FCC Test Report

FCC ID	:	**SQG-VELAIF310**
Equipment	:	**Vela IF310 Bluetooth 6.0 Classic and LE Audio Module**
Model No.	:	**Vela IF310**
Brand Name	:	**Ezurio**
Applicant	:	**Ezurio LLC**
Address	:	**W66N220 Commerce Court, Cedarburg, WI 53012, USA**
Standard	:	**47 CFR FCC Part 15.247**
Received Date	:	**Oct. 22, 2025**
Tested Date	:	**Nov. 28 ~ Dec. 22, 2025**

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

Reviewed by: **Approved by:**

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

Table of Contents

Release Record

Report No.	Version	Description	Issued Date
FR5O2201AD	Rev. 01	Initial issue	Jan. 19, 2026

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emission	[dBuV]: 0.350MHz 24.70 (Margin -24.26dB) - AV	Pass
15.247(d) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 46.49MHz 29.08 (Margin -10.92dB) - PK	Pass
15.247(d)	Band Edge	Meet the requirement of limit	Pass
15.247(b)(1)	Conducted Output Power	Power [dBm]: 7.03	Pass
15.247(a)(1)(iii)	Number of Hopping Channels	Meet the requirement of limit	Pass
15.247(a)(1)	Hopping Channel Separation	Meet the requirement of limit	Pass
15.247(a)(1)(iii)	Dwell Time	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Product Details

Brand Name	Model Name	Product Name	Description
Ezurio	Vela IF310	Vela IF310 Bluetooth 6.0 Classic and LE Audio Module	453-00390: Module with integrated PCB printed antenna
			453-00391: Module with MHF4 connector
			453-00392: Module with RF trace extending to the carrier board

1.1.2 Specification of the Equipment under Test (EUT)

RF General Information				
Frequency Range (MHz)	**Bluetooth Mode**	**Ch. Frequency (MHz)**	**Channel Number**	**Data Rate**
2400-2483.5	BR	2402-2480	0-78 [79]	1 Mbps
2400-2483.5	EDR	2402-2480	0-78 [79]	2 Mbps
2400-2483.5	EDR	2402-2480	0-78 [79]	3 Mbps
Note 1: RF output power specifies that Maximum Peak Conducted Output Power. Note 2: Bluetooth BR uses a GFSK. Note 3: Bluetooth EDR uses a combination of π/4-DQPSK and 8DPSK.				

1.1.3 Antenna Details

External Antenna list for Vela IF310 MHF4 module variant (453-00391) & (453-00392)

Manufacturer	Model	Part Number	Type	Connector	Gain (dBi)
Ezurio	NanoBlue	EBL2400A1-10MH4L	PCB Dipole	IPEX MHF4	2
Ezurio	FlexPIFA	001-0022	FlexPIFA	IPEX MHF4L	2
Ezurio	mFlexPIFA	EFA2400A3S-10MH4L	PIFA	IPEX MHF4L	2
Mag.Layers	EDA-8709-2G4C1-B27-CY	0600-00057	Dipole	IPEX MHF4	2.32
Ezurio	i-FlexPIFATM Mini Series	EFG2401A3S-10MH4L	i-FlexPIFA	IPEX MHF4L	2

Integrated Antenna Vela IF310 PCB printed antenna module variant (453-00390)

Manufacturer	Model	Part Number	Type	Connector	Gain (dBi)
Ignion	Embedded Virtual Antenna	NN00-101	PCB Trace Antenna	N/A	3.2

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	3.3Vdc from host

1.1.5 Accessories

N/A.

1.1.6 Channel List

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

1.1.7 Test Tool and Duty Cycle

Test Tool	AIROC, Version: 1.2.0.2890 Bluetooth Simulator, Brand: R&S, Model: CMW500	
Modulation Mode	**Duty Cycle Of Test Signal (%)**	**Duty Factor (dB)**
DH5	77.31%	1.12
2DH5	77.78%	1.09
3DH5	78.34%	1.06

1.1.8 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)		
	2402	**2441**	**2480**
GFSK/1Mbps	Specify Power Table index 0x0	Specify Power Table index 0x0	Specify Power Table index 0x0
π/4-DQPSK /2Mbps	Specify Power Table index 0x0	Specify Power Table index 0x0	Specify Power Table index 0x0
8DPSK/3Mbps	Specify Power Table index 0x0	Specify Power Table index 0x0	Specify Power Table index 0x0

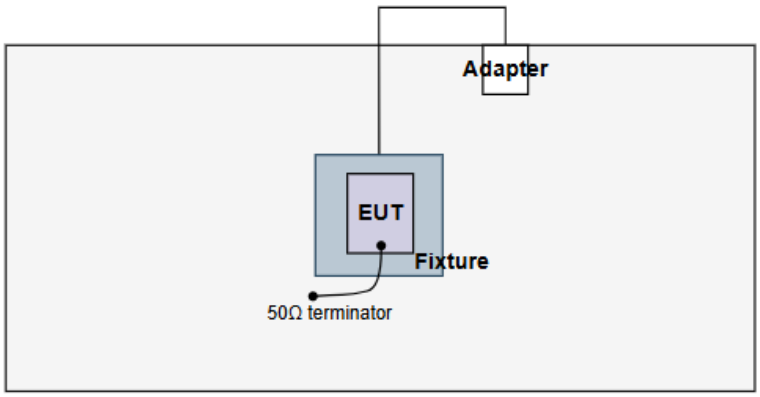
1.2 Local Support Equipment List

Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Remarks**
1	Fixture	---	---	---	Provided by applicant.
2	50 ohm load	woken	WTER-18S2	---	---
3	Laptop	DELL	Latitude E5470	DoC	---
4	USB Cable	U-GREEN	US399	---	---

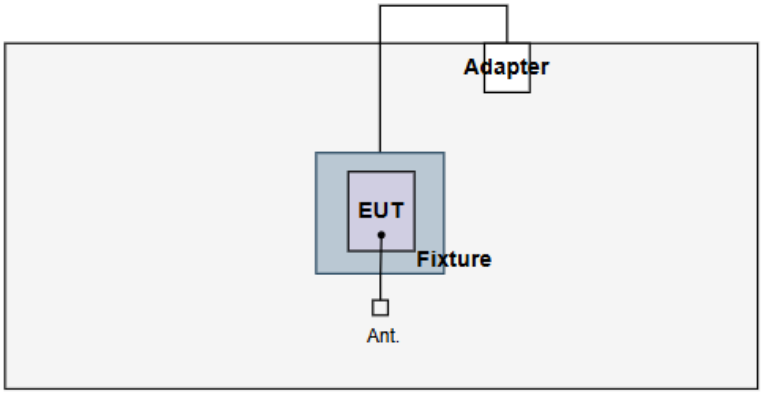
Note: After sending the command to the EUT to transmit continuously, item No. 3 and 4 were disconnected and removed from the testing table.

1.3 Test Setup Chart

Test Setup Diagram (for radiated emission test)



Test Setup Diagram (for conducted emission test)



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Dec. 22, 2025				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101658	Feb. 25, 2025	Feb. 24, 2026
LISN	R&S	ENV216	101579	May 07, 2025	May 06, 2026
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Mar. 21, 2025	Mar. 20, 2026
RF Cable-CON	EMC	EMCCFD300-BM-BM-6000	50821	Oct. 07, 2025	Oct. 06, 2026
50 ohm terminal	NA	50	3	Jul. 30, 2025	Jul. 29, 2026
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Dec. 01 ~ Dec. 09, 2025				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101657	Mar. 11, 2025	Mar. 10, 2026
Spectrum Analyzer	R&S	FSV40	101498	Nov. 06, 2025	Nov. 05, 2026
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 17, 2025	Nov. 16, 2026
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Sep. 05, 2025	Sep. 04, 2026
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1095	Sep. 03, 2025	Sep. 02, 2026
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 28, 2025	Nov. 27, 2026
Preamplifier	EMC	EMC02325	980225	Jun. 13, 2025	Jun. 12, 2026
Preamplifier	EMC	EMC118A45SE	980898	Jun. 24, 2025	Jun. 23, 2026
Preamplifier	EMC	EMC184045SE	980903	Aug. 08, 2025	Aug. 07, 2026
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 01, 2025	Sep. 30, 2026
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 01, 2025	Sep. 30, 2026
LF cable 11M	EMC	EMCCFD400-NW-NW-11000	200801	Oct. 01, 2025	Sep. 30, 2026
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	160502	Oct. 01, 2025	Sep. 30, 2026
RF Cable	EMC	EMC104-35M-35M-8000	210920	Oct. 01, 2025	Sep. 30, 2026
RF Cable	EMC	EMC104-35M-35M-3000	210922	Oct. 01, 2025	Sep. 30, 2026
Attenuator	Pasternack	PE7005-10	10-1	Oct. 01, 2025	Sep. 30, 2026
HIGHPASS FILTER 3.1-18G	WHK	WHK3.1/18G-10SS	39	Oct. 01, 2025	Sep. 30, 2026
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Nov. 28, 2025				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Wideband Radio Communication Tester	R&S	CMW500	106070	Apr. 02, 2025	Apr. 01, 2026
Spectrum Analyzer	R&S	FSV3044	101516	Jun. 09, 2025	Jun. 08, 2026
Power Meter	Anritsu	ML2495A	1241002	Nov. 21, 2025	Nov. 20, 2026
Power Sensor	Anritsu	MA2411B	1207366	Nov. 21, 2025	Nov. 20, 2026
Attenuator	Pasternack	PE7005-10	10-2	Oct. 03, 2025	Oct. 02, 2026
Measurement Software	Sporton	SENSE-15247_FS	V5.11	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.247
ANSI C63.10-2020
ANSI C63.4-2014 + C63.4a-2017

1.6 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

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

Measurement Uncertainty	
Parameters	**Uncertainty**
Bandwidth	±34.130 Hz
Conducted power	±0.808 dB
Power density	±0.583 dB
Conducted emission	±2.715 dB
AC conducted emission	±2.92 dB
Unwanted Emission ≤ 1GHz	±3.41 dB
Unwanted Emission > 1GHz	±4.59 dB
Time	±0.1%

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps)	Test method	Test Configuration	Note
AC Power Line Conducted Emissions	GFSK	2441	1Mbps	Conducted	3	---
Radiated Emissions ≤ 1GHz	GFSK	2441	1Mbps	Radiated	1	Note 2
				Conducted	1	---
Radiated Emissions > 1GHz	GFSK 8DPSK	2402, 2441, 2480 2402, 2441, 2480	1Mbps 3Mbps	Radiated	1	Note 2
				Conducted	1	---
Conducted Output Power	GFSK π/4 DQPSK 8DPSK	2402, 2441, 2480 2402, 2441, 2480 2402, 2441, 2480	1Mbps 2Mbps 3Mbps	Conducted	1	---
Number of Hopping Channels	GFSK π/4 DQPSK 8DPSK	2402~2480 2402~2480 2402~2480	1Mbps 2Mbps 3Mbps	Conducted	1	---
Hopping Channel Separation 20dB and Occupied bandwidth	GFSK π/4 DQPSK 8DPSK	2402, 2441, 2480 2402, 2441, 2480 2402, 2441, 2480	1Mbps 2Mbps 3Mbps	Conducted	1	---
Dwell Time	GFSK π/4 DQPSK 8DPSK	2402 2402 2402	1Mbps 2Mbps 3Mbps	Conducted	1	---
Radiated Emissions ≤ 1GHz	GFSK	2480	1Mbps	Radiated	2	Note 2
Radiated Emissions > 1GHz	8DPSK	2402	3Mbps	Radiated	2	Note 2
Conducted Output Power	GFSK π/4 DQPSK 8DPSK	2402, 2441, 2480 2402, 2441, 2480 2402, 2441, 2480	1Mbps 2Mbps 3Mbps	Conducted	2	---

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **X-plane** results were found as the worst case and were shown in this report.
2. The 50Ω terminator is connected to antenna port of EUT for radiated emission measurement.
3. Test configurations are listed as below:

   Configuration 1: part no. 453-00391

   Configuration 2: part no. 453-00392

   Configuration 3: part no. 453-00391 with highest gain Dipole antenna (model: EDA-8709-2G4C1-B27-CY)

3 Transmitter Test Results

3.1 Unwanted Emissions into Restricted Frequency Bands

3.1.1 Limit of Unwanted Emissions into Restricted Frequency Bands

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

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit
Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.1.2 Test Procedures

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

Note:

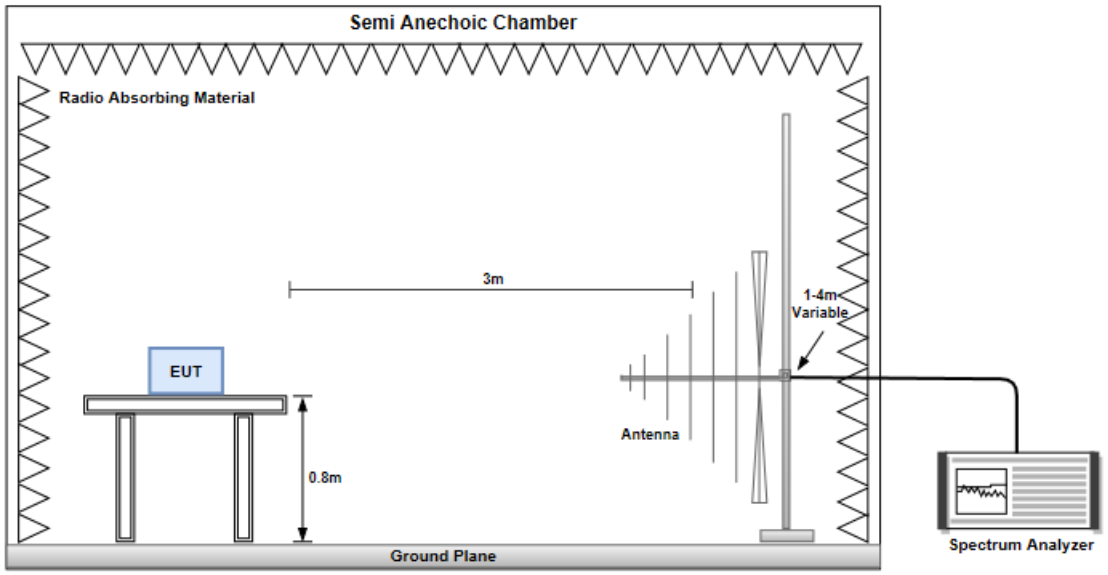
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. Radiated emission above 1GHz / Peak value
   RBW=1MHz, VBW=3MHz and Peak detector
3. Radiated emission above 1GHz / Average value for harmonics
   The average value is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula for DH5 packet type which has worst duty factor:

$$20\log(\text{Duty cycle}) = 20\log\frac{1\text{s} / 1600 * 5}{100\text{ ms}} = -30.1\text{dB}$$

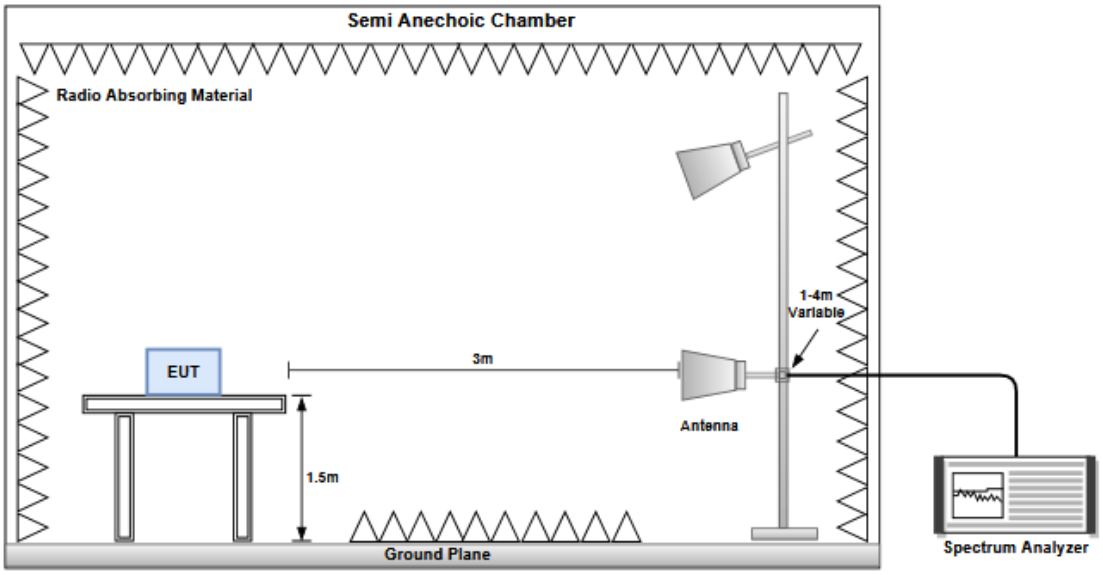
4. Radiated emission above 1GHz / Average value for other emissions
   RBW=1MHz, VBW=1/T and Peak detector

3.1.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.1.4 Test Results

Refer to Appendix A.

3.2 Unwanted Emissions into Non-Restricted Frequency Bands

3.2.1 Limit of Unwanted Emissions into Non-Restricted Frequency Bands

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

3.2.2 Test Procedures

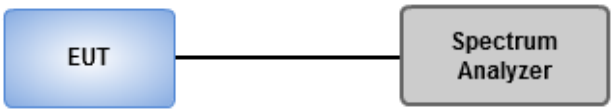
Reference level measurement

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

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	24°C / 62%	Tested By	Roger Lu

Refer to Appendix B.

3.3 Conducted Output Power

3.3.1 Limit of Conducted Output Power

☐ 1 Watt
For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band.

☒ 0.125 Watt
For all other frequency hopping systems in the 2400–2483.5 MHz band.

☐ 0.125 Watt
For Frequency hopping systems operating in the 2400–2483.5 MHz band have hopping channel carrier frequencies that are separated by two-thirds of the 20 dB bandwidth of the hopping channel.

3.3.2 Test Procedures

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

2 If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power

3.3.3 Test Setup

3.3.4 Test Results

Ambient Condition	24°C / 62%	**Tested By**	Roger Lu

Refer to Appendix C.

3.4 Number of Hopping Frequency

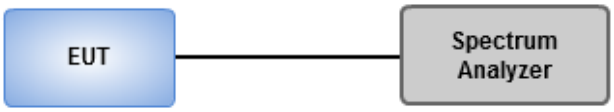
3.4.1 Limit of Number of Hopping Frequency

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

3.4.2 Test Procedures

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

3.4.3 Test Setup



3.4.4 Test Results

Ambient Condition	24°C / 62%	Tested By	Roger Lu

Refer to Appendix D.

3.5 20dB and Occupied Bandwidth

3.5.1 Test Procedures

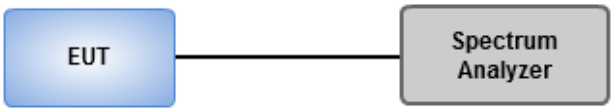
20dB Bandwidth

1. Set RBW=20kHz, VBW=100kHz, Sweep time = Auto, Detector=Peak , Trace max hold
2 Allow trace to stabilize
3 Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

Occupied Bandwidth

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

3.5.2 Test Setup



3.5.3 Test Results

Ambient Condition	24°C / 62%	**Tested By**	Roger Lu

Refer to Appendix E.

3.6 Channel Separation

3.6.1 Limit of Channel Separation

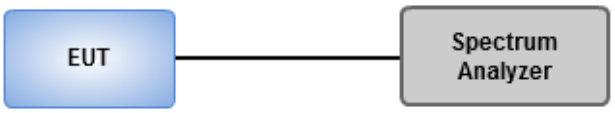
☐ Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

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

3.6.2 Test Procedures

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

3.6.3 Test Setup



3.6.4 Test Results

Ambient Condition	24°C / 62%	Tested By	Roger Lu

Refer to Appendix F.

3.7 Number of Dwell Time

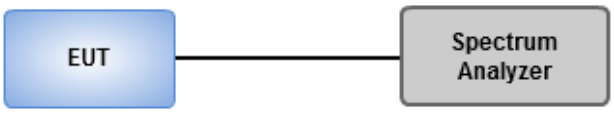
3.7.1 Limit of Dwell time

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

3.7.2 Test Procedures

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

3.7.3 Test Setup



3.7.4 Test Results

Ambient Condition	24°C / 62%	**Tested By**	Roger Lu

Refer to Appendix G.

3.8 AC Power Line Conducted Emissions

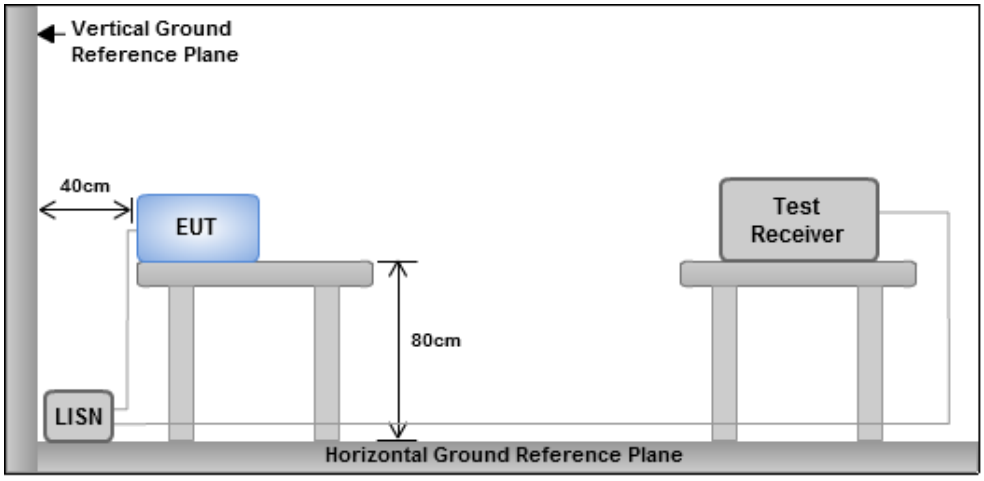
3.8.1 Limit of AC Power Line Conducted Emissions

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.		

3.8.2 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

3.8.3 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

3.8.4 Test Results

Refer to Appendix H.

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website https://www.icertifi.com.tw.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan (R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

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

==END==

Test Configuration 1: part no. 453-00391

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-BR(1Mbps)	Pass	30M	1G	PK	73.53M	3.20	-75.88	4.7	-67.98	-55.2	-12.78

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

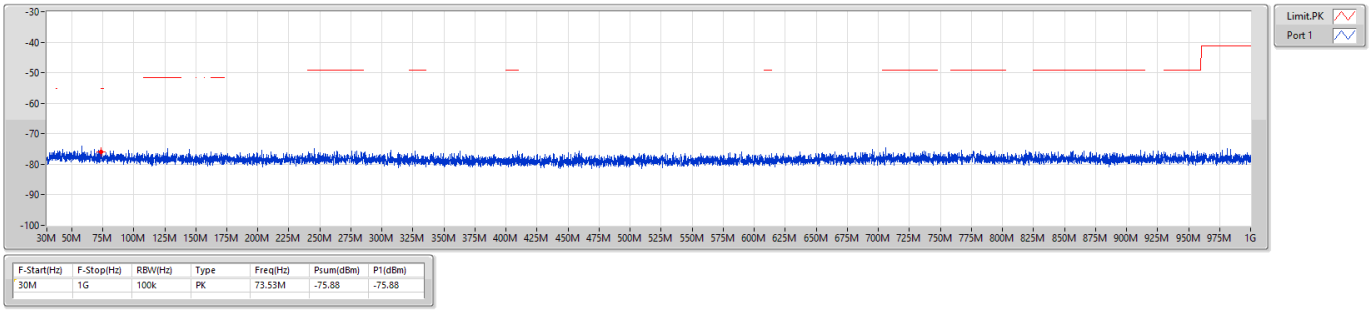
Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	GRF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
BT-BR(1Mbps)	-	-	-	-	-	-	-		-	-	-
2402MHz	Pass	30M	1G	PK	73.53M	3.20	-75.88	4.7	-67.98	-55.2	-12.78

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

2.4-2.4835GHz_BT-BR(1Mbps) **CSE Other-FS [PK]**

2402MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
30M	1G	100k	PK	73.53M	-75.88	-75.88

Test Configuration 1: part no. 453-00391

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-BR(1Mbps)	Pass	2.4835G	2.5G	AV	2.4835G	3.20	-64.15	-60.95	-41.20	-19.75
BT-EDR(3Mbps)	Pass	2.5G	3.1G	AV	2.8024G	3.20	-64.06	-60.86	-41.20	-19.66

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

Result

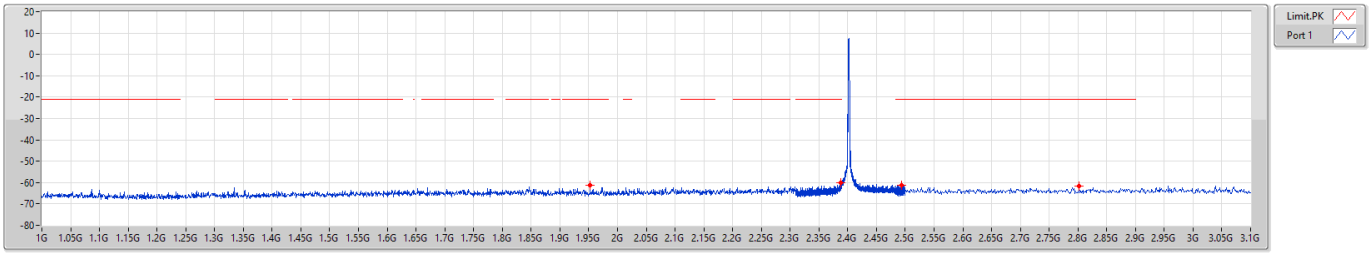
Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	1G	2.31G	AV	1.84184G	3.20	-72.26	-69.06	-41.20	-27.86
2402MHz	Pass	2.31G	2.39G	AV	2.38828G	3.20	-70.17	-66.97	-41.20	-25.77
2402MHz	Pass	2.4835G	2.5G	AV	2.49801G	3.20	-70.89	-67.69	-41.20	-26.49
2402MHz	Pass	2.5G	3.1G	AV	2.8024G	3.20	-67.74	-64.54	-41.20	-23.34
2402MHz	Pass	1G	2.31G	PK	1.95237G	3.20	-61.25	-58.05	-21.20	-36.85
2402MHz	Pass	2.31G	2.39G	PK	2.38856G	3.20	-60.09	-56.89	-21.20	-35.69
2402MHz	Pass	2.4835G	2.5G	PK	2.49394G	3.20	-61.07	-57.87	-21.20	-36.67
2402MHz	Pass	2.5G	3.1G	PK	2.8024G	3.20	-61.73	-58.53	-21.20	-37.33
2441MHz	Pass	1G	2.31G	AV	2.24909G	3.20	-72.57	-69.37	-41.20	-28.17
2441MHz	Pass	2.31G	2.39G	AV	2.34496G	3.20	-72.57	-69.37	-41.20	-28.17
2441MHz	Pass	2.4835G	2.5G	AV	2.48913G	3.20	-71.63	-68.43	-41.20	-27.23
2441MHz	Pass	2.5G	3.1G	AV	2.55175G	3.20	-65.34	-62.14	-41.20	-20.94
2441MHz	Pass	1G	2.31G	PK	2.26939G	3.20	-61.83	-58.63	-21.20	-37.43
2441MHz	Pass	2.31G	2.39G	PK	2.37416G	3.20	-62.23	-59.03	-21.20	-37.83
2441MHz	Pass	2.4835G	2.5G	PK	2.48906G	3.20	-60.88	-57.68	-21.20	-36.48
2441MHz	Pass	2.5G	3.1G	PK	2.5468G	3.20	-58.58	-55.38	-21.20	-34.18
2480MHz	Pass	1G	2.31G	AV	1.84315G	3.20	-72.41	-69.21	-41.20	-28.01
2480MHz	Pass	2.31G	2.39G	AV	2.384G	3.20	-72.91	-69.71	-41.20	-28.51
2480MHz	Pass	2.4835G	2.5G	AV	2.4835G	3.20	-64.15	-60.95	-41.20	-19.75
2480MHz	Pass	2.5G	3.1G	AV	2.50195G	3.20	-72.17	-68.97	-41.20	-27.77
2480MHz	Pass	1G	2.31G	PK	2.20455G	3.20	-61.22	-58.02	-21.20	-36.82
2480MHz	Pass	2.31G	2.39G	PK	2.37804G	3.20	-62.21	-59.01	-21.20	-37.81
2480MHz	Pass	2.4835G	2.5G	PK	2.48364G	3.20	-45.78	-42.58	-21.20	-21.38
2480MHz	Pass	2.5G	3.1G	PK	2.6992G	3.20	-61.34	-58.14	-21.20	-36.94
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	1G	2.31G	AV	2.27987G	3.20	-72.36	-69.16	-41.20	-27.96
2402MHz	Pass	2.31G	2.39G	AV	2.3882G	3.20	-71.48	-68.28	-41.20	-27.08
2402MHz	Pass	2.4835G	2.5G	AV	2.49807G	3.20	-71.85	-68.65	-41.20	-27.45
2402MHz	Pass	2.5G	3.1G	AV	2.8024G	3.20	-64.06	-60.86	-41.20	-19.66
2402MHz	Pass	1G	2.31G	PK	2.11809G	3.20	-61.54	-58.34	-21.20	-37.14
2402MHz	Pass	2.31G	2.39G	PK	2.37676G	3.20	-61.50	-58.30	-21.20	-37.10
2402MHz	Pass	2.4835G	2.5G	PK	2.48384G	3.20	-61.25	-58.05	-21.20	-36.85

