5k	1.064M	1M06F1D	698.75k	1.062M
BT-LE(500kbps)	663.75k	1.029M	1M03F1D	661.25k	1.029M
BT-LE(1Mbps)	667.5k	1.041M	1M04F1D	665k	1.04M
BT-LE(2Mbps)	1.23M	2.032M	2M03F1D	1.185M	2.03M

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(125kbps)	-	-	-	-
2402MHz	Pass	500k	698.75k	1.062M
2440MHz	Pass	500k	701.25k	1.064M
2480MHz	Pass	500k	702.5k	1.063M
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	500k	662.5k	1.029M
2440MHz	Pass	500k	663.75k	1.029M
2480MHz	Pass	500k	661.25k	1.029M
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	665k	1.04M
2440MHz	Pass	500k	665k	1.041M
2480MHz	Pass	500k	667.5k	1.04M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.185M	2.031M
2440MHz	Pass	500k	1.225M	2.032M
2480MHz	Pass	500k	1.23M	2.03M

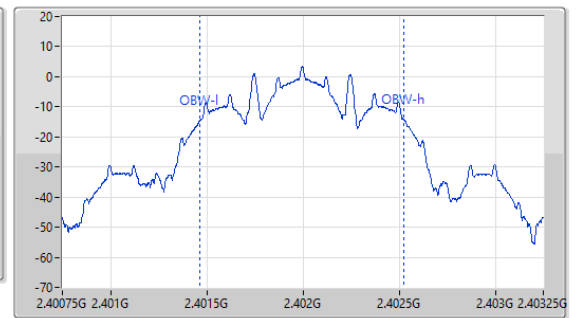
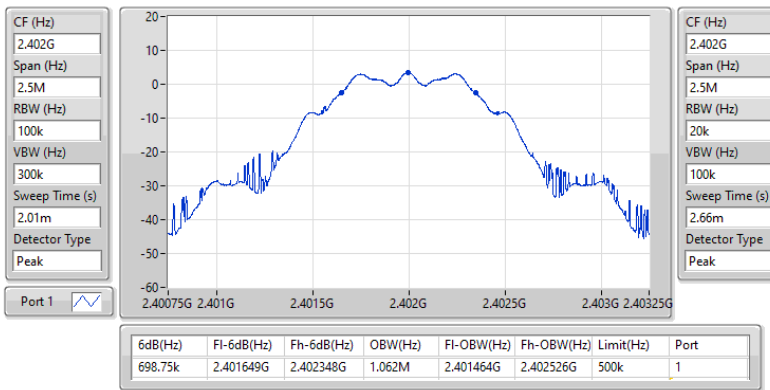
Port X-N dB = Port X 6dB down bandwidth;

Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-LE(125kbps)

EBW-DTS

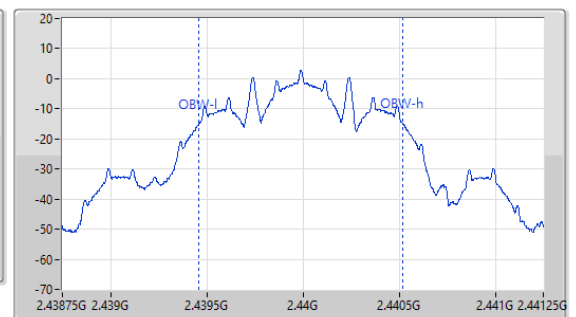
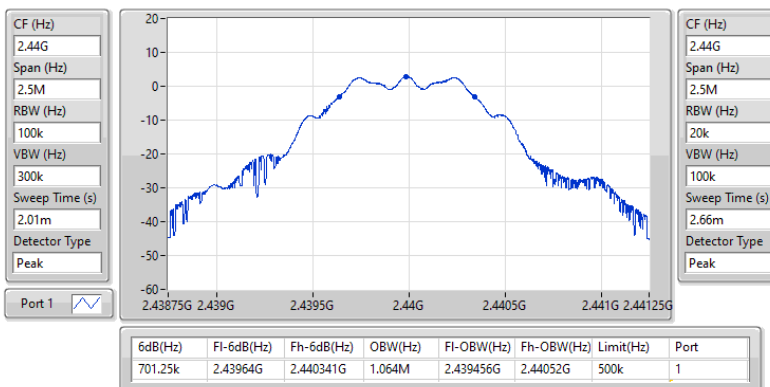
2402MHz



2.4-2.4835GHz_BT-LE(125kbps)

EBW-DTS

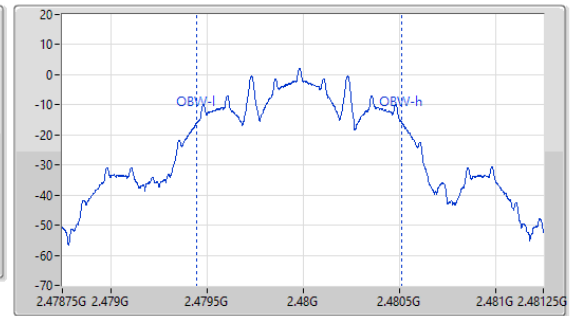
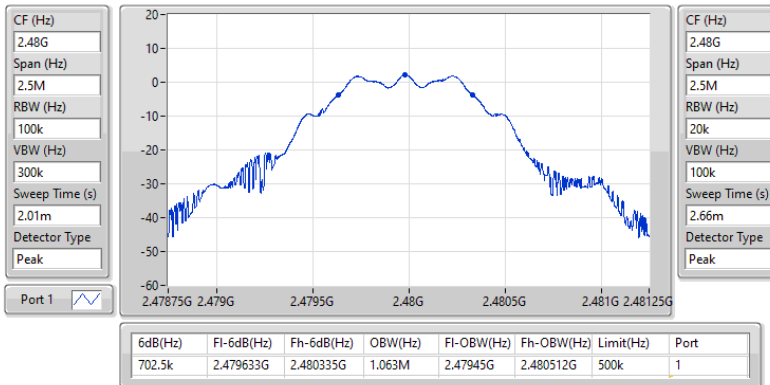
2440MHz



2.4-2.4835GHz_BT-LE(125kbps)

EBW-DTS

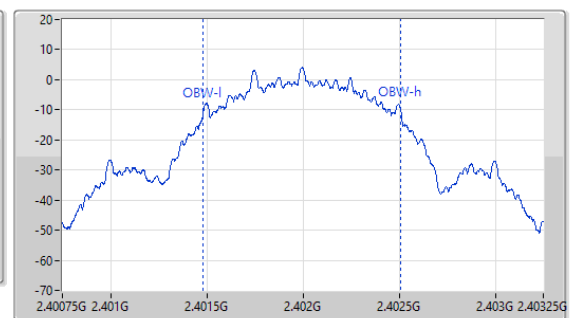
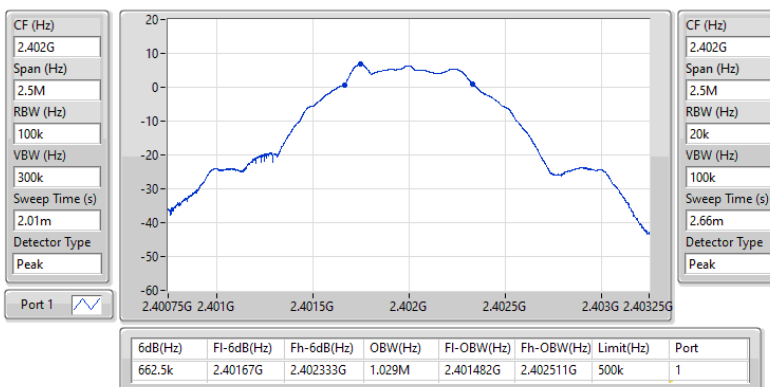
2480MHz



2.4-2.4835GHz_BT-LE(500kbps)

EBW-DTS

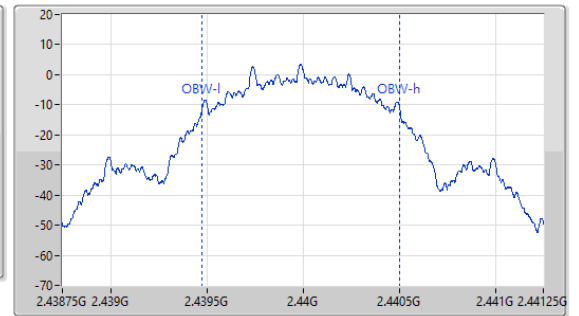
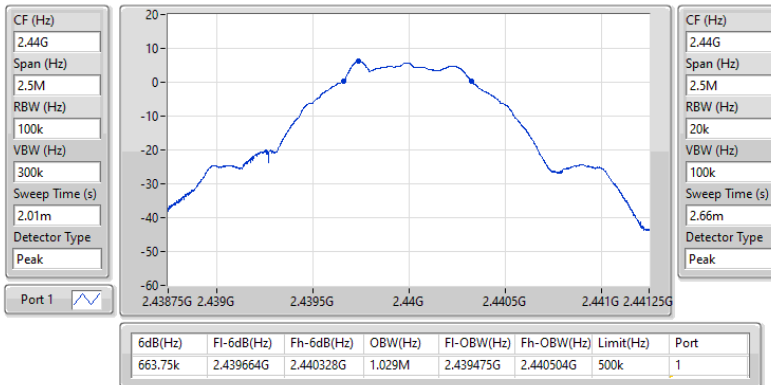
2402MHz



2.4-2.4835GHz_BT-LE(500kbps)

EBW-DTS

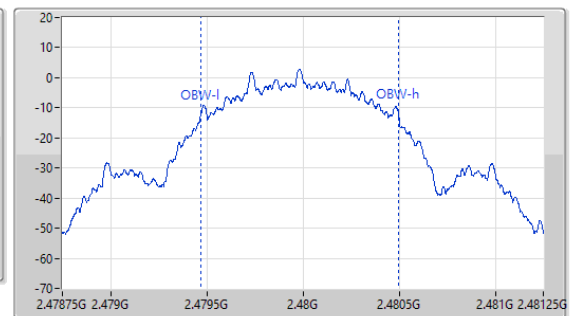
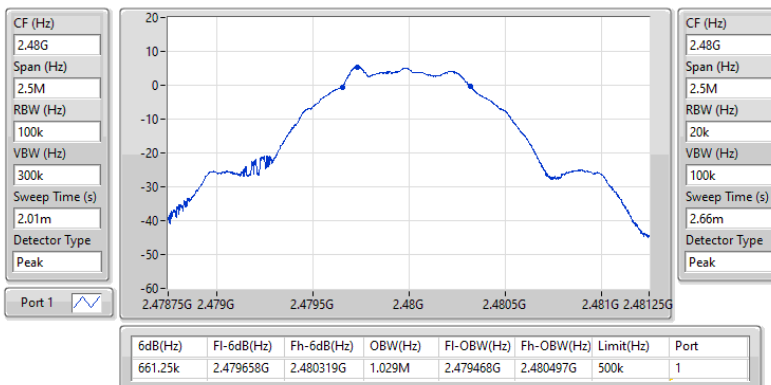
2440MHz



2.4-2.4835GHz_BT-LE(500kbps)

EBW-DTS

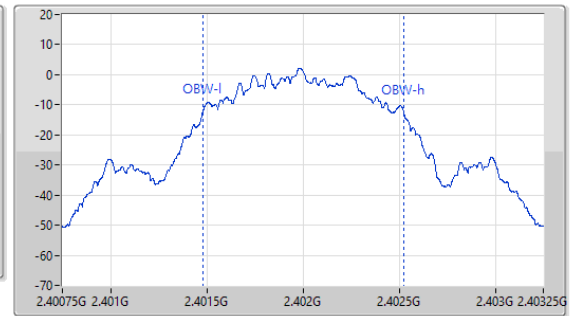
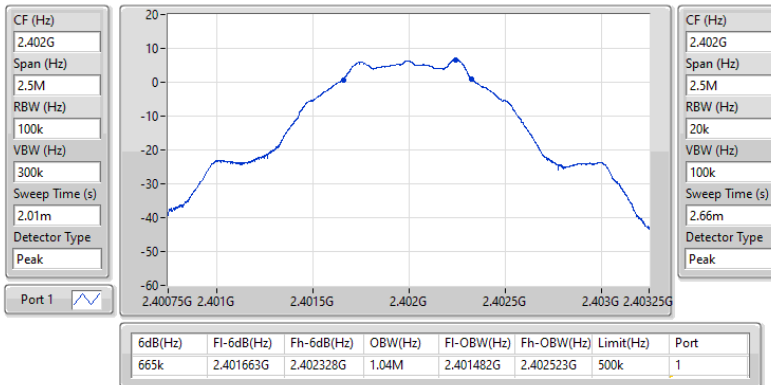
2480MHz



2.4-2.4835GHz_BT-LE(1Mbps)

EBW-DTS

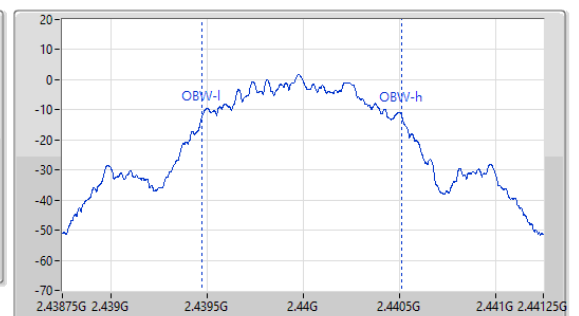
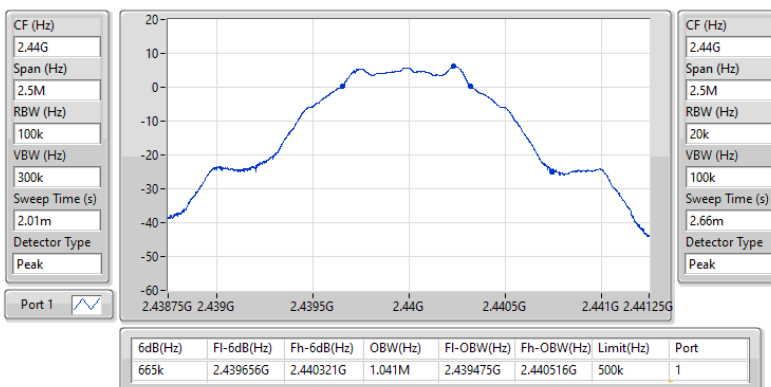
2402MHz



2.4-2.4835GHz_BT-LE(1Mbps)

EBW-DTS

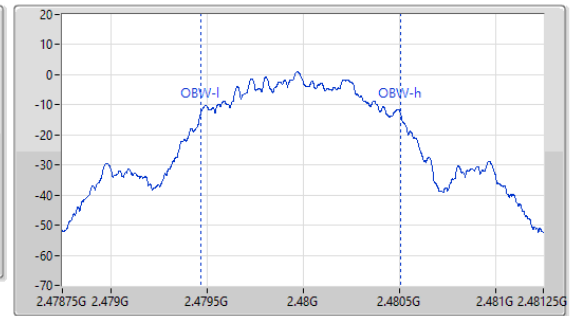
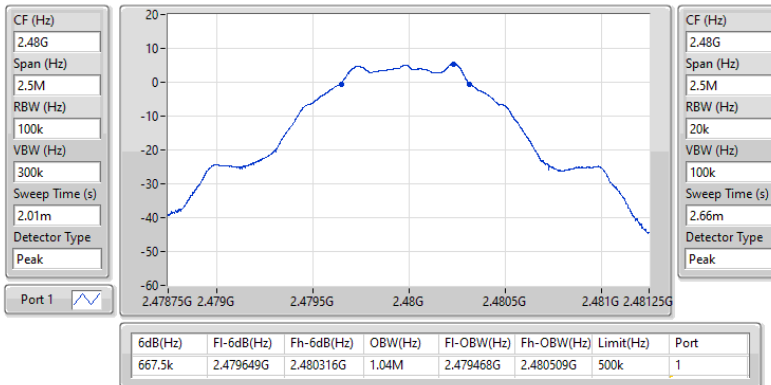
2440MHz



2.4-2.4835GHz_BT-LE(1Mbps)

EBW-DTS

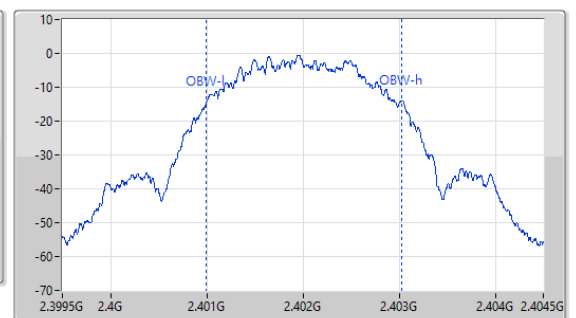
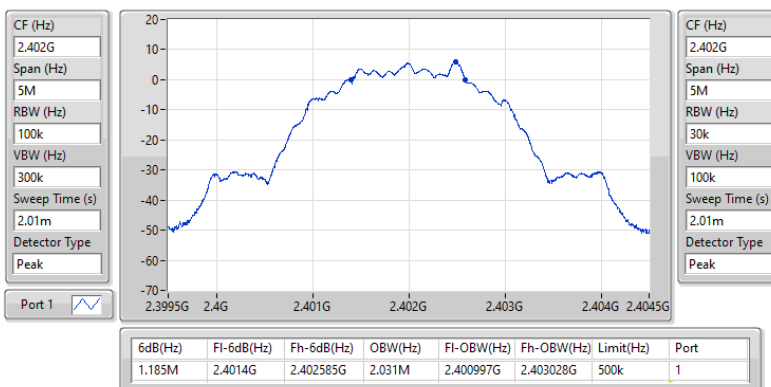
2480MHz



