

Japan Test Report

Equipment : InfoTag 1.54 G3
Model No. : InfoTag 1.54
Brand Name : DIGI
Applicant : DIGI SINGAPORE PTE. LTD.
Address : 4 Leng Kee Rd, #05-03/04/05&11, SIS Building,
Singapore 159088
Standard : Article 2 Paragraph 1 Item 19
Received Date : Jun. 21, 2021
Tested Date : Jun. 22, 2021

Measurement was conducted by the following test method:
the test method of Ordinance Concerning Technical Regulations Conformity Certification
etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and
Communications notification in Annex "43" of Article 88, Paragraph 1 and ARIB STD-T66.

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 may be duplicated
completely for legal use with the approval of the applicant. It shall not be reproduced except
in full without the written approval of our laboratory.

Reviewed by:


James Fan / Assistant Manager

Approved by:


Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
JR162102	Rev. 01	Initial issue	Jul. 02, 2021

Summary of Test Results

Ref. Std. Clause	Description	Result
3.2(2)(3)	Antenna Power	Pass
3.2(4)	Frequency Tolerance	Pass
3.2(6)	Transmitter Spurious Emission	Pass
3.2(7)	Occupied Bandwidth	Pass
3.3(1)	Receiver Emission	Pass
3.4.1	Interference prevention function	Pass

Declaration of Conformity:

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

Comments and Explanations:

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

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

Power Supply Type	3Vdc from battery (Coin Battery x1) Brand: henlimax / Model: CR2477
Type(s) of Modulation / Technology	GFSK = 250kbps
Frequency Range (MHz)	2402 ~ 2480 MHz
Total Channel Number	79
HW Version	TWB-15220-0 REV D
SW Version	F003

1.1.2 Accessories

N/A

1.1.3 Antenna Details

Ant. No.	Type	Connector	Gain (dBi)
1	CHIP	PCB SURFACE MOUNT	-2.4

Note: Please refer to antenna report for more details about antenna pattern and other information.

1.1.4 Antenna Power

Operating Mode	Rated Power (mW)	Measured Conducted Power (mW)	Radiated Power (mW)
GFSK	4.00	3.828	2.203

1.1.5 Channel List

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

1.1.6 Test Tool and Power Index

Test Tool
SmartRF Studio, Version: 7

Power Index			
Modulation Mode	Test Frequency (MHz)		
	2402	2440	2480
GFSK	Default	Default	Default

1.1.7 Test Voltage

Test Voltage	☒ Vnom (3 Vdc)	☒ Vmax (3.3 Vdc)	☒ Vmin (2 Vdc)
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1.1.8 Protection Method for High Frequency and Modulation Section

Protected Method	Description
Ultrasonic Pressure	Against the illigal modification, the RF and modulation are protected by Ultrasonic welding method on the case.

1.2 Test Equipment and Calibration Data

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Apr. 19, 2021	Apr. 18, 2022
Power Meter	Anritsu	ML2495A	1241002	Nov. 04, 2020	Nov. 03, 2021
Power Sensor	Anritsu	MA2411B	1207366	Nov. 04, 2020	Nov. 03, 2021
DC POWER SOURCE	GW INSTEK	GPC-6030D	GES855395	Nov. 09, 2020	Nov. 08, 2021
RF cable	HUBER+SUHNER	SUCOFLEX104	MY16016/4	Oct. 16, 2020	Oct. 15, 2021
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note 1: Calibration Interval of instruments listed above is one year. Note 2: Above instruments are calibrated by Electronics Testing Center					

1.3 Testing Applied Standards

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

Article 2 Paragraph 1 Item 19

1.4 Deviation from Test Standard and Measurement Procedure

None

1.5 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	±34.139 Hz
Conducted power	±0.808 dB
Frequency error	±1x10 ⁻⁹
TX Conducted emission	±2.680 dB
RX Conducted emission	±3.034 dB

2 Test Configuration

2.1 Testing Location and Conditions

Test Site	Site Category	Ambient Condition	Tested By
TH01-WS	OVEN Room	26°C / 62%	Alex Huang

2.2 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	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.)

2.3 Supporting Units

Support Unit	Brand	Model	FCC ID
Notebook	DELL	Latitude E5470	DoC

2.4 The Worst Test Modes and Channel Details

Test item	Mode	Test Frequency (MHz)
Antenna Power Frequency Tolerance Occupied Bandwidth Transmitter Spurious Emission Interference prevention function Receiver Spurious Emissions	GFSK	2402 / 2440 / 2480

3 Transmitter Test Results

3.1 Antenna Power

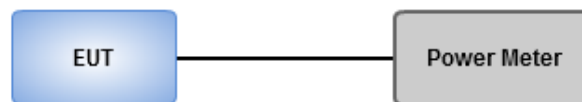
3.1.1 Limit of Antenna Power

Mode	Limit	Tolerance
1) FH, FH+DS, FH+OFDM	3 mW / MHz	+20 % , -80 %
2) OFDM(Narrow- bandwidht), DS	10 mW / MHz	
3) Other than 1) & 2)	10mW	
4) OFDM (Wide-band)	5 mW / MHz	

3.1.2 Test Procedures

Measure the total power by Power Meter

3.1.3 Test Setup



3.1.4 Test Result of Maximum Transmit Power

Refer to Appendix A1, A2

3.2 Frequency Tolerance

3.2.1 Limit of Frequency Tolerance

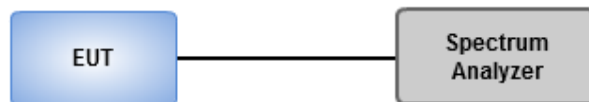
Frequency tolerance shall be +/- 50ppm.

3.2.2 Test Procedures

1. Set Span = 150kHz, RBW = 1kHz, VBW = 30kHz, Sweep time = Auto, detector = Peak.
2. Use Peak search function to find the max peak value and record this value (RF).
3. Calculate frequency tolerance by below formula
$$FT(ppm) = \{ (RF) - (MF) / (MF) \} \times 1000000$$

(FT: Frequency Tolerance, RF: Reading Frequency, MF: Measurement Frequency.)

3.2.3 Test Setup



3.2.4 Test Result of Frequency Tolerance

Refer to Appendix B

3.3 Occupied Bandwidth

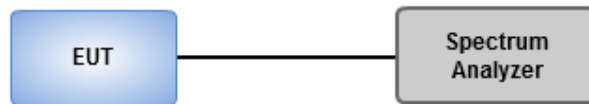
3.3.1 Limit of Occupied Bandwidth

Mode	Limit (MHz)
FH	83.5
FH+DS	83.5
FH+OFDM	83.5
OFDM(Narrow- bandwidht), DS	26
Others	26
OFDM (Wide-band)	38

3.3.2 Test Procedures

1. Set Span = 40MHz, RBW = VBW = 300kHz, detector = Peak, Sweep time = Auto.
2. Enable OBW function of spectrum analyzer to measure OBW and capture test plot.

3.3.3 Test Setup



3.3.4 Test Result of Occupied Bandwidth

Refer to Appendix C

3.4 Transmitter Spurious Emissions

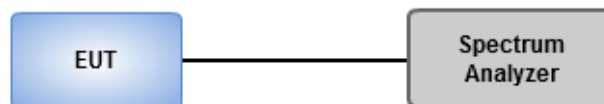
3.4.1 Limit of Transmitter Spurious Emissions

Item	Limits
Tx Spurious Emission	$\leq 2.5 \mu\text{W}$ ($2387\text{MHz} > f$; $2496.5\text{MHz} < f$).
	$\leq 25 \mu\text{W}$. ($2387\text{MHz} \leq f < 2400\text{MHz}$) and ($2483.5\text{MHz} < f \leq 2496.5\text{MHz}$).

3.4.2 Test Procedures

1. Set EUT to transmit at rated power and channel to perform test.
2. Set RBW = VBW = 1MHz, Detector type = Peak, Sweep time = Auto.
3. Following above setting of spectrum analyzer to measure spurious emission of 30~12500 MHz.

3.4.3 Test Setup



3.4.4 Test Result of Transmitter Spurious Emissions

Refer to Appendix D

3.5 Interference Prevention Function

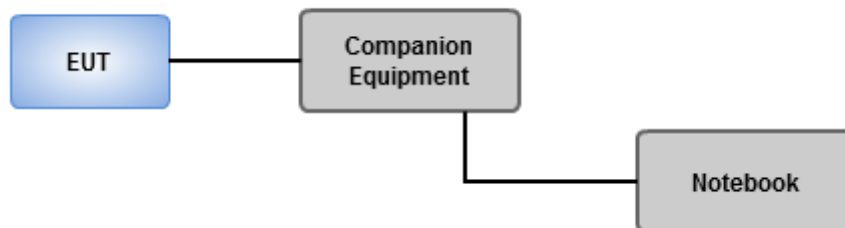
3.5.1 Limit of Interference Prevention Function

Limits
The identification code shall be 48 bits long

3.5.2 Test Procedures

1. Set EUT under operating mode and link up with companion equipment
2. Check communication status between EUT and companion equipment is normal
3. Confirm the MAC address of EUT

3.5.3 Test Setup



3.5.4 Test Result of Interference Prevention Function

Refer to Appendix E

4 Receiver Test Results

4.1 Receiver Spurious Emissions

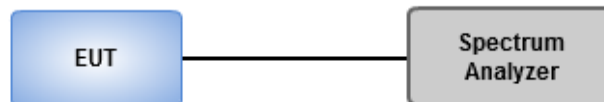
4.1.1 Limit of Receiver Spurious Emissions

Item	Limits
Rx Spurious Emission	$\leq 4\text{nW}$ ($f < 1\text{GHz}$).
	$\leq 20\text{nW}$ ($1\text{GHz} \leq f$).

4.1.2 Test Procedures

1. Set EUT under receiving condition to perform test
2. Set RBW = VBW = 100kHz, detector = Peak, Sweep time = Auto for emission measurement below 1GHz.
3. Set RBW = VBW=1MHz, detector = Peak, Sweep time = Auto for emission measurement above 1GHz.

4.1.3 Test Setup



4.1.4 Test Result of Receiver Spurious Emissions

Refer to Appendix F

5 Test laboratory information

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

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

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

Linkou

Tel: 886-2-2601-1640

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

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 333, Taiwan (R.O.C.)

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

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==

**Summary**

Mode	Power (dBm)	Power (mW)	EIRP (dBm)	EIRP (mW)
2.4-2.4835GHz	-	-	-	-
GFSK	5.83	3.828	3.43	2.203

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power (mW)	Power Lim. (mW)	EIRP (dBm)	EIRP (mW)	EIRP Lim. (mW)
GFSK	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	-2.40	5.82	3.819	10	3.42	2.198	16.368
2402MHz_TnomVmin	Pass	-2.40	5.82	3.819	10	3.42	2.198	16.368
2402MHz_TnomVmax	Pass	-2.40	5.83	3.828	10	3.43	2.203	16.368
2440MHz_TnomVnom	Pass	-2.40	5.75	3.758	10	3.35	2.163	16.368
2440MHz_TnomVmin	Pass	-2.40	5.74	3.750	10	3.34	2.158	16.368
2440MHz_TnomVmax	Pass	-2.40	5.76	3.767	10	3.36	2.168	16.368
2480MHz_TnomVnom	Pass	-2.40	5.58	3.614	10	3.18	2.080	16.368
2480MHz_TnomVmin	Pass	-2.40	5.57	3.606	10	3.17	2.075	16.368
2480MHz_TnomVmax	Pass	-2.40	5.59	3.622	10	3.19	2.084	16.368

Summary

Mode	Result	Power (dBm)	Power (mW)	Declare (mW)	Tolerance (%)	Limit+ (%)	Limit- (%)
2.4-2.4835GHz	-	-	-	-	-	-	-
GFSK	Pass	5.83	3.8282	4.00	-4.30	20	-80

Result

Mode	Result	Power (dBm)	Power (mW)	Declare (mW)	Tolerance (%)	Limit+ (%)	Limit- (%)
GFSK	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	5.82	3.819	4.00	-4.53	20	-80
2402MHz_TnomVmin	Pass	5.82	3.819	4.00	-4.53	20	-80
2402MHz_TnomVmax	Pass	5.83	3.828	4.00	-4.30	20	-80
2440MHz_TnomVnom	Pass	5.75	3.758	4.00	-6.05	20	-80
2440MHz_TnomVmin	Pass	5.74	3.750	4.00	-6.25	20	-80
2440MHz_TnomVmax	Pass	5.76	3.767	4.00	-5.83	20	-80
2480MHz_TnomVnom	Pass	5.58	3.614	4.00	-9.65	20	-80
2480MHz_TnomVmin	Pass	5.57	3.606	4.00	-9.85	20	-80
2480MHz_TnomVmax	Pass	5.59	3.622	4.00	-9.45	20	-80

