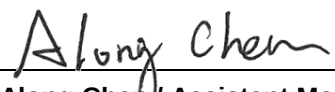


FCC Test Report

FCC ID : SQGBL5340PA
Equipment : Bluetooth 5.2 BLE + 802.15.4 + NFC Module
Model No. : BL5340PA Series
Brand Name : Laird Connectivity
Applicant : Laird Connectivity LLC
Address : W66N220 Commerce Court, Cedarburg, WI
53012 United States Of America
Standard : 47 CFR FCC Part 15.247
Received Date : Oct. 04, 2021
Tested Date : Nov. 14, 2022 ~ Jan. 30, 2023

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:


Along Chen / Assistant Manager

Approved by:

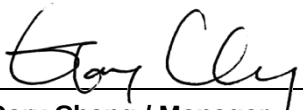

Gary Chang / Manager

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Appendix C. Power Spectral Density		
Appendix D. Unwanted Emissions into Restricted Frequency Bands		
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Release Record

Report No.	Version	Description	Issued Date
FR1O0405AE	Rev. 01	Initial issue	Mar. 24, 2023

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 2.384MHz 28.19 (Margin -17.81dB) - AV	Pass
15.247(d) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 4804.00MHz 45.57 (Margin -8.43dB) - AV	Pass
15.247(b)(3)	Conducted Output Power	Power [dBm]: 19.23 Margin -10.77 dB	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit Margin – 0.137681 MHz	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit Margin – 0.53 dB	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information				
Frequency Range (MHz)	Bluetooth Mode	Ch. Freq. (MHz)	Channel Number	Data Rate
2400-2483.5	LE	2402-2480	40	125 kbps
				500 kbps
				1 Mbps
		2404-2478	37	2 Mbps
Note: Bluetooth LE (Low energy) uses GFSK modulation.				

1.1.2 Antenna Details

Ant. No.	Brand	Model	Type	Connector	2400-2500MHz	2400-2480MHz	Remarks
					Gain (dBi)		
1	Laird	NanoBlue	PCB Dipole	IPEX MHF4	2	---	External
2	Laird	FlexPIFA	PCB Dipole	IPEX MHF4	---	2	External
3	Mag.Layers	EDA-8709-2G4C1-B27-CY	Dipole	IPEX MHF4	2	---	External
4	Laird	mFlexPIFA	PIFA	IPEX MHF4	---	2	External
5	Laird	Laird NFC	spiral	---	---	---	Internal + External
6	Laird	BL5340 onboard printed PCB Trace antenna	Printed PCB	---	1.49	---	Internal
7	Laird	i-FlexPIFA	Inverted Ground Flexible Planar Inverted F Antenna (i-FlexPIFA)	---	---	3.1	External

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	3.3Vdc from host		
Operational Voltage	☐ Vnom (3.30 Vdc)	☒ Vmax (3.60 Vdc)	☒ Vmin (3.00 Vdc)

1.1.4 Accessories

N/A

1.1.5 Channel List

Frequency band (MHz)				2400~2483.5 / BT-LE(125 kbps / 500 kbps / 1Mbps)			
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

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

1.1.6 Test Tool and Duty Cycle

Test Tool	Tera Term, Version: 4.74	
Modulation Mode	Duty Cycle Of Test Signal (%)	Duty Factor (dB)
BT-LE(125kbps)	100.00%	0.00
BT-LE(500kbps)	100.00%	0.00
BT-LE(1Mbps)	100.00%	0.00
BT-LE(2Mbps)	100.00%	0.00

1.1.7 Power Index of Test Tool

External antenna

Modulation Mode	Test Frequency (MHz)					
	2402		2440		2480	
	Main chip (nRF5340)	FEM chip (nRF21540)	Main chip (nRF5340)	FEM chip (nRF21540)	Main chip (nRF5340)	FEM chip (nRF21540)
GFSK/125kbps	neg8dBm	25(Gain=20)	neg8dBm	25(Gain=20)	neg8dBm	25(Gain=20)
GFSK/500kbps	neg3dBm	25(Gain=20)	neg3dBm	25(Gain=20)	neg7dBm	25(Gain=20)
GFSK/1Mbps	neg3dBm	25(Gain=20)	neg3dBm	25(Gain=20)	neg7dBm	25(Gain=20)
Modulation Mode	2404		2440		2478	
	Main chip (nRF5340)	FEM chip (nRF21540)	Main chip (nRF5340)	FEM chip (nRF21540)	Main chip (nRF5340)	FEM chip (nRF21540)
	Main chip (nRF5340)	FEM chip (nRF21540)	Main chip (nRF5340)	FEM chip (nRF21540)	Main chip (nRF5340)	FEM chip (nRF21540)
GFSK/2Mbps	neg3dBm	25(Gain=20)	neg3dBm	25(Gain=20)	neg12dBm	25(Gain=20)

Internal antenna

Modulation Mode	Test Frequency (MHz)					
	2402		2440		2480	
	Main chip (nRF5340)	FEM chip (nRF21540)	Main chip (nRF5340)	FEM chip (nRF21540)	Main chip (nRF5340)	FEM chip (nRF21540)
BT-LE(125kbps)	neg8dBm	25(Gain=20)	neg8dBm	25(Gain=20)	neg8dBm	25(Gain=20)
BT-LE(500kbps)	neg3dBm	25(Gain=20)	neg3dBm	25(Gain=20)	neg5dBm	25(Gain=20)
BT-LE(1Mbps)	neg3dBm	25(Gain=20)	neg3dBm	25(Gain=20)	neg5dBm	25(Gain=20)
Modulation Mode	2404		2440		2478	
	Main chip (nRF5340)	FEM chip (nRF21540)	Main chip (nRF5340)	FEM chip (nRF21540)	Main chip (nRF5340)	FEM chip (nRF21540)
	Main chip (nRF5340)	FEM chip (nRF21540)	Main chip (nRF5340)	FEM chip (nRF21540)	Main chip (nRF5340)	FEM chip (nRF21540)
BT-LE(2Mbps)	neg3dBm	25(Gain=20)	neg3dBm	25(Gain=20)	neg8dBm	25(Gain=20)

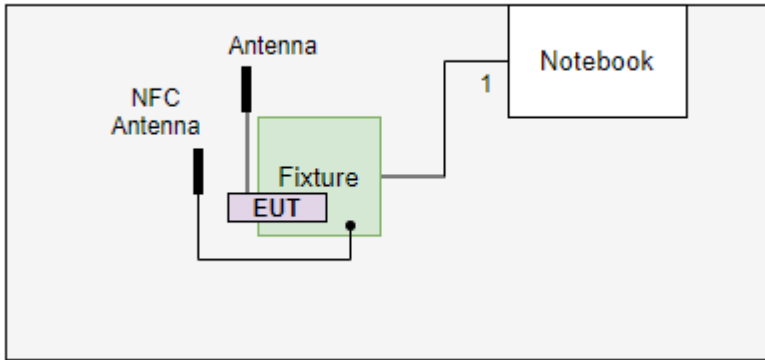
Note:

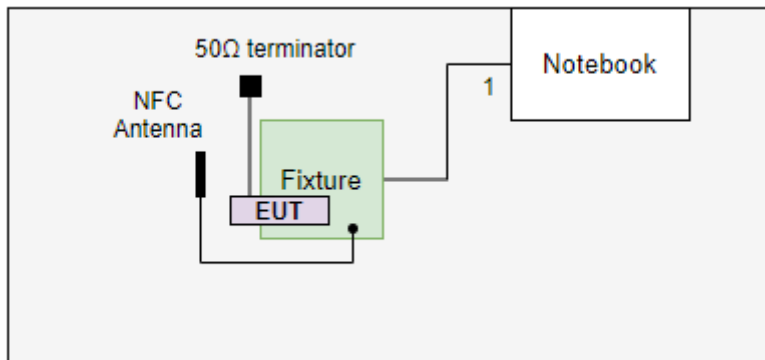
BL5340PA modules certified with FIXED default nRF21540 TX_Gain=POUTA_PROD=20dB±0.5dB (which is the TX_Gain value stored in the nRF21540 chip production by Nordic per chip to chip to hit the TX_Gain=POUTA_PROD=20dB±0.5dB). This particular certification sample had Nordic calibrated and stored TX_Gain value in decimal of 25." "BL5340PA consists of nRF5340 chip RF driving the nRF21540 Front end module (FEM) which is used in 20dB FIXED TX_Gain mode.

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E5470	DoC	---
2	50Ω terminator	---	---	---	---
3	Fixture	---	---	---	Provided by applicant.
4	USB Cable	ICC	micro to A	---	---

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	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Jan. 30, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 16, 2022	Feb. 15, 2023
LISN	R&S	ENV216	101579	Apr. 21, 2022	Apr. 20, 2023
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127666	Feb. 15, 2022	Feb. 14, 2023
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 17, 2022	Oct. 16, 2023
50 ohm terminal (Support Unit)	NA	50	01	May 10, 2022	May 09, 2023
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 chamber3 / (03CH03-WS)				
Tested Date	Nov. 15 ~ Nov. 16, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 15, 2022	Mar. 14, 2023
Spectrum Analyzer	R&S	FSV40	101499	Mar. 08, 2022	Mar. 07, 2023
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 01, 2022	Oct. 31, 2023
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Jun. 28, 2022	Jun. 27, 2023
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 20, 2021	Dec. 19, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Jan. 11, 2022	Jan. 10, 2023
Preamplifier	EMC	EMC02325	980187	Jul. 16, 2022	Jul. 15, 2023
Preamplifier	EMC	EMC184045SE	980897	Aug. 01, 2022	Jul. 31, 2023
Preamplifier	EMC	EMC184045SE	980903	Jul. 16, 2022	Jul. 15, 2023
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 04, 2022	Oct. 03, 2023
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 23, 2022	Sep. 22, 2023
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 23, 2022	Sep. 22, 2023
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 23, 2022	Sep. 22, 2023
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 23, 2022	Sep. 22, 2023
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 23, 2022	Sep. 22, 2023
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Nov. 14, 2022 ~ Jan. 03, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 08, 2022	Apr. 07, 2023
Power Meter	Anritsu	ML2495A	1241001	Jan. 14, 2022	Jan. 13, 2023
Power Sensor	Anritsu	MA2411B	1911228	Jan. 14, 2022	Jan. 13, 2023
Measurement Software	Sporton	SENSE-15247_FS	V5.10.7.11	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.247
ANSI C63.10-2013

1.6 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.130 Hz
Conducted power	± 0.808 dB
Power density	± 0.583 dB
Conducted emission	± 2.715 dB
AC conducted emission	± 2.92 dB
Unwanted Emission ≤ 1 GHz	± 3.96 dB
Unwanted Emission > 1 GHz	± 4.51 dB

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-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.)
Test Site	03CH03-WS
Address of Test Site	No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISED#: 10807C
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Mode	Test Frequency (MHz)	Conducted / Radiated measurement	Test Configuration
AC Power Line Conducted Emissions	BT-LE(1Mbps)	2440	Conducted	1 Note2, 2 Note2
Unwanted Emissions $\leq$ 1GHz	BT-LE(1Mbps)	2440	Conducted	1 Note2, 2 Note2
Unwanted Emissions > 1GHz	BT-LE(125kbps) BT-LE(500kbps) BT-LE(1Mbps) BT-LE(2Mbps)	2402, 2440, 2480 2402, 2440, 2480 2402, 2440, 2480 2404, 2440, 2478	Conducted	1 Note2, 2 Note2
Unwanted Emissions $\leq$ 1GHz	BT-LE(1Mbps)	2440	Radiated	1 Note2,3
Unwanted Emissions > 1GHz	BT-LE(125kbps) BT-LE(500kbps) BT-LE(1Mbps) BT-LE(2Mbps)	2402, 2440, 2480 2402, 2440, 2480 2402, 2440, 2480 2404, 2440, 2478	Radiated	1 Note2,3
Unwanted Emissions > 1GHz	BT-LE(500kbps) BT-LE(1Mbps) BT-LE(2Mbps)	2480 2480 2478	Radiated	2 Note2,3
Conducted Output Power 6dB bandwidth Power spectral density	BT-LE(125kbps) BT-LE(500kbps) BT-LE(1Mbps) BT-LE(2Mbps)	2402, 2440, 2480 2402, 2440, 2480 2402, 2440, 2480 2404, 2440, 2478	Conducted	1 Note2
Conducted Output Power 6dB bandwidth Power spectral density	BT-LE(500kbps) BT-LE(1Mbps) BT-LE(2Mbps)	2480 2480 2478	Conducted	2 Note2

NOTE:

- The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Z-plane** result was found as the worst case and was shown in this report.
- Test configurations are listed as below:
 - Configuration 1: Power index of Internal antenna + Laird NFC
 - Configuration 2: Power index of External antenna (Model: i-FlexPIFA) + Laird NFC
- The 50 Ω terminators are connected to antenna port of EUT for radiated emission measurement.
- VREQCNTL turned off
- nRF5340 chipset DCDC convertor Mode A : VREGRADIO DCDC on / VRERGMMAIN DCDC on / VREGH DCDC on
nRF5340 chipset DCDC convertor Mode B : VREGRADIO DCDC off / VRERGMMAIN DCDC off / VREGH DCDC off
Mode A is the worst case

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

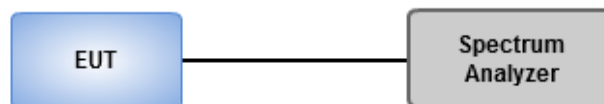
6dB Bandwidth

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	24-25°C / 61-65%	Tested By	Roger Lu
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Refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Limit of Conducted Output Power

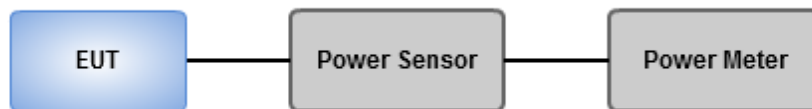
Conducted power shall not exceed 1Watt.

Antenna gain $\leq 6\text{dBi}$, no any corresponding reduction is in output power limit.

3.2.2 Test Procedures

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

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	24-25°C / 61-65%	Tested By	Roger Lu
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Refer to Appendix B.

3.3 Power Spectral Density

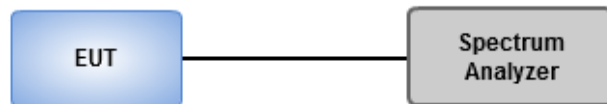
3.3.1 Limit of Power Spectral Density

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	24-25°C / 61-65%	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

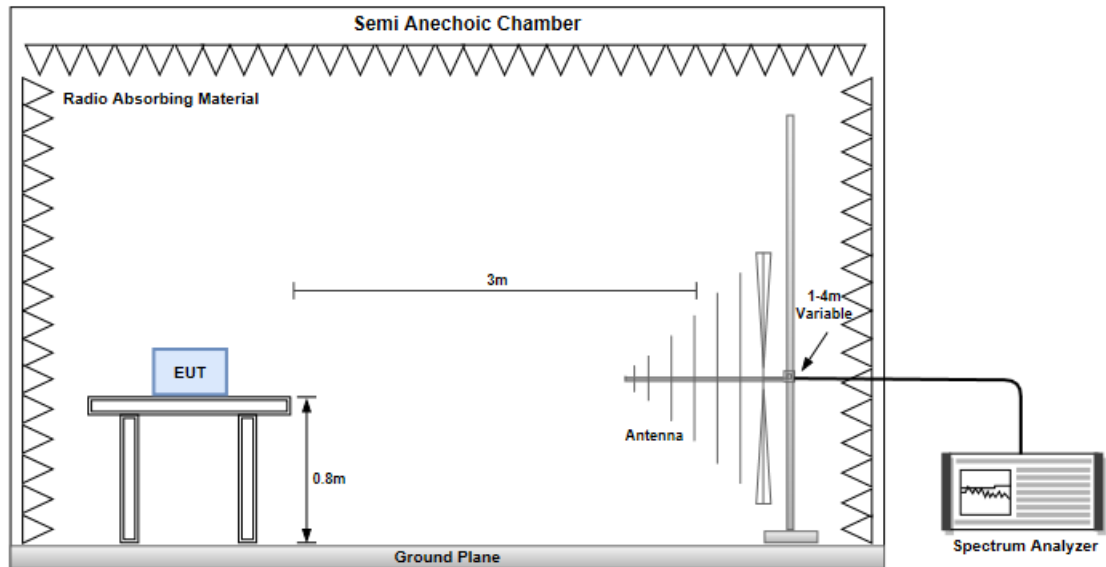
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

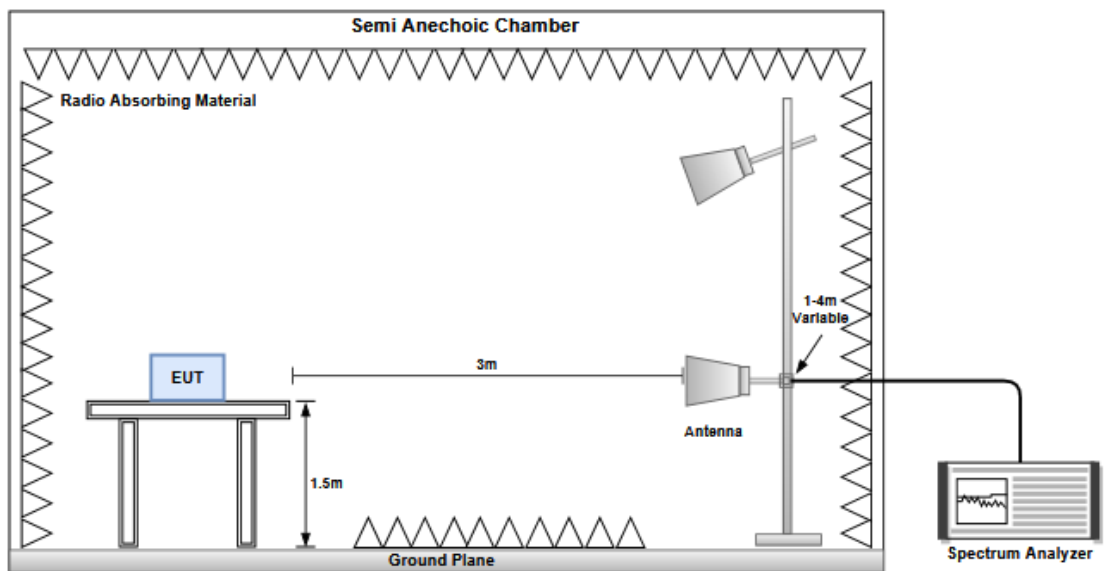
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.4.3 Test Setup

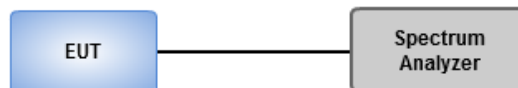
Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



Transmitter Conducted Unwanted Emissions (30MHz~40GHz)



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

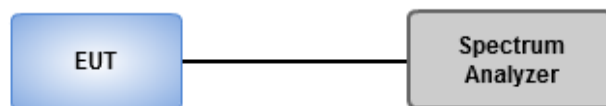
Reference level measurement

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	24-25°C / 61-65%	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

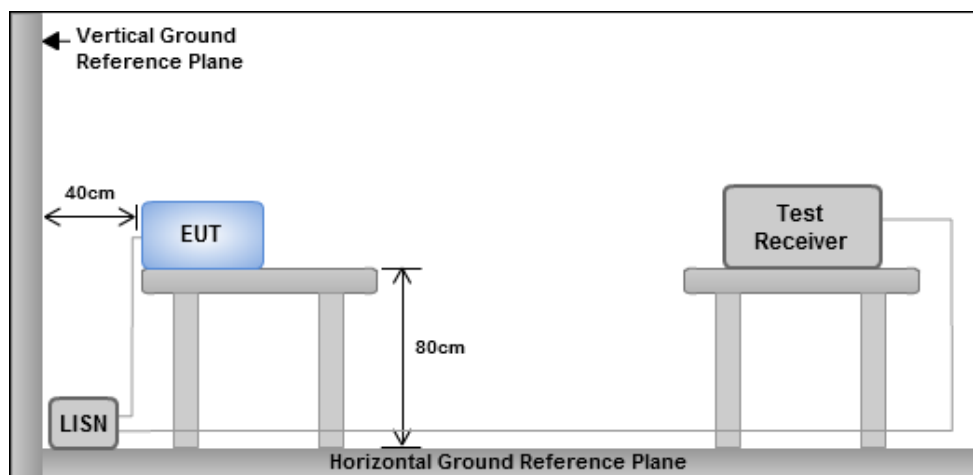
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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 <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 33381, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==

External antenna

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(500kbps)	677.536k	1.049M	1M06F1D	677.536k	1.049M
BT-LE(1Mbps)	706.522k	1.071M	1M08F1D	706.522k	1.071M
BT-LE(2Mbps)	1.254M	2.156M	2M16F1D	1.254M	2.156M

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(500kbps)	-	-	-	-
2480MHz	Pass	500k	677.536k	1.049M
BT-LE(1Mbps)	-	-	-	-
2480MHz	Pass	500k	706.522k	1.071M
BT-LE(2Mbps)	-	-	-	-
2478MHz	Pass	500k	1.254M	2.156M

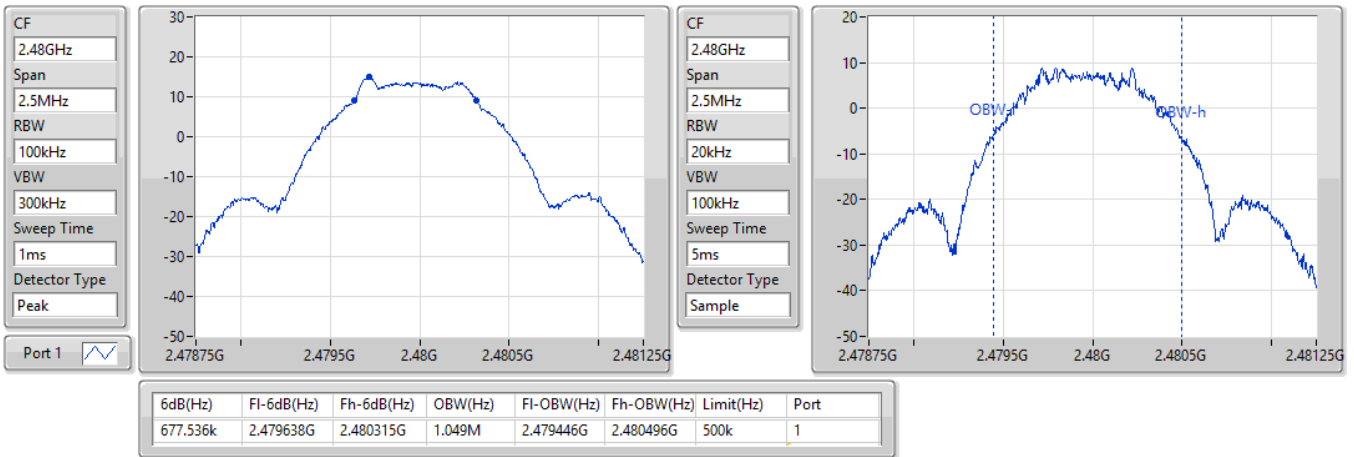
Port X-N dB = Port X 6dB down bandwidth;

Port X-OBW = Port X 99% occupied bandwidth

BT-LE(500kbps)

EBW-DTS

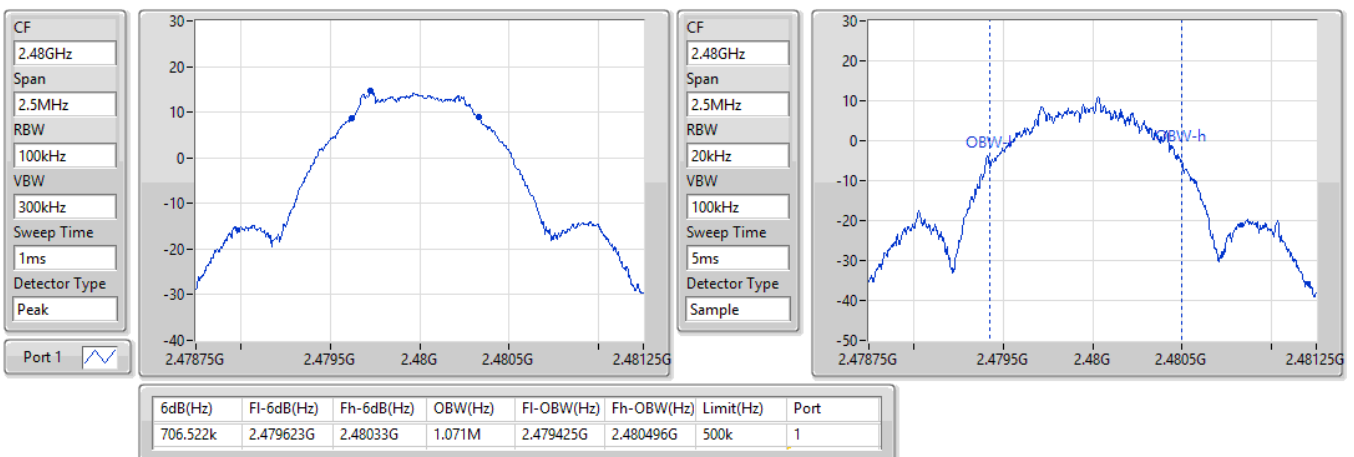
2480MHz



BT-LE(1Mbps)

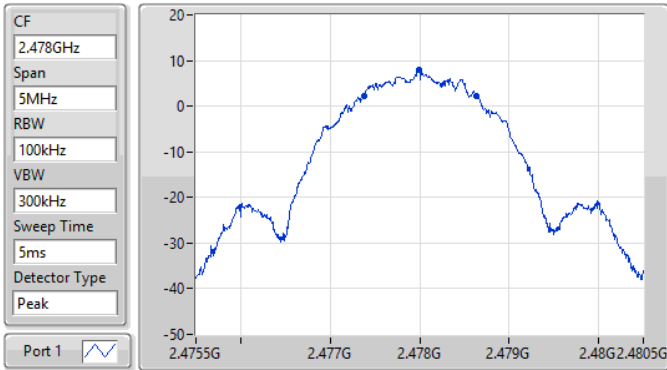
EBW-DTS

2480MHz



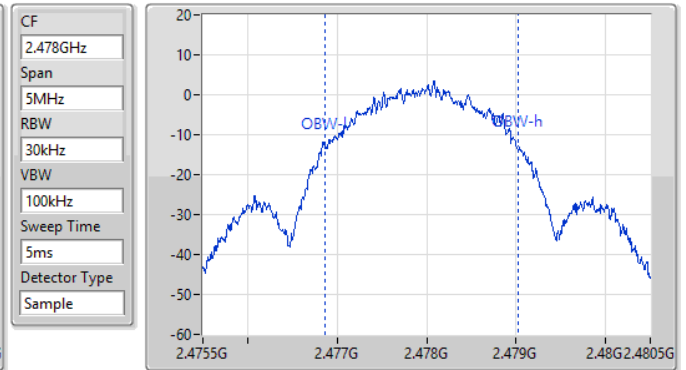
BT-LE(2Mbps)

2478MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.254M	2.477377G	2.47863G	2.156M	2.476871G	2.479027G	500k	1

EBW-DTS



**Summary**

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(500kbps)	14.71	0.02958
BT-LE(1Mbps)	14.76	0.02992
BT-LE(2Mbps)	9.11	0.00815

Result

Mode	Result	Antenna Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(500kbps)	-	-	-	-
2480MHz	Pass	3.10	14.71	30.00
BT-LE(1Mbps)	-	-	-	-
2480MHz	Pass	3.10	14.76	30.00
BT-LE(2Mbps)	-	-	-	-
2478MHz	Pass	3.10	9.11	30.00

**Summary**

Mode	PD (dBm/3kHz)
2.4-2.4835GHz	-
BT-LE(500kbps)	-0.32
BT-LE(1Mbps)	-4.07
BT-LE(2Mbps)	-12.30

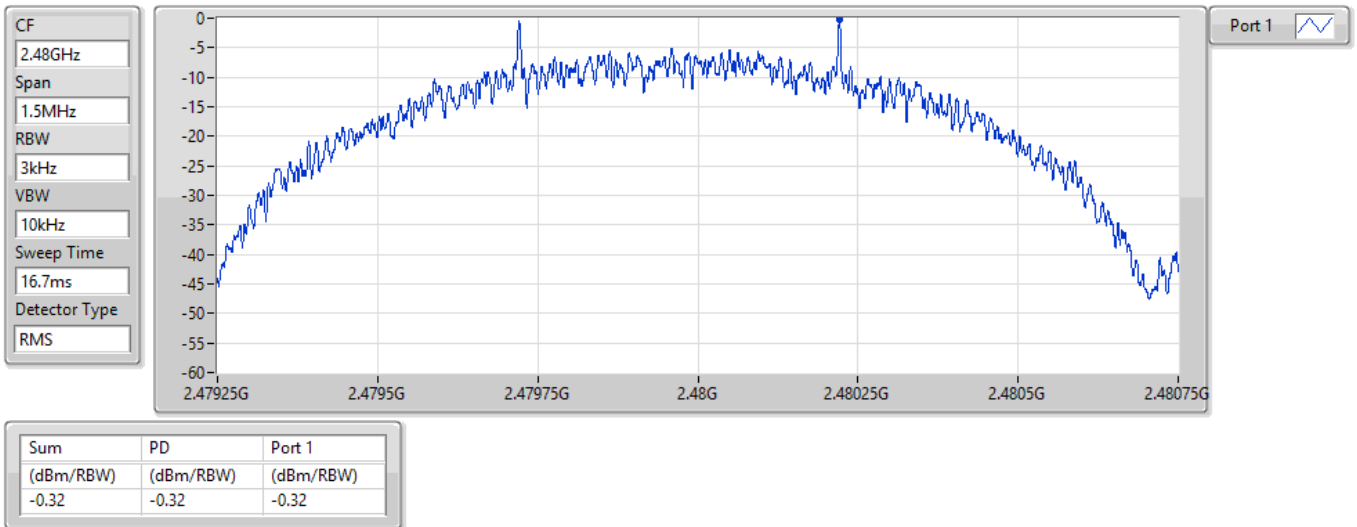
Result

Mode	Result	Antenna Gain (dBi)	Power Density (dBm/3kHz)	Power Density Limit (dBm/3kHz)
BT-LE(500kbps)	-	-	-	-
2480MHz	Pass	3.10	-0.32	8.00
BT-LE(1Mbps)	-	-	-	-
2480MHz	Pass	3.10	-4.07	8.00
BT-LE(2Mbps)	-	-	-	-
2478MHz	Pass	3.10	-12.30	8.00

BT-LE(500kbps)

PSD

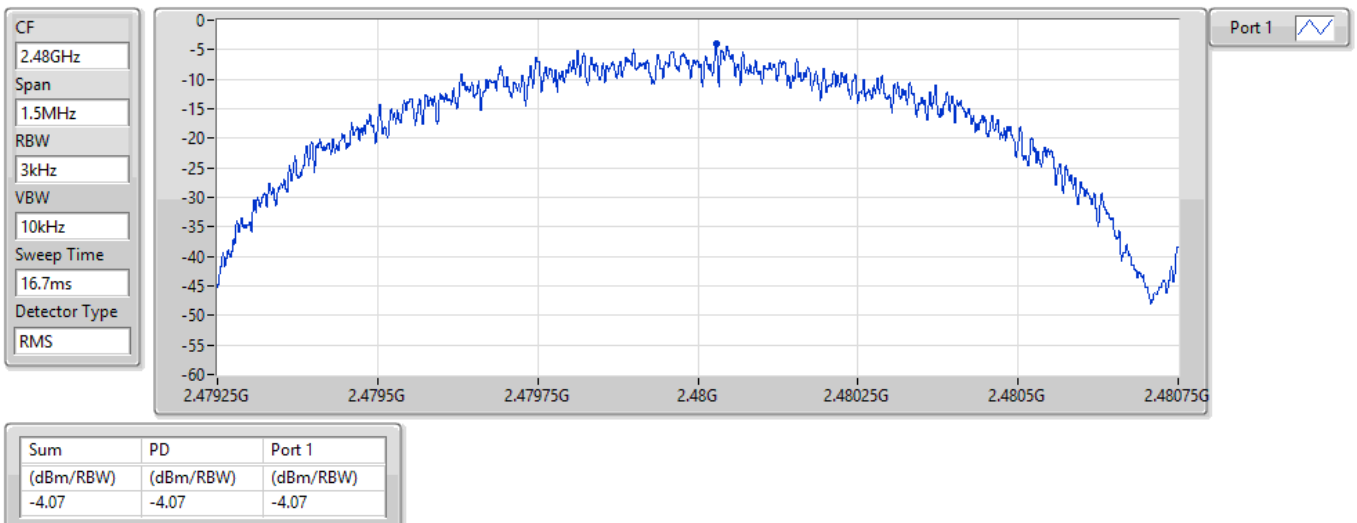
2480MHz



BT-LE(1Mbps)

PSD

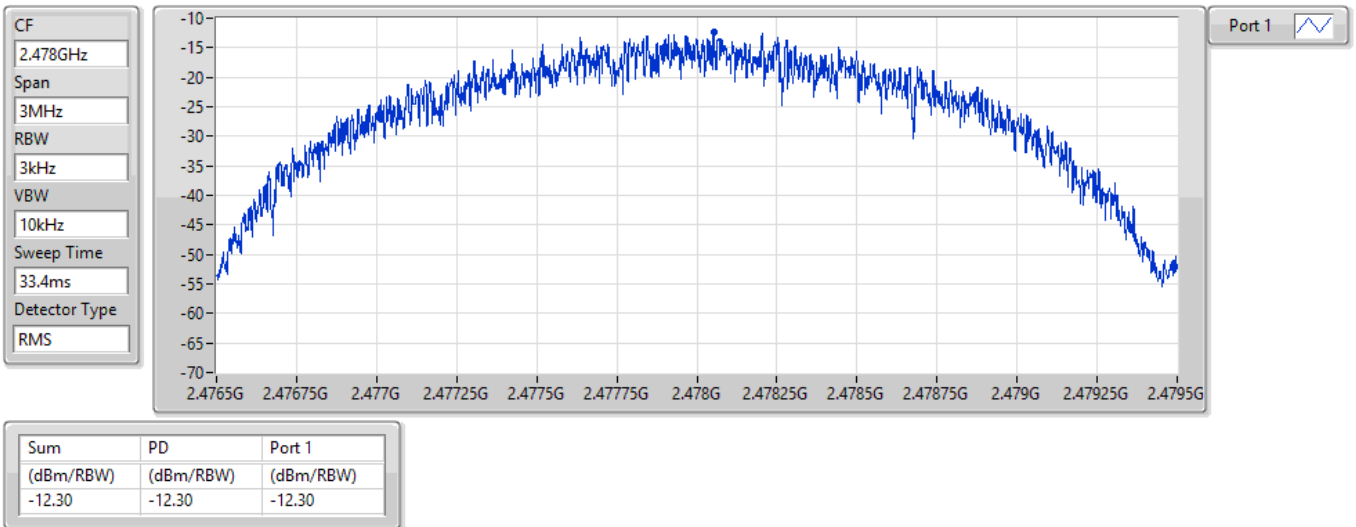
2480MHz



BT-LE(2Mbps)

PSD

2478MHz



Transmitter Conducted Unwanted Emissions (30MHz ~ 1GHz)
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(125kbps)	Pass	30M	1G	PK	73.65M	3.10	-78.26	4.7	-70.46	-55.20	-15.26
BT-LE(500kbps)	Pass	30M	1G	PK	74.14M	3.10	-78.26	4.7	-70.46	-55.20	-15.26
BT-LE(1Mbps)	Pass	30M	1G	PK	74.74M	3.10	-76.10	4.7	-68.30	-55.20	-13.10
BT-LE(2Mbps)	Pass	30M	1G	PK	74.5M	3.10	-79.20	4.7	-71.40	-55.20	-16.20

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(125kbps)	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	30M	1G	PK	73.65M	3.10	-78.26	-70.46	-55.20	-15.26
BT-LE(500kbps)	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	30M	1G	PK	74.14M	3.10	-78.26	-70.46	-55.20	-15.26
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	30M	1G	PK	74.74M	3.10	-76.10	-68.30	-55.20	-13.10
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	30M	1G	PK	74.5M	3.10	-79.20	-71.40	-55.20	-16.20

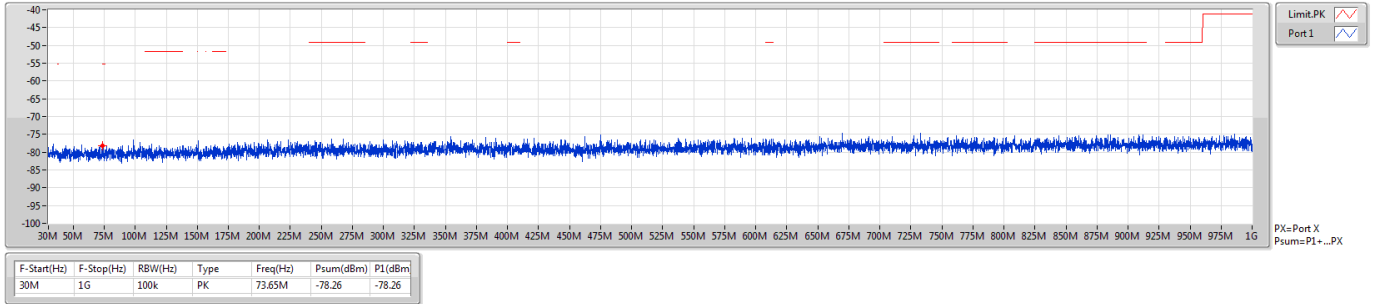
DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX



BT-LE(125kbps)

CSE-DTS [PK]

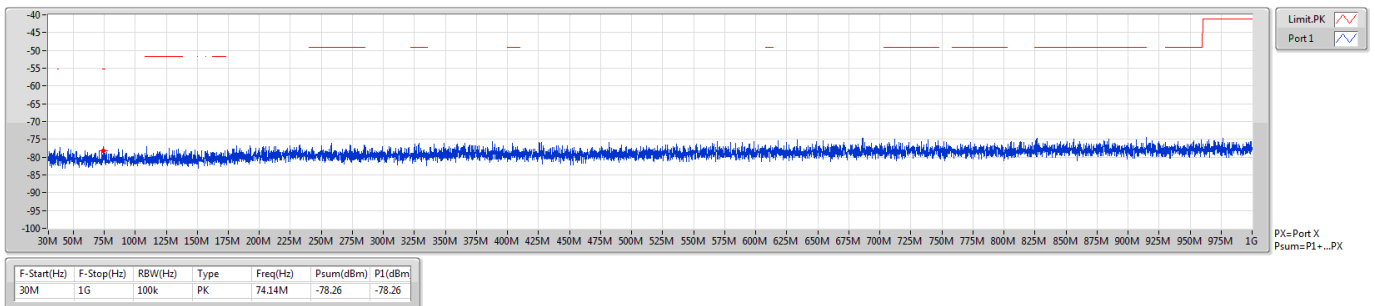
2440MHz



BT-LE(500kbps)

CSE-DTS [PK]

2440MHz

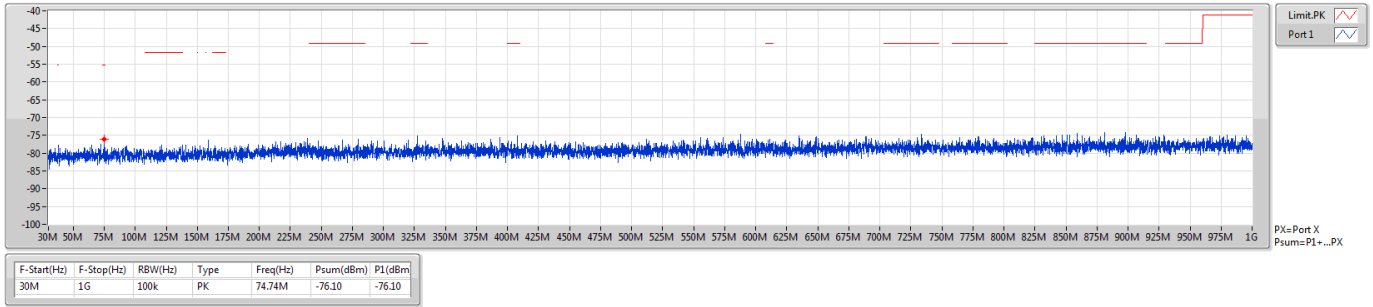




BT-LE(1Mbps)

CSE-DTS [PK]

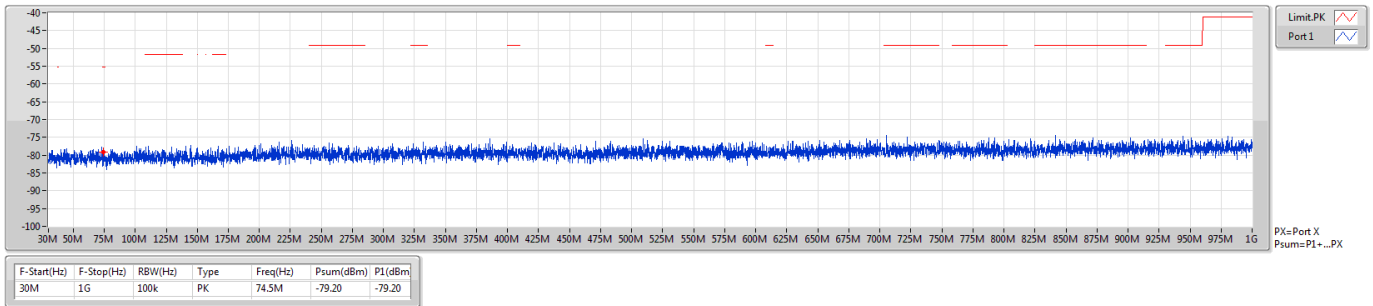
2440MHz



BT-LE(2Mbps)

CSE-DTS [PK]

2440MHz



Transmitter Conducted Unwanted Emissions (1GHz ~ 3.1GHz)

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(125kbps)	Pass	2.4835G	2.5G	AV	2.48798G	3.10	-48.51	-45.41	-41.20	-4.21
BT-LE(500kbps)	Pass	2.4835G	2.5G	AV	2.48786G	3.10	-47.48	-44.38	-41.20	-3.18
BT-LE(1Mbps)	Pass	2.4835G	2.5G	AV	2.48786G	3.10	-47.61	-44.51	-41.20	-3.31
BT-LE(2Mbps)	Pass	2.4835G	2.5G	AV	2.48366G	3.10	-50.03	-46.93	-41.20	-5.73

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(125kbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	1G	2.31G	AV	2.27414G	3.10	-58.78	-55.68	-41.20	-14.48
2402MHz	Pass	2.31G	2.39G	AV	2.38604G	3.10	-56.99	-53.89	-41.20	-12.69
2402MHz	Pass	2.4835G	2.5G	AV	2.49791G	3.10	-57.76	-54.66	-41.20	-13.46
2402MHz	Pass	2.5G	3.1G	AV	2.53G	3.10	-52.91	-49.81	-41.20	-8.61
2402MHz	Pass	1G	2.31G	PK	2.27463G	3.10	-51.39	-48.29	-21.20	-27.09
2402MHz	Pass	2.31G	2.39G	PK	2.33788G	3.10	-41.39	-38.29	-21.20	-17.09
2402MHz	Pass	2.4835G	2.5G	PK	2.49854G	3.10	-47.76	-44.66	-21.20	-23.46
2402MHz	Pass	2.5G	3.1G	PK	2.5297G	3.10	-47.14	-44.04	-21.20	-22.84
2440MHz	Pass	1G	2.31G	AV	2.2481G	3.10	-60.08	-56.98	-41.20	-15.78
2440MHz	Pass	2.31G	2.39G	AV	2.312G	3.10	-57.83	-54.73	-41.20	-13.53
2440MHz	Pass	2.4835G	2.5G	AV	2.4879G	3.10	-57.80	-54.70	-41.20	-13.50
2440MHz	Pass	2.5G	3.1G	AV	2.56795G	3.10	-54.97	-51.87	-41.20	-10.67
2440MHz	Pass	1G	2.31G	PK	2.29494G	3.10	-51.66	-48.56	-21.20	-27.36
2440MHz	Pass	2.31G	2.39G	PK	2.37596G	3.10	-40.42	-37.32	-21.20	-16.12
2440MHz	Pass	2.4835G	2.5G	PK	2.48837G	3.10	-47.40	-44.30	-21.20	-23.10
2440MHz	Pass	2.5G	3.1G	PK	2.5681G	3.10	-47.16	-44.06	-21.20	-22.86
2480MHz	Pass	1G	2.31G	AV	2.28789G	3.10	-60.08	-56.98	-41.20	-15.78
2480MHz	Pass	2.31G	2.39G	AV	2.352G	3.10	-54.24	-51.14	-41.20	-9.94
2480MHz	Pass	2.4835G	2.5G	AV	2.48798G	3.10	-48.51	-45.41	-41.20	-4.21
2480MHz	Pass	2.5G	3.1G	AV	2.60785G	3.10	-54.54	-51.44	-41.20	-10.24
2480MHz	Pass	1G	2.31G	PK	2.24974G	3.10	-51.22	-48.12	-21.20	-26.92
2480MHz	Pass	2.31G	2.39G	PK	2.35168G	3.10	-46.92	-43.82	-21.20	-22.62
2480MHz	Pass	2.4835G	2.5G	PK	2.48355G	3.10	-37.18	-34.08	-21.20	-12.88
2480MHz	Pass	2.5G	3.1G	PK	2.5444G	3.10	-44.96	-41.86	-21.20	-20.66
BT-LE(500kbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	1G	2.31G	AV	2.27414G	3.10	-56.18	-53.08	-41.20	-11.88
2402MHz	Pass	2.31G	2.39G	AV	2.37004G	3.10	-51.69	-48.59	-41.20	-7.39
2402MHz	Pass	2.4835G	2.5G	AV	2.49796G	3.10	-55.44	-52.34	-41.20	-11.14
2402MHz	Pass	2.5G	3.1G	AV	2.52985G	3.10	-51.39	-48.29	-41.20	-7.09
2402MHz	Pass	1G	2.31G	PK	2.27463G	3.10	-50.34	-47.24	-21.20	-26.04
2402MHz	Pass	2.31G	2.39G	PK	2.3378G	3.10	-36.42	-33.32	-21.20	-12.12
2402MHz	Pass	2.4835G	2.5G	PK	2.49827G	3.10	-47.33	-44.23	-21.20	-23.03
2402MHz	Pass	2.5G	3.1G	PK	2.5297G	3.10	-45.59	-42.49	-21.20	-21.29
2440MHz	Pass	1G	2.31G	AV	2.24827G	3.10	-56.63	-53.53	-41.20	-12.33
2440MHz	Pass	2.31G	2.39G	AV	2.31204G	3.10	-53.53	-50.43	-41.20	-9.23
2440MHz	Pass	2.4835G	2.5G	AV	2.48807G	3.10	-55.08	-51.98	-41.20	-10.78
2440MHz	Pass	2.5G	3.1G	AV	2.56795G	3.10	-53.42	-50.32	-41.20	-9.12
2440MHz	Pass	1G	2.31G	PK	2.31G	3.10	-50.56	-47.46	-21.20	-26.26
2440MHz	Pass	2.31G	2.39G	PK	2.376G	3.10	-32.89	-29.79	-21.20	-8.59
2440MHz	Pass	2.4835G	2.5G	PK	2.48842G	3.10	-45.78	-42.68	-21.20	-21.48
2440MHz	Pass	2.5G	3.1G	PK	2.5042G	3.10	-35.12	-32.02	-21.20	-10.82