2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

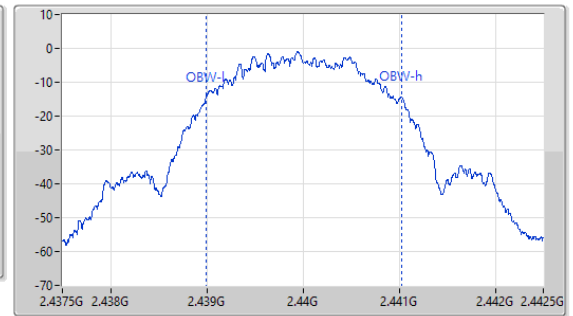
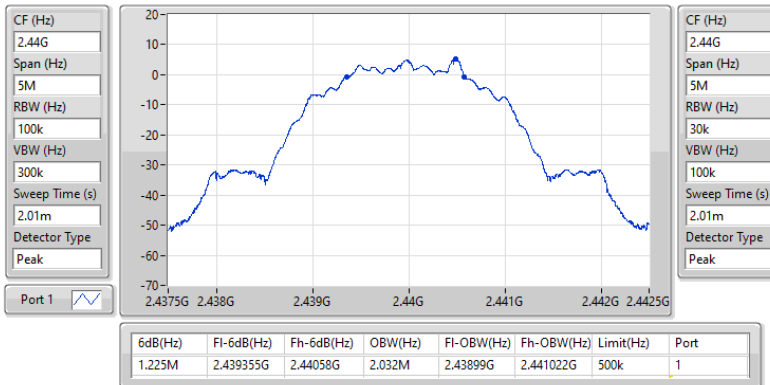
2402MHz



2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

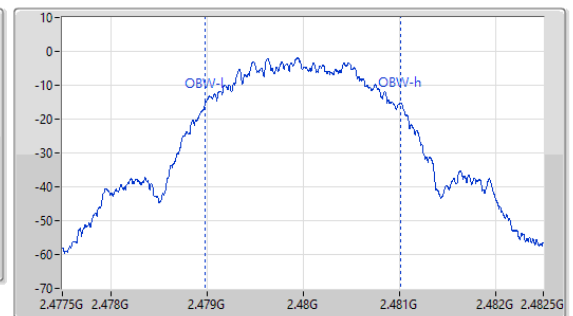
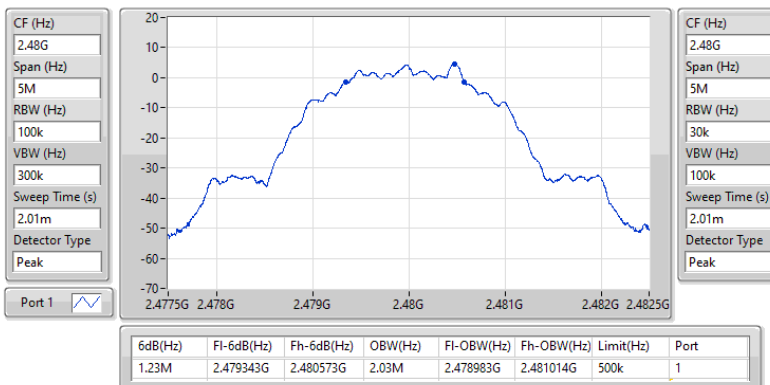
2440MHz



2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2480MHz





Conducted Output Power (Peak)

Appendix B

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(125kbps)	6.73	0.00471
BT-LE(500kbps)	6.72	0.00470
BT-LE(1Mbps)	6.75	0.00473
BT-LE(2Mbps)	7.10	0.00513

Result

Mode	Result	Antenna Gain (dBi)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
BT-LE(125kbps)	-	-	-	-	-	-
2402MHz	Pass	2.50	6.73	30.00	9.23	36.00
2440MHz	Pass	2.50	6.32	30.00	8.82	36.00
2480MHz	Pass	2.50	5.42	30.00	7.92	36.00
BT-LE(500kbps)	-	-	-	-	-	-
2402MHz	Pass	2.50	6.72	30.00	9.22	36.00
2440MHz	Pass	2.50	6.30	30.00	8.80	36.00
2480MHz	Pass	2.50	5.41	30.00	7.91	36.00
BT-LE(1Mbps)	-	-	-	-	-	-
2402MHz	Pass	2.50	6.75	30.00	9.25	36.00
2440MHz	Pass	2.50	6.35	30.00	8.85	36.00
2480MHz	Pass	2.50	5.45	30.00	7.95	36.00
BT-LE(2Mbps)	-	-	-	-	-	-
2402MHz	Pass	2.50	7.10	30.00	9.60	36.00
2440MHz	Pass	2.50	6.74	30.00	9.24	36.00
2480MHz	Pass	2.50	6.04	30.00	8.54	36.00



Conducted Output Power (Average)

Appendix B

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(125kbps)	6.50	0.00447
BT-LE(500kbps)	6.49	0.00446
BT-LE(1Mbps)	6.53	0.00450
BT-LE(2Mbps)	6.55	0.00452

Result

Mode	Result	Antenna Gain (dBi)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
BT-LE(125kbps)	-	-	-	-	-	-
2402MHz	Pass	2.50	6.50	-	9.00	-
2440MHz	Pass	2.50	6.10	-	8.60	-
2480MHz	Pass	2.50	5.21	-	7.71	-
BT-LE(500kbps)	-	-	-	-	-	-
2402MHz	Pass	2.50	6.49	-	8.99	-
2440MHz	Pass	2.50	6.09	-	8.59	-
2480MHz	Pass	2.50	5.20	-	7.70	-
BT-LE(1Mbps)	-	-	-	-	-	-
2402MHz	Pass	2.50	6.53	-	9.03	-
2440MHz	Pass	2.50	6.12	-	8.62	-
2480MHz	Pass	2.50	5.23	-	7.73	-
BT-LE(2Mbps)	-	-	-	-	-	-
2402MHz	Pass	2.50	6.55	-	9.05	-
2440MHz	Pass	2.50	6.15	-	8.65	-
2480MHz	Pass	2.50	5.42	-	7.92	-

Note: Average power is for reference only.

Summary

Mode	PD (dBm/3kHz)
2.4-2.4835GHz	-
BT-LE(125kbps)	0.51
BT-LE(500kbps)	0.15
BT-LE(1Mbps)	-9.12
BT-LE(2Mbps)	-13.07

Result

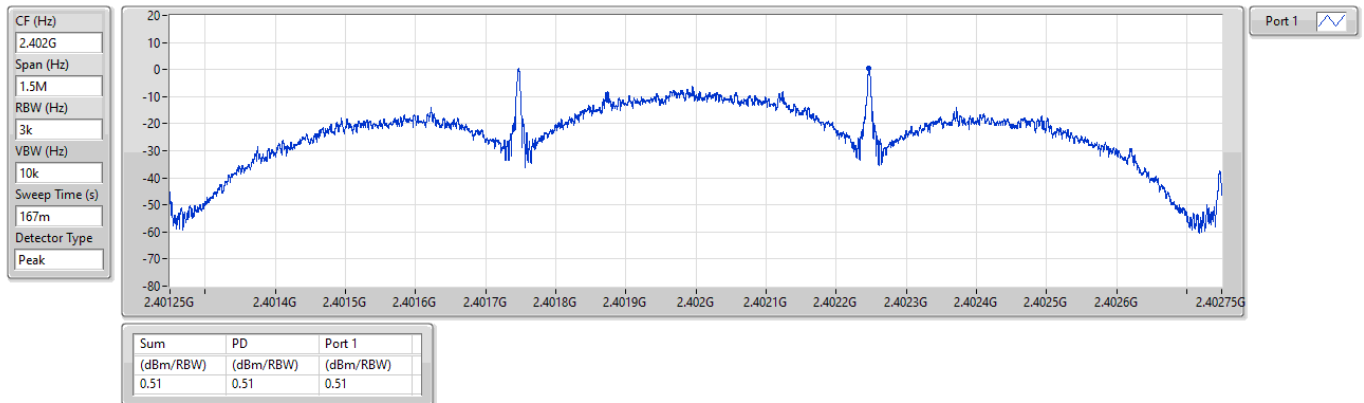
Mode	Result	Antenna Gain (dBi)	Power Density (dBm/3kHz)	Power Density Limit (dBm/3kHz)
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	2.50	0.51	8.00
2440MHz	Pass	2.50	-0.04	8.00
2480MHz	Pass	2.50	-0.73	8.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	2.50	0.15	8.00
2440MHz	Pass	2.50	-0.22	8.00
2480MHz	Pass	2.50	-1.03	8.00
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.50	-9.12	8.00
2440MHz	Pass	2.50	-9.71	8.00
2480MHz	Pass	2.50	-10.35	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	2.50	-13.07	8.00
2440MHz	Pass	2.50	-13.64	8.00
2480MHz	Pass	2.50	-14.30	8.00



2.4-2.4835GHz_BT-LE(125kbps)

PSD

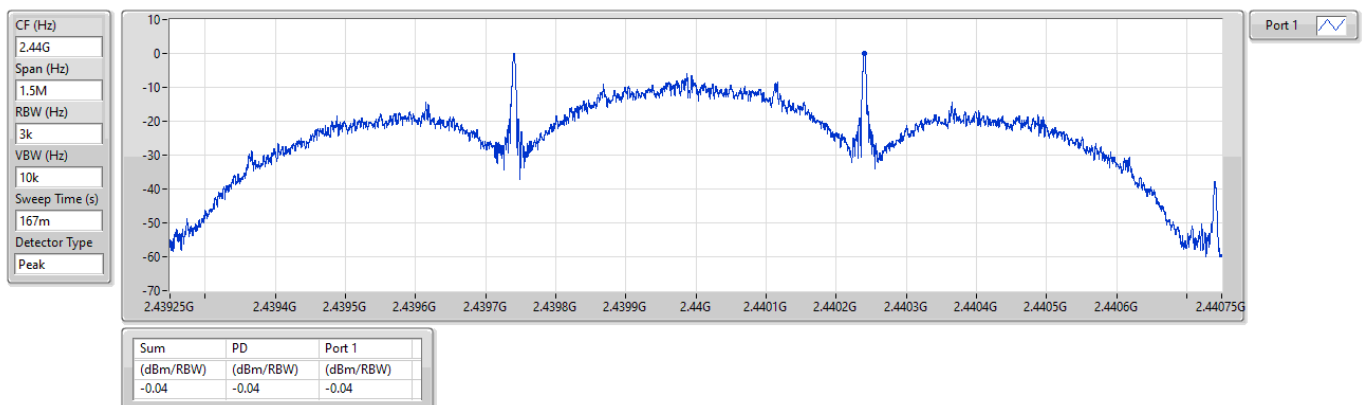
2402MHz



2.4-2.4835GHz_BT-LE(125kbps)

PSD

2440MHz

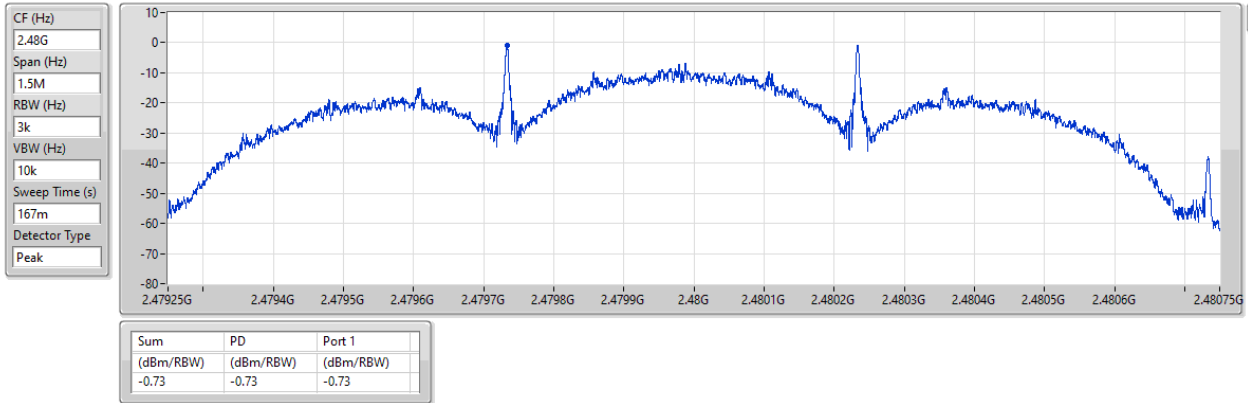




2.4-2.4835GHz_BT-LE(125kbps)

PSD

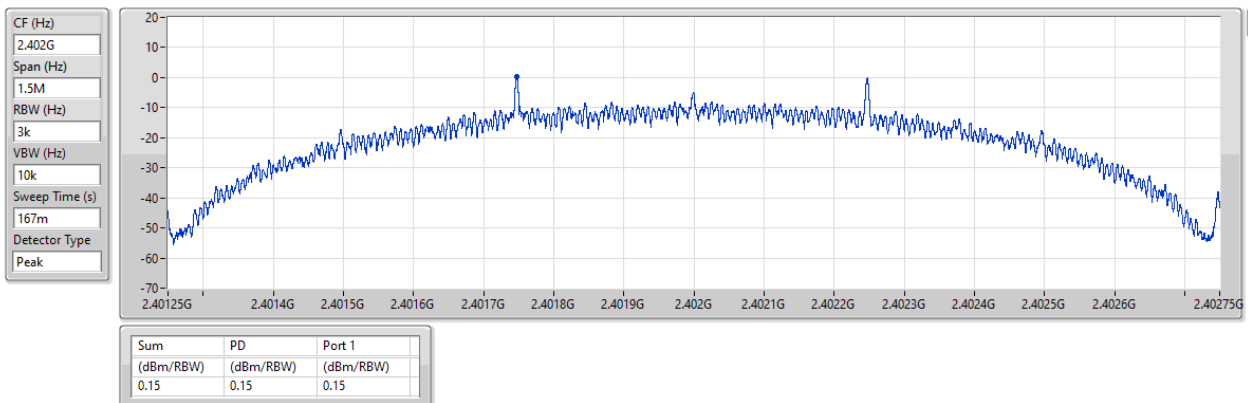
2480MHz



2.4-2.4835GHz_BT-LE(500kbps)

PSD

2402MHz

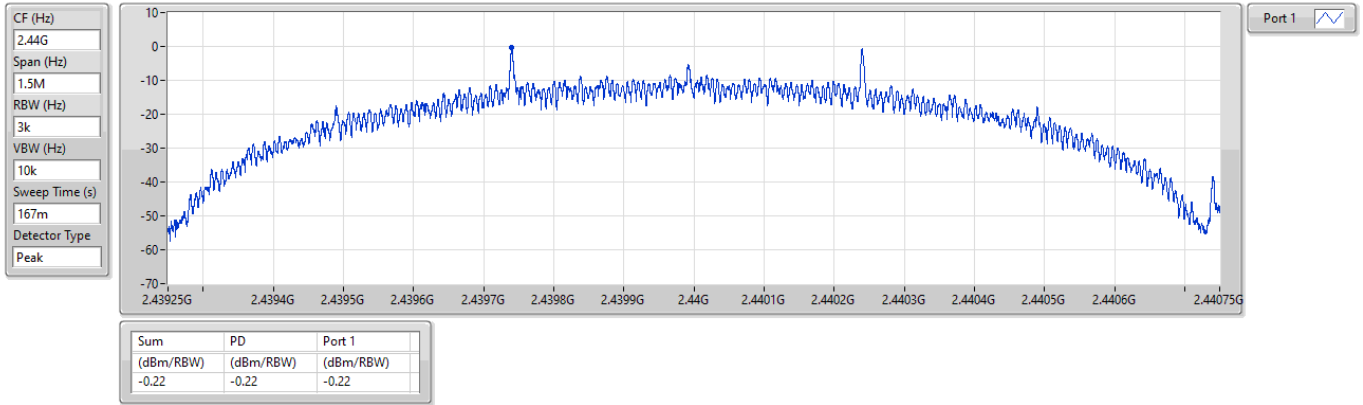




2.4-2.4835GHz_BT-LE(500kbps)

PSD

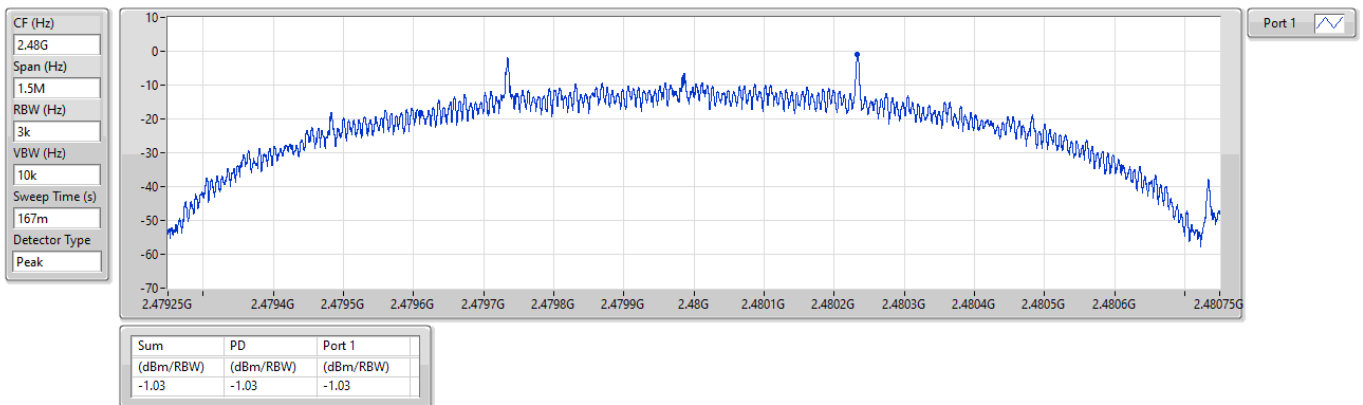
2440MHz



2.4-2.4835GHz_BT-LE(500kbps)

