FCC Radio Test Report

FCC ID	:	**TTUBEOPLAYPLPC**
Equipment	:	**Wireless Gaming Headphones**
Brand Name	:	**Bang & Olufsen**
Model Name	:	**Beoplay Portal PC PS**
Applicant	:	**Bang & Olufsen A/S Bang og Olufsen Allé 1, 7600 Struer, Denmark**
Manufacturer	:	**Bang & Olufsen A/S Bang og Olufsen Allé 1, 7600 Struer, Denmark**
Standard	:	**47 CFR FCC Part 15.247**

The product was received on Sep. 29, 2021, and testing was started from Oct. 12, 2021 and completed on Dec. 28, 2021. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.

Jackson Tsai

Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)

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APPENDIX I. TEST PHOTOS

PHOTOGRAPHS OF EUT V01

History of this test report

Report No.	Version	Description	Issued Date
FR191611AD	01	Initial issue of report	Jan. 11, 2022

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	20dB Bandwidth	PASS	-
3.2	15.247(a)	Carrier Frequency Separation	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(a)	Number of Hopping Frequencies and Hopping Bandedge	PASS	-
3.5	15.247(a)	Time of Occupancy (Dwell Time)	PASS	-
3.6	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.7	15.247(d)	Emissions in Restricted Frequency Bands	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:
None

Reviewed by: Sam Tsai

Report Producer: Ann Hou

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Version	Ch. Frequency (MHz)	Channel Number
2400-2483.5	BR / EDR	2402-2480	0-78 [79]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-BR(1Mbps)	1	1TX
2.4-2.4835GHz	BT-EDR(2Mbps)	1	1TX
2.4-2.4835GHz	BT-EDR(3Mbps)	1	1TX

Note:
- Bluetooth BR uses a GFSK (1Mbps).
- Bluetooth EDR uses a combination of π/4-DQPSK (2Mbps) and 8DPSK (3Mbps).
- Bluetooth BR/EDR uses as a system using FHSS modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	B&O	DH2 PS-ANT100	PCB Printed Antenna	N/A	3.5

Note 1: The EUT has one antenna.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 1 (port 1) could transmit/receive.

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From AC Adapter / Host system / Battery			
EUT Function	☒	Point-to-multipoint	☐	Point-to-point
Type of EUT				
☒	Stand-alone			
☐	Combined (EUT where the radio part is fully integrated within another device)			
	Combined Equipment - Brand Name / Model No.:	…		
☐	Plug-in radio (EUT intended for a variety of host systems)			
	Host System - Brand Name / Model No.:	…		
☐	Other:			

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
BT-BR(1Mbps)	0.828	0.82	2.892m	1k
BT-EDR(2Mbps)	0.83	0.81	2.899m	1k
BT-EDR(3Mbps)	0.745	1.28	2.9m	1k

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

1.1.5 Table for Multiple Listing

The samples in the following table are all refer to the identical product.

EUT	Color	Description
Sample 1	Blue	All the Samples are identical. The only difference is the color of enclosure as different sales marketing.
Sample 2	Gray	

1.2 Testing Applied Standards

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

- 47 CFR FCC Part 15
- ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF:

- KDB 558074 D01 v05r02
- KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab.：Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (**TAF:** 3785)	**ADD:** No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		**FAX:** 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	**Test Site No.**	**Test Engineer**	**Test Environment**	**Test Date**
AC Conduction	CO04-HY	Daniel Lin	21.4~22.3°C / 51~54%	17/Nov/2021
RF Conducted	TH01-HY	Barry Hsiao	24~26.9°C / 56~60%	12/Oct/2021~13/Dec/2021
☒ Wen 33rd.St. (**TAF:** 3785)	**ADD:** No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		**FAX:** 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				
Test Condition	**Test Site No.**	**Test Engineer**	**Test Environment**	**Test Date**
Radiated	03CH09-HY	Ryan Hsiao	23.2~24.8°C / 55~61%	11/Nov/2021~14/Dec/2021
Radiated (Co-location)	03CH09-HY	Ryan Hsiao	21.3~24.3°C / 53~57%	28/Dec/2021

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

Test Items	**Uncertainty**	**Remark**
Conducted Emission (150kHz ~ 30MHz)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	BlueTest3

Mode	Power Setting
BT-BR(1Mbps)	-
2402MHz	7
2440MHz	7
2480MHz	7
BT-EDR(2Mbps)	-
2402MHz	7
2440MHz	7
2480MHz	7
BT-EDR(3Mbps)	-
2402MHz	7
2440MHz	7
2480MHz	7

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	Adapter mode
2	USB mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	20dB Bandwidth Carrier Frequency Separation Maximum Conducted Output Power Number of Hopping Frequencies Hopping Bandedge Time of Occupancy (Dwell Time) Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains ☒ Non-adaptive frequency hopping systems (Non-AFH) ☒ adaptive frequency hopping systems (AFH)
Non-AFH Mode configuration was found to be the worst case and measured during the test.	

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	Adapter mode		
2	USB mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	**X Plane**	**Y Plane**	**Z Plane**
Worst Planes of EUT		V	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	Bluetooth+WLAN 2.4GHz SRD
Refer to Sporton Test Report No.: Appendix H for Radiated Emission Co-location.	

2.3 Accessories

Accessories				
Battery	**Brand Name**	Synergy	**Model Name**	AHB723938PCT
	Power Rating	3.7Vdc, 1110mAh	**Type**	Lithium-ion Polymer Battery Pack
C-A Adapter	**Brand Name**	Bang & Olufsen	**Model Name**	ADP100AC
USB Cable	**Brand Name**	Bang & Olufsen	**Model Name**	4021XW01907ZEU
	Power Cord	1.2 meter, D-shielded cable, w/o ferrite core		
Audio Cable	**Brand Name**	Bang & Olufsen	**Model Name**	4021XW01906ZAS
	Power Cord	1.2 meter, non-shielded cable, w/o ferrite core		

Reminder: Regarding to more detail and other information, please refer to user manual.