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	2.28806G	3.10	-59.62	-56.52	-41.20	-15.32
2480MHz	Pass	2.31G	2.39G	AV	2.35188G	3.10	-53.34	-50.24	-41.20	-9.04
2480MHz	Pass	2.4835G	2.5G	AV	2.48786G	3.10	-47.48	-44.38	-41.20	-3.18
2480MHz	Pass	2.5G	3.1G	AV	2.60785G	3.10	-54.42	-51.32	-41.20	-10.12
2480MHz	Pass	1G	2.31G	PK	2.11678G	3.10	-52.13	-49.03	-21.20	-27.83
2480MHz	Pass	2.31G	2.39G	PK	2.35184G	3.10	-47.58	-44.48	-21.20	-23.28
2480MHz	Pass	2.4835G	2.5G	PK	2.48351G	3.10	-37.70	-34.60	-21.20	-13.40
2480MHz	Pass	2.5G	3.1G	PK	2.5039G	3.10	-48.31	-45.21	-21.20	-24.01
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	1G	2.31G	AV	2.27414G	3.10	-56.18	-53.08	-41.20	-11.88
2402MHz	Pass	2.31G	2.39G	AV	2.37G	3.10	-51.44	-48.34	-41.20	-7.14
2402MHz	Pass	2.4835G	2.5G	AV	2.498G	3.10	-55.58	-52.48	-41.20	-11.28
2402MHz	Pass	2.5G	3.1G	AV	2.52985G	3.10	-51.47	-48.37	-41.20	-7.17
2402MHz	Pass	1G	2.31G	PK	2.27463G	3.10	-49.99	-46.89	-21.20	-25.69
2402MHz	Pass	2.31G	2.39G	PK	2.33808G	3.10	-36.62	-33.52	-21.20	-12.32
2402MHz	Pass	2.4835G	2.5G	PK	2.49822G	3.10	-47.55	-44.45	-21.20	-23.25
2402MHz	Pass	2.5G	3.1G	PK	2.5297G	3.10	-45.46	-42.36	-21.20	-21.16
2440MHz	Pass	1G	2.31G	AV	2.24827G	3.10	-56.63	-53.53	-41.20	-12.33
2440MHz	Pass	2.31G	2.39G	AV	2.31196G	3.10	-53.32	-50.22	-41.20	-9.02
2440MHz	Pass	2.4835G	2.5G	AV	2.48809G	3.10	-55.20	-52.10	-41.20	-10.90
2440MHz	Pass	2.5G	3.1G	AV	2.56795G	3.10	-53.53	-50.43	-41.20	-9.23
2440MHz	Pass	1G	2.31G	PK	2.24843G	3.10	-49.45	-46.35	-21.20	-25.15
2440MHz	Pass	2.31G	2.39G	PK	2.37604G	3.10	-33.45	-30.35	-21.20	-9.15
2440MHz	Pass	2.4835G	2.5G	PK	2.48824G	3.10	-44.38	-41.28	-21.20	-20.08
2440MHz	Pass	2.5G	3.1G	PK	2.5042G	3.10	-36.75	-33.65	-21.20	-12.45
2480MHz	Pass	1G	2.31G	AV	2.28806G	3.10	-59.62	-56.52	-41.20	-15.32
2480MHz	Pass	2.31G	2.39G	AV	2.35196G	3.10	-53.14	-50.04	-41.20	-8.84
2480MHz	Pass	2.4835G	2.5G	AV	2.48786G	3.10	-47.61	-44.51	-41.20	-3.31
2480MHz	Pass	2.5G	3.1G	AV	2.60785G	3.10	-54.42	-51.32	-41.20	-10.12
2480MHz	Pass	1G	2.31G	PK	2.28839G	3.10	-52.14	-49.04	-21.20	-27.84
2480MHz	Pass	2.31G	2.39G	PK	2.35228G	3.10	-47.78	-44.68	-21.20	-23.48
2480MHz	Pass	2.4835G	2.5G	PK	2.48376G	3.10	-37.11	-34.01	-21.20	-12.81
2480MHz	Pass	2.5G	3.1G	PK	2.5435G	3.10	-41.81	-38.71	-21.20	-17.51
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2404MHz	Pass	1G	2.31G	AV	2.2761G	3.10	-56.45	-53.35	-41.20	-12.15
2404MHz	Pass	2.31G	2.39G	AV	2.38816G	3.10	-50.49	-47.39	-41.20	-6.19
2404MHz	Pass	2.4835G	2.5G	AV	2.49993G	3.10	-55.44	-52.34	-41.20	-11.14
2404MHz	Pass	2.5G	3.1G	AV	2.53195G	3.10	-51.72	-48.62	-41.20	-7.42
2404MHz	Pass	1G	2.31G	PK	2.27725G	3.10	-48.51	-45.41	-21.20	-24.21
2404MHz	Pass	2.31G	2.39G	PK	2.3404G	3.10	-35.80	-32.70	-21.20	-11.50
2404MHz	Pass	2.4835G	2.5G	PK	2.49993G	3.10	-46.03	-42.93	-21.20	-21.73
2404MHz	Pass	2.5G	3.1G	PK	2.5315G	3.10	-45.68	-42.58	-21.20	-21.38

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2440MHz	Pass	1G	2.31G	AV	2.24794G	3.10	-57.53	-54.43	-41.20	-13.23
2440MHz	Pass	2.31G	2.39G	AV	2.37612G	3.10	-53.83	-50.73	-41.20	-9.53
2440MHz	Pass	2.4835G	2.5G	AV	2.48797G	3.10	-54.67	-51.57	-41.20	-10.37
2440MHz	Pass	2.5G	3.1G	AV	2.5039G	3.10	-53.60	-50.50	-41.20	-9.30
2440MHz	Pass	1G	2.31G	PK	2.24909G	3.10	-49.69	-46.59	-21.20	-25.39
2440MHz	Pass	2.31G	2.39G	PK	2.3764G	3.10	-32.61	-29.51	-21.20	-8.31
2440MHz	Pass	2.4835G	2.5G	PK	2.49897G	3.10	-43.70	-40.60	-21.20	-19.40
2440MHz	Pass	2.5G	3.1G	PK	2.5042G	3.10	-37.29	-34.19	-21.20	-12.99
2478MHz	Pass	1G	2.31G	AV	2.28609G	3.10	-61.94	-58.84	-41.20	-17.64
2478MHz	Pass	2.31G	2.39G	AV	2.34984G	3.10	-59.03	-55.93	-41.20	-14.73
2478MHz	Pass	2.4835G	2.5G	AV	2.48366G	3.10	-50.03	-46.93	-41.20	-5.73
2478MHz	Pass	2.5G	3.1G	AV	2.60605G	3.10	-60.08	-56.98	-41.20	-15.78
2478MHz	Pass	1G	2.31G	PK	2.15739G	3.10	-52.17	-49.07	-21.20	-27.87
2478MHz	Pass	2.31G	2.39G	PK	2.34952G	3.10	-50.08	-46.98	-21.20	-25.78
2478MHz	Pass	2.4835G	2.5G	PK	2.4835G	3.10	-39.18	-36.08	-21.20	-14.88
2478MHz	Pass	2.5G	3.1G	PK	2.5417G	3.10	-45.32	-42.22	-21.20	-21.02

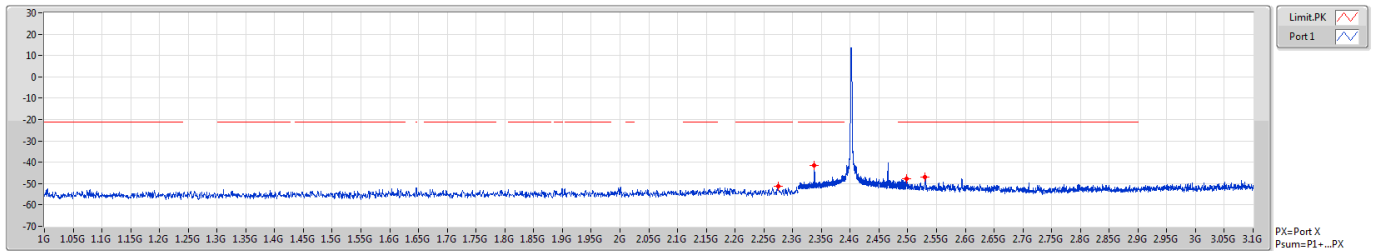
DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX



BT-LE(125kbps)

CSE-DTS [PK]

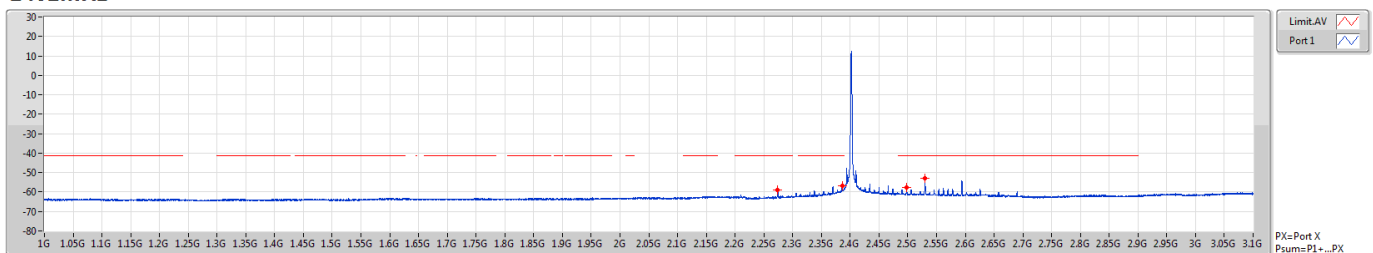
2402MHz



BT-LE(125kbps)

CSE-DTS [AV]

2402MHz

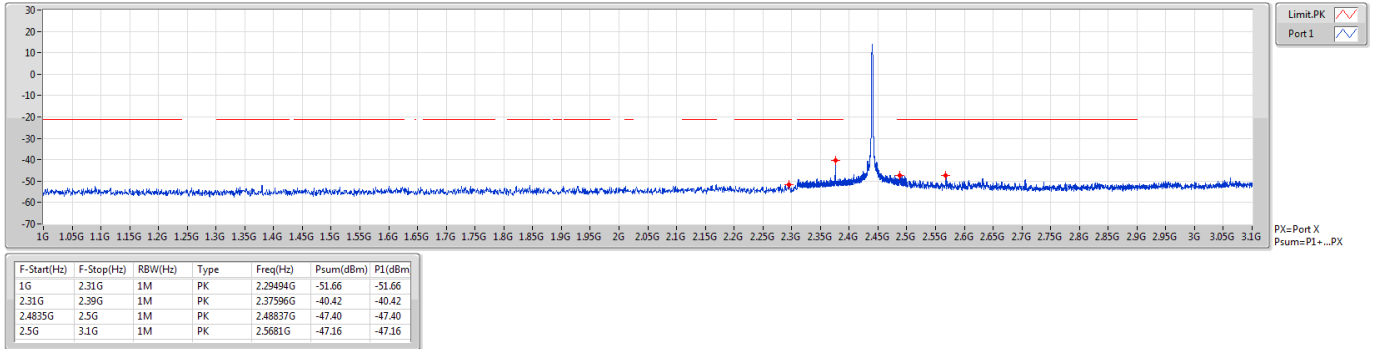




BT-LE(125kbps)

CSE-DTS [PK]

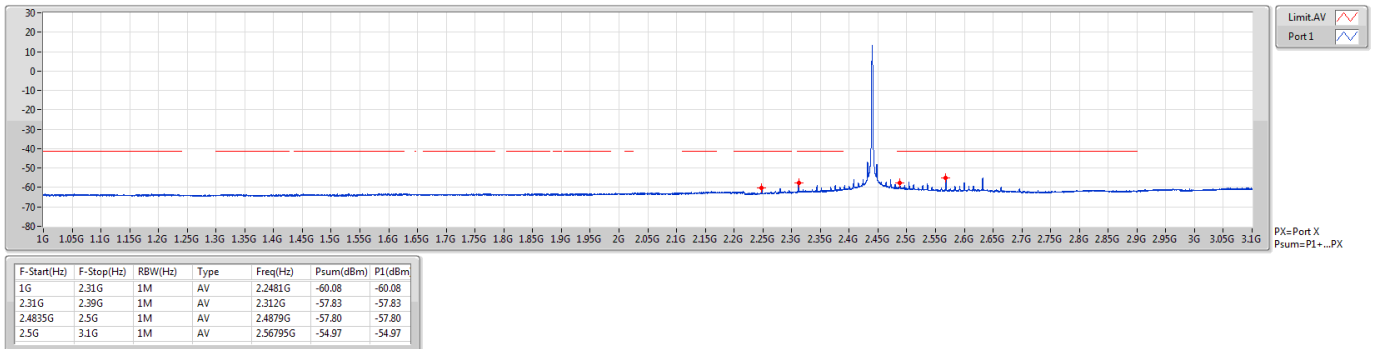
2440MHz



BT-LE(125kbps)

CSE-DTS [AV]

2440MHz

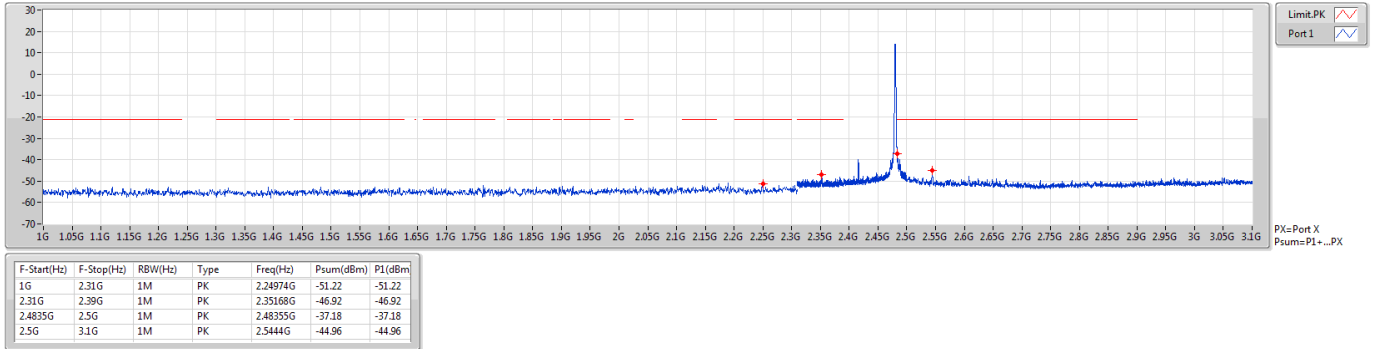




BT-LE(125kbps)

CSE-DTS [PK]

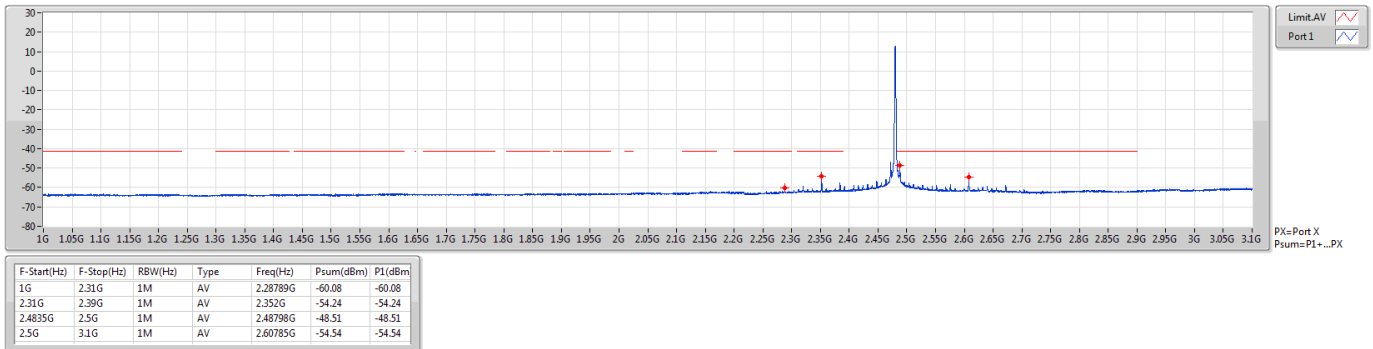
2480MHz



BT-LE(125kbps)

CSE-DTS [AV]

2480MHz

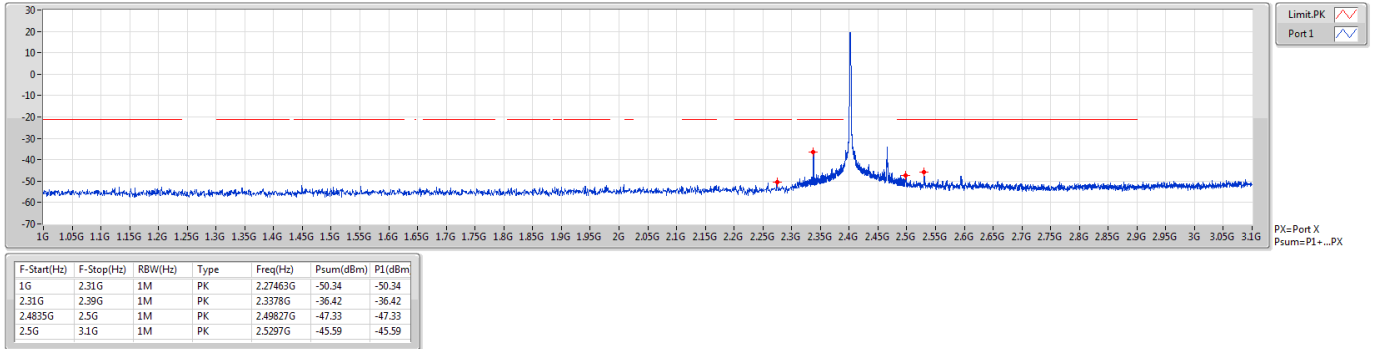




BT-LE(500kbps)

CSE-DTS [PK]

2402MHz



BT-LE(500kbps)

CSE-DTS [AV]

2402MHz

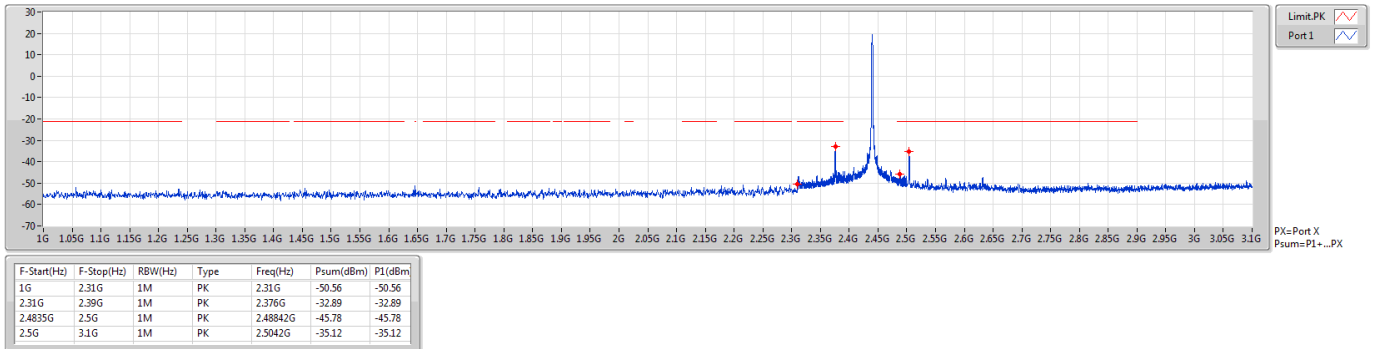




BT-LE(500kbps)

CSE-DTS [PK]

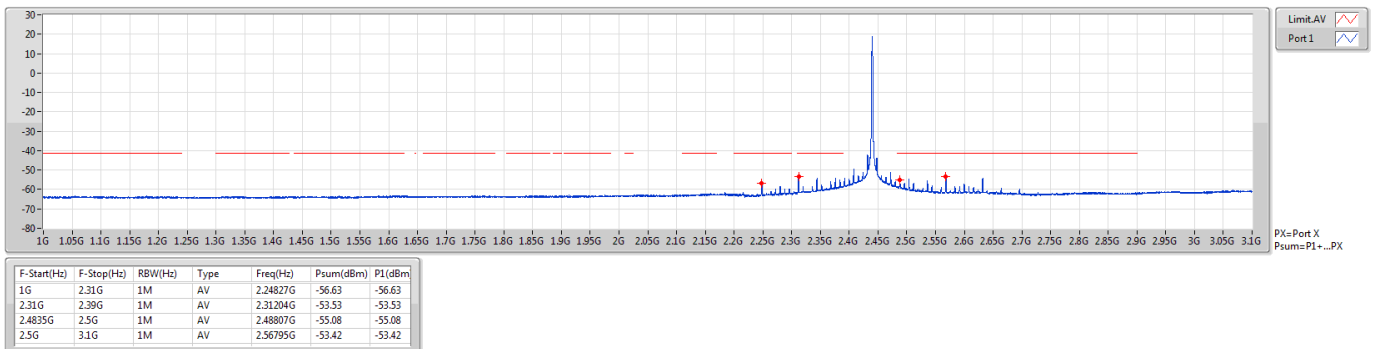
2440MHz



BT-LE(500kbps)

CSE-DTS [AV]

2440MHz

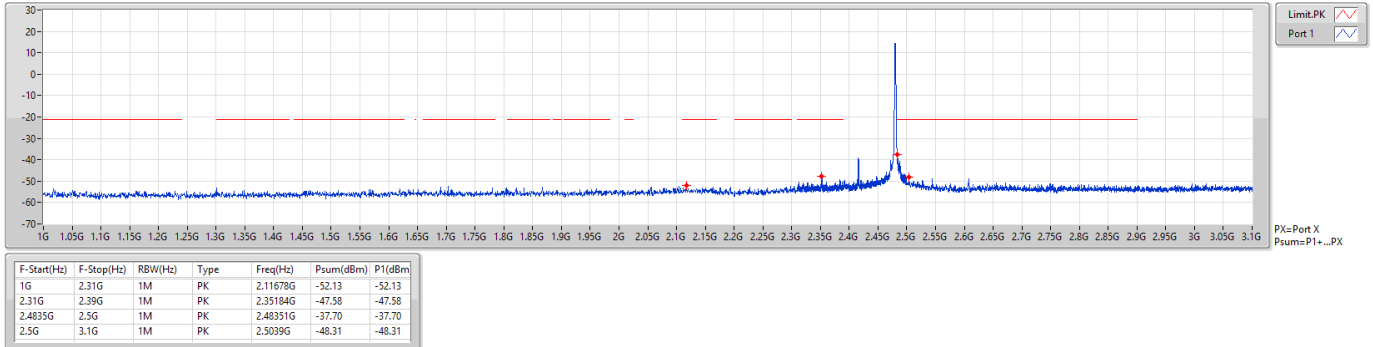




BT-LE(500kbps)

CSE-DTS [PK]

2480MHz



BT-LE(500kbps)

CSE-DTS [AV]

2480MHz

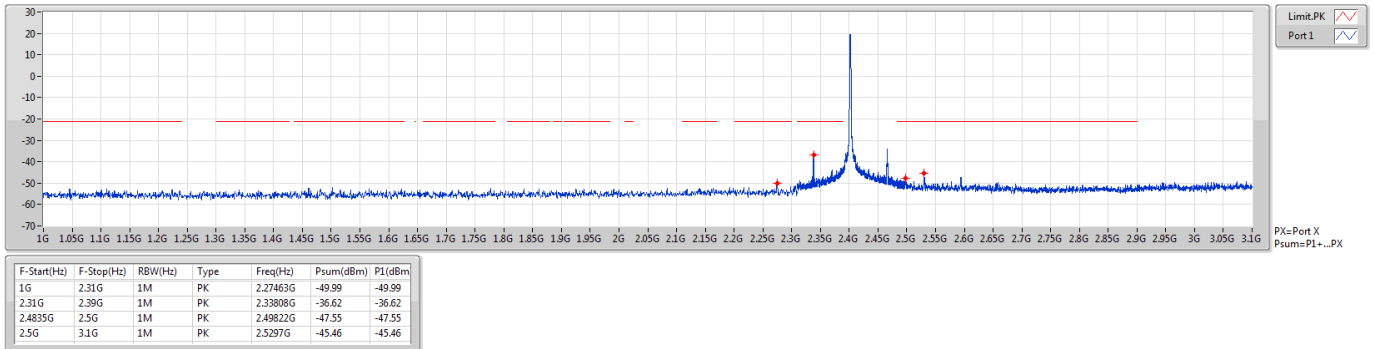




BT-LE(1Mbps)

CSE-DTS [PK]

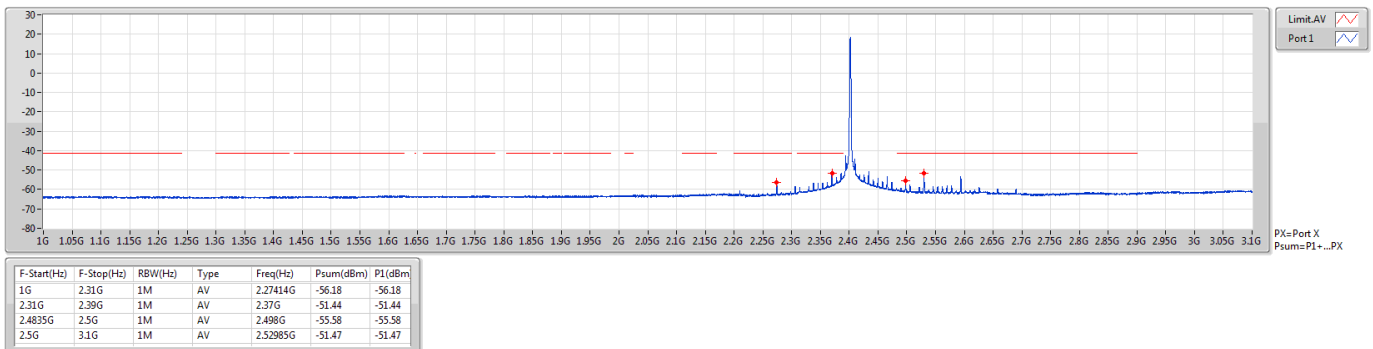
2402MHz



BT-LE(1Mbps)

CSE-DTS [AV]

2402MHz

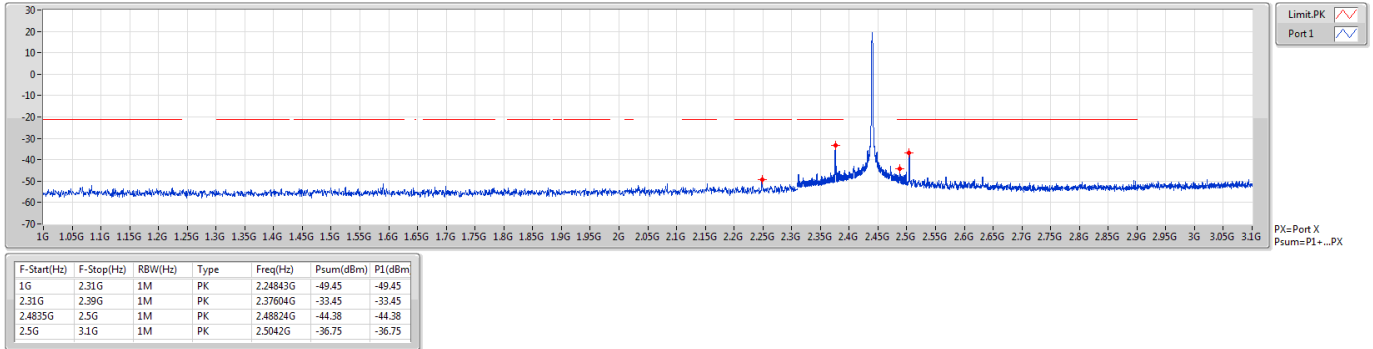




BT-LE(1Mbps)

CSE-DTS [PK]

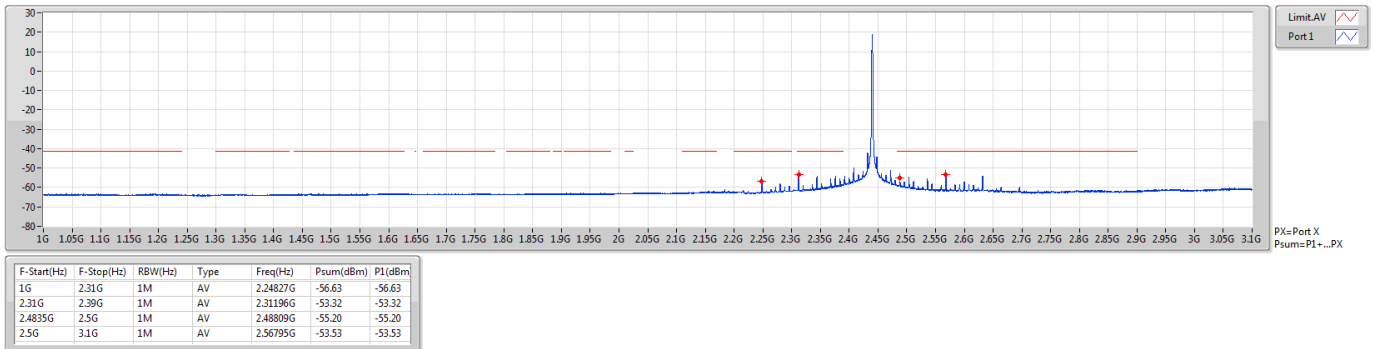
2440MHz



BT-LE(1Mbps)

CSE-DTS [AV]

2440MHz

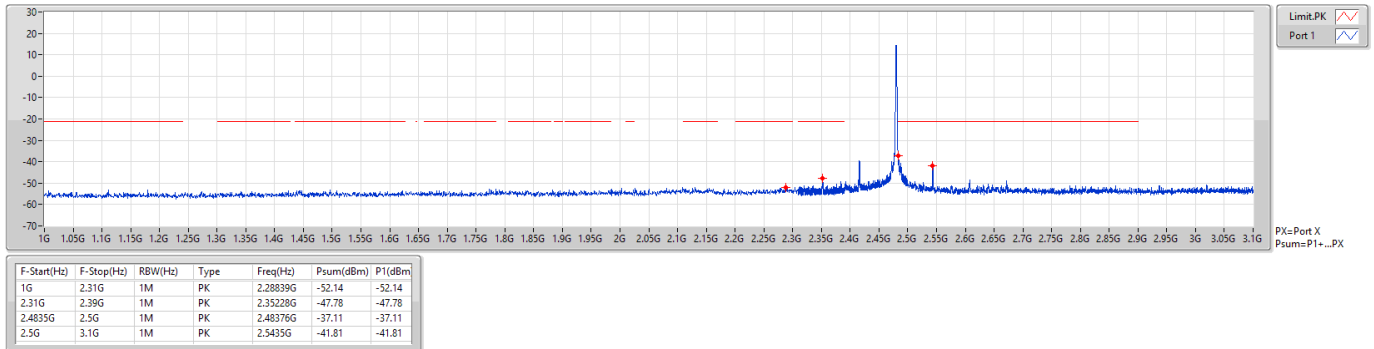




BT-LE(1Mbps)

CSE-DTS [PK]

2480MHz



BT-LE(1Mbps)

CSE-DTS [AV]

2480MHz

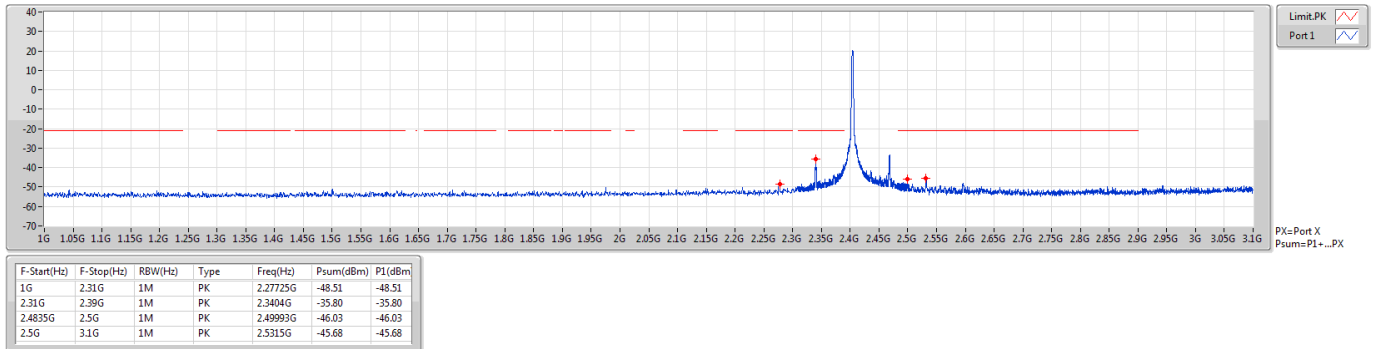




BT-LE(2Mbps)

CSE-DTS [PK]

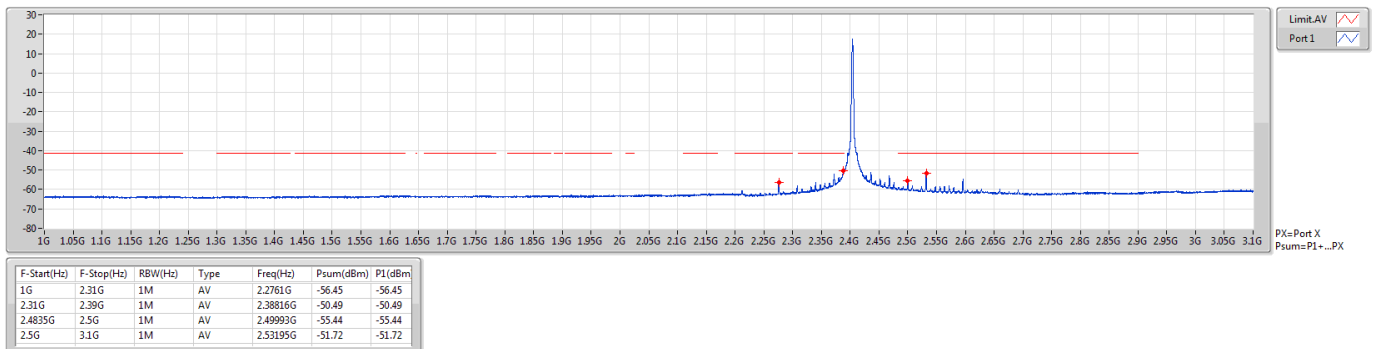
2404MHz



BT-LE(2Mbps)

CSE-DTS [AV]

2404MHz

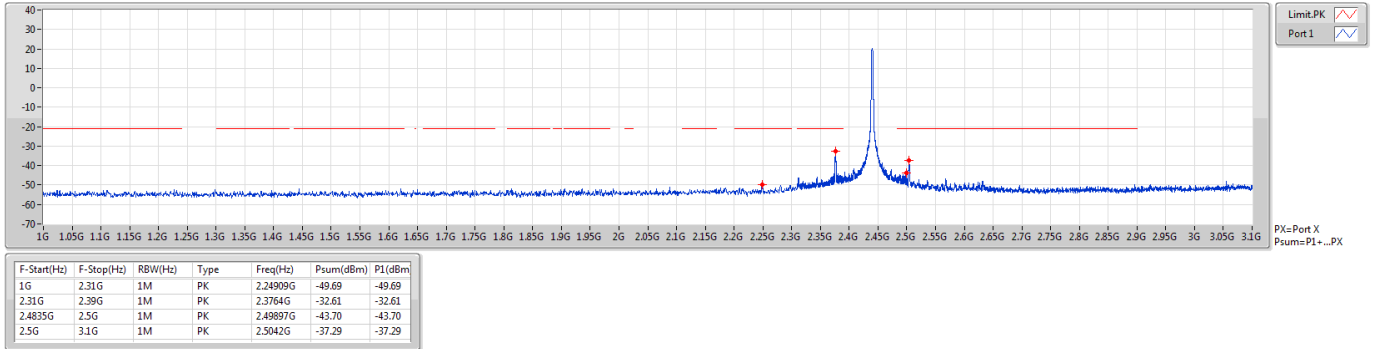




BT-LE(2Mbps)

CSE-DTS [PK]

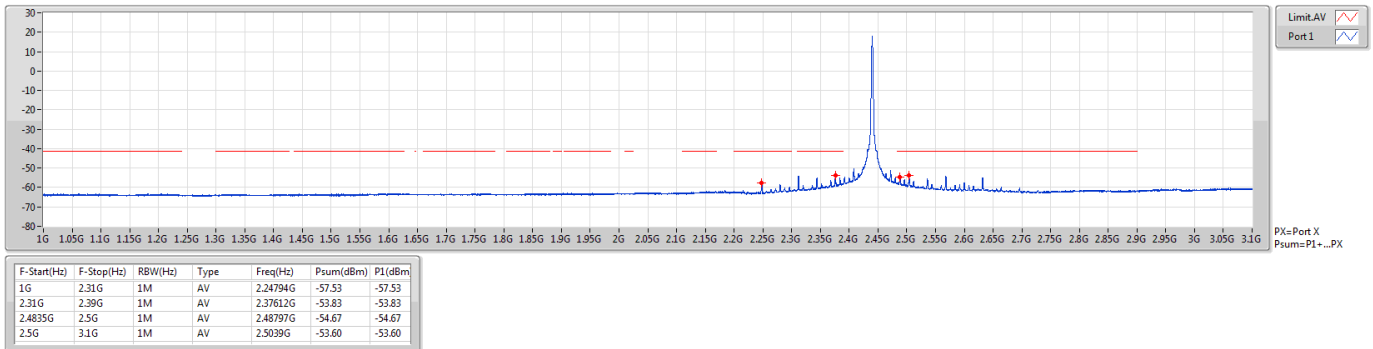
2440MHz



BT-LE(2Mbps)

CSE-DTS [AV]

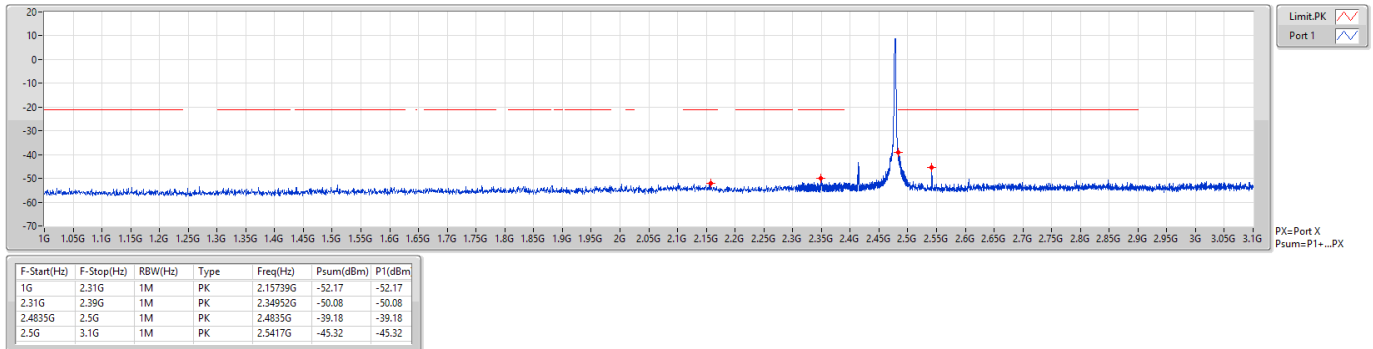
2440MHz



BT-LE(2Mbps)

CSE-DTS [PK]

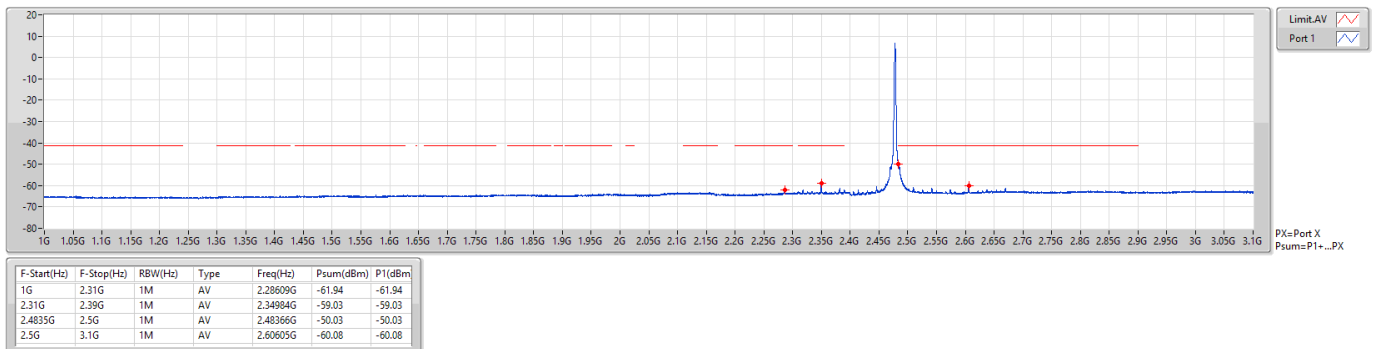
2478MHz



BT-LE(2Mbps)

CSE-DTS [AV]

2478MHz



Transmitter Conducted Unwanted Emissions (3.1GHz ~ 25GHz)

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(125kbps)	Pass	4G	5G	AV	4.804G	3.10	-57.79	-54.69	-41.20	-13.49
BT-LE(500kbps)	Pass	4G	5G	AV	4.87975G	3.10	-52.21	-49.11	-41.20	-7.91
BT-LE(1Mbps)	Pass	4G	5G	AV	4.87975G	3.10	-52.42	-49.32	-41.20	-8.12
BT-LE(2Mbps)	Pass	4G	5G	AV	4.879G	3.10	-53.96	-50.86	-41.20	-9.66