PSD

2480MHz



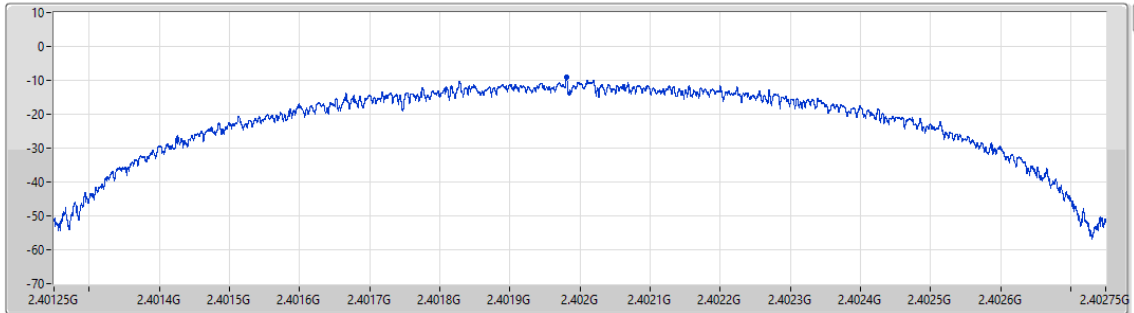


2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2402MHz

CF (Hz)
2.402G
Span (Hz)
1.5M
RBW (Hz)
3k
VBW (Hz)
10k
Sweep Time (s)
167m
Detector Type
Peak



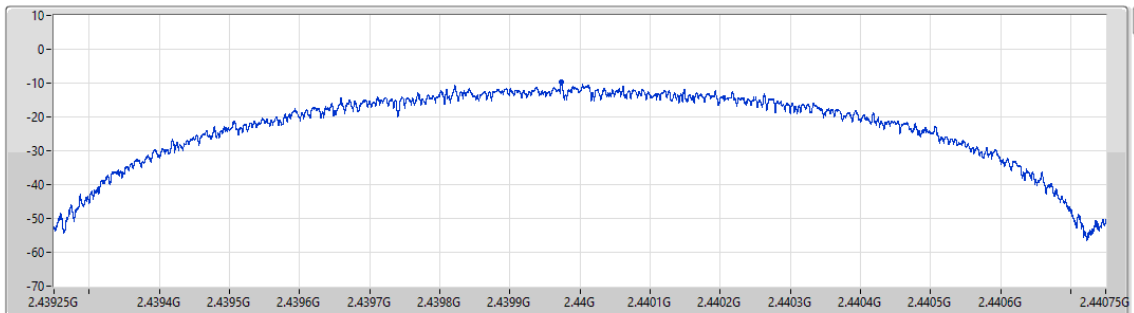
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.12	-9.12	-9.12

2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2440MHz

CF (Hz)
2.44G
Span (Hz)
1.5M
RBW (Hz)
3k
VBW (Hz)
10k
Sweep Time (s)
167m
Detector Type
Peak



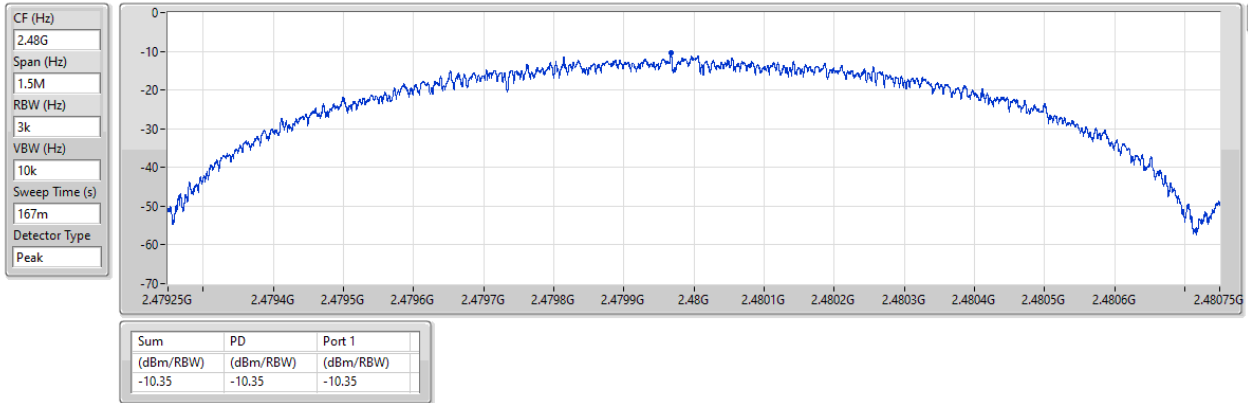
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.71	-9.71	-9.71



2.4-2.4835GHz_BT-LE(1Mbps)

PSD

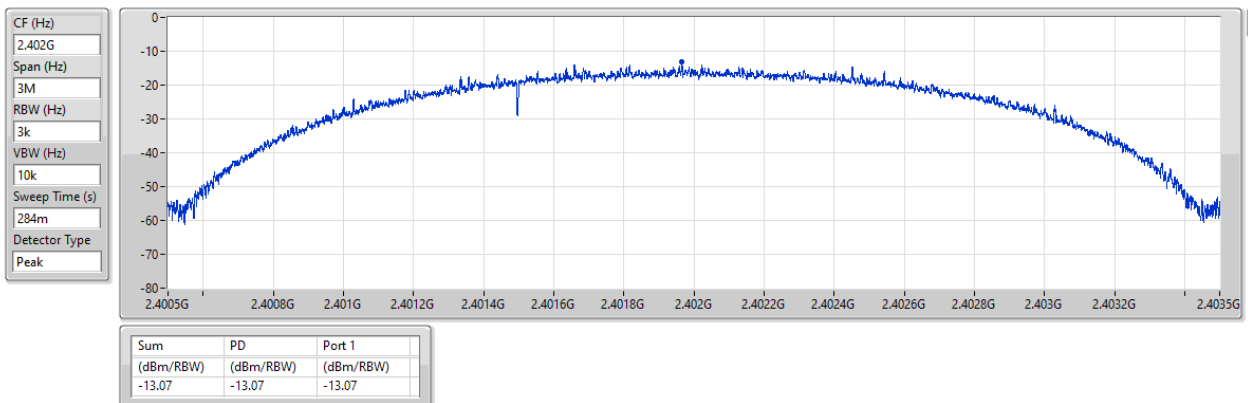
2480MHz



2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2402MHz

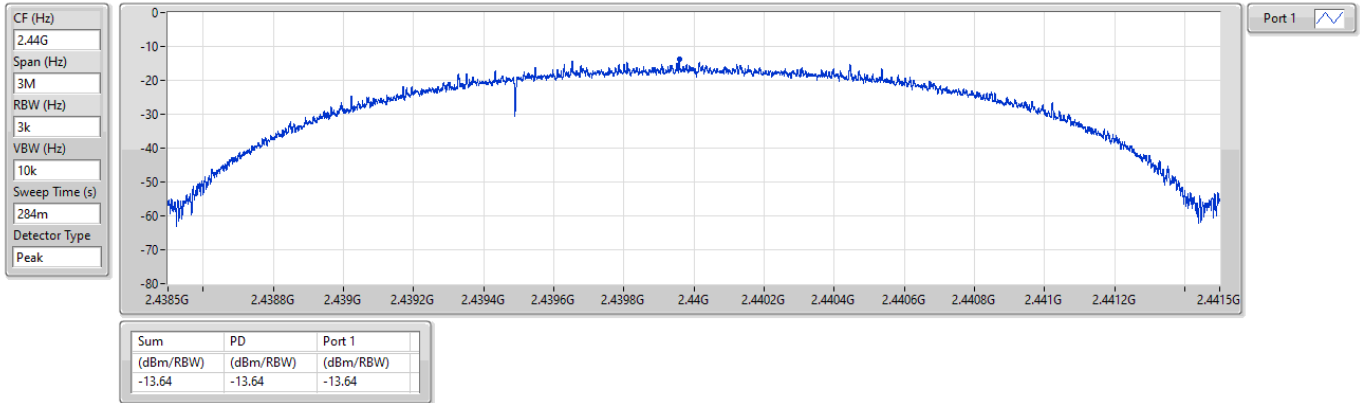




2.4-2.4835GHz_BT-LE(2Mbps)

PSD

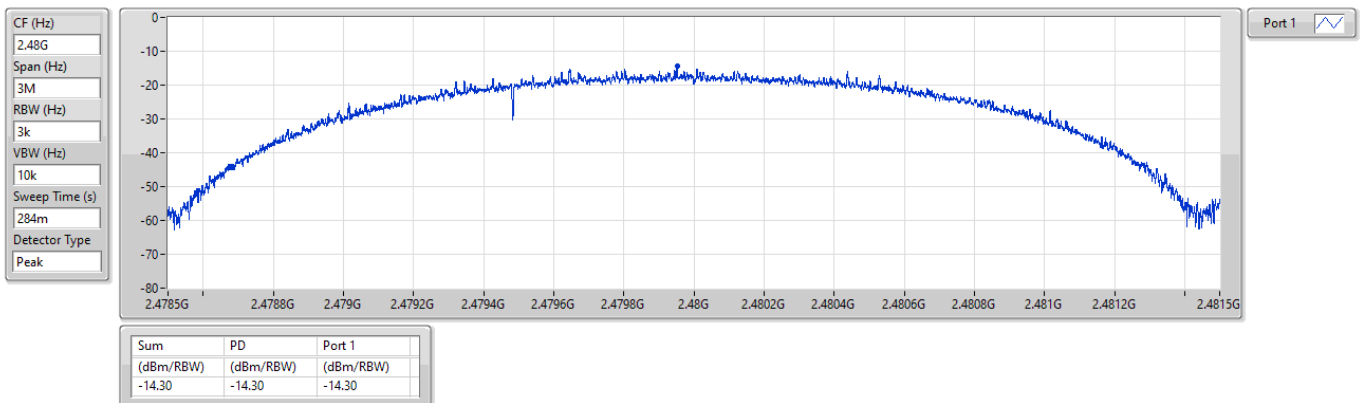
2440MHz



2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2480MHz





Unwanted Conducted Emissions into Restricted Frequency Bands - 30MHz~1GHz

Appendix D.1

Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	GRF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2.4-2.4835GHz	-	-	-	-	-	-	-		-	-	-
BT-LE(2Mbps)	Pass	30M	1G	PK	38.12M	2.50	-75.72	4.7	-68.52	-55.20	-13.32

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	GRF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
BT-LE(2Mbps)	-	-	-	-	-	-	-		-	-	-
2402MHz	Pass	30M	1G	PK	38.12M	2.50	-75.72	4.7	-68.52	-55.20	-13.32

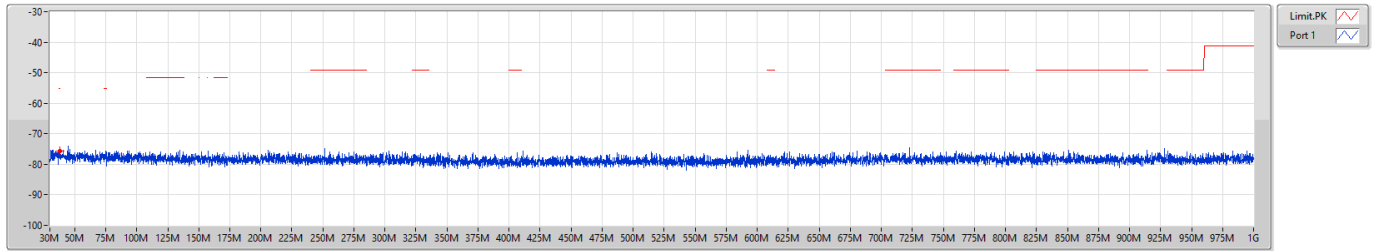
DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX



2.4-2.4835GHz_BT-LE(2Mbps)

CSE Other-DTS [PK]

2402MHz





Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.4835G	2.5G	AV	2.48383G	2.50	-61.68	-59.18	-41.20	-17.98
BT-LE(2Mbps)	Pass	2.4835G	2.5G	AV	2.48353G	2.50	-60.63	-58.13	-41.20	-16.93

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	1G	2.31G	AV	2.24516G	2.50	-64.14	-61.64	-41.20	-20.44
2402MHz	Pass	2.31G	2.39G	AV	2.38924G	2.50	-63.32	-60.82	-41.20	-19.62
2402MHz	Pass	2.4835G	2.5G	AV	2.49955G	2.50	-63.47	-60.97	-41.20	-19.77
2402MHz	Pass	2.5G	3.1G	AV	2.8954G	2.50	-64.22	-61.72	-41.20	-20.52
2402MHz	Pass	1G	2.31G	PK	2.21306G	2.50	-46.66	-44.16	-21.20	-22.96
2402MHz	Pass	2.31G	2.39G	PK	2.3852G	2.50	-48.57	-46.07	-21.20	-24.87
2402MHz	Pass	2.4835G	2.5G	PK	2.49943G	2.50	-48.75	-46.25	-21.20	-25.05
2402MHz	Pass	2.5G	3.1G	PK	2.8408G	2.50	-48.11	-45.61	-21.20	-24.41
2440MHz	Pass	1G	2.31G	AV	2.28134G	2.50	-64.33	-61.83	-41.20	-20.63
2440MHz	Pass	2.31G	2.39G	AV	2.34404G	2.50	-63.35	-60.85	-41.20	-19.65
2440MHz	Pass	2.4835G	2.5G	AV	2.48824G	2.50	-63.30	-60.80	-41.20	-19.60
2440MHz	Pass	2.5G	3.1G	AV	2.89435G	2.50	-64.20	-61.70	-41.20	-20.50
2440MHz	Pass	1G	2.31G	PK	1.76439G	2.50	-47.67	-45.17	-21.20	-23.97
2440MHz	Pass	2.31G	2.39G	PK	2.3858G	2.50	-48.32	-45.82	-21.20	-24.62
2440MHz	Pass	2.4835G	2.5G	PK	2.48611G	2.50	-47.94	-45.44	-21.20	-24.24
2440MHz	Pass	2.5G	3.1G	PK	2.7628G	2.50	-47.76	-45.26	-21.20	-24.06
2480MHz	Pass	1G	2.31G	AV	2.31G	2.50	-64.26	-61.76	-41.20	-20.56
2480MHz	Pass	2.31G	2.39G	AV	2.38604G	2.50	-63.41	-60.91	-41.20	-19.71
2480MHz	Pass	2.4835G	2.5G	AV	2.48383G	2.50	-61.68	-59.18	-41.20	-17.98
2480MHz	Pass	2.5G	3.1G	AV	2.85205G	2.50	-64.04	-61.54	-41.20	-20.34
2480MHz	Pass	1G	2.31G	PK	1.61112G	2.50	-46.50	-44.00	-21.20	-22.80
2480MHz	Pass	2.31G	2.39G	PK	2.3102G	2.50	-48.52	-46.02	-21.20	-24.82
2480MHz	Pass	2.4835G	2.5G	PK	2.48424G	2.50	-47.99	-45.49	-21.20	-24.29
2480MHz	Pass	2.5G	3.1G	PK	2.8804G	2.50	-47.66	-45.16	-21.20	-23.96
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	1G	2.31G	AV	2.29936G	2.50	-64.16	-61.66	-41.20	-20.46
2402MHz	Pass	2.31G	2.39G	AV	2.39G	2.50	-63.35	-60.85	-41.20	-19.65
2402MHz	Pass	2.4835G	2.5G	AV	2.49826G	2.50	-63.44	-60.94	-41.20	-19.74
2402MHz	Pass	2.5G	3.1G	AV	2.8735G	2.50	-64.19	-61.69	-41.20	-20.49
2402MHz	Pass	1G	2.31G	PK	1.6085G	2.50	-47.71	-45.21	-21.20	-24.01
2402MHz	Pass	2.31G	2.39G	PK	2.37716G	2.50	-47.29	-44.79	-21.20	-23.59
2402MHz	Pass	2.4835G	2.5G	PK	2.48969G	2.50	-48.85	-46.35	-21.20	-25.15
2402MHz	Pass	2.5G	3.1G	PK	2.8504G	2.50	-47.90	-45.40	-21.20	-24.20
2440MHz	Pass	1G	2.31G	AV	2.25924G	2.50	-64.08	-61.58	-41.20	-20.38
2440MHz	Pass	2.31G	2.39G	AV	2.3696G	2.50	-63.53	-61.03	-41.20	-19.83
2440MHz	Pass	2.4835G	2.5G	AV	2.49876G	2.50	-63.26	-60.76	-41.20	-19.56
2440MHz	Pass	2.5G	3.1G	AV	2.89255G	2.50	-64.10	-61.60	-41.20	-20.40
2440MHz	Pass	1G	2.31G	PK	2.29756G	2.50	-47.66	-45.16	-21.20	-23.96
2440MHz	Pass	2.31G	2.39G	PK	2.32568G	2.50	-48.96	-46.46	-21.20	-25.26
2440MHz	Pass	2.4835G	2.5G	PK	2.49295G	2.50	-48.02	-45.52	-21.20	-24.32
2440MHz	Pass	2.5G	3.1G	PK	2.7136G	2.50	-47.77	-45.27	-21.20	-24.07



**Unwanted Conducted Emissions into Restricted
Frequency Bands - 1GHz~3.1GHz**

Appendix D.2

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2480MHz	Pass	1G	2.31G	AV	2.25171G	2.50	-64.34	-61.84	-41.20	-20.64
2480MHz	Pass	2.31G	2.39G	AV	2.384G	2.50	-63.29	-60.79	-41.20	-19.59
2480MHz	Pass	2.4835G	2.5G	AV	2.48353G	2.50	-60.63	-58.13	-41.20	-16.93
2480MHz	Pass	2.5G	3.1G	AV	2.88595G	2.50	-64.00	-61.50	-41.20	-20.30
2480MHz	Pass	1G	2.31G	PK	1.97202G	2.50	-47.27	-44.77	-21.20	-23.57
2480MHz	Pass	2.31G	2.39G	PK	2.3216G	2.50	-48.57	-46.07	-21.20	-24.87
2480MHz	Pass	2.4835G	2.5G	PK	2.48514G	2.50	-47.53	-45.03	-21.20	-23.83
2480MHz	Pass	2.5G	3.1G	PK	2.6632G	2.50	-48.14	-45.64	-21.20	-24.44