2.4 Support Equipment

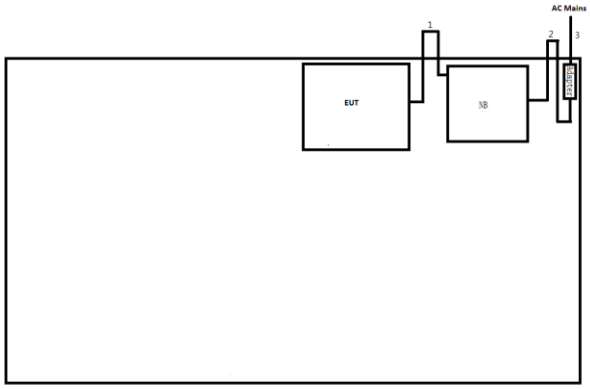
Support Equipment – AC Conduction					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	HP	HSTNN-142C	-	-
2	Adapter	APPLE	A1357	-	For EUT
3	AC Power Cable	Power sync	PW-GPC180-3	-	-
4	Adapter	HP	HSTNN-CA40	-	For NB

Support Equipment – Conducted					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	HP	HSTNN-142C	-	-
2	Adapter for NB	HP	HSTNN-CA40	-	-
3	DC Power Supply	GW	GPS-3030DD	-	-

Support Equipment – Radiated					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	HP	HSTNN-142C	-	-
2	Adapter	APPLE	A1357	-	For EUT
3	AC Power Cable	Power sync	PW-GPC180-3	-	-
4	Adapter	HP	HSTNN-CA40	-	For NB

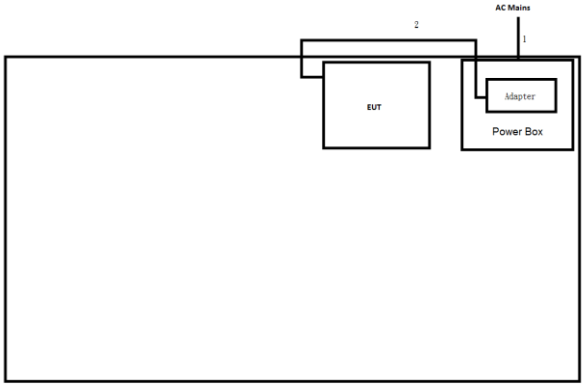
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test (USB mode)



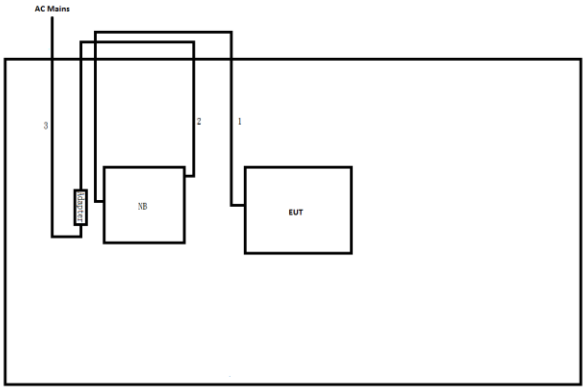
Item	Connection	Shielded	Length(m)
1	USB cable	Yes	1.2
2	DC Power cable	No	1.8
3	AC Power cable	No	1.8

Test Setup Diagram – AC Line Conducted Emission Test (Adapter mode)



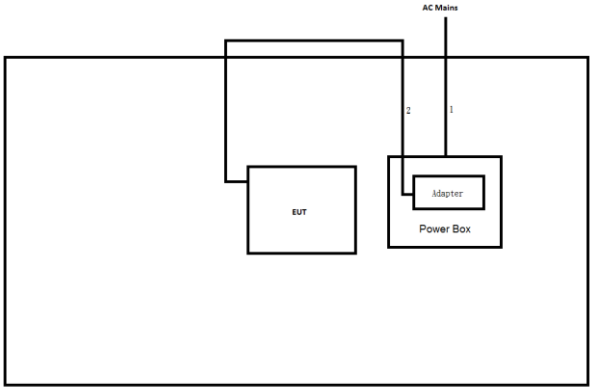
Item	Connection	Shielded	Length(m)
1	AC Power cable	No	1.8
2	USB cable	Yes	1.2

Test Setup Diagram - Radiated Test (USB mode)



Item	Connection	Shielded	Length(m)
1	USB cable	Yes	1.2
2	DC Power cable	No	1.8
3	AC Power cable	No	1.8

Test Setup Diagram - Radiated Test (Adapter mode)



Item	Connection	Shielded	Length(m)
1	AC Power cable	No	1.8
2	USB cable	Yes	1.2

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

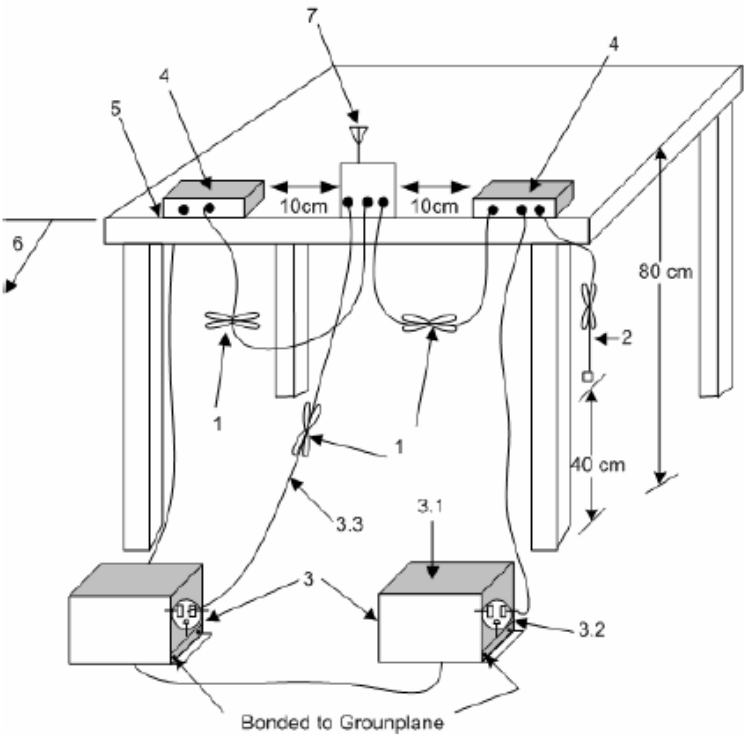
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Raw(Read Level) +LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 20dB Bandwidth and Carrier Frequency Separation

3.2.1 20dB Bandwidth and Carrier Frequency Separation Limit

20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems	
▪ 2400-2483.5 MHz Band:	
	▪ N ≥75 and ChS ≥ MAX (20 dB bandwidth, 25 kHz).
	▪ 75>N ≥ 15 and ChS ≥ MAX (20 dB bandwidth 2/3,25 kHz).
N:Number of Hopping Frequencies; **ChS**: Hopping Channel Separation	

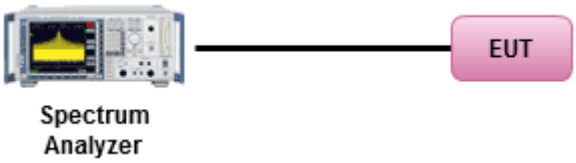
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2013, clause 6.9.2 for 20 dB bandwidth measurement.
▪ Refer as ANSI C63.10-2013, clause 7.8.2 for carrier frequency separation measurement.

3.2.4 Test Setup

20dB Bandwidth and Carrier Frequency Separation


3.2.5 Test Result of 20dB Bandwidth

Refer as Appendix B

3.2.6 Test Result of Carrier Frequency Separation

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
▪ 2400-2483.5 MHz Band:	
	▪ N ≥ 75; Power 30dBm; EIRP 36dBm
	▪ 75 >N ≥ 15; Power 21dBm; EIRP 27dBm
N:Number of Hopping Frequencies	

3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2013, clause 7.8.5 for output power measurement.