**Summary**

Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port	Remark
2.4-2.4835GHz	-	-	-	-	-	-	-
GFSK	Pass	2.48G	2.47998429G	-6.3355	±50	1	-

Result

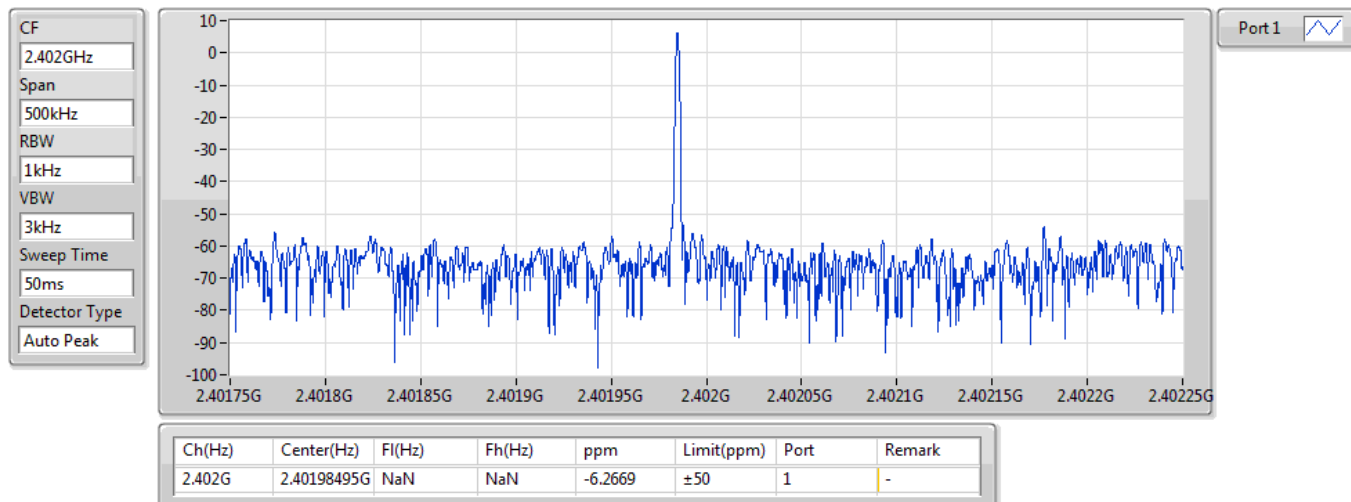
Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port	Remark
GFSK	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.402G	2.40198495G	-6.2669	±50	1	-
2402MHz_TnomVmin	Pass	2.402G	2.40198494G	-6.2719	±50	1	-
2402MHz_TnomVmax	Pass	2.402G	2.40198493G	-6.2756	±50	1	-
2440MHz_TnomVnom	Pass	2.44G	2.43998464G	-6.2955	±50	1	-
2440MHz_TnomVmin	Pass	2.44G	2.43998463G	-6.2975	±50	1	-
2440MHz_TnomVmax	Pass	2.44G	2.43998462G	-6.3016	±50	1	-
2480MHz_TnomVnom	Pass	2.48G	2.4799843G	-6.3315	±50	1	-
2480MHz_TnomVmin	Pass	2.48G	2.47998429G	-6.3339	±50	1	-
2480MHz_TnomVmax	Pass	2.48G	2.47998429G	-6.3355	±50	1	-