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX



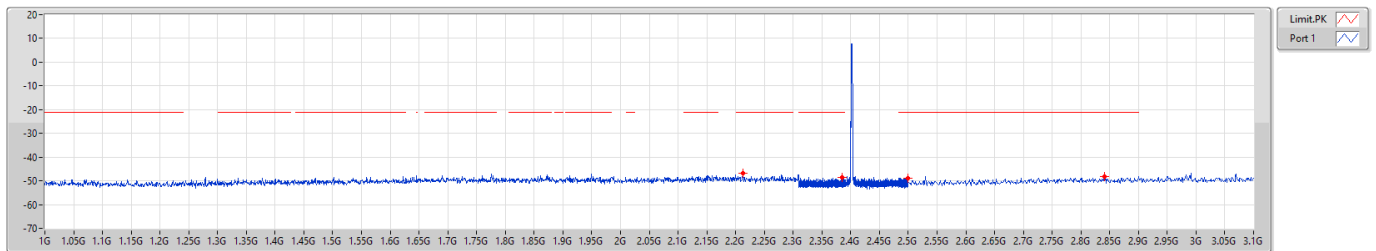
Unwanted Conducted Emissions into Restricted Frequency Bands - 1GHz~3.1GHz

Appendix D.2

2.4-2.4835GHz_BT-LE(1Mbps)

CSE Bandedge-DTS [PK]

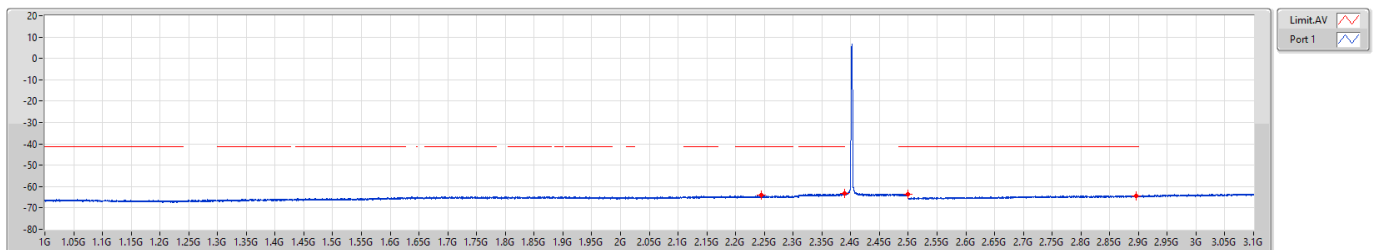
2402MHz



2.4-2.4835GHz_BT-LE(1Mbps)

CSE Bandedge-DTS [AV]

2402MHz

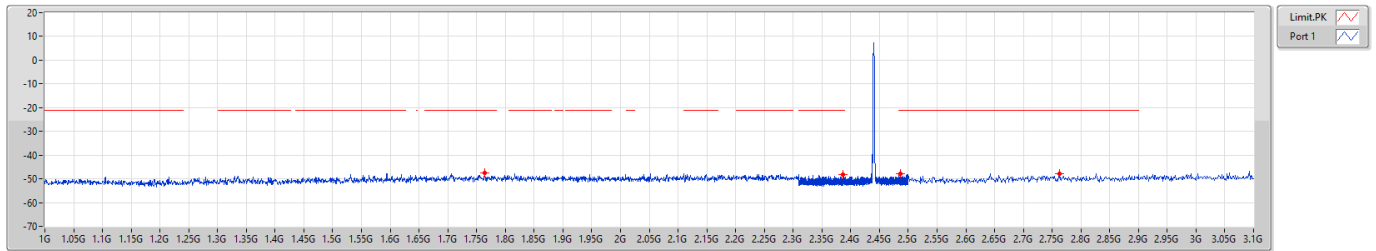




2.4-2.4835GHz_BT-LE(1Mbps)

CSE Bandedge-DTS [PK]

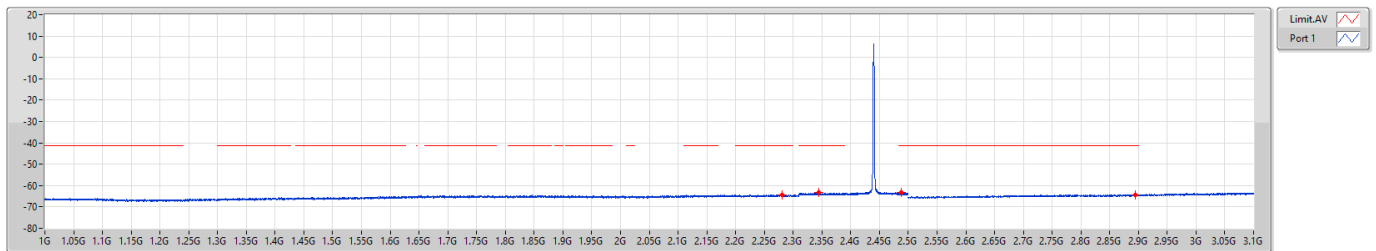
2440MHz



2.4-2.4835GHz_BT-LE(1Mbps)

CSE Bandedge-DTS [AV]

2440MHz





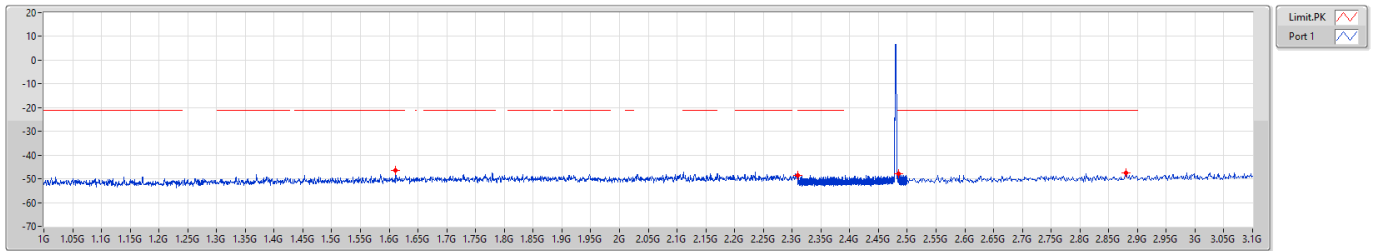
Unwanted Conducted Emissions into Restricted Frequency Bands - 1GHz~3.1GHz

Appendix D.2

2.4-2.4835GHz_BT-LE(1Mbps)

CSE Bandedge-DTS [PK]

2480MHz

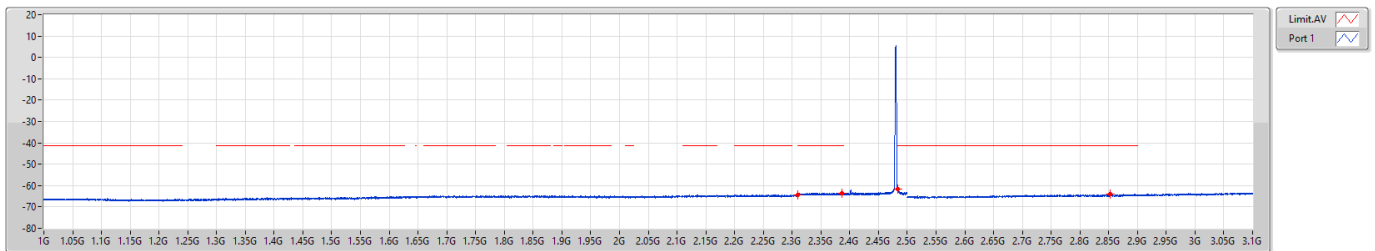


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
1G	2.31G	1M	PK	1.61112G	-46.50	-46.50
2.31G	2.39G	1M	PK	2.3102G	-48.52	-48.52
2.4835G	2.5G	1M	PK	2.48424G	-47.99	-47.99
2.5G	3.1G	1M	PK	2.8804G	-47.66	-47.66

2.4-2.4835GHz_BT-LE(1Mbps)

CSE Bandedge-DTS [AV]

2480MHz



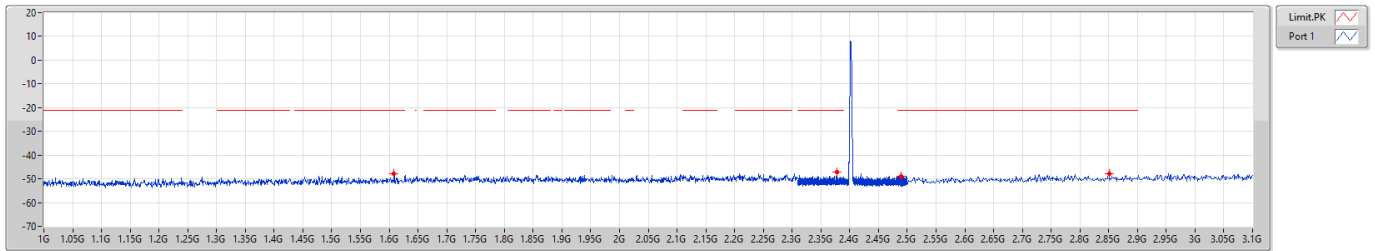
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
1G	2.31G	1M	AV	2.31G	-64.26	-64.26
2.31G	2.39G	1M	AV	2.3604G	-63.41	-63.41
2.4835G	2.5G	1M	AV	2.48383G	-61.68	-61.68
2.5G	3.1G	1M	AV	2.85205G	-64.04	-64.04



2.4-2.4835GHz_BT-LE(2Mbps)

CSE Bandedge-DTS [PK]

2402MHz

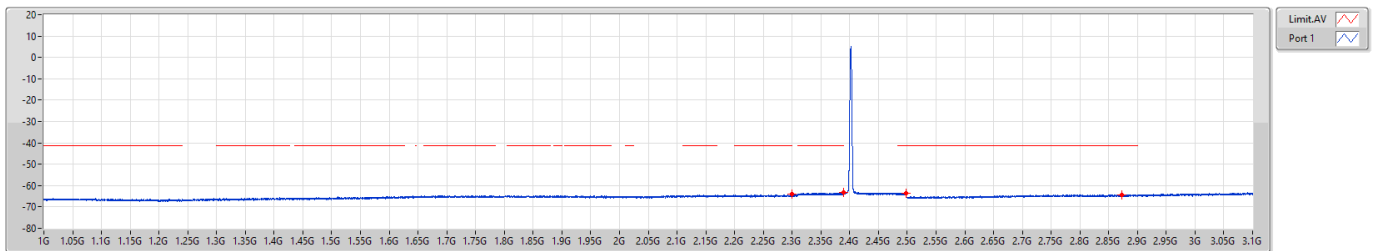


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
1G	2.31G	1M	PK	1.6085G	-47.71	-47.71
2.31G	2.39G	1M	PK	2.37716G	-47.29	-47.29
2.4835G	2.5G	1M	PK	2.48969G	-48.85	-48.85
2.5G	3.1G	1M	PK	2.8504G	-47.90	-47.90

2.4-2.4835GHz_BT-LE(2Mbps)

CSE Bandedge-DTS [AV]

2402MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
1G	2.31G	1M	AV	2.29936G	-64.16	-64.16
2.31G	2.39G	1M	AV	2.39G	-63.35	-63.35
2.4835G	2.5G	1M	AV	2.4826G	-63.44	-63.44
2.5G	3.1G	1M	AV	2.8735G	-64.19	-64.19



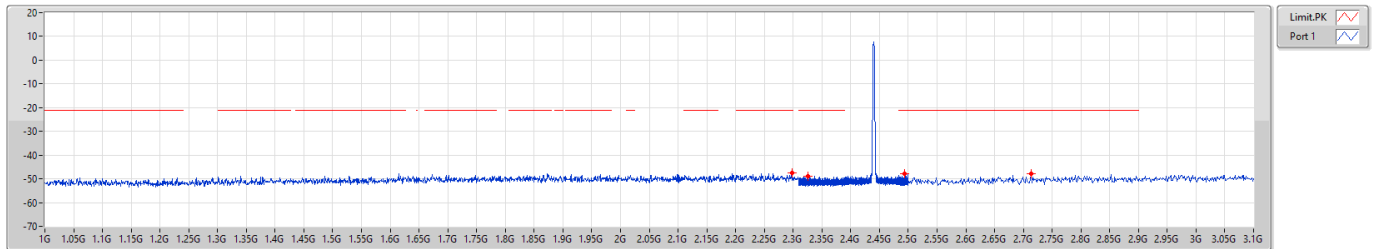
Unwanted Conducted Emissions into Restricted Frequency Bands - 1GHz~3.1GHz

Appendix D.2

2.4-2.4835GHz_BT-LE(2Mbps)

CSE Bandedge-DTS [PK]

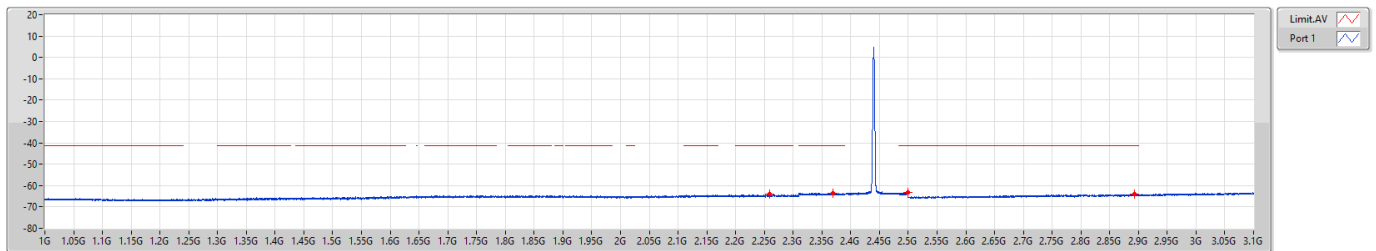
2440MHz



2.4-2.4835GHz_BT-LE(2Mbps)

CSE Bandedge-DTS [AV]

2440MHz

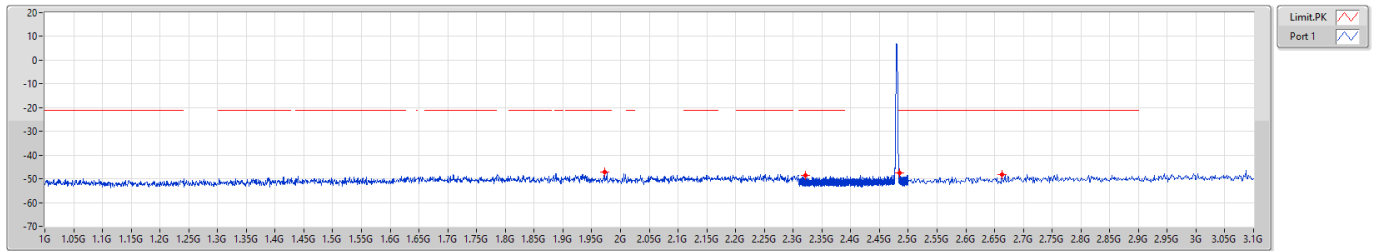




2.4-2.4835GHz_BT-LE(2Mbps)

CSE Bandedge-DTS [PK]

2480MHz

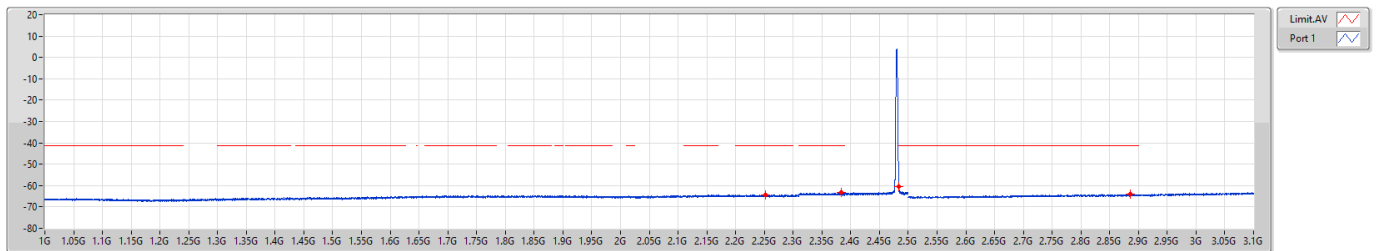


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
1G	2.31G	1M	PK	1.97202G	-47.27	-47.27
2.31G	2.39G	1M	PK	2.3216G	-48.57	-48.57
2.4835G	2.5G	1M	PK	2.48514G	-47.53	-47.53
2.5G	3.1G	1M	PK	2.6632G	-48.14	-48.14

2.4-2.4835GHz_BT-LE(2Mbps)

CSE Bandedge-DTS [AV]

2480MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
1G	2.31G	1M	AV	2.25171G	-64.34	-64.34
2.31G	2.39G	1M	AV	2.384G	-63.29	-63.29
2.4835G	2.5G	1M	AV	2.48353G	-60.63	-60.63
2.5G	3.1G	1M	AV	2.88595G	-64.00	-64.00



**Unwanted Conducted Emissions into Restricted
Frequency Bands - 3.1GHz~25GHz**

Appendix D.3

Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	8G	25G	AV	22.01916G	2.50	-62.80	-60.30	-41.20	-19.10
BT-LE(2Mbps)	Pass	8G	25G	AV	22.02394G	2.50	-63.01	-60.51	-41.20	-19.31