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(125kbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	3.1G	4G	AV	3.3565G	3.10	-74.87	-71.77	-41.20	-30.57
2402MHz	Pass	4G	5G	AV	4.804G	3.10	-57.79	-54.69	-41.20	-13.49
2402MHz	Pass	4G	5G	AV	4.80425G	3.10	-57.79	-54.69	-41.20	-13.49
2402MHz	Pass	5G	7G	AV	5.153G	3.10	-73.68	-70.58	-41.20	-29.38
2402MHz	Pass	7G	8G	AV	7.3605G	3.10	-73.04	-69.94	-41.20	-28.74
2402MHz	Pass	8G	25G	AV	19.61578G	3.10	-65.89	-62.79	-41.20	-21.59
2402MHz	Pass	3.1G	4G	PK	3.97233G	3.10	-64.54	-61.44	-21.20	-40.24
2402MHz	Pass	4G	5G	PK	4.8045G	3.10	-52.74	-49.64	-21.20	-28.44
2402MHz	Pass	4G	5G	PK	4.80475G	3.10	-52.72	-49.62	-21.20	-28.42
2402MHz	Pass	5G	7G	PK	5.442G	3.10	-62.88	-59.78	-21.20	-38.58
2402MHz	Pass	7G	8G	PK	7.58275G	3.10	-63.73	-60.63	-21.20	-39.43
2402MHz	Pass	8G	25G	PK	19.58816G	3.10	-56.05	-52.95	-21.20	-31.75
2440MHz	Pass	3.1G	4G	AV	3.35515G	3.10	-74.60	-71.50	-41.20	-30.30
2440MHz	Pass	4G	5G	AV	4.88G	3.10	-58.19	-55.09	-41.20	-13.89
2440MHz	Pass	5G	7G	AV	5.411G	3.10	-73.63	-70.53	-41.20	-29.33
2440MHz	Pass	7G	8G	AV	7.38975G	3.10	-73.16	-70.06	-41.20	-28.86
2440MHz	Pass	8G	25G	AV	19.65616G	3.10	-65.41	-62.31	-41.20	-21.11
2440MHz	Pass	3.1G	4G	PK	3.54573G	3.10	-63.41	-60.31	-21.20	-39.11
2440MHz	Pass	4G	5G	PK	4.8795G	3.10	-53.17	-50.07	-21.20	-28.87
2440MHz	Pass	5G	7G	PK	5.17G	3.10	-63.37	-60.27	-21.20	-39.07
2440MHz	Pass	7G	8G	PK	7.48575G	3.10	-62.73	-59.63	-21.20	-38.43
2440MHz	Pass	8G	25G	PK	17.94978G	3.10	-55.48	-52.38	-21.20	-31.18
2480MHz	Pass	3.1G	4G	AV	3.35245G	3.10	-74.87	-71.77	-41.20	-30.57
2480MHz	Pass	4G	5G	AV	4.96G	3.10	-59.13	-56.03	-41.20	-14.83
2480MHz	Pass	5G	7G	AV	5.391G	3.10	-73.65	-70.55	-41.20	-29.35
2480MHz	Pass	7G	8G	AV	7.36275G	3.10	-73.01	-69.91	-41.20	-28.71
2480MHz	Pass	8G	25G	AV	19.63863G	3.10	-65.65	-62.55	-41.20	-21.35
2480MHz	Pass	3.1G	4G	PK	3.97525G	3.10	-64.58	-61.48	-21.20	-40.28
2480MHz	Pass	4G	5G	PK	4.9595G	3.10	-54.37	-51.27	-21.20	-30.07
2480MHz	Pass	4G	5G	PK	4.96075G	3.10	-53.97	-50.87	-21.20	-29.67
2480MHz	Pass	5G	7G	PK	5.122G	3.10	-62.99	-59.89	-21.20	-38.69
2480MHz	Pass	7G	8G	PK	7.3495G	3.10	-63.11	-60.01	-21.20	-38.81
2480MHz	Pass	8G	25G	PK	17.96519G	3.10	-55.64	-52.54	-21.20	-31.34
BT-LE(500kbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	3.1G	4G	AV	3.98673G	3.10	-76.29	-73.19	-41.20	-31.99
2402MHz	Pass	4G	5G	AV	4.80375G	3.10	-52.77	-49.67	-41.20	-8.47
2402MHz	Pass	5G	7G	AV	5.0465G	3.10	-74.35	-71.25	-41.20	-30.05
2402MHz	Pass	7G	8G	AV	7.61275G	3.10	-73.36	-70.26	-41.20	-29.06
2402MHz	Pass	8G	25G	AV	19.90213G	3.10	-63.61	-60.51	-41.20	-19.31
2402MHz	Pass	3.1G	4G	PK	3.78895G	3.10	-65.31	-62.21	-21.20	-41.01
2402MHz	Pass	4G	5G	PK	4.80375G	3.10	-48.72	-45.62	-21.20	-24.42

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2402MHz	Pass	5G	7G	PK	5.2475G	3.10	-64.15	-61.05	-21.20	-39.85
2402MHz	Pass	7G	8G	PK	7.58525G	3.10	-63.25	-60.15	-21.20	-38.95
2402MHz	Pass	8G	25G	PK	19.85325G	3.10	-53.88	-50.78	-21.20	-29.58
2440MHz	Pass	3.1G	4G	AV	3.99663G	3.10	-76.41	-73.31	-41.20	-32.11
2440MHz	Pass	4G	5G	AV	4.87975G	3.10	-52.21	-49.11	-41.20	-7.91
2440MHz	Pass	5G	7G	AV	5.054G	3.10	-73.94	-70.84	-41.20	-29.64
2440MHz	Pass	7G	8G	AV	7.3205G	3.10	-68.95	-65.85	-41.20	-24.65
2440MHz	Pass	8G	25G	AV	19.87344G	3.10	-63.34	-60.24	-41.20	-19.04
2440MHz	Pass	3.1G	4G	PK	3.9604G	3.10	-66.26	-63.16	-21.20	-41.96
2440MHz	Pass	4G	5G	PK	4.87975G	3.10	-48.70	-45.60	-21.20	-24.40
2440MHz	Pass	5G	7G	PK	5.0725G	3.10	-64.00	-60.90	-21.20	-39.70
2440MHz	Pass	7G	8G	PK	7.3195G	3.10	-61.25	-58.15	-21.20	-36.95
2440MHz	Pass	8G	25G	PK	19.832G	3.10	-54.23	-51.13	-21.20	-29.93
2480MHz	Pass	3.1G	4G	AV	3.99415G	3.10	-75.93	-72.83	-41.20	-31.63
2480MHz	Pass	4G	5G	AV	4.96025G	3.10	-57.49	-54.39	-41.20	-13.19
2480MHz	Pass	5G	7G	AV	5.224G	3.10	-74.36	-71.26	-41.20	-30.06
2480MHz	Pass	7G	8G	AV	7.49275G	3.10	-71.42	-68.32	-41.20	-27.12
2480MHz	Pass	8G	25G	AV	19.13234G	3.10	-63.36	-60.26	-41.20	-19.06
2480MHz	Pass	3.1G	4G	PK	3.81348G	3.10	-65.39	-62.29	-21.20	-41.09
2480MHz	Pass	4G	5G	PK	4.9595G	3.10	-52.91	-49.81	-21.20	-28.61
2480MHz	Pass	5G	7G	PK	5.2395G	3.10	-63.84	-60.74	-21.20	-39.54
2480MHz	Pass	7G	8G	PK	7.4765G	3.10	-61.36	-58.26	-21.20	-37.06
2480MHz	Pass	8G	25G	PK	19.13394G	3.10	-53.67	-50.57	-21.20	-29.37
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	3.1G	4G	AV	3.98178G	3.10	-76.33	-73.23	-41.20	-32.03
2402MHz	Pass	4G	5G	AV	4.804G	3.10	-52.56	-49.46	-41.20	-8.26
2402MHz	Pass	5G	7G	AV	5.014G	3.10	-74.12	-71.02	-41.20	-29.82
2402MHz	Pass	7G	8G	AV	7.573G	3.10	-73.56	-70.46	-41.20	-29.26
2402MHz	Pass	8G	25G	AV	19.86866G	3.10	-63.38	-60.28	-41.20	-19.08
2402MHz	Pass	3.1G	4G	PK	3.82923G	3.10	-66.24	-63.14	-21.20	-41.94
2402MHz	Pass	4G	5G	PK	4.80375G	3.10	-48.75	-45.65	-21.20	-24.45
2402MHz	Pass	5G	7G	PK	5.231G	3.10	-63.82	-60.72	-21.20	-39.52
2402MHz	Pass	7G	8G	PK	7.58875G	3.10	-63.25	-60.15	-21.20	-38.95
2402MHz	Pass	8G	25G	PK	19.81075G	3.10	-54.07	-50.97	-21.20	-29.77
2440MHz	Pass	3.1G	4G	AV	3.98403G	3.10	-76.31	-73.21	-41.20	-32.01
2440MHz	Pass	4G	5G	AV	4.87975G	3.10	-52.42	-49.32	-41.20	-8.12
2440MHz	Pass	5G	7G	AV	5.0315G	3.10	-73.96	-70.86	-41.20	-29.66
2440MHz	Pass	7G	8G	AV	7.31925G	3.10	-68.72	-65.62	-41.20	-24.42
2440MHz	Pass	8G	25G	AV	19.90531G	3.10	-63.49	-60.39	-41.20	-19.19
2440MHz	Pass	3.1G	4G	PK	3.93835G	3.10	-65.95	-62.85	-21.20	-41.65
2440MHz	Pass	4G	5G	PK	4.87975G	3.10	-48.63	-45.53	-21.20	-24.33
2440MHz	Pass	5G	7G	PK	5.0435G	3.10	-64.28	-61.18	-21.20	-39.98

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2440MHz	Pass	7G	8G	PK	7.321G	3.10	-62.12	-59.02	-21.20	-37.82
2440MHz	Pass	8G	25G	PK	19.594G	3.10	-53.48	-50.38	-21.20	-29.18
2480MHz	Pass	3.1G	4G	AV	3.97818G	3.10	-76.24	-73.14	-41.20	-31.94
2480MHz	Pass	4G	5G	AV	4.96G	3.10	-57.11	-54.01	-41.20	-12.81
2480MHz	Pass	5G	7G	AV	5.2275G	3.10	-69.88	-66.78	-41.20	-25.58
2480MHz	Pass	7G	8G	AV	7.499G	3.10	-71.38	-68.28	-41.20	-27.08
2480MHz	Pass	8G	25G	AV	19.13394G	3.10	-63.58	-60.48	-41.20	-19.28
2480MHz	Pass	3.1G	4G	PK	3.69198G	3.10	-65.94	-62.84	-21.20	-41.64
2480MHz	Pass	4G	5G	PK	4.9595G	3.10	-53.11	-50.01	-21.20	-28.81
2480MHz	Pass	5G	7G	PK	5.0475G	3.10	-64.06	-60.96	-21.20	-39.76
2480MHz	Pass	7G	8G	PK	7.499G	3.10	-61.61	-58.51	-21.20	-37.31
2480MHz	Pass	8G	25G	PK	19.11269G	3.10	-53.94	-50.84	-21.20	-29.64
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2404MHz	Pass	3.1G	4G	AV	3.98245G	3.10	-76.11	-73.01	-41.20	-31.81
2404MHz	Pass	4G	5G	AV	4.80725G	3.10	-55.20	-52.10	-41.20	-10.90
2404MHz	Pass	4G	5G	AV	4.809G	3.10	-54.86	-51.76	-41.20	-10.56
2404MHz	Pass	5G	7G	AV	5.0405G	3.10	-74.14	-71.04	-41.20	-29.84
2404MHz	Pass	7G	8G	AV	7.614G	3.10	-73.78	-70.68	-41.20	-29.48
2404MHz	Pass	8G	25G	AV	19.86069G	3.10	-63.57	-60.47	-41.20	-19.27
2404MHz	Pass	3.1G	4G	PK	3.62628G	3.10	-66.08	-62.98	-21.20	-41.78
2404MHz	Pass	4G	5G	PK	4.807G	3.10	-48.92	-45.82	-21.20	-24.62
2404MHz	Pass	4G	5G	PK	4.80725G	3.10	-48.96	-45.86	-21.20	-24.66
2404MHz	Pass	5G	7G	PK	5.214G	3.10	-63.85	-60.75	-21.20	-39.55
2404MHz	Pass	7G	8G	PK	7.65325G	3.10	-62.36	-59.26	-21.20	-38.06
2404MHz	Pass	8G	25G	PK	19.82669G	3.10	-53.69	-50.59	-21.20	-29.39
2440MHz	Pass	3.1G	4G	AV	3.99393G	3.10	-76.44	-73.34	-41.20	-32.14
2440MHz	Pass	4G	5G	AV	4.879G	3.10	-53.96	-50.86	-41.20	-9.66
2440MHz	Pass	4G	5G	AV	4.87925G	3.10	-54.17	-51.07	-41.20	-9.87
2440MHz	Pass	5G	7G	AV	5.0445G	3.10	-74.14	-71.04	-41.20	-29.84
2440MHz	Pass	7G	8G	AV	7.3185G	3.10	-69.44	-66.34	-41.20	-25.14
2440MHz	Pass	8G	25G	AV	19.88141G	3.10	-63.17	-60.07	-41.20	-18.87
2440MHz	Pass	3.1G	4G	PK	3.64383G	3.10	-66.01	-62.91	-21.20	-41.71
2440MHz	Pass	4G	5G	PK	4.87925G	3.10	-48.96	-45.86	-21.20	-24.66
2440MHz	Pass	4G	5G	PK	4.88125G	3.10	-48.89	-45.79	-21.20	-24.59
2440MHz	Pass	5G	7G	PK	5.042G	3.10	-63.55	-60.45	-21.20	-39.25
2440MHz	Pass	7G	8G	PK	7.32125G	3.10	-62.45	-59.35	-21.20	-38.15
2440MHz	Pass	8G	25G	PK	19.89947G	3.10	-54.26	-51.16	-21.20	-29.96
2478MHz	Pass	3.1G	4G	AV	3.99933G	3.10	-76.31	-73.21	-41.20	-32.01
2478MHz	Pass	4G	5G	AV	4.95675G	3.10	-67.28	-64.18	-41.20	-22.98
2478MHz	Pass	5G	7G	AV	5.1845G	3.10	-74.23	-71.13	-41.20	-29.93
2478MHz	Pass	7G	8G	AV	7.4965G	3.10	-71.26	-68.16	-41.20	-26.96
2478MHz	Pass	8G	25G	AV	19.13659G	3.10	-63.48	-60.38	-41.20	-19.18



Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2478MHz	Pass	3.1G	4G	PK	3.97728G	3.10	-64.87	-61.77	-21.20	-40.57
2478MHz	Pass	4G	5G	PK	4.95525G	3.10	-60.13	-57.03	-21.20	-35.83
2478MHz	Pass	4G	5G	PK	4.957G	3.10	-59.99	-56.89	-21.20	-35.69
2478MHz	Pass	5G	7G	PK	5.425G	3.10	-63.75	-60.65	-21.20	-39.45
2478MHz	Pass	7G	8G	PK	7.43925G	3.10	-60.09	-56.99	-21.20	-35.79
2478MHz	Pass	8G	25G	PK	19.14084G	3.10	-53.55	-50.45	-21.20	-29.25

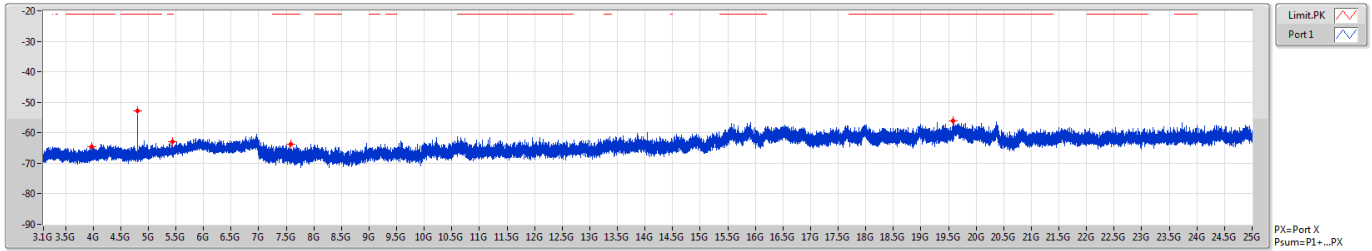
DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX



BT-LE(125kbps)

CSE-DTS [PK]

2402MHz

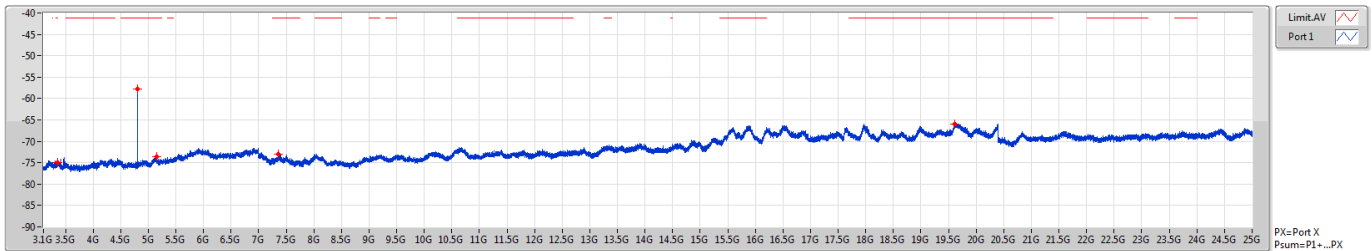


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	PK	3.97233G	-64.54	-64.54
4G	5G	1M	PK	4.8045G	-52.74	-52.74
4G	5G	1M	PK	4.80475G	-52.72	-52.72
5G	7G	1M	PK	5.442G	-62.88	-62.88
7G	8G	1M	PK	7.58275G	-63.73	-63.73
8G	25G	1M	PK	19.58816G	-56.05	-56.05

BT-LE(125kbps)

CSE-DTS [AV]

2402MHz



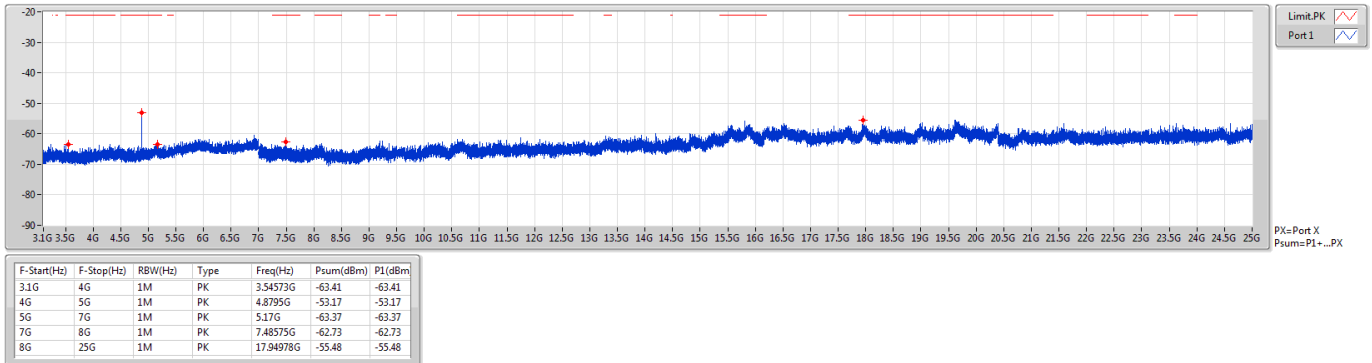
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	AV	3.3505G	-74.87	-74.87
4G	5G	1M	AV	4.804G	-57.79	-57.79
4G	5G	1M	AV	4.80425G	-57.79	-57.79
5G	7G	1M	AV	5.153G	-73.68	-73.68
7G	8G	1M	AV	7.3605G	-73.04	-73.04
8G	25G	1M	AV	19.61578G	-65.89	-65.89



BT-LE(125kbps)

CSE-DTS [PK]

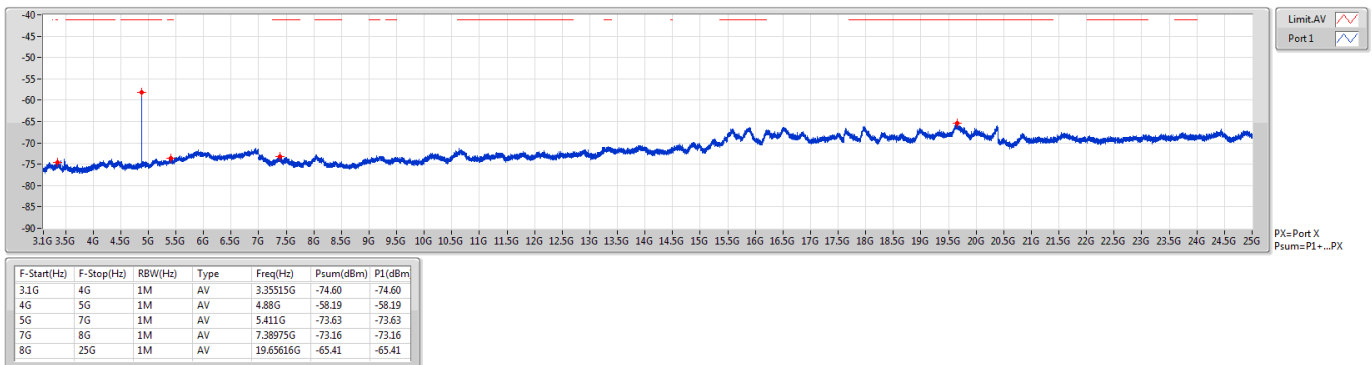
2440MHz



BT-LE(125kbps)

CSE-DTS [AV]

2440MHz

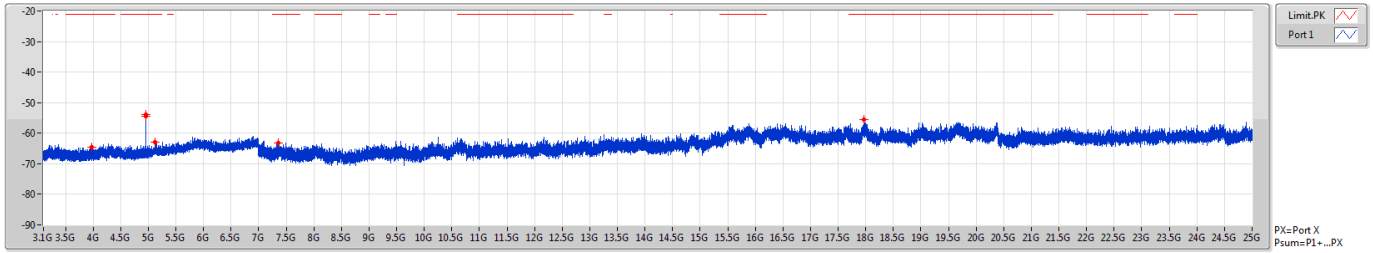




BT-LE(125kbps)

CSE-DTS [PK]

2480MHz

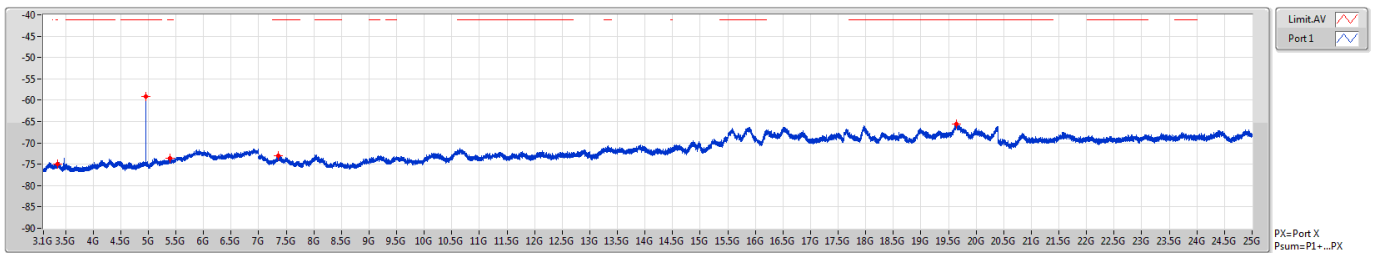


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	PK	3.97525G	-64.58	-64.58
4G	5G	1M	PK	4.9595G	-54.37	-54.37
4G	5G	1M	PK	4.96075G	-53.97	-53.97
5G	7G	1M	PK	5.122G	-62.99	-62.99
7G	8G	1M	PK	7.3495G	-63.11	-63.11
8G	25G	1M	PK	17.96519G	-55.64	-55.64

BT-LE(125kbps)

CSE-DTS [AV]

2480MHz



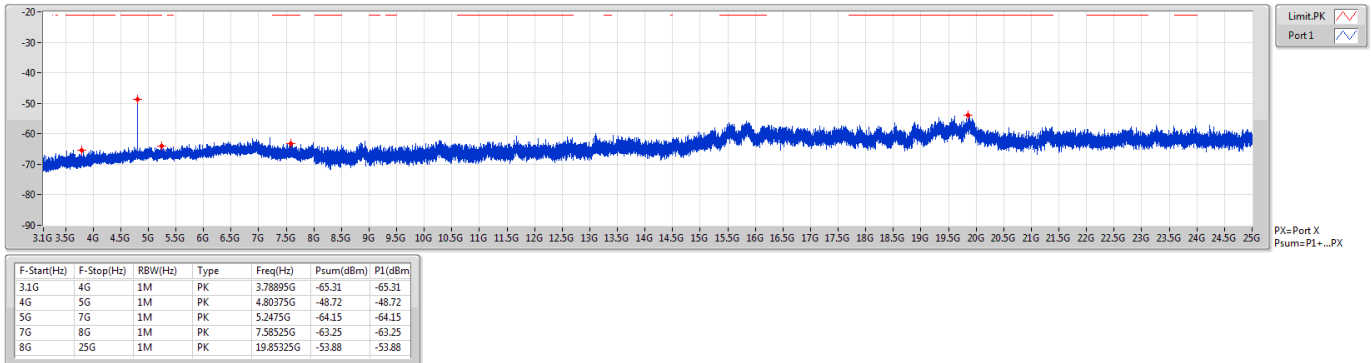
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	AV	3.35345G	-74.87	-74.87
4G	5G	1M	AV	4.96G	-59.13	-59.13
5G	7G	1M	AV	5.391G	-73.65	-73.65
7G	8G	1M	AV	7.36275G	-73.01	-73.01
8G	25G	1M	AV	19.63863G	-65.65	-65.65



BT-LE(500kbps)

CSE-DTS [PK]

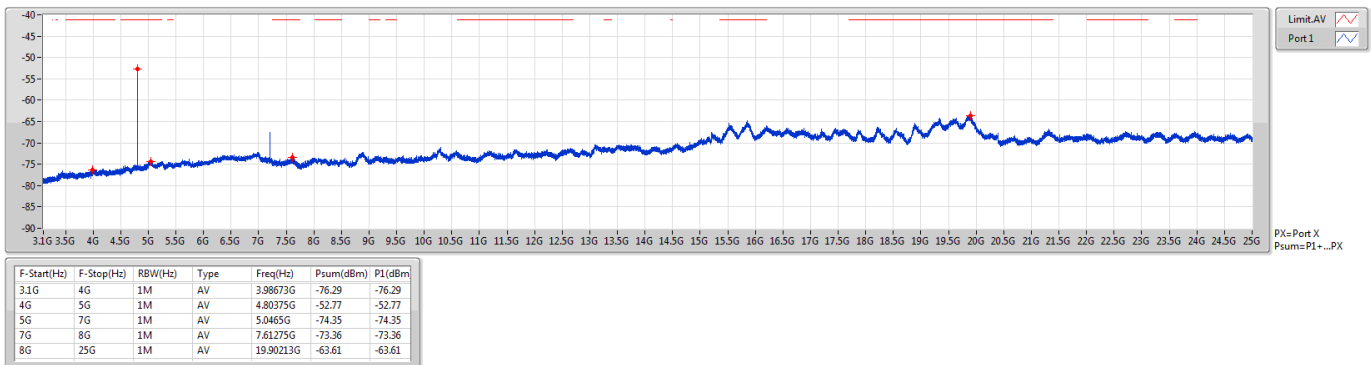
2402MHz



BT-LE(500kbps)

CSE-DTS [AV]

2402MHz

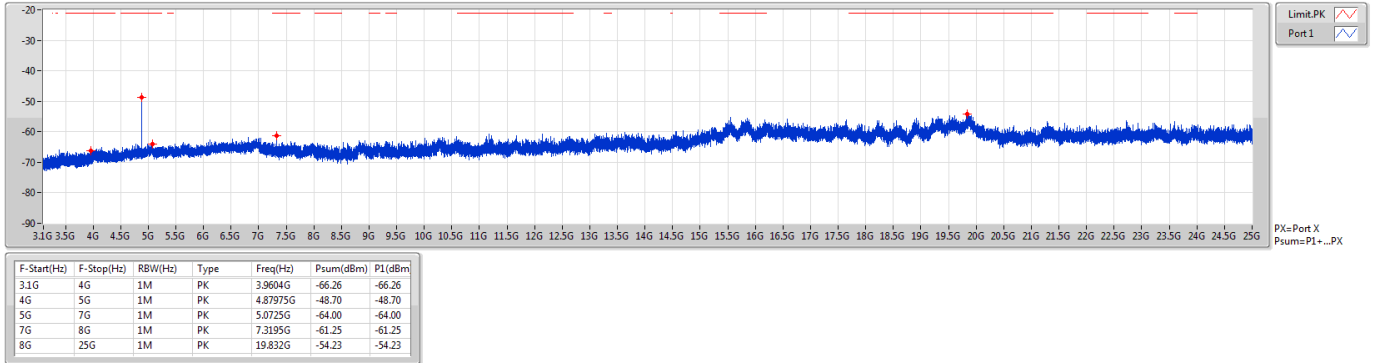




BT-LE(500kbps)

CSE-DTS [PK]

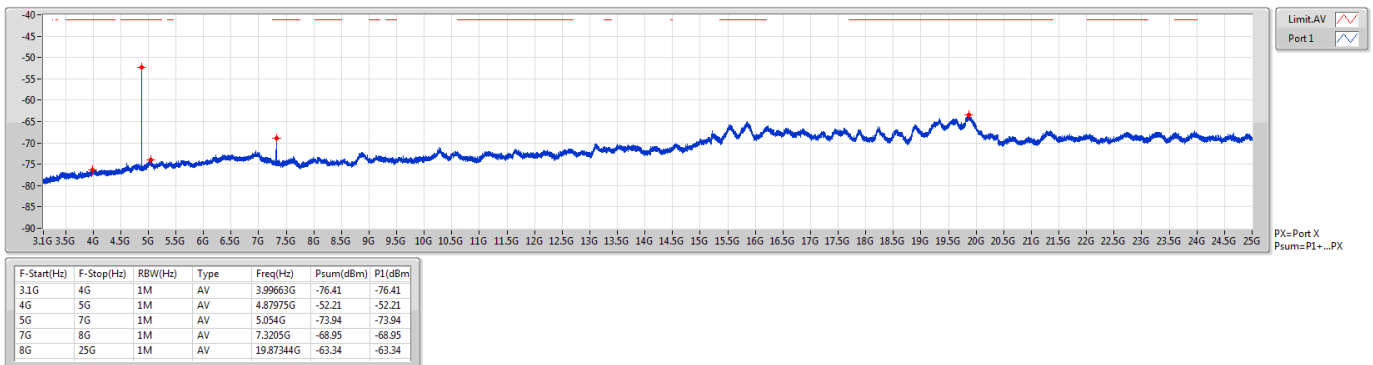
2440MHz



BT-LE(500kbps)

CSE-DTS [AV]

2440MHz

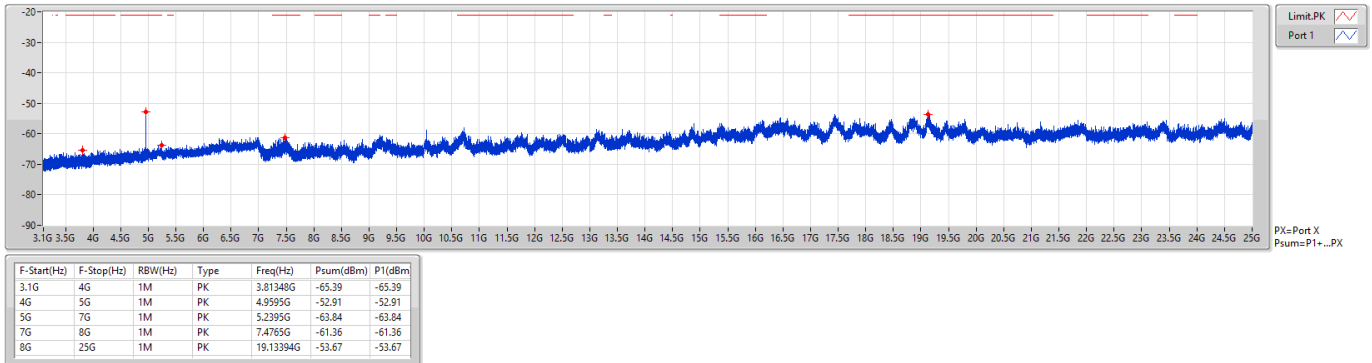




BT-LE(500kbps)

CSE-DTS [PK]

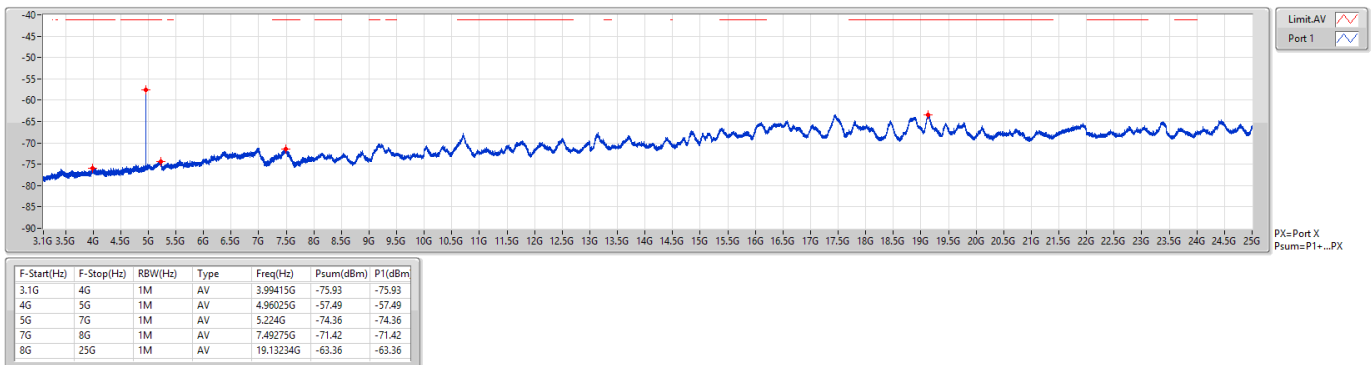
2480MHz



BT-LE(500kbps)

CSE-DTS [AV]

2480MHz

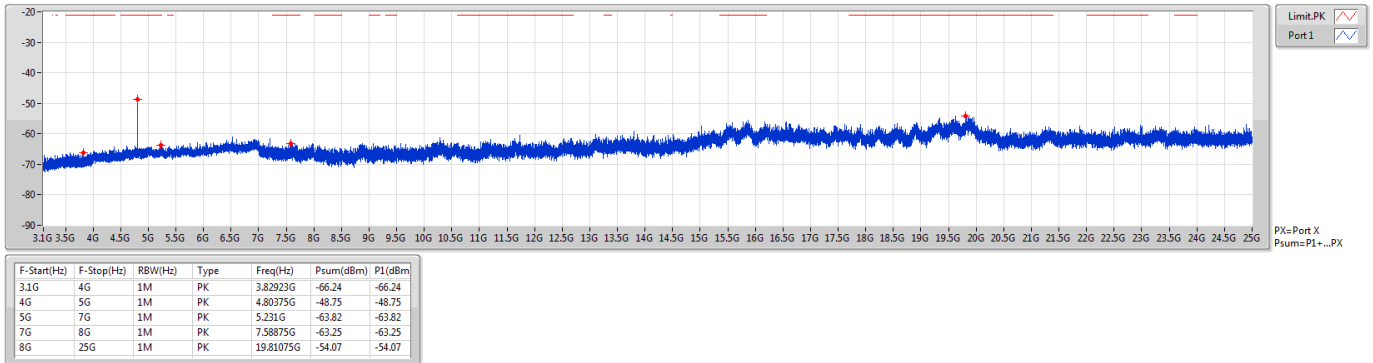




BT-LE(1Mbps)

CSE-DTS [PK]

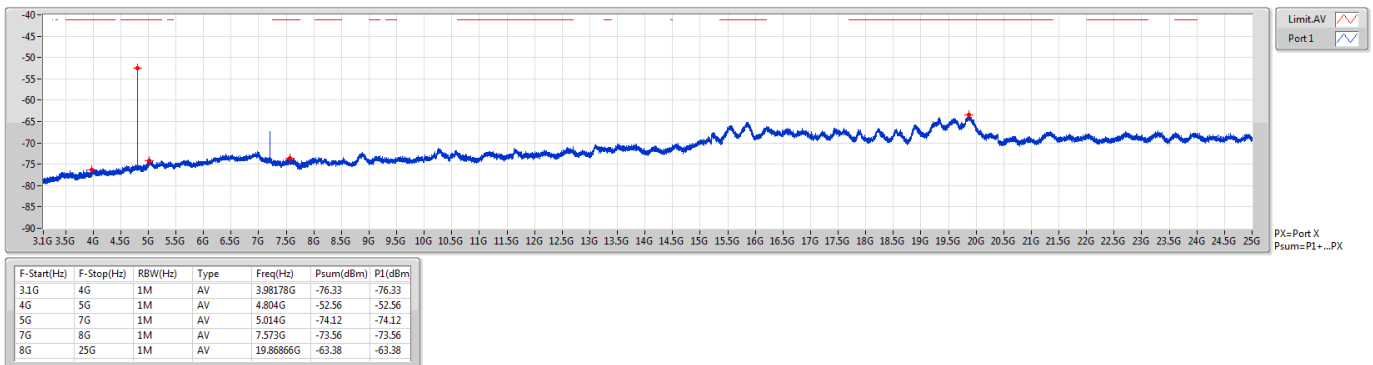
2402MHz



BT-LE(1Mbps)

CSE-DTS [AV]

2402MHz

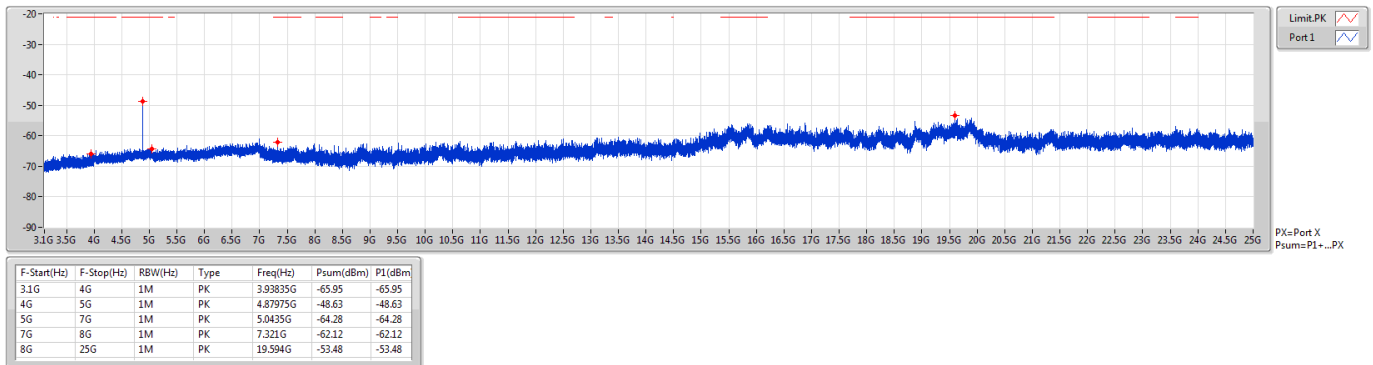




BT-LE(1Mbps)

CSE-DTS [PK]

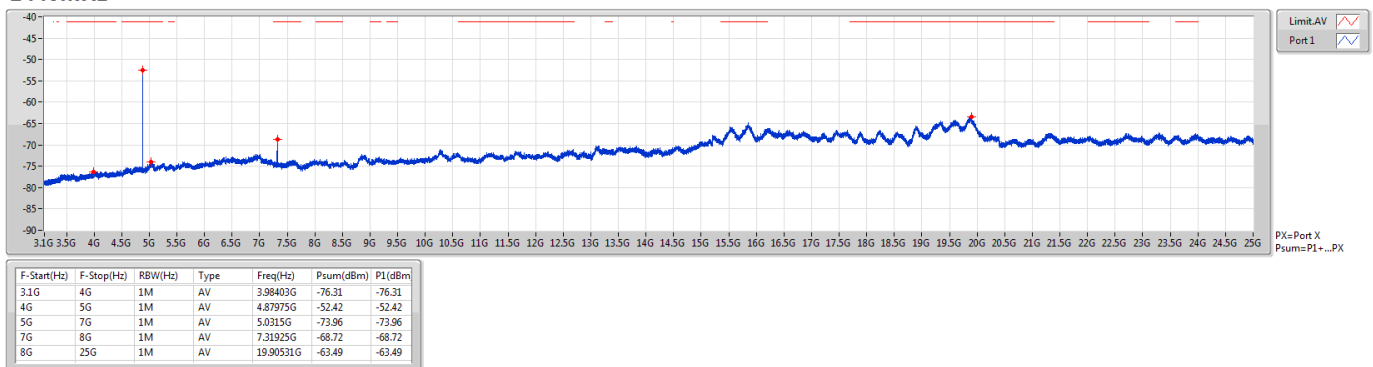
2440MHz



BT-LE(1Mbps)

CSE-DTS [AV]

2440MHz

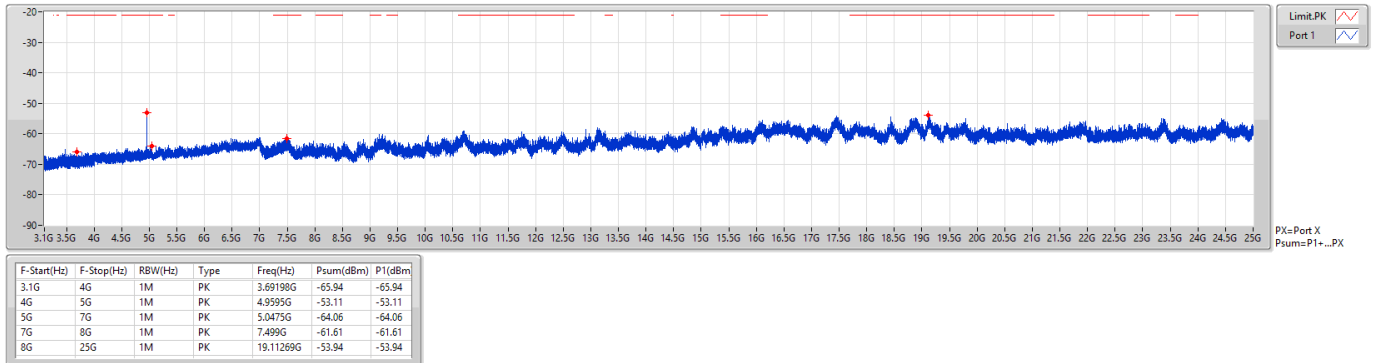




BT-LE(1Mbps)

CSE-DTS [PK]

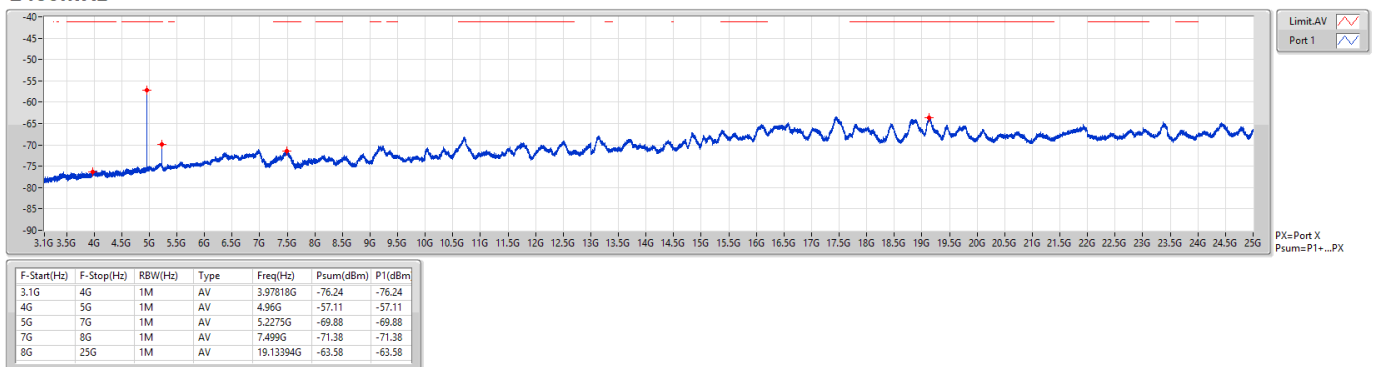
2480MHz



BT-LE(1Mbps)

CSE-DTS [AV]

2480MHz

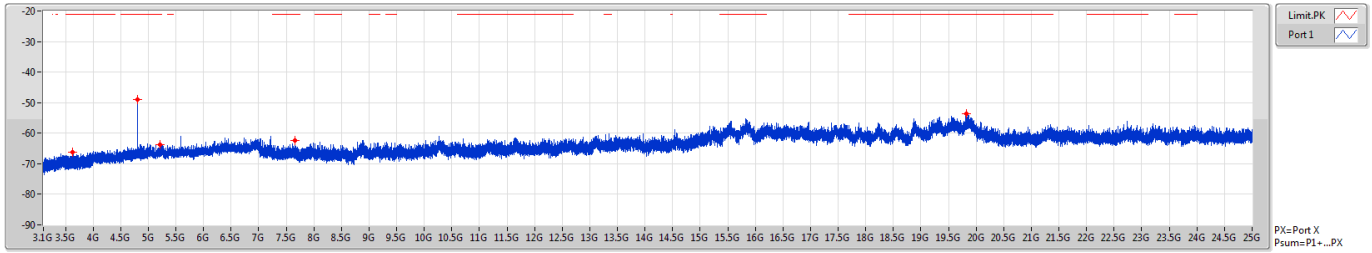




BT-LE(2Mbps)

CSE-DTS [PK]