GFSK

Freq. Stability

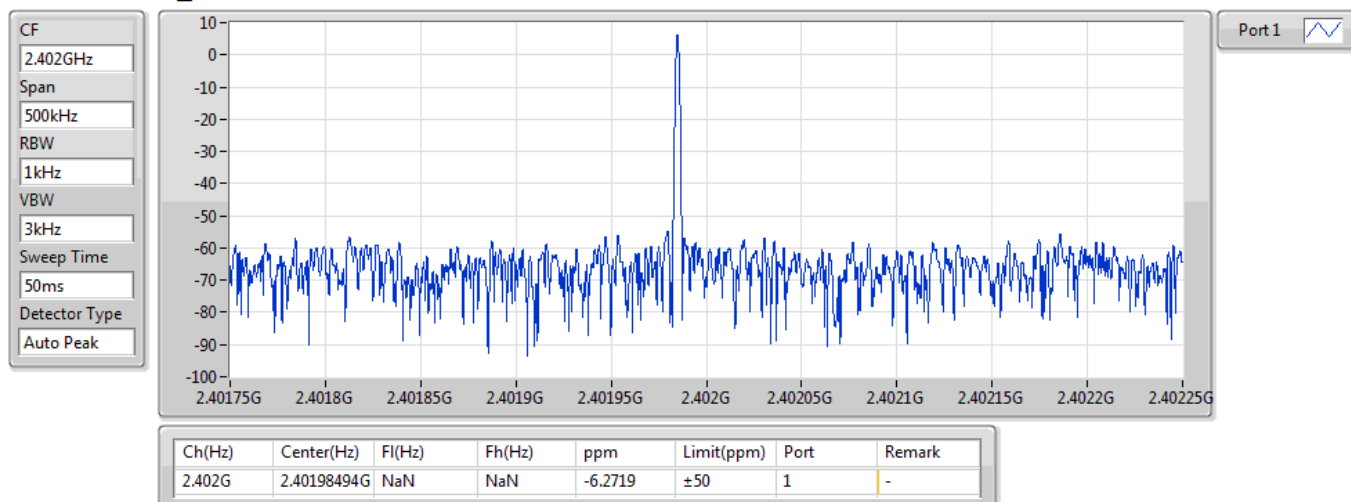
2402MHz_TnomVnom



GFSK

Freq. Stability

2402MHz_TnomVmin

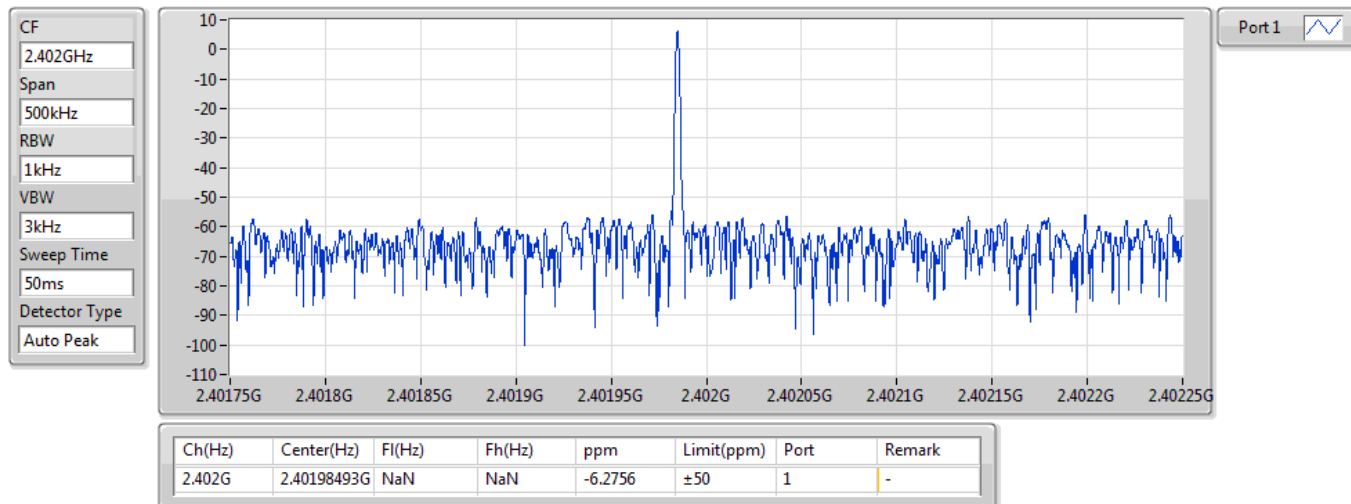




GFSK

Freq. Stability

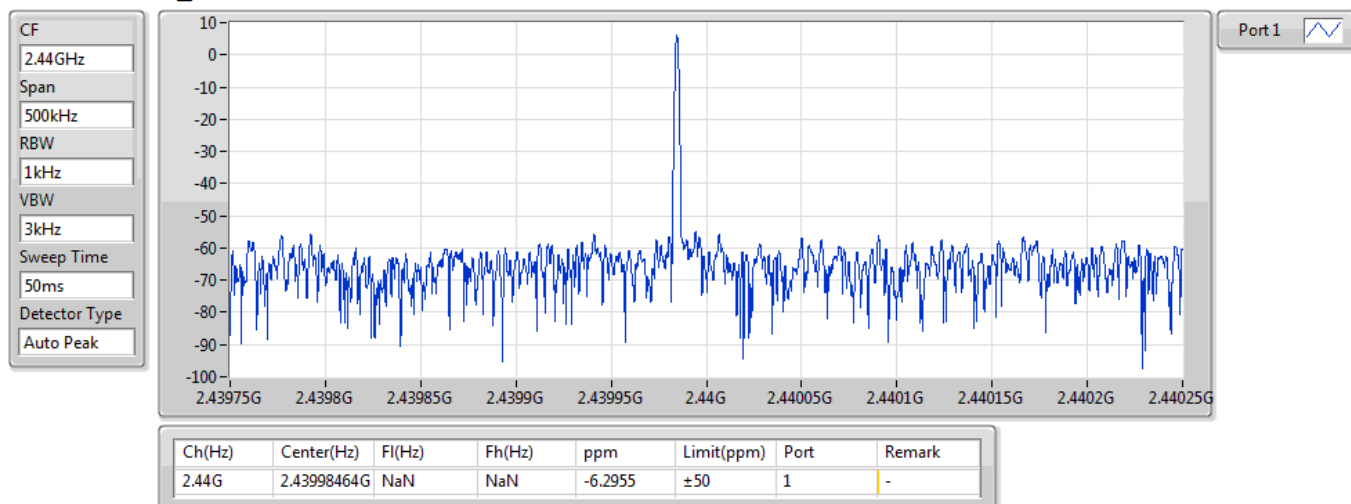
2402MHz_TnomVmax



GFSK

Freq. Stability

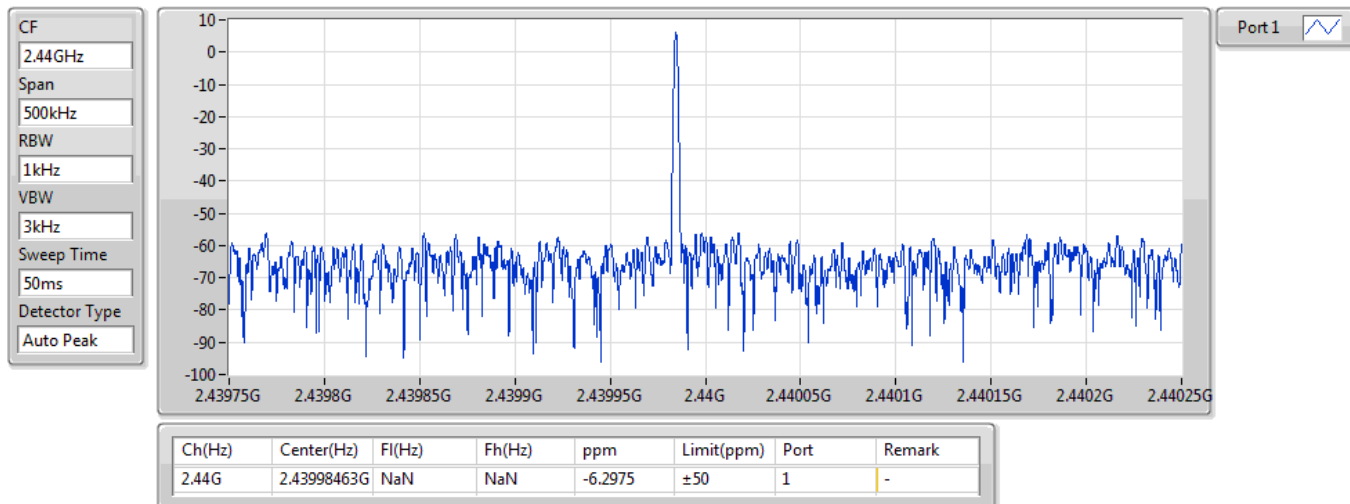
2440MHz_TnomVnom



GFSK

Freq. Stability

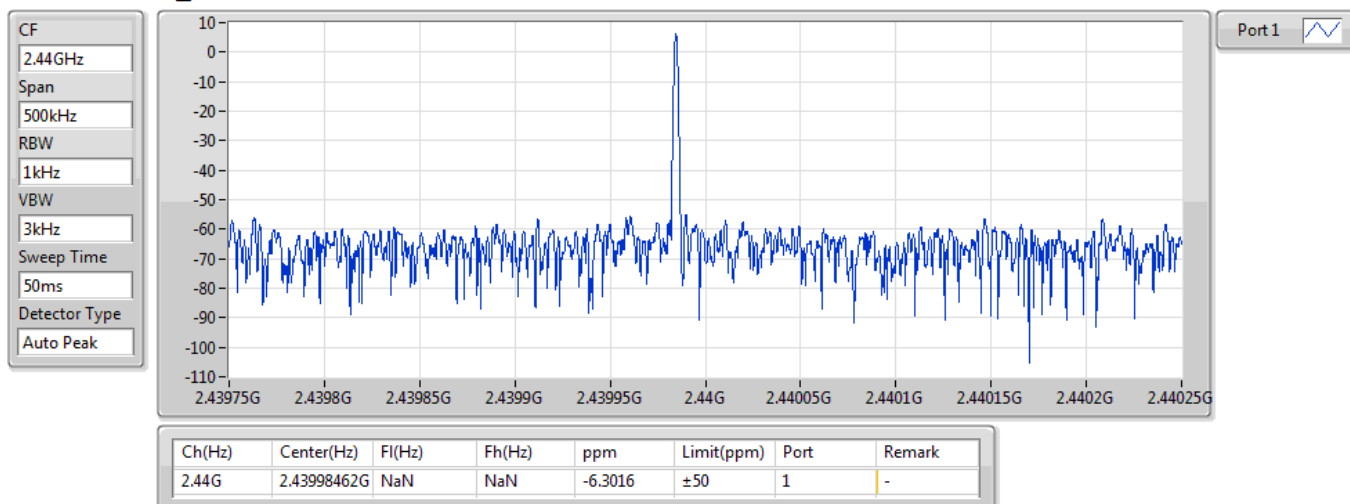
2440MHz_TnomVmin



GFSK

Freq. Stability

2440MHz_TnomVmax

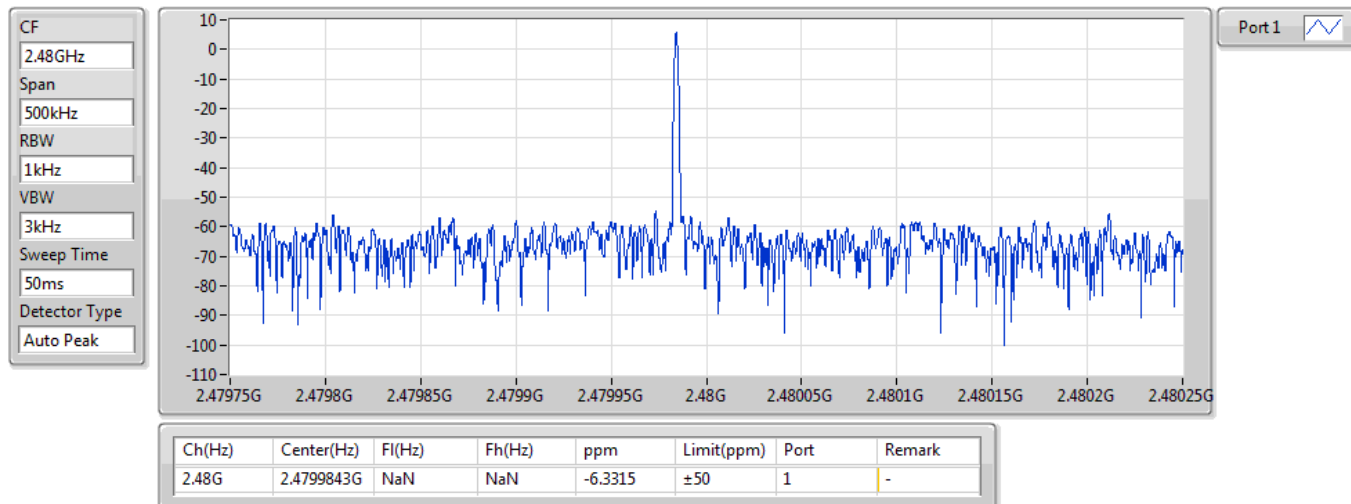




GFSK

Freq. Stability

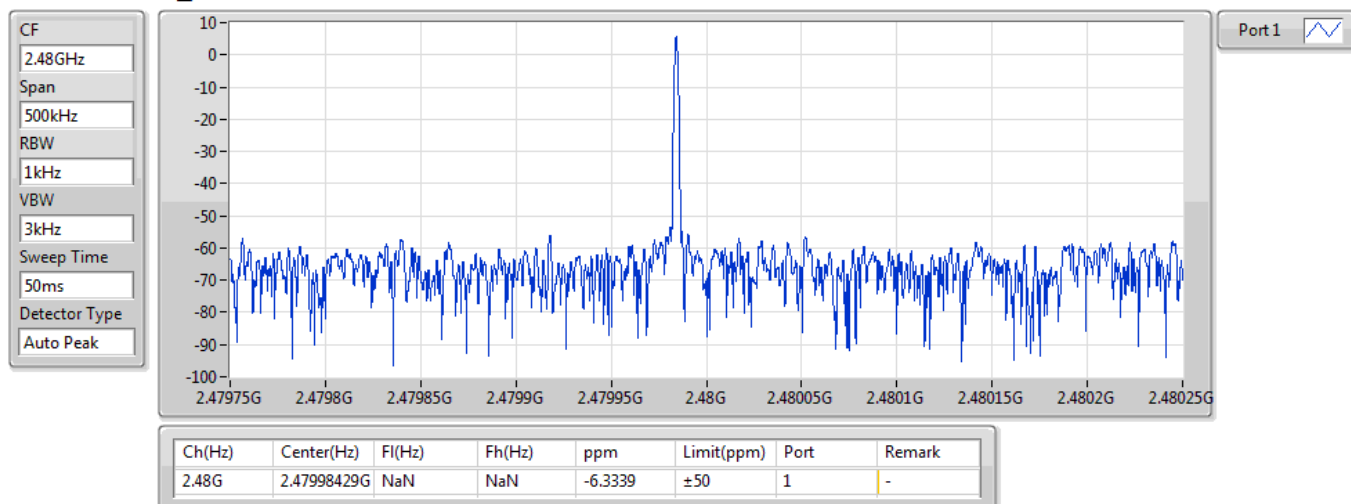
2480MHz_TnomVnom



GFSK

Freq. Stability

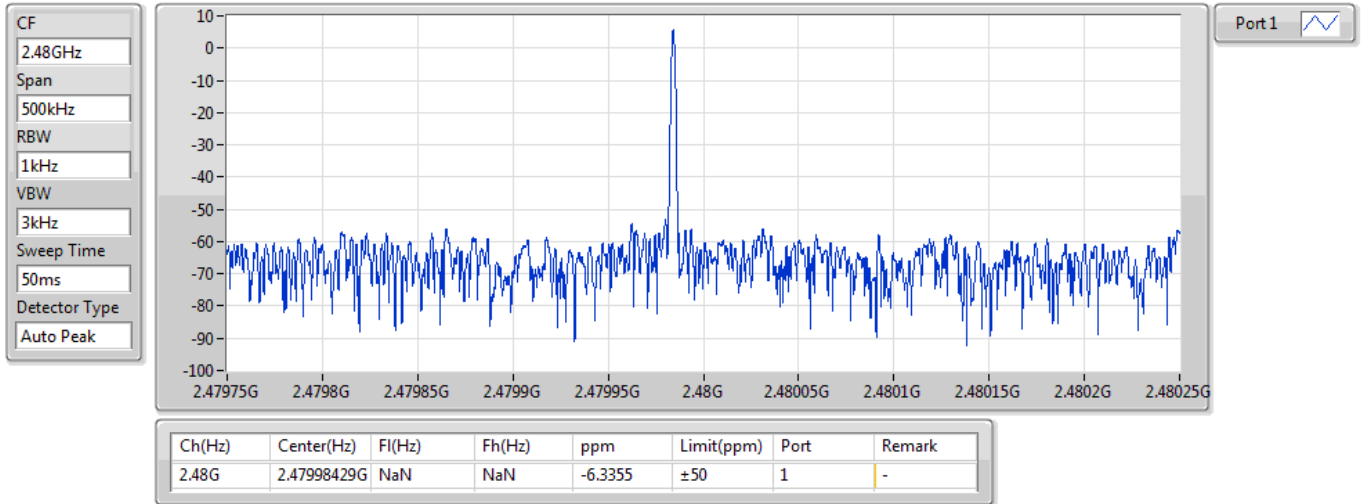
2480MHz_TnomVmin



GFSK

Freq. Stability

2480MHz_TnomVmax



**Summary**

Mode	Max-OBW (Hz)	ITU-Code	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-
GFSK	1.181M	1M18F1D	1.161M

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

Result

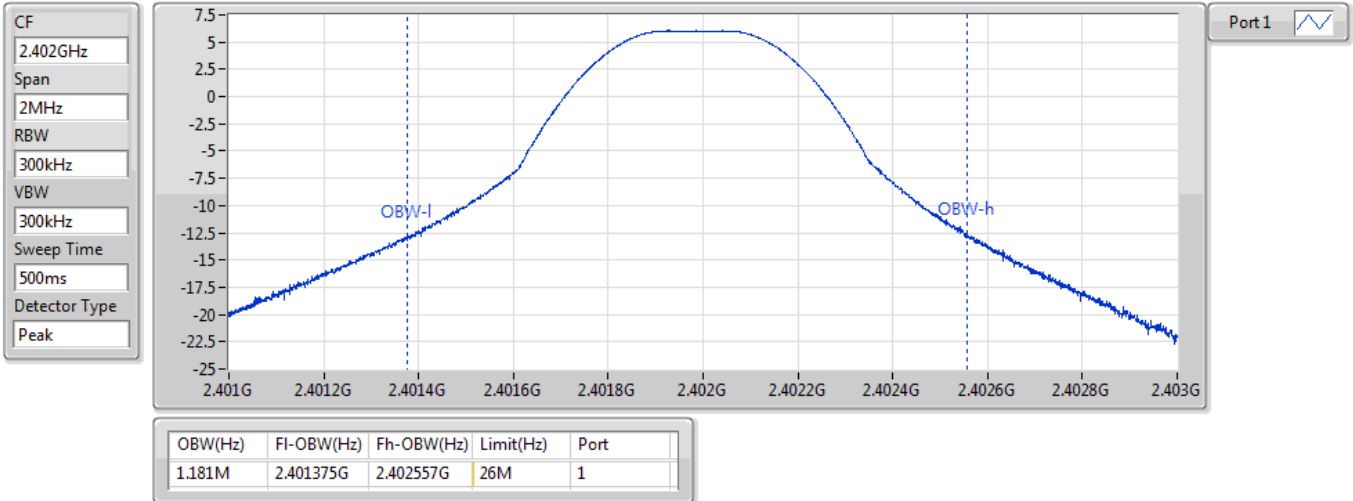
Mode	Result	Limit (Hz)	P1-OBW (Hz)
GFSK	-	-	-
2402MHz_TnomVnom	Pass	26M	1.181M
2402MHz_TnomVmin	Pass	26M	1.173M
2402MHz_TnomVmax	Pass	26M	1.18M
2440MHz_TnomVnom	Pass	26M	1.17M
2440MHz_TnomVmin	Pass	26M	1.17M
2440MHz_TnomVmax	Pass	26M	1.171M
2480MHz_TnomVnom	Pass	26M	1.165M
2480MHz_TnomVmin	Pass	26M	1.161M
2480MHz_TnomVmax	Pass	26M	1.165M

P1-OBW = Port 1 99% occupied bandwidth;