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	3.1G	4G	AV	3.99033G	2.50	-74.13	-71.63	-41.20	-30.43
2402MHz	Pass	4G	5G	AV	4.80425G	2.50	-73.67	-71.17	-41.20	-29.97
2402MHz	Pass	5G	7G	AV	5.4515G	2.50	-72.86	-70.36	-41.20	-29.16
2402MHz	Pass	7G	8G	AV	7.49675G	2.50	-72.32	-69.82	-41.20	-28.62
2402MHz	Pass	8G	25G	AV	22.05369G	2.50	-63.03	-60.53	-41.20	-19.33
2402MHz	Pass	3.1G	4G	PK	3.96603G	2.50	-62.68	-60.18	-21.20	-38.98
2402MHz	Pass	4G	5G	PK	4.5895G	2.50	-62.80	-60.30	-21.20	-39.10
2402MHz	Pass	4G	5G	PK	4.8045G	2.50	-64.50	-62.00	-21.20	-40.80
2402MHz	Pass	5G	7G	PK	5.448G	2.50	-62.50	-60.00	-21.20	-38.80
2402MHz	Pass	7G	8G	PK	7.62175G	2.50	-61.31	-58.81	-21.20	-37.61
2402MHz	Pass	8G	25G	PK	22.45531G	2.50	-54.40	-51.90	-21.20	-30.70
2440MHz	Pass	3.1G	4G	AV	3.946G	2.50	-74.11	-71.61	-41.20	-30.41
2440MHz	Pass	4G	5G	AV	4.88025G	2.50	-74.08	-71.58	-41.20	-30.38
2440MHz	Pass	5G	7G	AV	5.4205G	2.50	-72.79	-70.29	-41.20	-29.09
2440MHz	Pass	7G	8G	AV	7.4815G	2.50	-72.48	-69.98	-41.20	-28.78
2440MHz	Pass	8G	25G	AV	22.02181G	2.50	-62.90	-60.40	-41.20	-19.20
2440MHz	Pass	3.1G	4G	PK	3.93498G	2.50	-62.97	-60.47	-21.20	-39.27
2440MHz	Pass	4G	5G	PK	4.8795G	2.50	-64.68	-62.18	-21.20	-40.98
2440MHz	Pass	4G	5G	PK	4.90425G	2.50	-62.85	-60.35	-21.20	-39.15
2440MHz	Pass	5G	7G	PK	5.45G	2.50	-62.50	-60.00	-21.20	-38.80
2440MHz	Pass	7G	8G	PK	7.44525G	2.50	-61.03	-58.53	-21.20	-37.33
2440MHz	Pass	8G	25G	PK	22.12063G	2.50	-55.32	-52.82	-21.20	-31.62
2480MHz	Pass	3.1G	4G	AV	3.98695G	2.50	-74.10	-71.60	-41.20	-30.40
2480MHz	Pass	4G	5G	AV	4.13325G	2.50	-74.32	-71.82	-41.20	-30.62
2480MHz	Pass	4G	5G	AV	4.9595G	2.50	-74.67	-72.17	-41.20	-30.97
2480MHz	Pass	5G	7G	AV	5.439G	2.50	-72.88	-70.38	-41.20	-29.18
2480MHz	Pass	7G	8G	AV	7.47325G	2.50	-72.38	-69.88	-41.20	-28.68
2480MHz	Pass	8G	25G	AV	22.01916G	2.50	-62.80	-60.30	-41.20	-19.10
2480MHz	Pass	3.1G	4G	PK	3.97638G	2.50	-62.91	-60.41	-21.20	-39.21
2480MHz	Pass	4G	5G	PK	4.8575G	2.50	-62.46	-59.96	-21.20	-38.76
2480MHz	Pass	4G	5G	PK	4.959G	2.50	-65.23	-62.73	-21.20	-41.53
2480MHz	Pass	5G	7G	PK	5.45G	2.50	-62.81	-60.31	-21.20	-39.11
2480MHz	Pass	7G	8G	PK	7.43975G	2.50	-62.17	-59.67	-21.20	-38.47
2480MHz	Pass	8G	25G	PK	22.03616G	2.50	-55.15	-52.65	-21.20	-31.45
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	3.1G	4G	AV	3.99168G	2.50	-74.01	-71.51	-41.20	-30.31
2402MHz	Pass	4G	5G	AV	4.804G	2.50	-73.64	-71.14	-41.20	-29.94
2402MHz	Pass	5G	7G	AV	5.46G	2.50	-72.75	-70.25	-41.20	-29.05
2402MHz	Pass	7G	8G	AV	7.4975G	2.50	-72.25	-69.75	-41.20	-28.55
2402MHz	Pass	8G	25G	AV	22.02394G	2.50	-63.01	-60.51	-41.20	-19.31
2402MHz	Pass	3.1G	4G	PK	3.89673G	2.50	-62.97	-60.47	-21.20	-39.27

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2402MHz	Pass	4G	5G	PK	4.8035G	2.50	-64.09	-61.59	-21.20	-40.39
2402MHz	Pass	4G	5G	PK	4.989G	2.50	-62.96	-60.46	-21.20	-39.26
2402MHz	Pass	5G	7G	PK	5.441G	2.50	-62.29	-59.79	-21.20	-38.59
2402MHz	Pass	7G	8G	PK	7.437G	2.50	-60.82	-58.32	-21.20	-37.12
2402MHz	Pass	8G	25G	PK	22.05581G	2.50	-53.62	-51.12	-21.20	-29.92
2440MHz	Pass	3.1G	4G	AV	3.94443G	2.50	-74.22	-71.72	-41.20	-30.52
2440MHz	Pass	4G	5G	AV	4.88025G	2.50	-74.21	-71.71	-41.20	-30.51
2440MHz	Pass	5G	7G	AV	5.454G	2.50	-72.81	-70.31	-41.20	-29.11
2440MHz	Pass	7G	8G	AV	7.49525G	2.50	-72.44	-69.94	-41.20	-28.74
2440MHz	Pass	8G	25G	AV	22.08238G	2.50	-63.14	-60.64	-41.20	-19.44
2440MHz	Pass	3.1G	4G	PK	3.90505G	2.50	-62.86	-60.36	-21.20	-39.16
2440MHz	Pass	4G	5G	PK	4.86575G	2.50	-62.71	-60.21	-21.20	-39.01
2440MHz	Pass	4G	5G	PK	4.87975G	2.50	-65.30	-62.80	-21.20	-41.60
2440MHz	Pass	5G	7G	PK	5.4345G	2.50	-61.83	-59.33	-21.20	-38.13
2440MHz	Pass	7G	8G	PK	7.3885G	2.50	-61.15	-58.65	-21.20	-37.45
2440MHz	Pass	8G	25G	PK	22.059G	2.50	-54.94	-52.44	-21.20	-31.24
2480MHz	Pass	3.1G	4G	AV	3.99505G	2.50	-74.11	-71.61	-41.20	-30.41
2480MHz	Pass	4G	5G	AV	4.896G	2.50	-74.35	-71.85	-41.20	-30.65
2480MHz	Pass	4G	5G	AV	4.96G	2.50	-74.63	-72.13	-41.20	-30.93
2480MHz	Pass	5G	7G	AV	5.46G	2.50	-72.83	-70.33	-41.20	-29.13
2480MHz	Pass	7G	8G	AV	7.496G	2.50	-72.15	-69.65	-41.20	-28.45
2480MHz	Pass	8G	25G	AV	22.07759G	2.50	-63.34	-60.84	-41.20	-19.64
2480MHz	Pass	3.1G	4G	PK	3.91383G	2.50	-62.75	-60.25	-21.20	-39.05
2480MHz	Pass	4G	5G	PK	4.73G	2.50	-61.96	-59.46	-21.20	-38.26
2480MHz	Pass	4G	5G	PK	4.95825G	2.50	-65.20	-62.70	-21.20	-41.50
2480MHz	Pass	5G	7G	PK	5.4495G	2.50	-62.55	-60.05	-21.20	-38.85
2480MHz	Pass	7G	8G	PK	7.488G	2.50	-61.50	-59.00	-21.20	-37.80
2480MHz	Pass	8G	25G	PK	22.6795G	2.50	-55.76	-53.26	-21.20	-32.06

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX



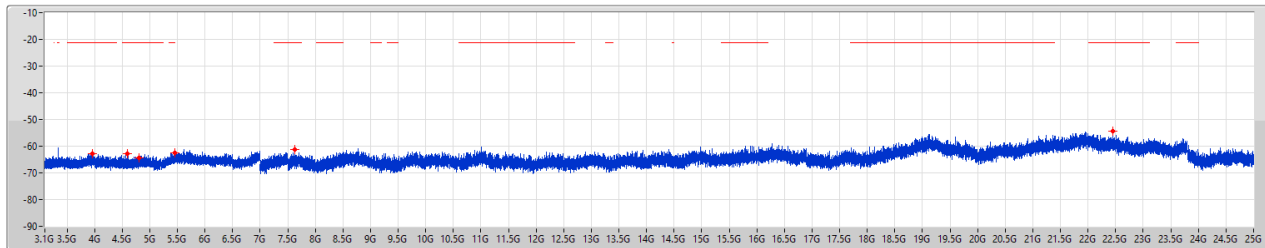
Unwanted Conducted Emissions into Restricted Frequency Bands - 3.1GHz~25GHz

Appendix D.3

2.4-2.4835GHz_BT-LE(1Mbps)

CSE-DTS [PK]

2402MHz

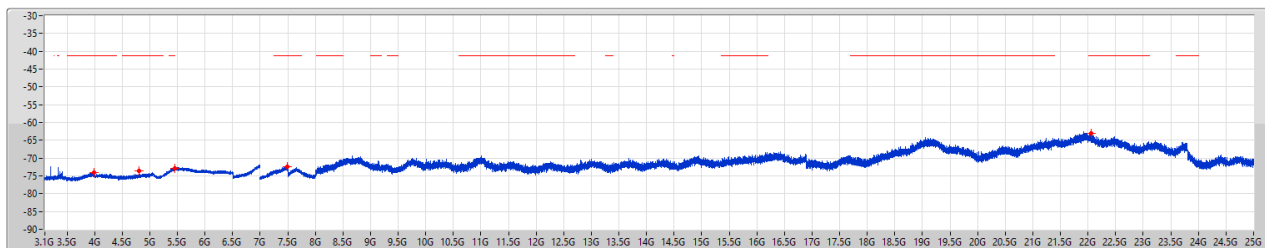


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	PK	3.96603G	-62.68	-62.68
4G	5G	1M	PK	4.5895G	-62.80	-62.80
4G	5G	1M	PK	4.8045G	-64.50	-64.50
5G	7G	1M	PK	5.448G	-62.50	-62.50
7G	8G	1M	PK	7.62175G	-61.31	-61.31
8G	25G	1M	PK	22.45531G	-54.40	-54.40

2.4-2.4835GHz_BT-LE(1Mbps)

CSE-DTS [AV]

2402MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	AV	3.99033G	-74.13	-74.13
4G	5G	1M	AV	4.80425G	-73.67	-73.67
5G	7G	1M	AV	5.4515G	-72.86	-72.86
7G	8G	1M	AV	7.49675G	-72.32	-72.32
8G	25G	1M	AV	22.05369G	-63.03	-63.03



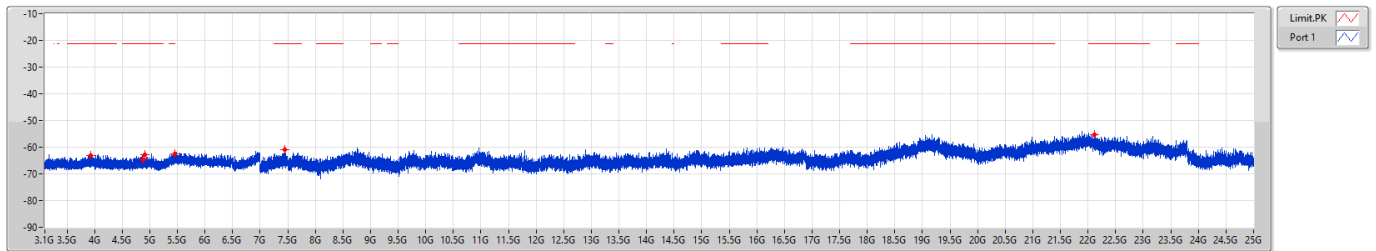
Unwanted Conducted Emissions into Restricted Frequency Bands - 3.1GHz~25GHz

Appendix D.3

2.4-2.4835GHz_BT-LE(1Mbps)

CSE-DTS [PK]

2440MHz

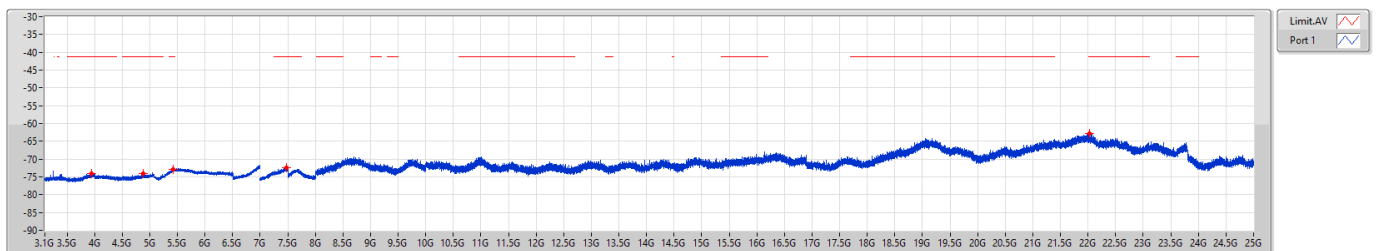


F.Start(Hz)	F.Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	PK	3.93498G	-62.97	-62.97
4G	5G	1M	PK	4.8795G	-64.68	-64.68
4G	5G	1M	PK	4.90425G	-62.85	-62.85
5G	7G	1M	PK	5.45G	-62.50	-62.50
7G	8G	1M	PK	7.44525G	-61.03	-61.03
8G	25G	1M	PK	22.12063G	-55.32	-55.32

2.4-2.4835GHz_BT-LE(1Mbps)

CSE-DTS [AV]

2440MHz



F.Start(Hz)	F.Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	AV	3.946G	-74.11	-74.11
4G	5G	1M	AV	4.88025G	-74.08	-74.08
5G	7G	1M	AV	5.4205G	-72.79	-72.79
7G	8G	1M	AV	7.4815G	-72.48	-72.48
8G	25G	1M	AV	22.02181G	-62.90	-62.90



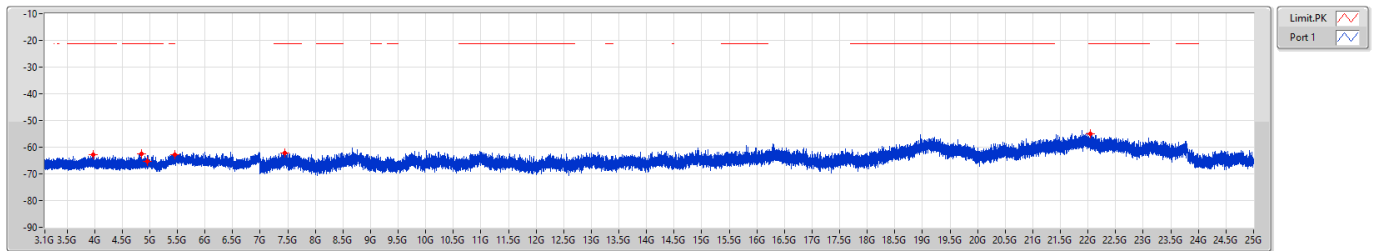
Unwanted Conducted Emissions into Restricted Frequency Bands - 3.1GHz~25GHz

Appendix D.3

2.4-2.4835GHz_BT-LE(1Mbps)

CSE-DTS [PK]

2480MHz

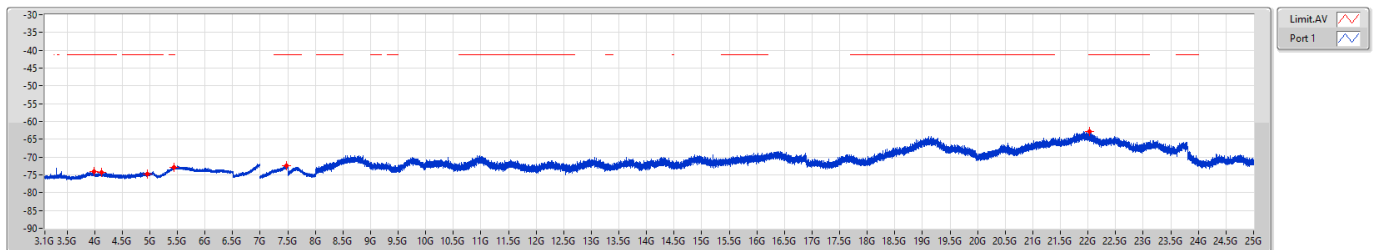


F.Start(Hz)	F.Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	PK	3.97638G	-62.91	-62.91
4G	5G	1M	PK	4.8575G	-62.46	-62.46
4G	5G	1M	PK	4.959G	-65.23	-65.23
5G	7G	1M	PK	5.45G	-62.81	-62.81
7G	8G	1M	PK	7.43975G	-62.17	-62.17
8G	25G	1M	PK	22.03616G	-55.15	-55.15

2.4-2.4835GHz_BT-LE(1Mbps)

CSE-DTS [AV]

2480MHz



F.Start(Hz)	F.Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	AV	3.98695G	-74.10	-74.10
4G	5G	1M	AV	4.13325G	-74.32	-74.32
4G	5G	1M	AV	4.9595G	-74.67	-74.67
5G	7G	1M	AV	5.439G	-72.88	-72.88
7G	8G	1M	AV	7.47325G	-72.38	-72.38
8G	25G	1M	AV	22.01916G	-62.80	-62.80