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2402MHz	Pass	2.5G	3.1G	PK	2.8024G	3.20	-58.77	-55.57	-21.20	-34.37
2441MHz	Pass	1G	2.31G	AV	1.84266G	3.20	-72.17	-68.97	-41.20	-27.77
2441MHz	Pass	2.31G	2.39G	AV	2.38184G	3.20	-72.57	-69.37	-41.20	-28.17
2441MHz	Pass	2.4835G	2.5G	AV	2.48907G	3.20	-72.02	-68.82	-41.20	-27.62
2441MHz	Pass	2.5G	3.1G	AV	2.848G	3.20	-68.06	-64.86	-41.20	-23.66
2441MHz	Pass	1G	2.31G	PK	2.2897G	3.20	-62.07	-58.87	-21.20	-37.67
2441MHz	Pass	2.31G	2.39G	PK	2.35832G	3.20	-61.84	-58.64	-21.20	-37.44
2441MHz	Pass	2.4835G	2.5G	PK	2.48916G	3.20	-60.82	-57.62	-21.20	-36.42
2441MHz	Pass	2.5G	3.1G	PK	2.7748G	3.20	-61.39	-58.19	-21.20	-36.99
2480MHz	Pass	1G	2.31G	AV	1.84184G	3.20	-72.32	-69.12	-41.20	-27.92
2480MHz	Pass	2.31G	2.39G	AV	2.3844G	3.20	-72.60	-69.40	-41.20	-28.20
2480MHz	Pass	2.4835G	2.5G	AV	2.4835G	3.20	-64.87	-61.67	-41.20	-20.47
2480MHz	Pass	2.5G	3.1G	AV	2.5294G	3.20	-71.09	-67.89	-41.20	-26.69
2480MHz	Pass	1G	2.31G	PK	2.20979G	3.20	-61.80	-58.60	-21.20	-37.40
2480MHz	Pass	2.31G	2.39G	PK	2.3504G	3.20	-62.16	-58.96	-21.20	-37.76
2480MHz	Pass	2.4835G	2.5G	PK	2.4835G	3.20	-54.40	-51.20	-21.20	-30.00
2480MHz	Pass	2.5G	3.1G	PK	2.7256G	3.20	-61.42	-58.22	-21.20	-37.02

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

2.4-2.4835GHz_BT-BR(1Mbps) **CSE Bandedge-FS [PK]**

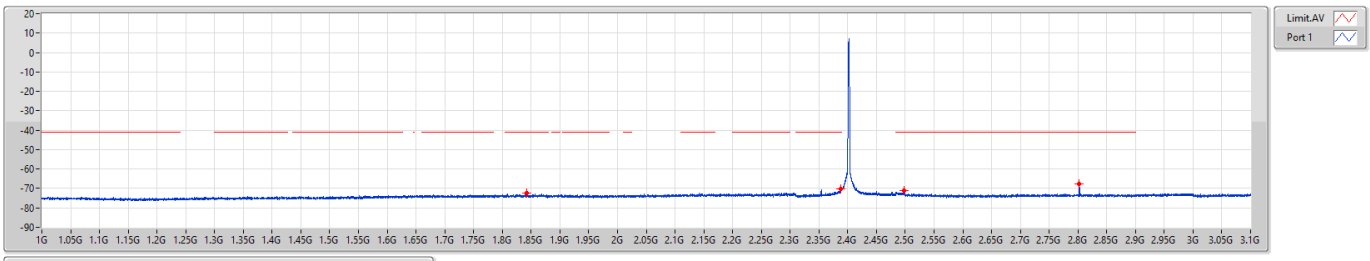
2402MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
1G	2.31G	1M	PK	1.95237G	-61.25	-61.25
2.31G	2.39G	1M	PK	2.38856G	-60.09	-60.09
2.4835G	2.5G	1M	PK	2.49394G	-61.07	-61.07
2.5G	3.1G	1M	PK	2.8024G	-61.73	-61.73

2.4-2.4835GHz_BT-BR(1Mbps) **CSE Bandedge-FS [AV]**

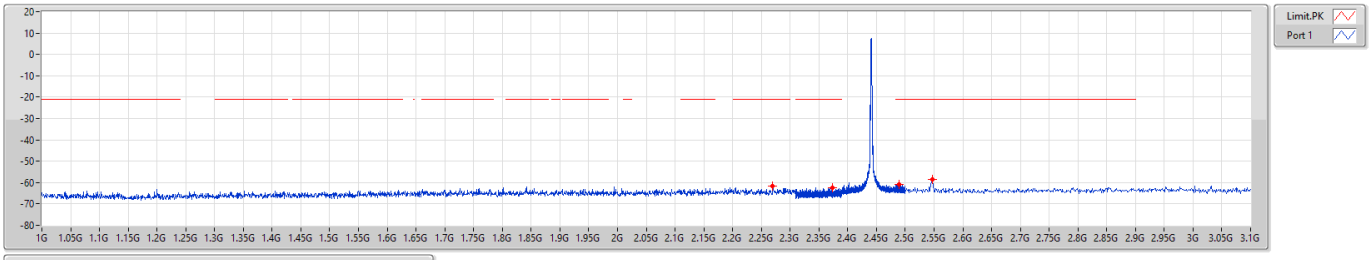
2402MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
1G	2.31G	1M	AV	1.84184G	-72.26	-72.26
2.31G	2.39G	1M	AV	2.38828G	-70.17	-70.17
2.4835G	2.5G	1M	AV	2.49801G	-70.89	-70.89
2.5G	3.1G	1M	AV	2.8024G	-67.74	-67.74

2.4-2.4835GHz_BT-BR(1Mbps) **CSE Bandedge-FS [PK]**

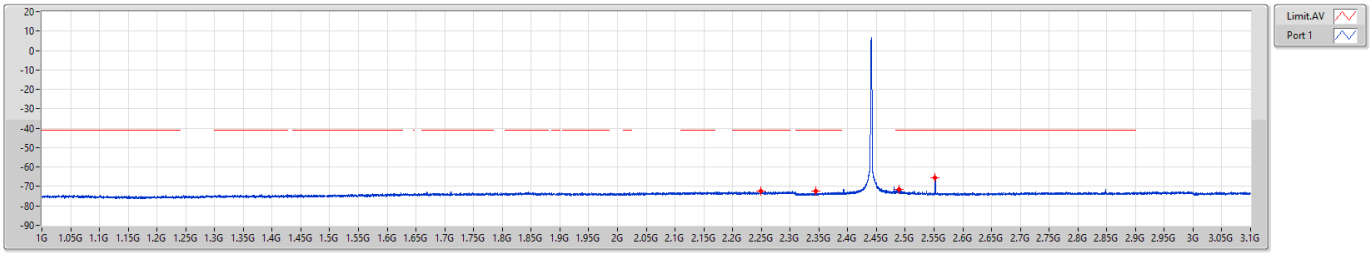
2441MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
1G	2.31G	1M	PK	2.26939G	-61.83	-61.83
2.31G	2.39G	1M	PK	2.37416G	-62.23	-62.23
2.4835G	2.5G	1M	PK	2.48906G	-60.88	-60.88
2.5G	3.1G	1M	PK	2.5468G	-58.58	-58.58

2.4-2.4835GHz_BT-BR(1Mbps) **CSE Bandedge-FS [AV]**

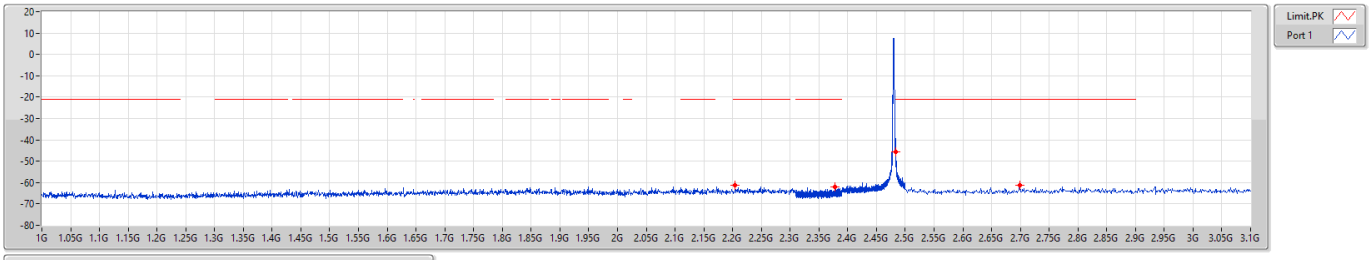
2441MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
1G	2.31G	1M	AV	2.24909G	-72.57	-72.57
2.31G	2.39G	1M	AV	2.34496G	-72.57	-72.57
2.4835G	2.5G	1M	AV	2.48913G	-71.63	-71.63
2.5G	3.1G	1M	AV	2.55175G	-65.34	-65.34

2.4-2.4835GHz_BT-BR(1Mbps) **CSE Bandedge-FS [PK]**

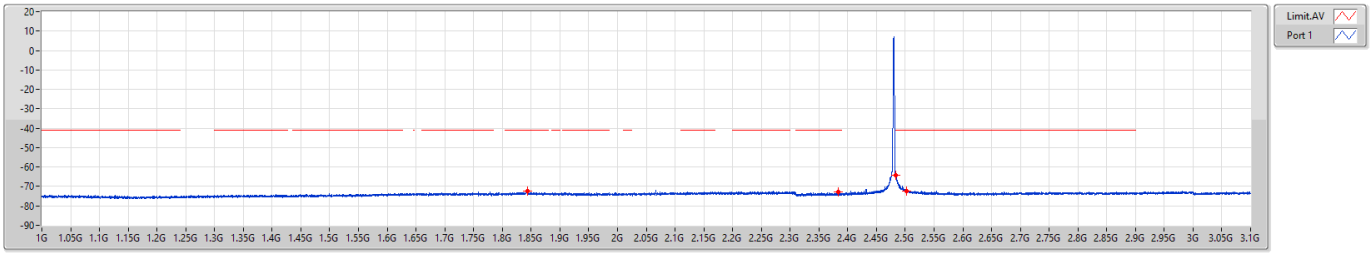
2480MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
1G	2.31G	1M	PK	2.20455G	-61.22	-61.22
2.31G	2.39G	1M	PK	2.37804G	-62.21	-62.21
2.4835G	2.5G	1M	PK	2.48364G	-45.78	-45.78
2.5G	3.1G	1M	PK	2.6992G	-61.34	-61.34

2.4-2.4835GHz_BT-BR(1Mbps) **CSE Bandedge-FS [AV]**

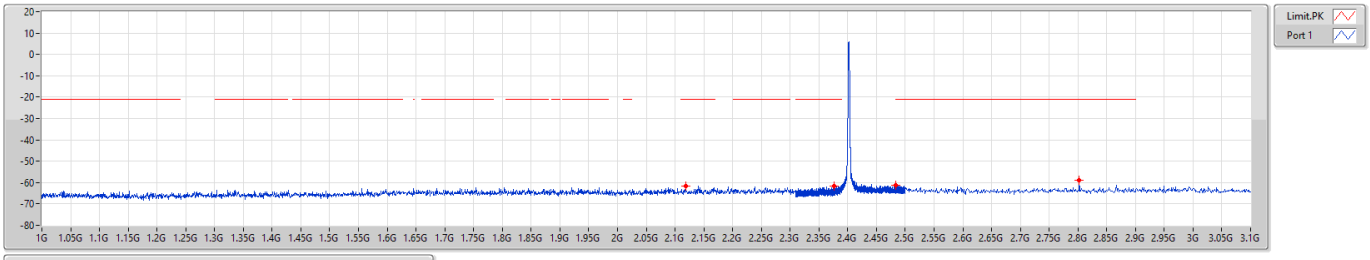
2480MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
1G	2.31G	1M	AV	1.84315G	-72.41	-72.41
2.31G	2.39G	1M	AV	2.384G	-72.91	-72.91
2.4835G	2.5G	1M	AV	2.4835G	-64.15	-64.15
2.5G	3.1G	1M	AV	2.50195G	-72.17	-72.17

2.4-2.4835GHz_BT-EDR(3Mbps) **CSE Bandedge-FS [PK]**

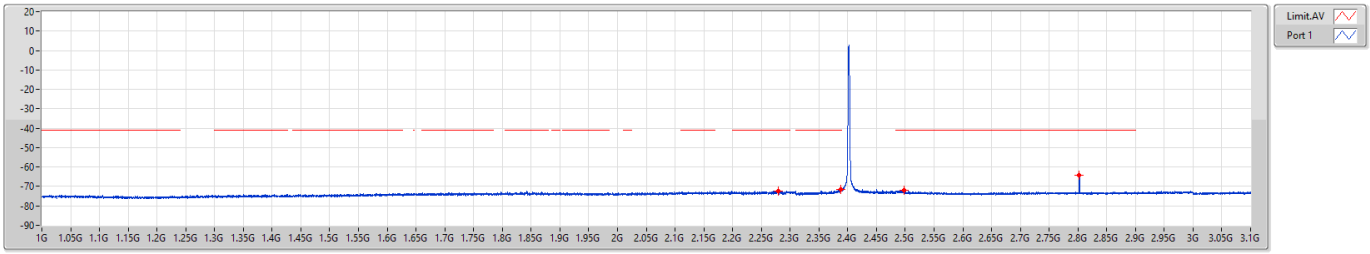
2402MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
1G	2.31G	1M	PK	2.11809G	-61.54	-61.54
2.31G	2.39G	1M	PK	2.37676G	-61.50	-61.50
2.4835G	2.5G	1M	PK	2.48384G	-61.25	-61.25
2.5G	3.1G	1M	PK	2.8024G	-58.77	-58.77

2.4-2.4835GHz_BT-EDR(3Mbps) **CSE Bandedge-FS [AV]**

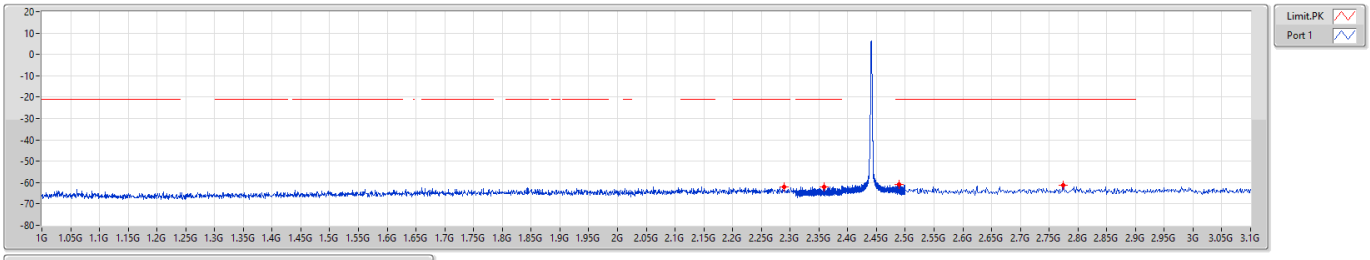
2402MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
1G	2.31G	1M	AV	2.27987G	-72.36	-72.36
2.31G	2.39G	1M	AV	2.3882G	-71.48	-71.48
2.4835G	2.5G	1M	AV	2.49807G	-71.85	-71.85
2.5G	3.1G	1M	AV	2.8024G	-64.06	-64.06

2.4-2.4835GHz_BT-EDR(3Mbps) **CSE Bandedge-FS [PK]**

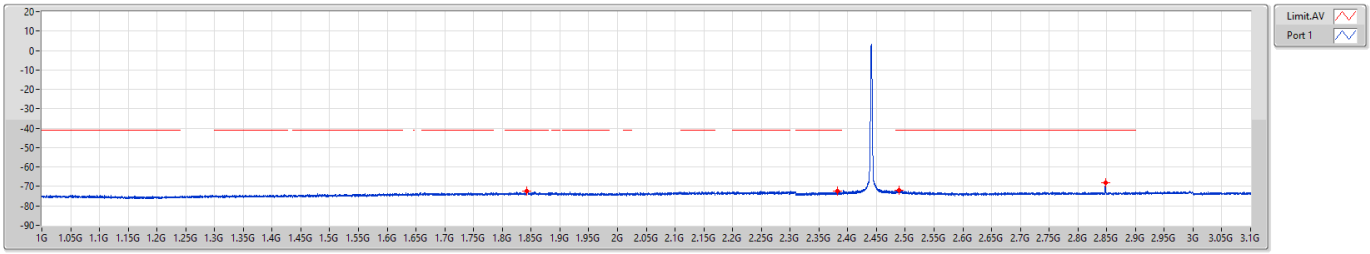
2441MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
1G	2.31G	1M	PK	2.2897G	-62.07	-62.07
2.31G	2.39G	1M	PK	2.35832G	-61.84	-61.84
2.4835G	2.5G	1M	PK	2.48916G	-60.82	-60.82
2.5G	3.1G	1M	PK	2.7748G	-61.39	-61.39

2.4-2.4835GHz_BT-EDR(3Mbps) **CSE Bandedge-FS [AV]**

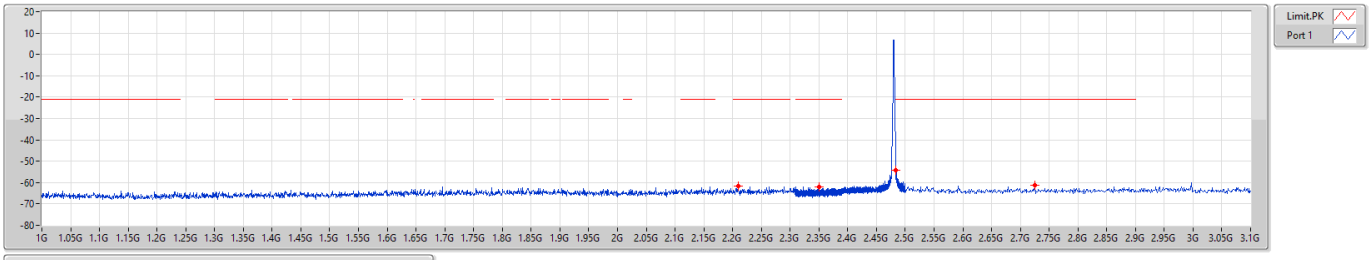
2441MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
1G	2.31G	1M	AV	1.84266G	-72.17	-72.17
2.31G	2.39G	1M	AV	2.38184G	-72.57	-72.57
2.4835G	2.5G	1M	AV	2.48907G	-72.02	-72.02
2.5G	3.1G	1M	AV	2.848G	-68.06	-68.06

2.4-2.4835GHz_BT-EDR(3Mbps) **CSE Bandedge-FS [PK]**

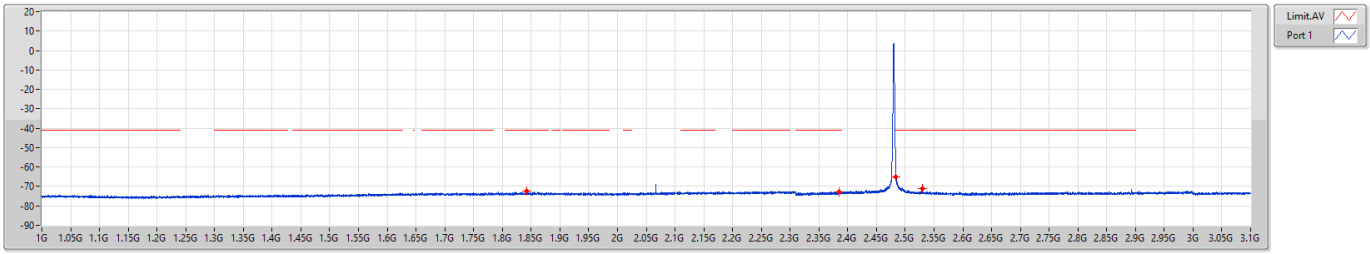
2480MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
1G	2.31G	1M	PK	2.20979G	-61.80	-61.80
2.31G	2.39G	1M	PK	2.3504G	-62.16	-62.16
2.4835G	2.5G	1M	PK	2.4835G	-54.40	-54.40
2.5G	3.1G	1M	PK	2.7256G	-61.42	-61.42

2.4-2.4835GHz_BT-EDR(3Mbps) **CSE Bandedge-FS [AV]**

2480MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
1G	2.31G	1M	AV	1.84184G	-72.32	-72.32
2.31G	2.39G	1M	AV	2.3844G	-72.60	-72.60
2.4835G	2.5G	1M	AV	2.4835G	-64.87	-64.87
2.5G	3.1G	1M	AV	2.5294G	-71.09	-71.09

Test Configuration 1: part no. 453-00391

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-BR(1Mbps)	Pass	8G	25G	PK	22.09034G	3.20	-58.76	-55.56	-21.20	-34.36
BT-EDR(3Mbps)	Pass	8G	25G	PK	22.0335G	3.20	-58.48	-55.28	-21.20	-34.08

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

Result

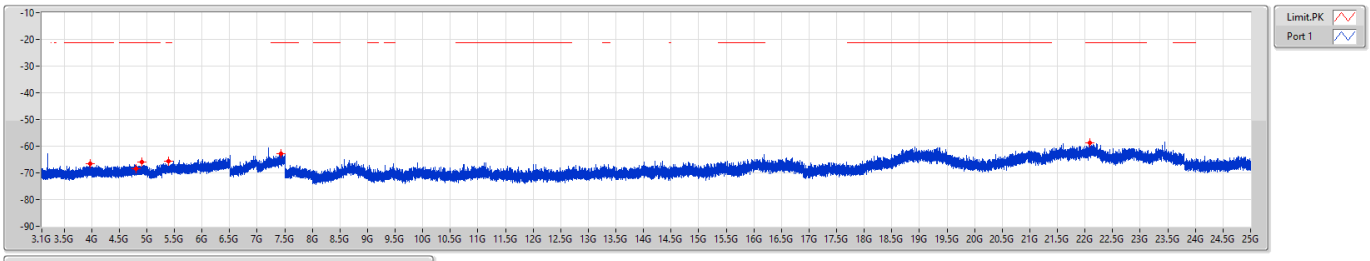
Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	3.1G	4G	PK	3.97953G	3.20	-66.71	-63.51	-21.20	-42.31
2402MHz	Pass	4G	5G	PK	4.803G	3.20	-68.55	-65.35	-21.20	-44.15
2402MHz	Pass	4G	5G	PK	4.908G	3.20	-65.81	-62.61	-21.20	-41.41
2402MHz	Pass	5G	7G	PK	5.3905G	3.20	-65.73	-62.53	-21.20	-41.33
2402MHz	Pass	7G	8G	PK	7.43825G	3.20	-62.79	-59.59	-21.20	-38.39
2402MHz	Pass	8G	25G	PK	22.09034G	3.20	-58.76	-55.56	-21.20	-34.36
2441MHz	Pass	3.1G	4G	PK	3.97368G	3.20	-67.30	-64.10	-21.20	-42.90
2441MHz	Pass	4G	5G	PK	4.58525G	3.20	-66.26	-63.06	-21.20	-41.86
2441MHz	Pass	4G	5G	PK	4.881G	3.20	-67.77	-64.57	-21.20	-43.37
2441MHz	Pass	5G	7G	PK	5.3655G	3.20	-66.00	-62.80	-21.20	-41.60
2441MHz	Pass	7G	8G	PK	7.32275G	3.20	-60.57	-57.37	-21.20	-36.17
2441MHz	Pass	8G	25G	PK	22.1525G	3.20	-58.93	-55.73	-21.20	-34.53
2480MHz	Pass	3.1G	4G	PK	3.94353G	3.20	-66.55	-63.35	-21.20	-42.15
2480MHz	Pass	4G	5G	PK	4.597G	3.20	-65.43	-62.23	-21.20	-41.03
2480MHz	Pass	4G	5G	PK	4.9605G	3.20	-66.71	-63.51	-21.20	-42.31
2480MHz	Pass	5G	7G	PK	5.38G	3.20	-66.50	-63.30	-21.20	-42.10
2480MHz	Pass	7G	8G	PK	7.4395G	3.20	-59.06	-55.86	-21.20	-34.66
2480MHz	Pass	8G	25G	PK	22.08238G	3.20	-58.81	-55.61	-21.20	-34.41
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	3.1G	4G	PK	3.97188G	3.20	-67.32	-64.12	-21.20	-42.92
2402MHz	Pass	4G	5G	PK	4.80475G	3.20	-67.31	-64.11	-21.20	-42.91
2402MHz	Pass	4G	5G	PK	4.874G	3.20	-66.18	-62.98	-21.20	-41.78
2402MHz	Pass	5G	7G	PK	5.4165G	3.20	-65.84	-62.64	-21.20	-41.44
2402MHz	Pass	7G	8G	PK	7.496G	3.20	-62.86	-59.66	-21.20	-38.46
2402MHz	Pass	8G	25G	PK	22.0335G	3.20	-58.48	-55.28	-21.20	-34.08
2441MHz	Pass	3.1G	4G	PK	3.97165G	3.20	-66.58	-63.38	-21.20	-42.18
2441MHz	Pass	4G	5G	PK	4.88175G	3.20	-68.37	-65.17	-21.20	-43.97
2441MHz	Pass	4G	5G	PK	4.94775G	3.20	-66.15	-62.95	-21.20	-41.75
2441MHz	Pass	5G	7G	PK	5.389G	3.20	-65.25	-62.05	-21.20	-40.85
2441MHz	Pass	7G	8G	PK	7.48775G	3.20	-62.96	-59.76	-21.20	-38.56
2441MHz	Pass	8G	25G	PK	22.17641G	3.20	-58.86	-55.66	-21.20	-34.46
2480MHz	Pass	3.1G	4G	PK	3.9829G	3.20	-66.31	-63.11	-21.20	-41.91

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2480MHz	Pass	4G	5G	PK	4.8825G	3.20	-65.99	-62.79	-21.20	-41.59
2480MHz	Pass	4G	5G	PK	4.96075G	3.20	-68.97	-65.77	-21.20	-44.57
2480MHz	Pass	5G	7G	PK	5.4555G	3.20	-66.16	-62.96	-21.20	-41.76
2480MHz	Pass	7G	8G	PK	7.4175G	3.20	-63.16	-59.96	-21.20	-38.76
2480MHz	Pass	8G	25G	PK	22.18756G	3.20	-59.11	-55.91	-21.20	-34.71

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX
Note: If the PK margin greater than 20 dB, there is no need to get AVG reading.