GFSK

OBW

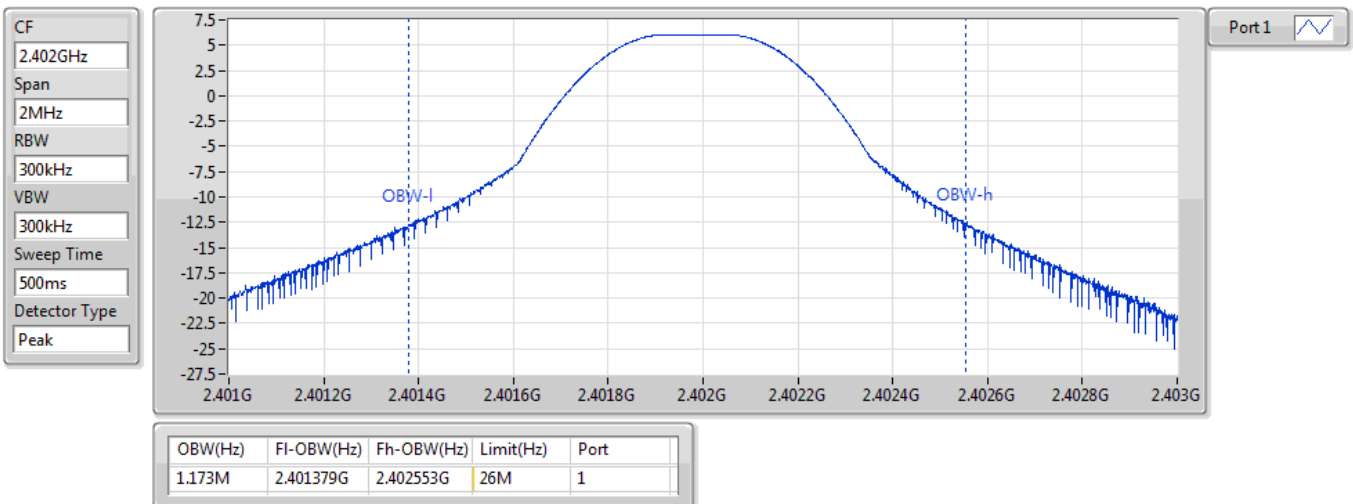
2402MHz_TnomVnom



GFSK

OBW

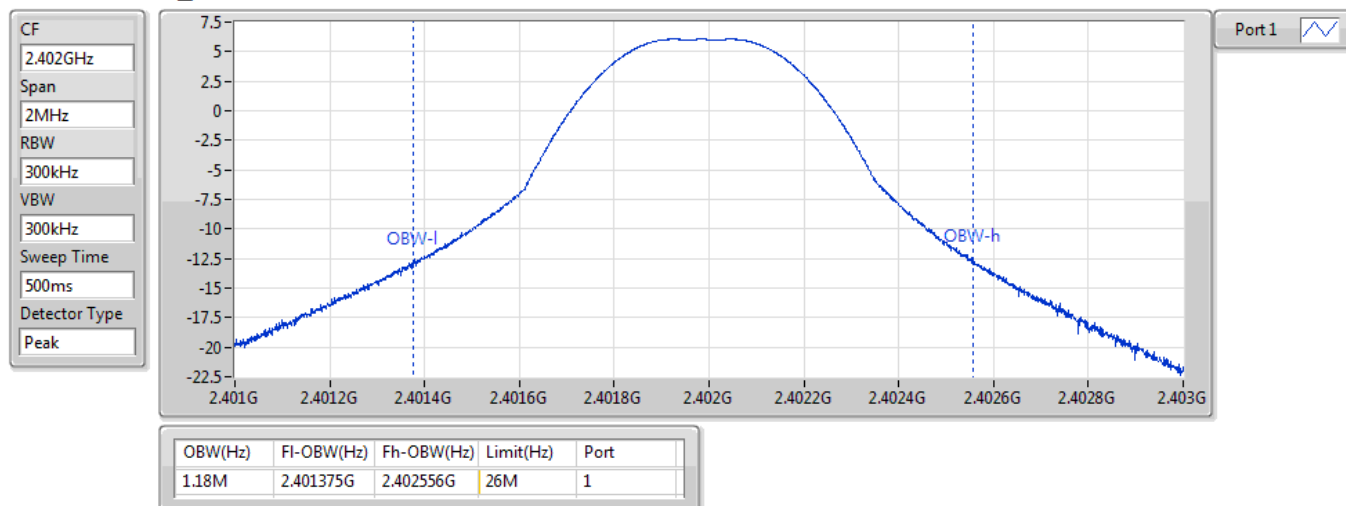
2402MHz_TnomVmin



GFSK

OBW

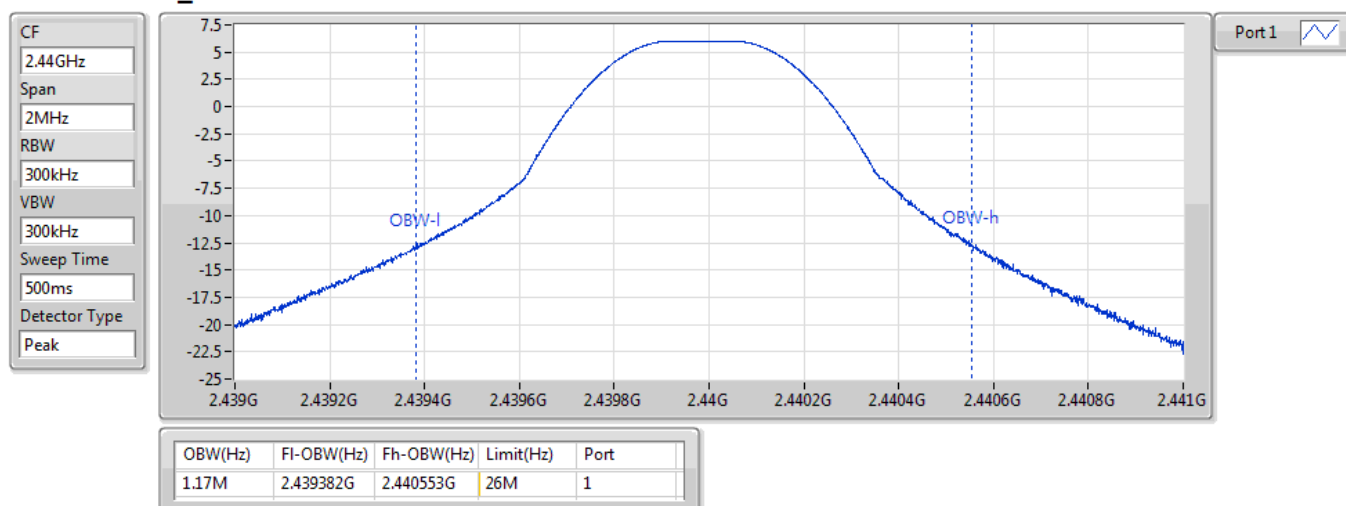
2402MHz_TnomVmax



GFSK

OBW

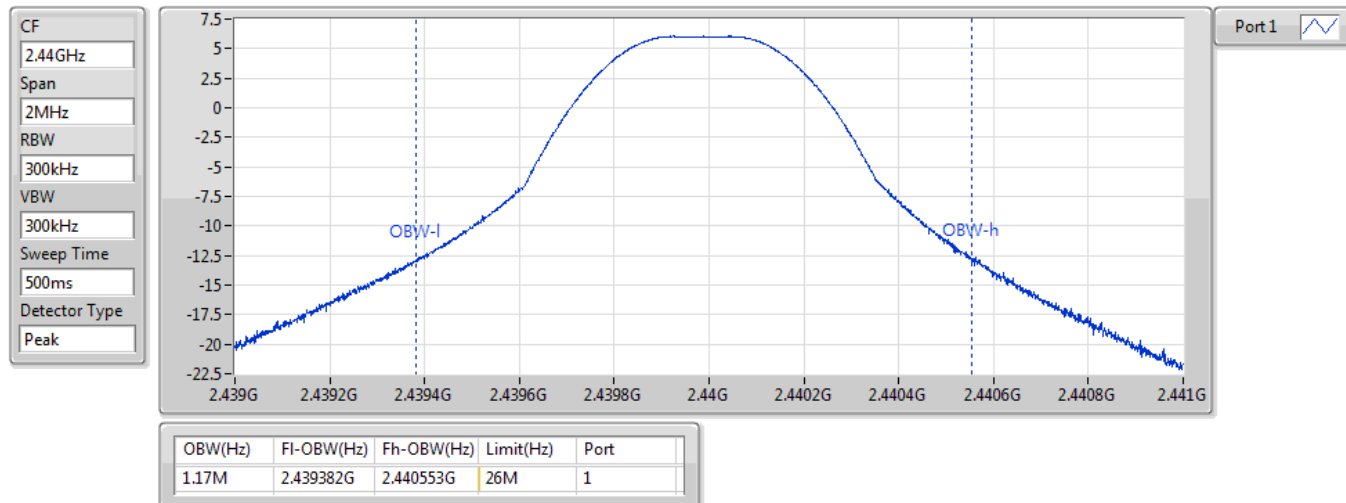
2440MHz_TnomVnom



GFSK

OBW

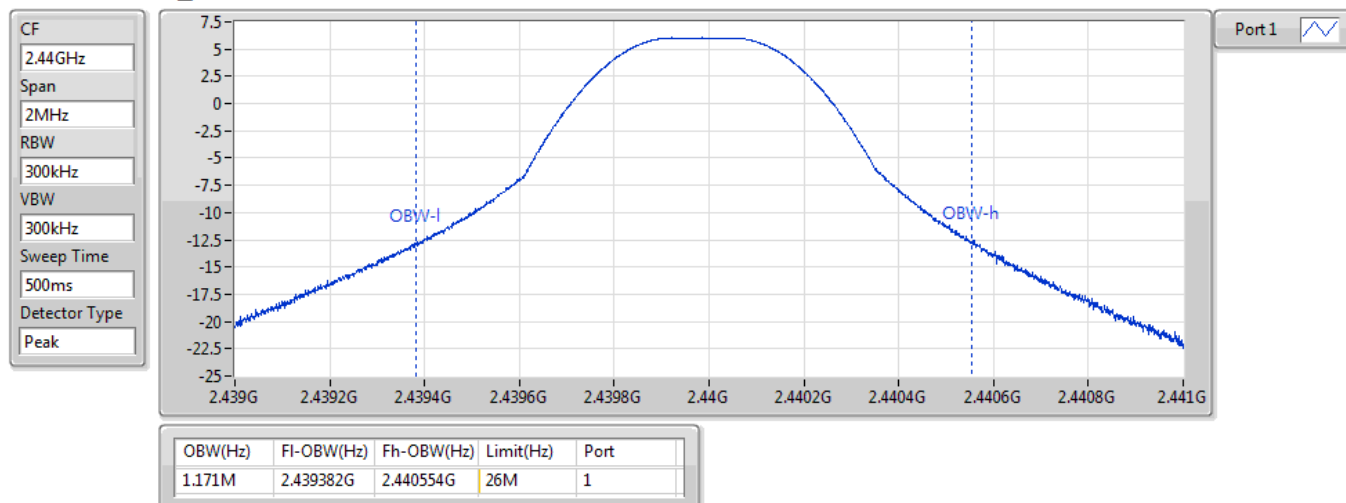
2440MHz_TnomVmin



GFSK

OBW

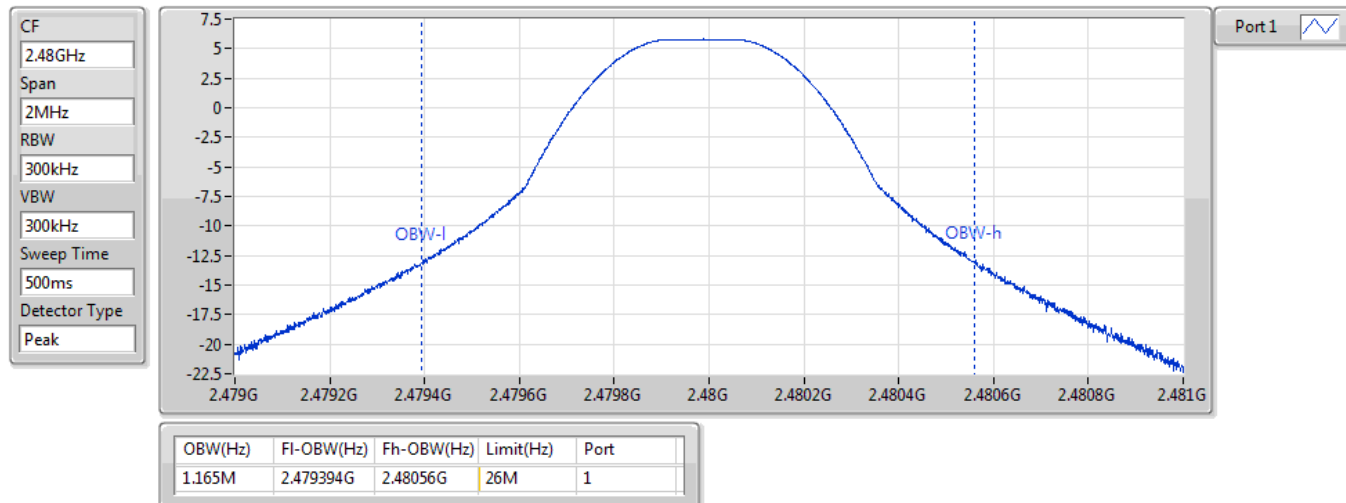
2440MHz_TnomVmax



GFSK

OBW

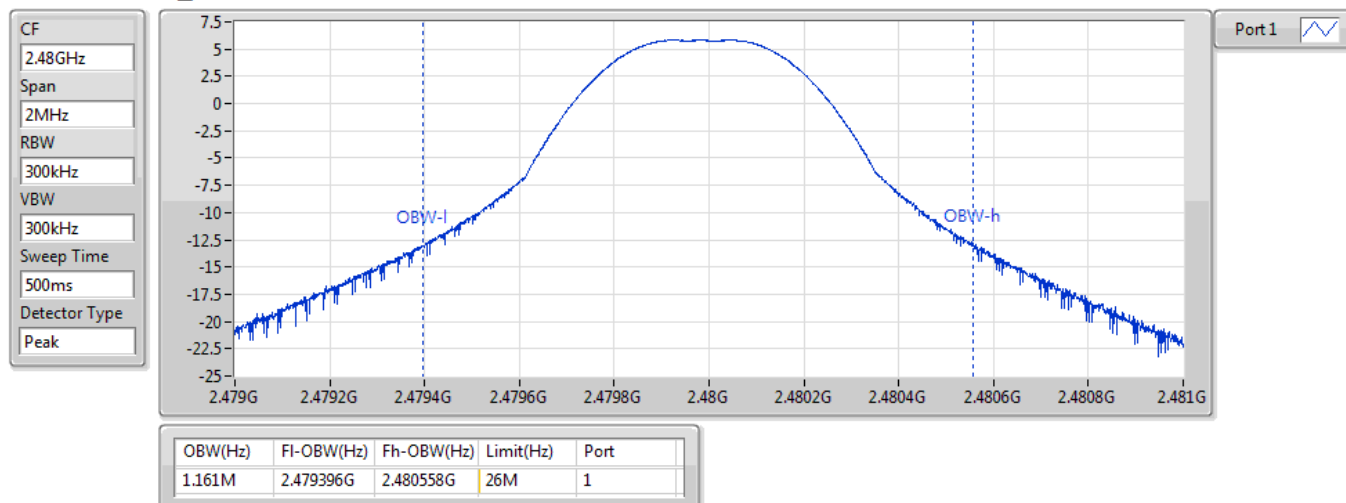
2480MHz_TnomVnom



GFSK

OBW

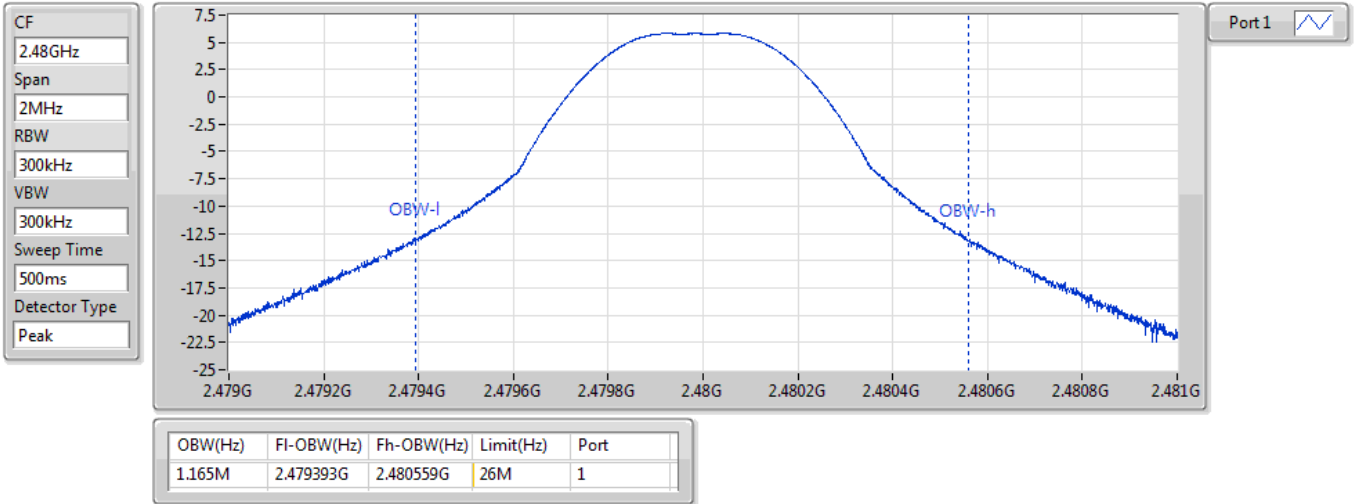
2480MHz_TnomVmin



GFSK

OBW

2480MHz_TnomVmax



Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (Hz)	Psum (dBm/MHz)	Psum (uW/MHz)	Limit (dBm/MHz)	Limit (uW/MHz)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-
GFSK	Pass	2.4965G	12.5G	1M	7.20565G	-36.13	0.24378	-26.02	2.5

Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (Hz)	Psum (dBm/MHz)	Psum (uW/MHz)	Limit (dBm/MHz)	Limit (uW/MHz)
GFSK	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	30M	2.387G	1M	2.35282G	-51.59	0.00693	-26.02	2.5
2402MHz_TnomVnom	Pass	2.387G	2.4G	1M	2.39997G	-35.62	0.27416	-16.02	25
2402MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2.49273G	-51.98	0.00634	-16.02	25
2402MHz_TnomVnom	Pass	2.4965G	12.5G	1M	7.20565G	-36.78	0.20989	-26.02	2.5
2402MHz_TnomVmin	Pass	30M	2.387G	1M	2.3375G	-51.66	0.00682	-26.02	2.5
2402MHz_TnomVmin	Pass	2.387G	2.4G	1M	2.4G	-35.08	0.31046	-16.02	25
2402MHz_TnomVmin	Pass	2.4835G	2.4965G	1M	2.49039G	-51.96	0.00637	-16.02	25
2402MHz_TnomVmin	Pass	2.4965G	12.5G	1M	7.20565G	-36.49	0.22439	-26.02	2.5
2402MHz_TnomVmax	Pass	30M	2.387G	1M	2.29154G	-51.77	0.00665	-26.02	2.5
2402MHz_TnomVmax	Pass	2.387G	2.4G	1M	2.4G	-35.01	0.3155	-16.02	25
2402MHz_TnomVmax	Pass	2.4835G	2.4965G	1M	2.49556G	-51.92	0.00643	-16.02	25
2402MHz_TnomVmax	Pass	2.4965G	12.5G	1M	7.20565G	-36.13	0.24378	-26.02	2.5
2440MHz_TnomVnom	Pass	30M	2.387G	1M	2.28683G	-51.33	0.00736	-26.02	2.5
2440MHz_TnomVnom	Pass	2.387G	2.4G	1M	2.39815G	-52.46	0.00568	-16.02	25
2440MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2.48821G	-51.93	0.00641	-16.02	25