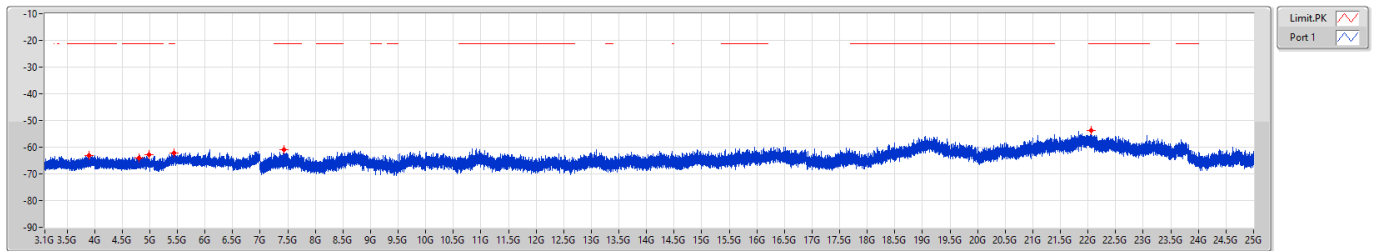
Unwanted Conducted Emissions into Restricted Frequency Bands - 3.1GHz~25GHz

Appendix D.3

2.4-2.4835GHz_BT-LE(2Mbps)

CSE-DTS [PK]

2402MHz

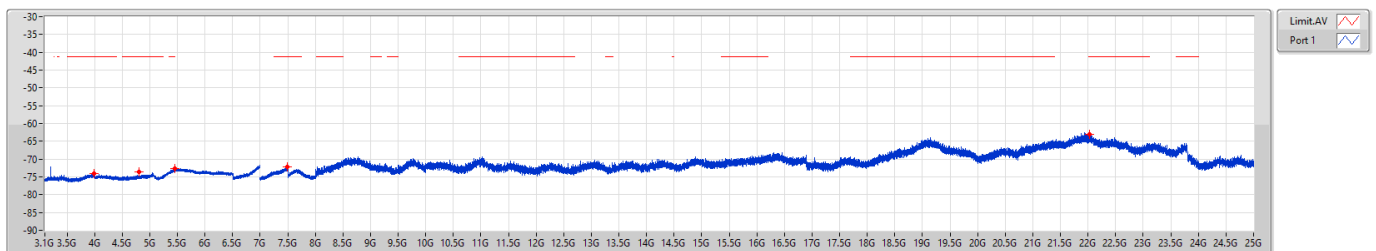


F.Start(Hz)	F.Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	PK	3.89673G	-62.97	-62.97
4G	5G	1M	PK	4.8035G	-64.09	-64.09
4G	5G	1M	PK	4.989G	-62.96	-62.96
5G	7G	1M	PK	5.441G	-62.29	-62.29
7G	8G	1M	PK	7.437G	-60.82	-60.82
8G	25G	1M	PK	22.05581G	-53.62	-53.62

2.4-2.4835GHz_BT-LE(2Mbps)

CSE-DTS [AV]

2402MHz



F.Start(Hz)	F.Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	AV	3.99168G	-74.01	-74.01
4G	5G	1M	AV	4.804G	-73.84	-73.84
5G	7G	1M	AV	5.46G	-72.75	-72.75
7G	8G	1M	AV	7.4975G	-72.25	-72.25
8G	25G	1M	AV	22.02394G	-63.01	-63.01



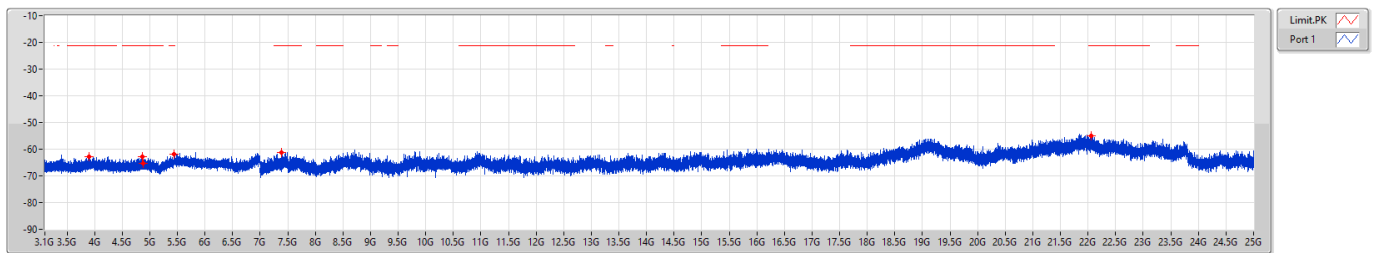
Unwanted Conducted Emissions into Restricted Frequency Bands - 3.1GHz~25GHz

Appendix D.3

2.4-2.4835GHz_BT-LE(2Mbps)

CSE-DTS [PK]

2440MHz

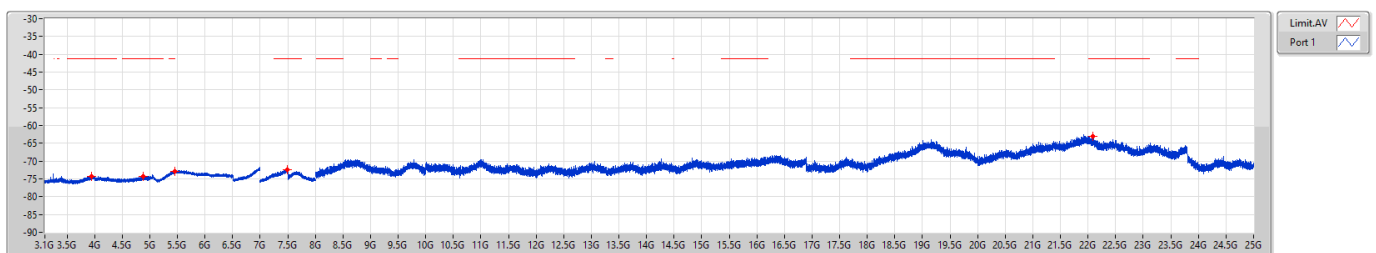


F.Start(Hz)	F.Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	PK	3.90505G	-62.86	-62.86
4G	5G	1M	PK	4.86575G	-62.71	-62.71
4G	5G	1M	PK	4.87975G	-65.30	-65.30
5G	7G	1M	PK	5.4345G	-61.83	-61.83
7G	8G	1M	PK	7.3885G	-61.15	-61.15
8G	25G	1M	PK	22.059G	-54.94	-54.94

2.4-2.4835GHz_BT-LE(2Mbps)

CSE-DTS [AV]

2440MHz



F.Start(Hz)	F.Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	AV	3.94443G	-74.22	-74.22
4G	5G	1M	AV	4.80025G	-74.21	-74.21
5G	7G	1M	AV	5.454G	-72.81	-72.81
7G	8G	1M	AV	7.49525G	-72.44	-72.44
8G	25G	1M	AV	22.08238G	-63.14	-63.14



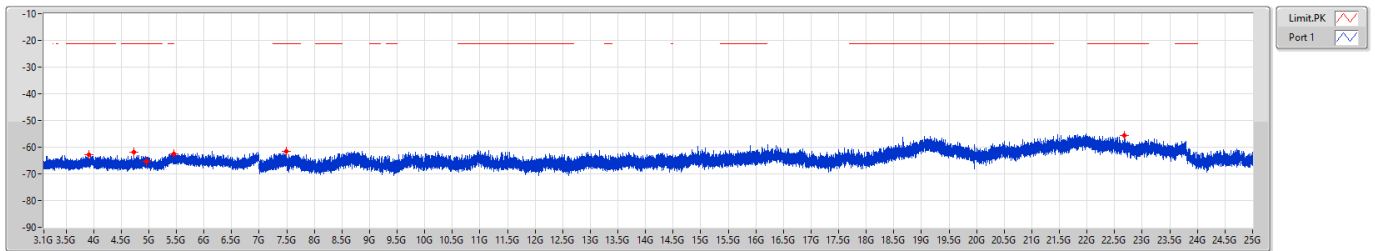
Unwanted Conducted Emissions into Restricted Frequency Bands - 3.1GHz~25GHz

Appendix D.3

2.4-2.4835GHz_BT-LE(2Mbps)

CSE-DTS [PK]

2480MHz

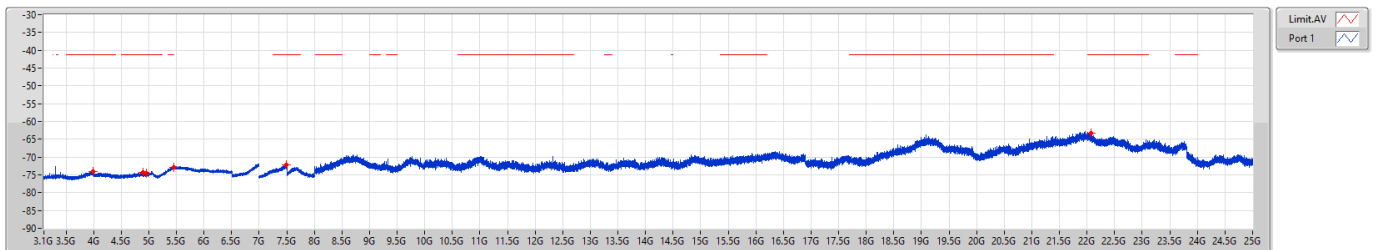


F.Start(Hz)	F.Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	PK	3.91383G	-62.75	-62.75
4G	5G	1M	PK	4.73G	-61.96	-61.96
4G	5G	1M	PK	4.95825G	-65.20	-65.20
5G	7G	1M	PK	5.4495G	-62.55	-62.55
7G	8G	1M	PK	7.488G	-61.50	-61.50
8G	25G	1M	PK	22.6795G	-55.76	-55.76

2.4-2.4835GHz_BT-LE(2Mbps)

CSE-DTS [AV]

2480MHz



F.Start(Hz)	F.Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	AV	3.99505G	-74.11	-74.11
4G	5G	1M	AV	4.896G	-74.35	-74.35
4G	5G	1M	AV	4.96G	-74.63	-74.63
5G	7G	1M	AV	5.46G	-72.83	-72.83
7G	8G	1M	AV	7.496G	-72.15	-72.15
8G	25G	1M	AV	22.07759G	-63.34	-63.34



Unwanted Emissions (Below 1GHz)

Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2402																																																																						
Polarization	Horizontal																																																																								
Test By :Akun Chung- Temperature(°C):22 Humidity(%):62																																																																									
Level (dBuV/m) Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>63.95</td><td>28.87</td><td>40.00</td><td>-11.13</td><td>38.60</td><td>-9.73</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>167.74</td><td>30.63</td><td>43.50</td><td>-12.87</td><td>39.74</td><td>-9.11</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>266.68</td><td>31.98</td><td>46.00</td><td>-14.02</td><td>41.19</td><td>-9.21</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>303.54</td><td>27.91</td><td>46.00</td><td>-18.09</td><td>35.73</td><td>-7.82</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>383.08</td><td>27.46</td><td>46.00</td><td>-18.54</td><td>33.06</td><td>-5.60</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>454.86</td><td>30.34</td><td>46.00</td><td>-15.66</td><td>34.07</td><td>-3.73</td><td>Peak</td><td>---</td><td>---</td></tr></table>					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	63.95	28.87	40.00	-11.13	38.60	-9.73	Peak	---	---	2	167.74	30.63	43.50	-12.87	39.74	-9.11	Peak	---	---	3	266.68	31.98	46.00	-14.02	41.19	-9.21	Peak	---	---	4	303.54	27.91	46.00	-18.09	35.73	-7.82	Peak	---	---	5	383.08	27.46	46.00	-18.54	33.06	-5.60	Peak	---	---	6	454.86	30.34	46.00	-15.66	34.07	-3.73	Peak	---	---
	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	63.95	28.87	40.00	-11.13	38.60	-9.73	Peak	---	---																																																																
2	167.74	30.63	43.50	-12.87	39.74	-9.11	Peak	---	---																																																																
3	266.68	31.98	46.00	-14.02	41.19	-9.21	Peak	---	---																																																																
4	303.54	27.91	46.00	-18.09	35.73	-7.82	Peak	---	---																																																																
5	383.08	27.46	46.00	-18.54	33.06	-5.60	Peak	---	---																																																																
6	454.86	30.34	46.00	-15.66	34.07	-3.73	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.																																																																									



Unwanted Radiated Emissions into Restricted Frequency Bands

Appendix D.4

Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2402																																																																						
Polarization	Vertical																																																																								
Test By :Akun Chung- Temperature(°C):22 Humidity(%):62																																																																									
Level (dBUV/m) CLASS-B <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>67.83</td><td>30.57</td><td>40.00</td><td>-9.43</td><td>40.99</td><td>-10.42</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>121.18</td><td>25.57</td><td>43.50</td><td>-17.93</td><td>36.60</td><td>-11.03</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>227.88</td><td>26.42</td><td>46.00</td><td>-19.58</td><td>38.17</td><td>-11.75</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>284.14</td><td>30.80</td><td>46.00</td><td>-15.20</td><td>39.16</td><td>-8.36</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>429.64</td><td>27.94</td><td>46.00</td><td>-18.06</td><td>32.39</td><td>-4.45</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>454.86</td><td>31.93</td><td>46.00</td><td>-14.07</td><td>35.66</td><td>-3.73</td><td>Peak</td><td>---</td><td>---</td></tr></table>					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	67.83	30.57	40.00	-9.43	40.99	-10.42	Peak	---	---	2	121.18	25.57	43.50	-17.93	36.60	-11.03	Peak	---	---	3	227.88	26.42	46.00	-19.58	38.17	-11.75	Peak	---	---	4	284.14	30.80	46.00	-15.20	39.16	-8.36	Peak	---	---	5	429.64	27.94	46.00	-18.06	32.39	-4.45	Peak	---	---	6	454.86	31.93	46.00	-14.07	35.66	-3.73	Peak	---	---
	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	67.83	30.57	40.00	-9.43	40.99	-10.42	Peak	---	---																																																																
2	121.18	25.57	43.50	-17.93	36.60	-11.03	Peak	---	---																																																																
3	227.88	26.42	46.00	-19.58	38.17	-11.75	Peak	---	---																																																																
4	284.14	30.80	46.00	-15.20	39.16	-8.36	Peak	---	---																																																																
5	429.64	27.94	46.00	-18.06	32.39	-4.45	Peak	---	---																																																																
6	454.86	31.93	46.00	-14.07	35.66	-3.73	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.																																																																									



Unwanted Emissions (Above 1GHz)

Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2402
Polarization	Horizontal		
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64			
Level (dBUV/m) </			



Unwanted Radiated Emissions into Restricted Frequency Bands

Appendix D.4

Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2402
Polarization	Vertical		
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) <			



Unwanted Radiated Emissions into Restricted Frequency Bands

Appendix D.4

Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2440
Polarization	Horizontal		
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			



Unwanted Radiated Emissions into Restricted Frequency Bands

Appendix D.4

Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2440																																																			
Polarization	Vertical																																																					
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64																																																						
	<table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>4880.00</td><td>27.73</td><td>54.00</td><td>-26.27</td><td>26.69</td><td>1.04</td><td>Average</td><td>123</td><td>76</td></tr><tr><td>2</td><td>4880.00</td><td>40.84</td><td>74.00</td><td>-33.16</td><td>39.80</td><td>1.04</td><td>Peak</td><td>123</td><td>76</td></tr><tr><td>3</td><td>7320.00</td><td>33.28</td><td>54.00</td><td>-20.72</td><td>26.44</td><td>6.84</td><td>Average</td><td>309</td><td>289</td></tr><tr><td>4</td><td>7320.00</td><td>46.31</td><td>74.00</td><td>-27.69</td><td>39.47</td><td>6.84</td><td>Peak</td><td>309</td><td>289</td></tr></table>		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	4880.00	27.73	54.00	-26.27	26.69	1.04	Average	123	76	2	4880.00	40.84	74.00	-33.16	39.80	1.04	Peak	123	76	3	7320.00	33.28	54.00	-20.72	26.44	6.84	Average	309	289	4	7320.00	46.31	74.00	-27.69	39.47	6.84	Peak	309	289			
	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	4880.00	27.73	54.00	-26.27	26.69	1.04	Average	123	76																																													
2	4880.00	40.84	74.00	-33.16	39.80	1.04	Peak	123	76																																													
3	7320.00	33.28	54.00	-20.72	26.44	6.84	Average	309	289																																													
4	7320.00	46.31	74.00	-27.69	39.47	6.84	Peak	309	289																																													
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).																																																						



Unwanted Radiated Emissions into Restricted Frequency Bands

Appendix D.4

Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2480
Polarization	Horizontal		
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) </			



Unwanted Radiated Emissions into Restricted Frequency Bands

Appendix D.4

Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2480
Polarization	Vertical		
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64			
Level (dBUV/m) <			



Unwanted Radiated Emissions into Restricted Frequency Bands

Appendix D.4

Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2402
Polarization	Horizontal-Peak Value		
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) <			



Unwanted Radiated Emissions into Restricted Frequency Bands

Appendix D.4

Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2402
Polarization	Horizontal-Average Value		
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) </			



Unwanted Radiated Emissions into Restricted Frequency Bands

Appendix D.4

Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2402
Polarization	Vertical-Peak Value		
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) <			



Unwanted Radiated Emissions into Restricted Frequency Bands

Appendix D.4

Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2402																														
Polarization	Vertical -Average Value																																
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64																																	
Level (dBuV/m) Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>4804.00</td><td>32.26</td><td>54.00</td><td>-21.74</td><td>31.24</td><td>1.02</td><td>Average</td><td>100</td><td>122</td></tr><tr><td>2</td><td>12010.00</td><td>39.05</td><td>54.00</td><td>-14.95</td><td>30.43</td><td>8.62</td><td>Average</td><td>178</td><td>275</td></tr></tbody></table>					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	4804.00	32.26	54.00	-21.74	31.24	1.02	Average	100	122	2	12010.00	39.05	54.00	-14.95	30.43	8.62	Average	178	275
	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	4804.00	32.26	54.00	-21.74	31.24	1.02	Average	100	122																								
2	12010.00	39.05	54.00	-14.95	30.43	8.62	Average	178	275																								
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).																																	