2.4-2.4835GHz_BT-BR(1Mbps) **CSE-FS [PK]**

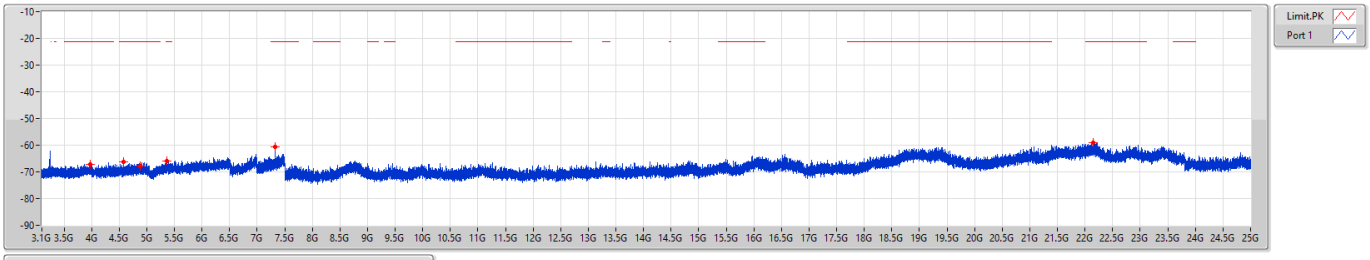
2402MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	PK	3.97953G	-66.71	-66.71
4G	5G	1M	PK	4.803G	-68.55	-68.55
4G	5G	1M	PK	4.908G	-65.81	-65.81
5G	7G	1M	PK	5.3905G	-65.73	-65.73
7G	8G	1M	PK	7.43825G	-62.79	-62.79
8G	25G	1M	PK	22.09034G	-58.76	-58.76

2.4-2.4835GHz_BT-BR(1Mbps) **CSE-FS [PK]**

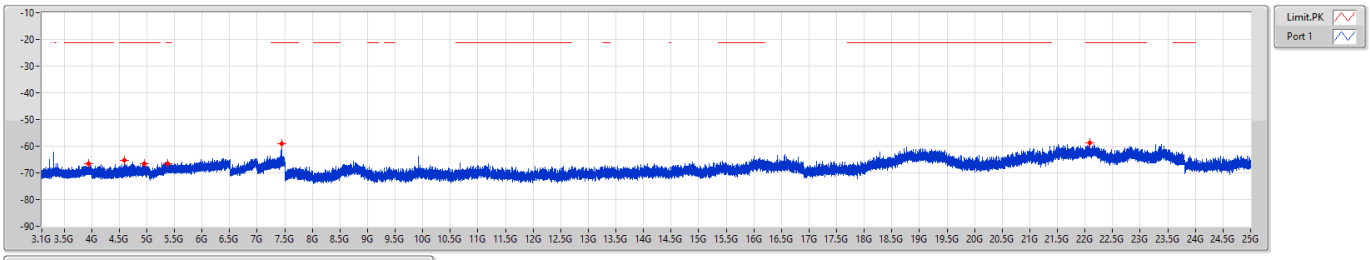
2441MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	PK	3.97368G	-67.30	-67.30
4G	5G	1M	PK	4.58525G	-66.26	-66.26
4G	5G	1M	PK	4.881G	-67.77	-67.77
5G	7G	1M	PK	5.3655G	-66.00	-66.00
7G	8G	1M	PK	7.32275G	-60.57	-60.57
8G	25G	1M	PK	22.1525G	-58.93	-58.93

2.4-2.4835GHz_BT-BR(1Mbps) **CSE-FS [PK]**

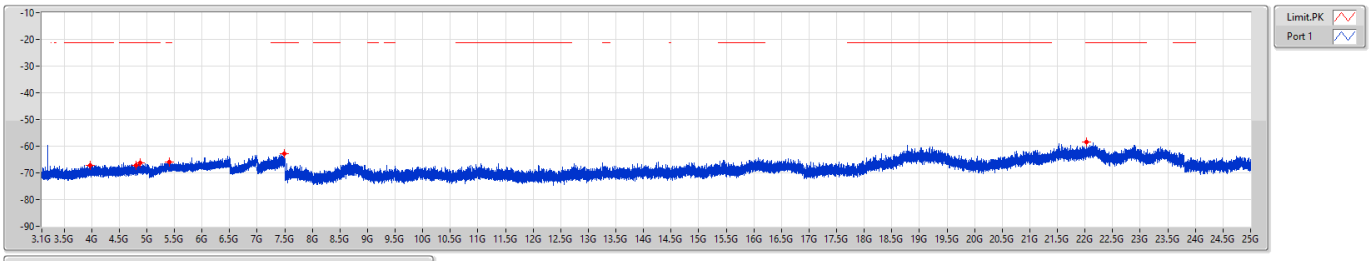
2480MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	PK	3.94353G	-66.55	-66.55
4G	5G	1M	PK	4.597G	-65.43	-65.43
4G	5G	1M	PK	4.9605G	-66.71	-66.71
5G	7G	1M	PK	5.38G	-66.50	-66.50
7G	8G	1M	PK	7.4395G	-59.06	-59.06
8G	25G	1M	PK	22.08238G	-58.81	-58.81

2.4-2.4835GHz_BT-EDR(3Mbps) **CSE-FS [PK]**

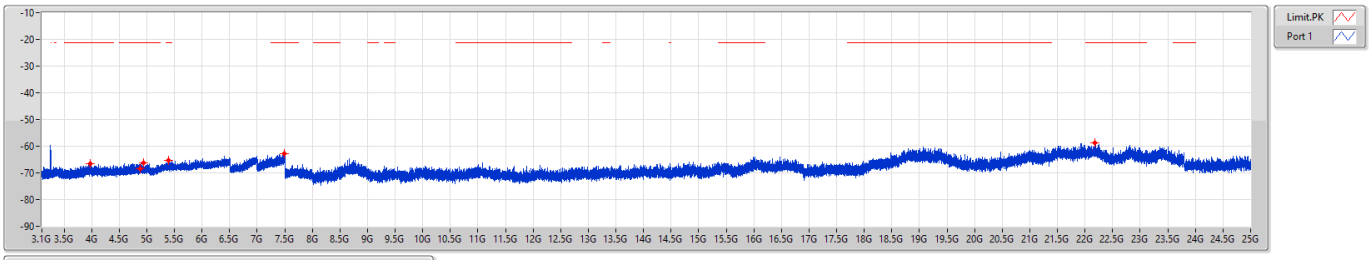
2402MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	PK	3.97188G	-67.32	-67.32
4G	5G	1M	PK	4.80475G	-67.31	-67.31
4G	5G	1M	PK	4.874G	-66.18	-66.18
5G	7G	1M	PK	5.4165G	-65.84	-65.84
7G	8G	1M	PK	7.496G	-62.86	-62.86
8G	25G	1M	PK	22.0335G	-58.48	-58.48

2.4-2.4835GHz_BT-EDR(3Mbps) **CSE-FS [PK]**

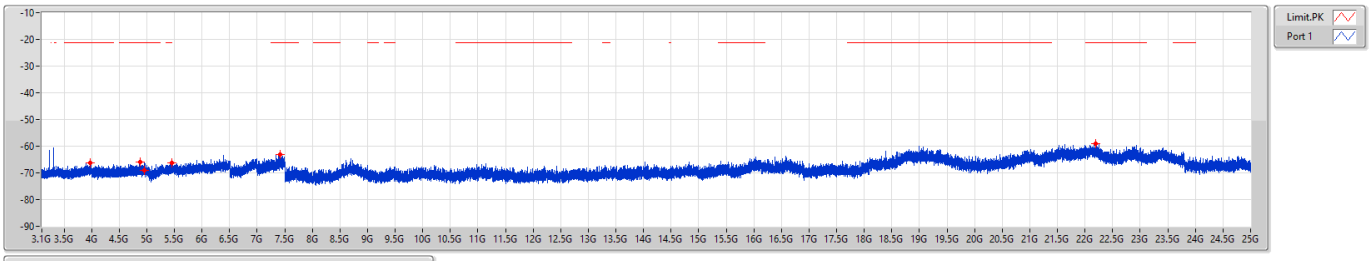
2441MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	PK	3.97165G	-66.58	-66.58
4G	5G	1M	PK	4.88175G	-68.37	-68.37
4G	5G	1M	PK	4.94775G	-66.15	-66.15
5G	7G	1M	PK	5.389G	-65.25	-65.25
7G	8G	1M	PK	7.48775G	-62.96	-62.96
8G	25G	1M	PK	22.17641G	-58.86	-58.86

2.4-2.4835GHz_BT-EDR(3Mbps) **CSE-FS [PK]**

2480MHz



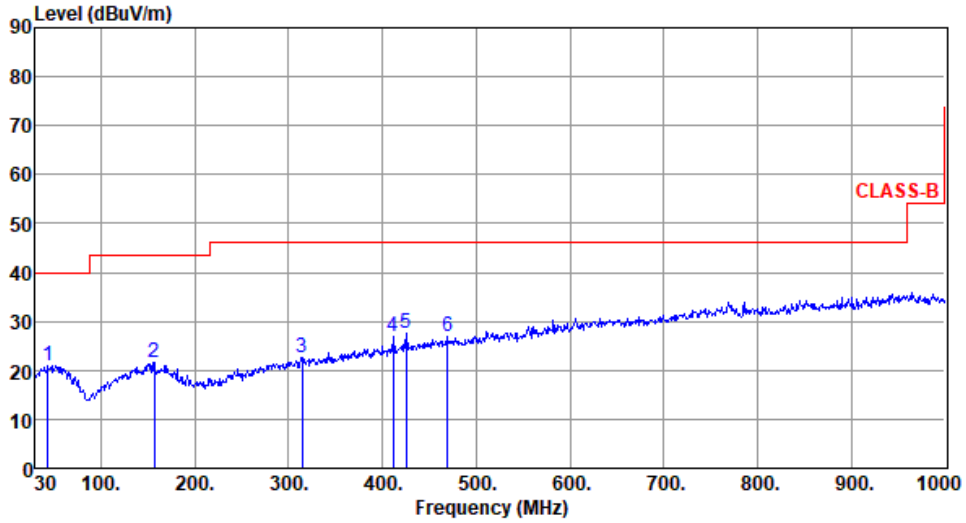
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	PK	3.9829G	-66.31	-66.31
4G	5G	1M	PK	4.8825G	-65.99	-65.99
4G	5G	1M	PK	4.96075G	-68.97	-68.97
5G	7G	1M	PK	5.4555G	-66.16	-66.16
7G	8G	1M	PK	7.4175G	-63.16	-63.16
8G	25G	1M	PK	22.18756G	-59.11	-59.11

Test Configuration 1: part no. 453-00391

Emissions (Below 1GHz)

Modulation	GFSK	**Test Freq. (MHz)**	2441
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):62

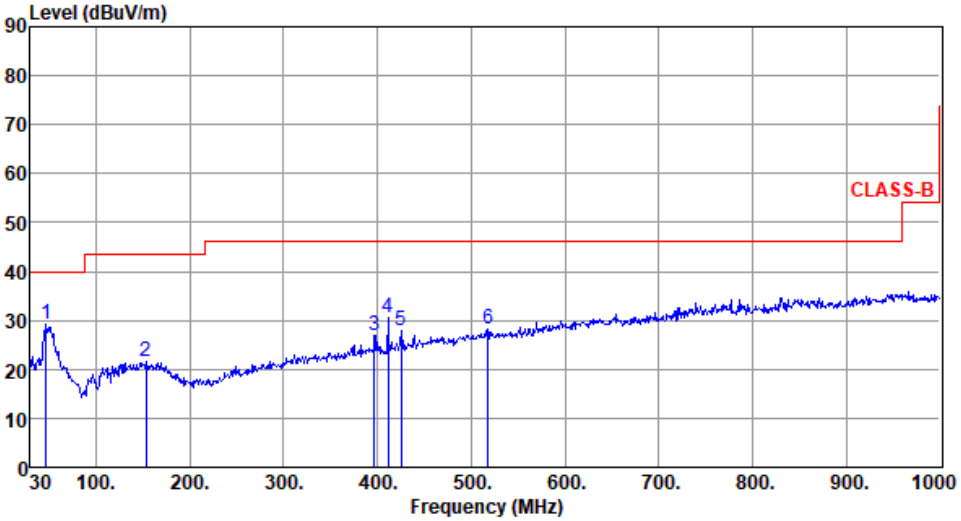


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	43.58	21.01	40.00	-18.99	29.69	-8.68	Peak	---	---
2	157.07	21.53	43.50	-21.97	30.29	-8.76	Peak	---	---
3	314.21	22.59	46.00	-23.41	30.02	-7.43	Peak	---	---
4	411.21	26.95	46.00	-19.05	32.03	-5.08	Peak	---	---
5	425.76	27.42	46.00	-18.58	31.97	-4.55	Peak	---	---
6	469.41	26.90	46.00	-19.10	30.36	-3.46	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	GFSK	**Test Freq. (MHz)**	2441
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):62



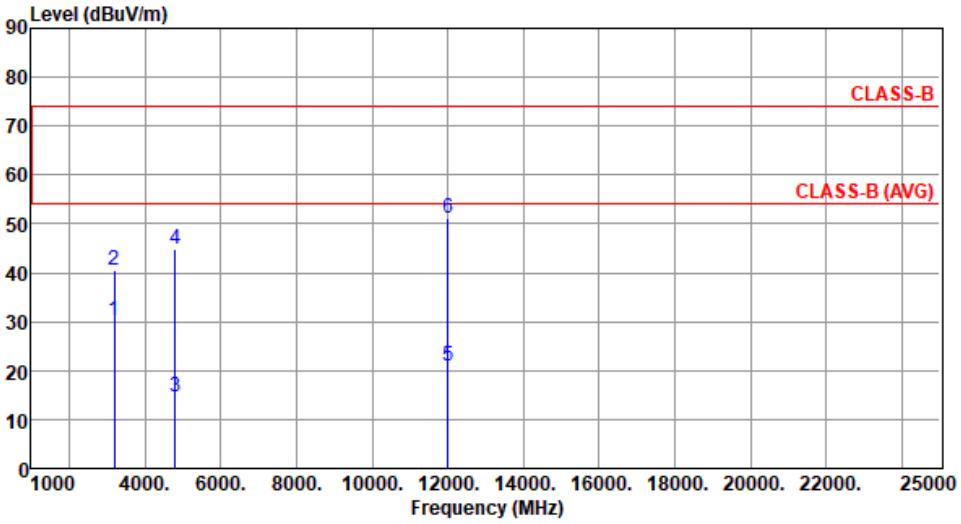
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	46.49	29.08	40.00	-10.92	37.46	-8.38	Peak	---	---
2	153.19	21.47	43.50	-22.03	30.30	-8.83	Peak	---	---
3	396.66	26.99	46.00	-19.01	32.38	-5.39	Peak	---	---
4	411.21	30.44	46.00	-15.56	35.52	-5.08	Peak	---	---
5	425.76	27.93	46.00	-18.07	32.48	-4.55	Peak	---	---
6	517.91	28.20	46.00	-17.80	30.47	-2.27	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Emissions (Above 1GHz) for GFSK

Modulation	GFSK	Test Freq. (MHz)	2402
Polarization	Horizontal		

Test By :Brad Wu- Temperature(℃):23 Humidity(%):64

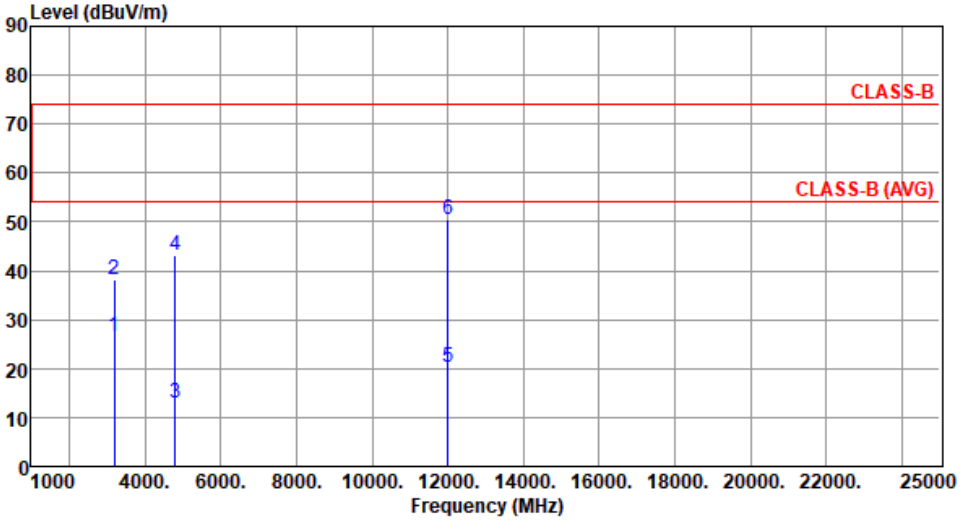


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3202.67	30.08	54.00	-23.92	31.73	-1.65	Average	256	29
2	3202.67	40.36	74.00	-33.64	42.01	-1.65	Peak	256	29
3	4804.00	14.76	54.00	-39.24	14.03	0.73	Average	120	20
4	4804.00	44.86	74.00	-29.14	44.13	0.73	Peak	120	20
5	12010.00	20.96	54.00	-33.04	12.76	8.20	Average	100	10
6	12010.00	51.06	74.00	-22.94	42.86	8.20	Peak	100	10

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: When average value is calculated not measured, no SA reading and factor value are listed.

Modulation	GFSK	**Test Freq. (MHz)**	2402
Polarization	Vertical		

Test By :Brad Wu- Temperature(℃):23 Humidity(%):64

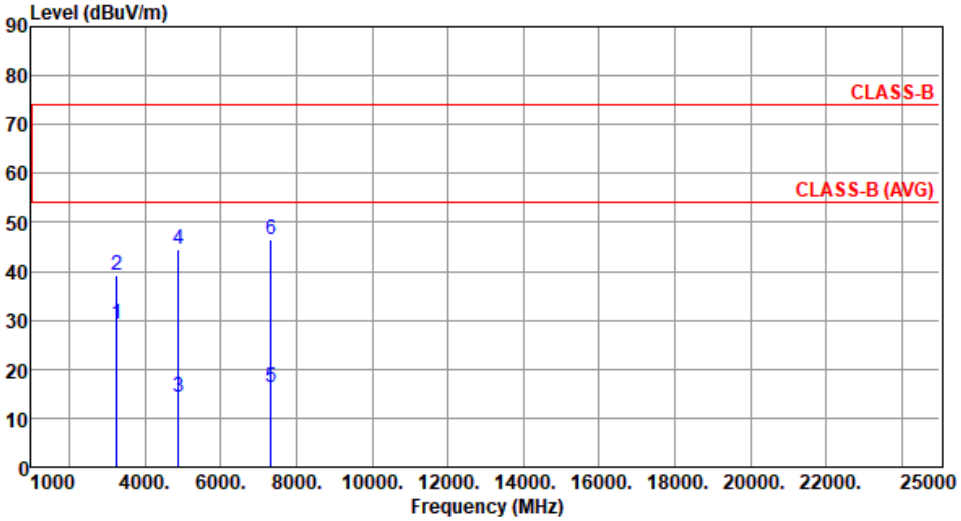


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3202.67	26.69	54.00	-27.31	28.34	-1.65	Average	100	15
2	3202.67	38.27	74.00	-35.73	39.92	-1.65	Peak	100	15
3	4804.00	13.03	54.00	-40.97	12.30	0.73	Average	305	352
4	4804.00	43.13	74.00	-30.87	42.40	0.73	Peak	305	352
5	12010.00	20.26	54.00	-33.74	12.06	8.20	Average	100	20
6	12010.00	50.36	74.00	-23.64	42.16	8.20	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: When average value is calculated not measured, no SA reading and factor value are listed.

Modulation	GFSK	**Test Freq. (MHz)**	2441
Polarization	Horizontal		

Test By :Brad Wu- Temperature(℃):23 Humidity(%):64

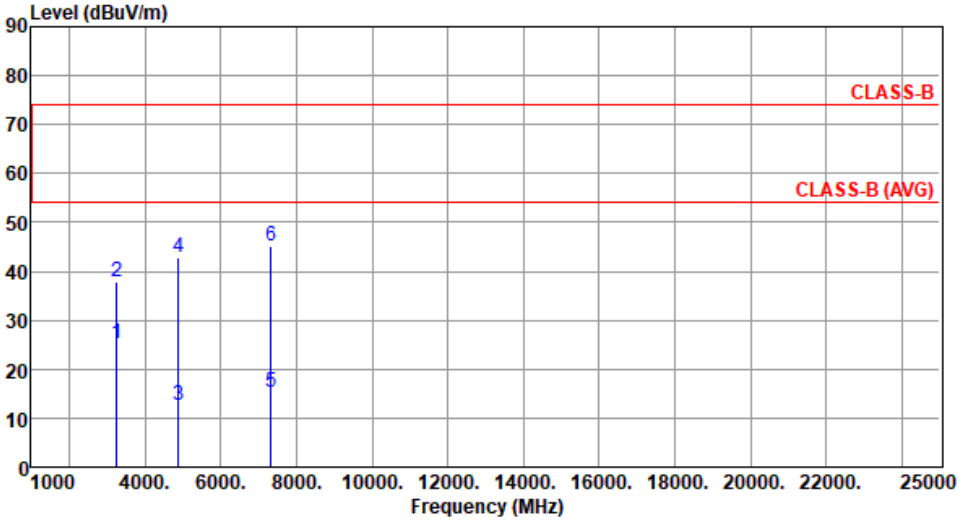


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3254.67	29.09	54.00	-24.91	31.01	-1.92	Average	117	24
2	3254.67	39.10	74.00	-34.90	41.02	-1.92	Peak	117	24
3	4882.00	14.43	54.00	-39.57	13.72	0.71	Average	136	19
4	4882.00	44.53	74.00	-29.47	43.82	0.71	Peak	136	19
5	7323.00	16.40	54.00	-37.60	10.03	6.37	Average	196	34
6	7323.00	46.50	74.00	-27.50	40.13	6.37	Peak	196	34

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: When average value is calculated not measured, no SA reading and factor value are listed.

Modulation	GFSK	**Test Freq. (MHz)**	2441
Polarization	Vertical		

Test By :Brad Wu- Temperature(℃):23 Humidity(%):64

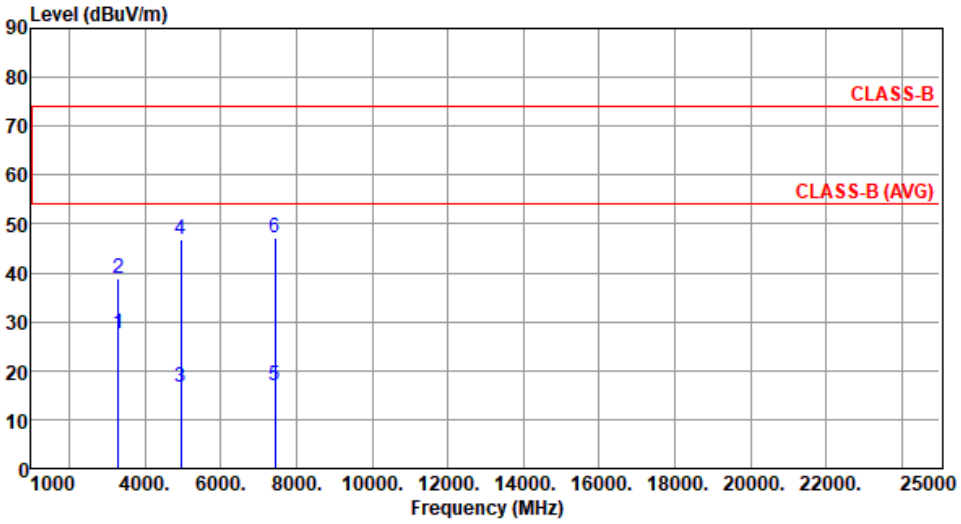


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3254.67	25.40	54.00	-28.60	27.32	-1.92	Average	100	20
2	3254.67	37.98	74.00	-36.02	39.90	-1.92	Peak	100	20
3	4882.00	12.69	54.00	-41.31	11.98	0.71	Average	295	0
4	4882.00	42.79	74.00	-31.21	42.08	0.71	Peak	295	0
5	7323.00	15.13	54.00	-38.87	8.76	6.37	Average	100	10
6	7323.00	45.23	74.00	-28.77	38.86	6.37	Peak	100	10

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: When average value is calculated not measured, no SA reading and factor value are listed.

Modulation	GFSK	**Test Freq. (MHz)**	2480
Polarization	Horizontal		

Test By :Brad Wu- Temperature(℃):23 Humidity(%):64

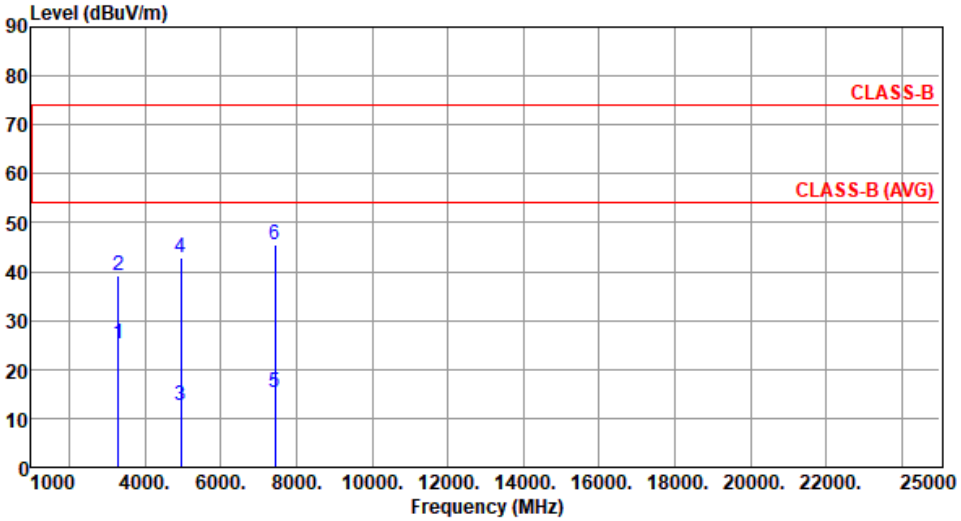


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3306.67	27.48	54.00	-26.52	29.48	-2.00	Average	100	29
2	3306.67	38.78	74.00	-35.22	40.78	-2.00	Peak	100	29
3	4960.00	16.64	54.00	-37.36	15.69	0.95	Average	107	20
4	4960.00	46.74	74.00	-27.26	45.79	0.95	Peak	107	20
5	7440.00	17.04	54.00	-36.96	10.47	6.57	Average	178	27
6	7440.00	47.14	74.00	-26.86	40.57	6.57	Peak	178	27

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: When average value is calculated not measured, no SA reading and factor value are listed.