3.3.4 Test Setup

Maximum Conducted Output Power (Peak Power Meter)

3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Number of Hopping Frequencies and Hopping Bandedge

3.4.1 Number of Hopping Frequencies Limit

Number of Hopping Frequencies Limit	
▪ 2400-2483.5 MHz Band:	
	▪ N ≥ 75 and ChS ≥ MAX (20 dB bandwidth, 25 kHz).
	▪ 75 >N ≥ 15 and ChS ≥ MAX (20 dB bandwidth 2/3,25 kHz).
N:Number of Hopping Frequencies; **ChS** : Hopping Channel Separation	

3.4.2 Hopping Bandedge Limit

Refer clause 3.6.1 and clause 3.7.1

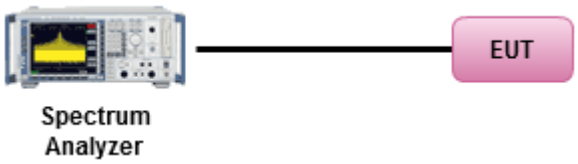
3.4.3 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.4 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2013, clause 7.8.3 for number of hopping frequencies measurement.
▪ Refer as ANSI C63.10-2013, clause 7.8.6 for hopping frequencies Bandedge measurement.

3.4.5 Test Setup

Number of Hopping Frequencies and Hopping Frequencies Bandedge


3.4.6 Test Result of Number of Hopping Frequencies

Refer as Appendix D

3.4.7 Test Result of Number of Hopping Frequencies Bandedge

Refer as Appendix D

3.5 Time of Occupancy (Dwell Time)

3.5.1 Time of Occupancy (Dwell Time) Limit

Time of Occupancy (Dwell Time) Limit for Frequency Hopping Systems	
▪ 2400-2483.5 MHz Band:	
	▪ N ≥ 75; 0.4s in N x 0.4 period
	▪ 75 >N ≥ 15; 0.4s in N x 0.4 period
N:Number of Hopping Frequencies	

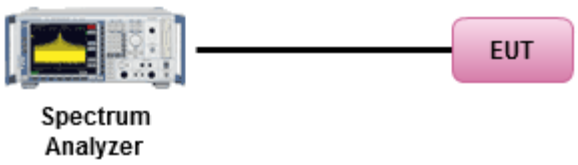
3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
▪ Refer as ANSI C63.10-2013, clause 7.8.4 for dwell time measurement.	
▪ Bluetooth ACL packets can be 1, 3, or 5 time slots. Following as dwell time. Operate DH5 at maximum dwell time and maximum duty cycle.	
	▪ The DH5 packet can cover up to 5 time slots. Operate DH5 at maximum dwell time and maximum duty cycle. A maximum length packet has duration of 5 time slots. The hopping rate is 1600 hops/second so the maximum dwell time is 5/1600 seconds, or 3.125ms.DH5 Packet permit maximum 1600/ 79 / 6 = 3.37 hops per second in each channel.

3.5.4 Test Setup

Time of Occupancy (Dwell Time)


3.5.5 Test Result of Time of Occupancy (Dwell Time)

Refer as Appendix E

3.6 Emissions in Non-restricted Frequency Bands

3.6.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	**Limit (dB)**
Peak output power procedure	20
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.	

3.6.2 Measuring Instruments

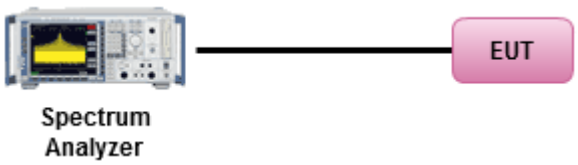
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2013, clause 7.8.8 for unwanted emissions into non-restricted bands.

3.6.4 Test Setup

Emissions in Non-restricted Frequency Bands



3.6.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix F

3.7 Emissions in Restricted Frequency Bands

3.7.1 Emissions in Restricted Frequency Bands Limit

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: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB / decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

3.7.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

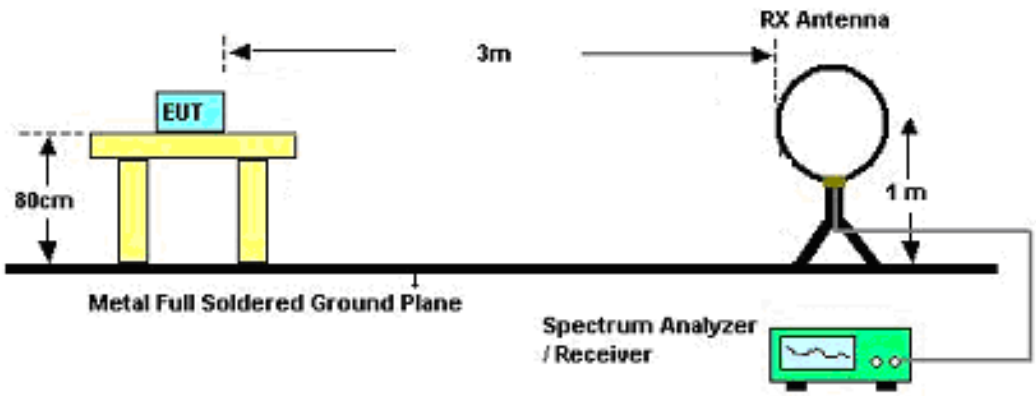
3.7.3 Test Procedures

Test Method	
▪ The average emission levels shall be measured in [hopping duty factor].	
▪ Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
▪ For the transmitter unwanted emissions shall be measured using following options below:	
	▪ Refer as ANSI C63.10, clause 4.1.4.2.1 QP value.
	▪ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.
	▪ Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions.
▪	KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
	▪ Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	▪ Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

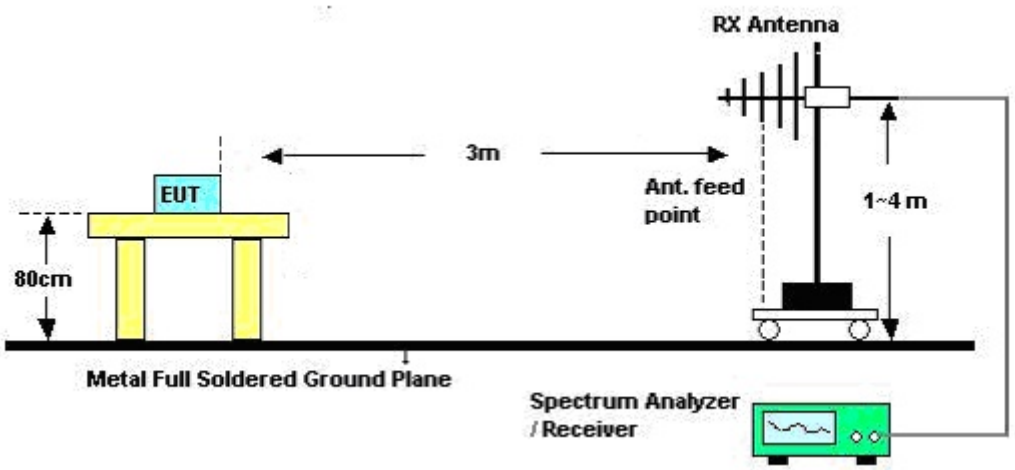
3.7.4 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