Unwanted Radiated Emissions into Restricted Frequency Bands

Appendix D.4

Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2440
Polarization	Horizontal		
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64			
Level (dBUV/m)			



Unwanted Radiated Emissions into Restricted Frequency Bands

Appendix D.4

Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2440
Polarization	Vertical		
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64			
Level (dBUV/m)			



Unwanted Radiated Emissions into Restricted Frequency Bands

Appendix D.4

Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2480
Polarization	Horizontal		
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			



Unwanted Radiated Emissions into Restricted Frequency Bands

Appendix D.4

Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2480
Polarization	Vertical		
Test By :Akun Chung- Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			

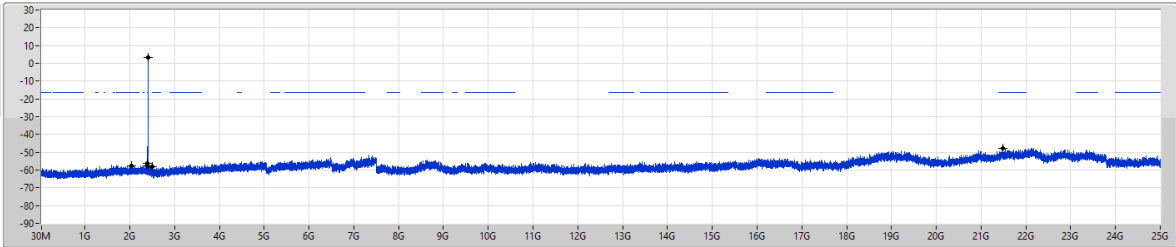


2.4-2.4835GHz_BT-LE(125kbps)

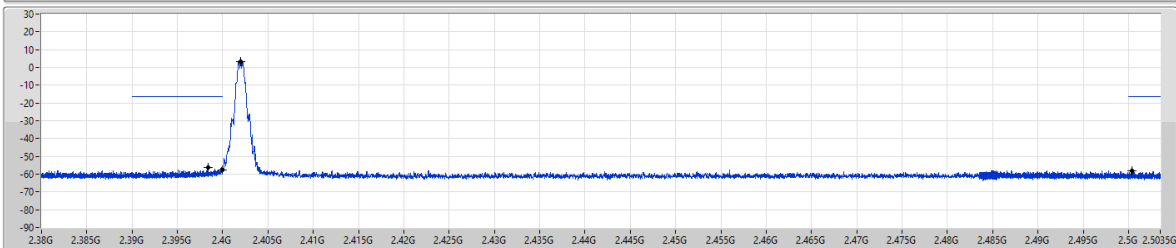
CSEndB-DTS

2402MHz

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak



Port 1



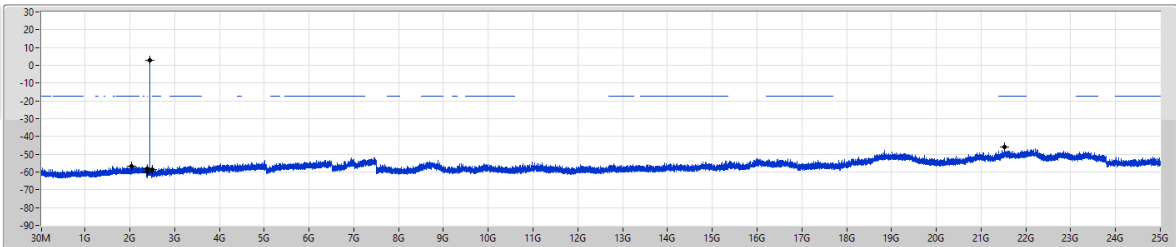
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40199G	3.36	-16.64	2.04307G	-57.54	2.3984G	-56.17	2.4G	-57.48	2.5004G	-58.34	21.49266G	-47.91	1

2.4-2.4835GHz_BT-LE(125kbps)

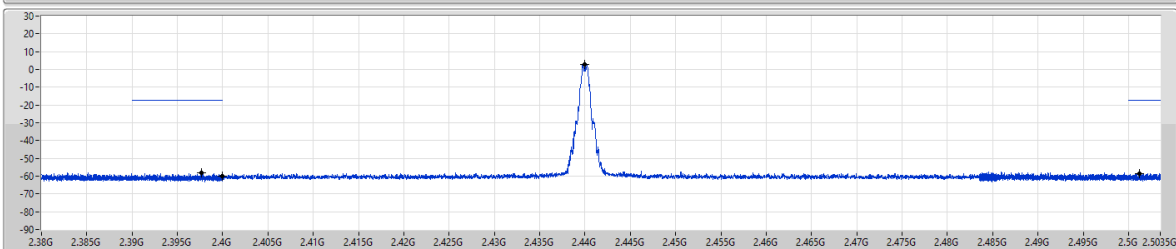
CSEndB-DTS

2440MHz

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak



Port 1

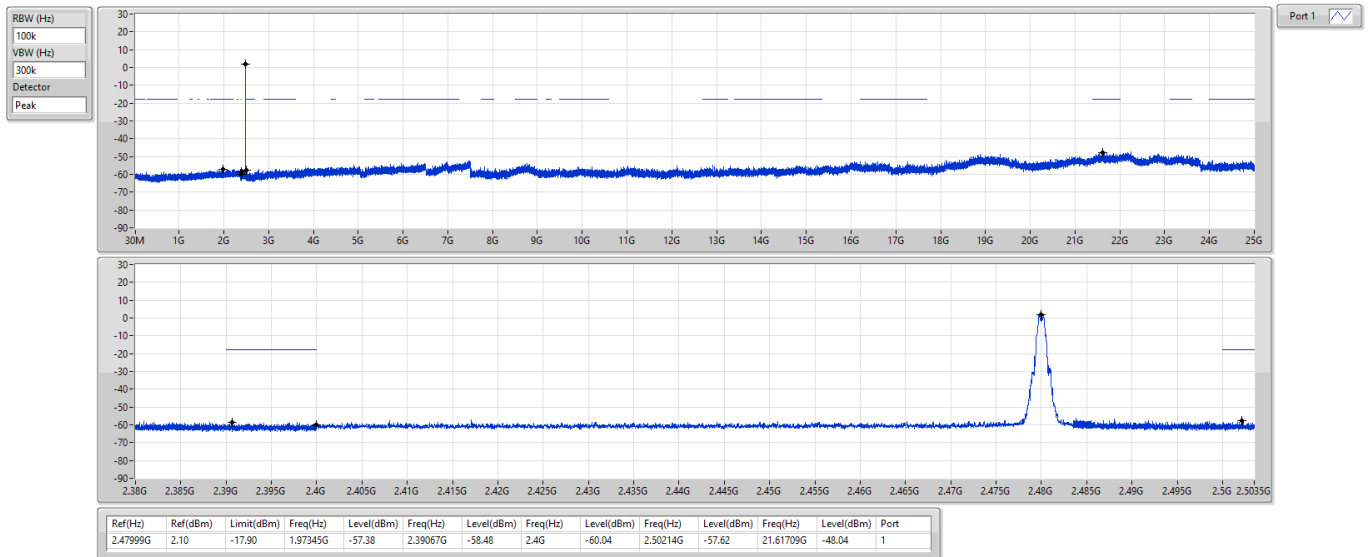


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43999G	2.85	-17.15	2.04219G	-56.72	2.39763G	-58.35	2.4G	-60.21	2.50123G	-58.37	21.51656G	-45.83	1

2.4-2.4835GHz_BT-LE(125kbps)

CSEndB-DTS

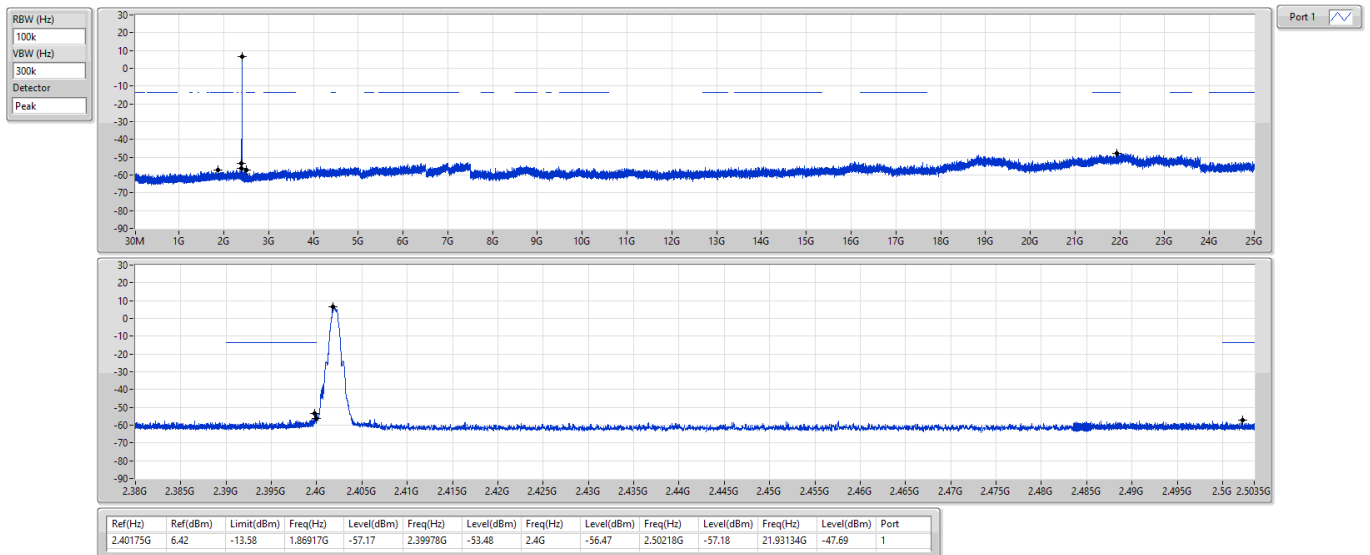
2480MHz



2.4-2.4835GHz_BT-LE(500kbps)

CSEndB-DTS

2402MHz

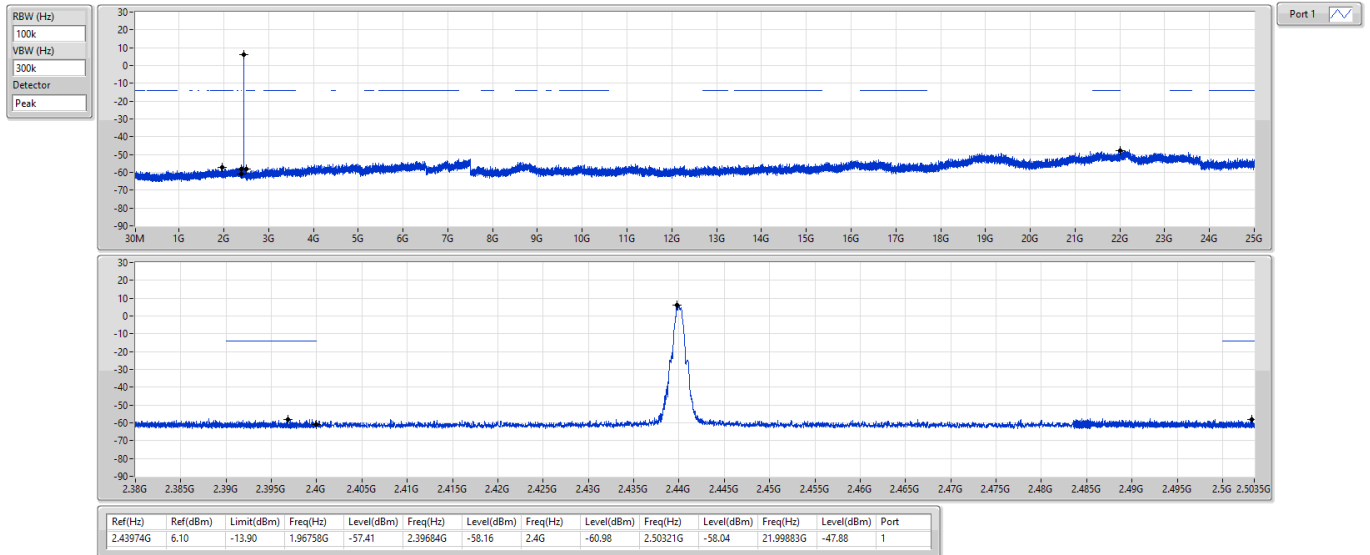




2.4-2.4835GHz_BT-LE(500kbps)

CSEndB-DTS

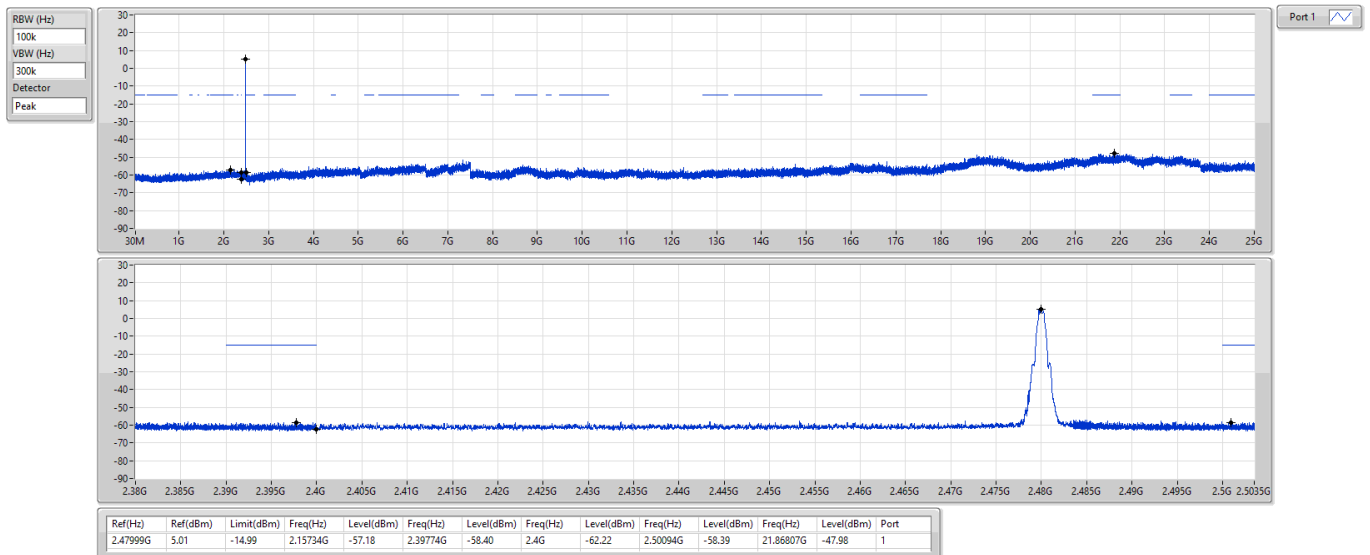
2440MHz



2.4-2.4835GHz_BT-LE(500kbps)