2440MHz_TnomVnom	Pass	2.4965G	12.5G	1M	7.31944G	-38.15	0.15311	-26.02	2.5
2440MHz_TnomVmin	Pass	30M	2.387G	1M	2.32336G	-51.74	0.0067	-26.02	2.5
2440MHz_TnomVmin	Pass	2.387G	2.4G	1M	2.39376G	-52.44	0.0057	-16.02	25
2440MHz_TnomVmin	Pass	2.4835G	2.4965G	1M	2.48522G	-51.94	0.0064	-16.02	25
2440MHz_TnomVmin	Pass	2.4965G	12.5G	1M	7.31944G	-37.61	0.17338	-26.02	2.5
2440MHz_TnomVmax	Pass	30M	2.387G	1M	2.28683G	-51.83	0.00656	-26.02	2.5
2440MHz_TnomVmax	Pass	2.387G	2.4G	1M	2.39459G	-52.48	0.00565	-16.02	25
2440MHz_TnomVmax	Pass	2.4835G	2.4965G	1M	2.49429G	-51.88	0.00649	-16.02	25
2440MHz_TnomVmax	Pass	2.4965G	12.5G	1M	7.31944G	-37.86	0.16368	-26.02	2.5
2480MHz_TnomVnom	Pass	30M	2.387G	1M	2.32218G	-51.63	0.00687	-26.02	2.5
2480MHz_TnomVnom	Pass	2.387G	2.4G	1M	2.39977G	-52.45	0.00569	-16.02	25
2480MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2.48379G	-45.23	0.02999	-16.02	25
2480MHz_TnomVnom	Pass	2.4965G	12.5G	1M	7.43948G	-38.66	0.13614	-26.02	2.5



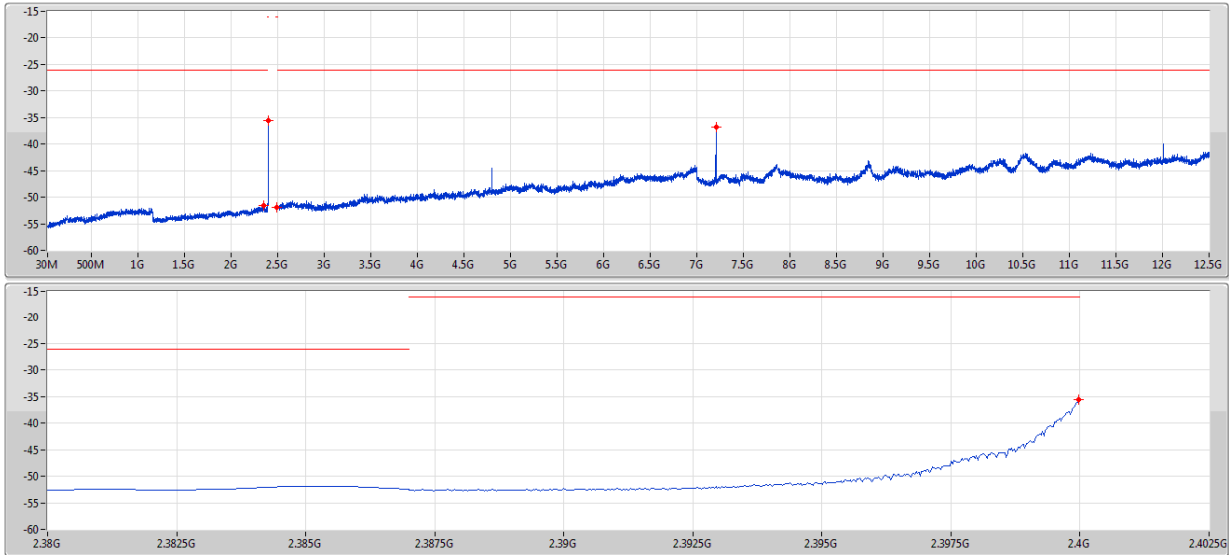
Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (Hz)	Psum (dBm/MHz)	Psum (uW/MHz)	Limit (dBm/MHz)	Limit (uW/MHz)
2480MHz_TnomVmin	Pass	30M	2.387G	1M	1.76357G	-44.13	0.03864	-26.02	2.5
2480MHz_TnomVmin	Pass	2.387G	2.4G	1M	2.39719G	-52.37	0.00579	-16.02	25
2480MHz_TnomVmin	Pass	2.4835G	2.4965G	1M	2.48366G	-44.89	0.03243	-16.02	25
2480MHz_TnomVmin	Pass	2.4965G	12.5G	1M	7.43948G	-38.47	0.14223	-26.02	2.5
2480MHz_TnomVmax	Pass	30M	2.387G	1M	2.34575G	-51.82	0.00658	-26.02	2.5
2480MHz_TnomVmax	Pass	2.387G	2.4G	1M	2.39997G	-52.43	0.00571	-16.02	25
2480MHz_TnomVmax	Pass	2.4835G	2.4965G	1M	2.48353G	-45.24	0.02992	-16.02	25
2480MHz_TnomVmax	Pass	2.4965G	12.5G	1M	7.43948G	-38.57	0.139	-26.02	2.5



GFSK

CSE-TX-DTS

2402MHz_TnomVnom

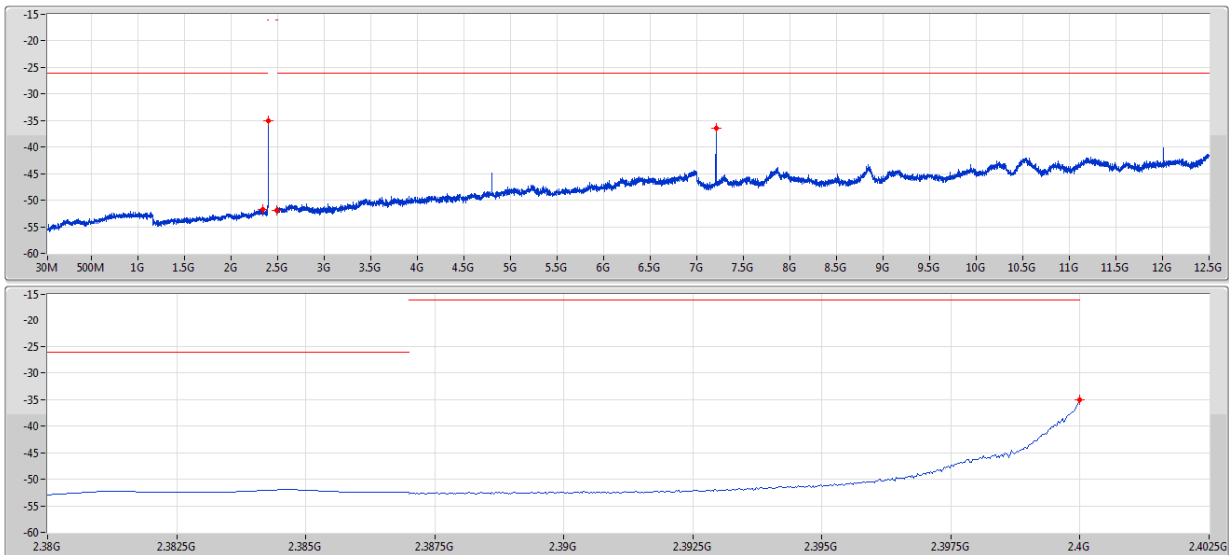


F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	2.387G	2.35282G	-51.59	-26.02	-25.57	-51.59
2.387G	2.4G	2.39997G	-35.62	-16.02	-19.60	-35.62
2.4835G	2.4965G	2.49273G	-51.98	-16.02	-35.96	-51.98
2.4965G	12.5G	7.20565G	-36.78	-26.02	-10.76	-36.78