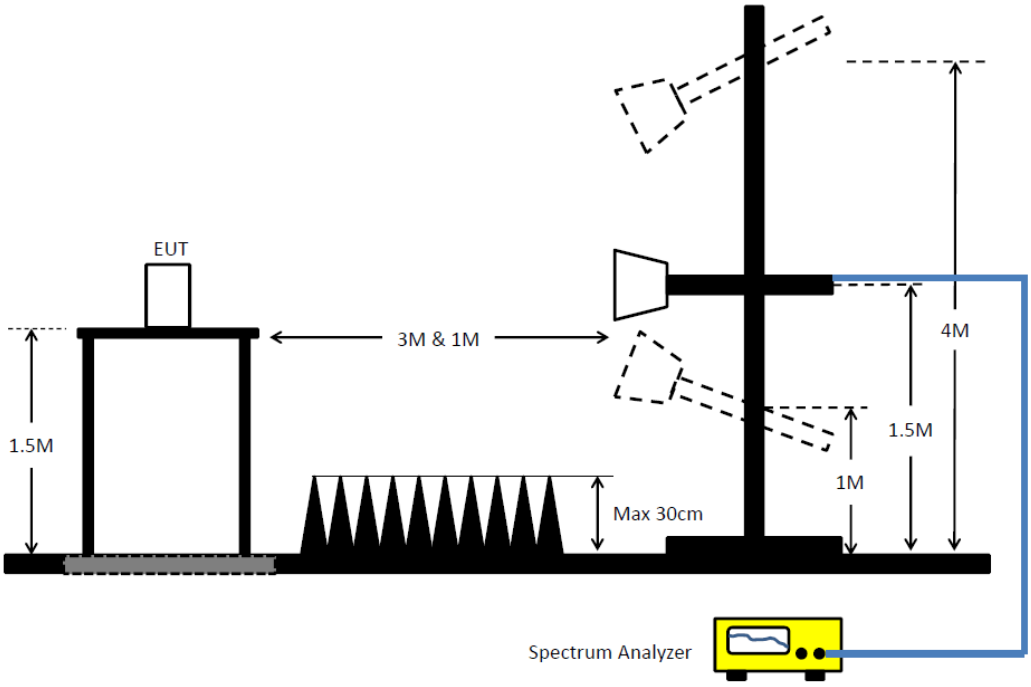
3.7.5 Test Setup

Emissions in Restricted Frequency Bands
9kHz ~30MHz


30MHz~1GHz



Above 1GHz



3.7.6 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

3.7.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix G

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	21/May/2021	20/May/2022
LISN	R&S	ENV216	100003	9kHz ~ 30MHz	15/Dec/2020	14/Dec/2021
RF Cable 5m	TITAN	TITAN	CO04-cable-01	0.1MHz~200MHz	03/Mar/2021	02/Mar/2022
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	15/Sep/2021	14/Sep/2022

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	30/Mar/2021	29/Mar/2022
Signal Generator	R&S	SMB100A	181239	100kHz~40GHz	30/Dec/2020	29/Dec/2021
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	25/Mar/2021	24/Mar/2022
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	25/Mar/2021	24/Mar/2022

Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	26/Mar/2021	25/Mar/2022
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	18/Mar/2021	17/Mar/2022
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	13/Aug/2021	12/Aug/2022
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	12/Apr/2021	11/Apr/2022
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	23/Jul/2021	22/Jul/2022
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MT J6102-05	35418 & 3	30MHz~1GHz	04/Sep/2021	03/Sep/2022
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	18/May/2021	17/May/2022
RF Cable-low	Jye Bao	RG142	CB031+324530/4	9kHz~30MHz	30/Aug/2021	29/Aug/2022
RF Cable-low	Jye Bao	RG142	CB031+324530/4	30MHz~1GHz	09/Feb/2021	08/Feb/2022
RF CABLE 5m+3m+1m	HUBER+SUHNER	SUCOFLEX104	CB009	1GHz~40GHz	13/Aug/2021	12/Aug/2022
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	11/Mar/2021	10/Mar/2022
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	09/Mar/2021	08/Mar/2022
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2021	15/Mar/2022
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	19/Apr/2021	18/Apr/2022

Summary

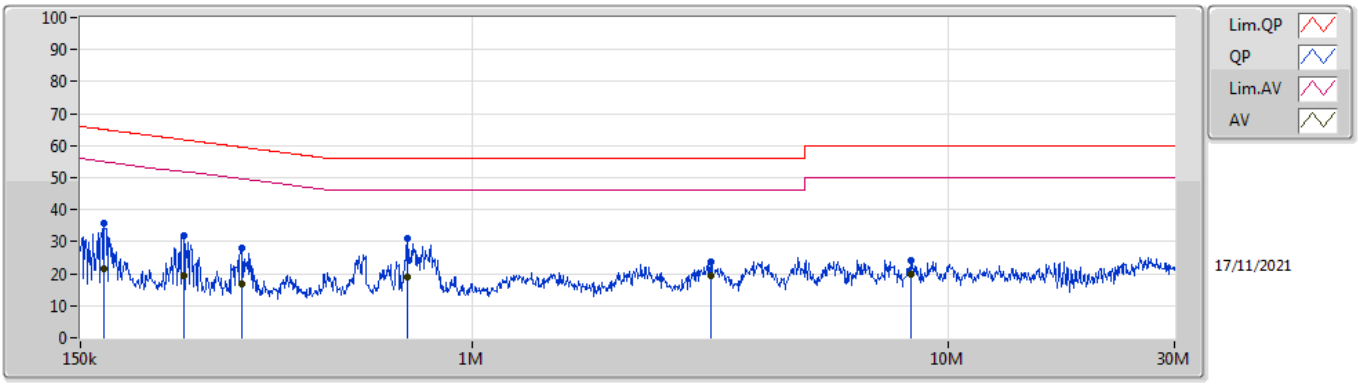
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	802.141k	25.81	46.00	-20.19	Neutral
Mode 2	Pass	QP	157.99k	50.22	65.56	-15.34	Line