CSEndB-DTS

2480MHz

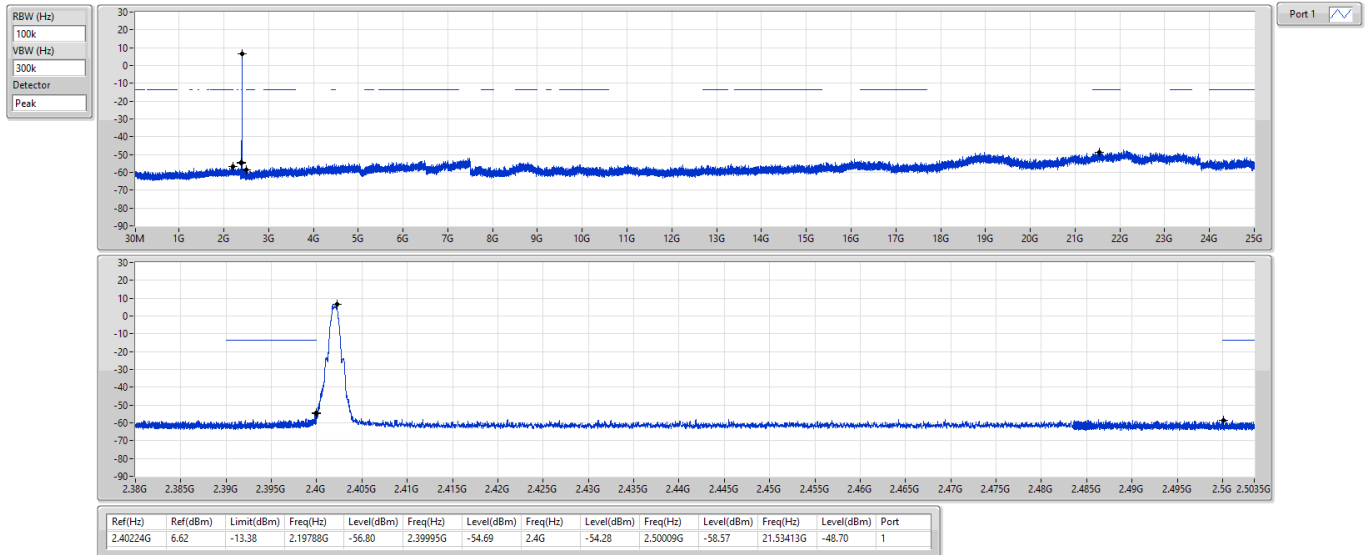




2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

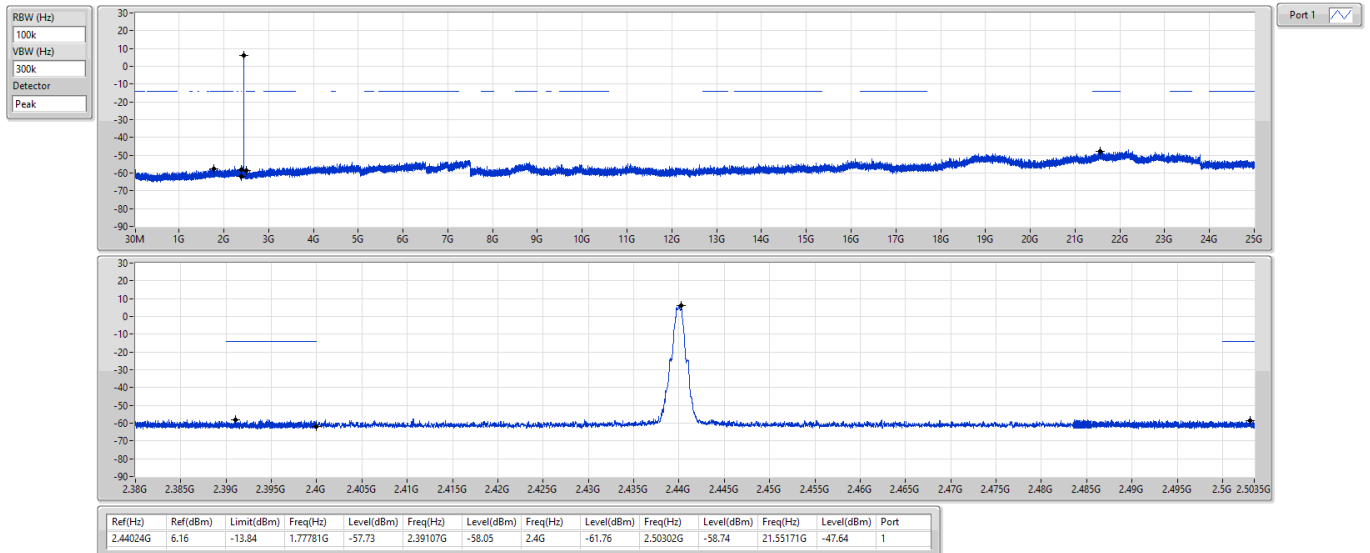
2402MHz



2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

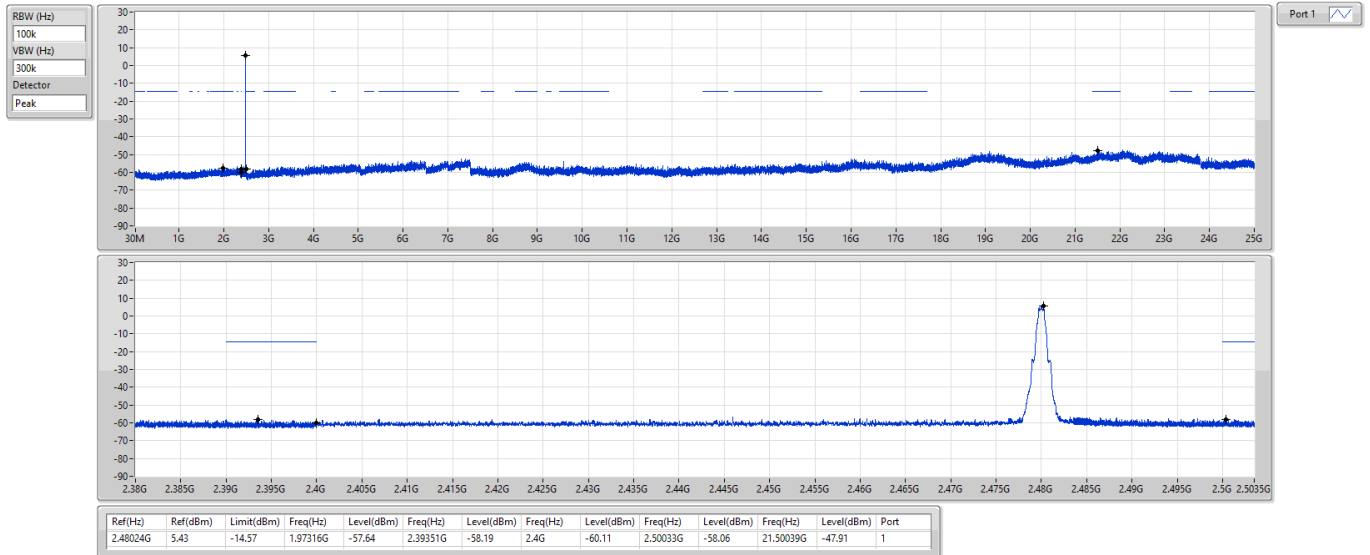
2440MHz



2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

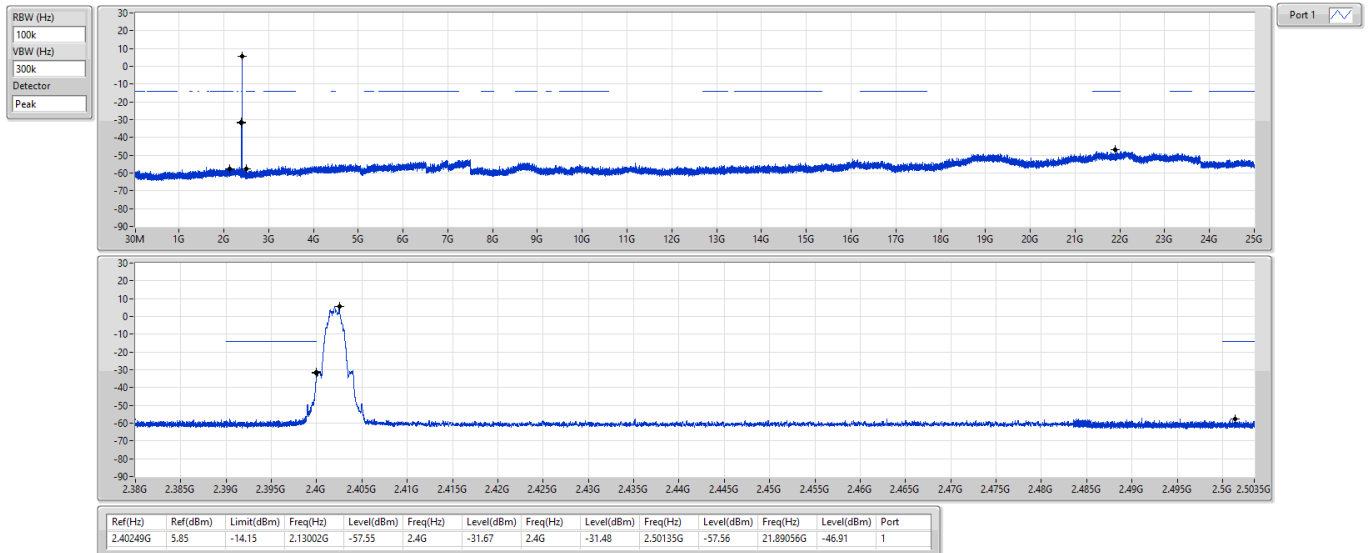
2480MHz



2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2402MHz

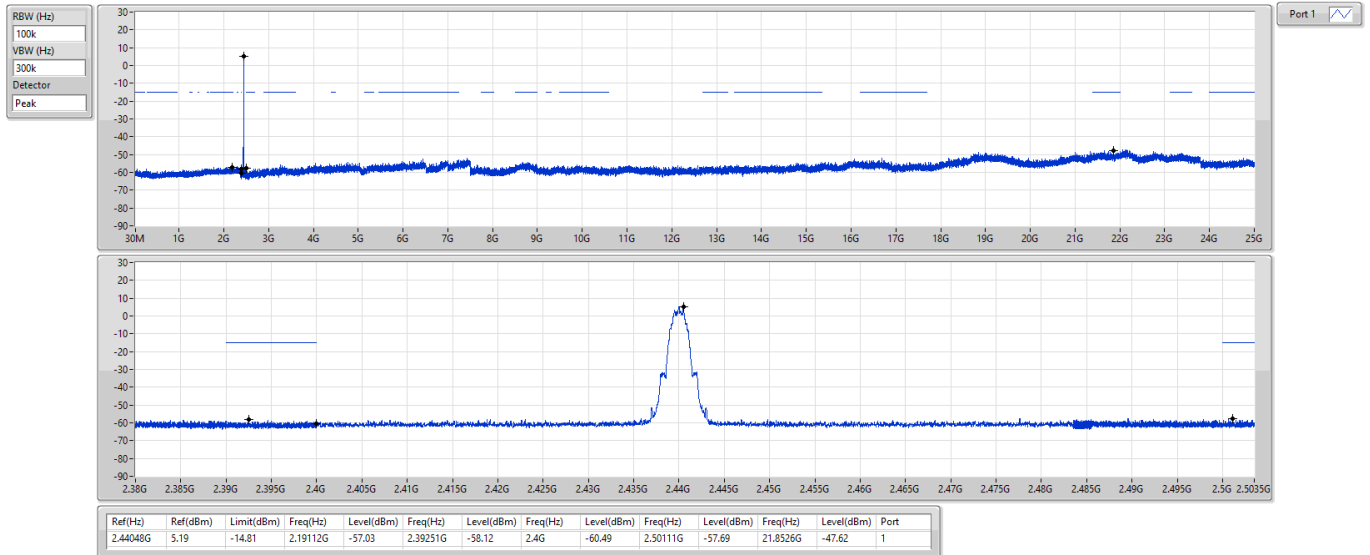




2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

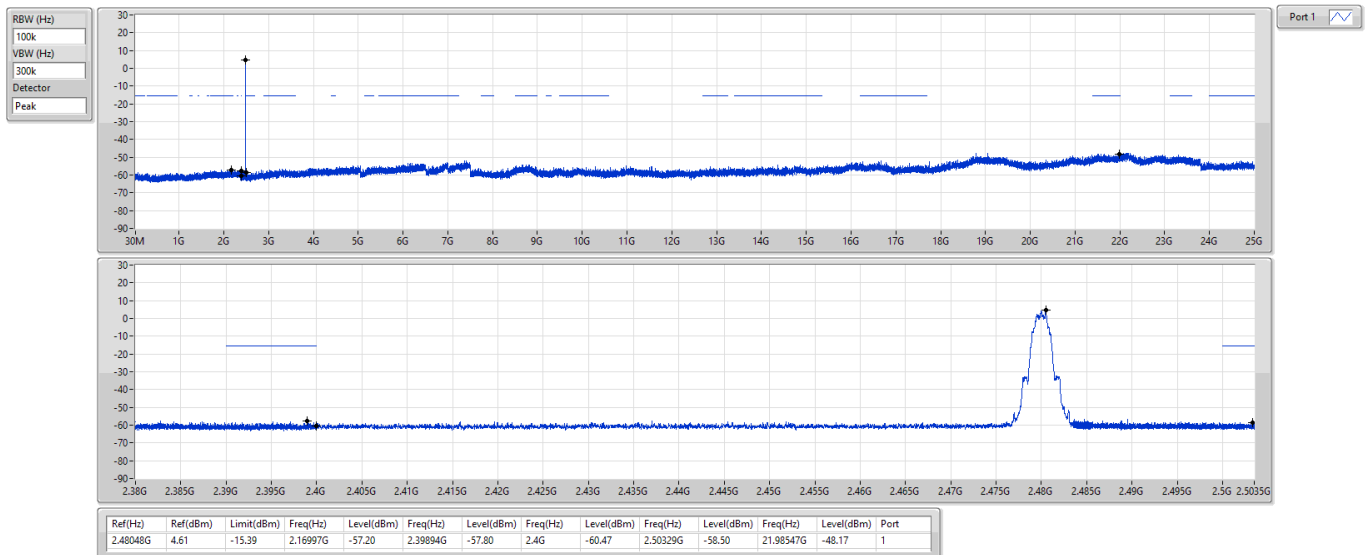
2440MHz



2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2480MHz



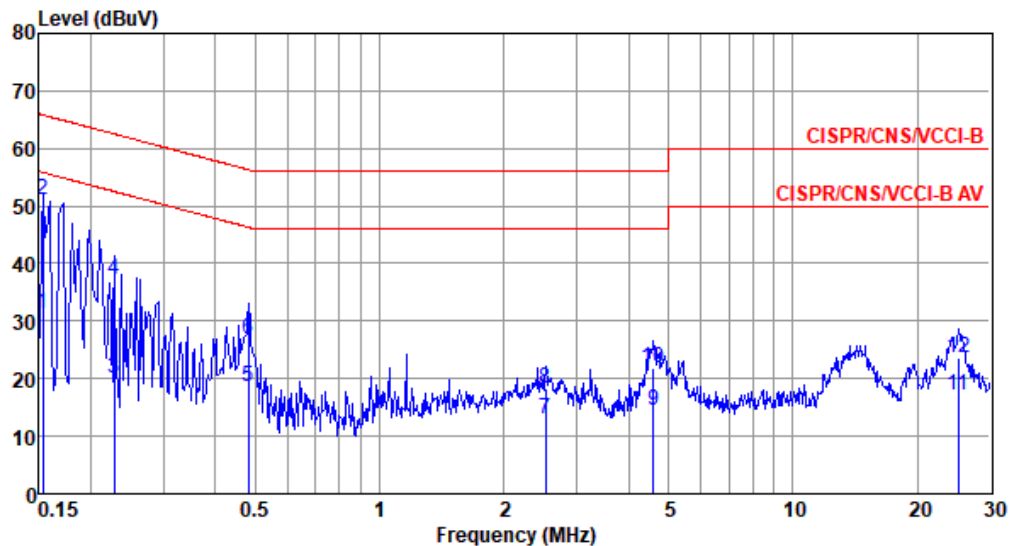


Modulation	BT-LE(2Mbps)	Test Freq. (MHz)	2402
Power Phase	Line		

Test by : Joe Liao

Temperature: 21°C

Humidity: 63%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.153	31.27	55.82	-24.55	21.59	9.65	0.03	0.00	Average
2*	0.153	50.96	65.82	-14.86	41.28	9.65	0.03	0.00	QP
3	0.228	20.00	52.52	-32.52	10.32	9.64	0.04	0.00	Average
4	0.228	37.18	62.52	-25.34	27.50	9.64	0.04	0.00	QP
5	0.481	18.68	46.32	-27.64	9.00	9.64	0.04	0.00	Average
6	0.481	27.01	56.32	-29.31	17.33	9.64	0.04	0.00	QP
7	2.527	13.00	46.00	-33.00	3.23	9.66	0.11	0.00	Average
8	2.527	18.20	56.00	-37.80	8.43	9.66	0.11	0.00	QP
9	4.598	14.43	46.00	-31.57	4.59	9.68	0.16	0.00	Average
10	4.598	21.88	56.00	-34.12	12.04	9.68	0.16	0.00	QP
11	25.188	17.18	50.00	-32.82	7.22	9.66	0.30	0.00	Average
12	25.188	23.57	60.00	-36.43	13.61	9.66	0.30	0.00	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).

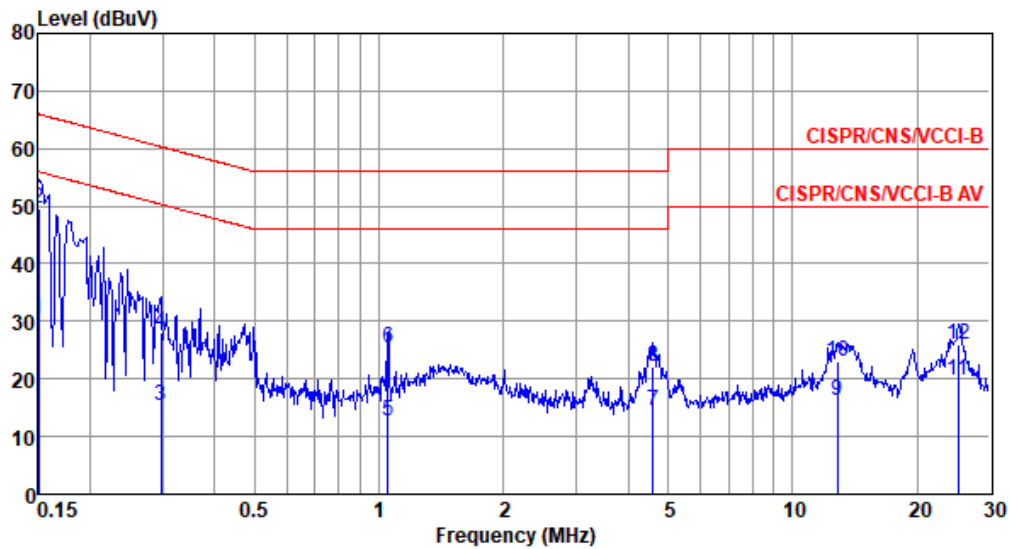


Modulation	BT-LE(2Mbps)	Test Freq. (MHz)	2402
Power Phase	Neutral		

Test by : Joe Liao

Temperature: 21°C

Humidity: 63%



	Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark
	MHz	dBuV	Line	Limit	Level		loss		
			dBuV	dB	dBuV	dB	dB	dB	
1	0.150	30.33	56.00	-25.67	20.66	9.64	0.03	0.00	Average
2*	0.150	49.52	66.00	-16.48	39.85	9.64	0.03	0.00	QP
3	0.297	15.44	50.32	-34.88	5.77	9.63	0.04	0.00	Average
4	0.297	28.11	60.32	-32.21	18.44	9.63	0.04	0.00	QP
5	1.053	12.76	46.00	-33.24	3.06	9.64	0.06	0.00	Average
6	1.053	25.29	56.00	-30.71	15.59	9.64	0.06	0.00	QP
7	4.598	14.53	46.00	-31.47	4.70	9.67	0.16	0.00	Average
8	4.598	22.13	56.00	-33.87	12.30	9.67	0.16	0.00	QP
9	12.852	16.12	50.00	-33.88	6.13	9.74	0.25	0.00	Average
10	12.852	22.91	60.00	-37.09	12.92	9.74	0.25	0.00	QP
11	25.188	19.73	50.00	-30.27	9.64	9.79	0.30	0.00	Average
12	25.188	25.91	60.00	-34.09	15.82	9.79	0.30	0.00	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).