2404MHz

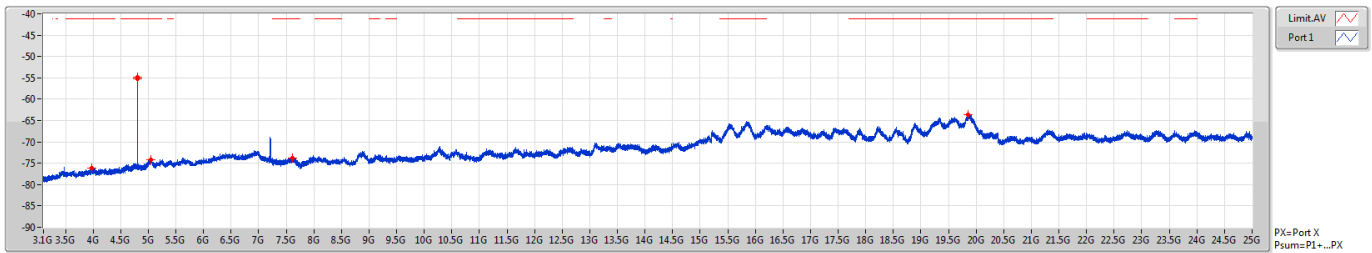


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	PK	3.62628G	-66.08	-66.08
4G	5G	1M	PK	4.807G	-48.92	-48.92
4G	5G	1M	PK	4.80725G	-48.96	-48.96
5G	7G	1M	PK	5.214G	-63.85	-63.85
7G	8G	1M	PK	7.65325G	-62.36	-62.36
8G	25G	1M	PK	19.82669G	-53.69	-53.69

BT-LE(2Mbps)

CSE-DTS [AV]

2404MHz



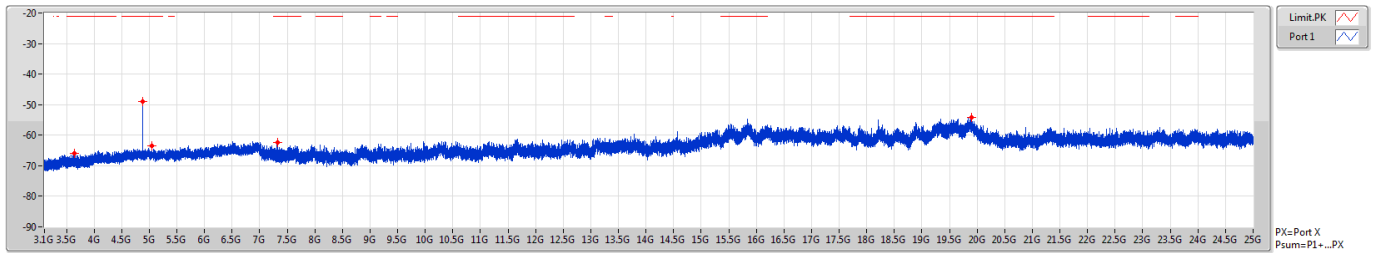
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	AV	3.98245G	-76.11	-76.11
4G	5G	1M	AV	4.80725G	-55.20	-55.20
4G	5G	1M	AV	4.809G	-54.86	-54.86
5G	7G	1M	AV	5.0405G	-74.14	-74.14
7G	8G	1M	AV	7.614G	-73.78	-73.78
8G	25G	1M	AV	19.86069G	-63.57	-63.57



BT-LE(2Mbps)

CSE-DTS [PK]

2440MHz

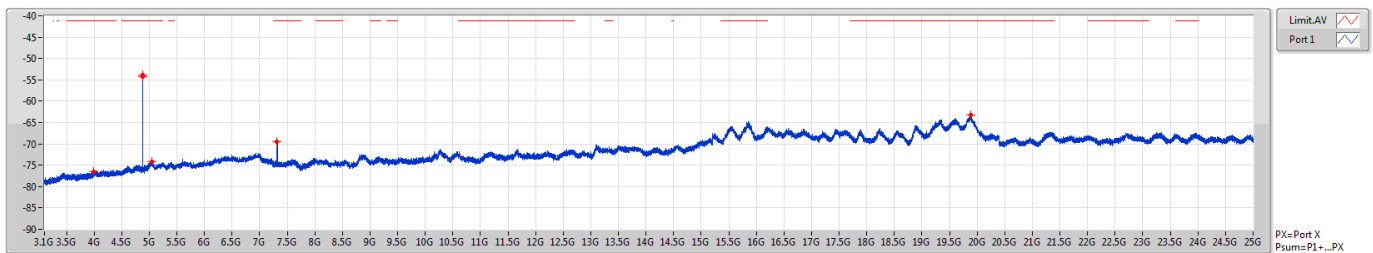


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	PK	3.64383G	-66.01	-66.01
4G	5G	1M	PK	4.87925G	-48.96	-48.96
4G	5G	1M	PK	4.88125G	-48.89	-48.89
5G	7G	1M	PK	5.042G	-63.55	-63.55
7G	8G	1M	PK	7.32125G	-62.45	-62.45
8G	25G	1M	PK	19.89947G	-54.26	-54.26

BT-LE(2Mbps)

CSE-DTS [AV]

2440MHz



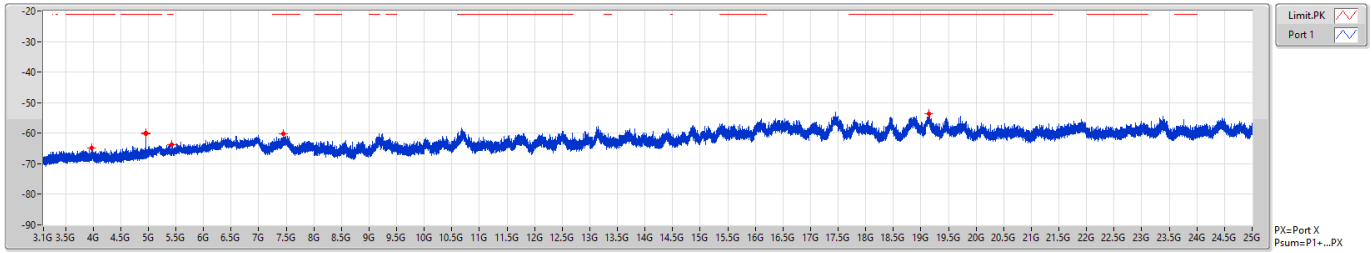
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	AV	3.99393G	-76.44	-76.44
4G	5G	1M	AV	4.879G	-53.96	-53.96
4G	5G	1M	AV	4.87925G	-54.17	-54.17
5G	7G	1M	AV	5.0445G	-74.14	-74.14
7G	8G	1M	AV	7.3185G	-69.44	-69.44
8G	25G	1M	AV	19.88141G	-63.17	-63.17



BT-LE(2Mbps)

CSE-DTS [PK]

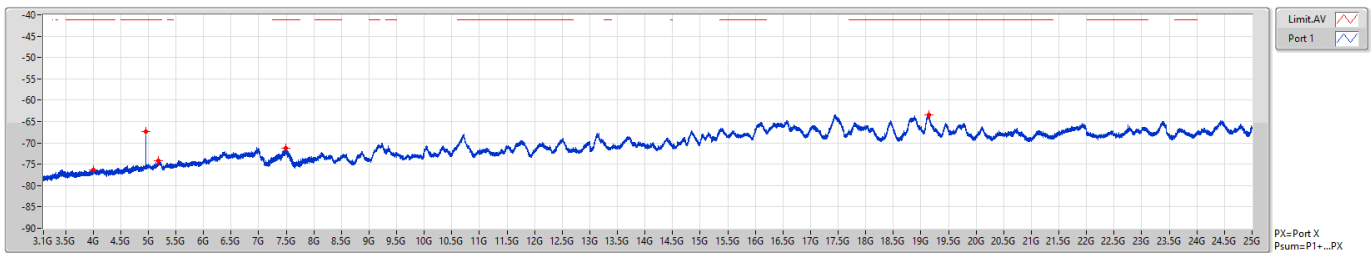
2478MHz



BT-LE(2Mbps)

CSE-DTS [AV]

2478MHz





External antenna

Unwanted Emissions (Above 1GHz)

Modulation	BT-LE (500kbps)		Test Freq. (MHz)		2480		
Polarization	Horizontal						
Test By		:Sean Yu		Temperature(°C):25		Humidity(%):61	
Level (dBUV/m) <							



Modulation	BT-LE (500kbps)		Test Freq. (MHz)		2480		
Polarization	Vertical						
Test By		:Sean Yu		Temperature(°C):25		Humidity(%):61	
Level (dBuV/m)							



Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2480
Polarization	Horizontal		
Test By :Sean Yu Temperature(°C):25 Humidity(%):61			
Level (dBuV/m) <			



Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2480
Polarization	Vertical		
Test By :Sean Yu Temperature(°C):25 Humidity(%):61			
Level (dBuV/m)			



Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2478
Polarization	Horizontal		
Test By :Sean Yu Temperature(°C):25 Humidity(%):61			
Level (dBuV/m) <			

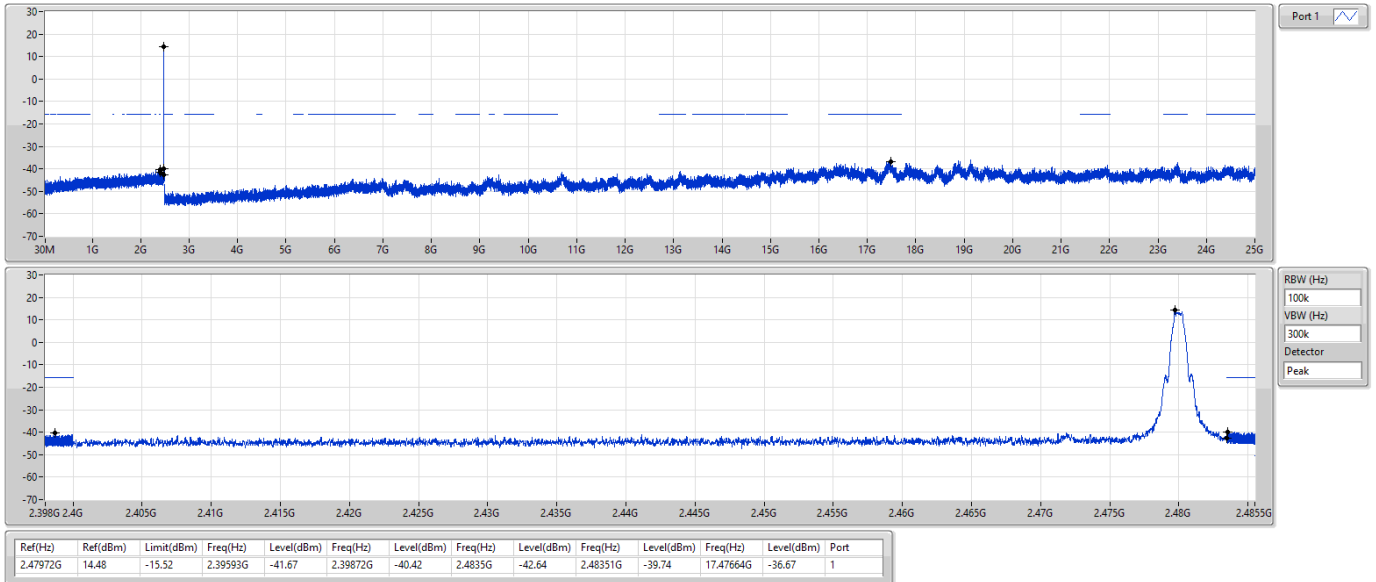


Modulation	BT-LE (2Mbps)		Test Freq. (MHz)		2478		
Polarization	Vertical						
Test By		:Sean Yu		Temperature(°C):25		Humidity(%):61	
Level (dBuV/m) <							

BT-LE(500kbps)

CSEndB-DTS

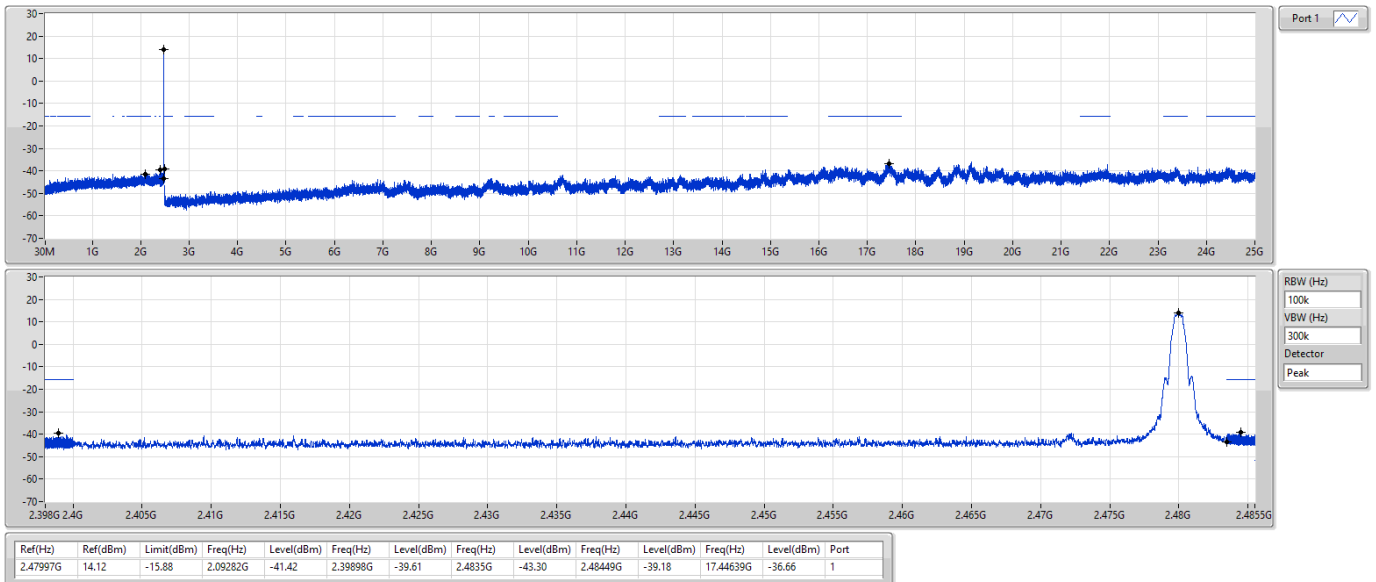
2480MHz



BT-LE(1Mbps)

CSEndB-DTS

2480MHz

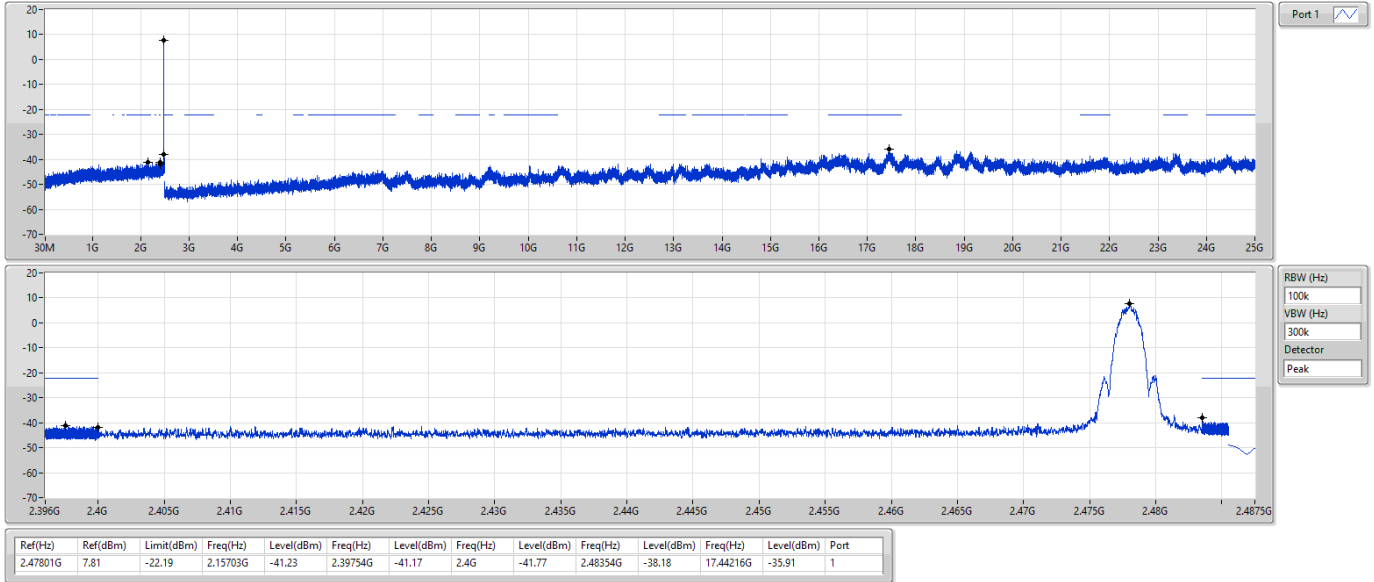




BT-LE(2Mbps)

CSEndB-DTS

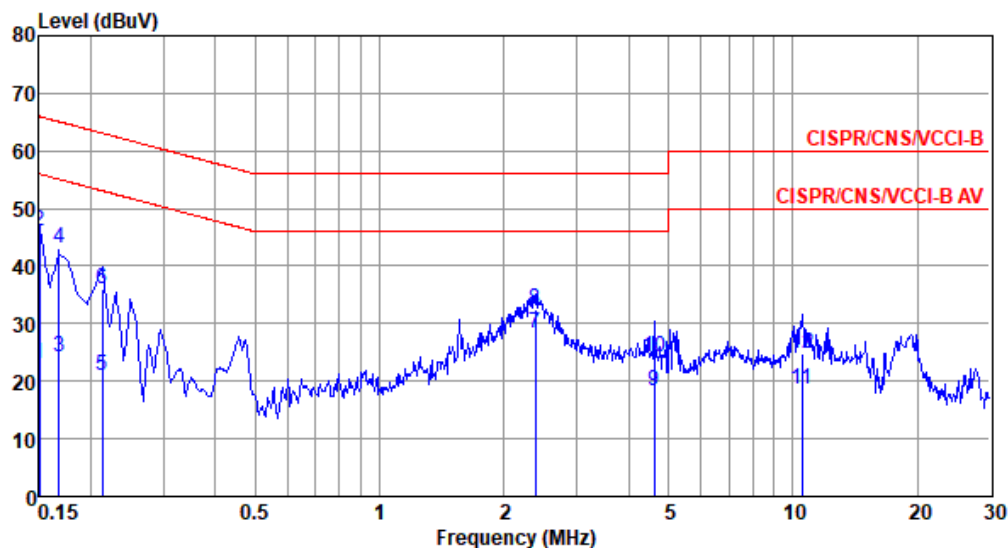
2478MHz





Modulation	BT-LE(1Mbps)	Test Freq. (MHz)	2440
Power Phase	Line		

Test by : Joe Liao Temperature: 22°C Humidity: 66%



	Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark
	MHz	dBuV	Line	Limit	Level	dB	loss	dB	
			dBuV	dB	dBuV		dB		
1	0.150	22.98	56.00	-33.02	13.24	9.68	0.06	0.00	Average
2	0.150	46.08	66.00	-19.92	36.34	9.68	0.06	0.00	QP
3	0.168	24.32	55.08	-30.76	14.58	9.68	0.06	0.00	Average
4	0.168	43.21	65.08	-21.87	33.47	9.68	0.06	0.00	QP
5	0.213	20.97	53.10	-32.13	11.23	9.68	0.06	0.00	Average
6	0.213	35.96	63.10	-27.14	26.22	9.68	0.06	0.00	QP
7*	2.384	28.19	46.00	-17.81	18.36	9.69	0.14	0.00	Average
8	2.384	32.40	56.00	-23.60	22.57	9.69	0.14	0.00	QP
9	4.622	18.19	46.00	-27.81	8.27	9.71	0.21	0.00	Average
10	4.622	24.13	56.00	-31.87	14.21	9.71	0.21	0.00	QP
11	10.508	18.66	50.00	-31.34	8.55	9.74	0.37	0.00	Average
12	10.508	24.76	60.00	-35.24	14.65	9.74	0.37	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).

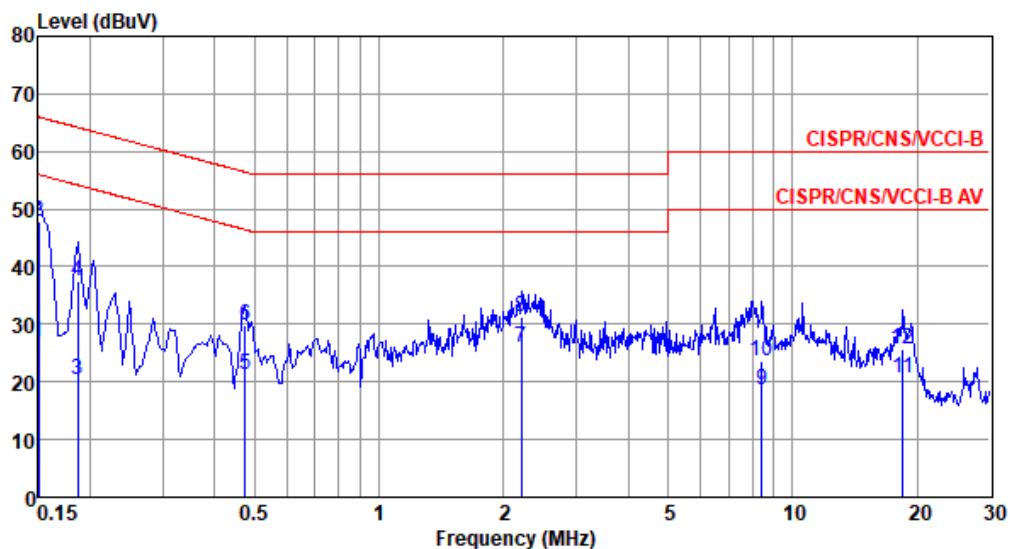


Modulation	BT-LE(1Mbps)	Test Freq. (MHz)	2440
Power Phase	Neutral		

Test by : Joe Liao

Temperature: 22°C

Humidity: 66%



	Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark
	MHz	dBuV	Line	Limit	Level	dB	loss	dB	
1	0.150	26.76	56.00	-29.24	17.09	9.61	0.06	0.00	Average
2*	0.150	47.78	66.00	-18.22	38.11	9.61	0.06	0.00	QP
3	0.186	20.50	54.20	-33.70	10.83	9.61	0.06	0.00	Average
4	0.186	37.38	64.20	-26.82	27.71	9.61	0.06	0.00	QP
5	0.474	21.19	46.45	-25.26	11.51	9.61	0.07	0.00	Average
6	0.474	29.88	56.45	-26.57	20.20	9.61	0.07	0.00	QP
7	2.213	25.86	46.00	-20.14	16.10	9.62	0.14	0.00	Average
8	2.213	31.33	56.00	-24.67	21.57	9.62	0.14	0.00	QP
9	8.412	18.73	50.00	-31.27	8.72	9.68	0.33	0.00	Average
10	8.412	23.70	60.00	-36.30	13.69	9.68	0.33	0.00	QP
11	18.524	20.69	50.00	-29.31	10.42	9.78	0.49	0.00	Average
12	18.524	25.76	60.00	-34.24	15.49	9.78	0.49	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).

Internal antenna

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)	677.536k	1.082M	1M08F1D	637.681k	1.075M
BT-LE(500kbps)	702.899k	1.064M	1M06F1D	688.406k	1.056M
BT-LE(1Mbps)	717.391k	1.075M	1M08F1D	699.275k	1.067M
BT-LE(2Mbps)	1.21M	2.164M	2M16F1D	1.181M	2.142M

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

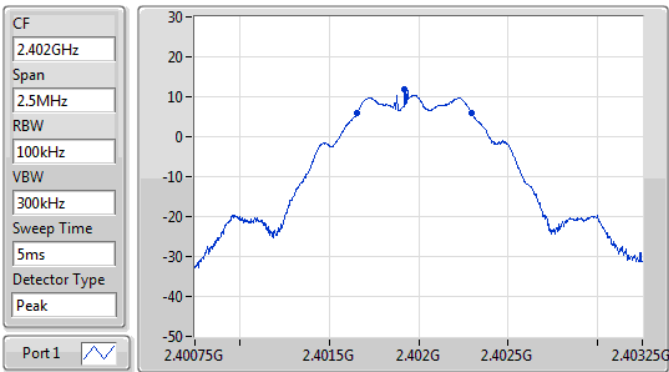
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	500k	637.681k	1.075M
2440MHz	Pass	500k	677.536k	1.075M
2480MHz	Pass	500k	670.29k	1.082M
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	500k	702.899k	1.064M
2440MHz	Pass	500k	695.652k	1.056M
2480MHz	Pass	500k	688.406k	1.056M
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	717.391k	1.075M
2440MHz	Pass	500k	699.275k	1.071M
2480MHz	Pass	500k	710.145k	1.067M
BT-LE(2Mbps)	-	-	-	-
2404MHz	Pass	500k	1.21M	2.142M
2440MHz	Pass	500k	1.21M	2.149M
2478MHz	Pass	500k	1.181M	2.164M

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

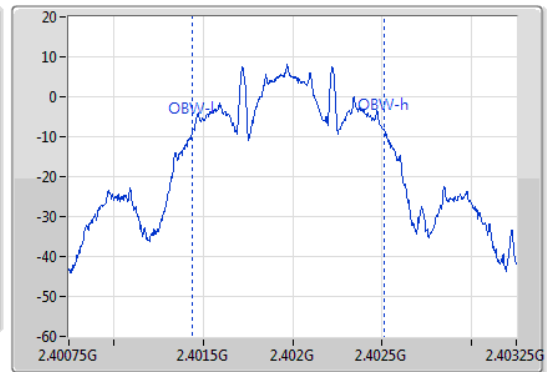
BT-LE(125kbps)

2402MHz



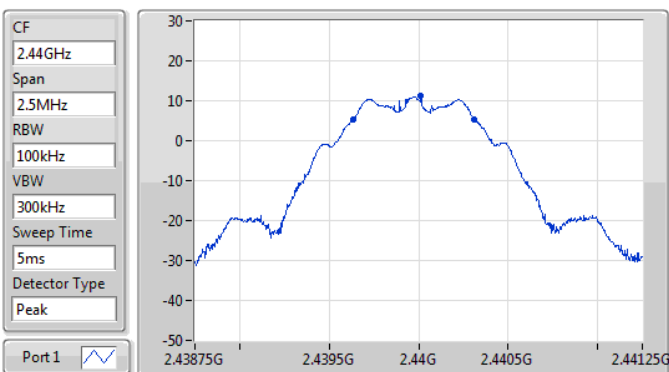
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
637.681k	2.401656G	2.402293G	1.075M	2.401439G	2.402514G	500k	1

EBW-DTS



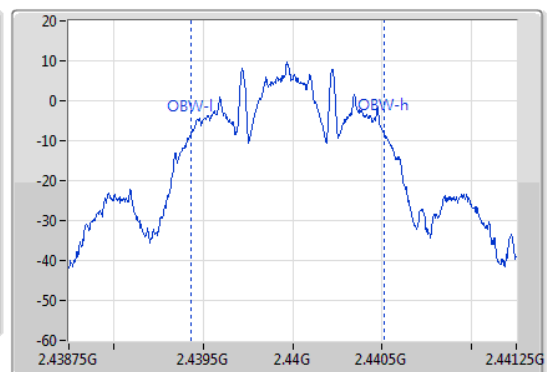
BT-LE(125kbps)

2440MHz



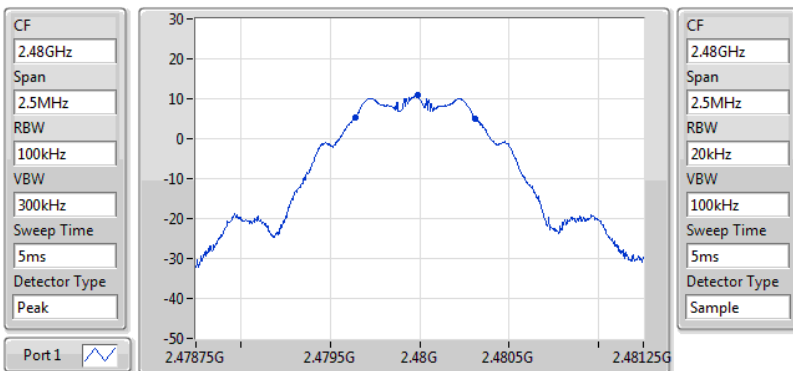
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
677.536k	2.439634G	2.440312G	1.075M	2.439436G	2.44051G	500k	1

EBW-DTS



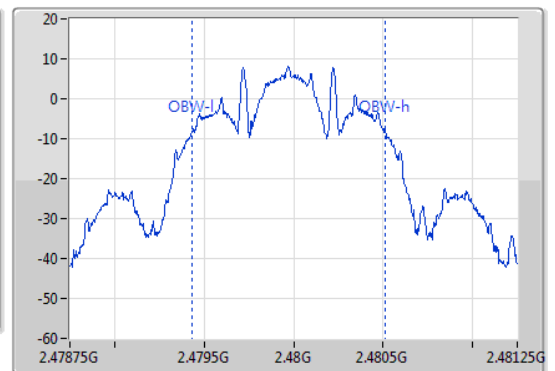
BT-LE(125kbps)

2480MHz



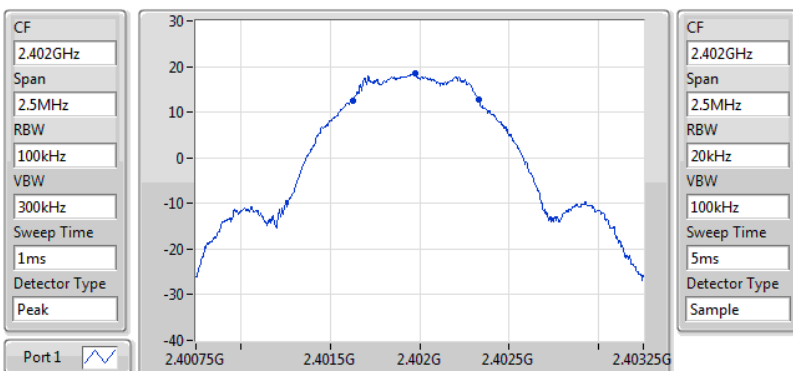
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
670.29k	2.479641G	2.480312G	1.082M	2.479432G	2.480514G	500k	1

EBW-DTS



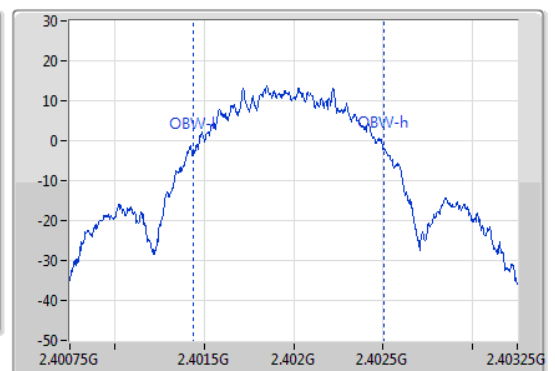
BT-LE(500kbps)

2402MHz



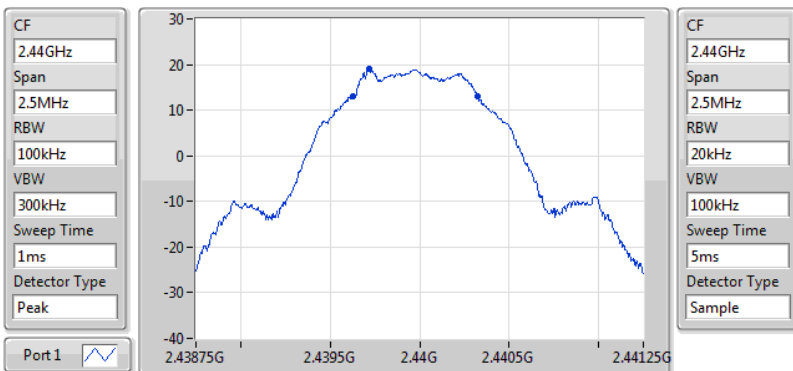
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
702.899k	2.40163G	2.402333G	1.064M	2.401439G	2.402503G	500k	1

EBW-DTS



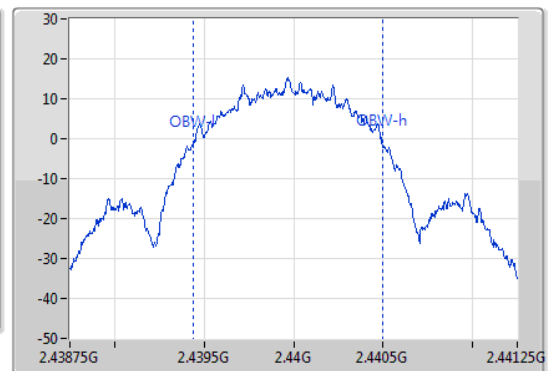
BT-LE(500kbps)

2440MHz



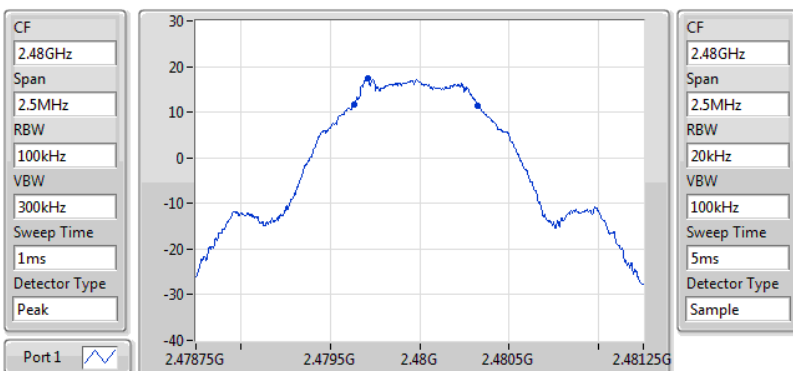
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
695.652k	2.43963G	2.440326G	1.056M	2.439439G	2.440496G	500k	1

EBW-DTS



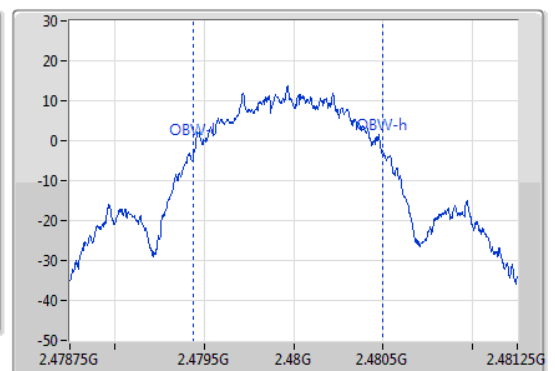
BT-LE(500kbps)

2480MHz



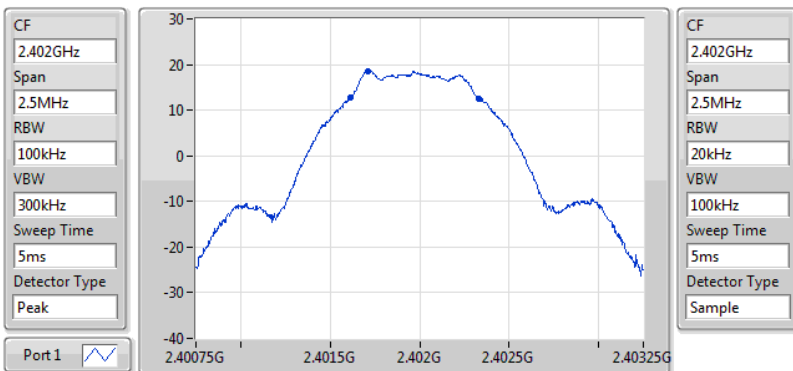
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
688.406k	2.479638G	2.480326G	1.056M	2.479443G	2.480499G	500k	1

EBW-DTS



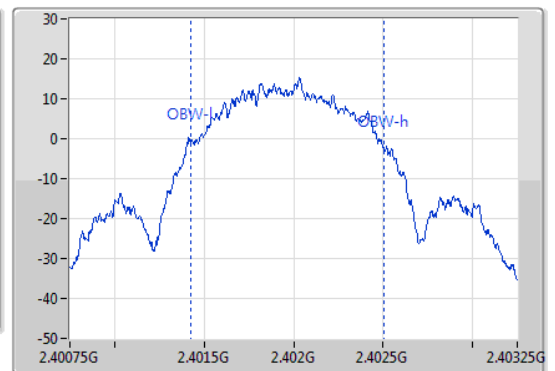
BT-LE(1Mbps)

2402MHz



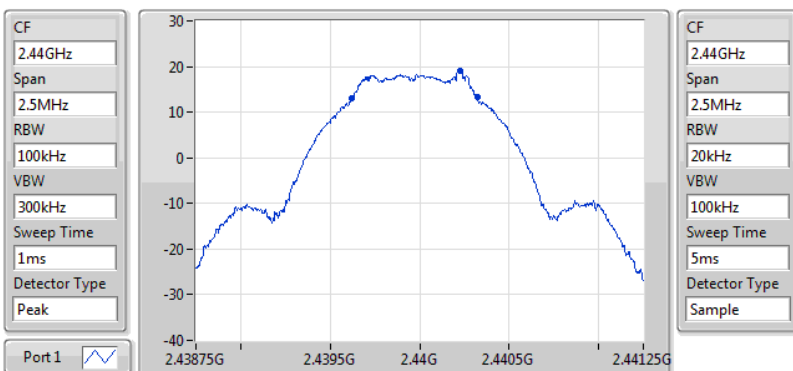
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
717.391k	2.401612G	2.40233G	1.075M	2.401428G	2.402503G	500k	1

EBW-DTS



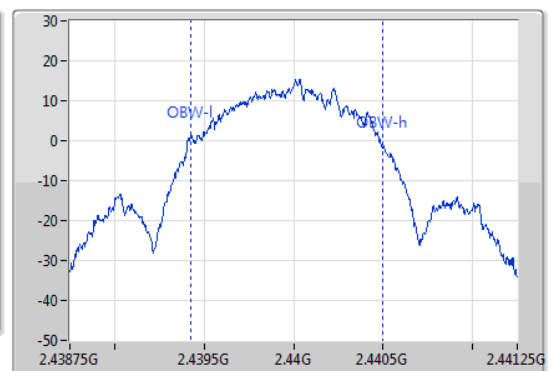
BT-LE(1Mbps)

2440MHz



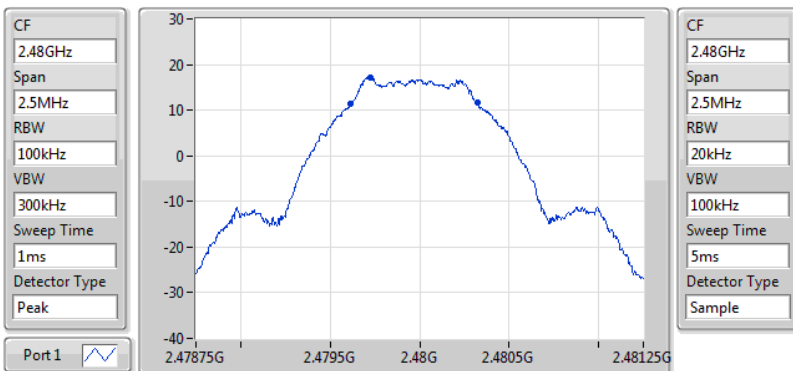
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
699.275k	2.439623G	2.440322G	1.071M	2.439425G	2.440496G	500k	1

EBW-DTS



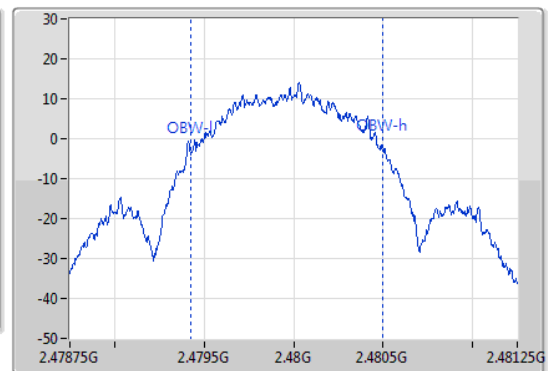
BT-LE(1Mbps)

2480MHz



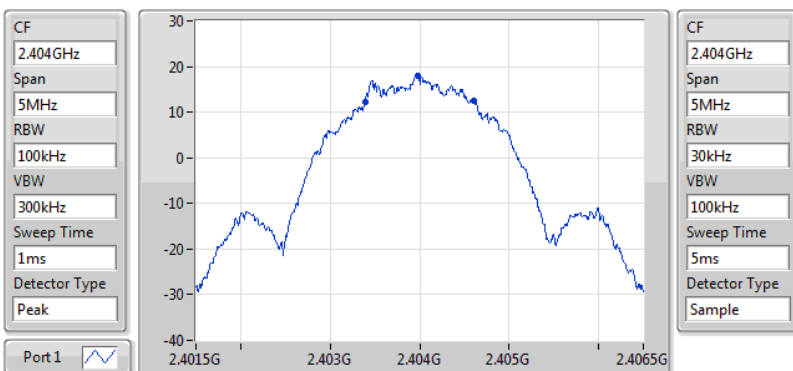
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
710.145k	2.479616G	2.480326G	1.067M	2.479428G	2.480496G	500k	1

EBW-DTS



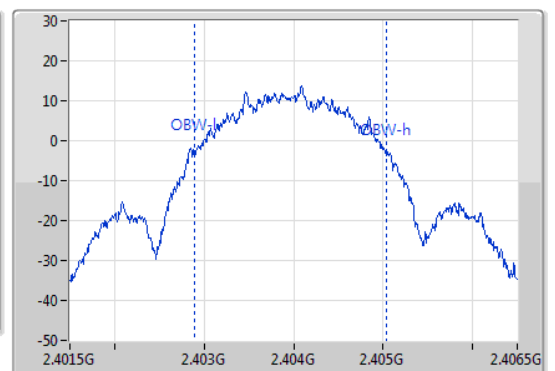
BT-LE(2Mbps)

2404MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.21M	2.403391G	2.404601G	2.142M	2.402893G	2.405035G	500k	1

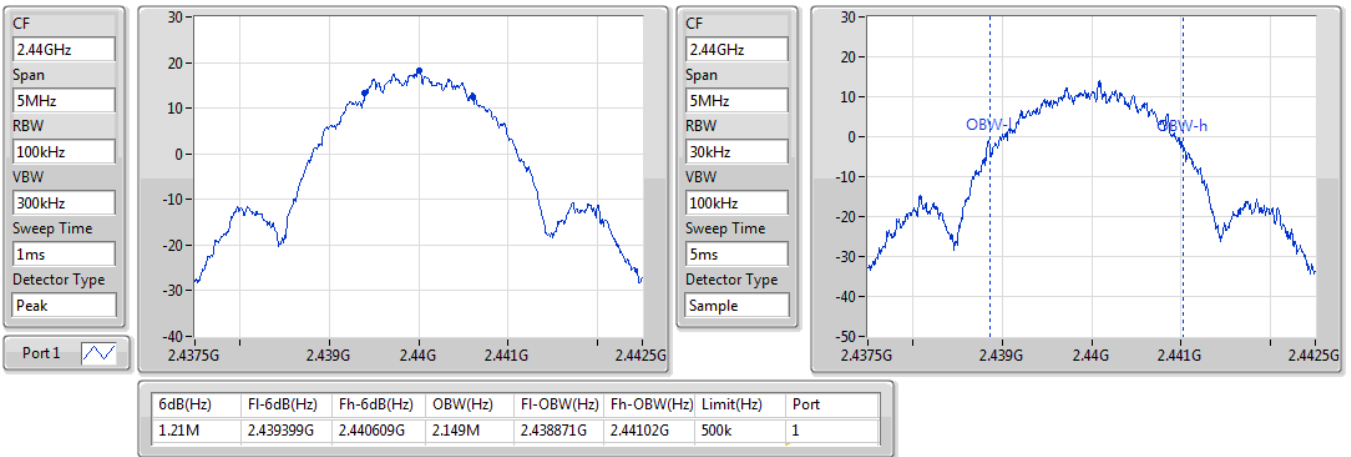
EBW-DTS



BT-LE(2Mbps)

EBW-DTS

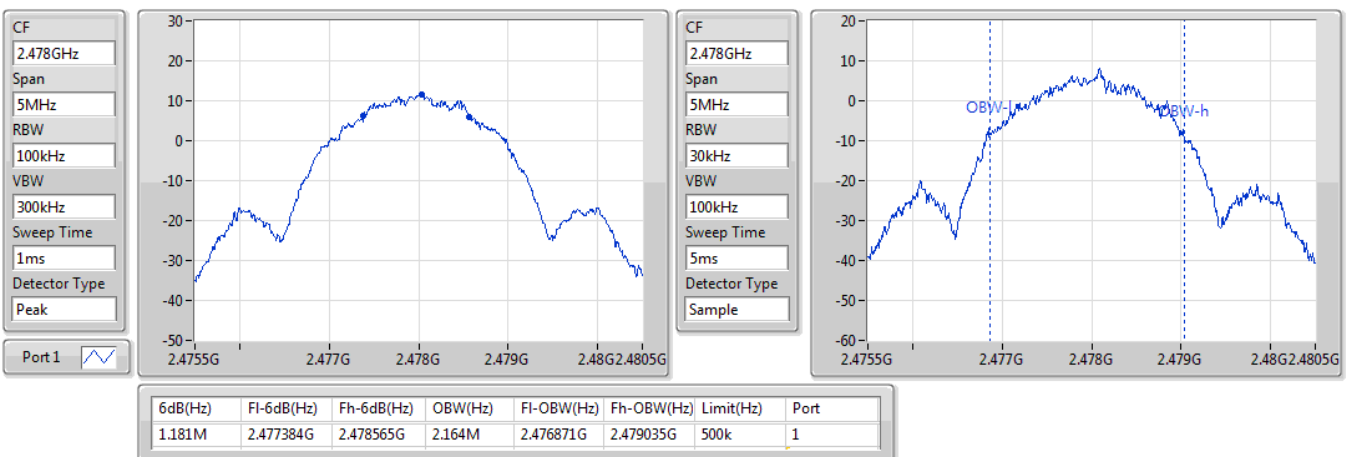
2440MHz



BT-LE(2Mbps)