GFSK

CSE-TX-DTS

2402MHz_TnomVmin



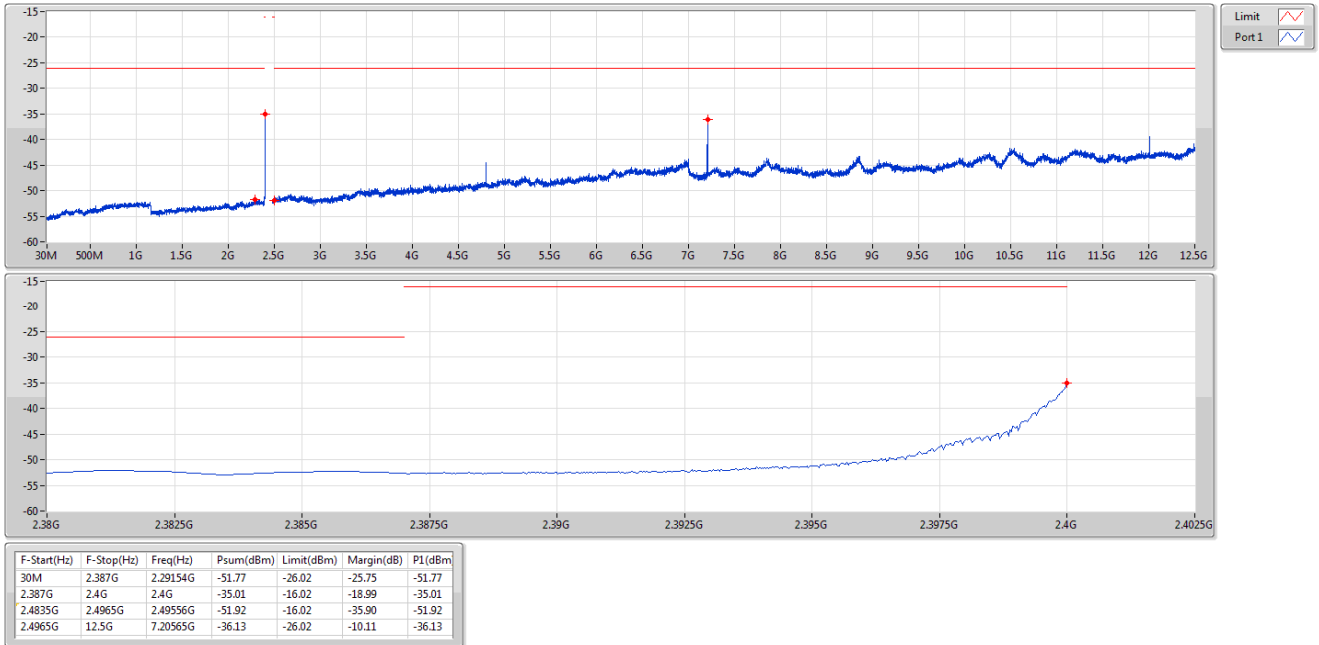
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	2.387G	2.3375G	-51.66	-26.02	-25.64	-51.66
2.387G	2.4G	2.4G	-35.08	-16.02	-19.06	-35.08
2.4835G	2.4965G	2.49039G	-51.96	-16.02	-35.94	-51.96
2.4965G	12.5G	7.20565G	-36.49	-26.02	-10.47	-36.49