Mode Configure

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	168.41k	35.64	65.04	-29.40	Line	-
Mode 1	Pass	AV	168.41k	21.42	55.04	-33.62	Line	-
Mode 1	Pass	QP	247.062k	31.95	61.85	-29.90	Line	-
Mode 1	Pass	AV	247.062k	19.60	51.85	-32.25	Line	-
Mode 1	Pass	QP	326.712k	28.09	59.54	-31.45	Line	-
Mode 1	Pass	AV	326.712k	17.00	49.54	-32.54	Line	-
Mode 1	Pass	QP	728.856k	31.15	56.00	-24.85	Line	-
Mode 1	Pass	AV	728.856k	18.86	46.00	-27.14	Line	-
Mode 1	Pass	QP	3.18M	23.85	56.00	-32.15	Line	-
Mode 1	Pass	AV	3.18M	19.46	46.00	-26.54	Line	-
Mode 1	Pass	QP	8.388M	24.18	60.00	-35.82	Line	-
Mode 1	Pass	AV	8.388M	20.01	50.00	-29.99	Line	-
Mode 1	Pass	QP	162.467k	35.88	65.33	-29.45	Neutral	-
Mode 1	Pass	AV	162.467k	22.00	55.33	-33.33	Neutral	-
Mode 1	Pass	QP	242.179k	30.38	62.02	-31.64	Neutral	-
Mode 1	Pass	AV	242.179k	19.59	52.02	-32.43	Neutral	-
Mode 1	Pass	QP	330.648k	27.60	59.44	-31.84	Neutral	-
Mode 1	Pass	AV	330.648k	19.37	49.44	-30.07	Neutral	-
Mode 1	Pass	QP	802.141k	33.33	56.00	-22.67	Neutral	-
Mode 1	Pass	AV	802.141k	25.81	46.00	-20.19	Neutral	-
Mode 1	Pass	QP	4.105M	24.76	56.00	-31.24	Neutral	-
Mode 1	Pass	AV	4.105M	20.59	46.00	-25.41	Neutral	-
Mode 1	Pass	QP	17.346M	26.41	60.00	-33.59	Neutral	-
Mode 1	Pass	AV	17.346M	21.87	50.00	-28.13	Neutral	-
Mode 2	Pass	QP	157.99k	50.22	65.56	-15.34	Line	-
Mode 2	Pass	AV	157.99k	34.28	55.56	-21.28	Line	-
Mode 2	Pass	QP	178.091k	46.67	64.57	-17.90	Line	-
Mode 2	Pass	AV	178.091k	29.80	54.57	-24.77	Line	-
Mode 2	Pass	QP	210.599k	42.01	63.19	-21.18	Line	-
Mode 2	Pass	AV	210.599k	24.87	53.19	-28.32	Line	-
Mode 2	Pass	QP	485.068k	30.95	56.25	-25.30	Line	-
Mode 2	Pass	AV	485.068k	26.16	46.25	-20.09	Line	-
Mode 2	Pass	QP	3.715M	25.68	56.00	-30.32	Line	-
Mode 2	Pass	AV	3.715M	19.47	46.00	-26.53	Line	-
Mode 2	Pass	QP	11.919M	24.26	60.00	-35.74	Line	-
Mode 2	Pass	AV	11.919M	20.47	50.00	-29.53	Line	-
Mode 2	Pass	QP	154.868k	50.30	65.73	-15.43	Neutral	-
Mode 2	Pass	AV	154.868k	33.29	55.73	-22.44	Neutral	-
Mode 2	Pass	QP	167.071k	48.45	65.10	-16.65	Neutral	-
Mode 2	Pass	AV	167.071k	31.05	55.10	-24.05	Neutral	-
Mode 2	Pass	QP	183.137k	46.11	64.34	-18.23	Neutral	-
Mode 2	Pass	AV	183.137k	29.79	54.34	-24.55	Neutral	-
Mode 2	Pass	QP	460.537k	28.94	56.69	-27.75	Neutral	-

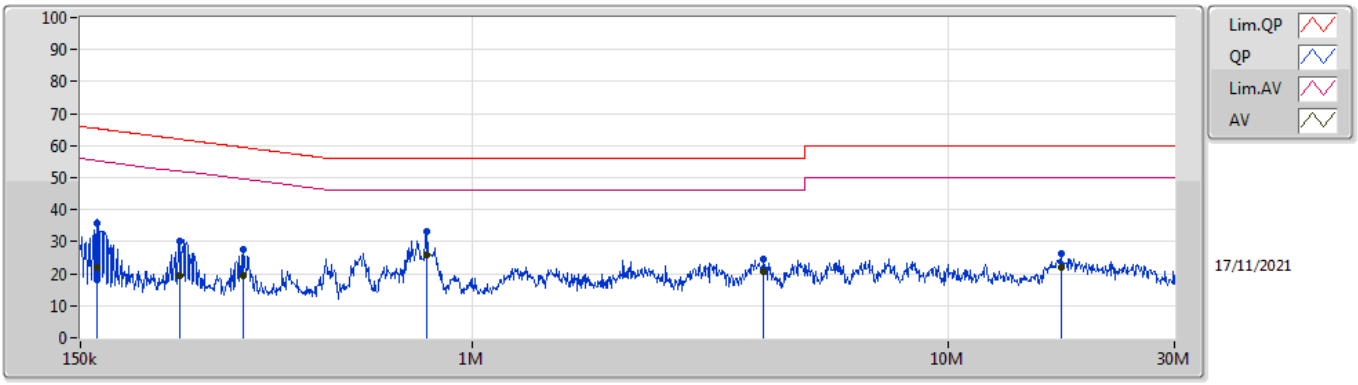
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 2	Pass	AV	460.537k	22.53	46.69	-24.16	Neutral	-
Mode 2	Pass	QP	1.135M	22.88	56.00	-33.12	Neutral	-
Mode 2	Pass	AV	1.135M	20.07	46.00	-25.93	Neutral	-
Mode 2	Pass	QP	7.294M	27.78	60.00	-32.22	Neutral	-
Mode 2	Pass	AV	7.294M	23.55	50.00	-26.45	Neutral	-