EBW-DTS

2478MHz



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(125kbps)	13.46	0.02218
BT-LE(500kbps)	19.19	0.08299
BT-LE(1Mbps)	19.23	0.08375
BT-LE(2Mbps)	19.21	0.08337

Result

Mode	Result	Antenna Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	1.49	12.78	30.00
2440MHz	Pass	1.49	13.46	30.00
2480MHz	Pass	1.49	13.39	30.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	1.49	19.14	30.00
2440MHz	Pass	1.49	19.19	30.00
2480MHz	Pass	1.49	16.38	30.00
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.49	19.17	30.00
2440MHz	Pass	1.49	19.23	30.00
2480MHz	Pass	1.49	16.45	30.00
BT-LE(2Mbps)	-	-	-	-
2404MHz	Pass	1.49	19.15	30.00
2440MHz	Pass	1.49	19.21	30.00
2478MHz	Pass	1.49	13.01	30.00

Summary

Mode	PD (dBm/3kHz)
2.4-2.4835GHz	-
BT-LE(125kbps)	7.47
BT-LE(500kbps)	4.45
BT-LE(1Mbps)	0.87
BT-LE(2Mbps)	-0.34

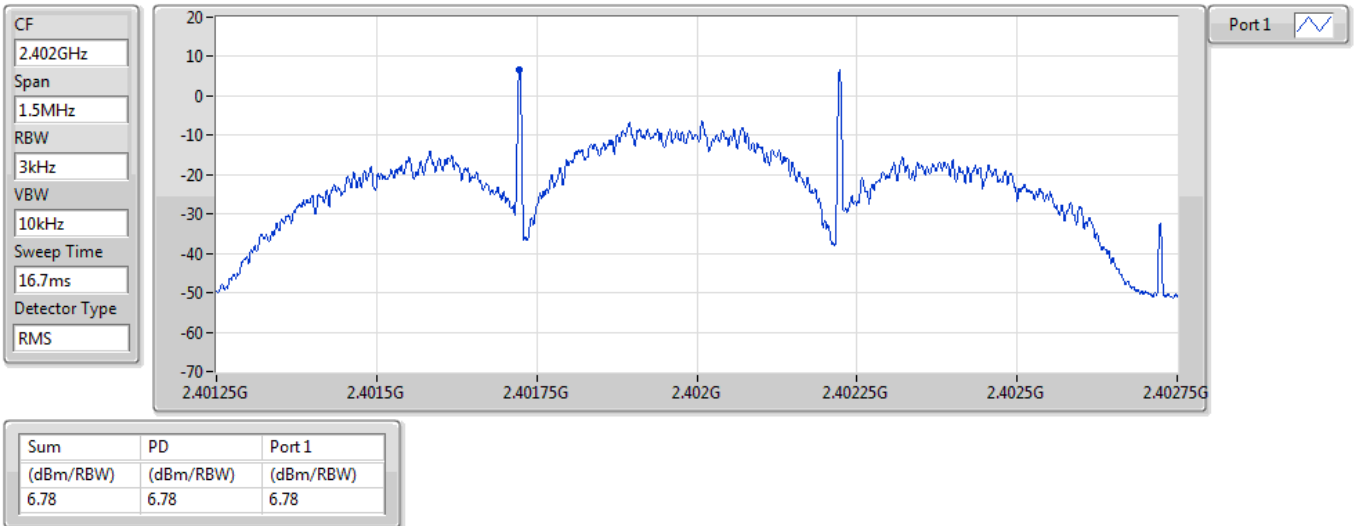
Result

Mode	Result	Antenna Gain (dBi)	Power Density (dBm/3kHz)	Power Density Limit (dBm/3kHz)
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	1.49	6.78	8.00
2440MHz	Pass	1.49	7.47	8.00
2480MHz	Pass	1.49	7.32	8.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	1.49	3.90	8.00
2440MHz	Pass	1.49	4.45	8.00
2480MHz	Pass	1.49	1.76	8.00
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.49	0.44	8.00
2440MHz	Pass	1.49	0.87	8.00
2480MHz	Pass	1.49	-2.48	8.00
BT-LE(2Mbps)	-	-	-	-
2404MHz	Pass	1.49	-0.34	8.00
2440MHz	Pass	1.49	-0.96	8.00
2478MHz	Pass	1.49	-7.03	8.00

BT-LE(125kbps)

PSD

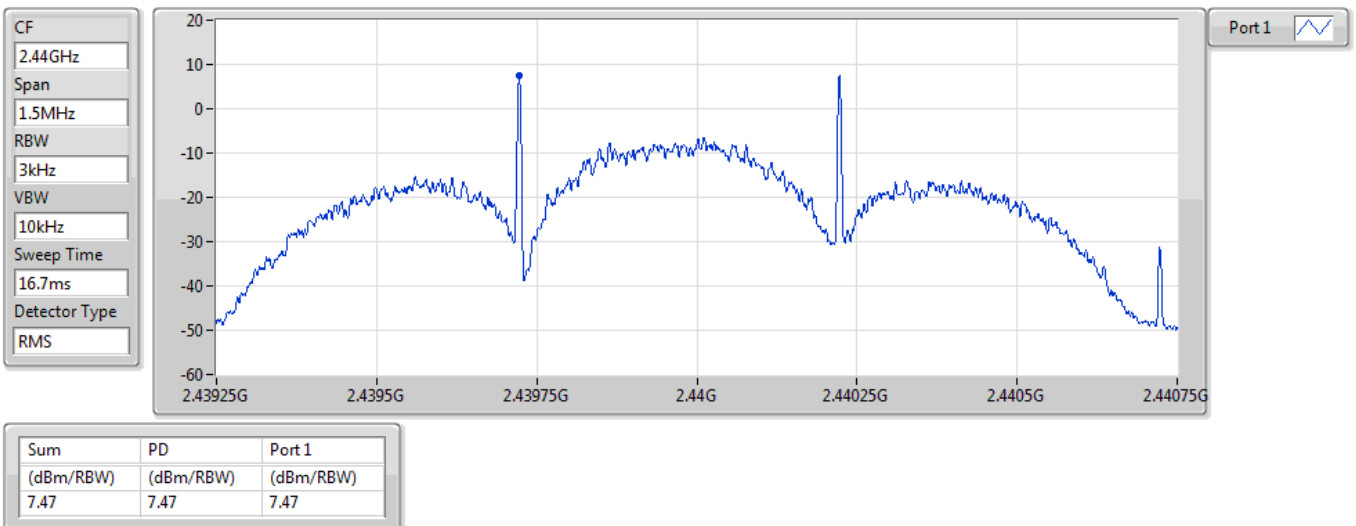
2402MHz



BT-LE(125kbps)

PSD

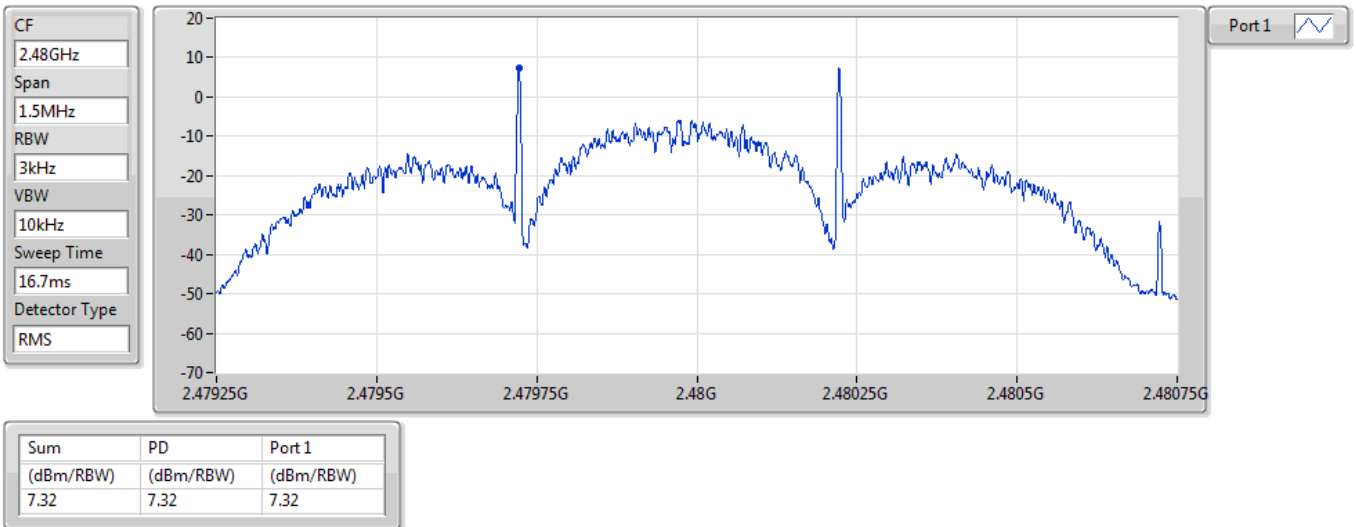
2440MHz



BT-LE(125kbps)

PSD

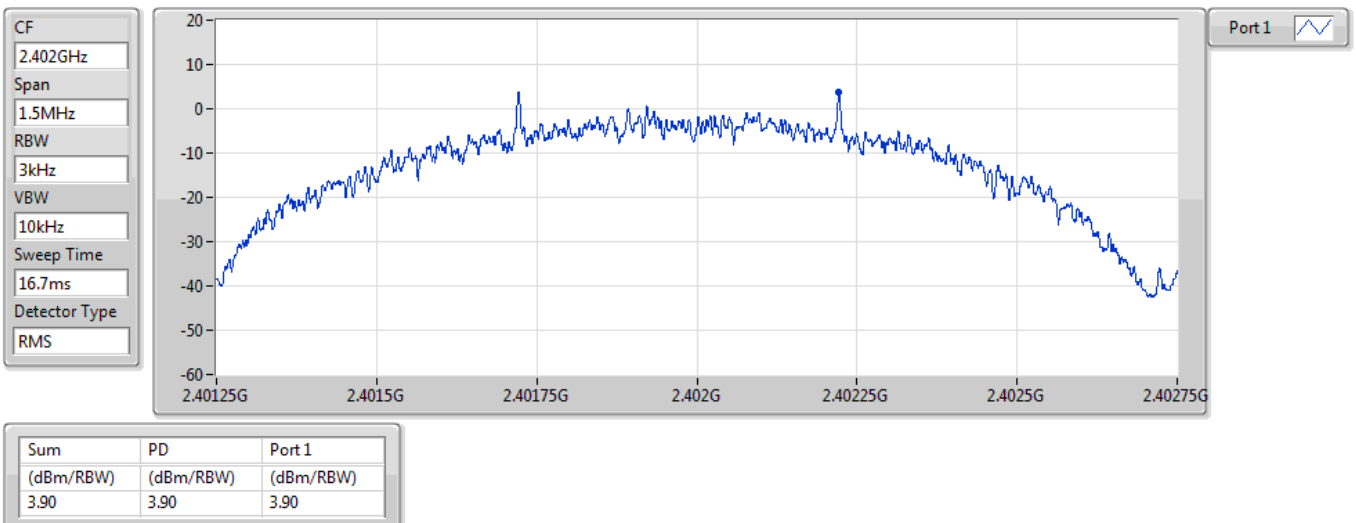
2480MHz



BT-LE(500kbps)

PSD

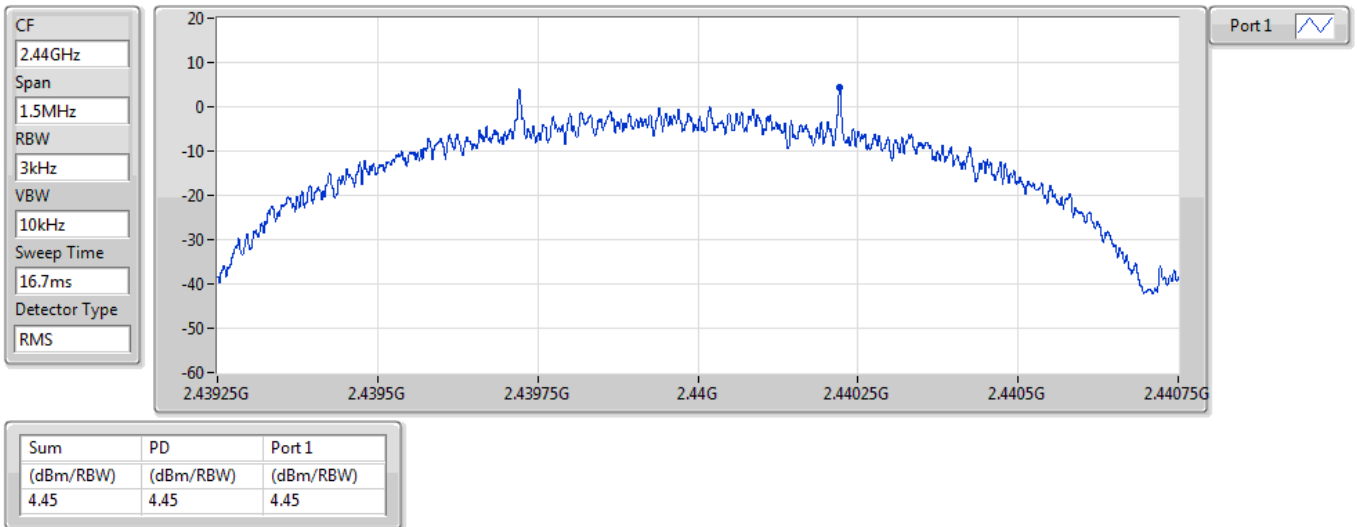
2402MHz



BT-LE(500kbps)

PSD

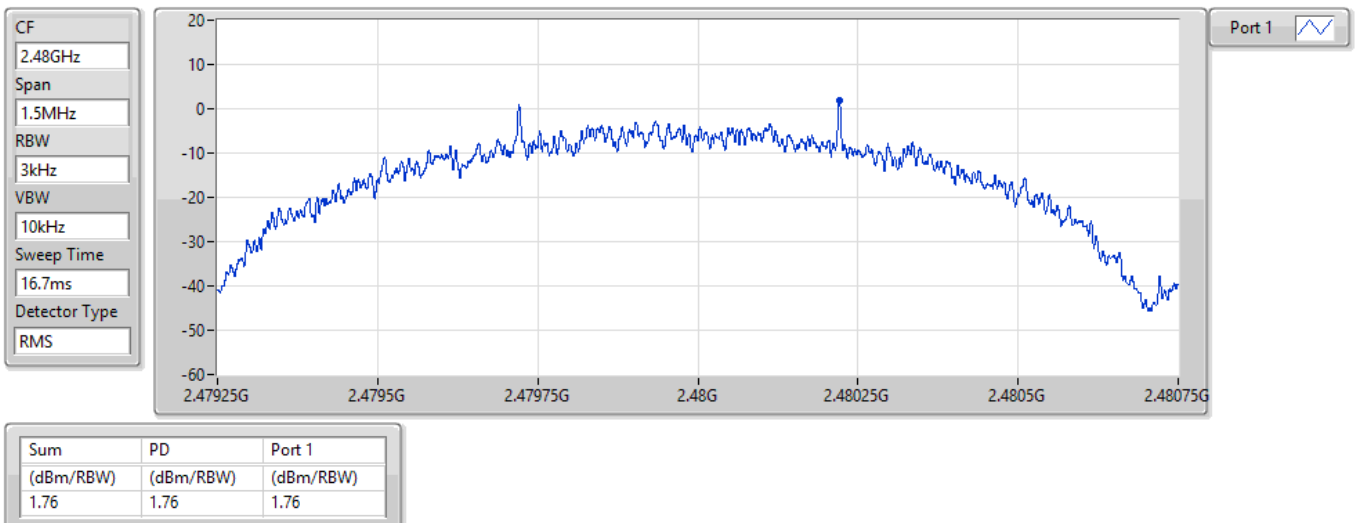
2440MHz



BT-LE(500kbps)

PSD

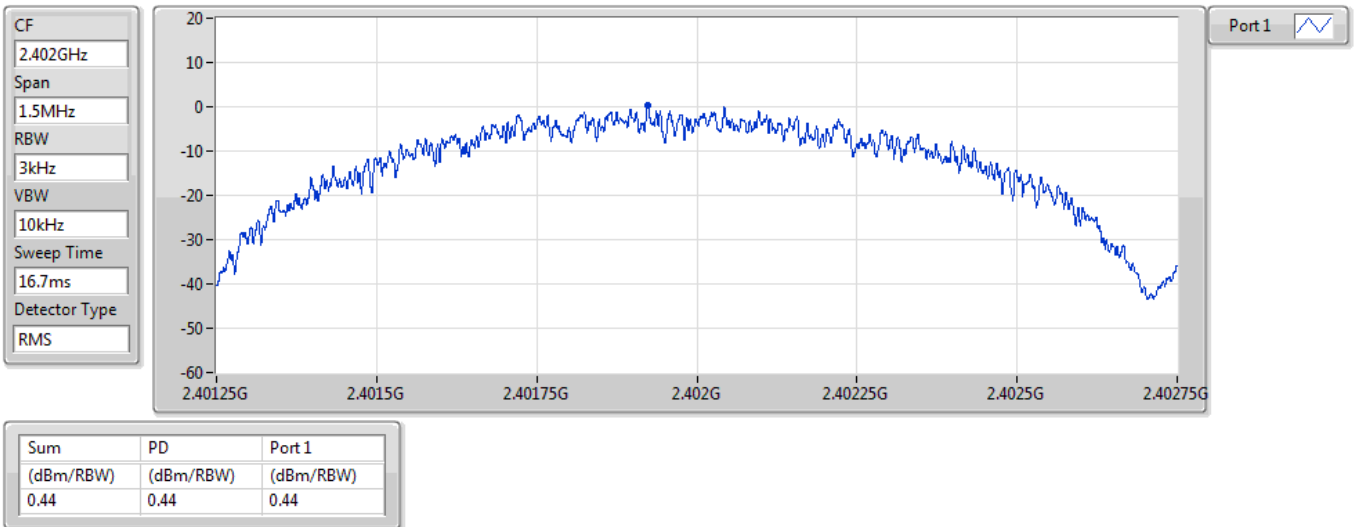
2480MHz



BT-LE(1Mbps)

PSD

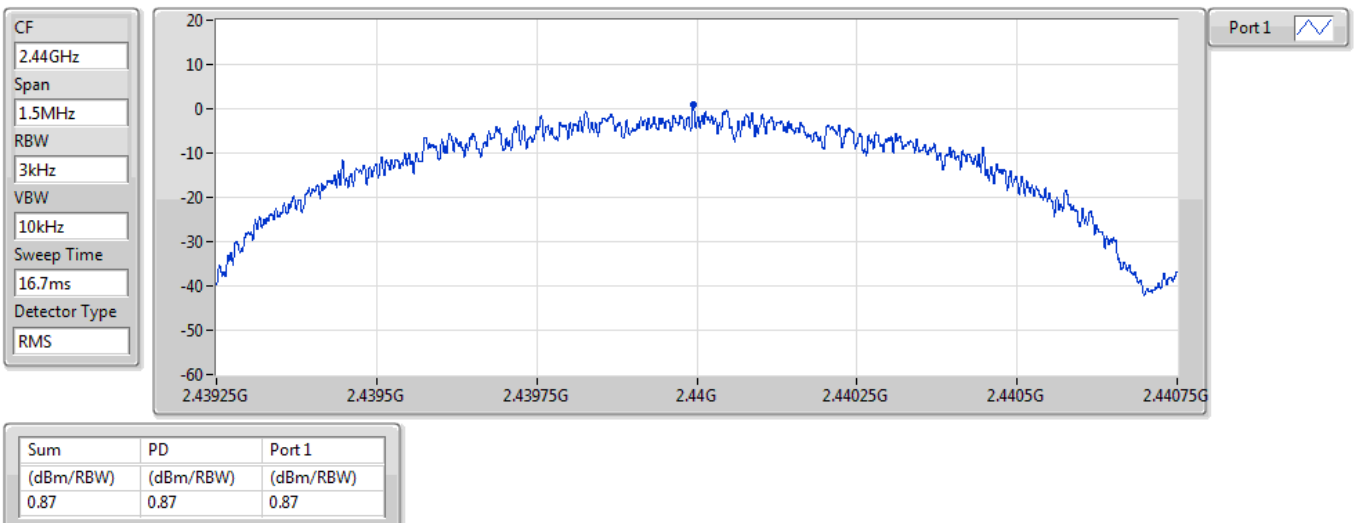
2402MHz



BT-LE(1Mbps)

PSD

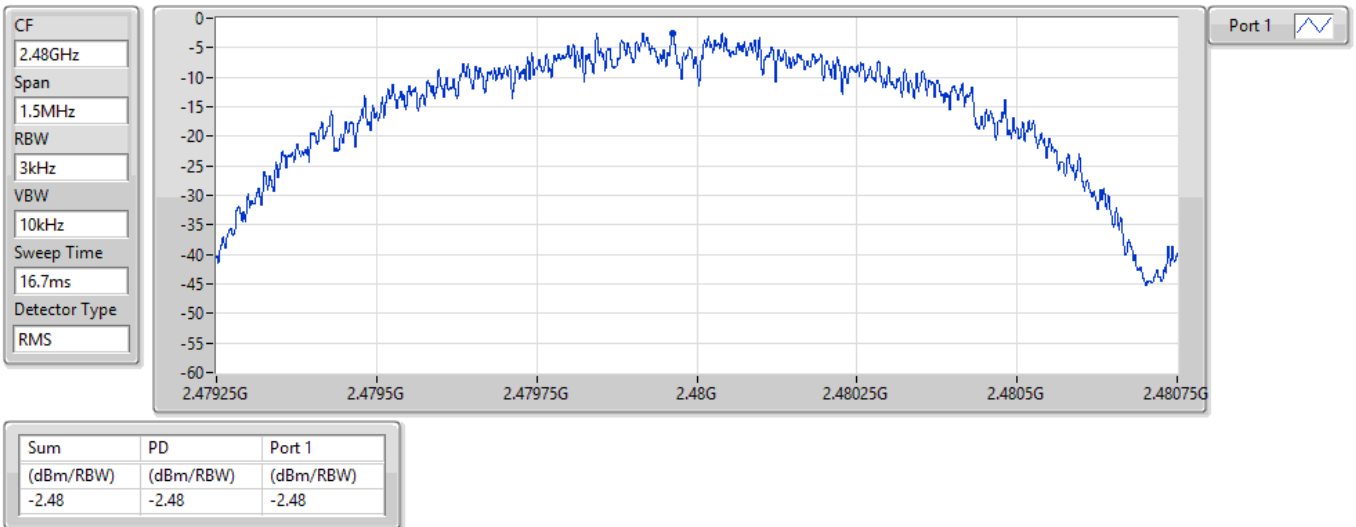
2440MHz



BT-LE(1Mbps)

PSD

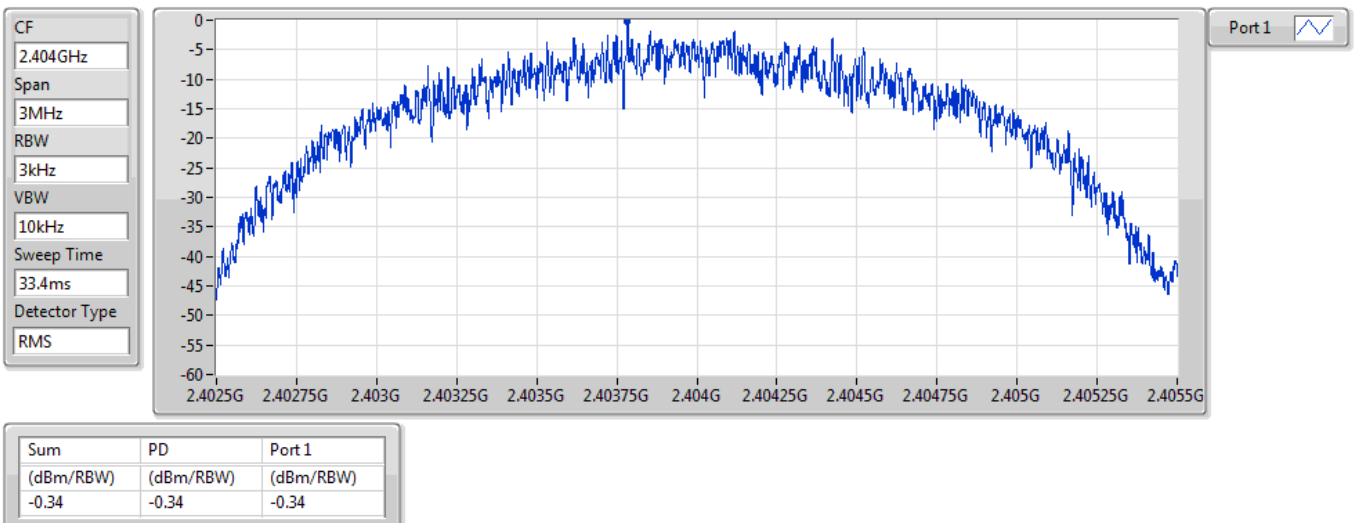
2480MHz



BT-LE(2Mbps)

PSD

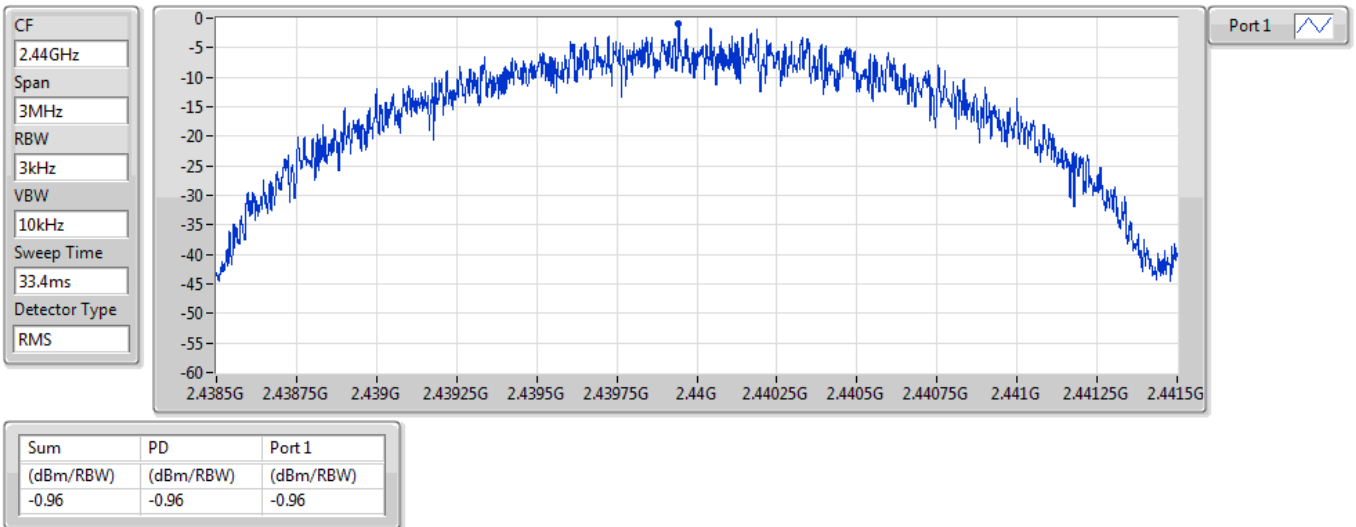
2404MHz



BT-LE(2Mbps)

PSD

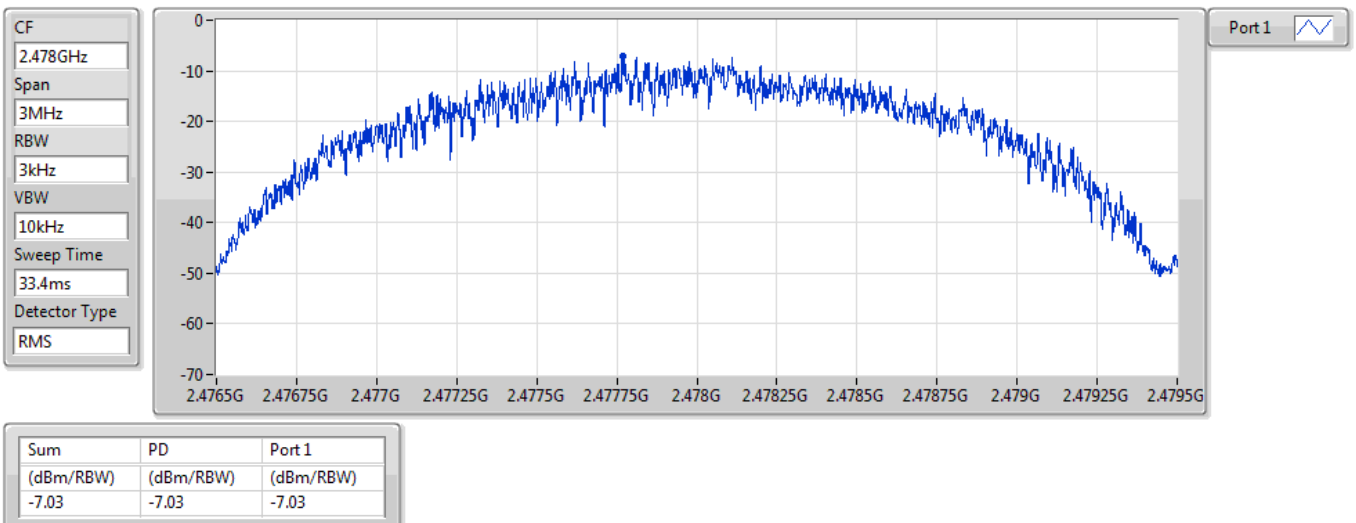
2440MHz



BT-LE(2Mbps)

PSD

2478MHz



Transmitter Conducted Unwanted Emissions (30MHz ~ 1GHz)
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(125kbps)	Pass	30M	1G	PK	73.65M	2.00	-78.26	4.7	-71.56	-55.20	-16.36
BT-LE(500kbps)	Pass	30M	1G	PK	74.14M	2.00	-78.26	4.7	-71.56	-55.20	-16.36
BT-LE(1Mbps)	Pass	30M	1G	PK	74.74M	2.00	-76.10	4.7	-69.40	-55.20	-14.20
BT-LE(2Mbps)	Pass	30M	1G	PK	74.5M	2.00	-79.20	4.7	-72.50	-55.20	-17.30

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(125kbps)	-	-	-	-	-	-	-		-	-	-
2440MHz	Pass	30M	1G	PK	73.65M	2.00	-78.26	4.7	-71.56	-55.20	-16.36
BT-LE(500kbps)	-	-	-	-	-	-	-		-	-	-
2440MHz	Pass	30M	1G	PK	74.14M	2.00	-78.26	4.7	-71.56	-55.20	-16.36
BT-LE(1Mbps)	-	-	-	-	-	-	-		-	-	-
2440MHz	Pass	30M	1G	PK	74.74M	2.00	-76.10	4.7	-69.40	-55.20	-14.20
BT-LE(2Mbps)	-	-	-	-	-	-	-		-	-	-
2440MHz	Pass	30M	1G	PK	74.5M	2.00	-79.20	4.7	-72.50	-55.20	-17.30

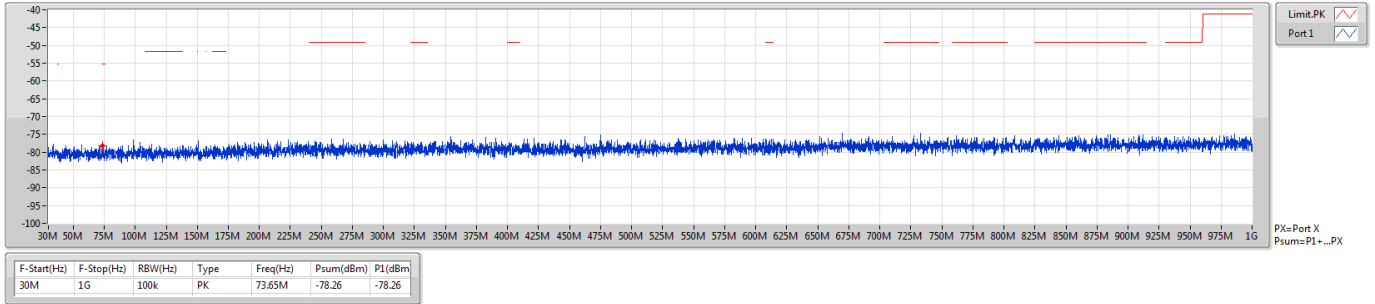
DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX



BT-LE(125kbps)

CSE-DTS [PK]

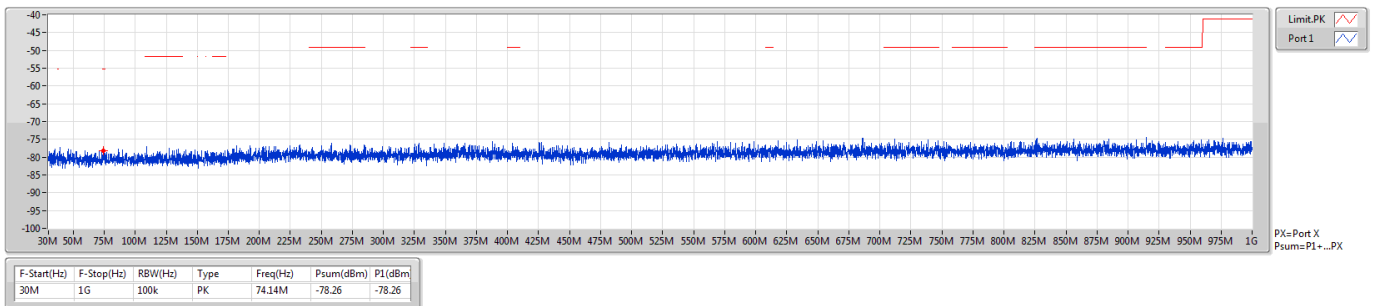
2440MHz



BT-LE(500kbps)

CSE-DTS [PK]

2440MHz

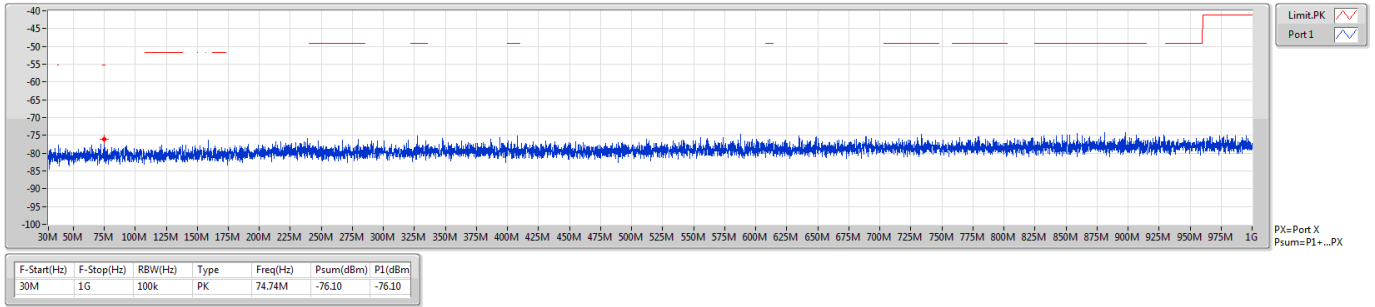




BT-LE(1Mbps)

CSE-DTS [PK]

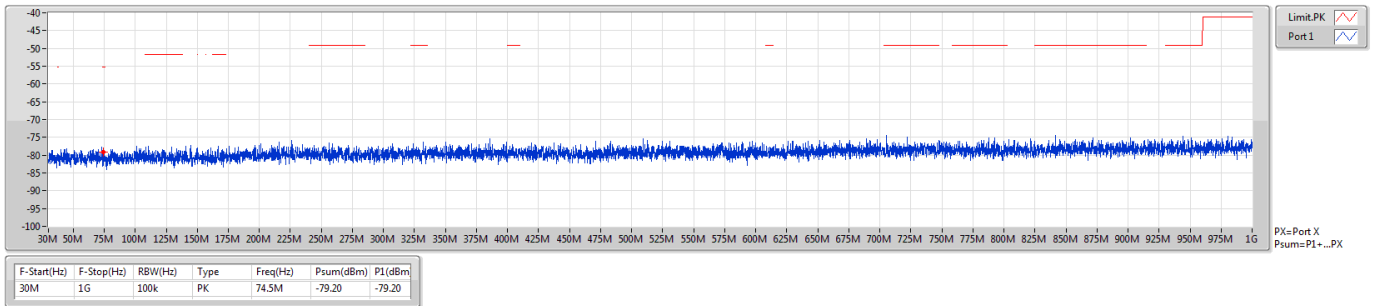
2440MHz



BT-LE(2Mbps)

CSE-DTS [PK]

2440MHz



Transmitter Conducted Unwanted Emissions (1GHz ~ 3.1GHz)
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(125kbps)	Pass	2.4835G	2.5G	AV	2.48798G	2.00	-48.51	-46.51	-41.20	-5.31
BT-LE(500kbps)	Pass	2.4835G	2.5G	AV	2.48798G	2.00	-46.22	-44.22	-41.20	-3.02
BT-LE(1Mbps)	Pass	2.4835G	2.5G	AV	2.48791G	2.00	-46.30	-44.30	-41.20	-3.10
BT-LE(2Mbps)	Pass	2.4835G	2.5G	AV	2.48352G	2.00	-45.20	-43.20	-41.20	-2.00

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(125kbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	1G	2.31G	AV	2.27414G	2.00	-58.78	-56.78	-41.20	-15.58
2402MHz	Pass	2.31G	2.39G	AV	2.38604G	2.00	-56.99	-54.99	-41.20	-13.79
2402MHz	Pass	2.4835G	2.5G	AV	2.49791G	2.00	-57.76	-55.76	-41.20	-14.56
2402MHz	Pass	2.5G	3.1G	AV	2.53G	2.00	-52.91	-50.91	-41.20	-9.71
2402MHz	Pass	1G	2.31G	PK	2.27463G	2.00	-51.39	-49.39	-21.20	-28.19
2402MHz	Pass	2.31G	2.39G	PK	2.33788G	2.00	-41.39	-39.39	-21.20	-18.19
2402MHz	Pass	2.4835G	2.5G	PK	2.49854G	2.00	-47.76	-45.76	-21.20	-24.56
2402MHz	Pass	2.5G	3.1G	PK	2.5297G	2.00	-47.14	-45.14	-21.20	-23.94
2440MHz	Pass	1G	2.31G	AV	2.2481G	2.00	-60.08	-58.08	-41.20	-16.88
2440MHz	Pass	2.31G	2.39G	AV	2.312G	2.00	-57.83	-55.83	-41.20	-14.63
2440MHz	Pass	2.4835G	2.5G	AV	2.4879G	2.00	-57.80	-55.80	-41.20	-14.60
2440MHz	Pass	2.5G	3.1G	AV	2.56795G	2.00	-54.97	-52.97	-41.20	-11.77
2440MHz	Pass	1G	2.31G	PK	2.29494G	2.00	-51.66	-49.66	-21.20	-28.46
2440MHz	Pass	2.31G	2.39G	PK	2.37596G	2.00	-40.42	-38.42	-21.20	-17.22
2440MHz	Pass	2.4835G	2.5G	PK	2.48837G	2.00	-47.40	-45.40	-21.20	-24.20
2440MHz	Pass	2.5G	3.1G	PK	2.5681G	2.00	-47.16	-45.16	-21.20	-23.96
2480MHz	Pass	1G	2.31G	AV	2.28789G	2.00	-60.08	-58.08	-41.20	-16.88
2480MHz	Pass	2.31G	2.39G	AV	2.352G	2.00	-54.24	-52.24	-41.20	-11.04
2480MHz	Pass	2.4835G	2.5G	AV	2.48798G	2.00	-48.51	-46.51	-41.20	-5.31
2480MHz	Pass	2.5G	3.1G	AV	2.60785G	2.00	-54.54	-52.54	-41.20	-11.34
2480MHz	Pass	1G	2.31G	PK	2.24974G	2.00	-51.22	-49.22	-21.20	-28.02
2480MHz	Pass	2.31G	2.39G	PK	2.35168G	2.00	-46.92	-44.92	-21.20	-23.72
2480MHz	Pass	2.4835G	2.5G	PK	2.48355G	2.00	-37.18	-35.18	-21.20	-13.98
2480MHz	Pass	2.5G	3.1G	PK	2.5444G	2.00	-44.96	-42.96	-21.20	-21.76
BT-LE(500kbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	1G	2.31G	AV	2.27414G	2.00	-56.18	-54.18	-41.20	-12.98
2402MHz	Pass	2.31G	2.39G	AV	2.37004G	2.00	-51.69	-49.69	-41.20	-8.49
2402MHz	Pass	2.4835G	2.5G	AV	2.49796G	2.00	-55.44	-53.44	-41.20	-12.24
2402MHz	Pass	2.5G	3.1G	AV	2.52985G	2.00	-51.39	-49.39	-41.20	-8.19
2402MHz	Pass	1G	2.31G	PK	2.27463G	2.00	-50.34	-48.34	-21.20	-27.14
2402MHz	Pass	2.31G	2.39G	PK	2.3378G	2.00	-36.42	-34.42	-21.20	-13.22
2402MHz	Pass	2.4835G	2.5G	PK	2.49827G	2.00	-47.33	-45.33	-21.20	-24.13
2402MHz	Pass	2.5G	3.1G	PK	2.5297G	2.00	-45.59	-43.59	-21.20	-22.39
2440MHz	Pass	1G	2.31G	AV	2.24827G	2.00	-56.63	-54.63	-41.20	-13.43
2440MHz	Pass	2.31G	2.39G	AV	2.31204G	2.00	-53.53	-51.53	-41.20	-10.33
2440MHz	Pass	2.4835G	2.5G	AV	2.48807G	2.00	-55.08	-53.08	-41.20	-11.88
2440MHz	Pass	2.5G	3.1G	AV	2.56795G	2.00	-53.42	-51.42	-41.20	-10.22
2440MHz	Pass	1G	2.31G	PK	2.31G	2.00	-50.56	-48.56	-21.20	-27.36
2440MHz	Pass	2.31G	2.39G	PK	2.376G	2.00	-32.89	-30.89	-21.20	-9.69
2440MHz	Pass	2.4835G	2.5G	PK	2.48842G	2.00	-45.78	-43.78	-21.20	-22.58
2440MHz	Pass	2.5G	3.1G	PK	2.5042G	2.00	-35.12	-33.12	-21.20	-11.92

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	2.28806G	2.00	-58.86	-56.86	-41.20	-15.66
2480MHz	Pass	2.31G	2.39G	AV	2.35204G	2.00	-52.36	-50.36	-41.20	-9.16
2480MHz	Pass	2.4835G	2.5G	AV	2.48798G	2.00	-46.22	-44.22	-41.20	-3.02
2480MHz	Pass	2.5G	3.1G	AV	2.60785G	2.00	-53.05	-51.05	-41.20	-9.85
2480MHz	Pass	1G	2.31G	PK	2.28839G	2.00	-52.14	-50.14	-21.20	-28.94
2480MHz	Pass	2.31G	2.39G	PK	2.35164G	2.00	-46.38	-44.38	-21.20	-23.18
2480MHz	Pass	2.4835G	2.5G	PK	2.48356G	2.00	-36.93	-34.93	-21.20	-13.73
2480MHz	Pass	2.5G	3.1G	PK	2.5435G	2.00	-41.99	-39.99	-21.20	-18.79
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	1G	2.31G	AV	2.27414G	2.00	-56.18	-54.18	-41.20	-12.98
2402MHz	Pass	2.31G	2.39G	AV	2.37G	2.00	-51.44	-49.44	-41.20	-8.24
2402MHz	Pass	2.4835G	2.5G	AV	2.498G	2.00	-55.58	-53.58	-41.20	-12.38
2402MHz	Pass	2.5G	3.1G	AV	2.52985G	2.00	-51.47	-49.47	-41.20	-8.27
2402MHz	Pass	1G	2.31G	PK	2.27463G	2.00	-49.99	-47.99	-21.20	-26.79
2402MHz	Pass	2.31G	2.39G	PK	2.33808G	2.00	-36.62	-34.62	-21.20	-13.42
2402MHz	Pass	2.4835G	2.5G	PK	2.49822G	2.00	-47.55	-45.55	-21.20	-24.35
2402MHz	Pass	2.5G	3.1G	PK	2.5297G	2.00	-45.46	-43.46	-21.20	-22.26
2440MHz	Pass	1G	2.31G	AV	2.24827G	2.00	-56.63	-54.63	-41.20	-13.43
2440MHz	Pass	2.31G	2.39G	AV	2.31196G	2.00	-53.32	-51.32	-41.20	-10.12
2440MHz	Pass	2.4835G	2.5G	AV	2.48809G	2.00	-55.20	-53.20	-41.20	-12.00
2440MHz	Pass	2.5G	3.1G	AV	2.56795G	2.00	-53.53	-51.53	-41.20	-10.33
2440MHz	Pass	1G	2.31G	PK	2.24843G	2.00	-49.45	-47.45	-21.20	-26.25
2440MHz	Pass	2.31G	2.39G	PK	2.37604G	2.00	-33.45	-31.45	-21.20	-10.25
2440MHz	Pass	2.4835G	2.5G	PK	2.48824G	2.00	-44.38	-42.38	-21.20	-21.18
2440MHz	Pass	2.5G	3.1G	PK	2.5042G	2.00	-36.75	-34.75	-21.20	-13.55
2480MHz	Pass	1G	2.31G	AV	2.28806G	2.00	-59.03	-57.03	-41.20	-15.83
2480MHz	Pass	2.31G	2.39G	AV	2.352G	2.00	-52.11	-50.11	-41.20	-8.91
2480MHz	Pass	2.4835G	2.5G	AV	2.48791G	2.00	-46.30	-44.30	-41.20	-3.10
2480MHz	Pass	2.5G	3.1G	AV	2.60785G	2.00	-53.14	-51.14	-41.20	-9.94
2480MHz	Pass	1G	2.31G	PK	2.24123G	2.00	-52.00	-50.00	-21.20	-28.80
2480MHz	Pass	2.31G	2.39G	PK	2.352G	2.00	-46.05	-44.05	-21.20	-22.85
2480MHz	Pass	2.4835G	2.5G	PK	2.48382G	2.00	-36.39	-34.39	-21.20	-13.19
2480MHz	Pass	2.5G	3.1G	PK	2.5441G	2.00	-38.80	-36.80	-21.20	-15.60
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2404MHz	Pass	1G	2.31G	AV	2.2761G	2.00	-56.45	-54.45	-41.20	-13.25
2404MHz	Pass	2.31G	2.39G	AV	2.38816G	2.00	-50.49	-48.49	-41.20	-7.29
2404MHz	Pass	2.4835G	2.5G	AV	2.49993G	2.00	-55.44	-53.44	-41.20	-12.24
2404MHz	Pass	2.5G	3.1G	AV	2.53195G	2.00	-51.72	-49.72	-41.20	-8.52
2404MHz	Pass	1G	2.31G	PK	2.27725G	2.00	-48.51	-46.51	-21.20	-25.31
2404MHz	Pass	2.31G	2.39G	PK	2.3404G	2.00	-35.80	-33.80	-21.20	-12.60
2404MHz	Pass	2.4835G	2.5G	PK	2.49993G	2.00	-46.03	-44.03	-21.20	-22.83
2404MHz	Pass	2.5G	3.1G	PK	2.5315G	2.00	-45.68	-43.68	-21.20	-22.48