GFSK

CSE-TX-DTS

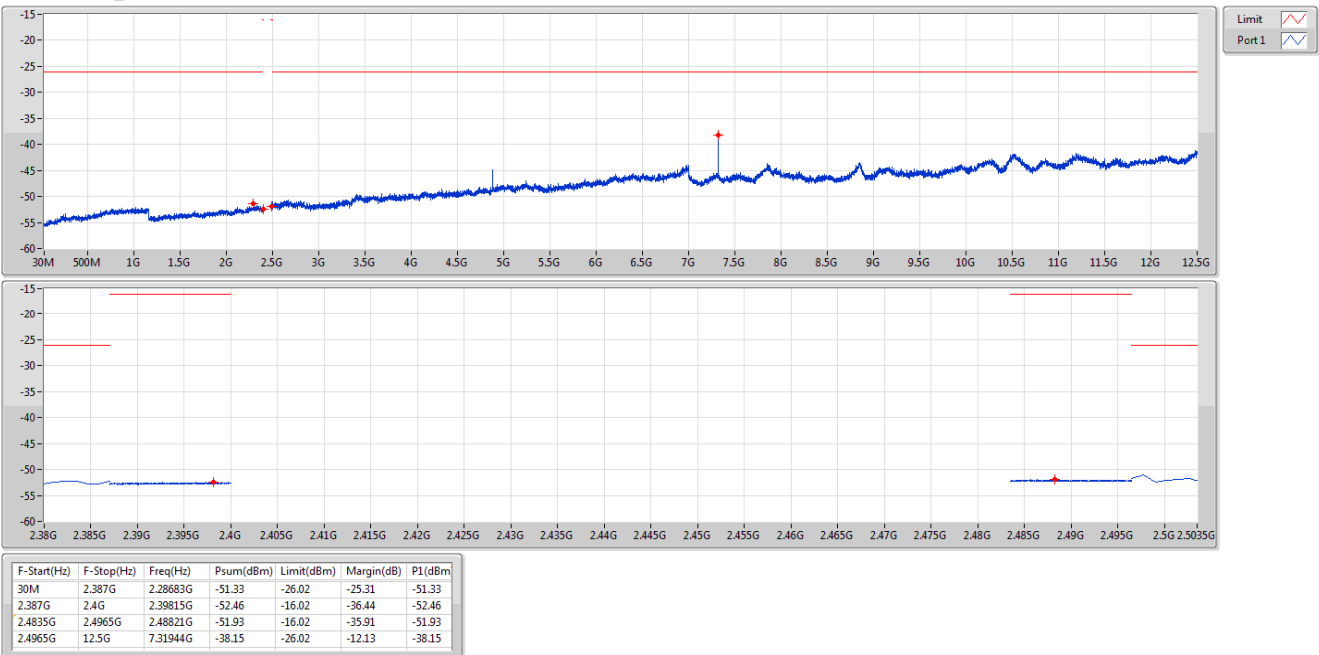
2402MHz_TnomVmax



GFSK

CSE-TX-DTS

2440MHz_TnomVnom

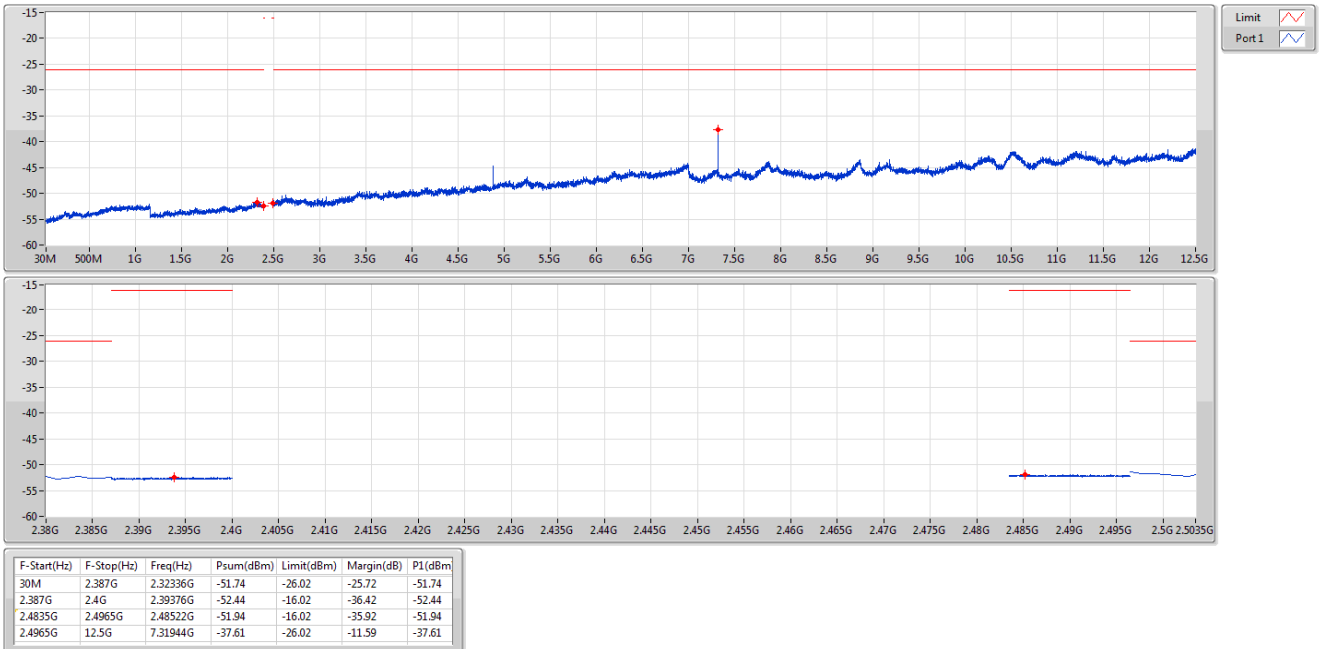




GFSK

CSE-TX-DTS

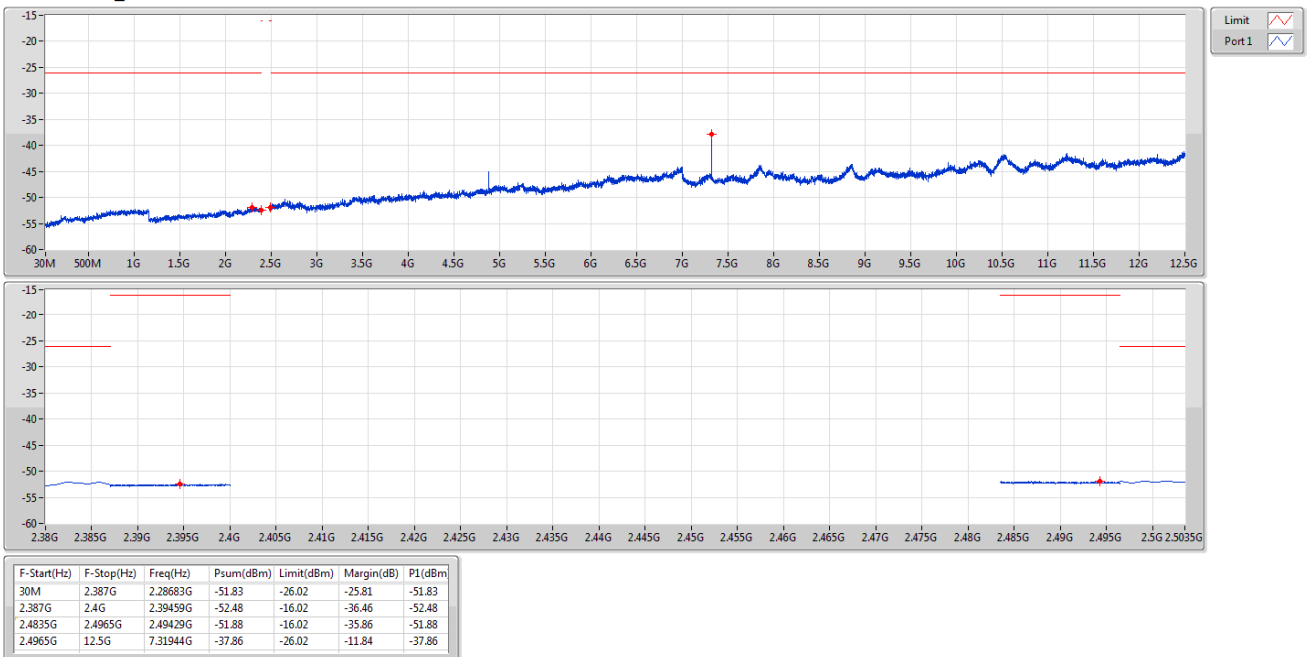
2440MHz_TnomVmin



GFSK

CSE-TX-DTS

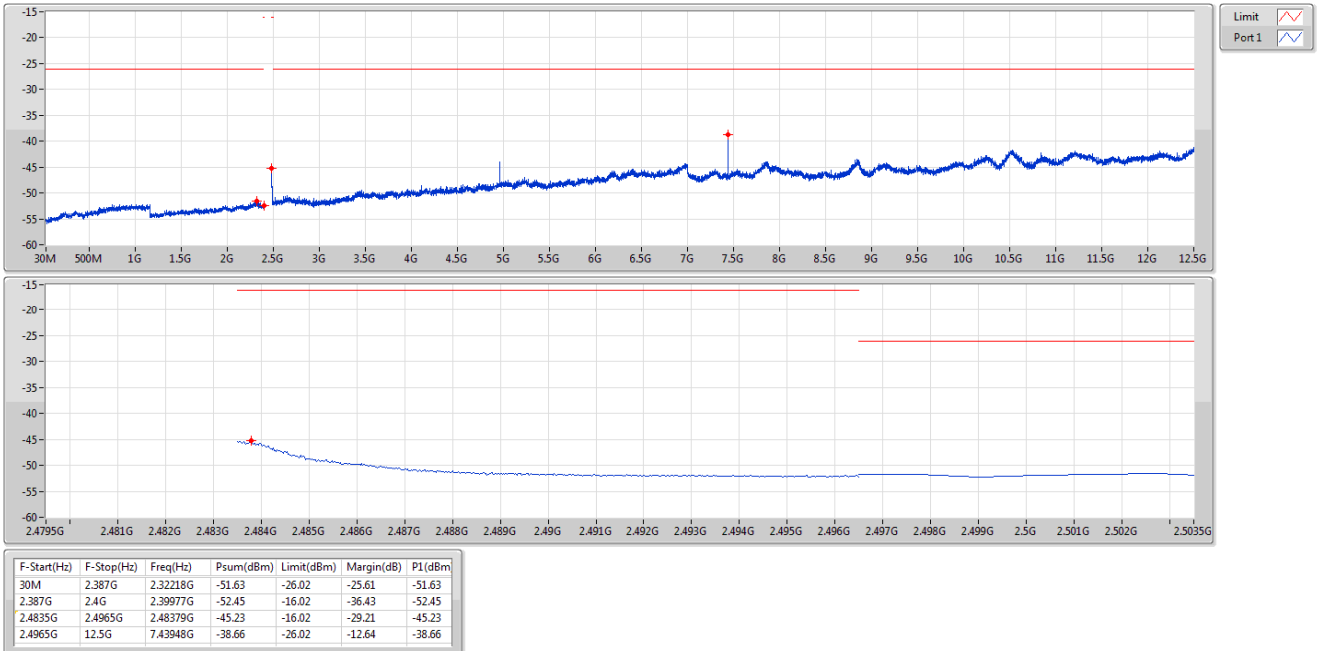
2440MHz_TnomVmax



GFSK

CSE-TX-DTS

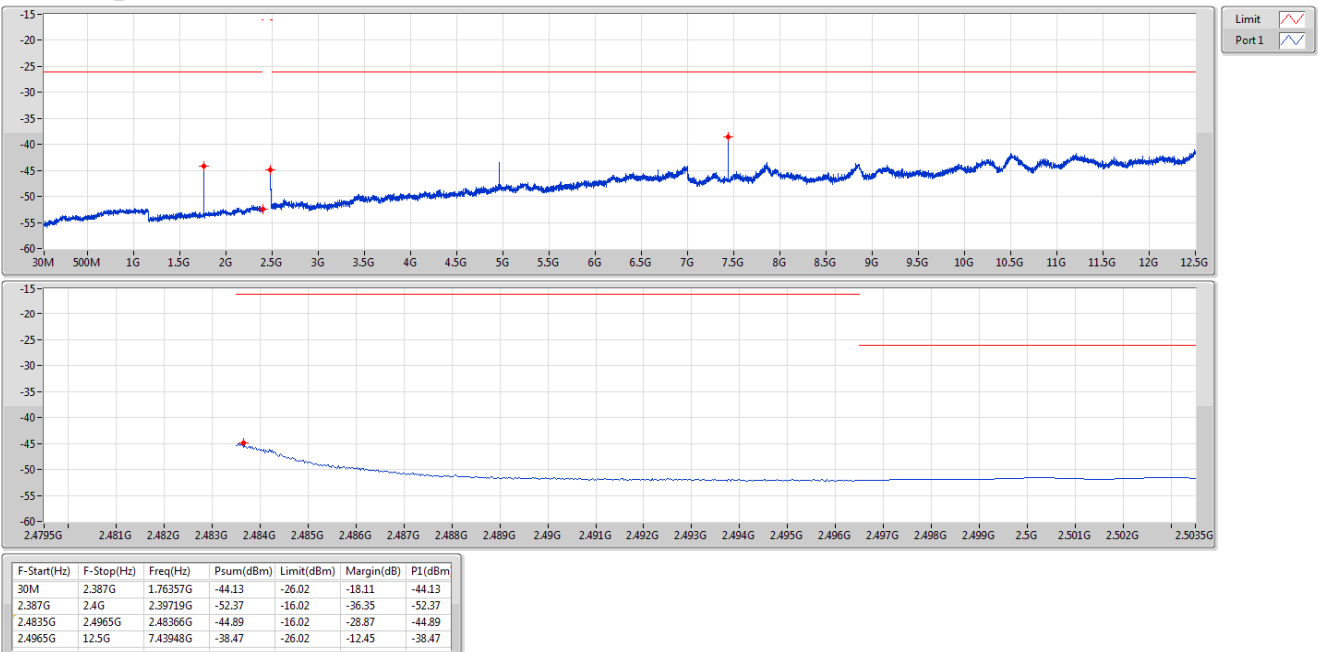
2480MHz_TnomVnom



GFSK

CSE-TX-DTS

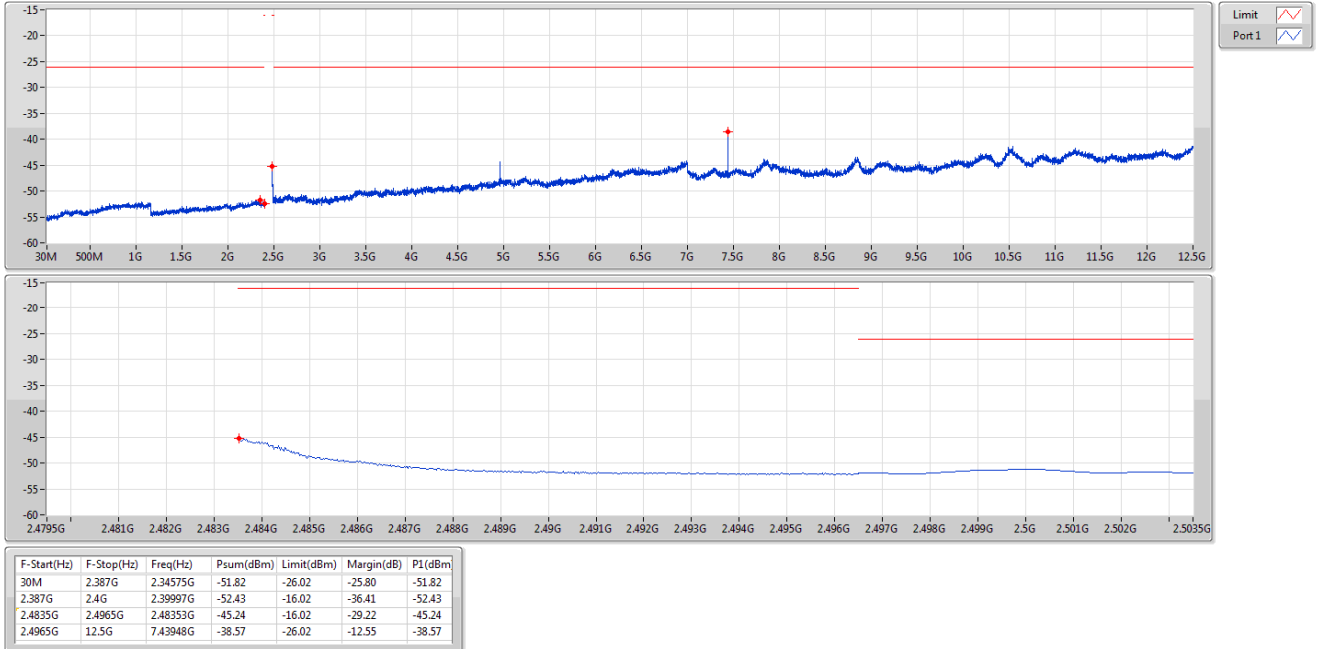
2480MHz_TnomVmin



GFSK

CSE-TX-DTS

2480MHz_TnomVmax



**Summary**

Mode	Result	MAC (ID Length)	ID Limit	Function
2.4-2.4835GHz	-	-	-	-
GFSK	Pass	48 bits	48 bits	Good

Result

Mode	Result	MAC (ID Length)	ID Limit	Function
GFSK	-	-	-	-
2402MHz_TnomVnom	Pass	48 bits	48 bits	Good
2402MHz_TnomVmin	Pass	48 bits	48 bits	Good
2402MHz_TnomVmax	Pass	48 bits	48 bits	Good
2440MHz_TnomVnom	Pass	48 bits	48 bits	Good
2440MHz_TnomVmin	Pass	48 bits	48 bits	Good
2440MHz_TnomVmax	Pass	48 bits	48 bits	Good
2480MHz_TnomVnom	Pass	48 bits	48 bits	Good
2480MHz_TnomVmin	Pass	48 bits	48 bits	Good
2480MHz_TnomVmax	Pass	48 bits	48 bits	Good

Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (Hz)	Psum (dBm)	Psum (nW)	Limit (dBm)	Limit (nW)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-
GFSK	Pass	1G	12.5G	1M	4.81081G	-62.46	0.56754	-46.99	20

Result

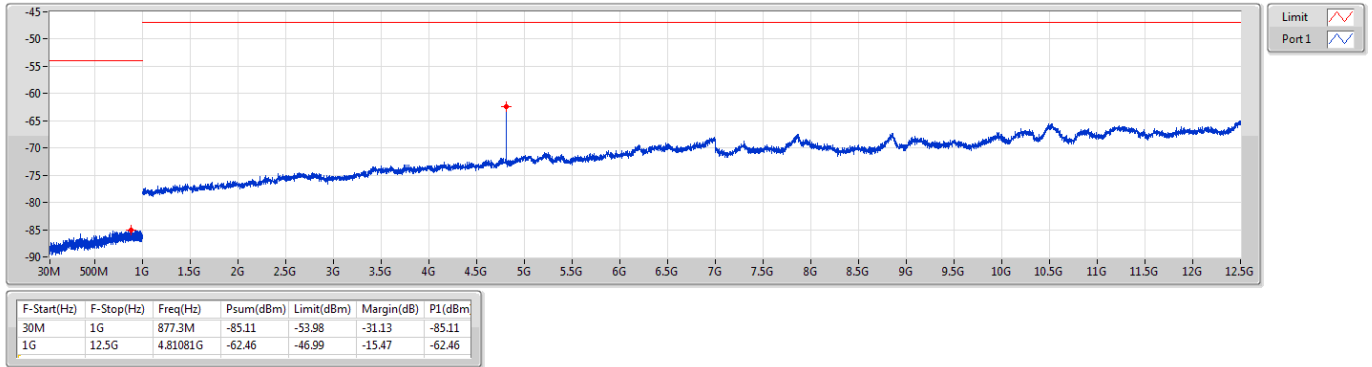
Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (Hz)	Psum (dBm)	Psum (nW)	Limit (dBm)	Limit (nW)
GFSK	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	30M	1G	100k	877.3M	-85.11	0.00308	-53.98	4
2402MHz_TnomVnom	Pass	1G	12.5G	1M	4.81081G	-62.46	0.56754	-46.99	20
2402MHz_TnomVmin	Pass	30M	1G	100k	994.67M	-84.86	0.00327	-53.98	4
2402MHz_TnomVmin	Pass	1G	12.5G	1M	4.81081G	-62.60	0.54954	-46.99	20
2402MHz_TnomVmax	Pass	30M	1G	100k	887.97M	-84.71	0.00338	-53.98	4
2402MHz_TnomVmax	Pass	1G	12.5G	1M	4.81081G	-62.74	0.53211	-46.99	20
2440MHz_TnomVnom	Pass	30M	1G	100k	903.97M	-85.15	0.00305	-53.98	4
2440MHz_TnomVnom	Pass	1G	12.5G	1M	4.81081G	-62.73	0.53333	-46.99	20
2440MHz_TnomVmin	Pass	30M	1G	100k	971.87M	-84.96	0.00319	-53.98	4
2440MHz_TnomVmin	Pass	1G	12.5G	1M	4.81081G	-62.80	0.52481	-46.99	20
2440MHz_TnomVmax	Pass	30M	1G	100k	973.81M	-84.93	0.00321	-53.98	4
2440MHz_TnomVmax	Pass	1G	12.5G	1M	4.81081G	-62.71	0.5358	-46.99	20
2480MHz_TnomVnom	Pass	30M	1G	100k	982.54M	-84.92	0.00322	-53.98	4
2480MHz_TnomVnom	Pass	1G	12.5G	1M	4.81081G	-62.84	0.52	-46.99	20
2480MHz_TnomVmin	Pass	30M	1G	100k	899.61M	-84.64	0.00344	-53.98	4
2480MHz_TnomVmin	Pass	1G	12.5G	1M	4.81081G	-62.76	0.52966	-46.99	20
2480MHz_TnomVmax	Pass	30M	1G	100k	899.61M	-85.00	0.00316	-53.98	4
2480MHz_TnomVmax	Pass	1G	12.5G	1M	4.81081G	-62.75	0.53088	-46.99	20