Modulation	GFSK	**Test Freq. (MHz)**	2480
Polarization	Vertical		

Test By :Brad Wu- Temperature(℃):23 Humidity(%):64



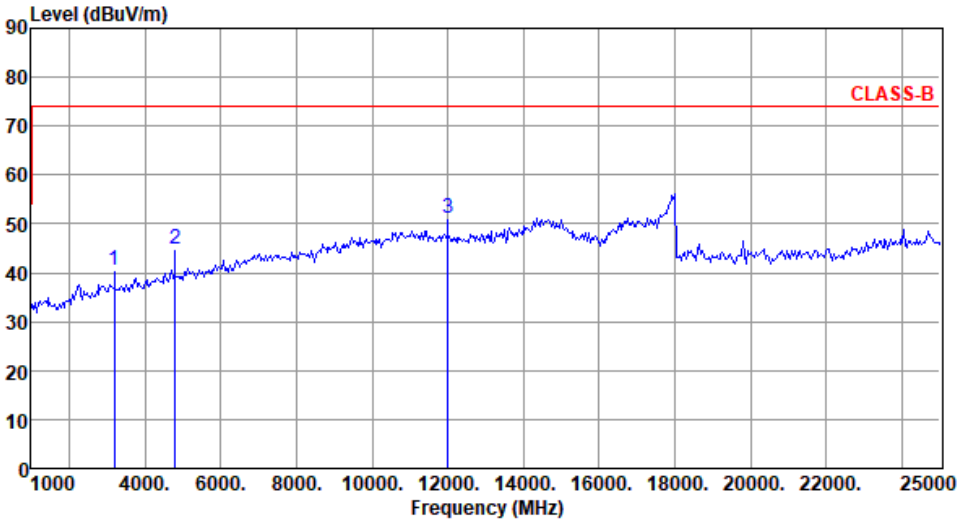
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3306.67	25.10	54.00	-28.90	27.10	-2.00	Average	100	12
2	3306.67	39.11	74.00	-34.89	41.11	-2.00	Peak	100	12
3	4960.00	12.75	54.00	-41.25	11.80	0.95	Average	291	5
4	4960.00	42.85	74.00	-31.15	41.90	0.95	Peak	291	5
5	7440.00	15.26	54.00	-38.74	8.69	6.57	Average	100	24
6	7440.00	45.36	74.00	-28.64	38.79	6.57	Peak	100	24

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: When average value is calculated not measured, no SA reading and factor value are listed.

Emissions (Above 1GHz) for 8DPSK

Modulation	GFSK	**Test Freq. (MHz)**	2402
Polarization	Horizontal-Peak Value		

Test By :Brad Wu- Temperature(℃):23 Humidity(%):64

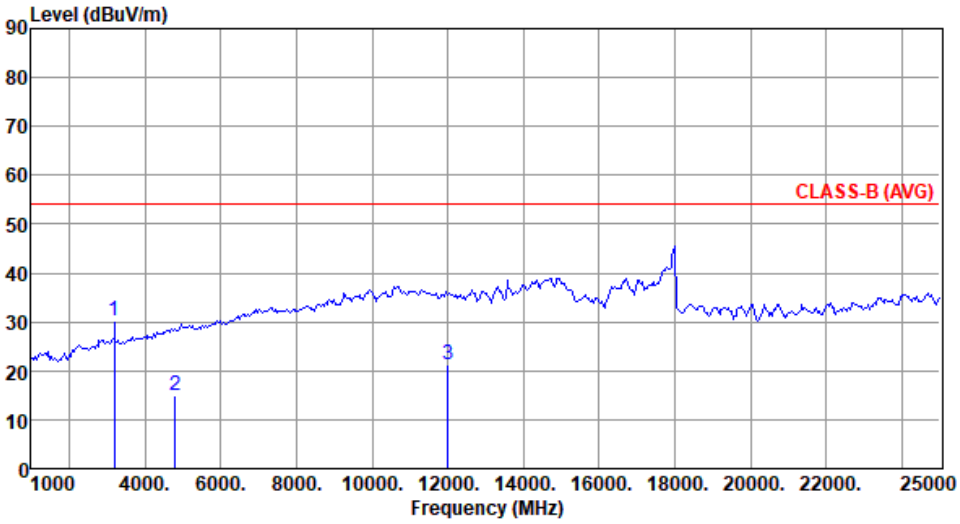


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3202.67	40.42	74.00	-33.58	42.07	-1.65	Peak	251	34
2	4804.00	44.95	74.00	-29.05	44.22	0.73	Peak	115	26
3	12010.00	51.21	74.00	-22.79	43.01	8.20	Peak	100	15

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: When average value is calculated not measured, no SA reading and factor value are listed.

Modulation	GFSK	**Test Freq. (MHz)**	2402
Polarization	Horizontal-Average Value		

Test By :Brad Wu- Temperature(℃):23 Humidity(%):64

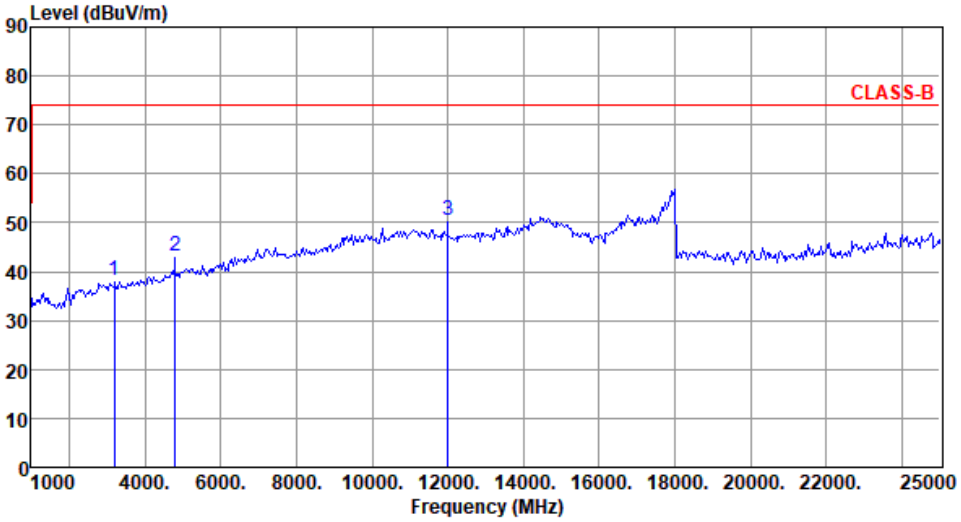


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3202.67	30.19	54.00	-23.81	31.84	-1.65	Average	251	34
2	4804.00	14.85	54.00	-39.15	14.12	0.73	Average	115	26
3	12010.00	21.11	54.00	-32.89	12.91	8.20	Average	100	15

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: When average value is calculated not measured, no SA reading and factor value are listed.

Modulation	GFSK	**Test Freq. (MHz)**	2402
Polarization	Vertical-Peak Value		

Test By :Brad Wu- Temperature(℃):23 Humidity(%):64

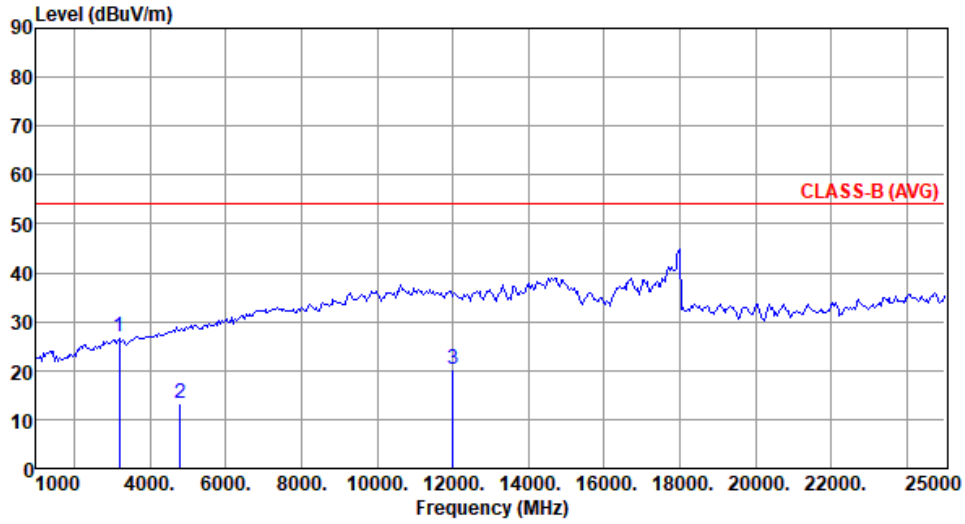


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3202.67	38.33	74.00	-35.67	39.98	-1.65	Peak	100	23
2	4804.00	43.26	74.00	-30.74	42.53	0.73	Peak	296	345
3	12010.00	50.42	74.00	-23.58	42.22	8.20	Peak	100	18

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: When average value is calculated not measured, no SA reading and factor value are listed.

Modulation	GFSK	**Test Freq. (MHz)**	2402
Polarization	Vertical -Average Value		

Test By :Brad Wu- Temperature(℃):23 Humidity(%):64

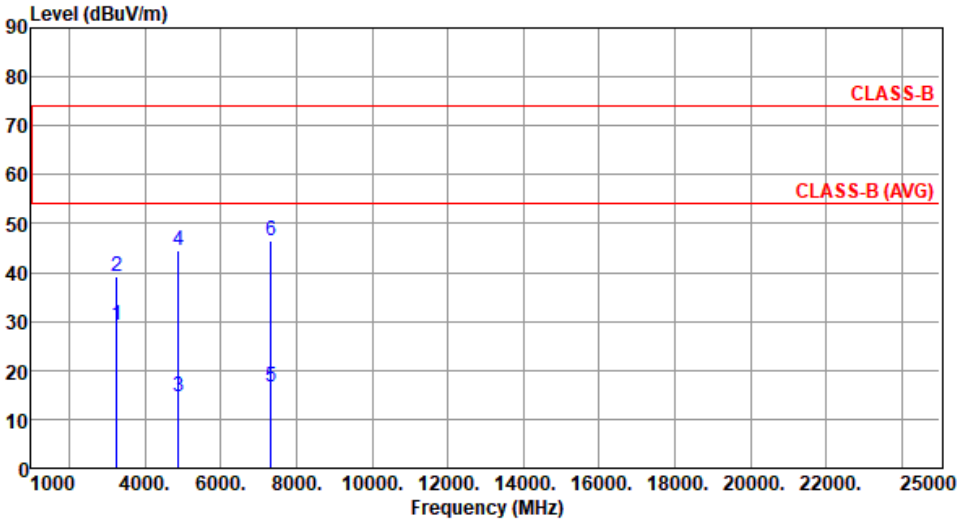


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3202.67	26.75	54.00	-27.25	28.40	-1.65	Average	100	23
2	4804.00	13.16	54.00	-40.84	12.43	0.73	Average	296	345
3	12010.00	20.32	54.00	-33.68	12.12	8.20	Average	100	18

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: When average value is calculated not measured, no SA reading and factor value are listed.

Modulation	8DPSK	**Test Freq. (MHz)**	2441
Polarization	Horizontal		

Test By :Brad Wu- Temperature(℃):23 Humidity(%):64

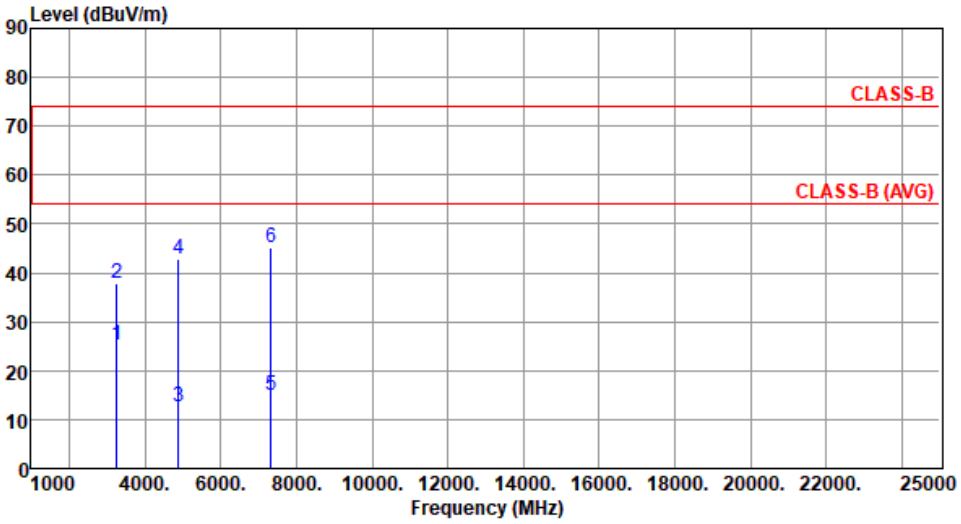


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3254.67	29.22	54.00	-24.78	31.14	-1.92	Average	114	32
2	3254.67	39.26	74.00	-34.74	41.18	-1.92	Peak	114	32
3	4882.00	14.48	54.00	-39.52	13.77	0.71	Average	134	25
4	4882.00	44.58	74.00	-29.42	43.87	0.71	Peak	134	25
5	7323.00	16.51	54.00	-37.49	10.14	6.37	Average	194	31
6	7323.00	46.61	74.00	-27.39	40.24	6.37	Peak	194	31

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: When average value is calculated not measured, no SA reading and factor value are listed.

Modulation	8DPSK	**Test Freq. (MHz)**	2441
Polarization	Vertical		

Test By :Brad Wu- Temperature(℃):23 Humidity(%):64

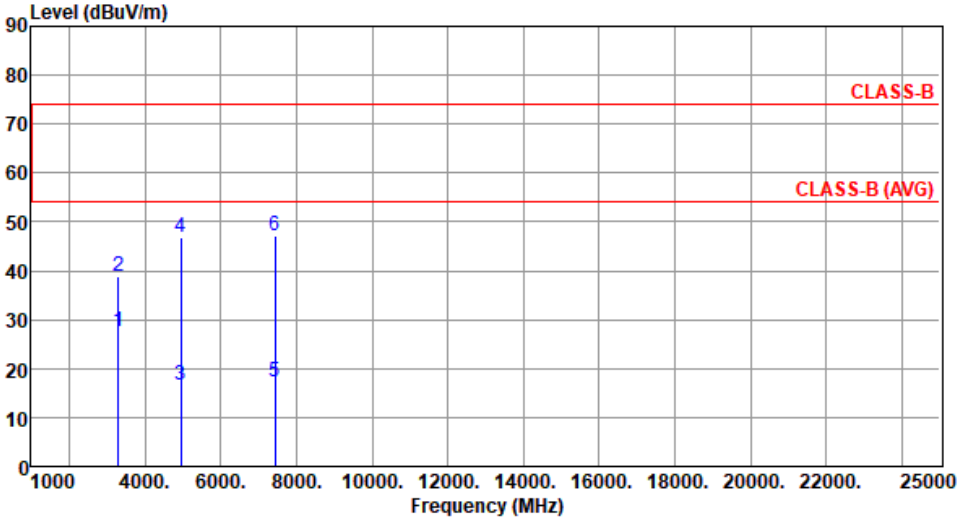


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3254.67	25.34	54.00	-28.66	27.26	-1.92	Average	100	28
2	3254.67	37.86	74.00	-36.14	39.78	-1.92	Peak	100	28
3	4882.00	12.76	54.00	-41.24	12.05	0.71	Average	284	5
4	4882.00	42.86	74.00	-31.14	42.15	0.71	Peak	284	5
5	7323.00	15.09	54.00	-38.91	8.72	6.37	Average	100	14
6	7323.00	45.19	74.00	-28.81	38.82	6.37	Peak	100	14

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: When average value is calculated not measured, no SA reading and factor value are listed.

Modulation	8DPSK	**Test Freq. (MHz)**	2480
Polarization	Horizontal		

Test By :Brad Wu- Temperature(℃):23 Humidity(%):64

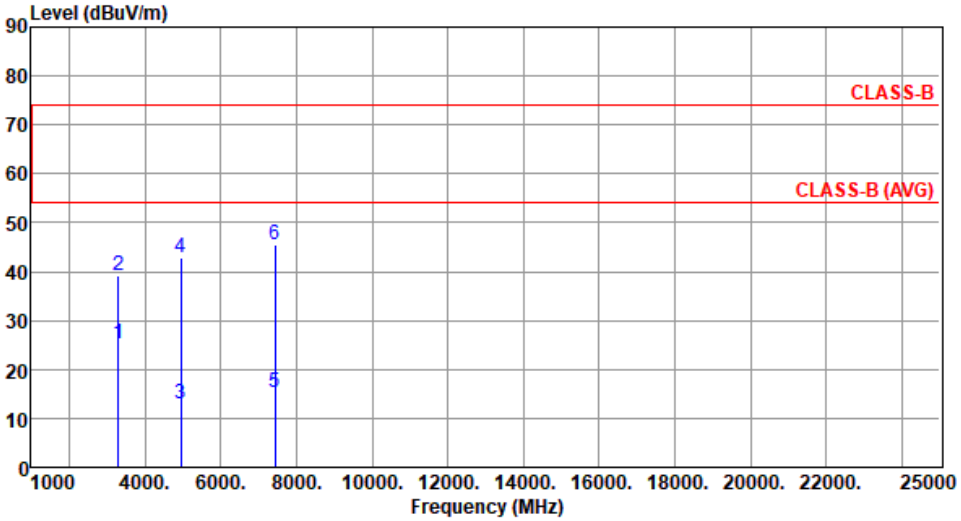


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3306.67	27.56	54.00	-26.44	29.56	-2.00	Average	100	31
2	3306.67	38.84	74.00	-35.16	40.84	-2.00	Peak	100	31
3	4960.00	16.72	54.00	-37.28	15.77	0.95	Average	105	26
4	4960.00	46.82	74.00	-27.18	45.87	0.95	Peak	105	26
5	7440.00	17.16	54.00	-36.84	10.59	6.57	Average	159	25
6	7440.00	47.26	74.00	-26.74	40.69	6.57	Peak	159	25

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: When average value is calculated not measured, no SA reading and factor value are listed.

Modulation	8DPSK	**Test Freq. (MHz)**	2480
Polarization	Vertical		

Test By :Brad Wu- Temperature(℃):23 Humidity(%):64



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3306.67	25.24	54.00	-28.76	27.24	-2.00	Average	100	39
2	3306.67	39.26	74.00	-34.74	41.26	-2.00	Peak	100	39
3	4960.00	12.81	54.00	-41.19	11.86	0.95	Average	284	6
4	4960.00	42.91	74.00	-31.09	41.96	0.95	Peak	284	6
5	7440.00	15.38	54.00	-38.62	8.81	6.57	Average	100	34
6	7440.00	45.48	74.00	-28.52	38.91	6.57	Peak	100	34

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: When average value is calculated not measured, no SA reading and factor value are listed.

Test Configuration 2: part no. 453-00392

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-BR(1Mbps)	Pass	30M	1G	PK	37.52M	2.32	-75.98	4.7	-68.96	-55.20	-13.76

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

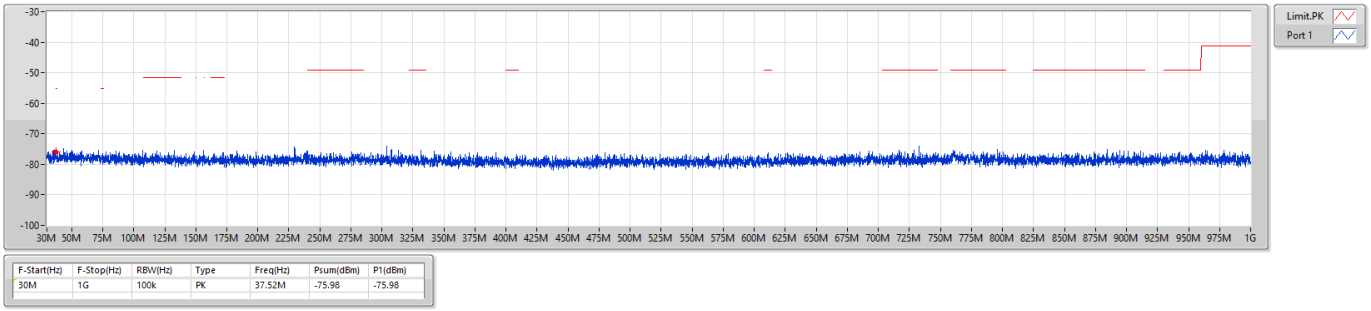
Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	GRF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
BT-BR(1Mbps)	-	-	-	-	-	-	-		-	-	-
2480MHz	Pass	30M	1G	PK	37.52M	2.32	-75.98	4.7	-68.96	-55.20	-13.76

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

2.4-2.4835GHz_BT-BR(1Mbps) **CSE Other-FS [PK]**

2480MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
30M	1G	100k	PK	37.52M	-75.98	-75.98

Test Configuration 2: part no. 453-00392

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-EDR(3Mbps)	Pass	2.5G	3.1G	AV	2.8024G	2.32	-64.51	-62.19	-41.20	-20.99

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

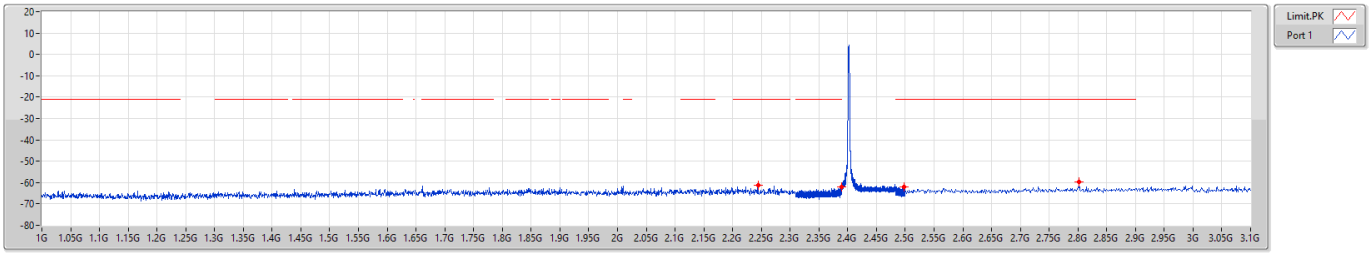
Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	1G	2.31G	AV	1.84724G	2.32	-72.51	-70.19	-41.20	-28.99
2402MHz	Pass	2.31G	2.39G	AV	2.38828G	2.32	-72.36	-70.04	-41.20	-28.84
2402MHz	Pass	2.4835G	2.5G	AV	2.48429G	2.32	-72.56	-70.24	-41.20	-29.04
2402MHz	Pass	2.5G	3.1G	AV	2.8024G	2.32	-64.51	-62.19	-41.20	-20.99
2402MHz	Pass	1G	2.31G	PK	2.2445G	2.32	-61.42	-59.10	-21.20	-37.90
2402MHz	Pass	2.31G	2.39G	PK	2.38872G	2.32	-61.87	-59.55	-21.20	-38.35
2402MHz	Pass	2.4835G	2.5G	PK	2.49852G	2.32	-62.02	-59.70	-21.20	-38.50
2402MHz	Pass	2.5G	3.1G	PK	2.8024G	2.32	-59.75	-57.43	-21.20	-36.23

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

2.4-2.4835GHz_BT-EDR(3Mbps) **CSE Bandedge-FS [PK]**

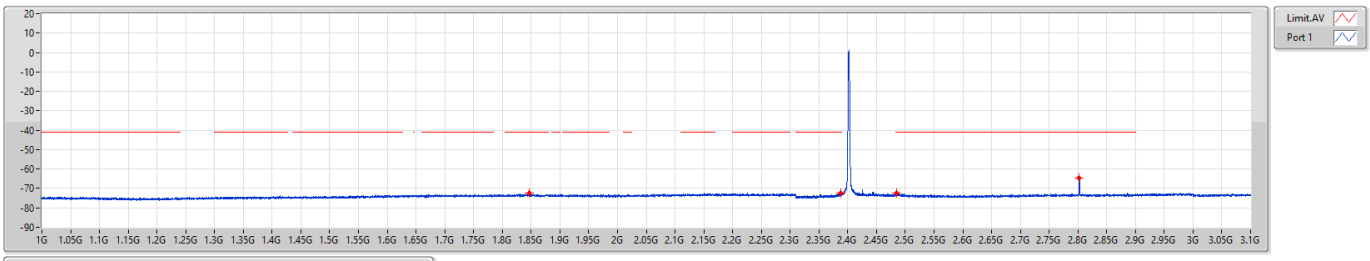
2402MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
1G	2.31G	1M	PK	2.2445G	-61.42	-61.42
2.31G	2.39G	1M	PK	2.38872G	-61.87	-61.87
2.4835G	2.5G	1M	PK	2.49852G	-62.02	-62.02
2.5G	3.1G	1M	PK	2.8024G	-59.75	-59.75

2.4-2.4835GHz_BT-EDR(3Mbps) **CSE Bandedge-FS [AV]**

2402MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
1G	2.31G	1M	AV	1.84724G	-72.51	-72.51
2.31G	2.39G	1M	AV	2.38828G	-72.36	-72.36
2.4835G	2.5G	1M	AV	2.48429G	-72.56	-72.56
2.5G	3.1G	1M	AV	2.8024G	-64.51	-64.51

Test Configuration 2: part no. 453-00392

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-EDR(3Mbps)	Pass	8G	25G	PK	22.16472G	2.32	-58.61	-56.29	-21.20	-35.09

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

Result

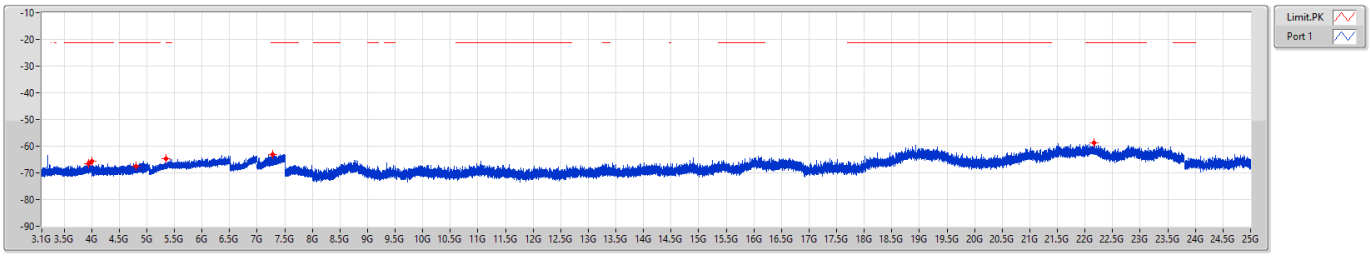
Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	3.1G	4G	PK	3.95208G	2.32	-66.64	-64.32	-21.20	-43.12
2402MHz	Pass	4G	5G	PK	4.00325G	2.32	-65.68	-63.36	-21.20	-42.16
2402MHz	Pass	4G	5G	PK	4.8035G	2.32	-67.47	-65.15	-21.20	-43.95
2402MHz	Pass	5G	7G	PK	5.3525G	2.32	-64.83	-62.51	-21.20	-41.31
2402MHz	Pass	7G	8G	PK	7.27925G	2.32	-63.02	-60.70	-21.20	-39.50
2402MHz	Pass	8G	25G	PK	22.16472G	2.32	-58.61	-56.29	-21.20	-35.09

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

Note: If the PK margin greater than 20 dB, there is no need to get AVG reading.