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2440MHz	Pass	1G	2.31G	AV	2.24794G	2.00	-57.53	-55.53	-41.20	-14.33
2440MHz	Pass	2.31G	2.39G	AV	2.37612G	2.00	-53.83	-51.83	-41.20	-10.63
2440MHz	Pass	2.4835G	2.5G	AV	2.48797G	2.00	-54.67	-52.67	-41.20	-11.47
2440MHz	Pass	2.5G	3.1G	AV	2.5039G	2.00	-53.60	-51.60	-41.20	-10.40
2440MHz	Pass	1G	2.31G	PK	2.24909G	2.00	-49.69	-47.69	-21.20	-26.49
2440MHz	Pass	2.31G	2.39G	PK	2.3764G	2.00	-32.61	-30.61	-21.20	-9.41
2440MHz	Pass	2.4835G	2.5G	PK	2.49897G	2.00	-43.70	-41.70	-21.20	-20.50
2440MHz	Pass	2.5G	3.1G	PK	2.5042G	2.00	-37.29	-35.29	-21.20	-14.09
2478MHz	Pass	1G	2.31G	AV	2.28609G	2.00	-59.65	-57.65	-41.20	-16.45
2478MHz	Pass	2.31G	2.39G	AV	2.34988G	2.00	-56.48	-54.48	-41.20	-13.28
2478MHz	Pass	2.4835G	2.5G	AV	2.48352G	2.00	-45.20	-43.20	-41.20	-2.00
2478MHz	Pass	2.5G	3.1G	AV	2.60605G	2.00	-56.56	-54.56	-41.20	-13.36
2478MHz	Pass	1G	2.31G	PK	2.28708G	2.00	-51.69	-49.69	-21.20	-28.49
2478MHz	Pass	2.31G	2.39G	PK	2.34992G	2.00	-48.14	-46.14	-21.20	-24.94
2478MHz	Pass	2.4835G	2.5G	PK	2.48352G	2.00	-34.05	-32.05	-21.20	-10.85
2478MHz	Pass	2.5G	3.1G	PK	2.5423G	2.00	-40.23	-38.23	-21.20	-17.03

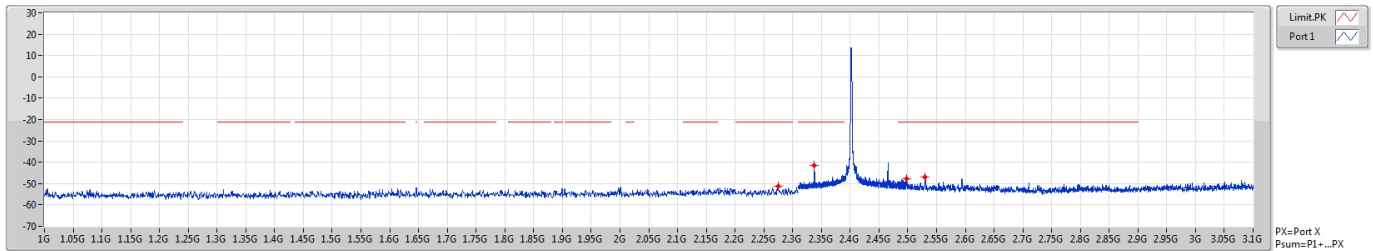
DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX



BT-LE(125kbps)

CSE-DTS [PK]

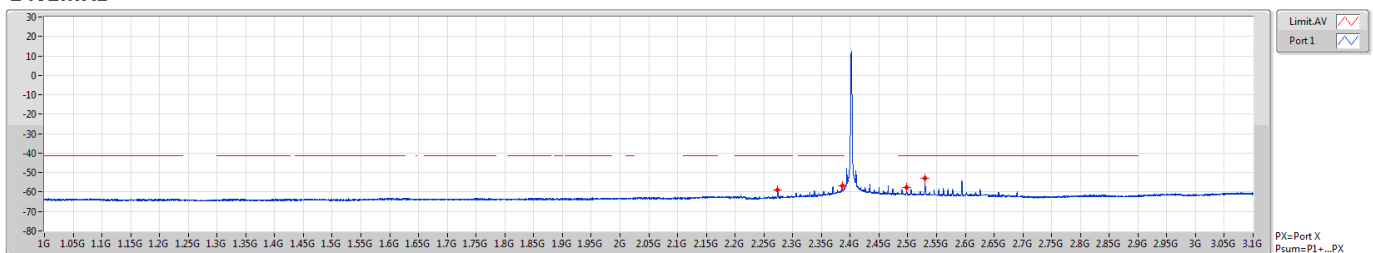
2402MHz



BT-LE(125kbps)

CSE-DTS [AV]

2402MHz

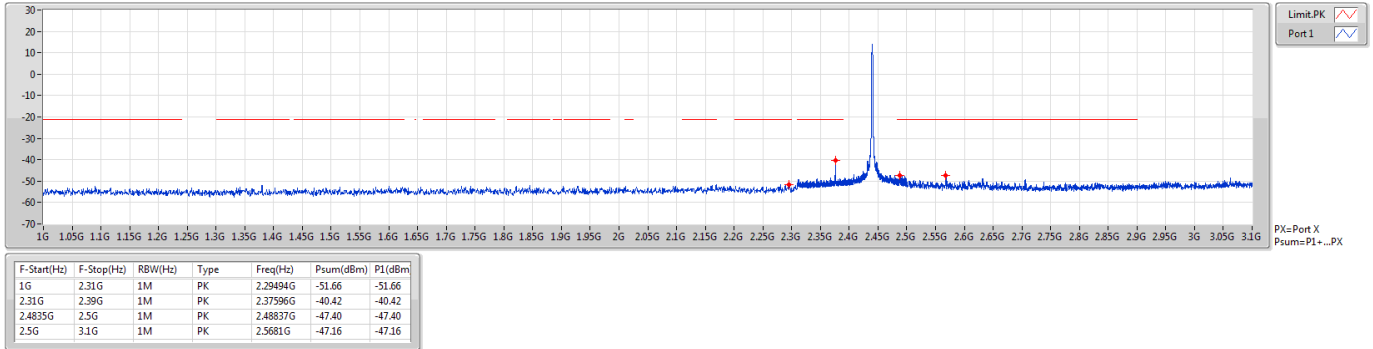




BT-LE(125kbps)

CSE-DTS [PK]

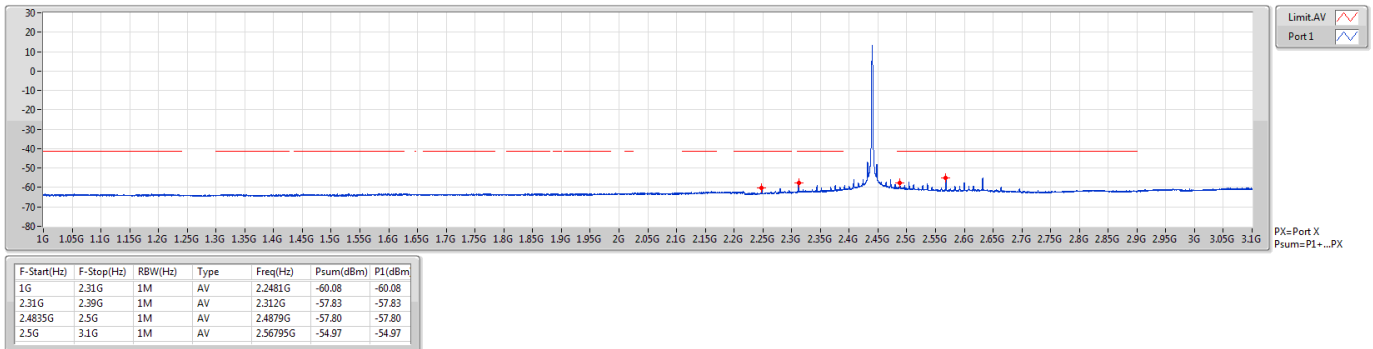
2440MHz



BT-LE(125kbps)

CSE-DTS [AV]

2440MHz

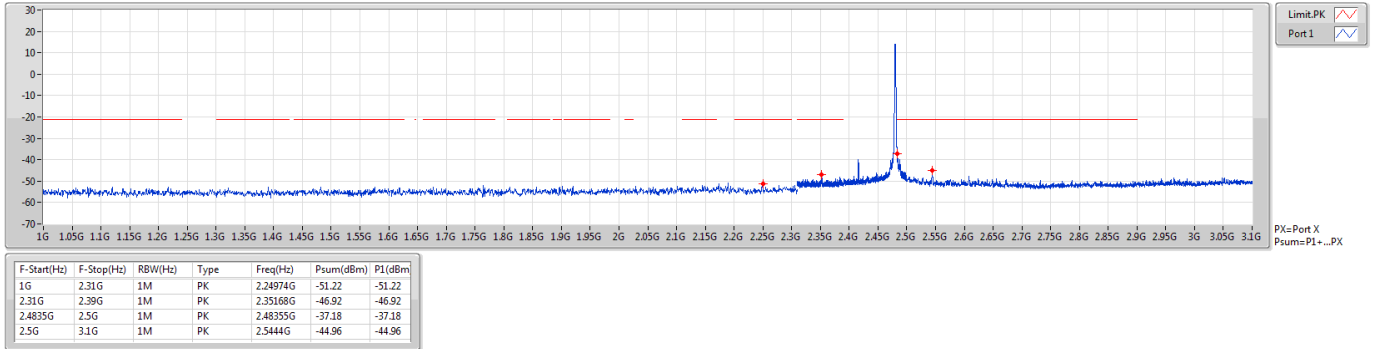




BT-LE(125kbps)

CSE-DTS [PK]

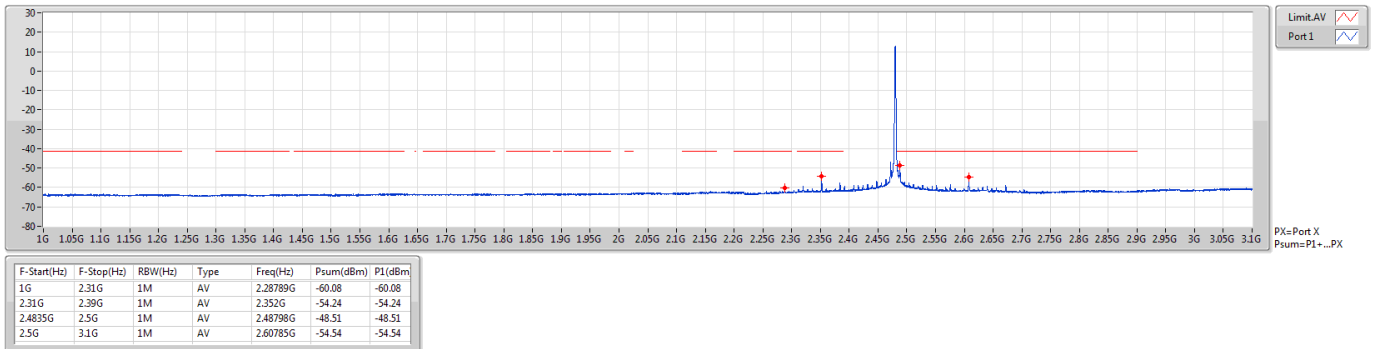
2480MHz



BT-LE(125kbps)

CSE-DTS [AV]

2480MHz

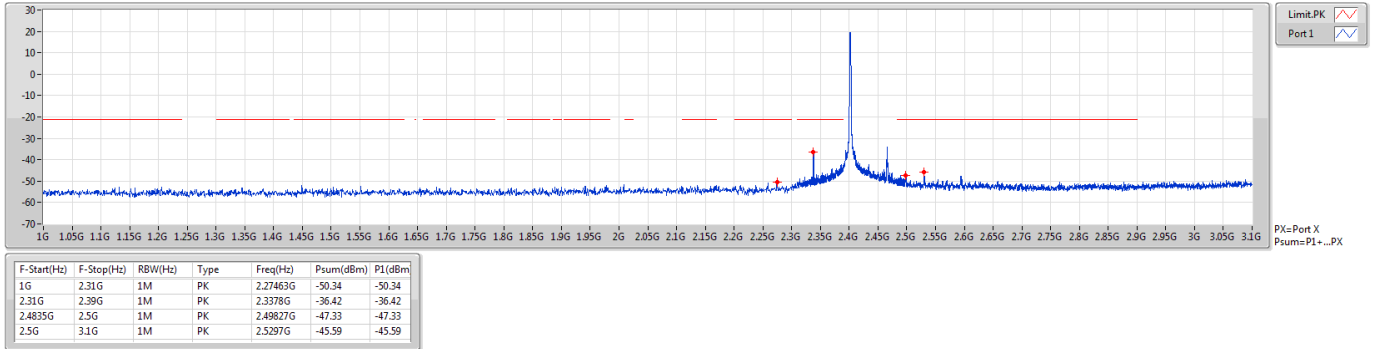




BT-LE(500kbps)

CSE-DTS [PK]

2402MHz



BT-LE(500kbps)

CSE-DTS [AV]

2402MHz

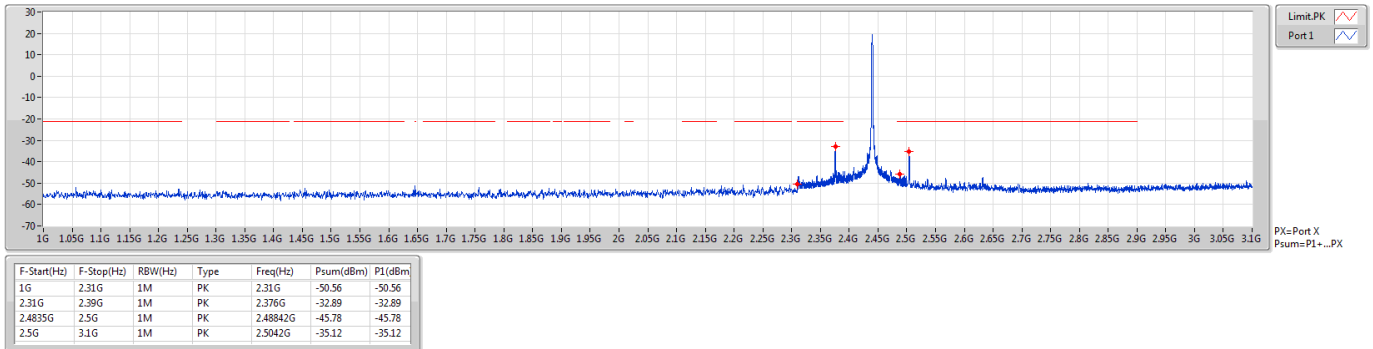




BT-LE(500kbps)

CSE-DTS [PK]

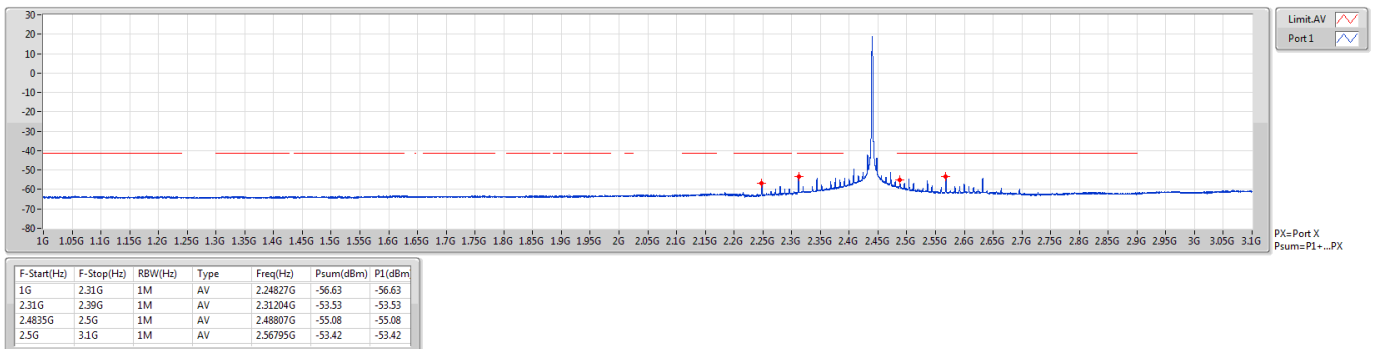
2440MHz



BT-LE(500kbps)

CSE-DTS [AV]

2440MHz

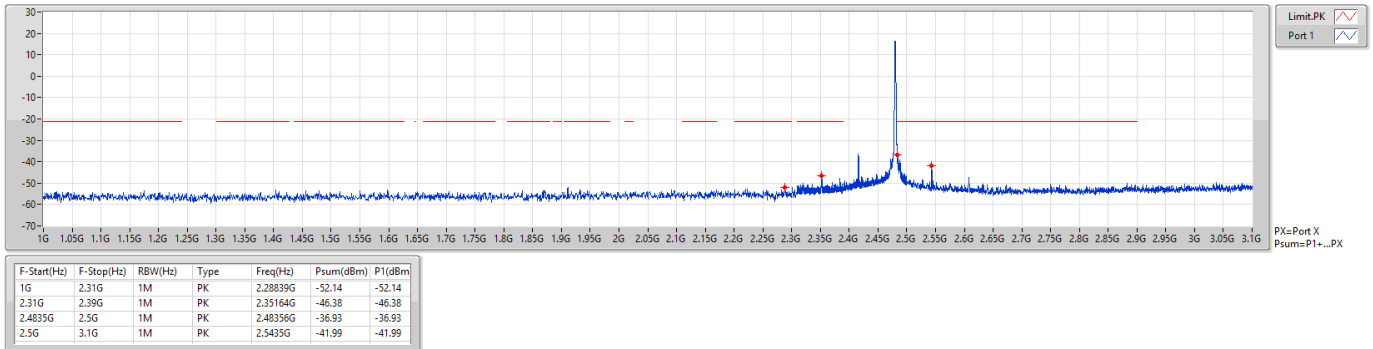




BT-LE(500kbps)

CSE-DTS [PK]

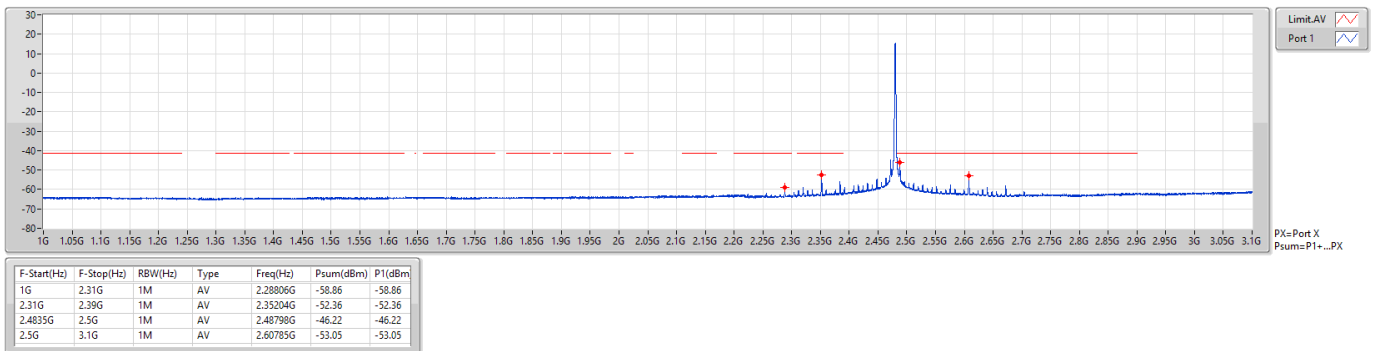
2480MHz



BT-LE(500kbps)

CSE-DTS [AV]

2480MHz

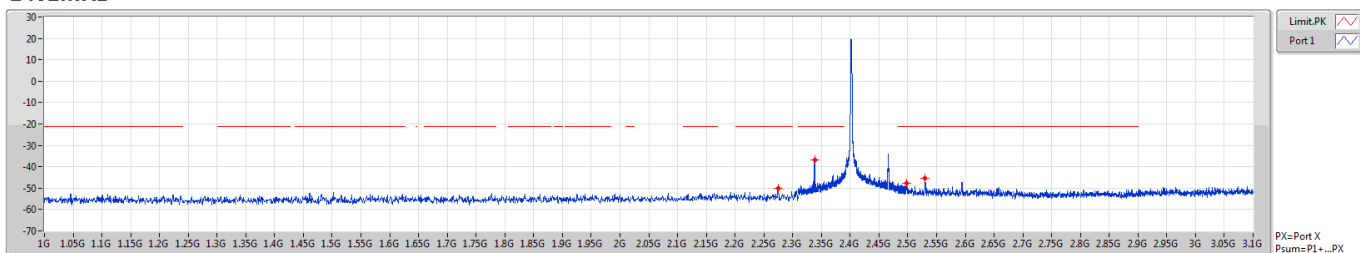




BT-LE(1Mbps)

CSE-DTS [PK]

2402MHz

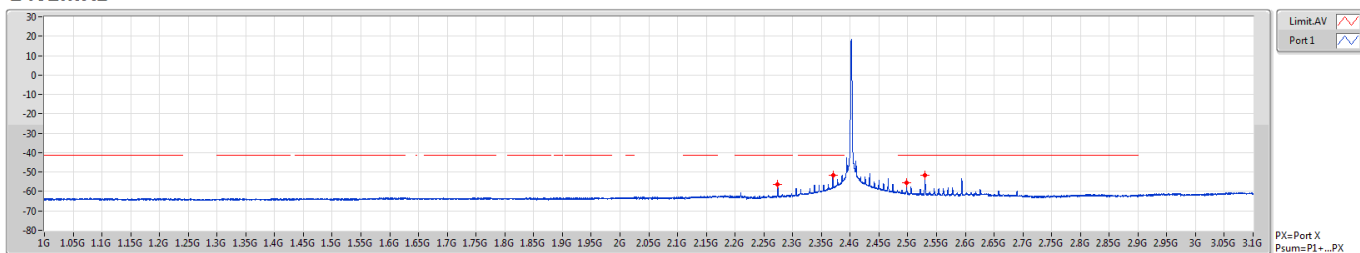


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
1G	2.31G	1M	PK	2.27463G	-49.99	-49.99
2.31G	2.39G	1M	PK	2.33808G	-36.62	-36.62
2.4835G	2.5G	1M	PK	2.49822G	-47.55	-47.55
2.5G	3.1G	1M	PK	2.5297G	-45.46	-45.46

BT-LE(1Mbps)

CSE-DTS [AV]

2402MHz



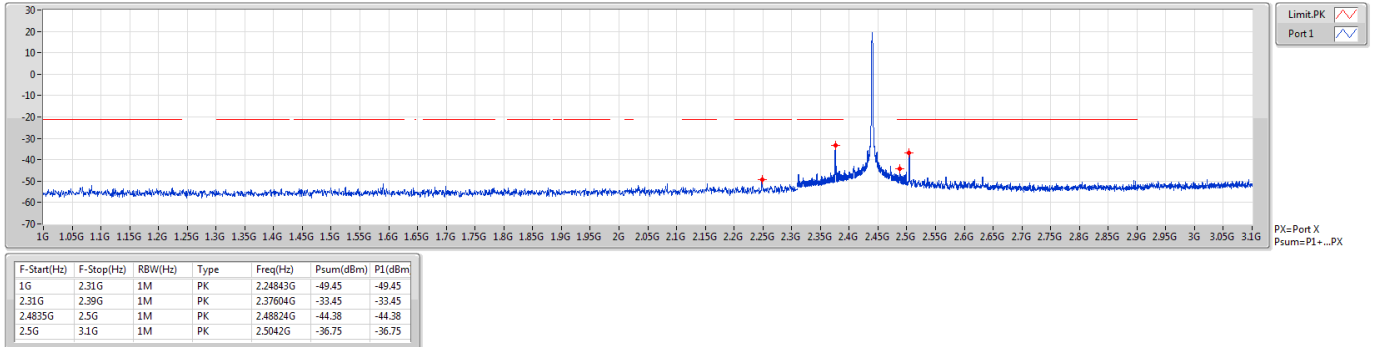
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
1G	2.31G	1M	AV	2.27414G	-56.18	-56.18
2.31G	2.39G	1M	AV	2.37G	-51.44	-51.44
2.4835G	2.5G	1M	AV	2.498G	-55.58	-55.58
2.5G	3.1G	1M	AV	2.52985G	-51.47	-51.47



BT-LE(1Mbps)

CSE-DTS [PK]

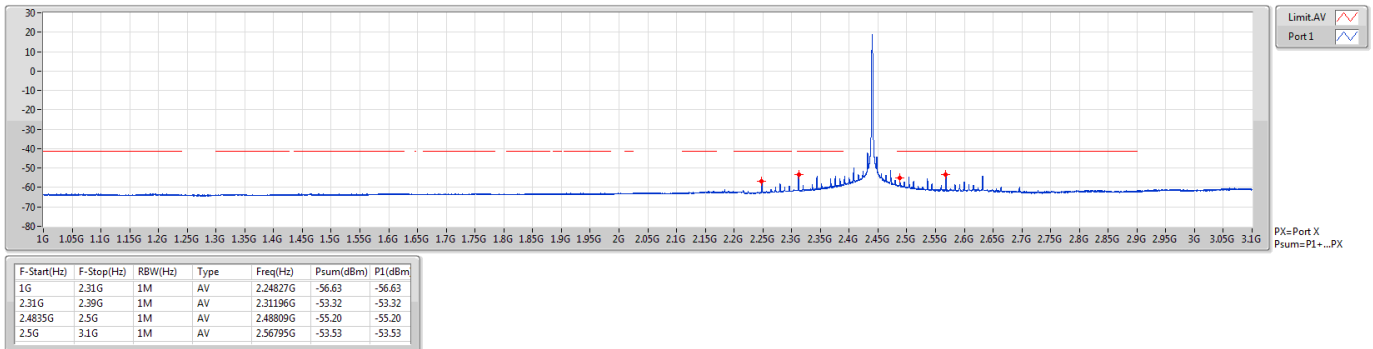
2440MHz



BT-LE(1Mbps)

CSE-DTS [AV]

2440MHz

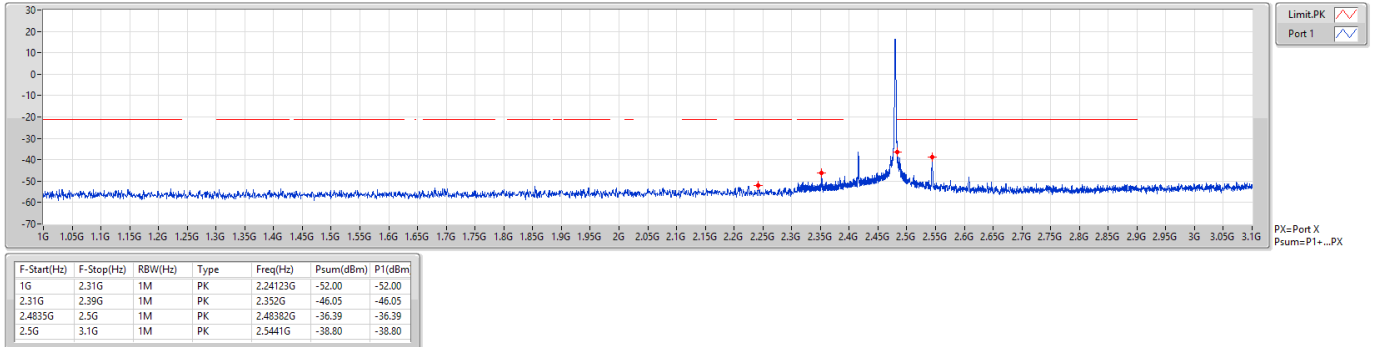




BT-LE(1Mbps)

CSE-DTS [PK]

2480MHz



BT-LE(1Mbps)

CSE-DTS [AV]

2480MHz

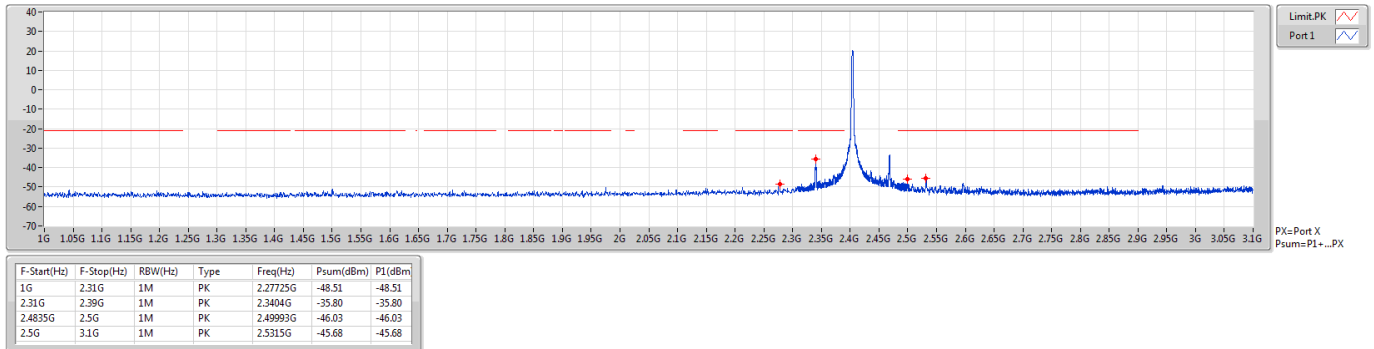




BT-LE(2Mbps)

CSE-DTS [PK]

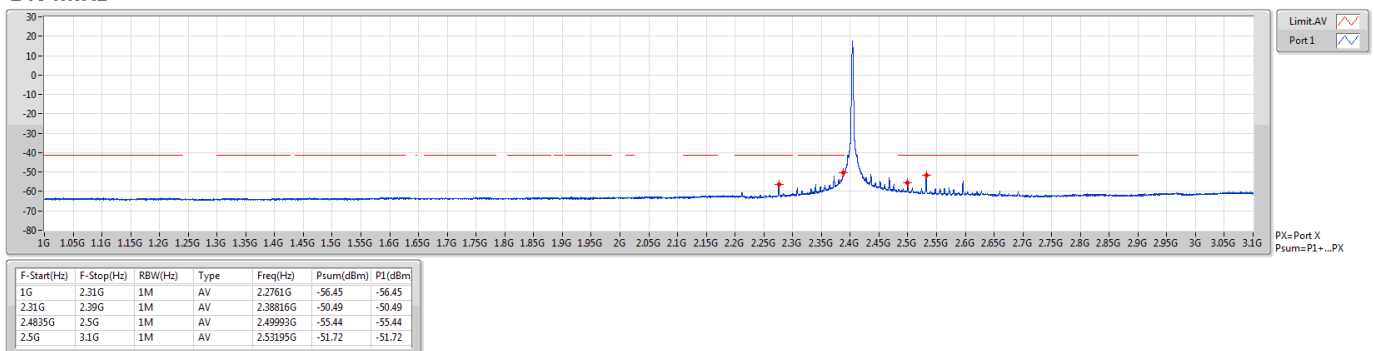
2404MHz



BT-LE(2Mbps)

CSE-DTS [AV]

2404MHz

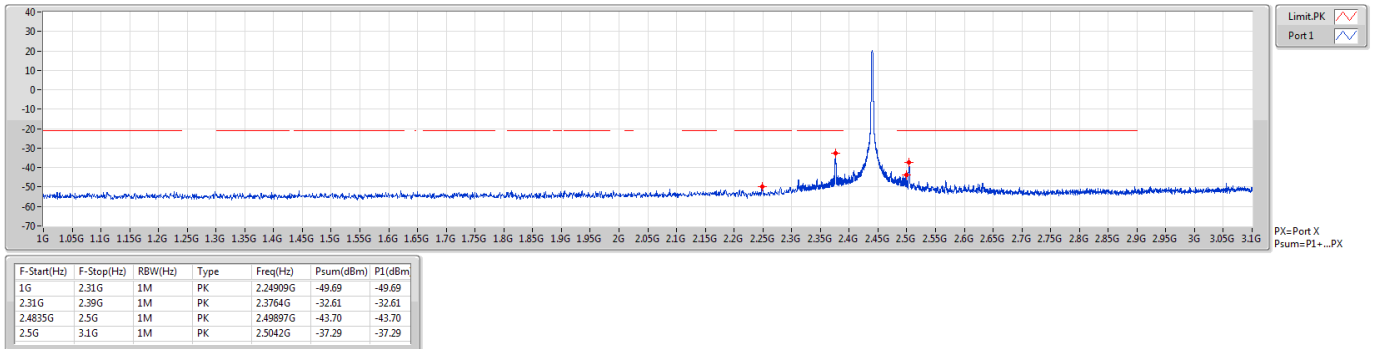




BT-LE(2Mbps)

CSE-DTS [PK]

2440MHz



BT-LE(2Mbps)

CSE-DTS [AV]

2440MHz

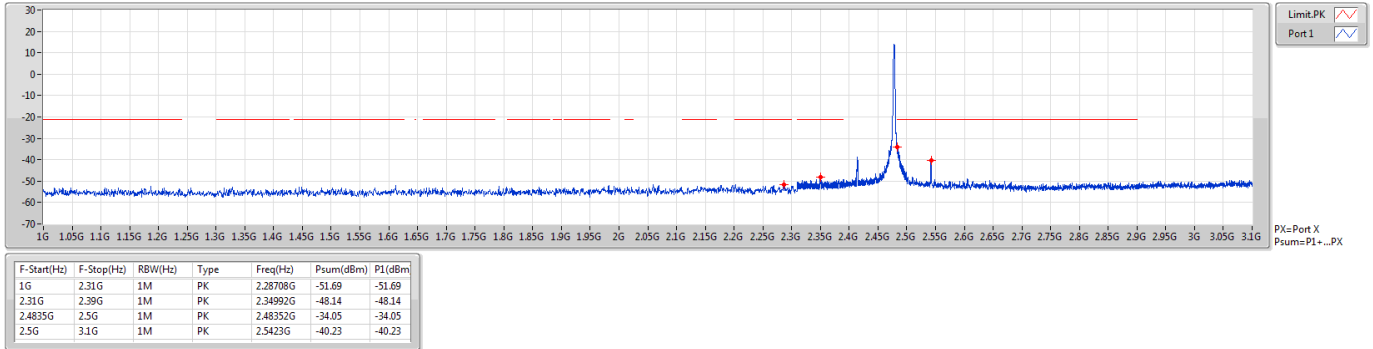




BT-LE(2Mbps)

CSE-DTS [PK]

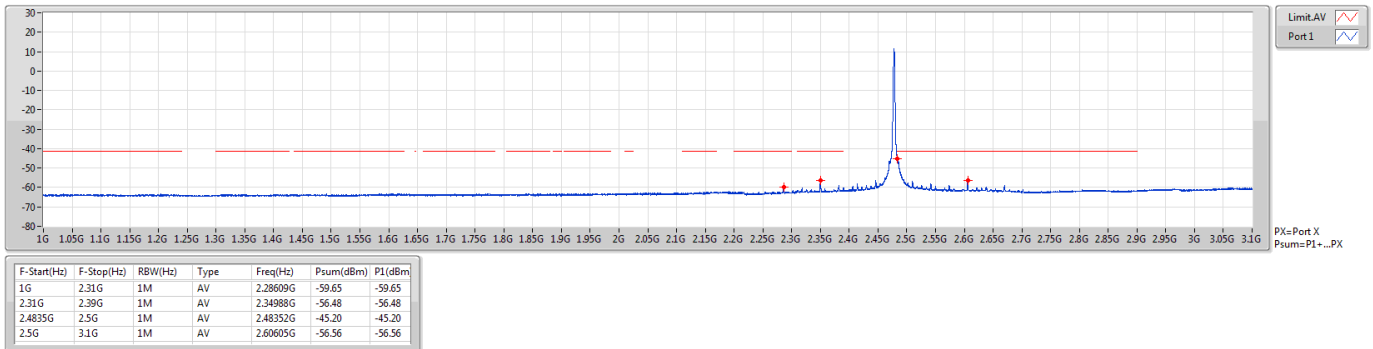
2478MHz



BT-LE(2Mbps)

CSE-DTS [AV]

2478MHz



Transmitter Conducted Unwanted Emissions (3.1GHz ~ 25GHz)
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(125kbps)	Pass	4G	5G	AV	4.804G	2.00	-57.79	-55.79	-41.20	-14.59
BT-LE(500kbps)	Pass	4G	5G	AV	4.87975G	2.00	-52.21	-50.21	-41.20	-9.01
BT-LE(1Mbps)	Pass	4G	5G	AV	4.87975G	2.00	-52.42	-50.42	-41.20	-9.22
BT-LE(2Mbps)	Pass	4G	5G	AV	4.879G	2.00	-53.96	-51.96	-41.20	-10.76

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(125kbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	3.1G	4G	AV	3.3565G	2.00	-74.87	-72.87	-41.20	-31.67
2402MHz	Pass	4G	5G	AV	4.804G	2.00	-57.79	-55.79	-41.20	-14.59
2402MHz	Pass	4G	5G	AV	4.80425G	2.00	-57.79	-55.79	-41.20	-14.59
2402MHz	Pass	5G	7G	AV	5.153G	2.00	-73.68	-71.68	-41.20	-30.48
2402MHz	Pass	7G	8G	AV	7.3605G	2.00	-73.04	-71.04	-41.20	-29.84
2402MHz	Pass	8G	25G	AV	19.61578G	2.00	-65.89	-63.89	-41.20	-22.69
2402MHz	Pass	3.1G	4G	PK	3.97233G	2.00	-64.54	-62.54	-21.20	-41.34
2402MHz	Pass	4G	5G	PK	4.8045G	2.00	-52.74	-50.74	-21.20	-29.54
2402MHz	Pass	4G	5G	PK	4.80475G	2.00	-52.72	-50.72	-21.20	-29.52
2402MHz	Pass	5G	7G	PK	5.442G	2.00	-62.88	-60.88	-21.20	-39.68
2402MHz	Pass	7G	8G	PK	7.58275G	2.00	-63.73	-61.73	-21.20	-40.53
2402MHz	Pass	8G	25G	PK	19.58816G	2.00	-56.05	-54.05	-21.20	-32.85
2440MHz	Pass	3.1G	4G	AV	3.35515G	2.00	-74.60	-72.60	-41.20	-31.40
2440MHz	Pass	4G	5G	AV	4.88G	2.00	-58.19	-56.19	-41.20	-14.99
2440MHz	Pass	5G	7G	AV	5.411G	2.00	-73.63	-71.63	-41.20	-30.43
2440MHz	Pass	7G	8G	AV	7.38975G	2.00	-73.16	-71.16	-41.20	-29.96
2440MHz	Pass	8G	25G	AV	19.65616G	2.00	-65.41	-63.41	-41.20	-22.21
2440MHz	Pass	3.1G	4G	PK	3.54573G	2.00	-63.41	-61.41	-21.20	-40.21
2440MHz	Pass	4G	5G	PK	4.8795G	2.00	-53.17	-51.17	-21.20	-29.97
2440MHz	Pass	5G	7G	PK	5.17G	2.00	-63.37	-61.37	-21.20	-40.17
2440MHz	Pass	7G	8G	PK	7.48575G	2.00	-62.73	-60.73	-21.20	-39.53
2440MHz	Pass	8G	25G	PK	17.94978G	2.00	-55.48	-53.48	-21.20	-32.28
2480MHz	Pass	3.1G	4G	AV	3.35245G	2.00	-74.87	-72.87	-41.20	-31.67
2480MHz	Pass	4G	5G	AV	4.96G	2.00	-59.13	-57.13	-41.20	-15.93
2480MHz	Pass	5G	7G	AV	5.391G	2.00	-73.65	-71.65	-41.20	-30.45
2480MHz	Pass	7G	8G	AV	7.36275G	2.00	-73.01	-71.01	-41.20	-29.81
2480MHz	Pass	8G	25G	AV	19.63863G	2.00	-65.65	-63.65	-41.20	-22.45
2480MHz	Pass	3.1G	4G	PK	3.97525G	2.00	-64.58	-62.58	-21.20	-41.38
2480MHz	Pass	4G	5G	PK	4.9595G	2.00	-54.37	-52.37	-21.20	-31.17
2480MHz	Pass	4G	5G	PK	4.96075G	2.00	-53.97	-51.97	-21.20	-30.77
2480MHz	Pass	5G	7G	PK	5.122G	2.00	-62.99	-60.99	-21.20	-39.79
2480MHz	Pass	7G	8G	PK	7.3495G	2.00	-63.11	-61.11	-21.20	-39.91
2480MHz	Pass	8G	25G	PK	17.96519G	2.00	-55.64	-53.64	-21.20	-32.44
BT-LE(500kbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	3.1G	4G	AV	3.98673G	2.00	-76.29	-74.29	-41.20	-33.09
2402MHz	Pass	4G	5G	AV	4.80375G	2.00	-52.77	-50.77	-41.20	-9.57
2402MHz	Pass	5G	7G	AV	5.0465G	2.00	-74.35	-72.35	-41.20	-31.15
2402MHz	Pass	7G	8G	AV	7.61275G	2.00	-73.36	-71.36	-41.20	-30.16
2402MHz	Pass	8G	25G	AV	19.90213G	2.00	-63.61	-61.61	-41.20	-20.41
2402MHz	Pass	3.1G	4G	PK	3.78895G	2.00	-65.31	-63.31	-21.20	-42.11
2402MHz	Pass	4G	5G	PK	4.80375G	2.00	-48.72	-46.72	-21.20	-25.52