GFSK

CSE-RX-DTS

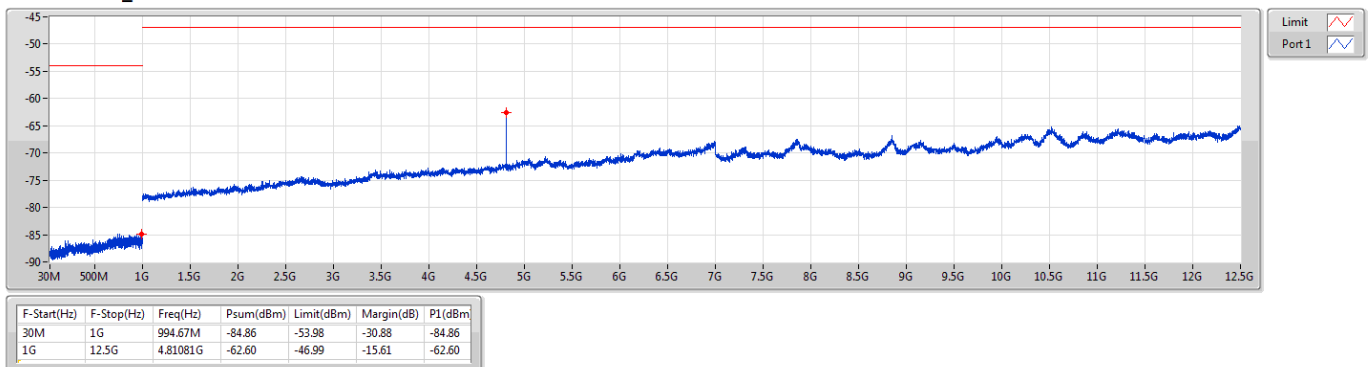
2402MHz_TnomVnom



GFSK

CSE-RX-DTS

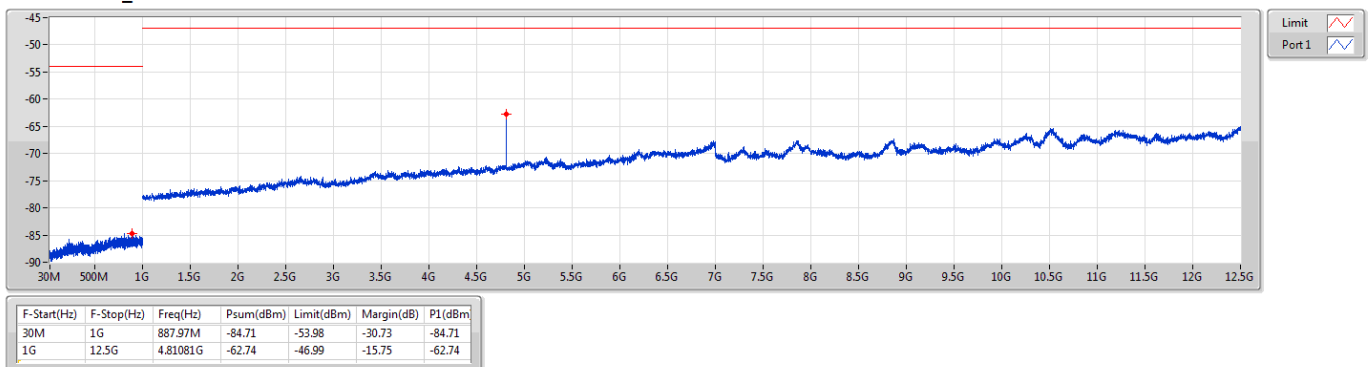
2402MHz_TnomVmin



GFSK

CSE-RX-DTS

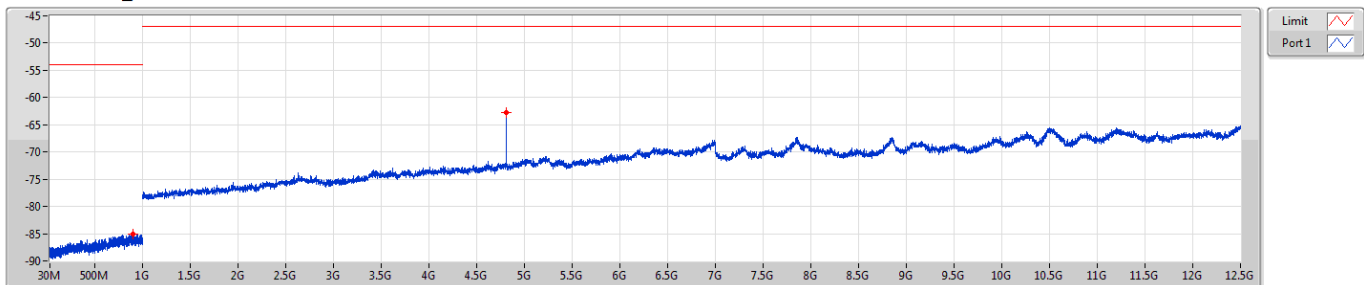
2402MHz_TnomVmax



GFSK

CSE-RX-DTS

2440MHz_TnomVnom

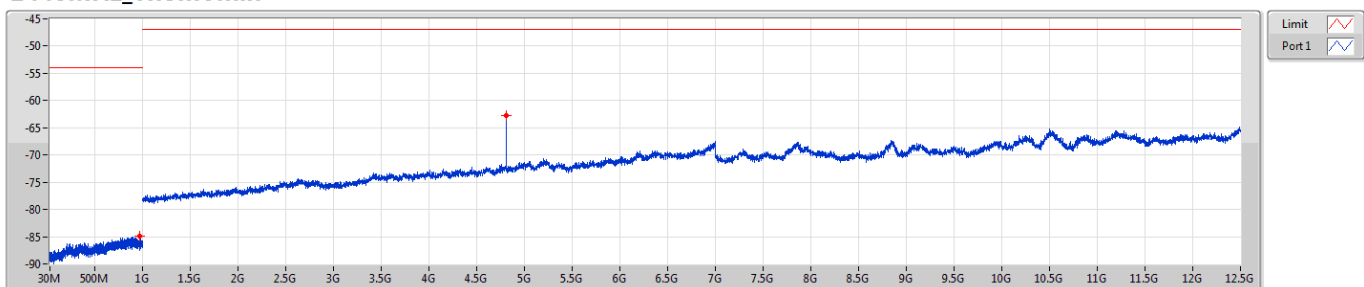


F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	1G	903.97M	-85.15	-53.98	-31.17	-85.15
1G	12.5G	4.81081G	-62.73	-46.99	-15.74	-62.73

GFSK

CSE-RX-DTS

2440MHz_TnomVmin

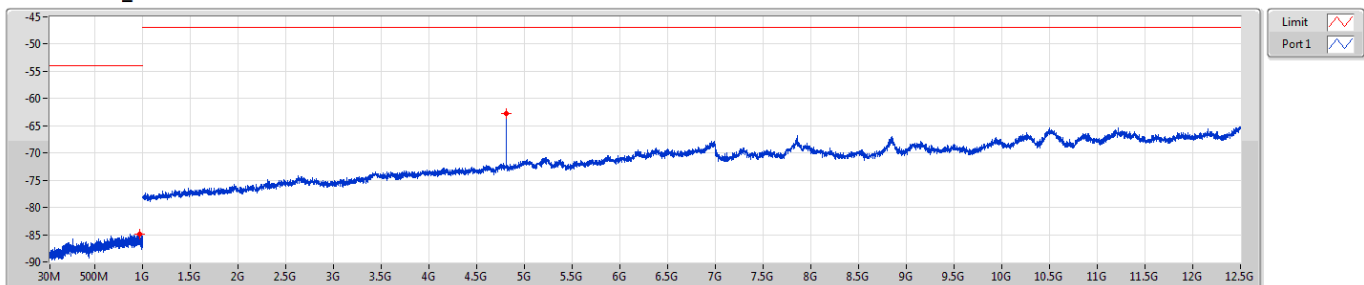


F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	1G	971.87M	-84.96	-53.98	-30.98	-84.96
1G	12.5G	4.81081G	-62.80	-46.99	-15.81	-62.80

GFSK

CSE-RX-DTS

2440MHz_TnomVmax



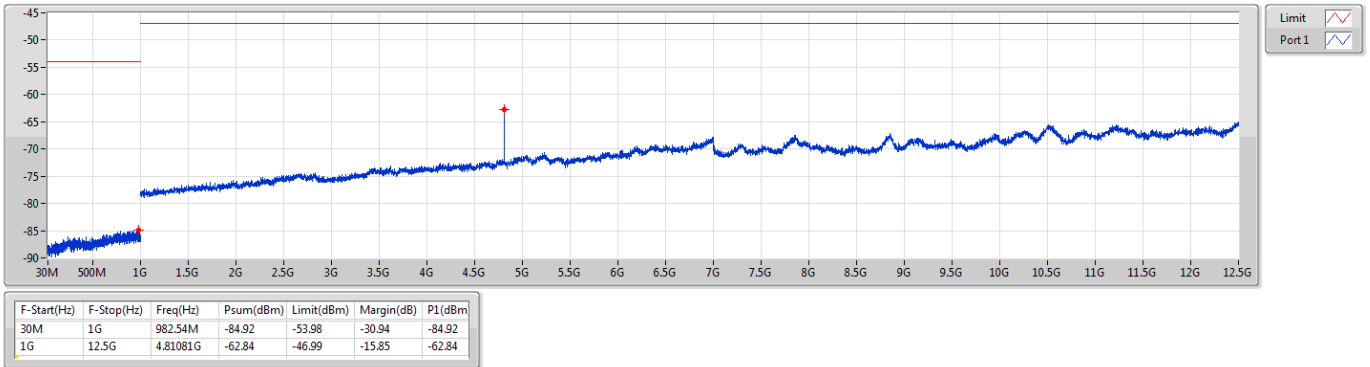
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	1G	973.81M	-84.93	-53.98	-30.95	-84.93
1G	12.5G	4.81081G	-62.71	-46.99	-15.72	-62.71



GFSK

CSE-RX-DTS

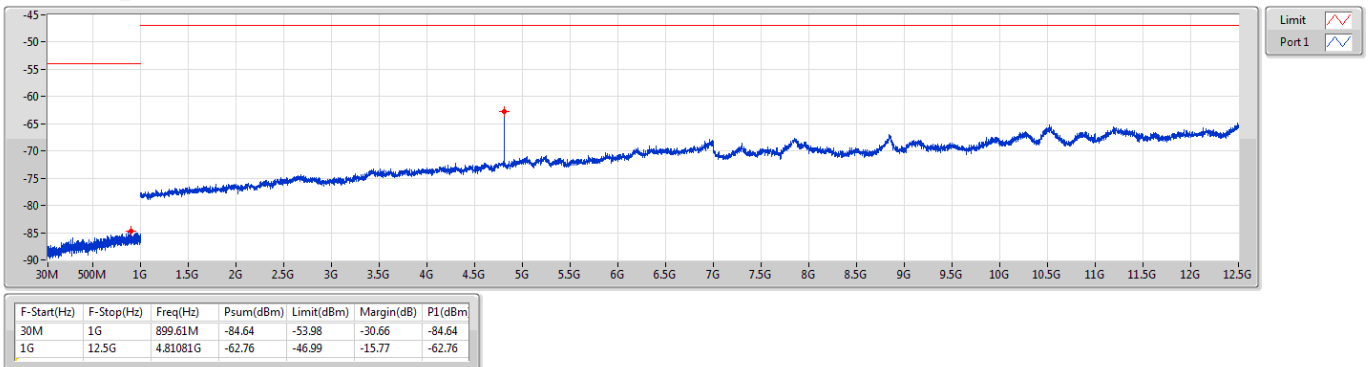
2480MHz_TnomVnom



GFSK

CSE-RX-DTS

2480MHz_TnomVmin



GFSK

CSE-RX-DTS

2480MHz_TnomVmax