2.4-2.4835GHz_BT-EDR(3Mbps) **CSE-FS [PK]**

2402MHz



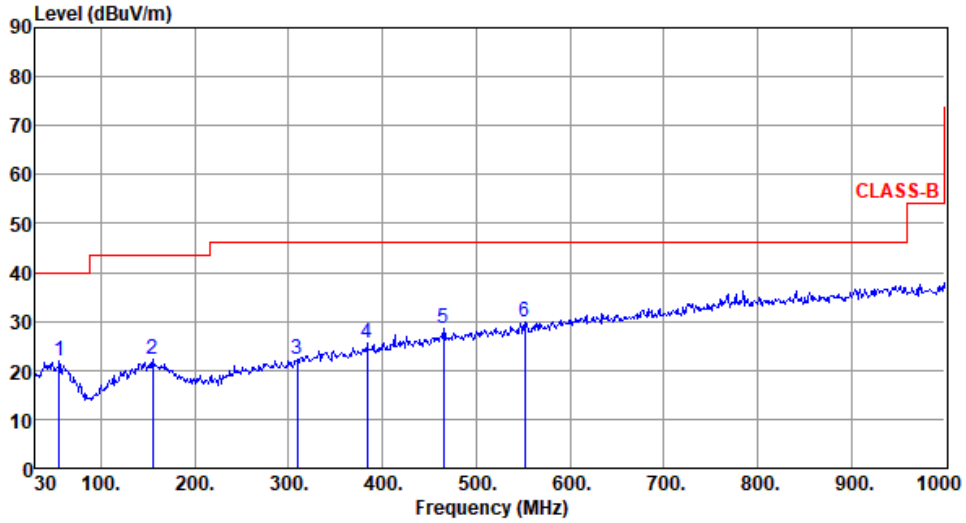
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	PK	3.95208G	-66.64	-66.64
4G	5G	1M	PK	4.00325G	-65.68	-65.68
4G	5G	1M	PK	4.8035G	-67.47	-67.47
5G	7G	1M	PK	5.3525G	-64.83	-64.83
7G	8G	1M	PK	7.27925G	-63.02	-63.02
8G	25G	1M	PK	22.16472G	-58.61	-58.61

Test Configuration 2: part no. 453-00392

Emissions (Below 1GHz)

Modulation	8DPSK	**Test Freq. (MHz)**	2402
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):65

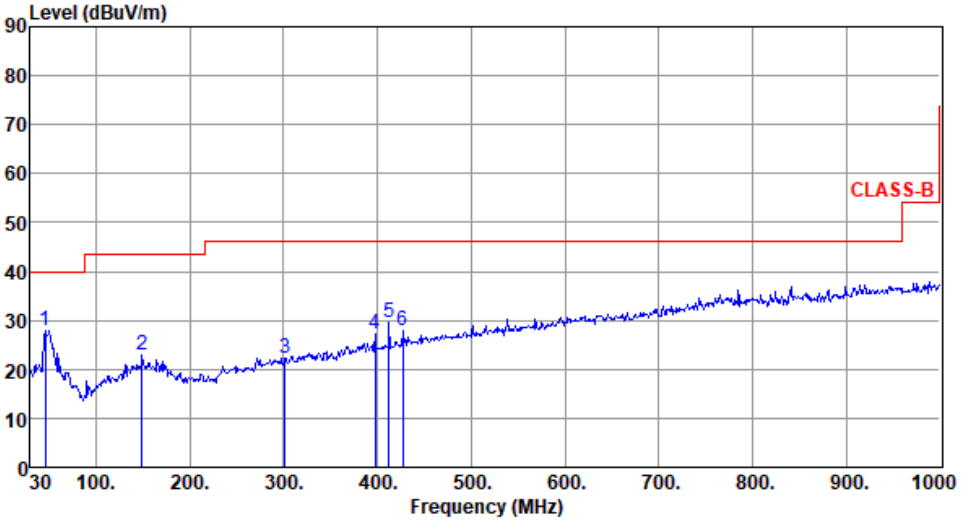


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	55.22	22.06	40.00	-17.94	30.56	-8.50	Peak	---	---
2	155.13	22.09	43.50	-21.41	30.67	-8.58	Peak	---	---
3	309.36	22.36	46.00	-23.64	30.00	-7.64	Peak	---	---
4	384.05	25.65	46.00	-20.35	31.23	-5.58	Peak	---	---
5	465.53	28.52	46.00	-17.48	32.00	-3.48	Peak	---	---
6	551.86	29.76	46.00	-16.24	31.48	-1.72	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	8DPSK	**Test Freq. (MHz)**	2402
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):24 Humidity(%):65



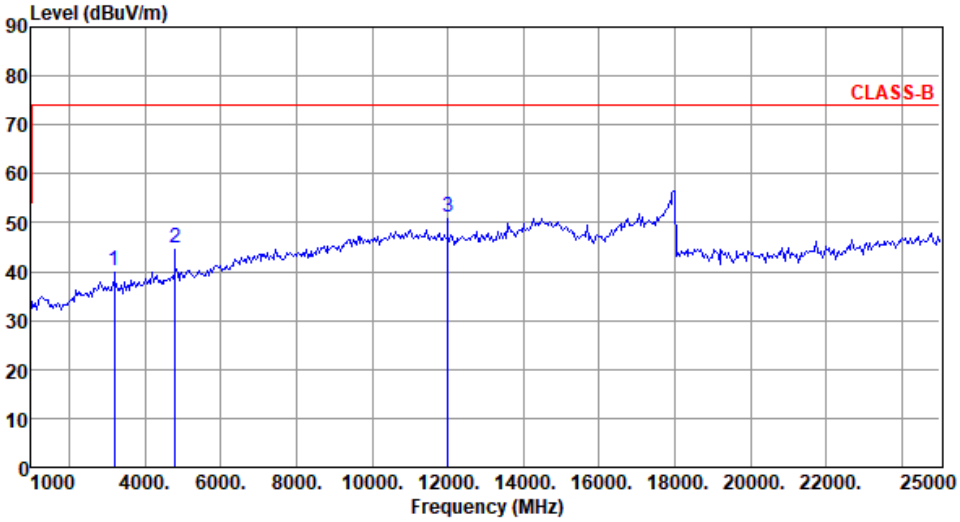
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	45.52	27.90	40.00	-12.10	36.29	-8.39	Peak	---	---
2	149.31	22.89	43.50	-20.61	31.72	-8.83	Peak	---	---
3	301.60	22.16	46.00	-23.84	30.06	-7.90	Peak	---	---
4	397.63	27.34	46.00	-18.66	32.73	-5.39	Peak	---	---
5	412.18	29.43	46.00	-16.57	34.47	-5.04	Peak	---	---
6	426.73	28.00	46.00	-18.00	32.53	-4.53	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Emissions (Above 1GHz) for 8DPSK

Modulation	GFSK	**Test Freq. (MHz)**	2402
Polarization	Horizontal-Peak Value		

Test By :Brad Wu- Temperature(℃):24 Humidity(%):65

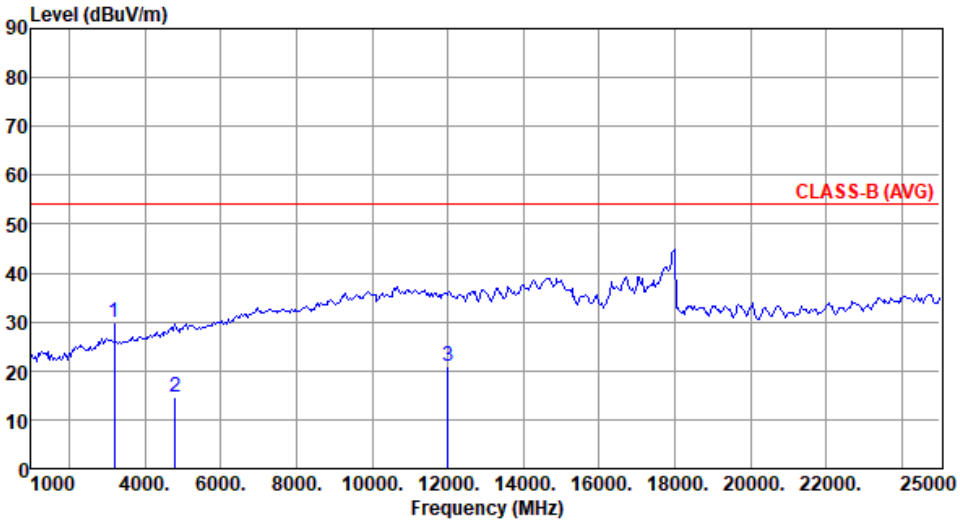


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3202.67	40.29	74.00	-33.71	41.94	-1.65	Peak	249	33
2	4804.00	44.82	74.00	-29.18	44.09	0.73	Peak	116	27
3	12010.00	51.10	74.00	-22.90	42.90	8.20	Peak	100	18

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: When average value is calculated not measured, no SA reading and factor value are listed.

Modulation	GFSK	**Test Freq. (MHz)**	2402
Polarization	Horizontal-Average Value		

Test By :Brad Wu- Temperature(℃):24 Humidity(%):65

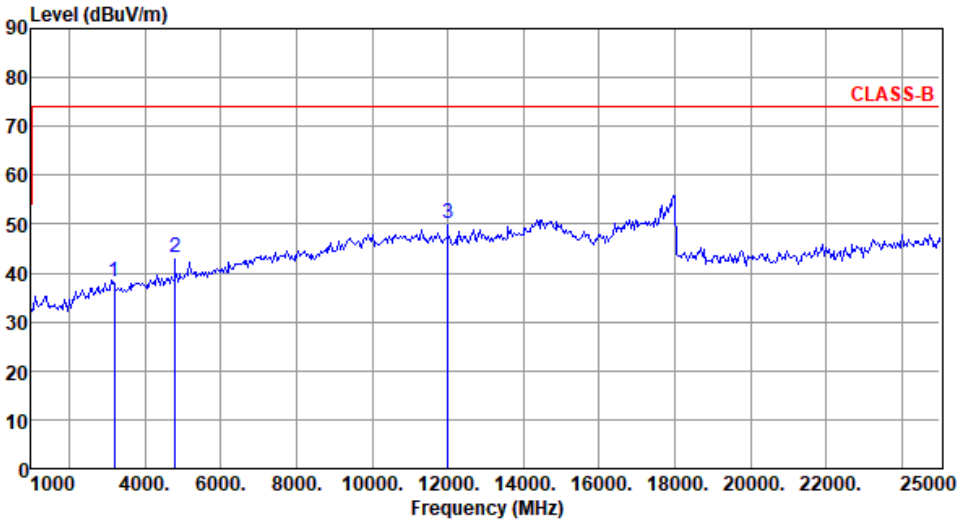


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3202.67	30.02	54.00	-23.98	31.67	-1.65	Average	249	33
2	4804.00	14.72	54.00	-39.28	13.99	0.73	Average	116	27
3	12010.00	21.00	54.00	-33.00	12.80	8.20	Average	100	18

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: When average value is calculated not measured, no SA reading and factor value are listed.

Modulation	GFSK	**Test Freq. (MHz)**	2402
Polarization	Vertical-Peak Value		

Test By :Brad Wu- Temperature(℃):24 Humidity(%):65

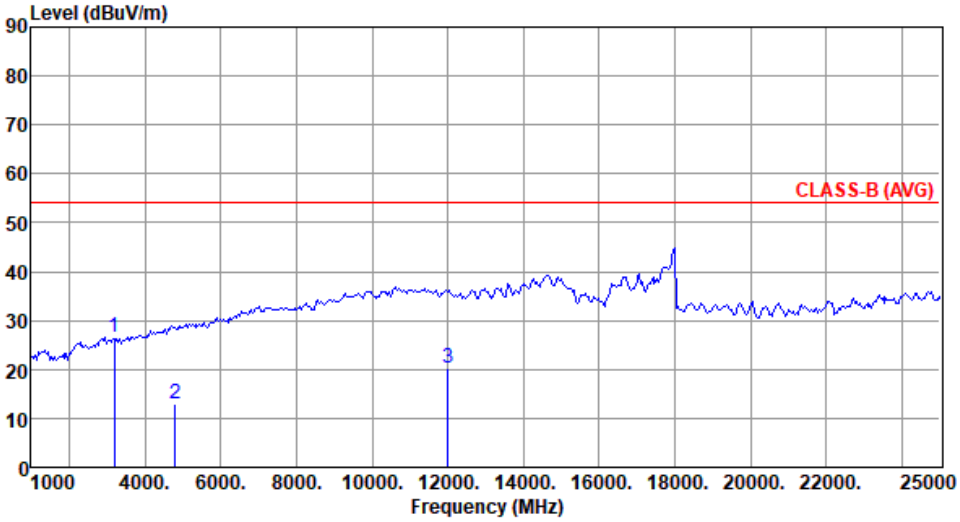


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3202.67	38.19	74.00	-35.81	39.84	-1.65	Peak	100	25
2	4804.00	43.13	74.00	-30.87	42.40	0.73	Peak	295	343
3	12010.00	50.22	74.00	-23.78	42.02	8.20	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: When average value is calculated not measured, no SA reading and factor value are listed.

Modulation	GFSK	**Test Freq. (MHz)**	2402
Polarization	Vertical -Average Value		

Test By :Brad Wu- Temperature(℃):24 Humidity(%):65

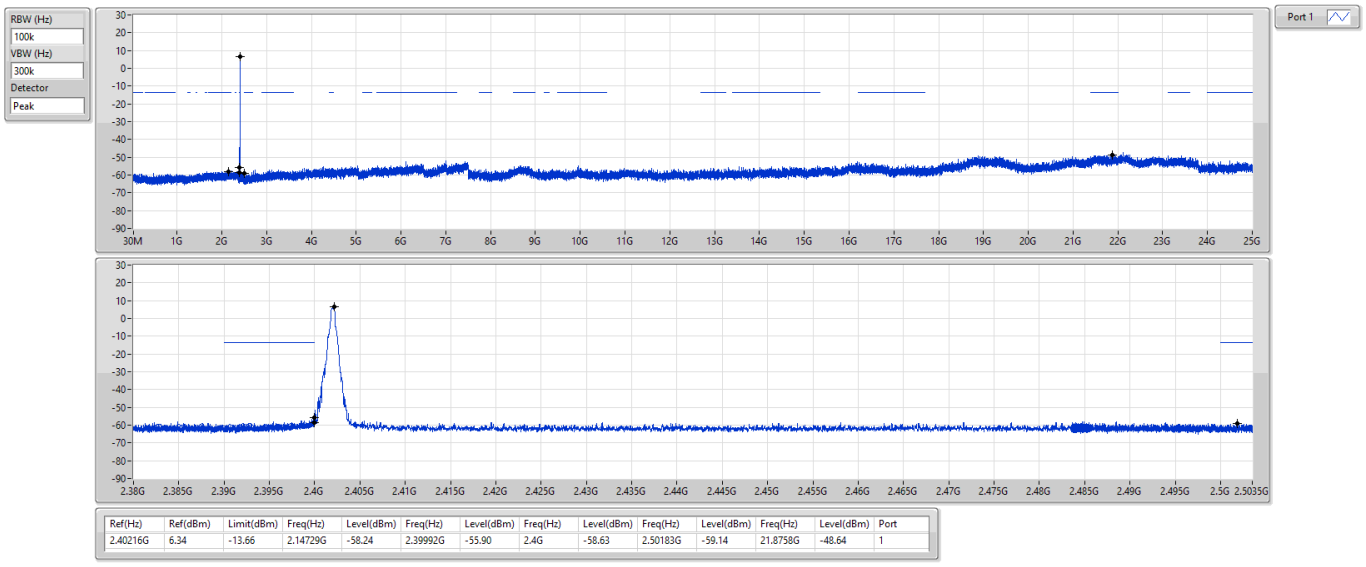


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3202.67	26.62	54.00	-27.38	28.27	-1.65	Average	100	25
2	4804.00	13.03	54.00	-40.97	12.30	0.73	Average	295	343
3	12010.00	20.12	54.00	-33.88	11.92	8.20	Average	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: When average value is calculated not measured, no SA reading and factor value are listed.

2.4-2.4835GHz_BT-BR(1Mbps) **CSENdB-FS**

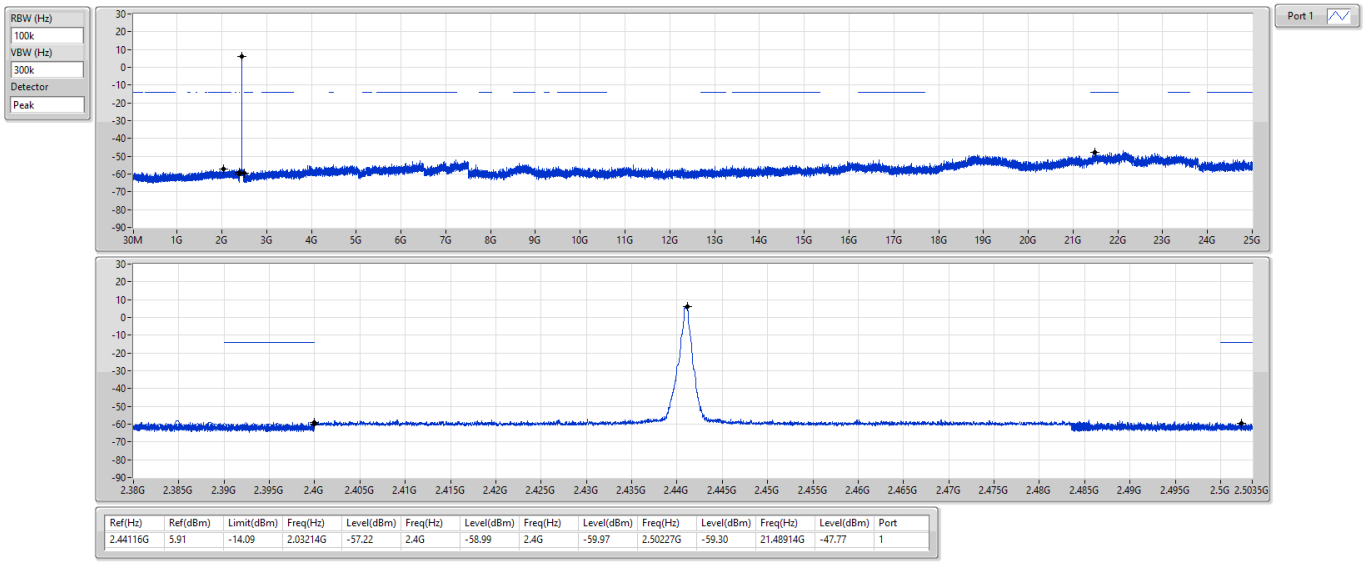
2402MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40216G	6.34	-13.66	2.14729G	-58.24	2.39992G	-55.90	2.4G	-58.63	2.50183G	-59.14	21.8758G	-48.64	1

2.4-2.4835GHz_BT-BR(1Mbps) **CSENdB-FS**

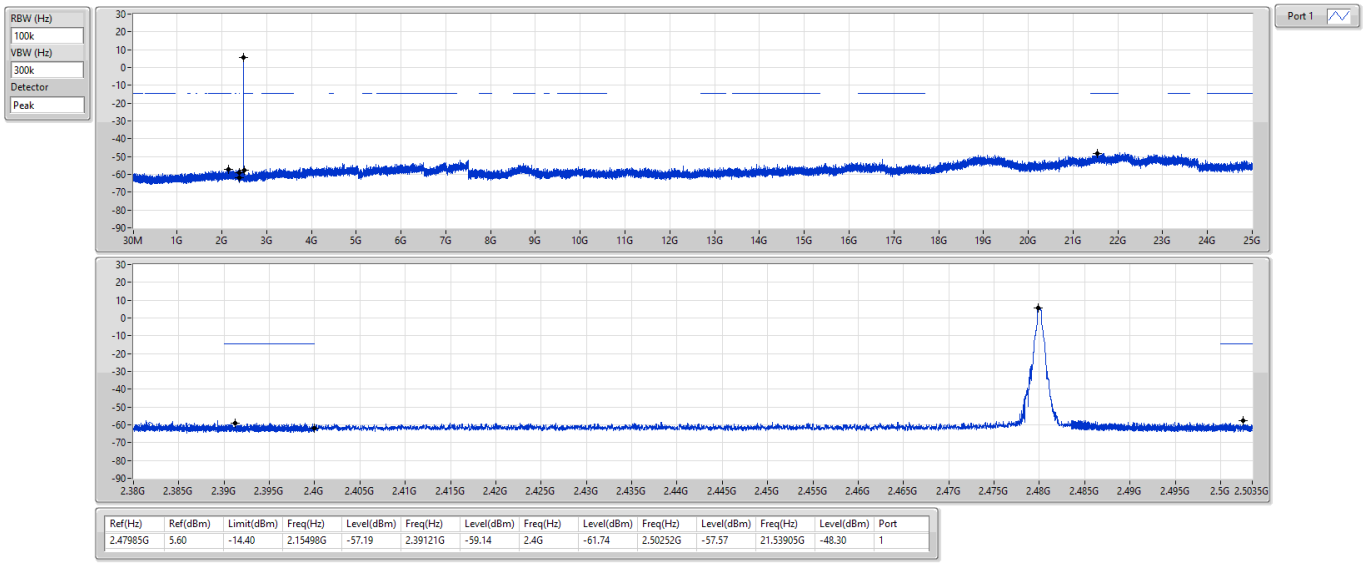
2441MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44116G	5.91	-14.09	2.03214G	-57.22	2.4G	-58.99	2.4G	-59.97	2.50227G	-59.30	21.48914G	-47.77	1

2.4-2.4835GHz_BT-BR(1Mbps) **CSENdB-FS**

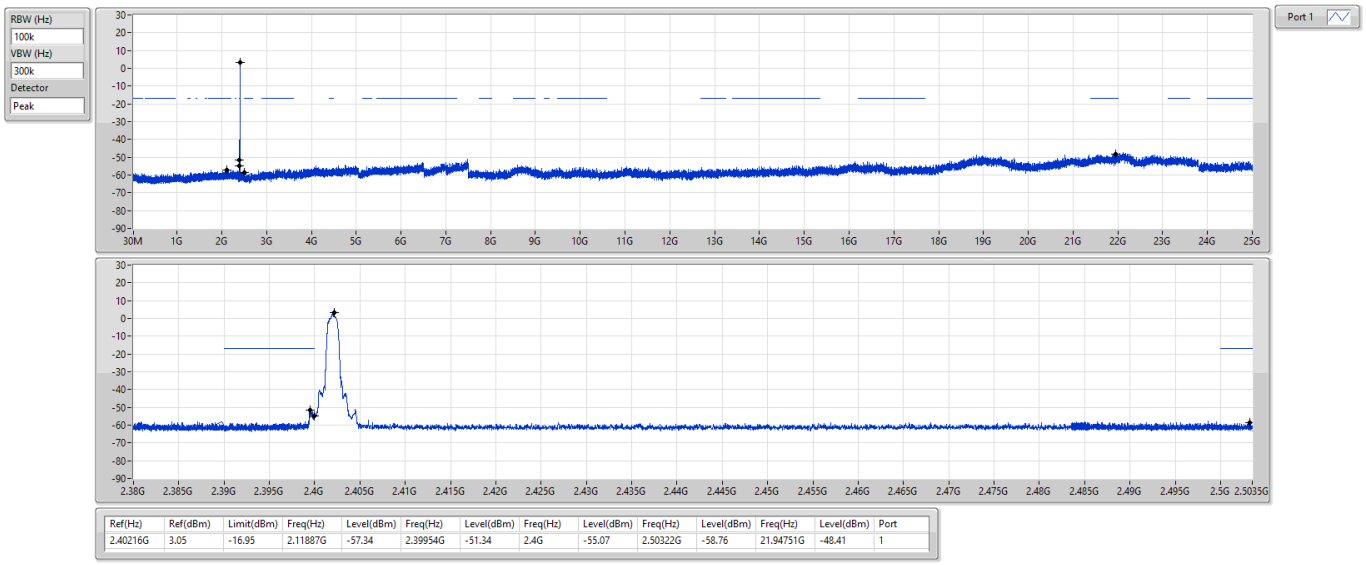
2480MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.47985G	5.60	-14.40	2.15498G	-57.19	2.39121G	-59.14	2.4G	-61.74	2.50252G	-57.57	21.53905G	-48.30	1

2.4-2.4835GHz_BT-EDR(2Mbps) **CSENdB-FS**

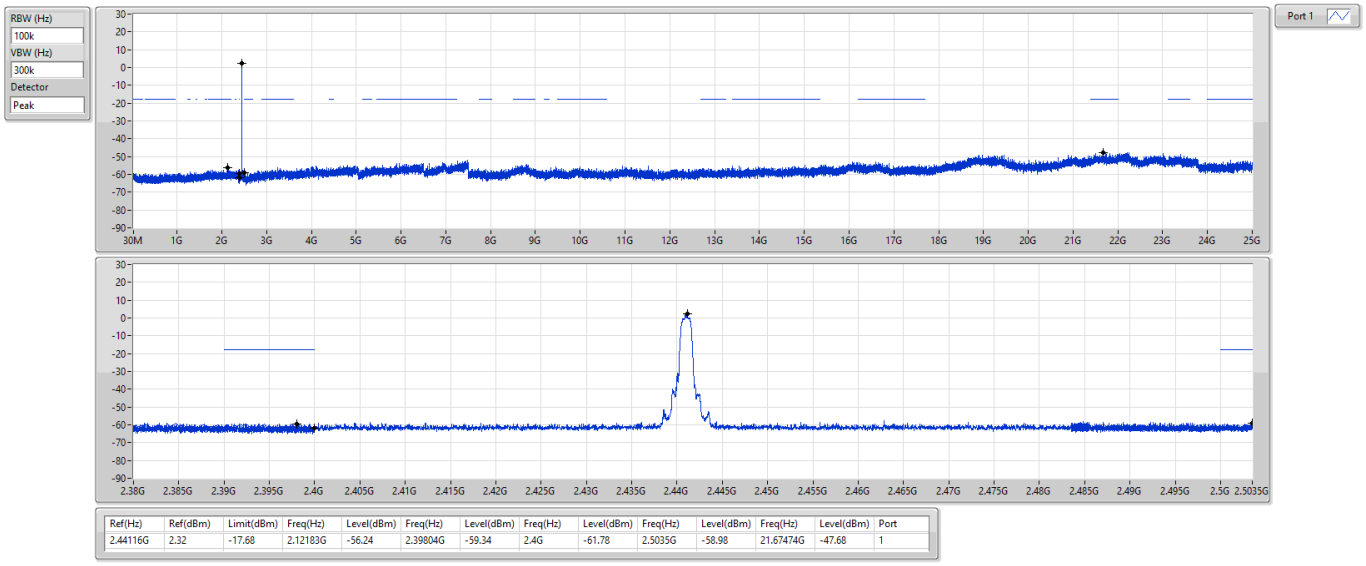
2402MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40216G	3.05	-16.95	2.11887G	-57.34	2.39954G	-51.34	2.4G	-55.07	2.50322G	-58.76	21.94751G	-48.41	1