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2402MHz	Pass	5G	7G	PK	5.2475G	2.00	-64.15	-62.15	-21.20	-40.95
2402MHz	Pass	7G	8G	PK	7.58525G	2.00	-63.25	-61.25	-21.20	-40.05
2402MHz	Pass	8G	25G	PK	19.85325G	2.00	-53.88	-51.88	-21.20	-30.68
2440MHz	Pass	3.1G	4G	AV	3.99663G	2.00	-76.41	-74.41	-41.20	-33.21
2440MHz	Pass	4G	5G	AV	4.87975G	2.00	-52.21	-50.21	-41.20	-9.01
2440MHz	Pass	5G	7G	AV	5.054G	2.00	-73.94	-71.94	-41.20	-30.74
2440MHz	Pass	7G	8G	AV	7.3205G	2.00	-68.95	-66.95	-41.20	-25.75
2440MHz	Pass	8G	25G	AV	19.87344G	2.00	-63.34	-61.34	-41.20	-20.14
2440MHz	Pass	3.1G	4G	PK	3.9604G	2.00	-66.26	-64.26	-21.20	-43.06
2440MHz	Pass	4G	5G	PK	4.87975G	2.00	-48.70	-46.70	-21.20	-25.50
2440MHz	Pass	5G	7G	PK	5.0725G	2.00	-64.00	-62.00	-21.20	-40.80
2440MHz	Pass	7G	8G	PK	7.3195G	2.00	-61.25	-59.25	-21.20	-38.05
2440MHz	Pass	8G	25G	PK	19.832G	2.00	-54.23	-52.23	-21.20	-31.03
2480MHz	Pass	3.1G	4G	AV	3.99078G	2.00	-76.25	-74.25	-41.20	-33.05
2480MHz	Pass	4G	5G	AV	4.95975G	2.00	-57.68	-55.68	-41.20	-14.48
2480MHz	Pass	4G	5G	AV	4.96G	2.00	-57.68	-55.68	-41.20	-14.48
2480MHz	Pass	5G	7G	AV	5.028G	2.00	-73.99	-71.99	-41.20	-30.79
2480MHz	Pass	7G	8G	AV	7.43925G	2.00	-72.12	-70.12	-41.20	-28.92
2480MHz	Pass	8G	25G	AV	19.83147G	2.00	-63.40	-61.40	-41.20	-20.20
2480MHz	Pass	3.1G	4G	PK	3.88953G	2.00	-65.31	-63.31	-21.20	-42.11
2480MHz	Pass	4G	5G	PK	4.95975G	2.00	-53.23	-51.23	-21.20	-30.03
2480MHz	Pass	5G	7G	PK	5.2375G	2.00	-63.51	-61.51	-21.20	-40.31
2480MHz	Pass	7G	8G	PK	7.61825G	2.00	-63.46	-61.46	-21.20	-40.26
2480MHz	Pass	8G	25G	PK	19.849G	2.00	-53.92	-51.92	-21.20	-30.72
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	3.1G	4G	AV	3.98178G	2.00	-76.33	-74.33	-41.20	-33.13
2402MHz	Pass	4G	5G	AV	4.804G	2.00	-52.56	-50.56	-41.20	-9.36
2402MHz	Pass	5G	7G	AV	5.014G	2.00	-74.12	-72.12	-41.20	-30.92
2402MHz	Pass	7G	8G	AV	7.573G	2.00	-73.56	-71.56	-41.20	-30.36
2402MHz	Pass	8G	25G	AV	19.86866G	2.00	-63.38	-61.38	-41.20	-20.18
2402MHz	Pass	3.1G	4G	PK	3.82923G	2.00	-66.24	-64.24	-21.20	-43.04
2402MHz	Pass	4G	5G	PK	4.80375G	2.00	-48.75	-46.75	-21.20	-25.55
2402MHz	Pass	5G	7G	PK	5.231G	2.00	-63.82	-61.82	-21.20	-40.62
2402MHz	Pass	7G	8G	PK	7.58875G	2.00	-63.25	-61.25	-21.20	-40.05
2402MHz	Pass	8G	25G	PK	19.81075G	2.00	-54.07	-52.07	-21.20	-30.87
2440MHz	Pass	3.1G	4G	AV	3.98403G	2.00	-76.31	-74.31	-41.20	-33.11
2440MHz	Pass	4G	5G	AV	4.87975G	2.00	-52.42	-50.42	-41.20	-9.22
2440MHz	Pass	5G	7G	AV	5.0315G	2.00	-73.96	-71.96	-41.20	-30.76
2440MHz	Pass	7G	8G	AV	7.31925G	2.00	-68.72	-66.72	-41.20	-25.52
2440MHz	Pass	8G	25G	AV	19.90531G	2.00	-63.49	-61.49	-41.20	-20.29
2440MHz	Pass	3.1G	4G	PK	3.93835G	2.00	-65.95	-63.95	-21.20	-42.75
2440MHz	Pass	4G	5G	PK	4.87975G	2.00	-48.63	-46.63	-21.20	-25.43

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2440MHz	Pass	5G	7G	PK	5.0435G	2.00	-64.28	-62.28	-21.20	-41.08
2440MHz	Pass	7G	8G	PK	7.321G	2.00	-62.12	-60.12	-21.20	-38.92
2440MHz	Pass	8G	25G	PK	19.594G	2.00	-53.48	-51.48	-21.20	-30.28
2480MHz	Pass	3.1G	4G	AV	3.99483G	2.00	-76.43	-74.43	-41.20	-33.23
2480MHz	Pass	4G	5G	AV	4.96025G	2.00	-57.88	-55.88	-41.20	-14.68
2480MHz	Pass	5G	7G	AV	5.0625G	2.00	-74.26	-72.26	-41.20	-31.06
2480MHz	Pass	7G	8G	AV	7.4405G	2.00	-71.95	-69.95	-41.20	-28.75
2480MHz	Pass	8G	25G	AV	19.84847G	2.00	-63.55	-61.55	-41.20	-20.35
2480MHz	Pass	3.1G	4G	PK	3.95838G	2.00	-65.69	-63.69	-21.20	-42.49
2480MHz	Pass	4G	5G	PK	4.95975G	2.00	-53.47	-51.47	-21.20	-30.27
2480MHz	Pass	5G	7G	PK	5.2285G	2.00	-63.72	-61.72	-21.20	-40.52
2480MHz	Pass	7G	8G	PK	7.29075G	2.00	-63.25	-61.25	-21.20	-40.05
2480MHz	Pass	8G	25G	PK	19.85856G	2.00	-53.15	-51.15	-21.20	-29.95
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2404MHz	Pass	3.1G	4G	AV	3.98245G	2.00	-76.11	-74.11	-41.20	-32.91
2404MHz	Pass	4G	5G	AV	4.80725G	2.00	-55.20	-53.20	-41.20	-12.00
2404MHz	Pass	4G	5G	AV	4.809G	2.00	-54.86	-52.86	-41.20	-11.66
2404MHz	Pass	5G	7G	AV	5.0405G	2.00	-74.14	-72.14	-41.20	-30.94
2404MHz	Pass	7G	8G	AV	7.614G	2.00	-73.78	-71.78	-41.20	-30.58
2404MHz	Pass	8G	25G	AV	19.86069G	2.00	-63.57	-61.57	-41.20	-20.37
2404MHz	Pass	3.1G	4G	PK	3.62628G	2.00	-66.08	-64.08	-21.20	-42.88
2404MHz	Pass	4G	5G	PK	4.807G	2.00	-48.92	-46.92	-21.20	-25.72
2404MHz	Pass	4G	5G	PK	4.80725G	2.00	-48.96	-46.96	-21.20	-25.76
2404MHz	Pass	5G	7G	PK	5.214G	2.00	-63.85	-61.85	-21.20	-40.65
2404MHz	Pass	7G	8G	PK	7.65325G	2.00	-62.36	-60.36	-21.20	-39.16
2404MHz	Pass	8G	25G	PK	19.82669G	2.00	-53.69	-51.69	-21.20	-30.49
2440MHz	Pass	3.1G	4G	AV	3.99393G	2.00	-76.44	-74.44	-41.20	-33.24
2440MHz	Pass	4G	5G	AV	4.879G	2.00	-53.96	-51.96	-41.20	-10.76
2440MHz	Pass	4G	5G	AV	4.87925G	2.00	-54.17	-52.17	-41.20	-10.97
2440MHz	Pass	5G	7G	AV	5.0445G	2.00	-74.14	-72.14	-41.20	-30.94
2440MHz	Pass	7G	8G	AV	7.3185G	2.00	-69.44	-67.44	-41.20	-26.24
2440MHz	Pass	8G	25G	AV	19.88141G	2.00	-63.17	-61.17	-41.20	-19.97
2440MHz	Pass	3.1G	4G	PK	3.64383G	2.00	-66.01	-64.01	-21.20	-42.81
2440MHz	Pass	4G	5G	PK	4.87925G	2.00	-48.96	-46.96	-21.20	-25.76
2440MHz	Pass	4G	5G	PK	4.88125G	2.00	-48.89	-46.89	-21.20	-25.69
2440MHz	Pass	5G	7G	PK	5.042G	2.00	-63.55	-61.55	-21.20	-40.35
2440MHz	Pass	7G	8G	PK	7.32125G	2.00	-62.45	-60.45	-21.20	-39.25
2440MHz	Pass	8G	25G	PK	19.89947G	2.00	-54.26	-52.26	-21.20	-31.06
2478MHz	Pass	3.1G	4G	AV	3.5248G	2.00	-76.25	-74.25	-41.20	-33.05
2478MHz	Pass	4G	5G	AV	4.95675G	2.00	-62.34	-60.34	-41.20	-19.14
2478MHz	Pass	4G	5G	AV	4.957G	2.00	-61.89	-59.89	-41.20	-18.69
2478MHz	Pass	5G	7G	AV	5.0465G	2.00	-74.35	-72.35	-41.20	-31.15



Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2478MHz	Pass	7G	8G	AV	7.6015G	2.00	-73.56	-71.56	-41.20	-30.36
2478MHz	Pass	8G	25G	AV	19.85697G	2.00	-63.59	-61.59	-41.20	-20.39
2478MHz	Pass	3.1G	4G	PK	3.9712G	2.00	-65.28	-63.28	-21.20	-42.08
2478MHz	Pass	4G	5G	PK	4.95525G	2.00	-55.53	-53.53	-21.20	-32.33
2478MHz	Pass	5G	7G	PK	5.0325G	2.00	-63.70	-61.70	-21.20	-40.50
2478MHz	Pass	7G	8G	PK	7.4435G	2.00	-63.19	-61.19	-21.20	-39.99
2478MHz	Pass	8G	25G	PK	19.32041G	2.00	-54.53	-52.53	-21.20	-31.33

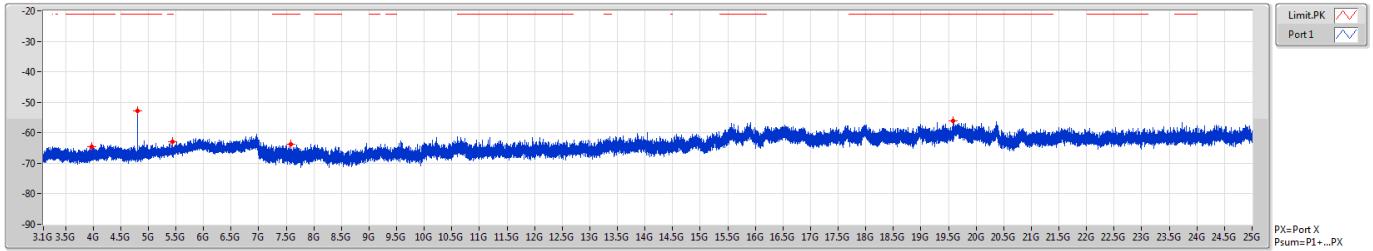
DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX



BT-LE(125kbps)

CSE-DTS [PK]

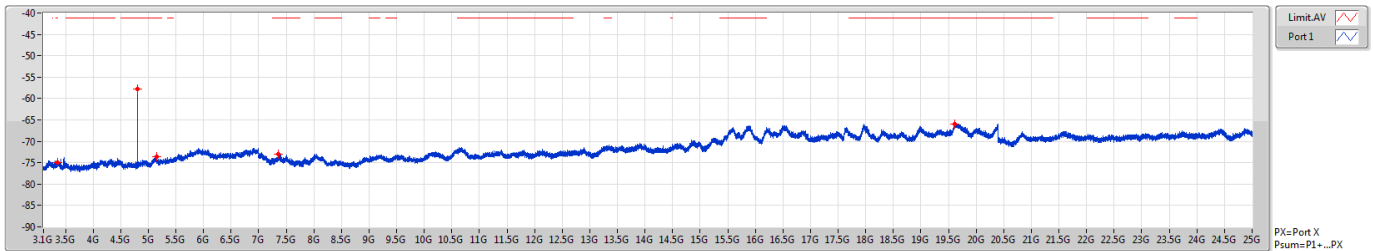
2402MHz



BT-LE(125kbps)

CSE-DTS [AV]

2402MHz

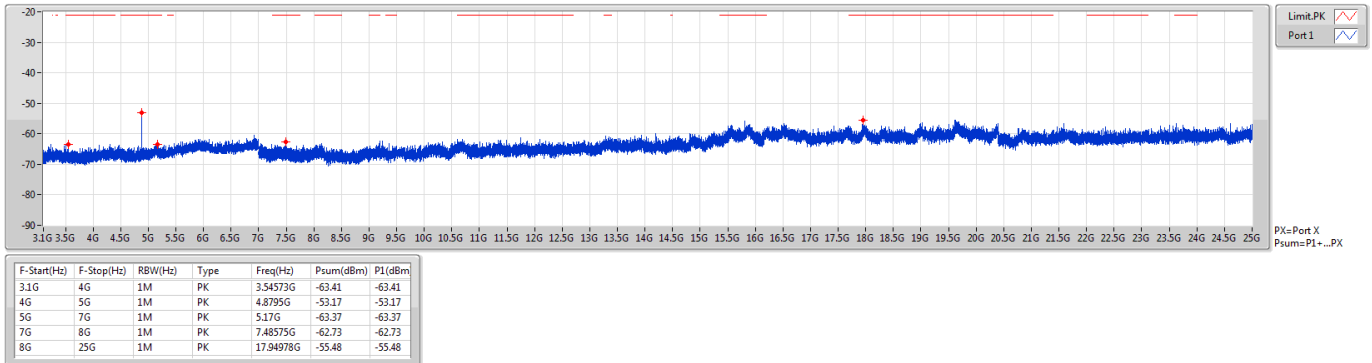




BT-LE(125kbps)

CSE-DTS [PK]

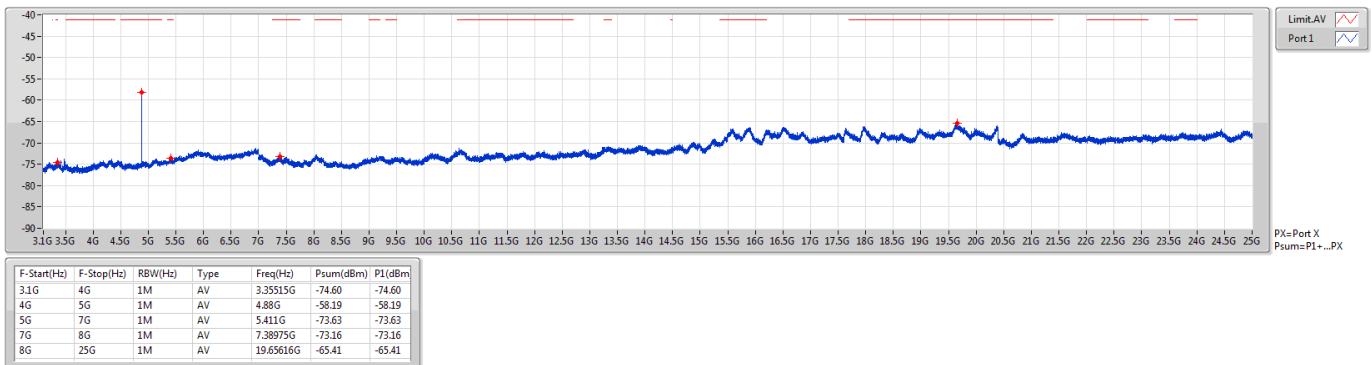
2440MHz



BT-LE(125kbps)

CSE-DTS [AV]

2440MHz

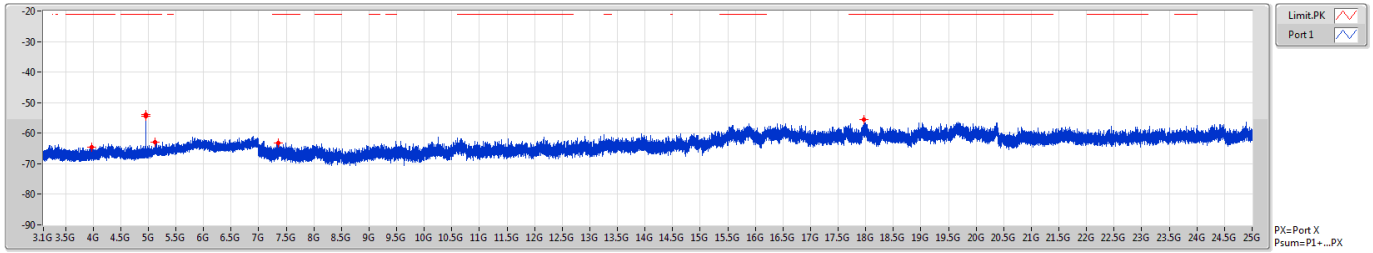




BT-LE(125kbps)

CSE-DTS [PK]

2480MHz

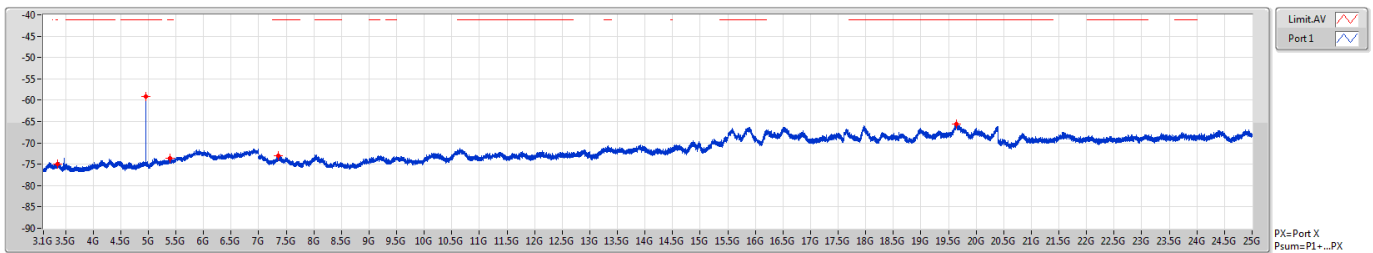


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	PK	3.97525G	-64.58	-64.58
4G	5G	1M	PK	4.9595G	-54.37	-54.37
4G	5G	1M	PK	4.96075G	-53.97	-53.97
5G	7G	1M	PK	5.122G	-62.99	-62.99
7G	8G	1M	PK	7.3495G	-63.11	-63.11
8G	25G	1M	PK	17.96519G	-55.64	-55.64

BT-LE(125kbps)

CSE-DTS [AV]

2480MHz



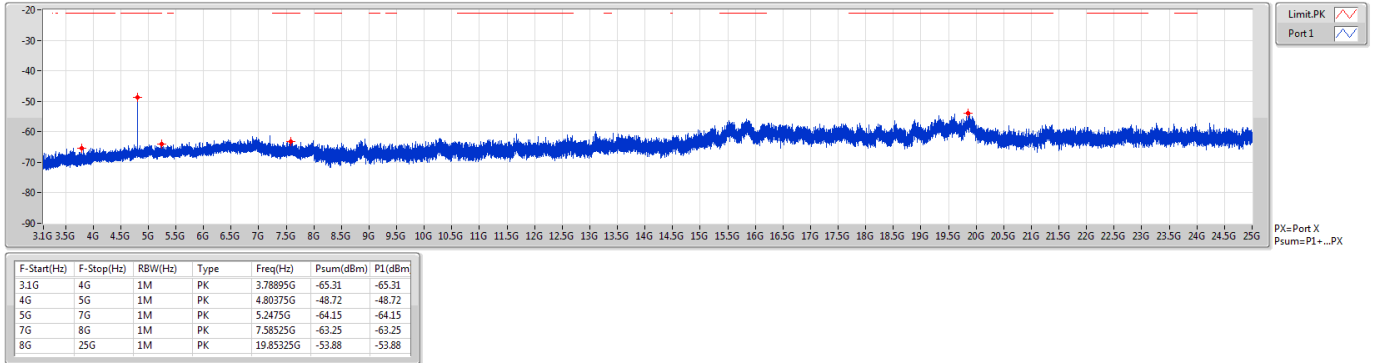
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	AV	3.35345G	-74.87	-74.87
4G	5G	1M	AV	4.96G	-59.13	-59.13
5G	7G	1M	AV	5.391G	-73.65	-73.65
7G	8G	1M	AV	7.36275G	-73.01	-73.01
8G	25G	1M	AV	19.63863G	-65.65	-65.65



BT-LE(500kbps)

CSE-DTS [PK]

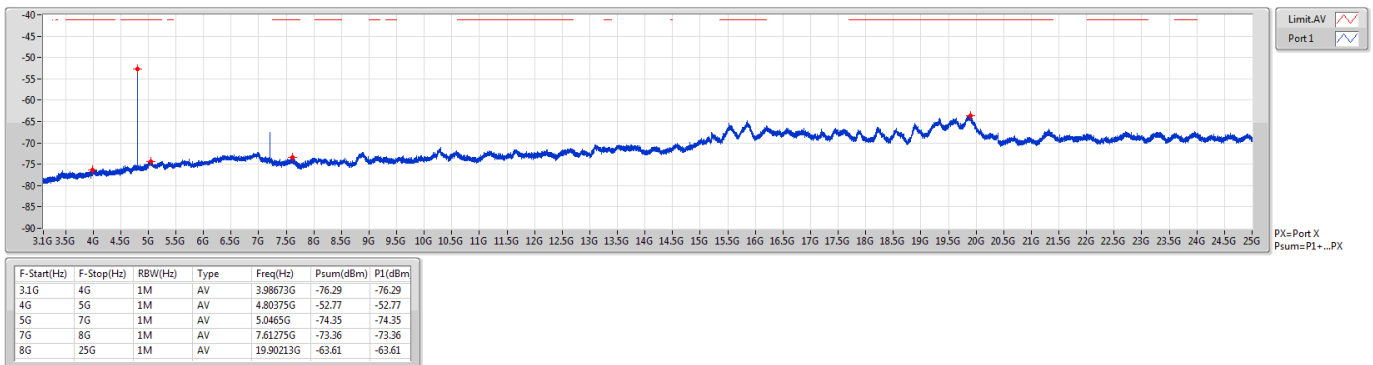
2402MHz



BT-LE(500kbps)

CSE-DTS [AV]

2402MHz

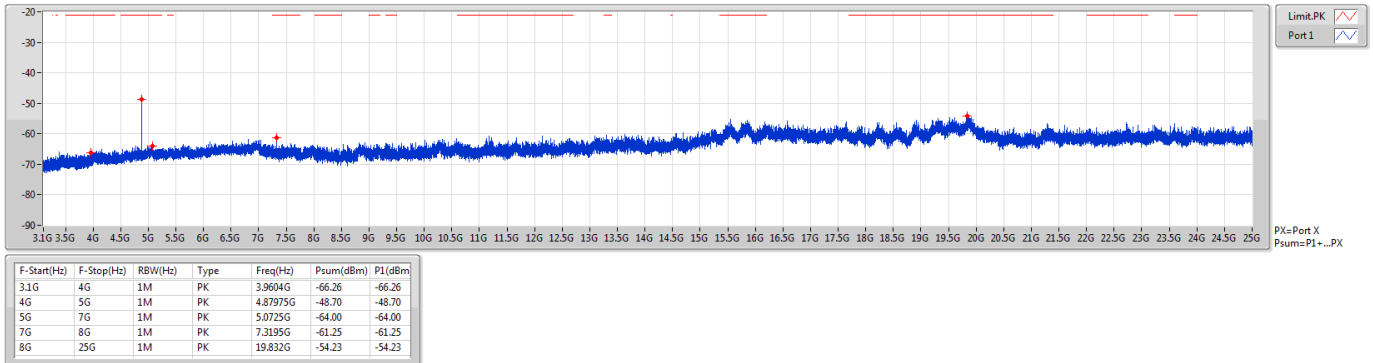




BT-LE(500kbps)

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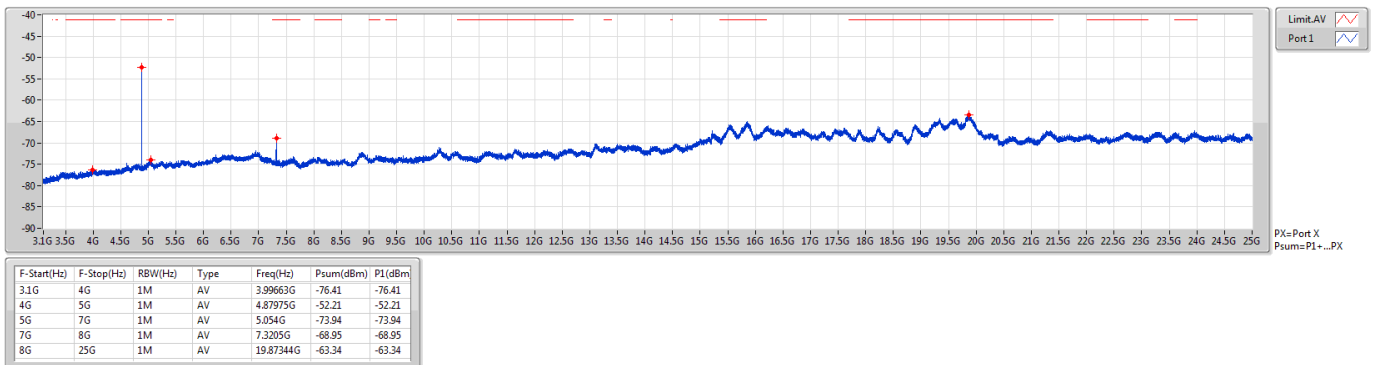
2440MHz



BT-LE(500kbps)

CSE-DTS [AV]

2440MHz

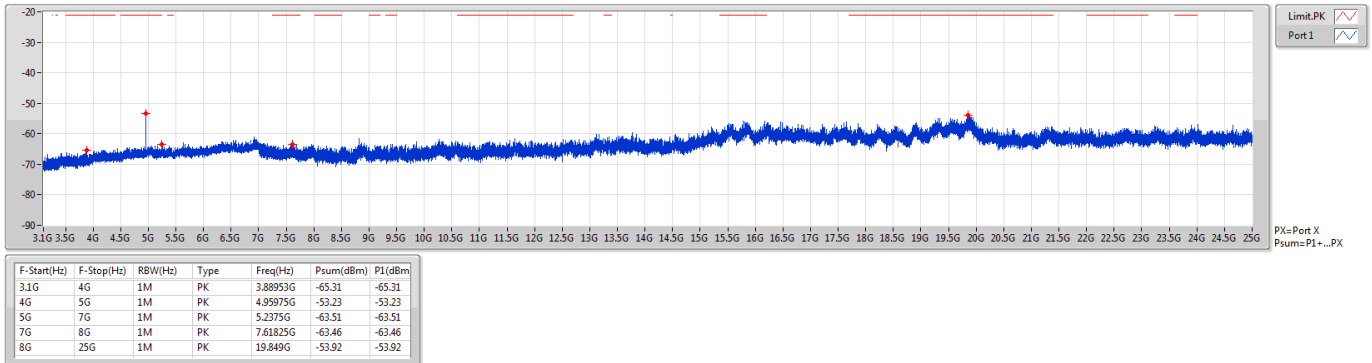




BT-LE(500kbps)

CSE-DTS [PK]

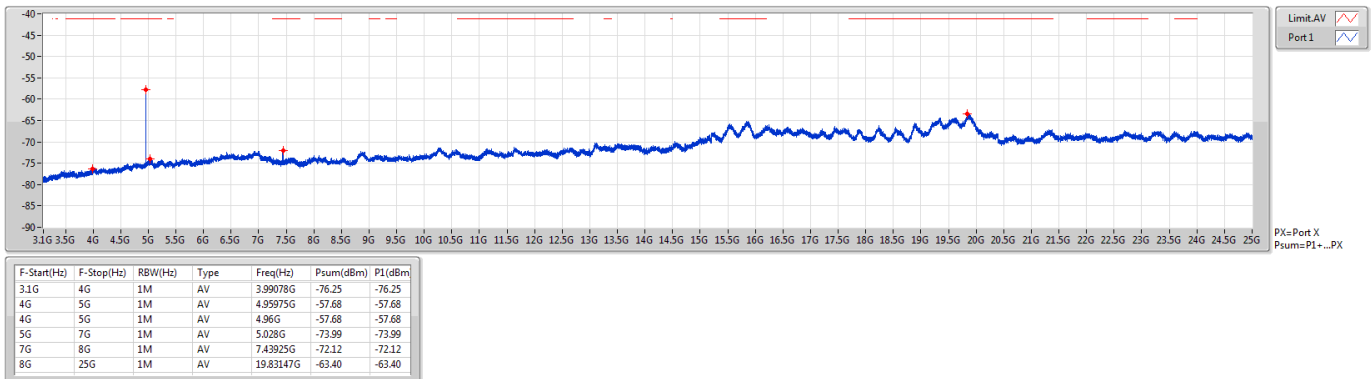
2480MHz



BT-LE(500kbps)

CSE-DTS [AV]

2480MHz

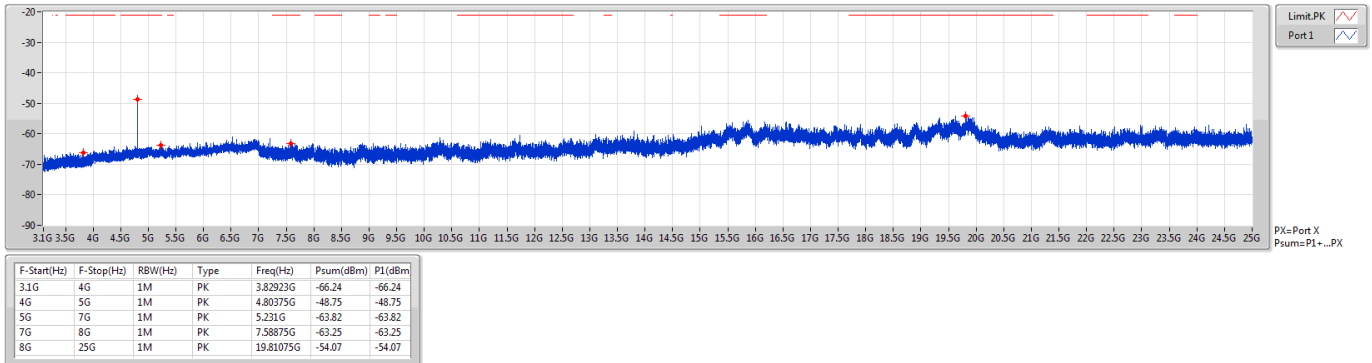




BT-LE(1Mbps)

CSE-DTS [PK]

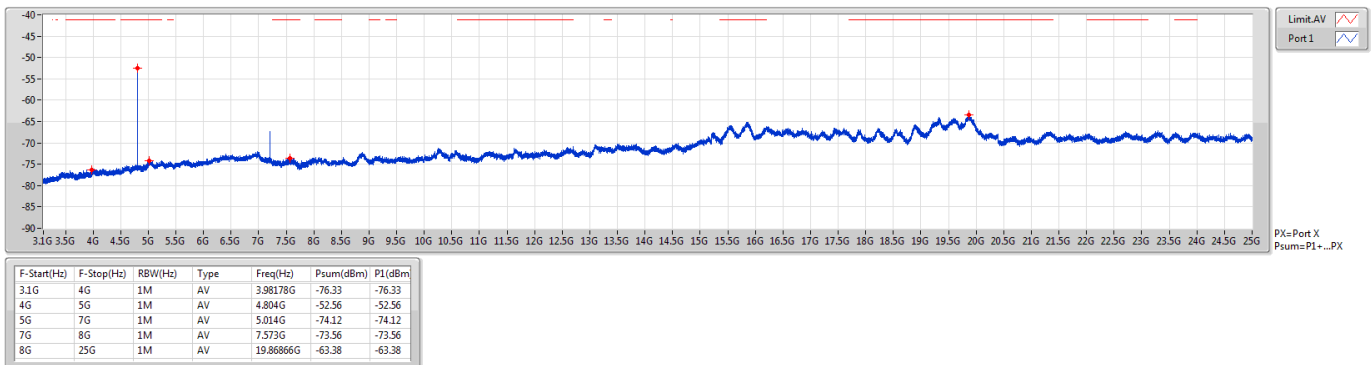
2402MHz



BT-LE(1Mbps)

CSE-DTS [AV]

2402MHz

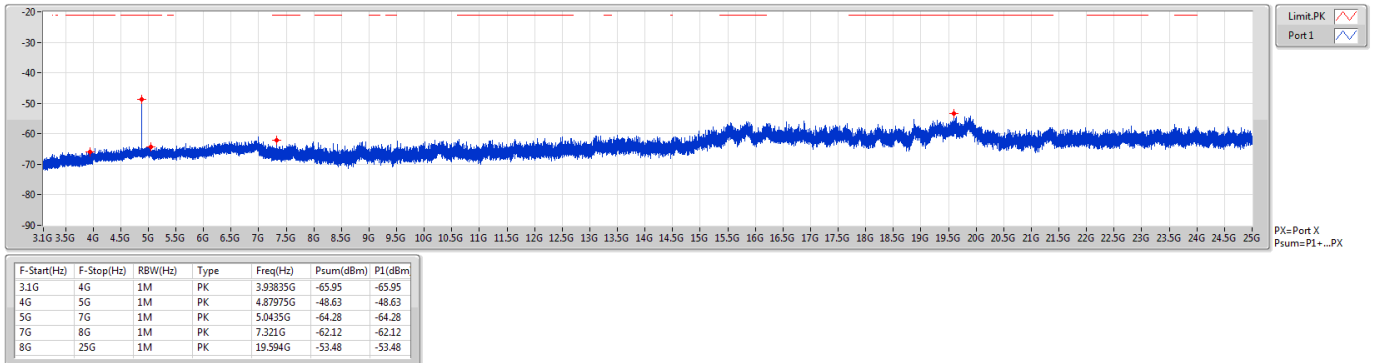




BT-LE(1Mbps)

CSE-DTS [PK]

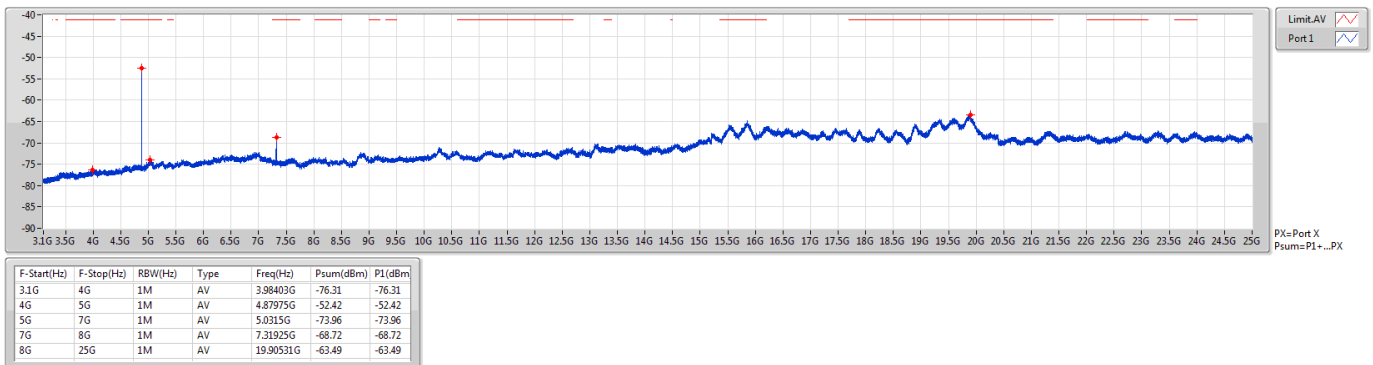
2440MHz



BT-LE(1Mbps)

CSE-DTS [AV]

2440MHz

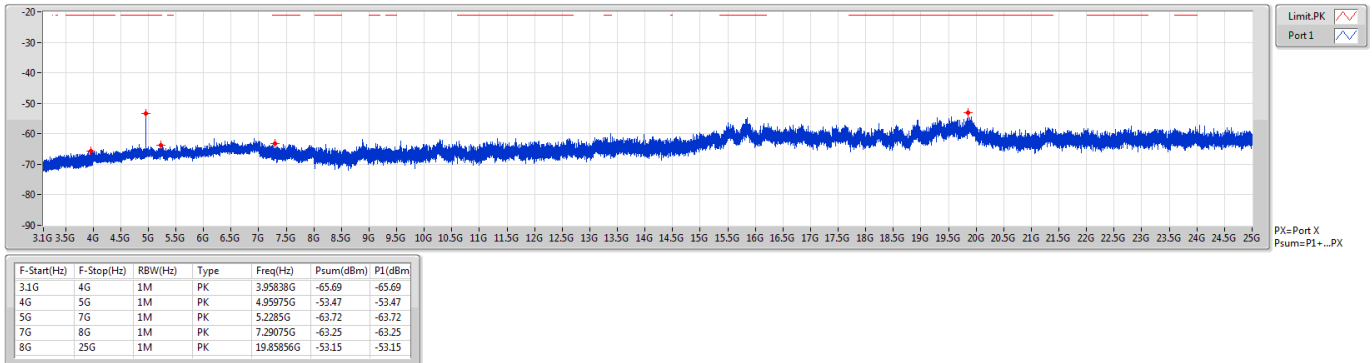




BT-LE(1Mbps)

CSE-DTS [PK]

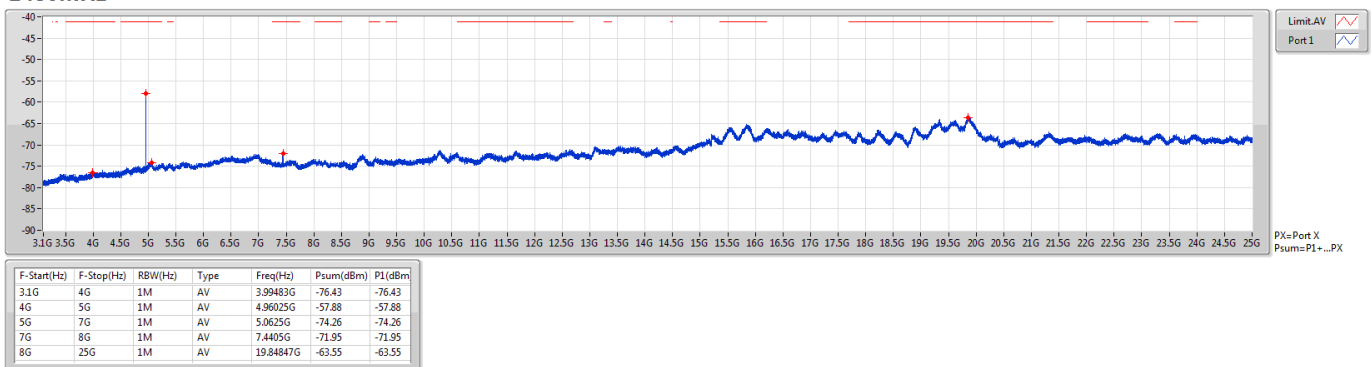
2480MHz



BT-LE(1Mbps)

CSE-DTS [AV]

2480MHz

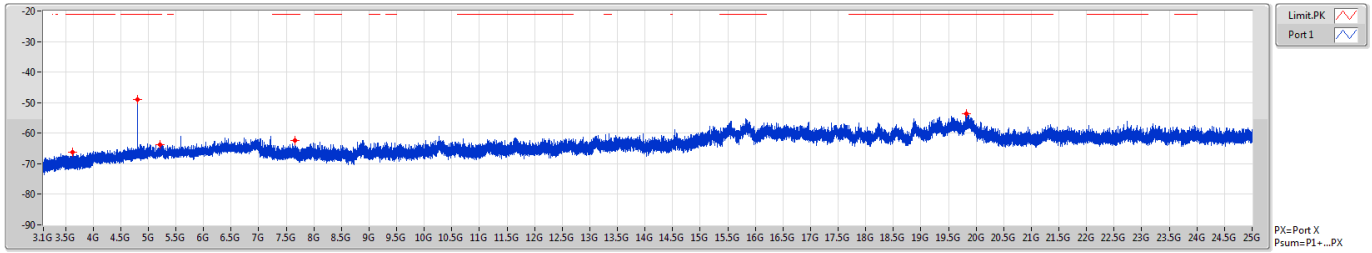




BT-LE(2Mbps)

CSE-DTS [PK]

2404MHz

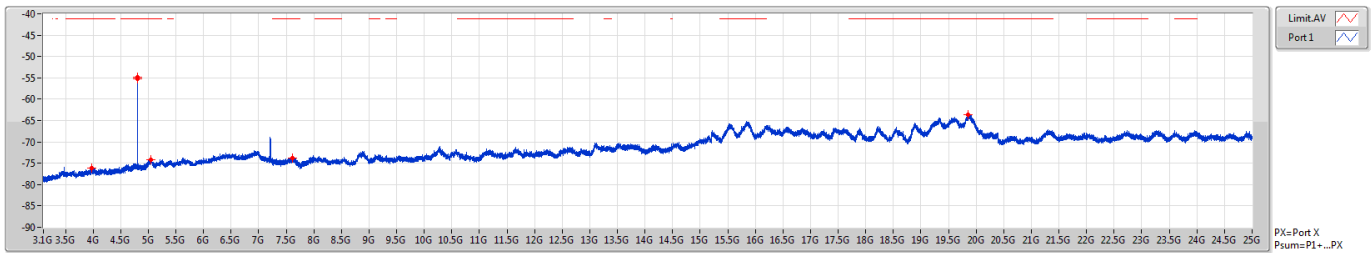


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	PK	3.62628G	-66.08	-66.08
4G	5G	1M	PK	4.807G	-48.92	-48.92
4G	5G	1M	PK	4.80725G	-48.96	-48.96
5G	7G	1M	PK	5.214G	-63.85	-63.85
7G	8G	1M	PK	7.65325G	-62.36	-62.36
8G	25G	1M	PK	19.82669G	-53.69	-53.69

BT-LE(2Mbps)

CSE-DTS [AV]

2404MHz



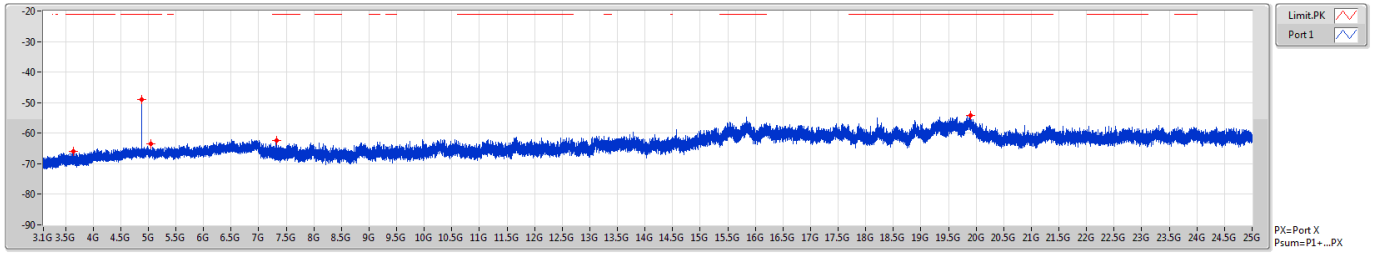
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	AV	3.98245G	-76.11	-76.11
4G	5G	1M	AV	4.80725G	-55.20	-55.20
4G	5G	1M	AV	4.809G	-54.86	-54.86
5G	7G	1M	AV	5.0405G	-74.14	-74.14
7G	8G	1M	AV	7.614G	-73.78	-73.78
8G	25G	1M	AV	19.88069G	-63.57	-63.57



BT-LE(2Mbps)

CSE-DTS [PK]

2440MHz

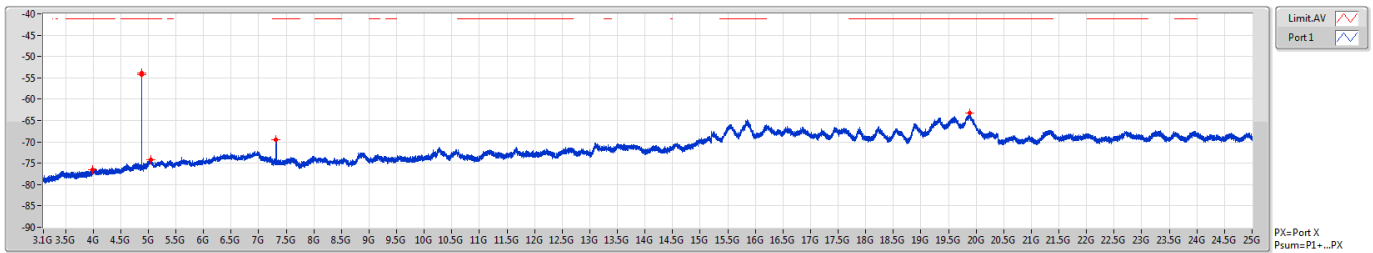


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	PK	3.64383G	-66.01	-66.01
4G	5G	1M	PK	4.87925G	-48.96	-48.96
4G	5G	1M	PK	4.88125G	-48.89	-48.89
5G	7G	1M	PK	5.042G	-63.55	-63.55
7G	8G	1M	PK	7.32125G	-62.45	-62.45
8G	25G	1M	PK	19.89947G	-54.26	-54.26

BT-LE(2Mbps)

CSE-DTS [AV]

2440MHz



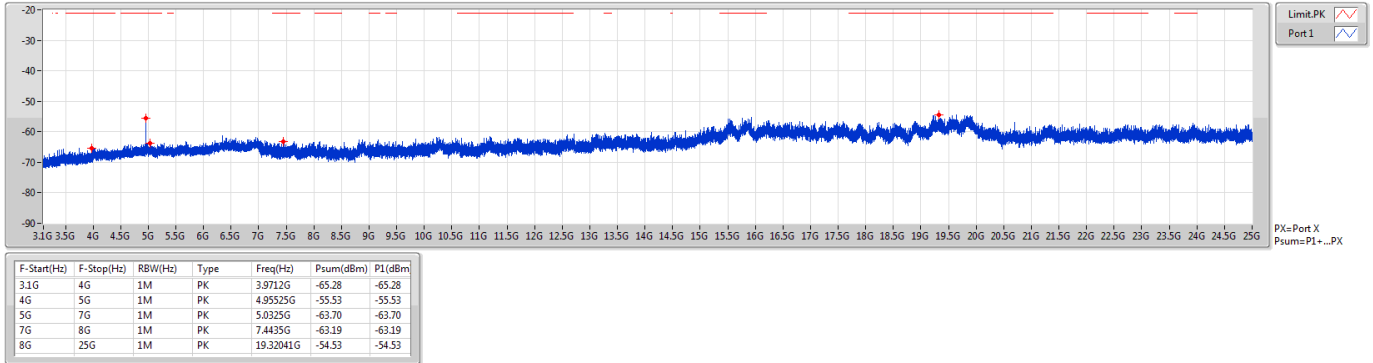
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	AV	3.99393G	-76.44	-76.44
4G	5G	1M	AV	4.879G	-53.96	-53.96
4G	5G	1M	AV	4.87925G	-54.17	-54.17
5G	7G	1M	AV	5.0445G	-74.14	-74.14
7G	8G	1M	AV	7.3185G	-69.44	-69.44
8G	25G	1M	AV	19.88141G	-63.17	-63.17