Conducted Emissions at Powerline_Mode 1



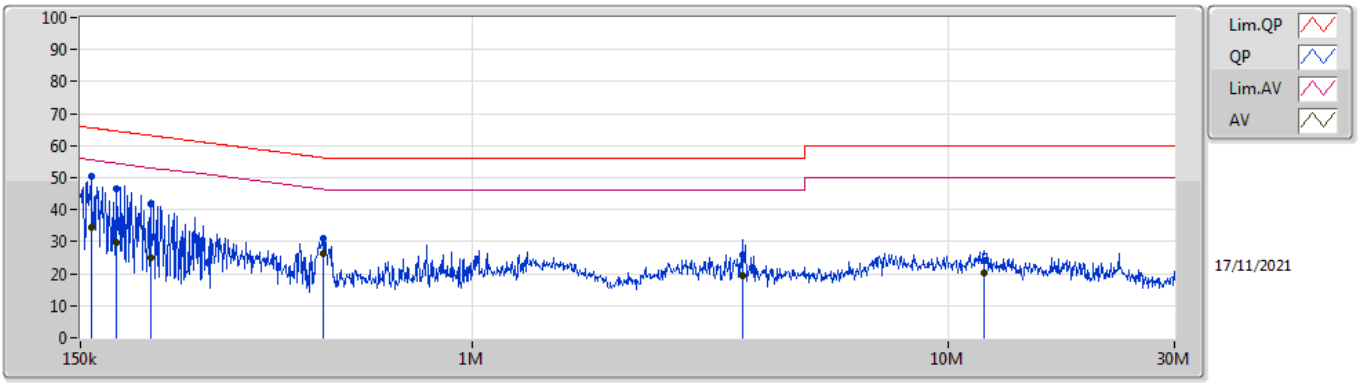
Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	168.41k	35.64	65.04	-29.40	19.64	Line	-	16.00	9.69	0.04	9.91
AV	168.41k	21.42	55.04	-33.62	19.64	Line	-	1.78	9.69	0.04	9.91
QP	247.062k	31.95	61.85	-29.90	19.64	Line	-	12.31	9.68	0.05	9.91
AV	247.062k	19.60	51.85	-32.25	19.64	Line	-	-0.04	9.68	0.05	9.91
QP	326.712k	28.09	59.54	-31.45	19.63	Line	-	8.46	9.67	0.05	9.91
AV	326.712k	17.00	49.54	-32.54	19.63	Line	-	-2.63	9.67	0.05	9.91
QP	728.856k	31.15	56.00	-24.85	19.67	Line	-	11.48	9.68	0.07	9.92
AV	728.856k	18.86	46.00	-27.14	19.67	Line	-	-0.81	9.68	0.07	9.92
QP	3.18M	23.85	56.00	-32.15	19.75	Line	-	4.10	9.70	0.13	9.92
AV	3.18M	19.46	46.00	-26.54	19.75	Line	-	-0.29	9.70	0.13	9.92
QP	8.388M	24.18	60.00	-35.82	19.89	Line	-	4.29	9.77	0.19	9.93
AV	8.388M	20.01	50.00	-29.99	19.89	Line	-	0.12	9.77	0.19	9.93

Conducted Emissions at Powerline_Mode 1



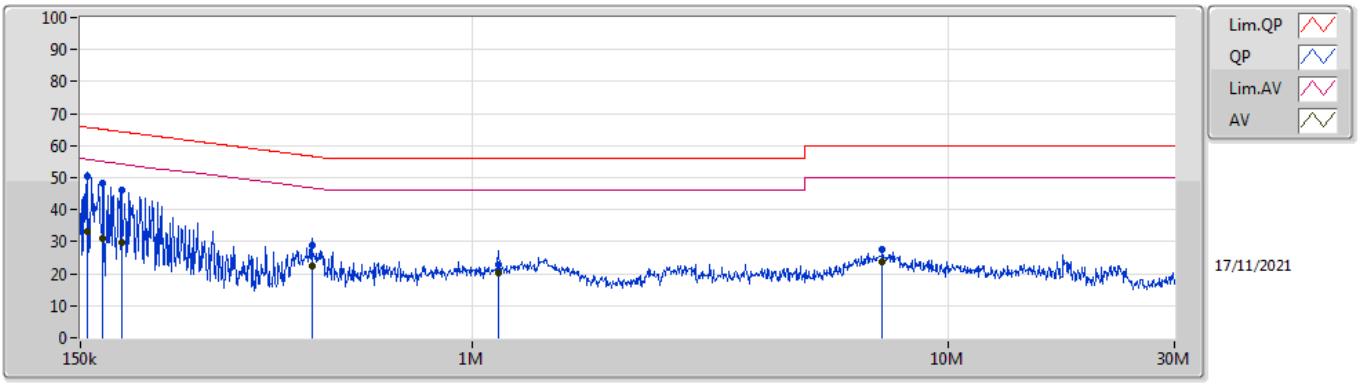
Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	162.467k	35.88	65.33	-29.45	19.64	Neutral	-	16.24	9.69	0.04	9.91
AV	162.467k	22.00	55.33	-33.33	19.64	Neutral	-	2.36	9.69	0.04	9.91
QP	242.179k	30.38	62.02	-31.64	19.64	Neutral	-	10.74	9.68	0.05	9.91
AV	242.179k	19.59	52.02	-32.43	19.64	Neutral	-	-0.05	9.68	0.05	9.91
QP	330.648k	27.60	59.44	-31.84	19.63	Neutral	-	7.97	9.67	0.05	9.91
AV	330.648k	19.37	49.44	-30.07	19.63	Neutral	-	-0.26	9.67	0.05	9.91
QP	802.141k	33.33	56.00	-22.67	19.67	Neutral	-	13.66	9.67	0.08	9.92
AV	802.141k	25.81	46.00	-20.19	19.67	Neutral	-	6.14	9.67	0.08	9.92
QP	4.105M	24.76	56.00	-31.24	19.76	Neutral	-	5.00	9.70	0.14	9.92
AV	4.105M	20.59	46.00	-25.41	19.76	Neutral	-	0.83	9.70	0.14	9.92
QP	17.346M	26.41	60.00	-33.59	20.11	Neutral	-	6.30	9.90	0.28	9.93
AV	17.346M	21.87	50.00	-28.13	20.11	Neutral	-	1.76	9.90	0.28	9.93

Conducted Emissions at Powerline_Mode 2



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	157.99k	50.22	65.56	-15.34	19.64	Line	-	30.58	9.69	0.04	9.91
AV	157.99k	34.28	55.56	-21.28	19.64	Line	-	14.64	9.69	0.04	9.91
QP	178.091k	46.67	64.57	-17.90	19.63	Line	-	27.04	9.68	0.04	9.91
AV	178.091k	29.80	54.57	-24.77	19.63	Line	-	10.17	9.68	0.04	9.91
QP	210.599k	42.01	63.19	-21.18	19.63	Line	-	22.38	9.68	0.04	9.91
AV	210.599k	24.87	53.19	-28.32	19.63	Line	-	5.24	9.68	0.04	9.91
QP	485.068k	30.95	56.25	-25.30	19.64	Line	-	11.31	9.67	0.06	9.91
AV	485.068k	26.16	46.25	-20.09	19.64	Line	-	6.52	9.67	0.06	9.91
QP	3.715M	25.68	56.00	-30.32	19.76	Line	-	5.92	9.70	0.14	9.92
AV	3.715M	19.47	46.00	-26.53	19.76	Line	-	-0.29	9.70	0.14	9.92
QP	11.919M	24.26	60.00	-35.74	19.94	Line	-	4.32	9.79	0.22	9.93
AV	11.919M	20.47	50.00	-29.53	19.94	Line	-	0.53	9.79	0.22	9.93