2.4-2.4835GHz_BT-EDR(2Mbps) **CSENdB-FS**

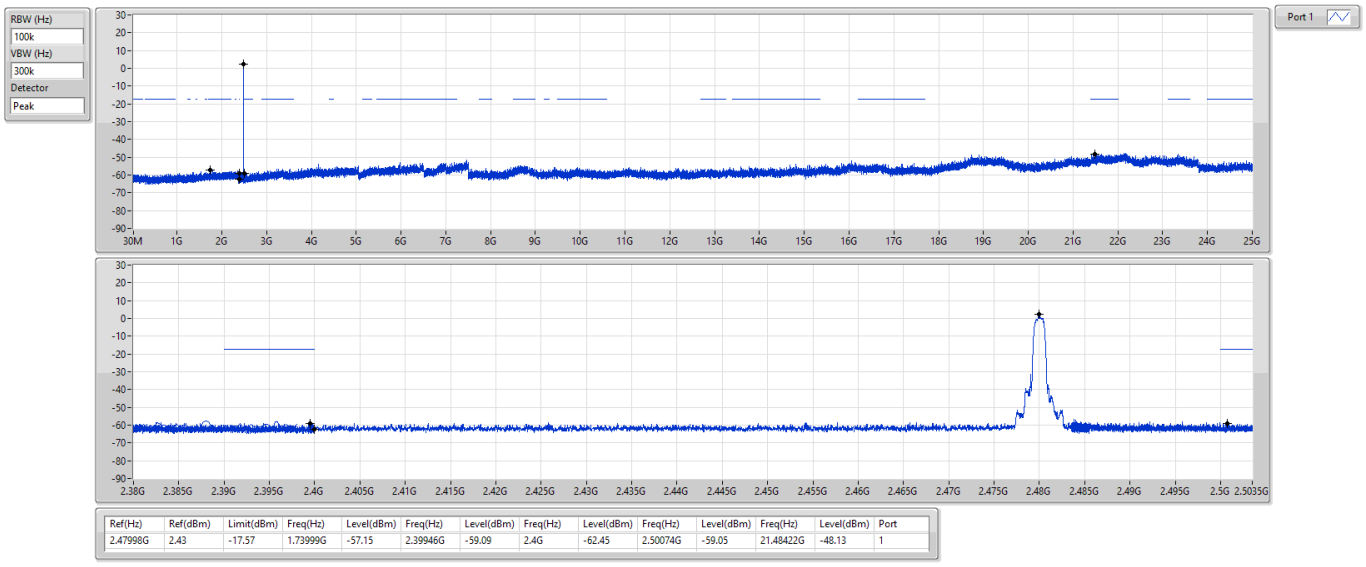
2441MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44116G	2.32	-17.68	2.12183G	-56.24	2.39804G	-59.34	2.4G	-61.78	2.5035G	-58.98	21.67474G	-47.68	1

2.4-2.4835GHz_BT-EDR(2Mbps) **CSENdB-FS**

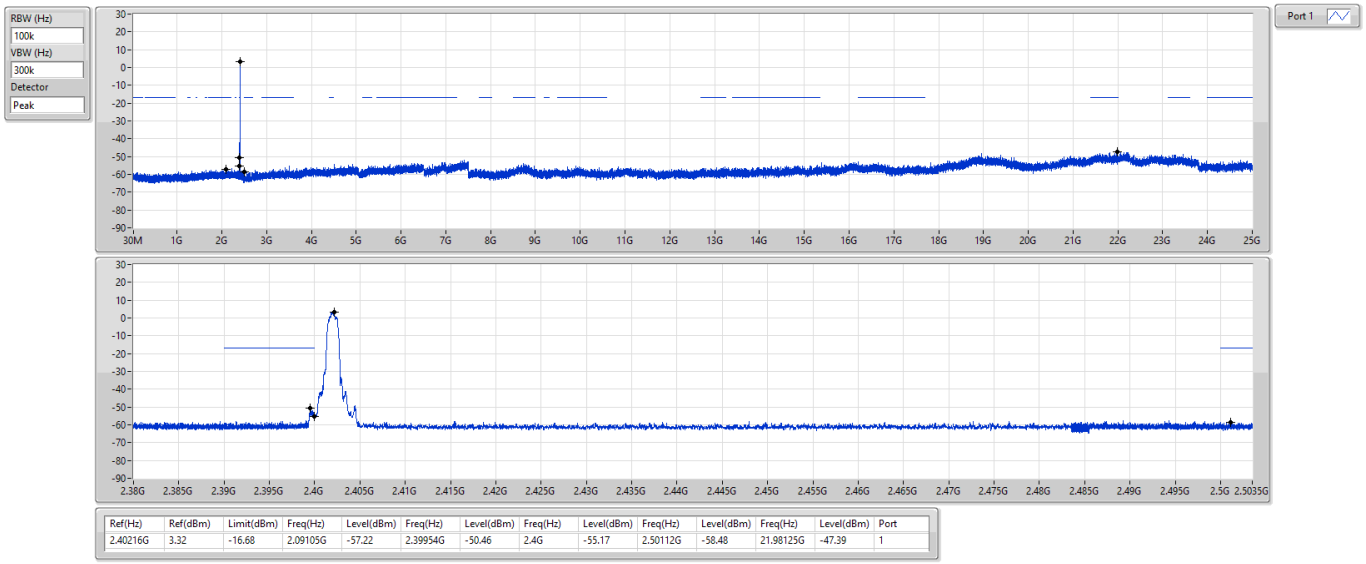
2480MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.47998G	2.43	-17.57	1.73999G	-57.15	2.39946G	-59.09	2.4G	-62.45	2.50074G	-59.05	21.48422G	-48.13	1

2.4-2.4835GHz_BT-EDR(3Mbps) **CSENdB-FS**

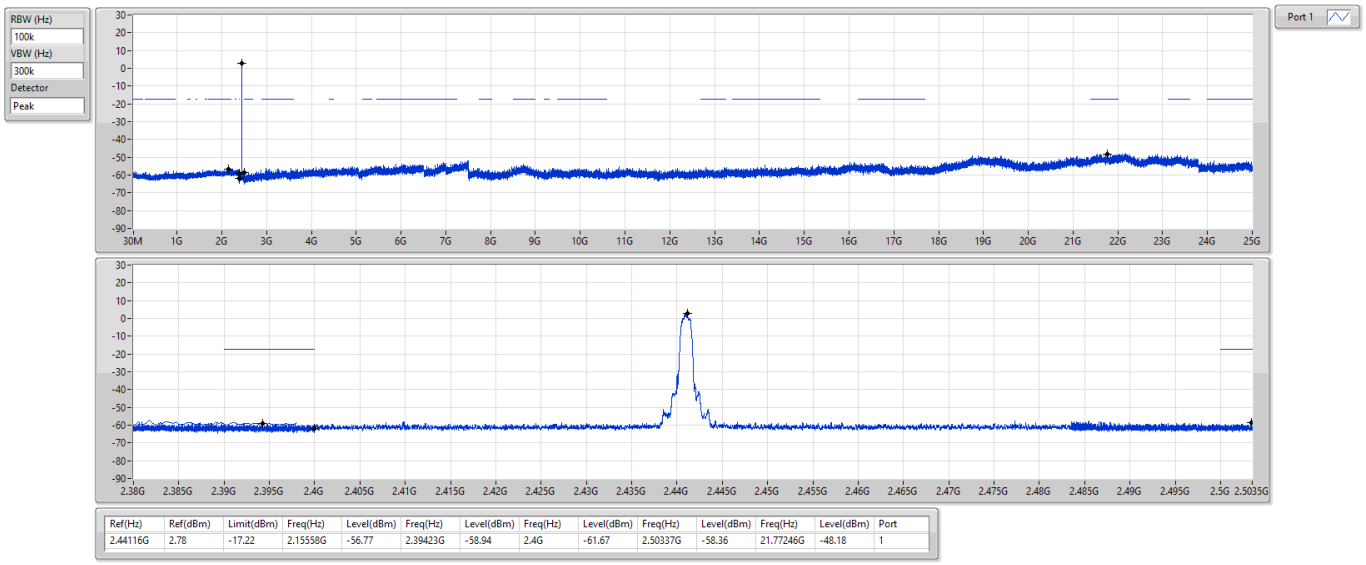
2402MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40216G	3.32	-16.68	2.09105G	-57.22	2.39954G	-50.46	2.4G	-55.17	2.50112G	-58.48	21.98125G	-47.39	1

2.4-2.4835GHz_BT-EDR(3Mbps) **CSENdB-FS**

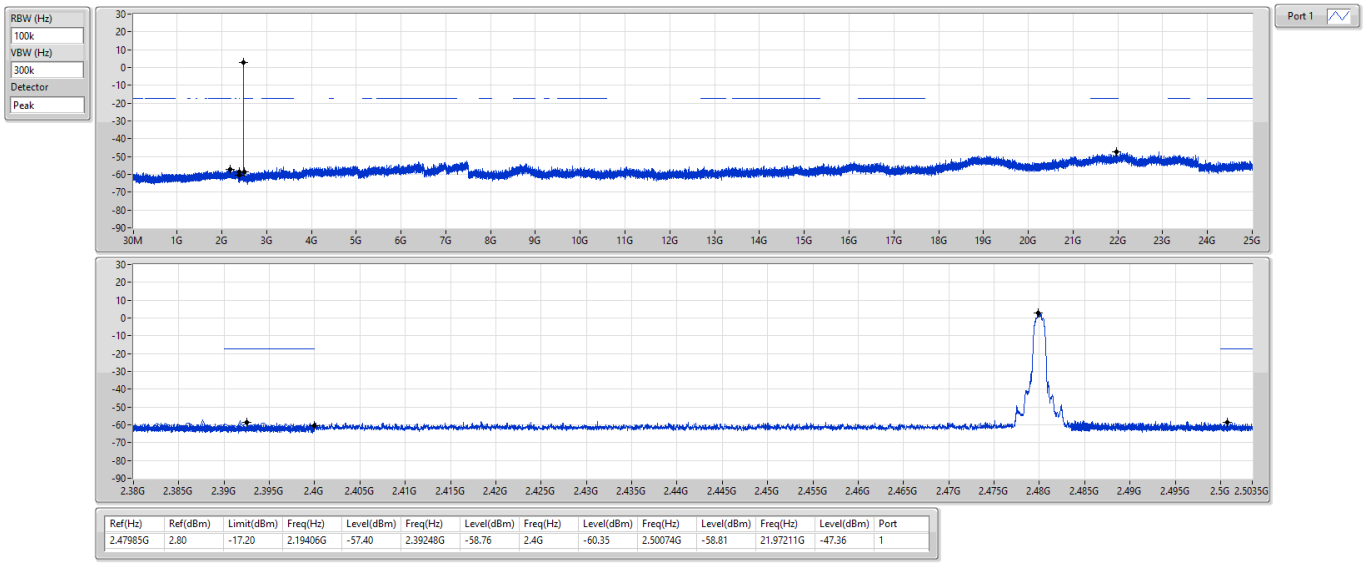
2441MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44116G	2.78	-17.22	2.15558G	-56.77	2.39423G	-58.94	2.4G	-61.67	2.50337G	-58.36	21.77246G	-48.18	1

2.4-2.4835GHz_BT-EDR(3Mbps) **CSENdB-FS**

2480MHz

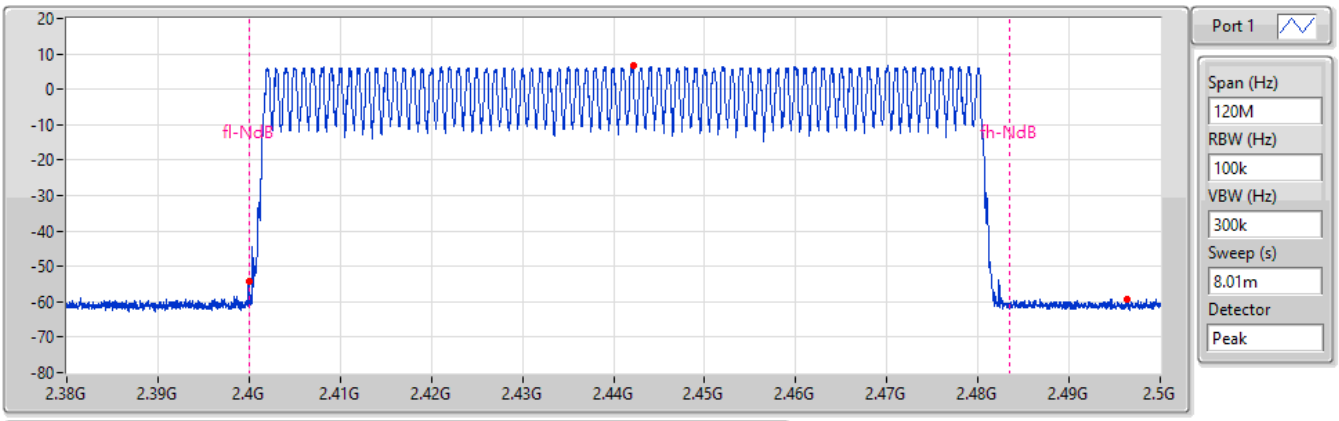


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.47985G	2.80	-17.20	2.19406G	-57.40	2.39248G	-58.76	2.4G	-60.35	2.50074G	-58.81	21.97211G	-47.36	1

2.4-2.4835GHz_BT-BR(1Mbps)

2402MHz

Hopping Ch Bandedge (Non-restricted Band)

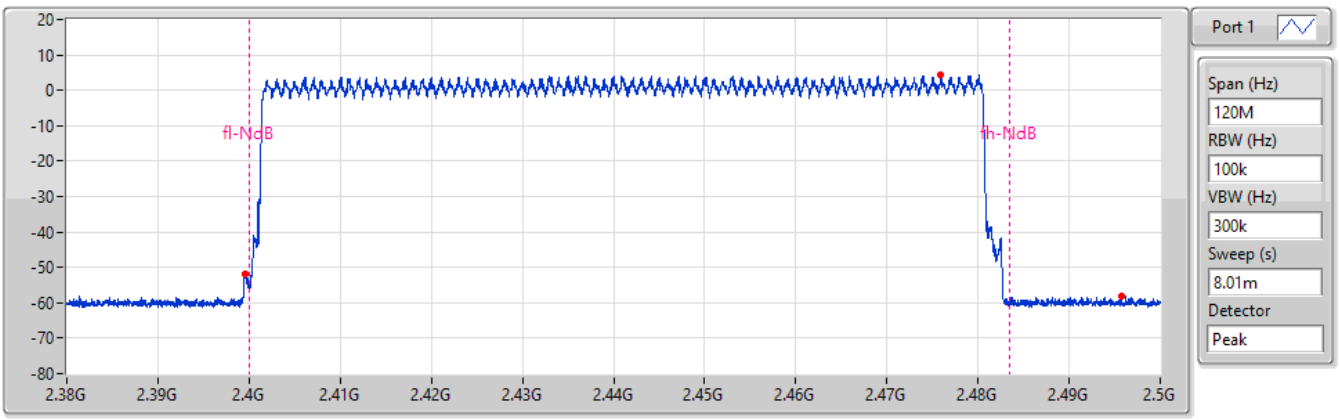


Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-13.23	2.44216G	6.77	2.399965G	-54.35	2.49631G	-59.2

2.4-2.4835GHz_BT-EDR(2Mbps)

2402MHz

Hopping Ch Bandedge (Non-restricted Band)

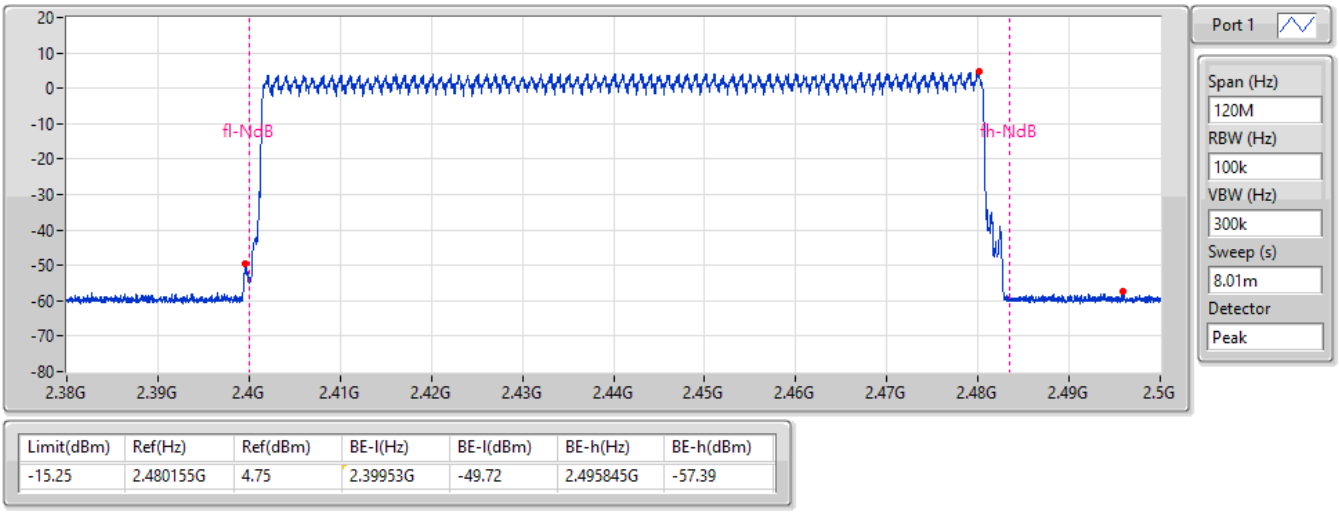


Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-15.52	2.47585G	4.48	2.399605G	-51.78	2.495755G	-58.31

2.4-2.4835GHz_BT-EDR(3Mbps)

2402MHz

Hopping Ch Bandedge (Non-restricted Band)



Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-15.25	2.480155G	4.75	2.39953G	-49.72	2.495845G	-57.39

Test Configuration 1: part no. 453-00391

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	7.03	0.00505
BT-EDR(2Mbps)	6.32	0.00429
BT-EDR(3Mbps)	6.71	0.00469

Result

Mode	Result	Antenna Gain (dBi)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
BT-BR(1Mbps)	-	-	-	-	-	-
2402MHz	Pass	3.20	7.03	21.00	10.23	27.00
2441MHz	Pass	3.20	6.23	21.00	9.43	27.00
2480MHz	Pass	3.20	6.37	21.00	9.57	27.00
BT-EDR(2Mbps)	-	-	-	-	-	-
2402MHz	Pass	3.20	6.32	21.00	9.52	27.00
2441MHz	Pass	3.20	6.24	21.00	9.44	27.00
2480MHz	Pass	3.20	6.04	21.00	9.24	27.00
BT-EDR(3Mbps)	-	-	-	-	-	-
2402MHz	Pass	3.20	6.71	21.00	9.91	27.00
2441MHz	Pass	3.20	6.67	21.00	9.87	27.00
2480MHz	Pass	3.20	6.42	21.00	9.62	27.00

DG = Directional Gain; Port X = Port X output power

Test Configuration 1: part no. 453-00391

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	6.70	0.00468
BT-EDR(2Mbps)	3.62	0.00230
BT-EDR(3Mbps)	3.63	0.00231

Result

Mode	Result	Antenna Gain (dBi)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
BT-BR(1Mbps)	-	-	-	-	-	-
2402MHz	Pass	3.20	6.70	-	9.90	-
2441MHz	Pass	3.20	5.99	-	9.19	-
2480MHz	Pass	3.20	6.05	-	9.25	-
BT-EDR(2Mbps)	-	-	-	-	-	-
2402MHz	Pass	3.20	3.62	-	6.82	-
2441MHz	Pass	3.20	3.53	-	6.73	-
2480MHz	Pass	3.20	3.37	-	6.57	-
BT-EDR(3Mbps)	-	-	-	-	-	-
2402MHz	Pass	3.20	3.63	-	6.83	-
2441MHz	Pass	3.20	3.55	-	6.75	-
2480MHz	Pass	3.20	3.38	-	6.58	-

Note: Average power is for reference only

Test Configuration 2: part no. 453-00392

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	6.36	0.00433
BT-EDR(2Mbps)	5.92	0.00391
BT-EDR(3Mbps)	6.19	0.00416

Result

Mode	Result	Antenna Gain (dBi)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
BT-BR(1Mbps)	-	-	-	-	-	-
2402MHz	Pass	2.32	6.21	21.00	8.53	27.00
2441MHz	Pass	2.32	5.98	21.00	8.30	27.00
2480MHz	Pass	2.32	6.36	21.00	8.68	27.00
BT-EDR(2Mbps)	-	-	-	-	-	-
2402MHz	Pass	2.32	5.48	21.00	7.80	27.00
2441MHz	Pass	2.32	5.54	21.00	7.86	27.00
2480MHz	Pass	2.32	5.92	21.00	8.24	27.00
BT-EDR(3Mbps)	-	-	-	-	-	-
2402MHz	Pass	2.32	5.76	21.00	8.08	27.00
2441MHz	Pass	2.32	5.83	21.00	8.15	27.00
2480MHz	Pass	2.32	6.19	21.00	8.51	27.00

DG = Directional Gain; Port X = Port X output power

Test Configuration 2: part no. 453-00392

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	6.02	0.00400
BT-EDR(2Mbps)	3.28	0.00213
BT-EDR(3Mbps)	3.29	0.00213

Result

Mode	Result	Antenna Gain (dBi)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
BT-BR(1Mbps)	-	-	-	-	-	-
2402MHz	Pass	2.32	5.82	-	8.14	-
2441MHz	Pass	2.32	5.53	-	7.85	-
2480MHz	Pass	2.32	6.02	-	8.34	-
BT-EDR(2Mbps)	-	-	-	-	-	-
2402MHz	Pass	2.32	2.82	-	5.14	-
2441MHz	Pass	2.32	2.87	-	5.19	-
2480MHz	Pass	2.32	3.28	-	5.60	-
BT-EDR(3Mbps)	-	-	-	-	-	-
2402MHz	Pass	2.32	2.83	-	5.15	-
2441MHz	Pass	2.32	2.88	-	5.20	-
2480MHz	Pass	2.32	3.29	-	5.61	-

Note: Average power is for reference only

Summary

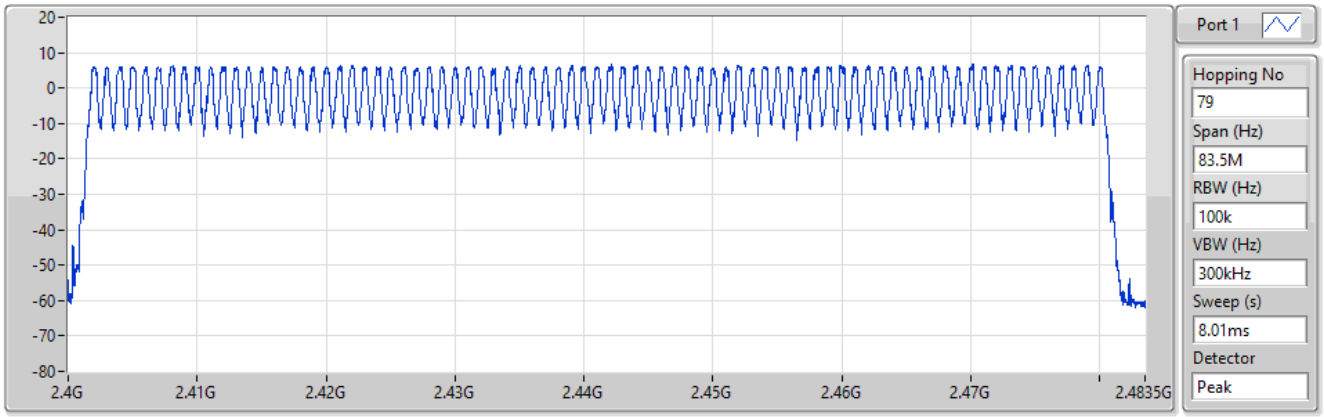
Mode 2.4-2.4835GHz	Max-Hop No -
BT-BR(1Mbps)	79
BT-EDR(2Mbps)	79
BT-EDR(3Mbps)	79

Result

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

2.4-2.4835GHz_BT-BR(1Mbps) **Hopping-FS**

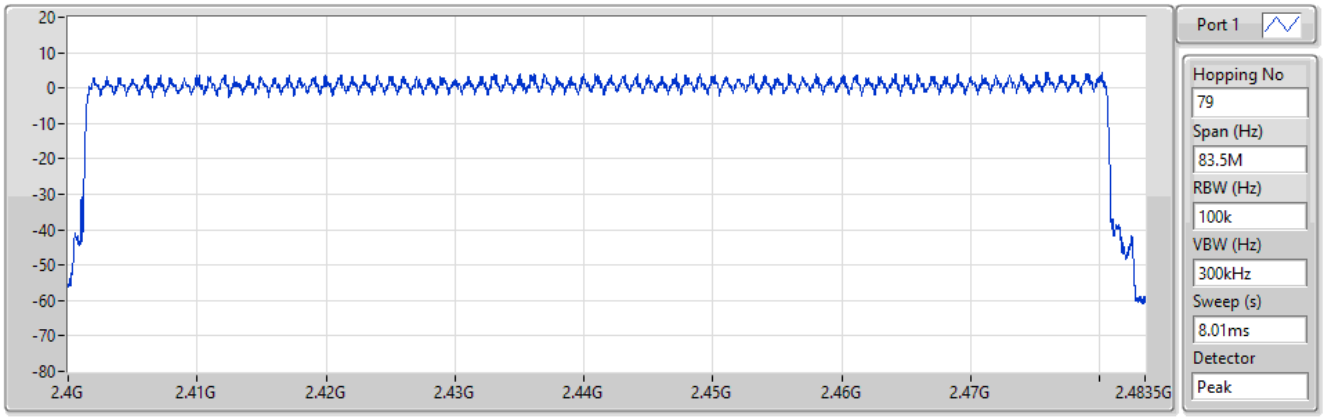
2402MHz



Hopping No	Limit
79	15

2.4-2.4835GHz_BT-EDR(2Mbps) **Hopping-FS**

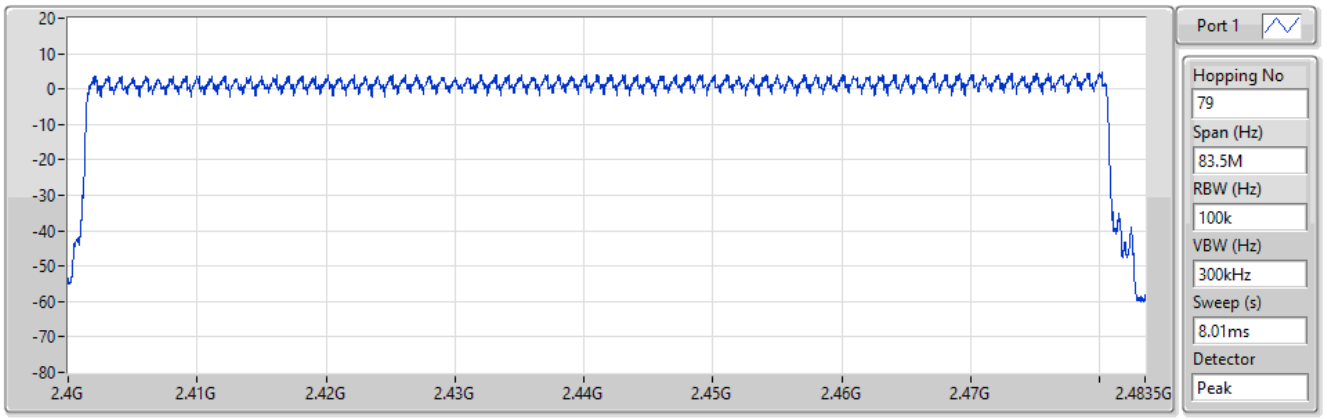
2402MHz



Hopping No	Limit
79	15

2.4-2.4835GHz_BT-EDR(3Mbps) **Hopping-FS**

2402MHz



Hopping No	Limit
79	15

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-BR(1Mbps)	921.25k	857.44k	857KF1D	918.5k	856.666k
BT-EDR(2Mbps)	1.331M	1.203M	1M20G1D	1.323M	1.199M
BT-EDR(3Mbps)	1.309M	1.196M	1M20G1D	1.304M	1.192M