BT-LE(2Mbps)

CSE-DTS [PK]

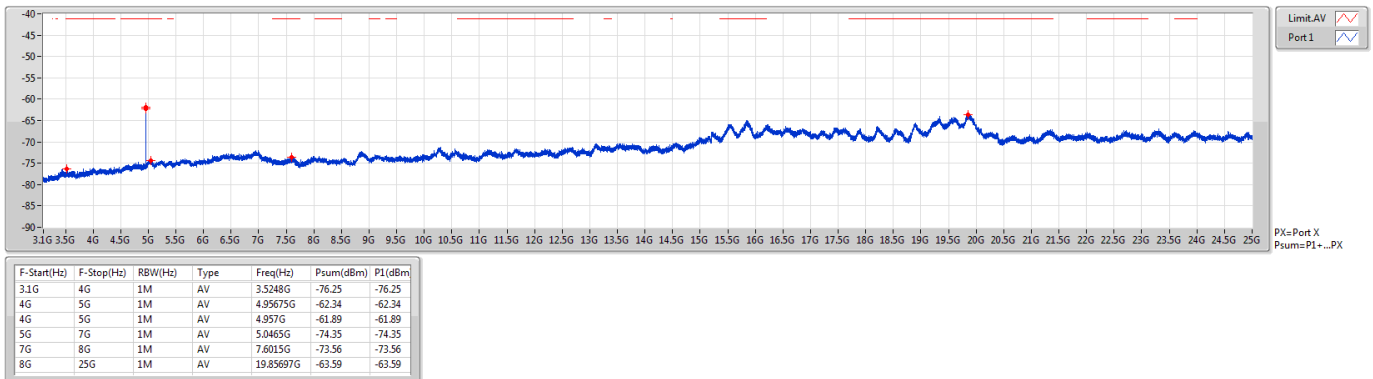
2478MHz



BT-LE(2Mbps)

CSE-DTS [AV]

2478MHz



Internal antenna

Unwanted Emissions (Below 1GHz)

Modulation	BT-LE (1Mbps)		Test Freq. (MHz)		2440	
Polarization	Horizontal					
Test By :Sean Yu		Temperature(°C):24		Humidity(%):63		
Level (dBUV/m)						



Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2440
Polarization	Vertical		
Test By :Sean Yu Temperature(°C):24 Humidity(%):63			
Level (dBuV/m)			

Unwanted Emissions (Above 1GHz)

Modulation	BT-LE (125kbps)	Test Freq. (MHz)	2402
Polarization	Horizontal		
Test By :Sean Yu Temperature(°C):25 Humidity(%):61			
Level (dBUV/m)			



Modulation	BT-LE (125kbps)		Test Freq. (MHz)		2402		
Polarization	Vertical						
Test By		:Sean Yu		Temperature(°C):25		Humidity(%):61	
Level (dBuV/m)							



Modulation	BT-LE (125kbps)	Test Freq. (MHz)	2440
Polarization	Horizontal		
Test By :Sean Yu Temperature(°C):25 Humidity(%):61			
Level (dBuV/m) <			



Modulation	BT-LE (125kbps)		Test Freq. (MHz)		2440		
Polarization	Vertical						
Test By		:Sean Yu		Temperature(°C):25		Humidity(%):61	
Level (dBuV/m) </							



Modulation	BT-LE (125kbps)		Test Freq. (MHz)		2480		
Polarization	Horizontal						
Test By		:Sean Yu		Temperature(°C):25		Humidity(%):61	
Level (dBuV/m) </							



Modulation	BT-LE (125kbps)		Test Freq. (MHz)		2480		
Polarization	Vertical						
Test By		:Sean Yu		Temperature(°C):25		Humidity(%):61	
Level (dBuV/m)							



Modulation	BT-LE (500kbps)		Test Freq. (MHz)		2402		
Polarization	Horizontal						
Test By		:Sean Yu		Temperature(°C):25		Humidity(%):61	
Level (dBuV/m) <							



Modulation	BT-LE (500kbps)		Test Freq. (MHz)		2402		
Polarization	Vertical						
Test By		:Sean Yu		Temperature(°C):25		Humidity(%):61	
Level (dBuV/m) </							



Modulation	BT-LE (500kbps)		Test Freq. (MHz)		2440		
Polarization	Horizontal						
Test By		:Sean Yu		Temperature(°C):25		Humidity(%):61	
Level (dBuV/m)							



Modulation	BT-LE (500kbps)		Test Freq. (MHz)		2440	
Polarization	Vertical					
Test By :Sean Yu Temperature(°C):25 Humidity(%):61						
Level (dBuV/m)						



Modulation	BT-LE (500kbps)		Test Freq. (MHz)		2480		
Polarization	Horizontal						
Test By		:Sean Yu		Temperature(°C):25		Humidity(%):61	
Level (dBuV/m) </							



Modulation	BT-LE (500kbps)		Test Freq. (MHz)		2480				
Polarization	Vertical								
Test By :Sean Yu			Temperature(°C):25			Humidity(%):61			
Level (dBuV/m)									



Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2402
Polarization	Horizontal		
Test By :Sean Yu Temperature(°C):25 Humidity(%):61			
Level (dBUV/m)			



Modulation	BT-LE (1Mbps)		Test Freq. (MHz)		2402				
Polarization	Vertical								
Test By :Sean Yu			Temperature(°C):25			Humidity(%):61			
Level (dBuV/m)									



Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2440
Polarization	Horizontal		
Test By :Sean Yu Temperature(°C):25 Humidity(%):61			
Level (dBuV/m) </			



Modulation	BT-LE (1Mbps)		Test Freq. (MHz)		2440	
Polarization	Vertical					
Test By :Sean Yu Temperature(°C):25 Humidity(%):61						
Level (dBuV/m)						



Modulation	BT-LE (1Mbps)		Test Freq. (MHz)		2480		
Polarization	Horizontal						
Test By		:Sean Yu		Temperature(°C):25		Humidity(%):61	
Level (dBuV/m) <							



Modulation	BT-LE (1Mbps)		Test Freq. (MHz)		2480		
Polarization	Vertical						
Test By		:Sean Yu		Temperature(°C):25		Humidity(%):61	
Level (dBuV/m)							



Modulation	BT-LE (2Mbps)		Test Freq. (MHz)		2404		
Polarization	Horizontal						
Test By		:Sean Yu		Temperature(°C):25		Humidity(%):61	
Level (dBuV/m)							



Modulation	BT-LE (2Mbps)		Test Freq. (MHz)		2404		
Polarization	Vertical						
Test By		:Sean Yu		Temperature(°C):25		Humidity(%):61	
Level (dBuV/m) <							



Modulation	BT-LE (2Mbps)		Test Freq. (MHz)		2440		
Polarization	Horizontal						
Test By		:Sean Yu		Temperature(°C):25		Humidity(%):61	
Level (dBuV/m) </							



Modulation	BT-LE (2Mbps)		Test Freq. (MHz)		2440		
Polarization	Vertical						
Test By		:Sean Yu		Temperature(°C):25		Humidity(%):61	
Level (dBUV/m) </							



Modulation	BT-LE (2Mbps)		Test Freq. (MHz)		2478		
Polarization	Horizontal						
Test By		:Sean Yu		Temperature(°C):25		Humidity(%):61	
Level (dBuV/m) <							

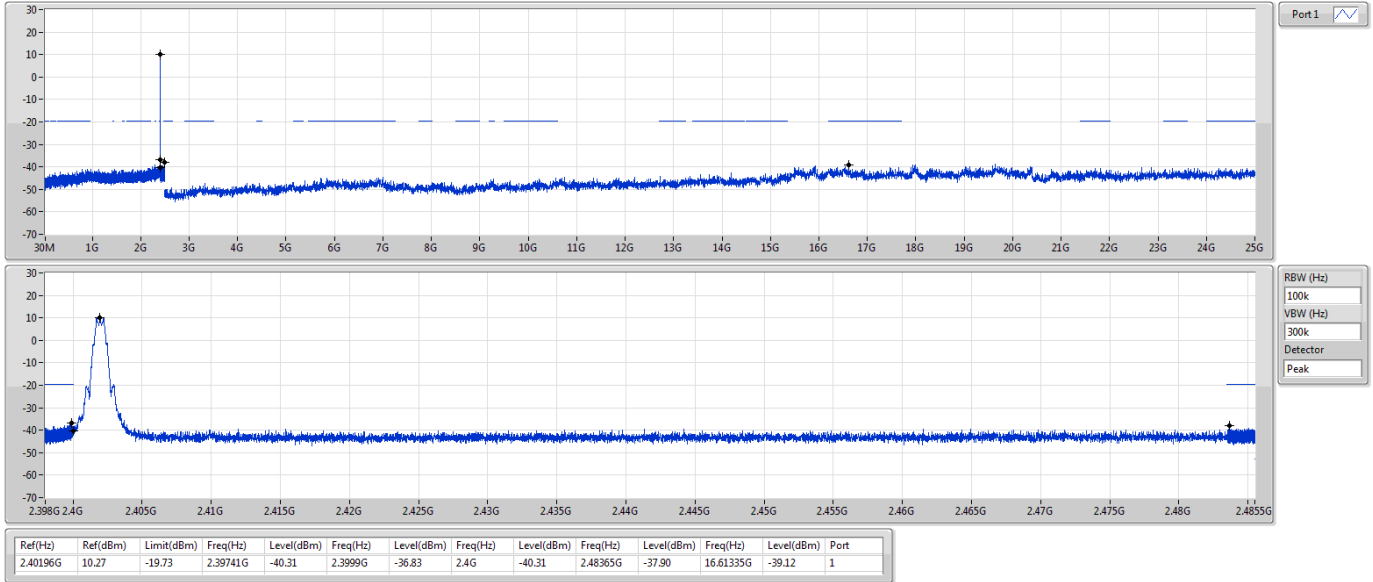


Modulation	BT-LE (2Mbps)		Test Freq. (MHz)		2478		
Polarization	Vertical						
Test By		:Sean Yu		Temperature(°C):25		Humidity(%):61	
Level (dBuV/m)							

BT-LE(125kbps)

CSEndB-DTS

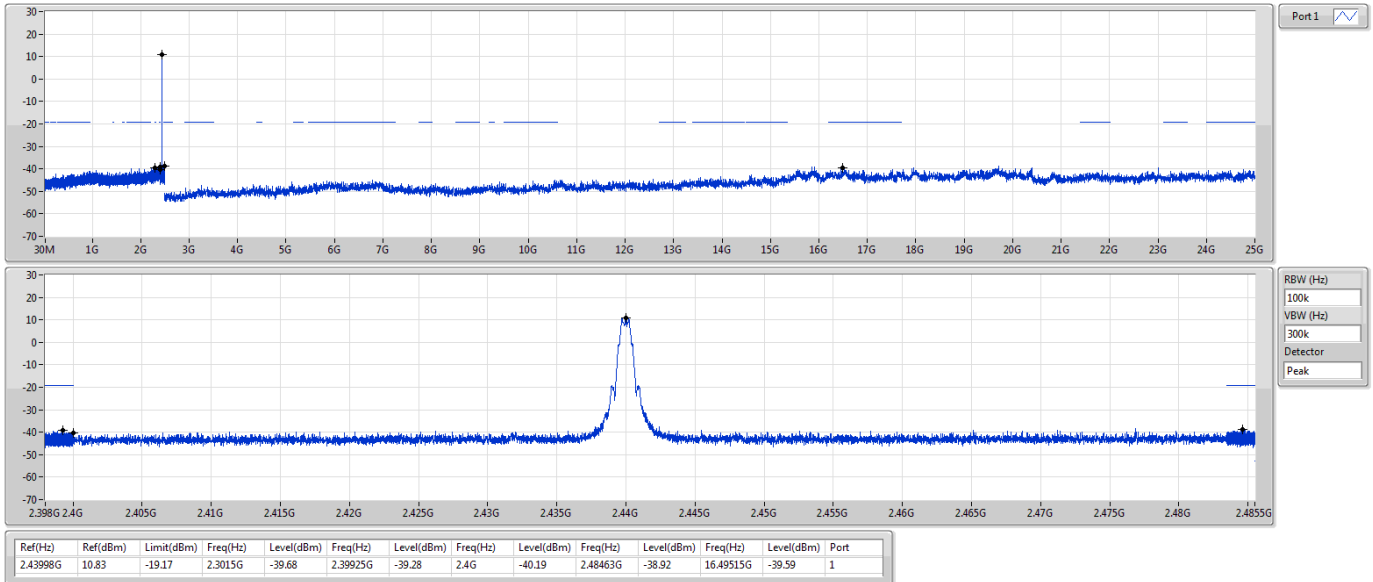
2402MHz



BT-LE(125kbps)

CSEndB-DTS

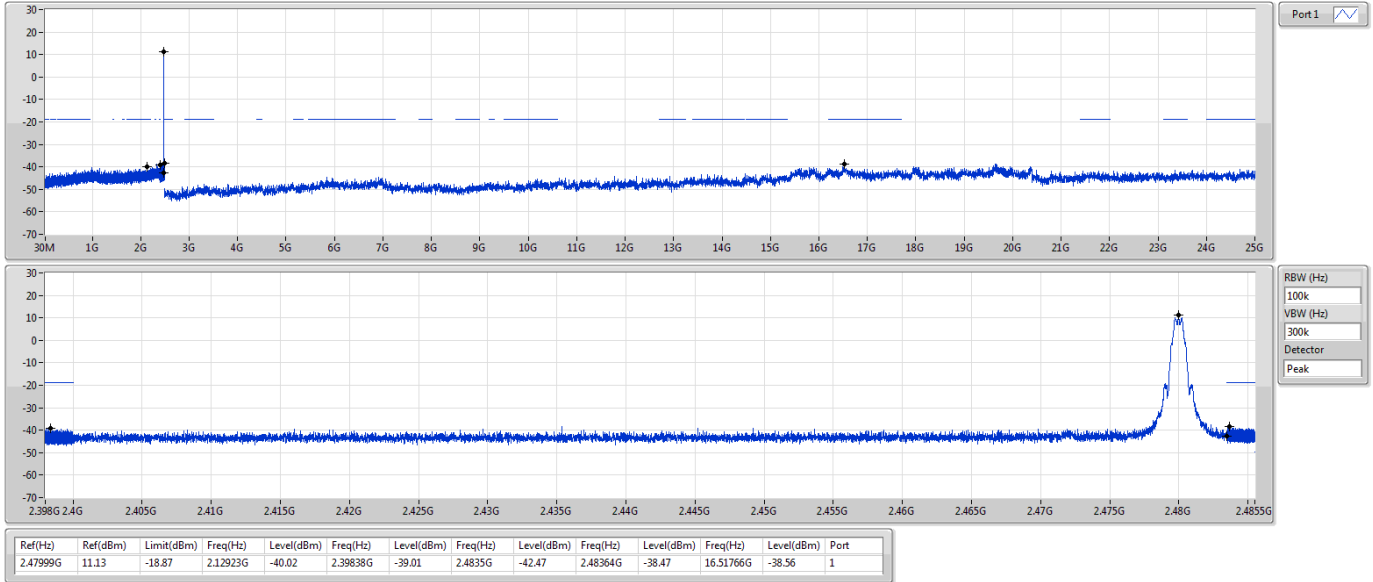
2440MHz



BT-LE(125kbps)

CSEndB-DTS

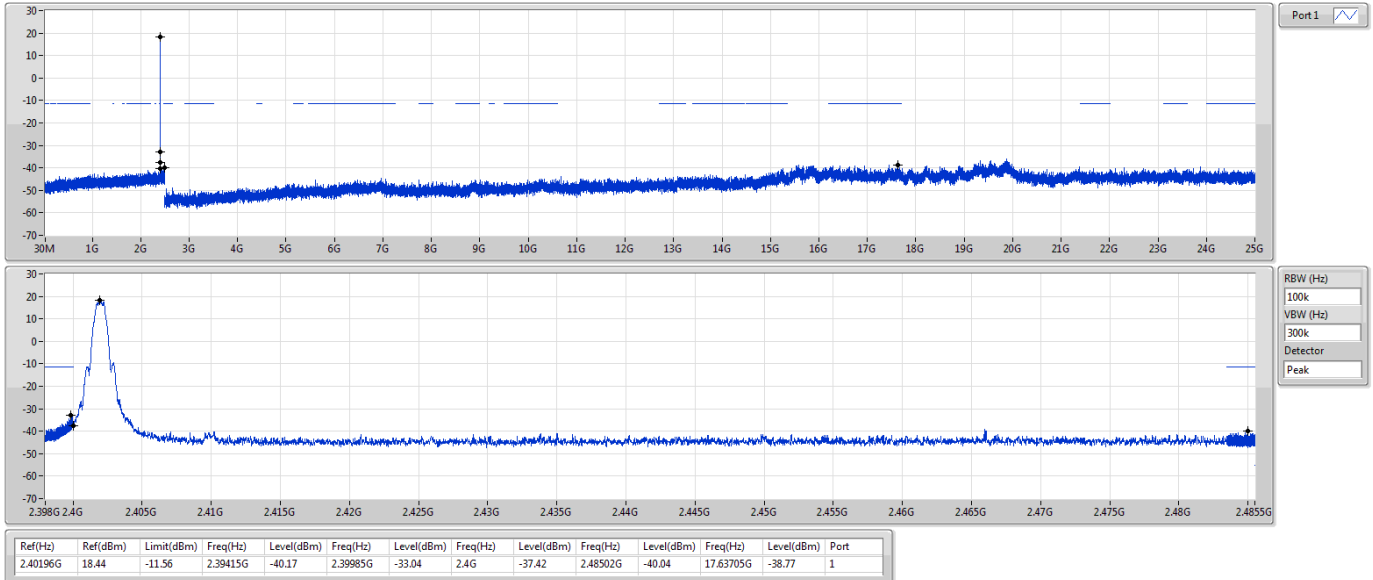
2480MHz



BT-LE(500kbps)

CSEndB-DTS

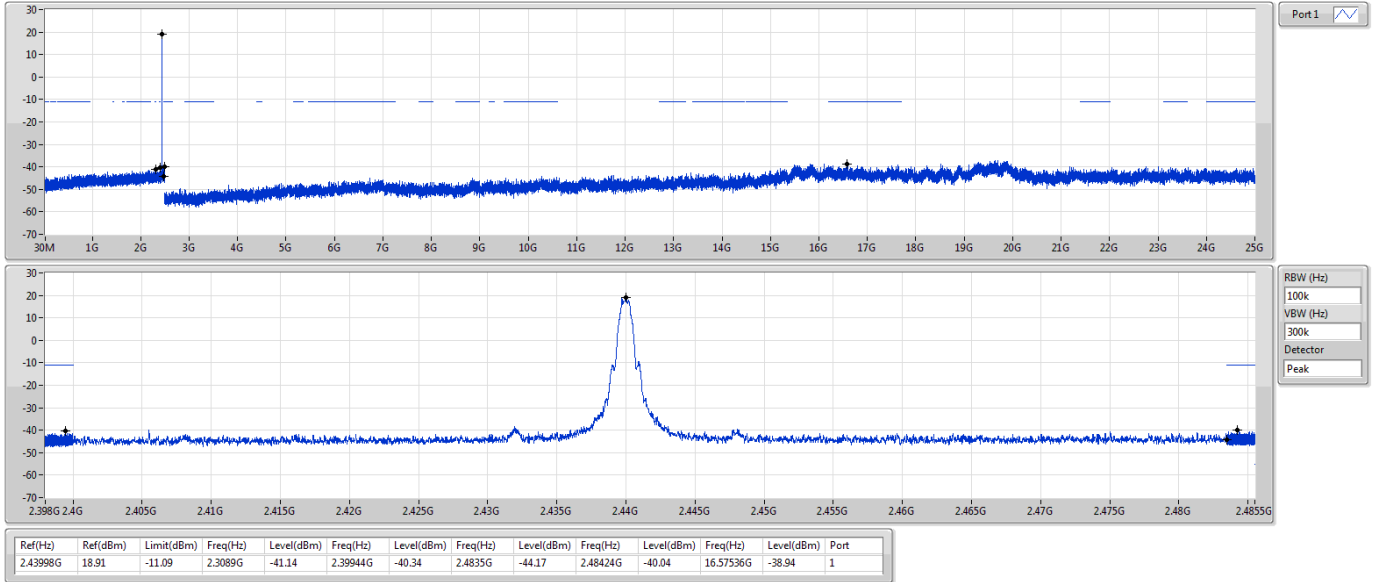
2402MHz



BT-LE(500kbps)

CSEndB-DTS

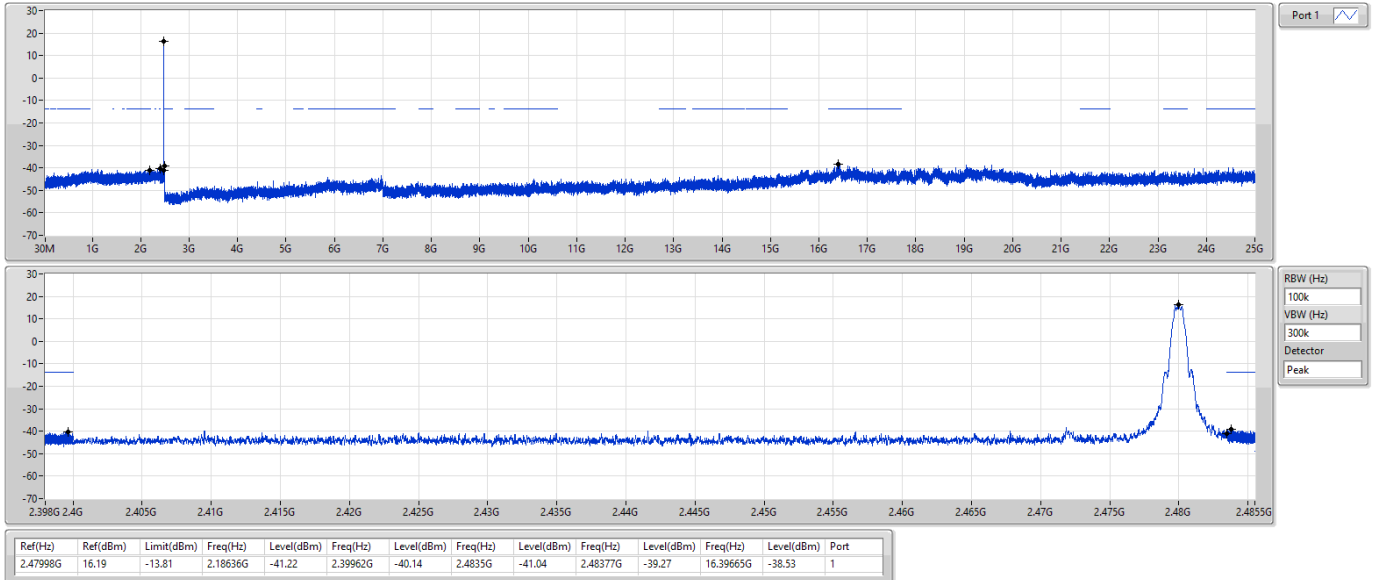
2440MHz



BT-LE(500kbps)

CSEndB-DTS

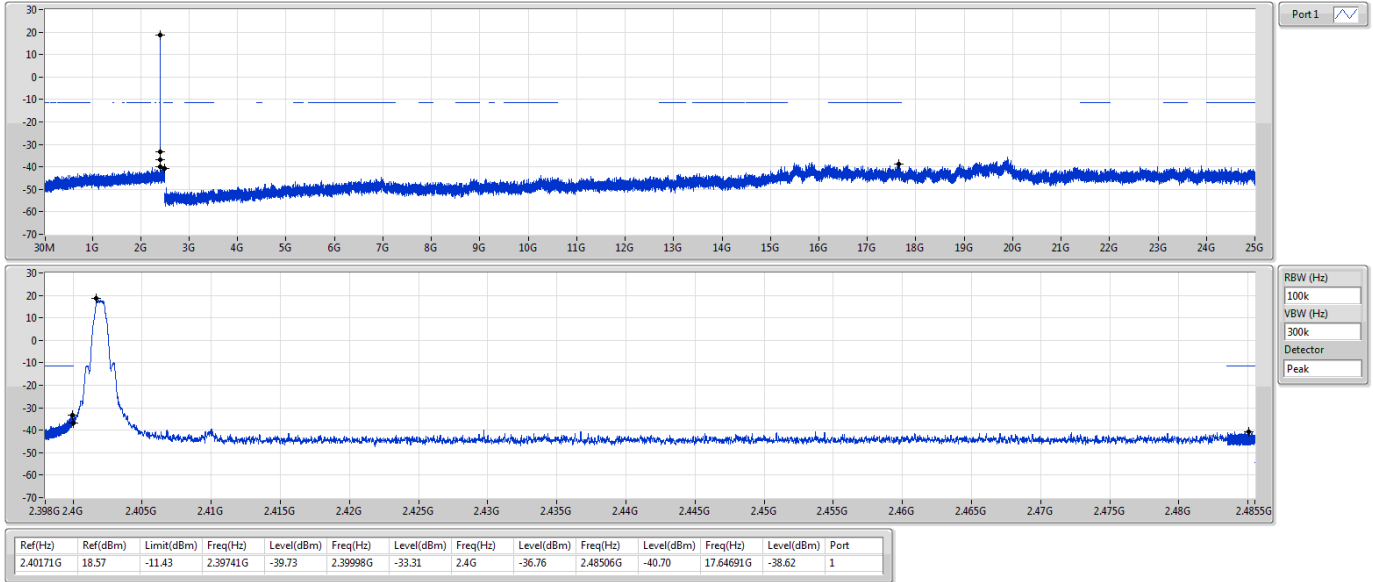
2480MHz



BT-LE(1Mbps)

CSEndB-DTS

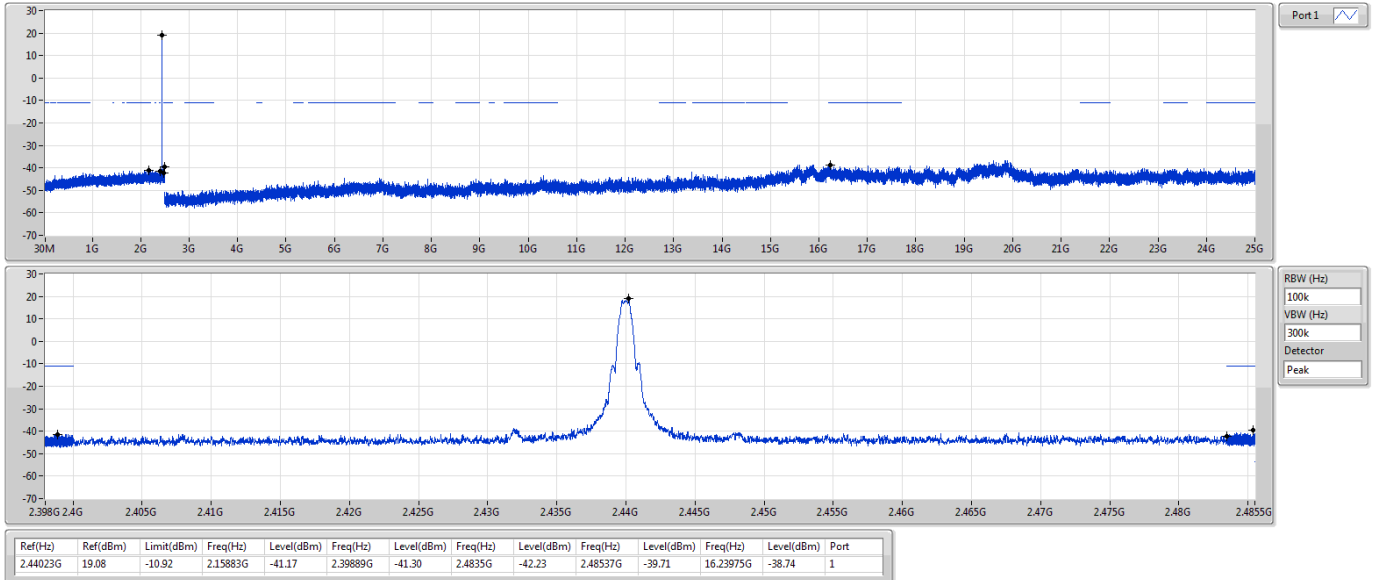
2402MHz



BT-LE(1Mbps)

CSEndB-DTS

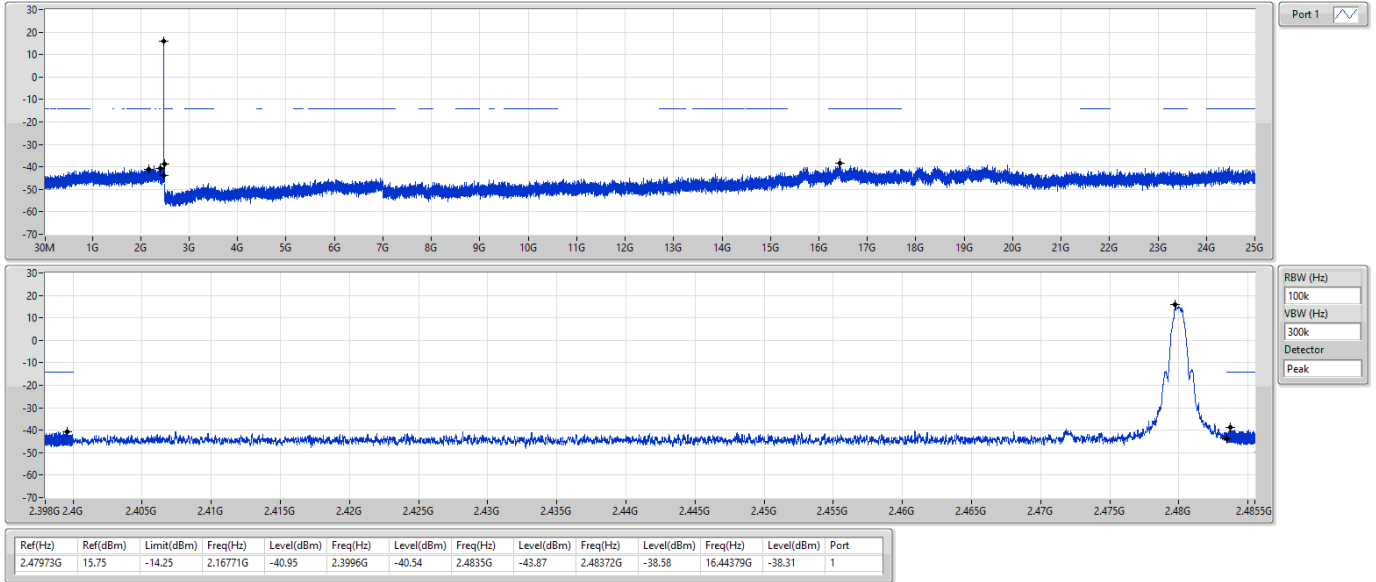
2440MHz



BT-LE(1Mbps)

CSEndB-DTS

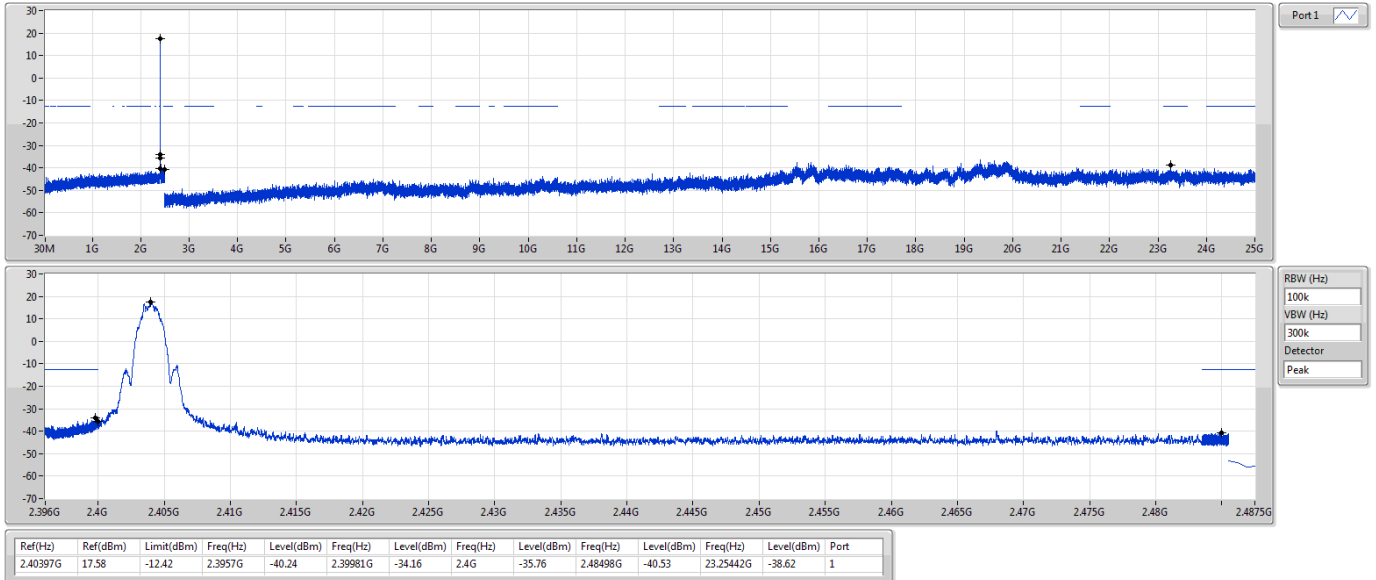
2480MHz



BT-LE(2Mbps)

CSEndB-DTS

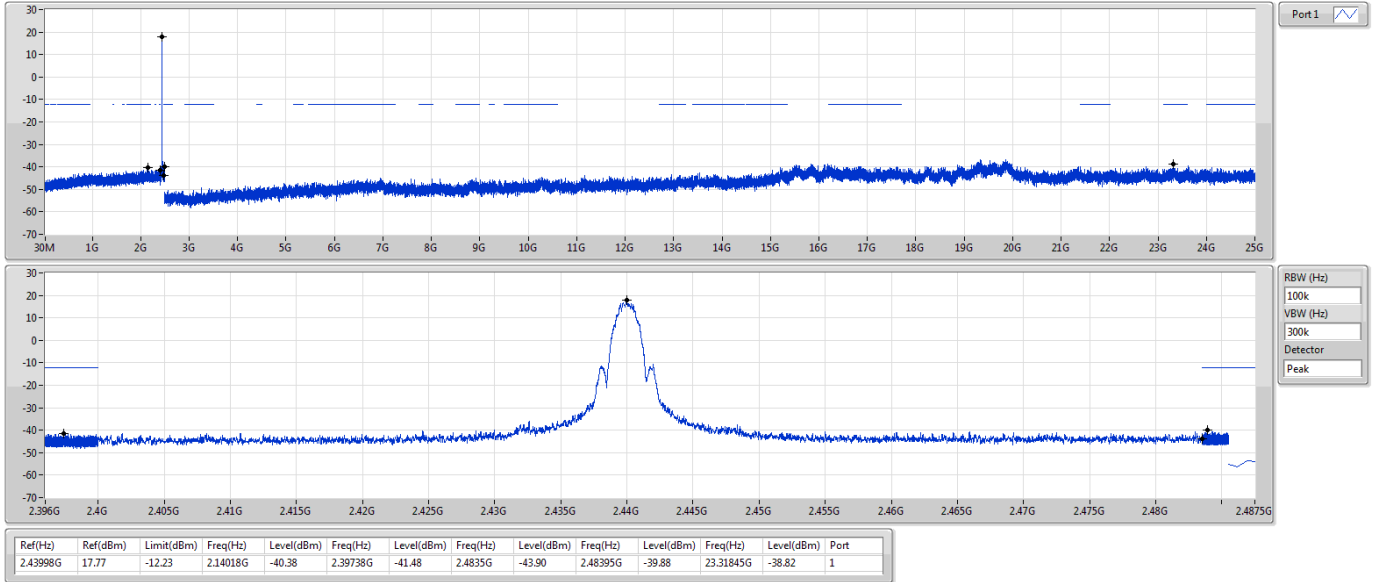
2404MHz



BT-LE(2Mbps)

CSEndB-DTS

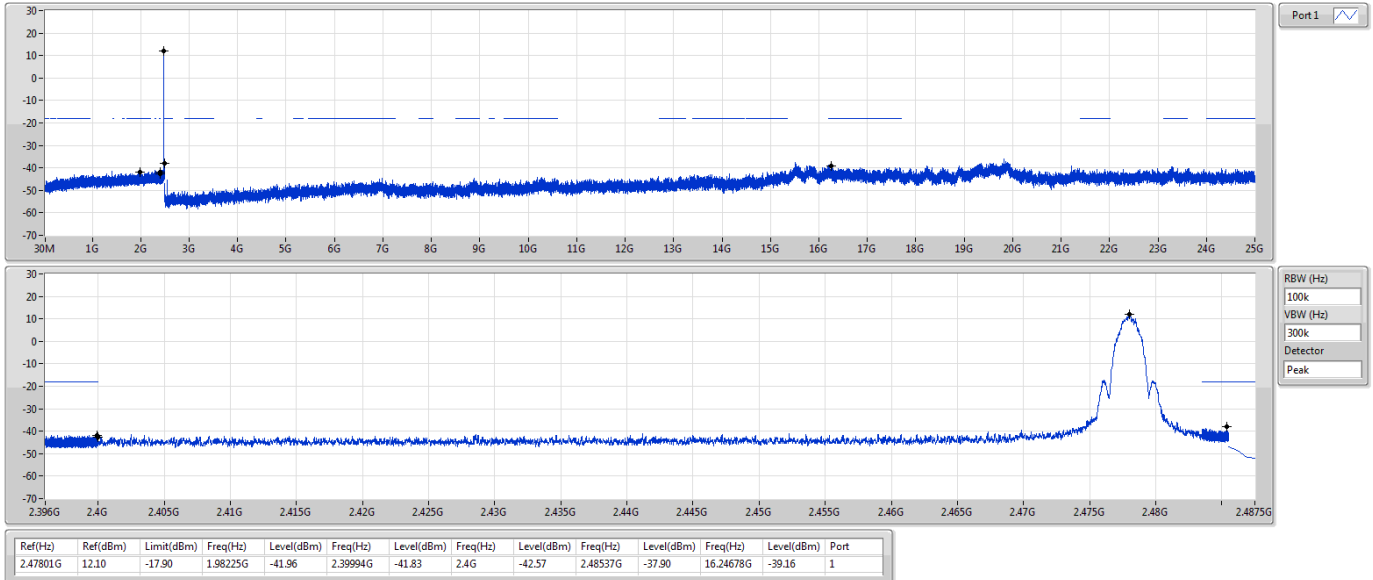
2440MHz



BT-LE(2Mbps)

CSEndB-DTS

2478MHz



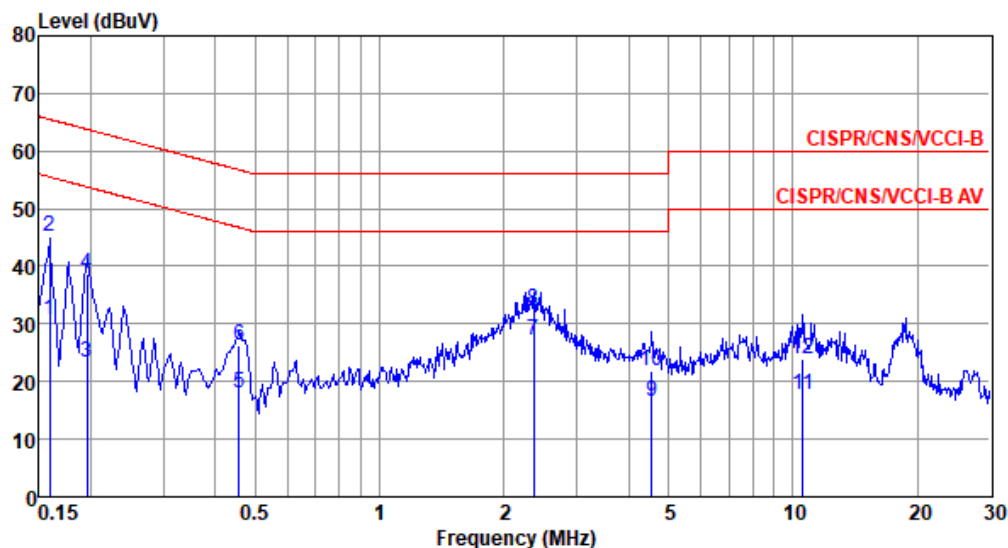


Modulation	BT-LE(1Mbps)	Test Freq. (MHz)	2440
Power Phase	Line		

Test by : Joe Liao

Temperature: 22°C

Humidity: 66%



	Freq	Level	Limit	Over	Read	Factor	Cable	Aux	
	MHz	dBuV	Line	Limit	Level	dB	loss	dB	Remark
			dBuV	dB	dBuV		dB		
1	0.159	30.65	55.52	-24.87	20.91	9.68	0.06	0.00	Average
2	0.159	45.20	65.52	-20.32	35.46	9.68	0.06	0.00	QP
3	0.195	23.27	53.80	-30.53	13.53	9.68	0.06	0.00	Average
4	0.195	38.79	63.80	-25.01	29.05	9.68	0.06	0.00	QP
5	0.456	18.00	46.76	-28.76	8.26	9.67	0.07	0.00	Average
6	0.456	26.16	56.76	-30.60	16.42	9.67	0.07	0.00	QP
7*	2.358	27.19	46.00	-18.81	17.36	9.69	0.14	0.00	Average
8	2.358	32.57	56.00	-23.43	22.74	9.69	0.14	0.00	QP
9	4.549	16.61	46.00	-29.39	6.69	9.71	0.21	0.00	Average
10	4.549	21.92	56.00	-34.08	12.00	9.71	0.21	0.00	QP
11	10.564	17.64	50.00	-32.36	7.53	9.74	0.37	0.00	Average
12	10.564	24.02	60.00	-35.98	13.91	9.74	0.37	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).

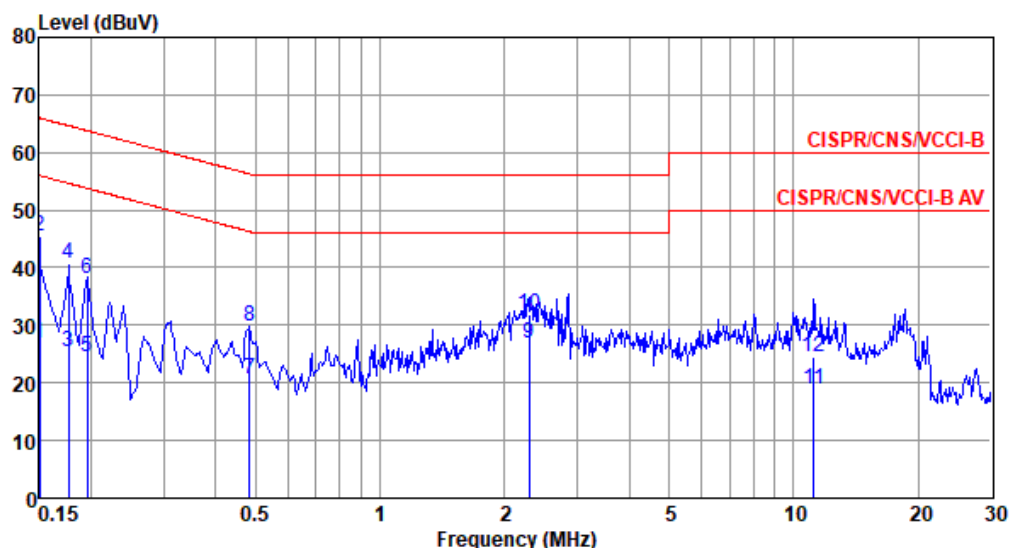


Modulation	BT-LE(1Mbps)	Test Freq. (MHz)	2440
Power Phase	Neutral		

Test by : Joe Liao

Temperature: 22°C

Humidity: 66%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.150	27.00	56.00	-29.00	17.33	9.61	0.06	0.00	Average
2	0.150	45.57	66.00	-20.43	35.90	9.61	0.06	0.00	QP
3	0.177	25.46	54.64	-29.18	15.79	9.61	0.06	0.00	Average
4	0.177	40.67	64.64	-23.97	31.00	9.61	0.06	0.00	QP
5	0.195	24.54	53.80	-29.26	14.87	9.61	0.06	0.00	Average
6	0.195	38.01	63.80	-25.79	28.34	9.61	0.06	0.00	QP
7	0.484	20.81	46.27	-25.46	11.13	9.61	0.07	0.00	Average
8	0.484	29.76	56.27	-26.51	20.08	9.61	0.07	0.00	QP
9*	2.297	26.80	46.00	-19.20	17.04	9.62	0.14	0.00	Average
10	2.297	31.82	56.00	-24.18	22.06	9.62	0.14	0.00	QP
11	11.198	18.97	50.00	-31.03	8.88	9.71	0.38	0.00	Average
12	11.198	24.57	60.00	-35.43	14.48	9.71	0.38	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).