Conducted Emissions at Powerline_Mode 2



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	154.868k	50.30	65.73	-15.43	19.64	Neutral	-	30.66	9.69	0.04	9.91
AV	154.868k	33.29	55.73	-22.44	19.64	Neutral	-	13.65	9.69	0.04	9.91
QP	167.071k	48.45	65.10	-16.65	19.64	Neutral	-	28.81	9.69	0.04	9.91
AV	167.071k	31.05	55.10	-24.05	19.64	Neutral	-	11.41	9.69	0.04	9.91
QP	183.137k	46.11	64.34	-18.23	19.63	Neutral	-	26.48	9.68	0.04	9.91
AV	183.137k	29.79	54.34	-24.55	19.63	Neutral	-	10.16	9.68	0.04	9.91
QP	460.537k	28.94	56.69	-27.75	19.64	Neutral	-	9.30	9.67	0.06	9.91
AV	460.537k	22.53	46.69	-24.16	19.64	Neutral	-	2.89	9.67	0.06	9.91
QP	1.135M	22.88	56.00	-33.12	19.67	Neutral	-	3.21	9.67	0.08	9.92
AV	1.135M	20.07	46.00	-25.93	19.67	Neutral	-	0.40	9.67	0.08	9.92
QP	7.294M	27.78	60.00	-32.22	19.89	Neutral	-	7.89	9.78	0.18	9.93
AV	7.294M	23.55	50.00	-26.45	19.89	Neutral	-	3.66	9.78	0.18	9.93

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)	938.75k	887.056k	887KF1D	936.25k	880.81k
BT-EDR(2Mbps)	1.328M	1.219M	1M22G1D	1.326M	1.211M
BT-EDR(3Mbps)	1.326M	1.219M	1M22G1D	1.324M	1.213M

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

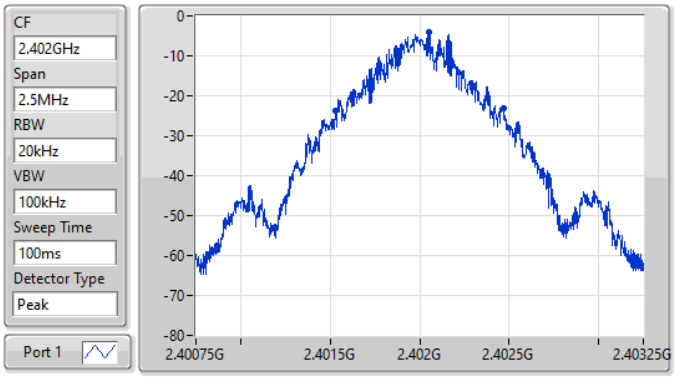
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	936.25k	887.056k
2440MHz	Pass	Inf	938.75k	880.81k
2480MHz	Pass	Inf	936.25k	880.81k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.326M	1.211M
2440MHz	Pass	Inf	1.326M	1.219M
2480MHz	Pass	Inf	1.328M	1.219M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.326M	1.213M
2440MHz	Pass	Inf	1.324M	1.219M
2480MHz	Pass	Inf	1.325M	1.219M

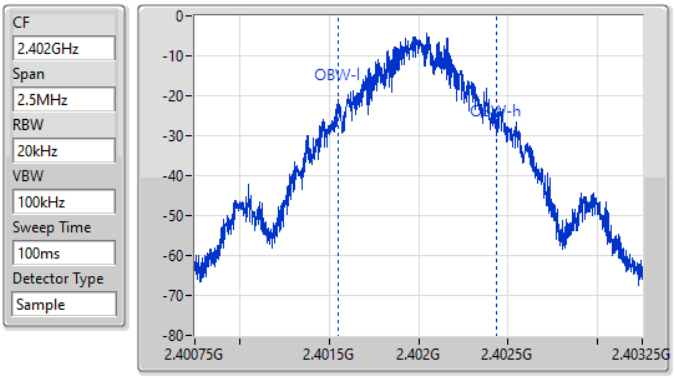
Port X-N dB = Port X 20dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

BT-BR(1Mbps) EBW-FS

2402MHz

01/11/2021



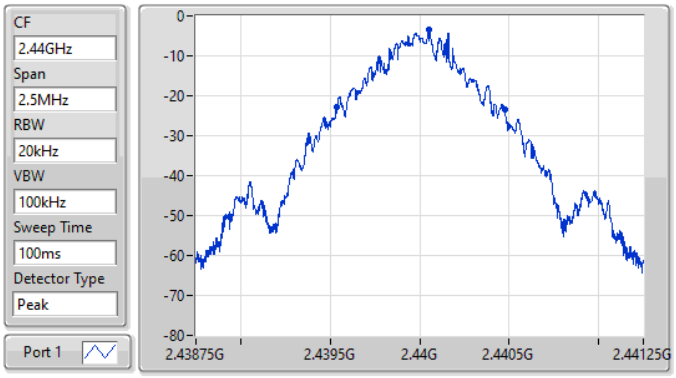


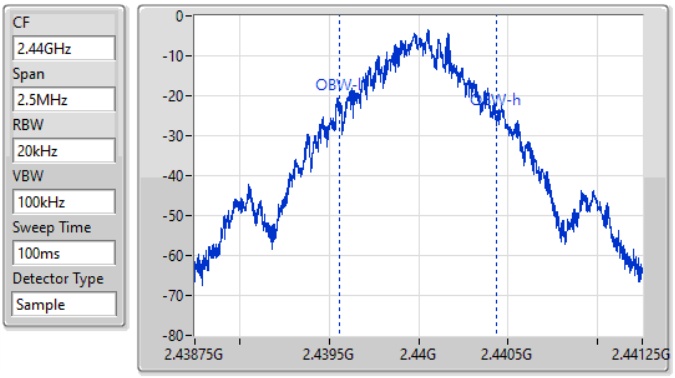
20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
936.25k	2.401533G	2.402469G	887.056k	2.40155G	2.402437G	Inf	1

BT-BR(1Mbps) EBW-FS

2440MHz

01/11/2021



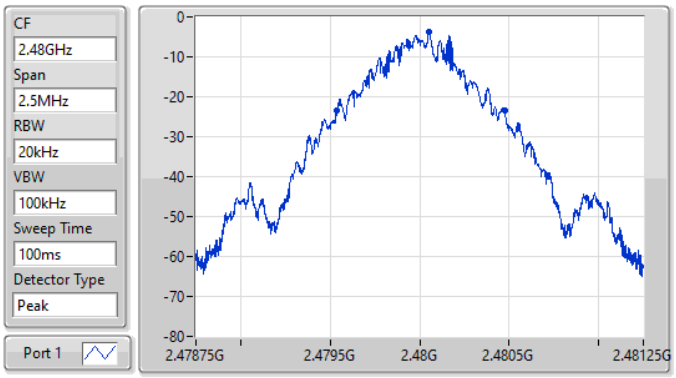


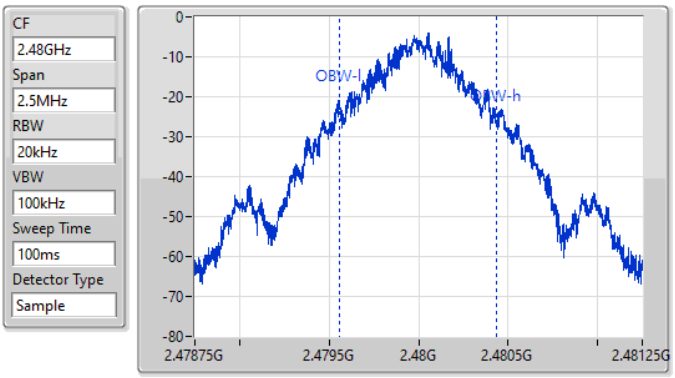
20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
938.75k	2.439536G	2.440475G	880.81k	2.439555G	2.440436G	Inf	1