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

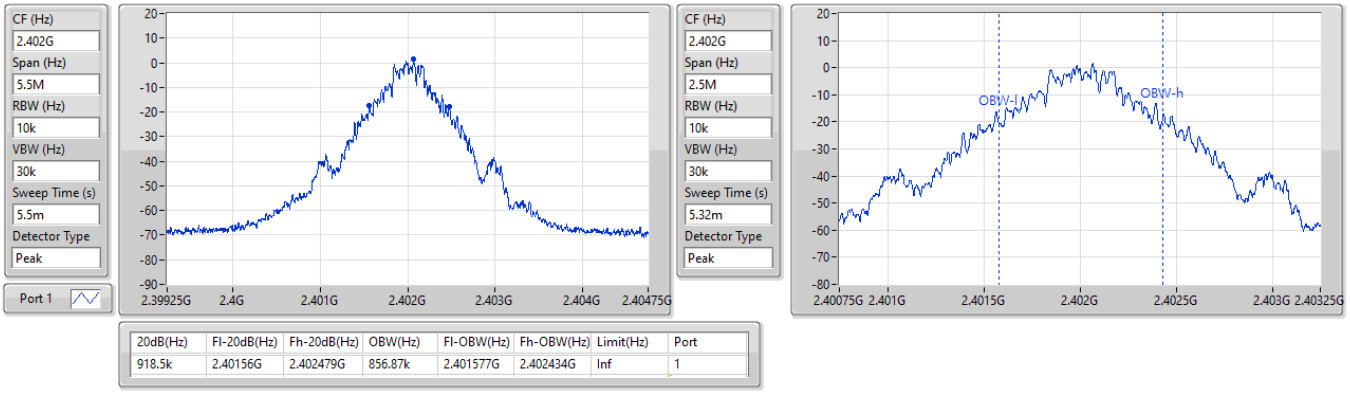
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	918.5k	856.87k
2441MHz	Pass	Inf	918.5k	856.666k
2480MHz	Pass	Inf	921.25k	857.44k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.323M	1.2M
2441MHz	Pass	Inf	1.326M	1.199M
2480MHz	Pass	Inf	1.331M	1.203M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.309M	1.192M
2441MHz	Pass	Inf	1.306M	1.194M
2480MHz	Pass	Inf	1.304M	1.196M

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

2.4-2.4835GHz_BT-BR(1Mbps) **EBW-FS**

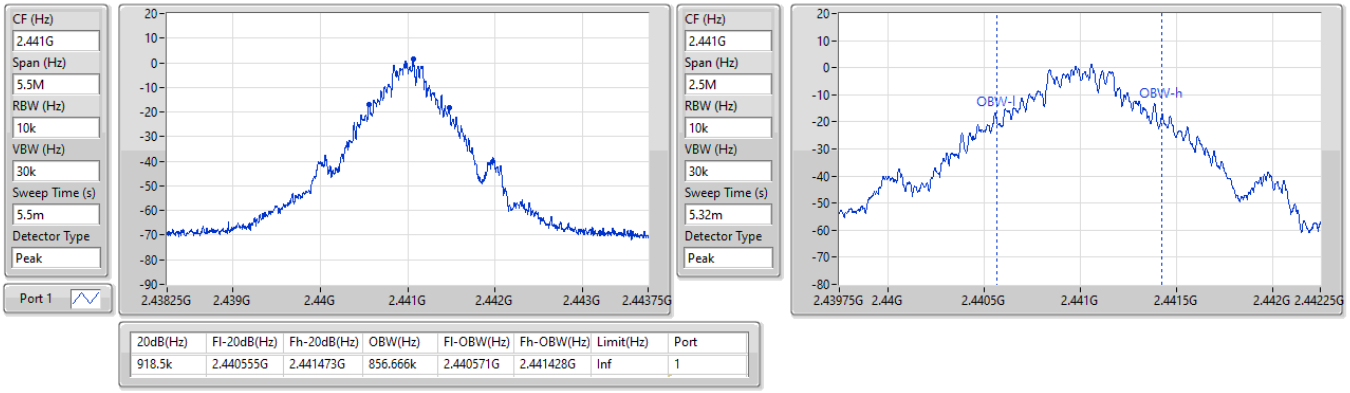
2402MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
918.5k	2.40156G	2.402479G	856.87k	2.401577G	2.402434G	Inf	1

2.4-2.4835GHz_BT-BR(1Mbps) **EBW-FS**

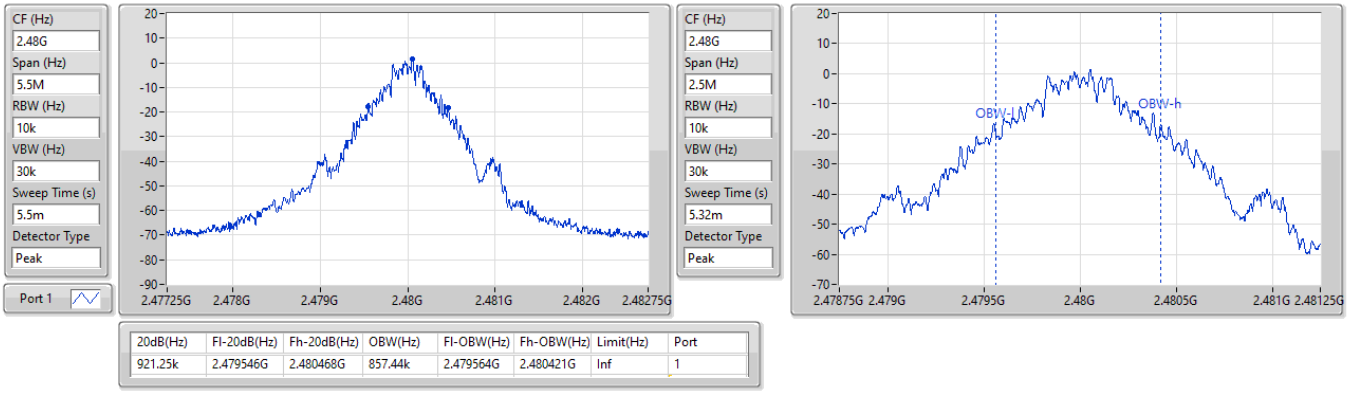
2441MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
918.5k	2.440555G	2.441473G	856.666k	2.440571G	2.441428G	Inf	1

2.4-2.4835GHz_BT-BR(1Mbps) **EBW-FS**

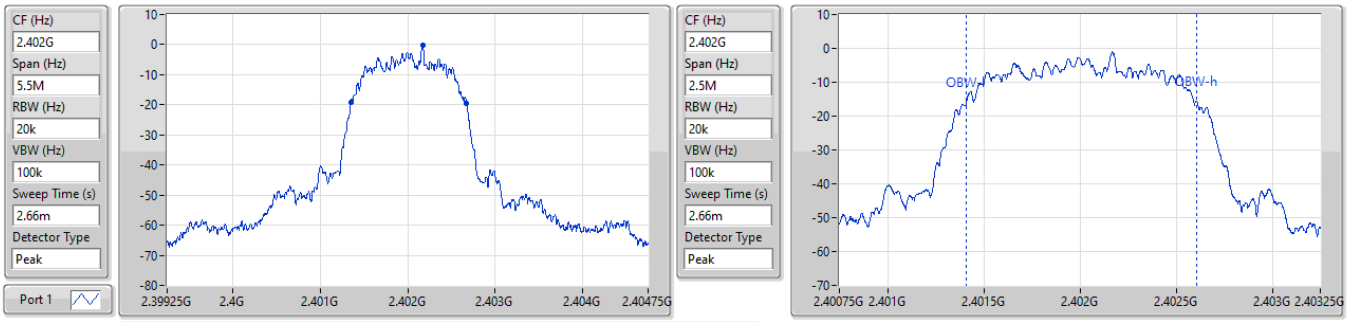
2480MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
921.25k	2.479546G	2.480468G	857.44k	2.479564G	2.480421G	Inf	1

2.4-2.4835GHz_BT-EDR(2Mbps) **EBW-FS**

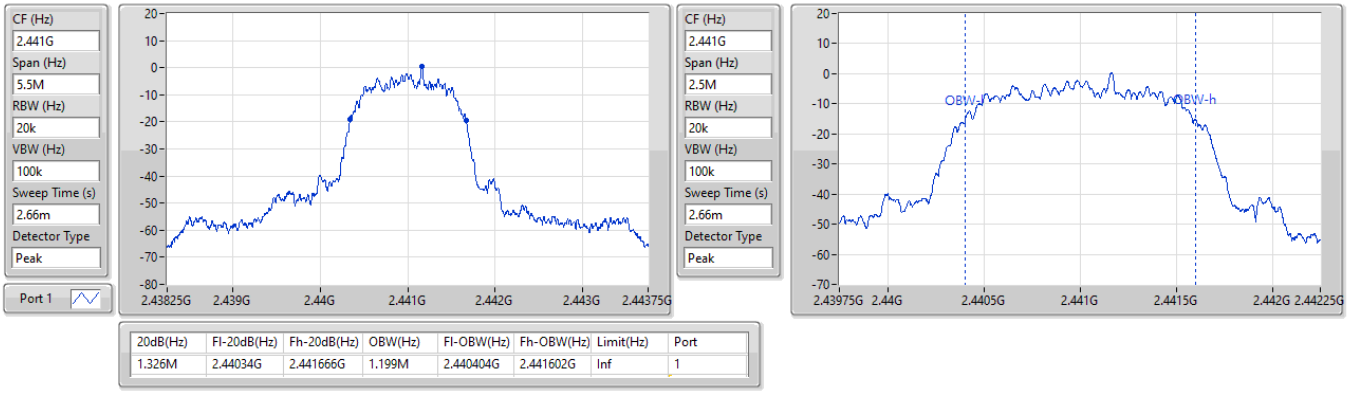
2402MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.323M	2.401348G	2.402671G	1.2M	2.40141G	2.402609G	Inf	1

2.4-2.4835GHz_BT-EDR(2Mbps) **EBW-FS**

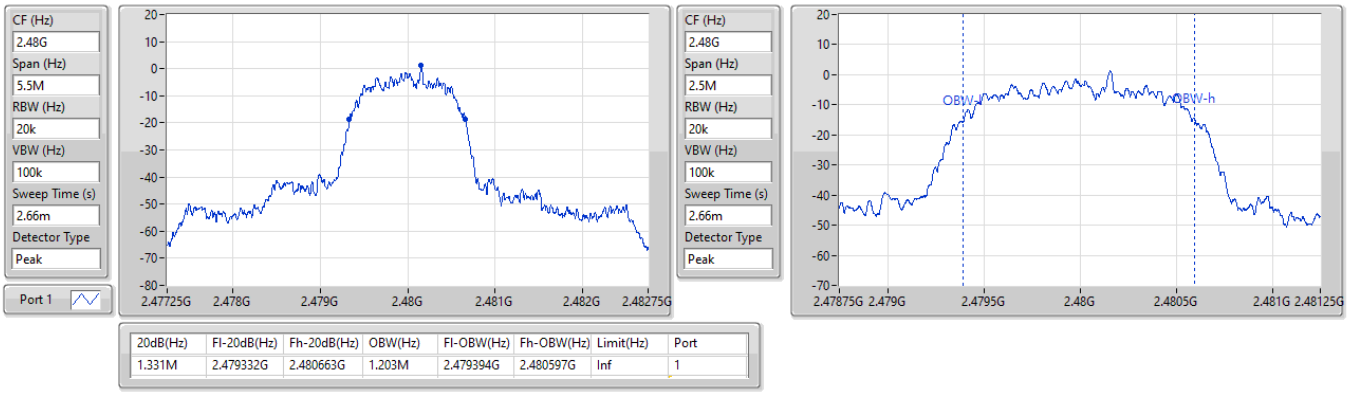
2441MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.326M	2.44034G	2.441666G	1.199M	2.440404G	2.441602G	Inf	1

2.4-2.4835GHz_BT-EDR(2Mbps) **EBW-FS**

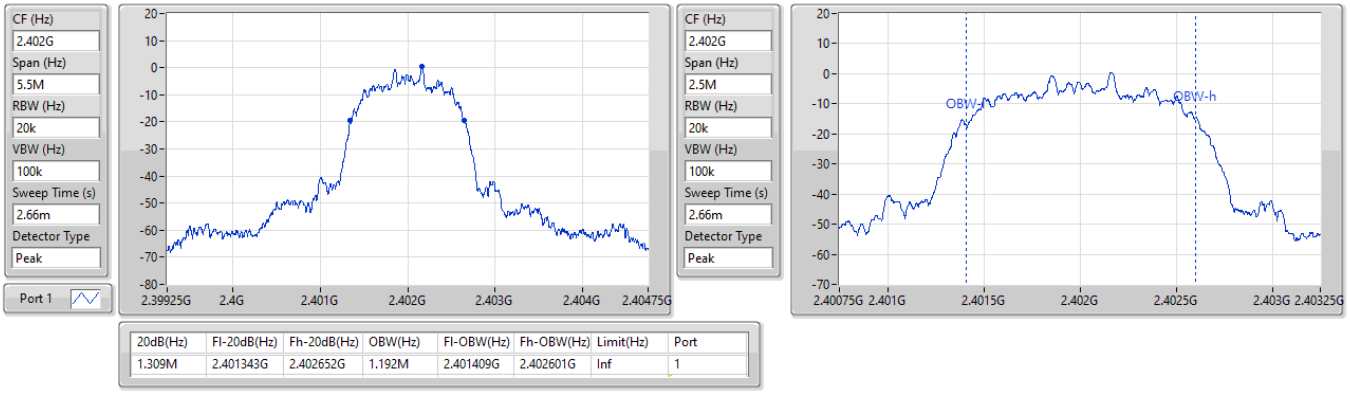
2480MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.331M	2.479332G	2.480663G	1.203M	2.479394G	2.480597G	Inf	1

2.4-2.4835GHz_BT-EDR(3Mbps) **EBW-FS**

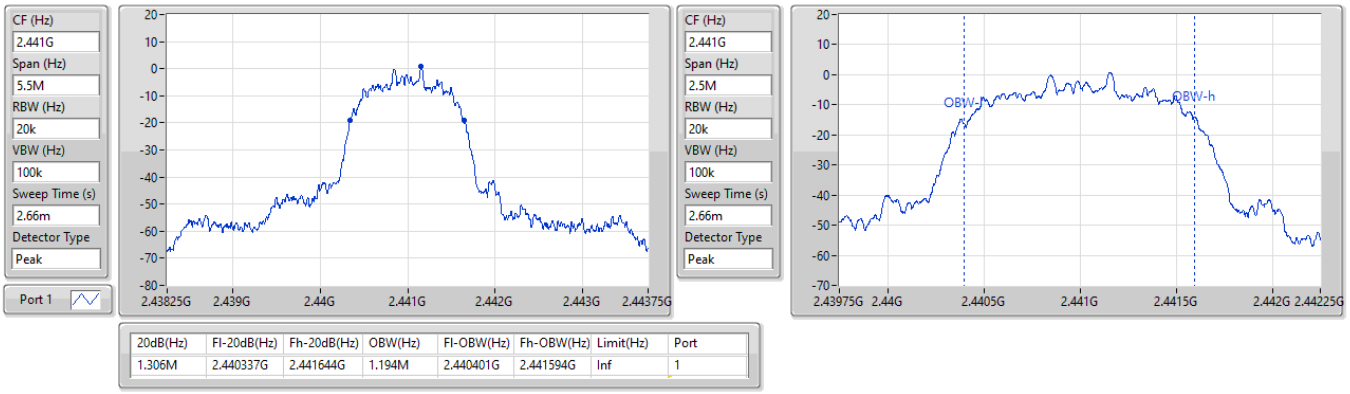
2402MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.309M	2.401343G	2.402652G	1.192M	2.401409G	2.402601G	Inf	1

2.4-2.4835GHz_BT-EDR(3Mbps) **EBW-FS**

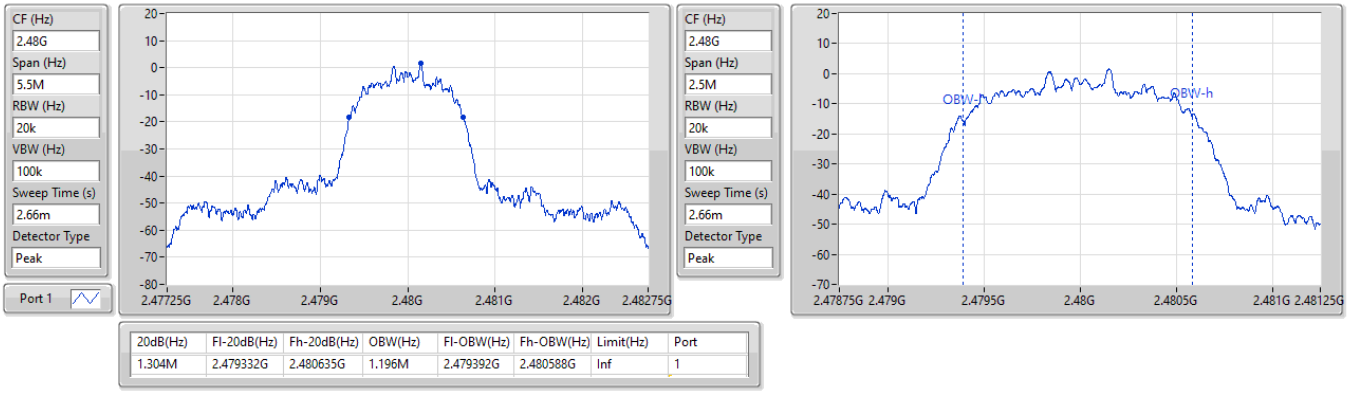
2441MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.306M	2.440337G	2.441644G	1.194M	2.440401G	2.441594G	Inf	1

2.4-2.4835GHz_BT-EDR(3Mbps) **EBW-FS**

2480MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.304M	2.479332G	2.480635G	1.196M	2.479392G	2.480588G	Inf	1

Summary

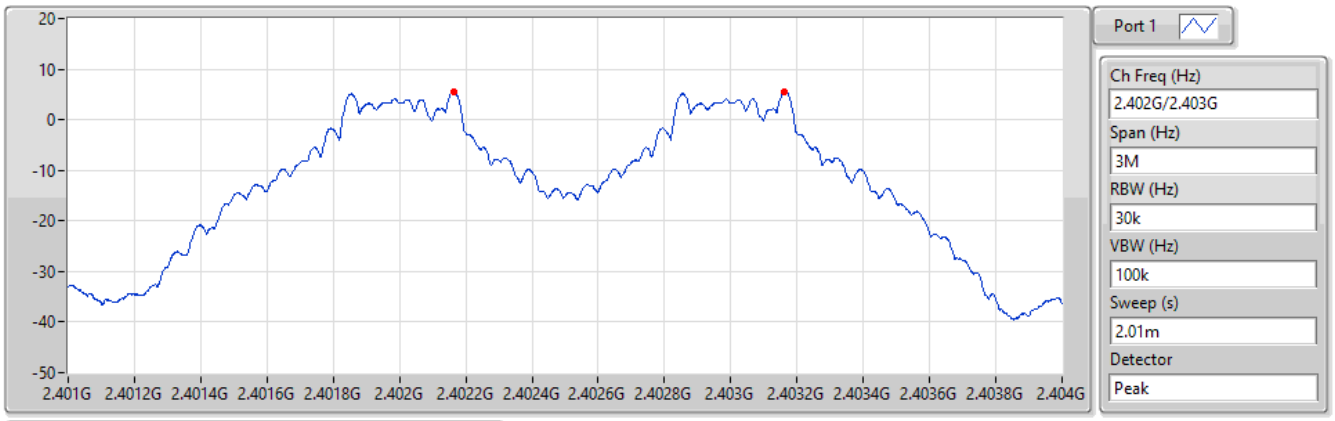
Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.002M	1.0005M
BT-EDR(2Mbps)	1.002M	1.0005M
BT-EDR(3Mbps)	1.002M	1.0005M

Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.402163G	2.403163G	1.0005M	611.721k
2441MHz	Pass	2.441155G	2.442157G	1.002M	611.721k
2480MHz	Pass	2.479149G	2.48015G	1.0005M	613.5525k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.402169G	2.403169G	1.0005M	881.118k
2441MHz	Pass	2.441161G	2.442163G	1.002M	883.116k
2480MHz	Pass	2.479157G	2.480157G	1.0005M	886.446k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402163G	2.403163G	1.0005M	871.794k
2441MHz	Pass	2.441157G	2.442157G	1.0005M	869.796k
2480MHz	Pass	2.479149G	2.480151G	1.002M	868.464k

2.4-2.4835GHz_BT-BR(1Mbps) **Channel Separation-FS**

2.402G/2.403GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402163G	2.403163G	1.0005M	611.721k

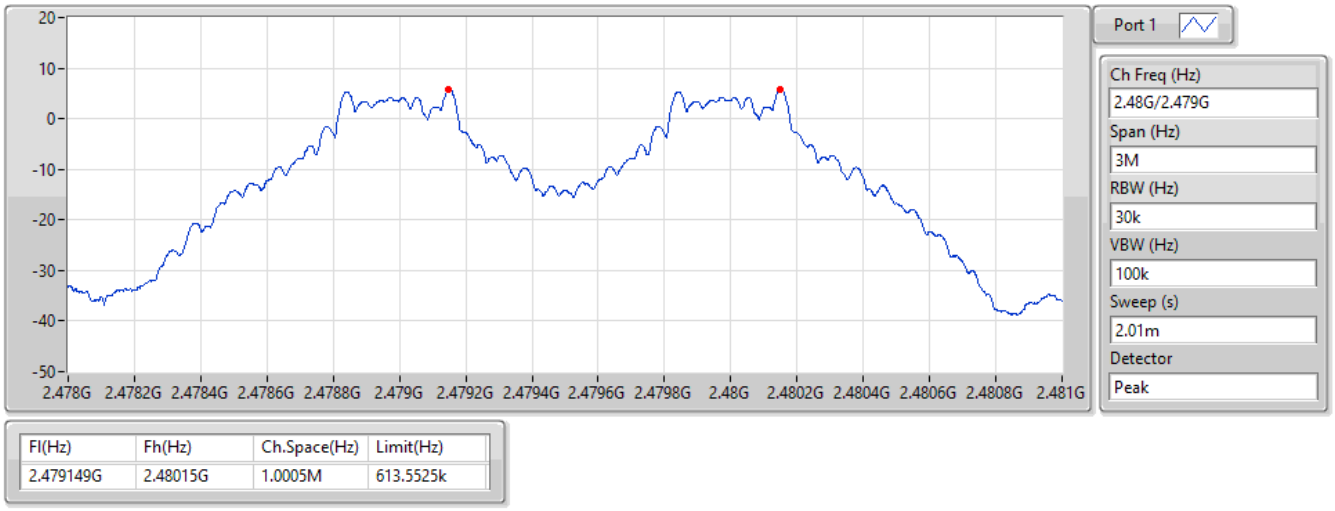
2.4-2.4835GHz_BT-BR(1Mbps) **Channel Separation-FS**

2.441G/2.442GHz

Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.441155G	2.442157G	1.002M	611.721k

2.4-2.4835GHz_BT-BR(1Mbps) **Channel Separation-FS**

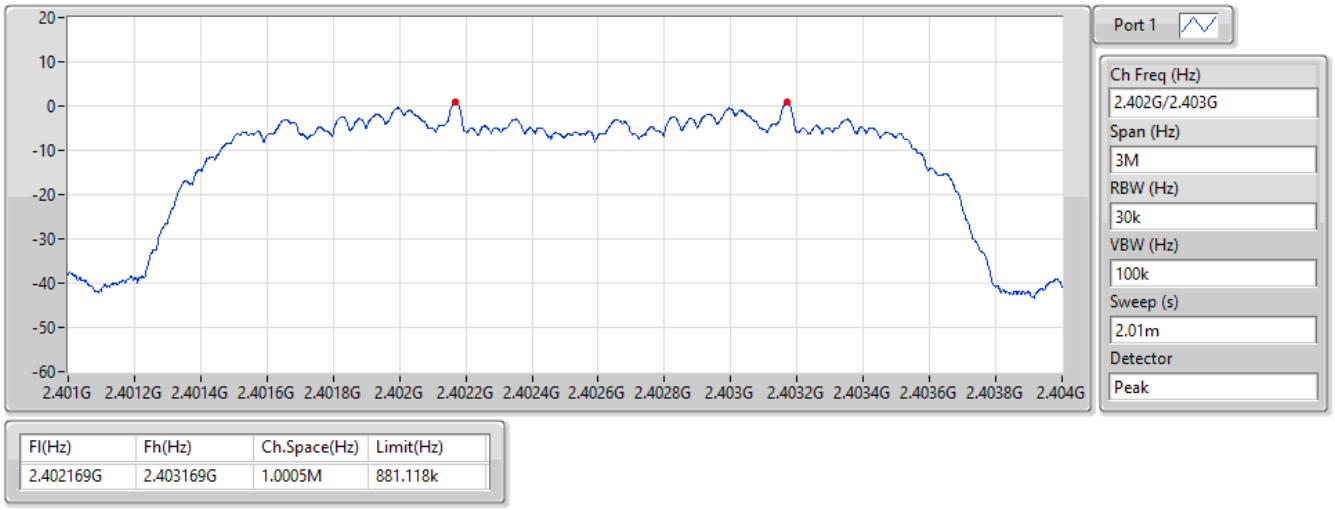
2.48G/2.479GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479149G	2.48015G	1.0005M	613.5525k

2.4-2.4835GHz_BT-EDR(2Mbps) **Channel Separation-FS**

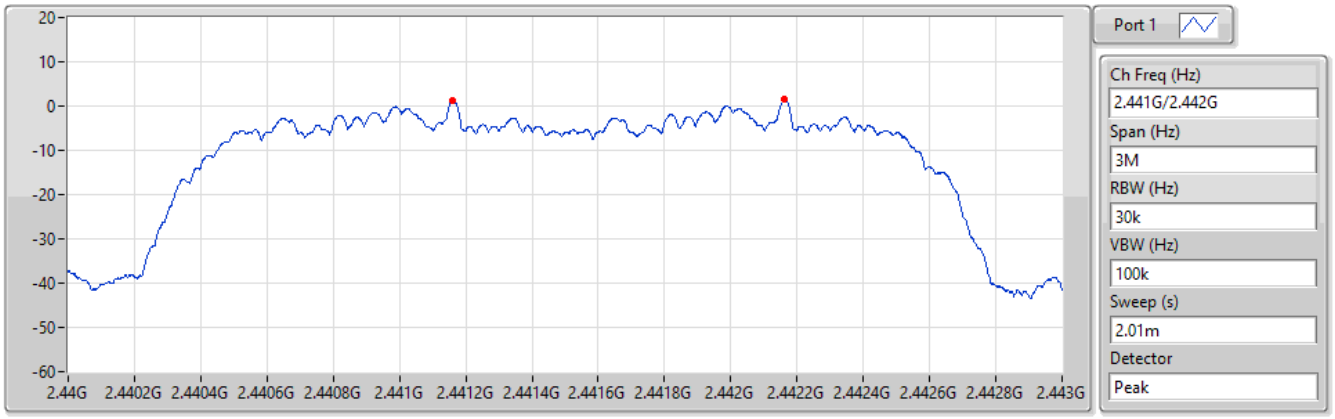
2.402G/2.403GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402169G	2.403169G	1.0005M	881.118k

2.4-2.4835GHz_BT-EDR(2Mbps) **Channel Separation-FS**

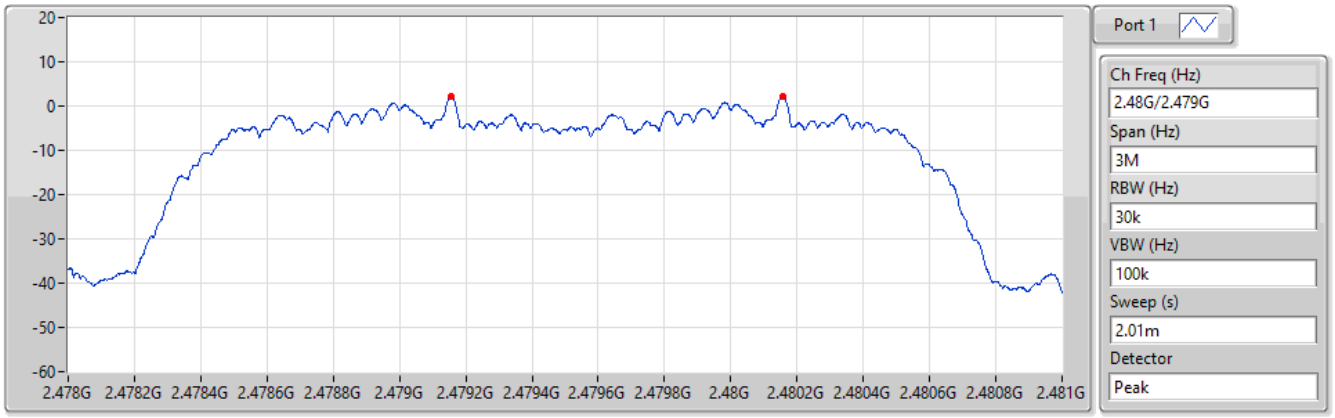
2.441G/2.442GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.441161G	2.442163G	1.002M	883.116k

2.4-2.4835GHz_BT-EDR(2Mbps) **Channel Separation-FS**

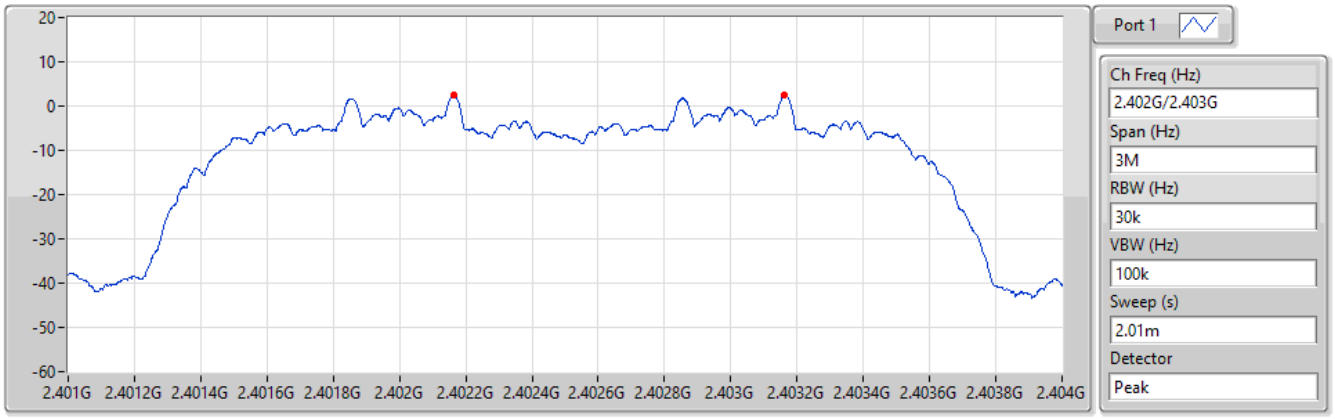
2.48G/2.479GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479157G	2.480157G	1.0005M	886.446k

2.4-2.4835GHz_BT-EDR(3Mbps) **Channel Separation-FS**

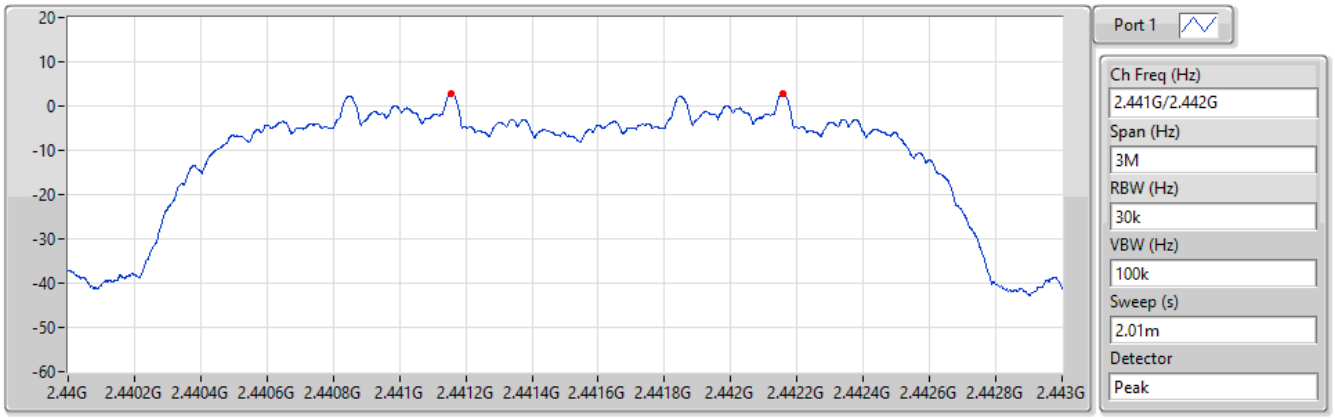
2.402G/2.403GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402163G	2.403163G	1.0005M	871.794k

2.4-2.4835GHz_BT-EDR(3Mbps) **Channel Separation-FS**

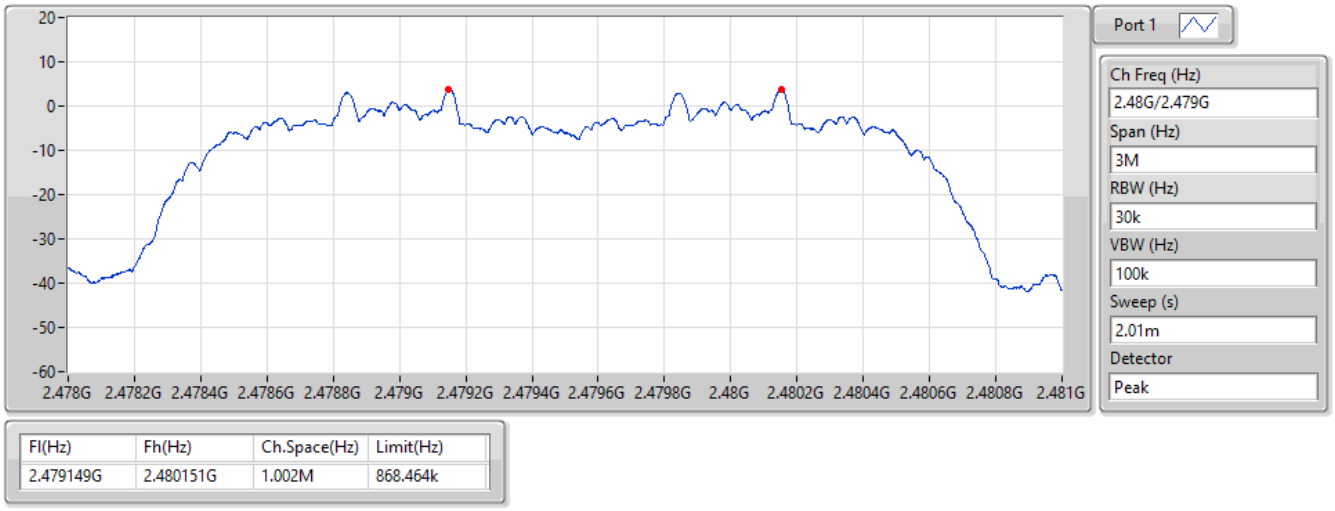
2.441G/2.442GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.441157G	2.442157G	1.0005M	869.796k

2.4-2.4835GHz_BT-EDR(3Mbps) **Channel Separation-FS**

2.48G/2.479GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479149G	2.480151G	1.002M	868.464k

Summary

2.4-2.4835GHz	**-**
BT-BR-AFH(1Mbps)	288.4m_DH5-AFH
BT-BR-Non AFH(1Mbps)	346.31072m_DH5
BT-EDR-AFH(2Mbps)	288.85m_DH5-AFH
BT-EDR-Non AFH(2Mbps)	310.42102m_DH5
BT-EDR-AFH(3Mbps)	288.8m_DH5-AFH
BT-EDR-Non AFH(3Mbps)	310.31358m_DH5

Result/ Non AFH mode

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (ms)	Number of transmission in a 5 s
BT-BR-Non AFH(1Mbps)	-	-	-	-	-	-
2402MHz_DH5	PASS	31.6	0.34631	0.4	2.88400	19
BT-EDR-Non AFH(2Mbps)	-	-	-	-	-	-
2402MHz_DH5	PASS	31.6	0.31042	0.4	2.88925	17
BT-EDR-Non AFH(3Mbps)	-	-	-	-	-	-
2402MHz_DH5	PASS	31.6	0.31031	0.4	2.88825	17

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

Note 2: DH5 was the worst mode.

Result/ AFH mode

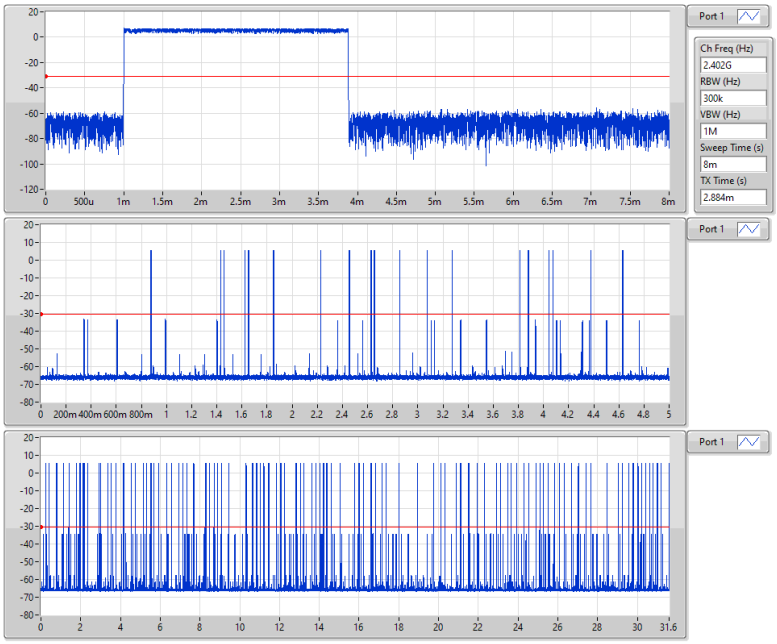
Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (ms)	Number of transmission in a 2 s
BT-BR-AFH(1Mbps)	-	-	-	-	-	-
2402MHz_DH5	PASS	8	0.28840	0.4	2.88400	25
BT-EDR-AFH(2Mbps)	-	-	-	-	-	-
2402MHz_DH5	PASS	8	0.28885	0.4	2.88850	25
BT-EDR-AFH(3Mbps)	-	-	-	-	-	-
2402MHz_DH5	PASS	8	0.28880	0.4	2.88800	25

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

Note 2: DH5 was the worst mode.

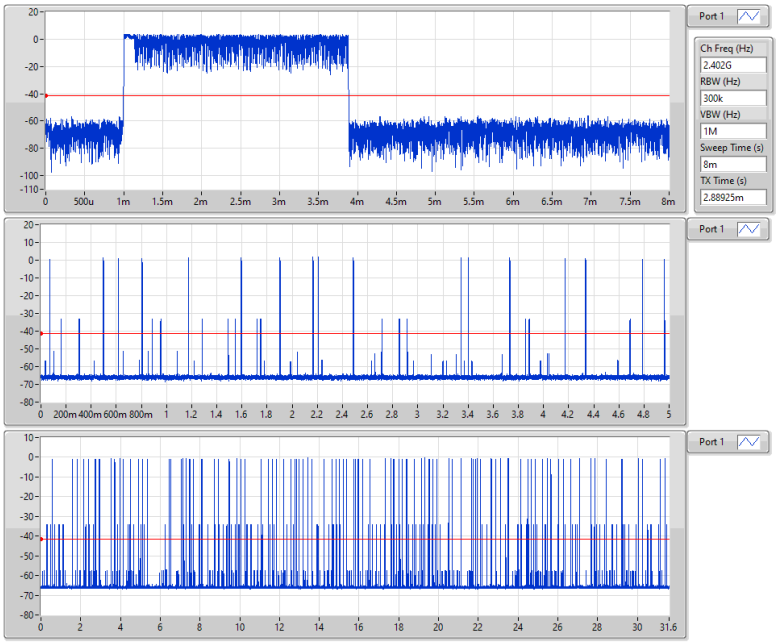
2.4-2.4835GHz_BT-BR-Non AFH(1Mbps) **Dwell-FS**

2402MHz



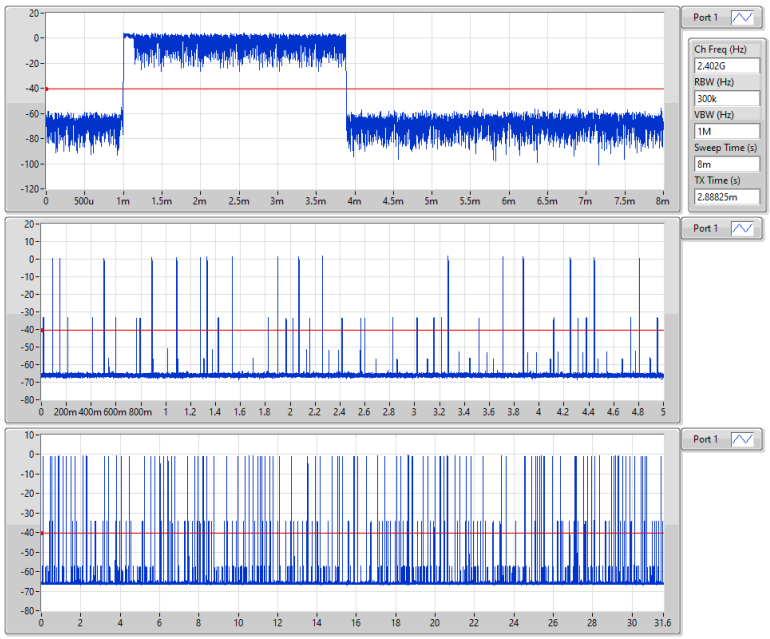
2.4-2.4835GHz_BT-EDR-Non AFH(2Mbps) **Dwell-FS**

2402MHz



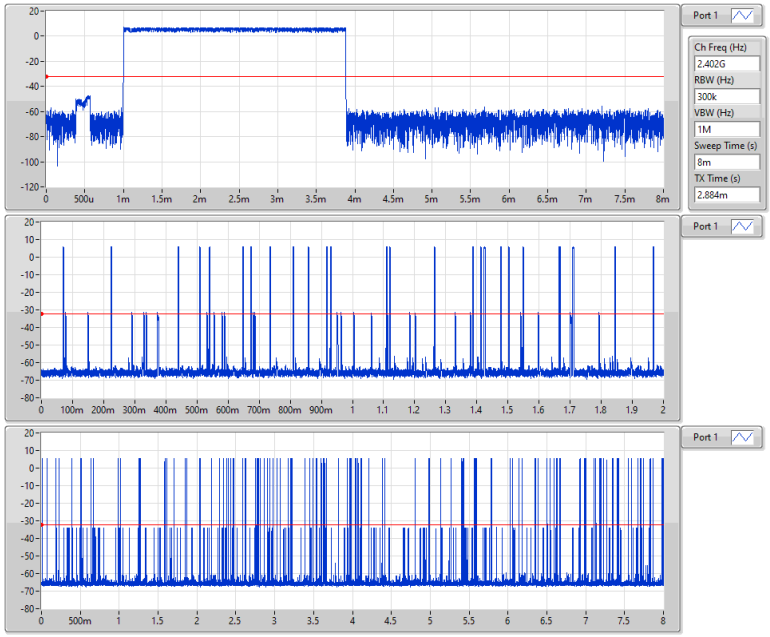
2.4-2.4835GHz_BT-EDR-Non AFH(3Mbps) **Dwell-FS**

2402MHz



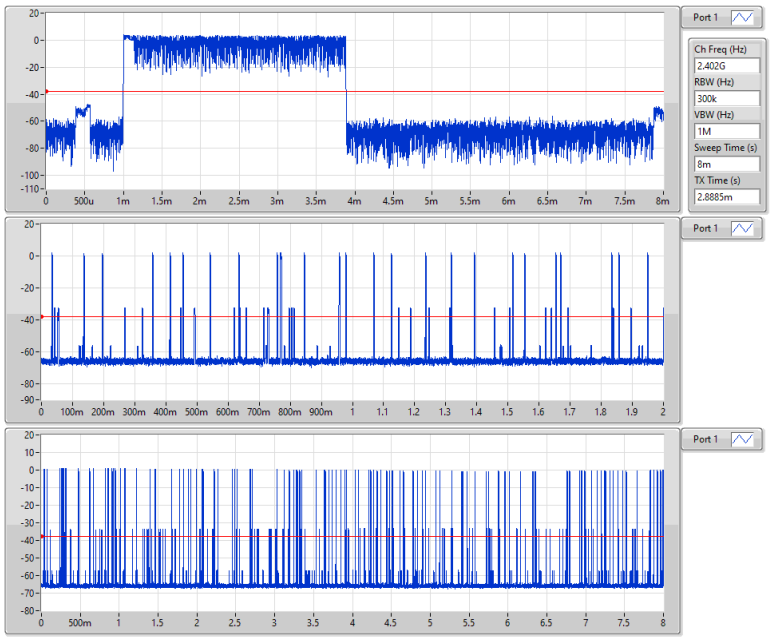
2.4-2.4835GHz_BT-BR-AFH(1Mbps) **Dwell-FS**

2402MHz



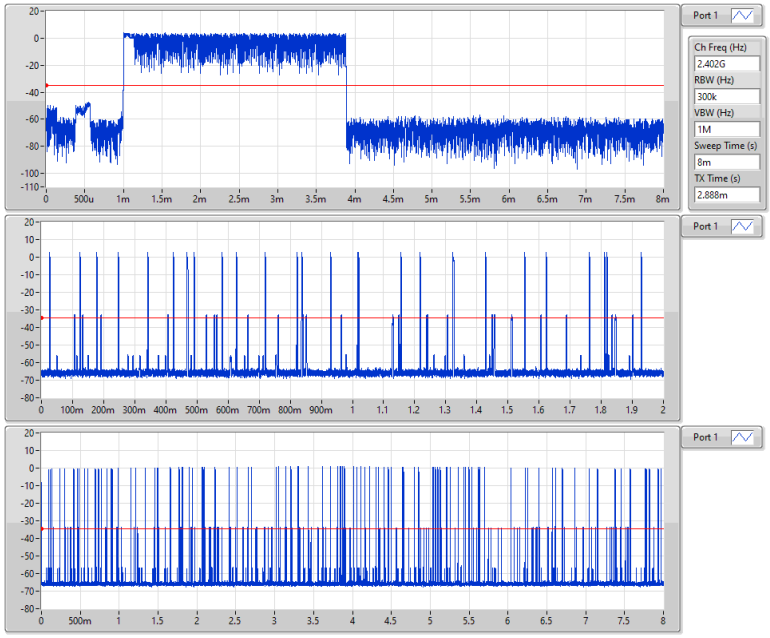
2.4-2.4835GHz_BT-EDR-AFH(2Mbps) **Dwell-FS**

2402MHz



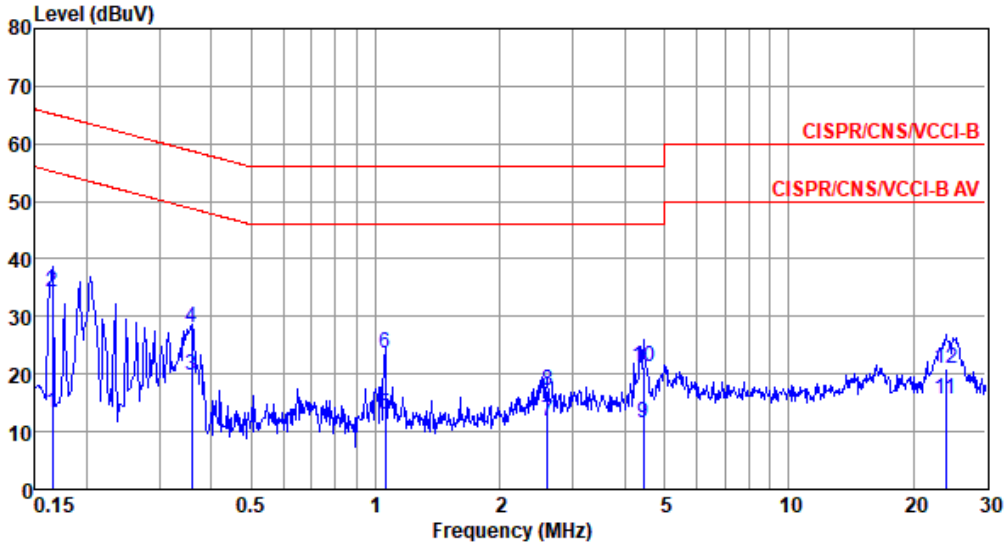
2.4-2.4835GHz_BT-EDR-AFH(3Mbps) **Dwell-FS**

2402MHz



Modulation	GFSK	**Test Freq. (MHz)**	2441
Power Phase	Line		

Test by : Joe Liao Temperature: 22°C Humidity: 64%

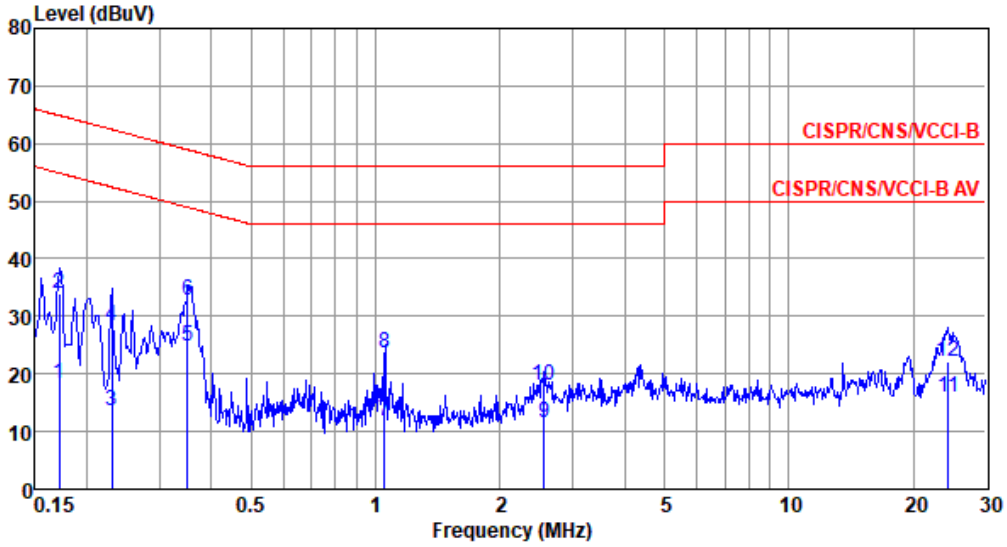


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.165	13.34	55.21	-41.87	3.50	9.65	0.03	0.16	Average
2	0.165	34.22	65.21	-30.99	24.38	9.65	0.03	0.16	QP
3*	0.360	19.80	48.74	-28.94	9.91	9.64	0.04	0.21	Average
4	0.360	28.19	58.74	-30.55	18.30	9.64	0.04	0.21	QP
5	1.054	12.96	46.00	-33.04	2.94	9.65	0.06	0.31	Average
6	1.054	23.54	56.00	-32.46	13.52	9.65	0.06	0.31	QP
7	2.608	11.83	46.00	-34.17	1.60	9.66	0.11	0.46	Average
8	2.608	17.19	56.00	-38.81	6.96	9.66	0.11	0.46	QP
9	4.454	11.57	46.00	-34.43	1.17	9.68	0.16	0.56	Average
10	4.454	21.20	56.00	-34.80	10.80	9.68	0.16	0.56	QP
11	24.015	15.53	50.00	-34.47	4.82	9.67	0.30	0.74	Average
12	24.015	20.96	60.00	-39.04	10.25	9.67	0.30	0.74	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	GFSK	**Test Freq. (MHz)**	2441
Power Phase	Neutral		

Test by : Joe Liao Temperature: 22°C Humidity: 64%



	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.171	18.30	54.90	-36.60	8.37	9.64	0.03	0.26	Average
2	0.171	33.91	64.90	-30.99	23.98	9.64	0.03	0.26	QP
3	0.230	13.53	52.44	-38.91	3.54	9.64	0.04	0.31	Average
4	0.230	28.22	62.44	-34.22	18.23	9.64	0.04	0.31	QP
5*	0.350	24.70	48.96	-24.26	14.69	9.63	0.04	0.34	Average
6	0.350	32.86	58.96	-26.10	22.85	9.63	0.04	0.34	QP
7	1.051	11.91	46.00	-34.09	1.77	9.64	0.06	0.44	Average
8	1.051	23.57	56.00	-32.43	13.43	9.64	0.06	0.44	QP
9	2.554	11.44	46.00	-34.56	1.16	9.65	0.11	0.52	Average
10	2.554	17.96	56.00	-38.04	7.68	9.65	0.11	0.52	QP
11	24.271	16.02	50.00	-33.98	5.10	9.79	0.30	0.83	Average
12	24.271	22.03	60.00	-37.97	11.11	9.79	0.30	0.83	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).