BT-BR(1Mbps) EBW-FS

2480MHz

01/11/2021



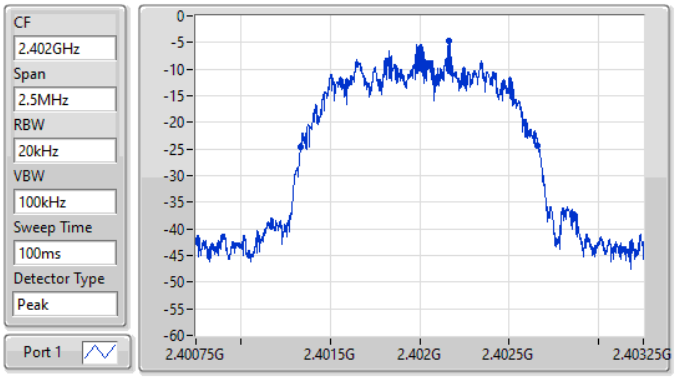


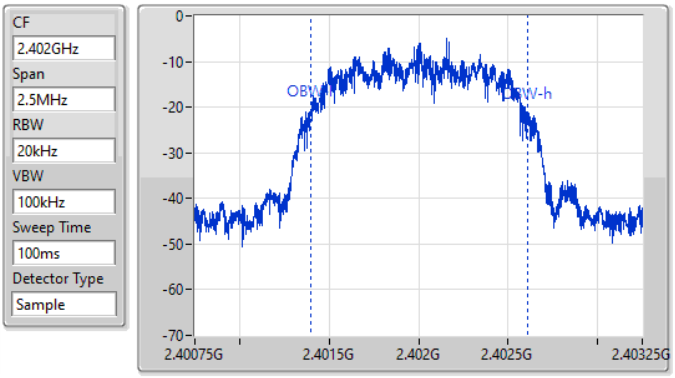
20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
936.25k	2.479538G	2.480474G	880.81k	2.479555G	2.480436G	Inf	1

BT-EDR(2Mbps) EBW-FS

2402MHz

01/11/2021



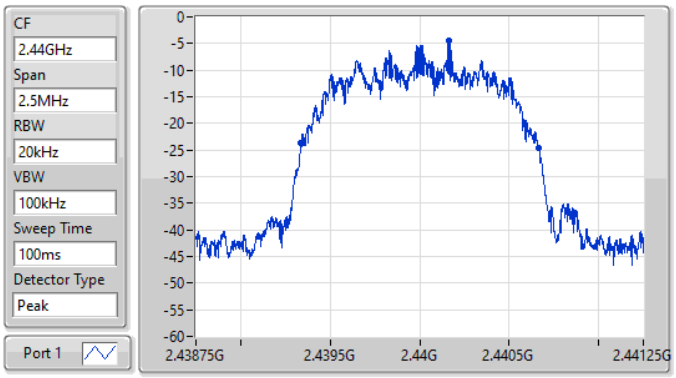


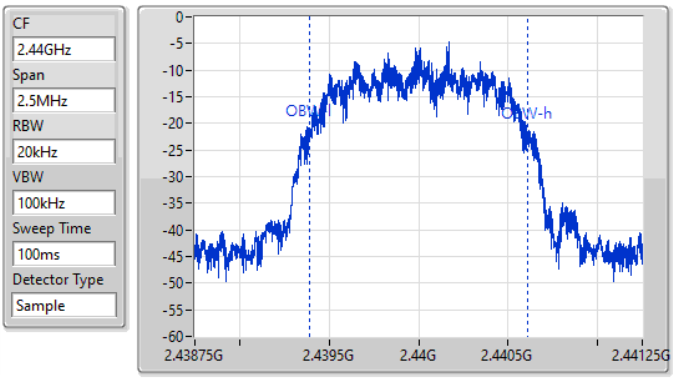
20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.326M	2.401335G	2.402661G	1.211M	2.401395G	2.402606G	Inf	1

BT-EDR(2Mbps) EBW-FS

2440MHz

01/11/2021



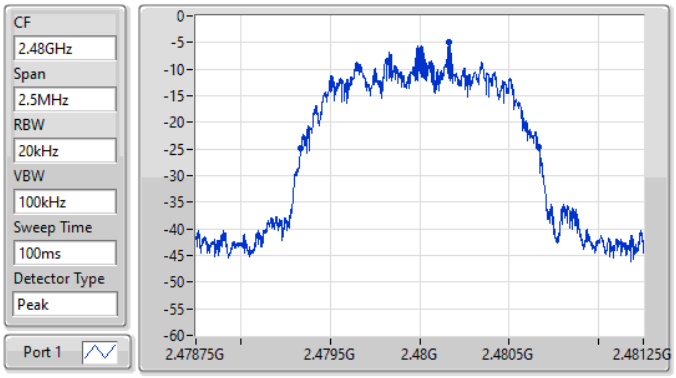


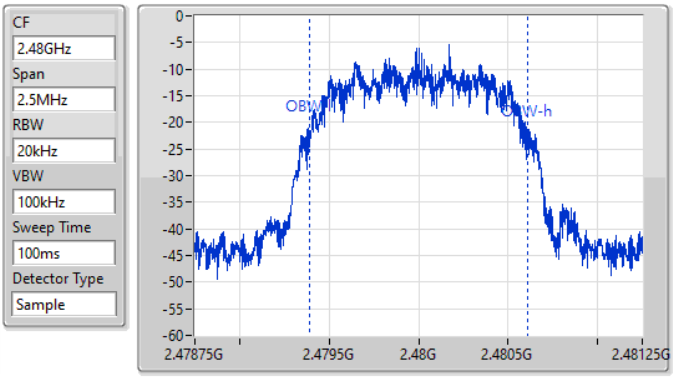
20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.326M	2.439338G	2.440664G	1.219M	2.43939G	2.44061G	Inf	1

BT-EDR(2Mbps) EBW-FS

2480MHz

01/11/2021



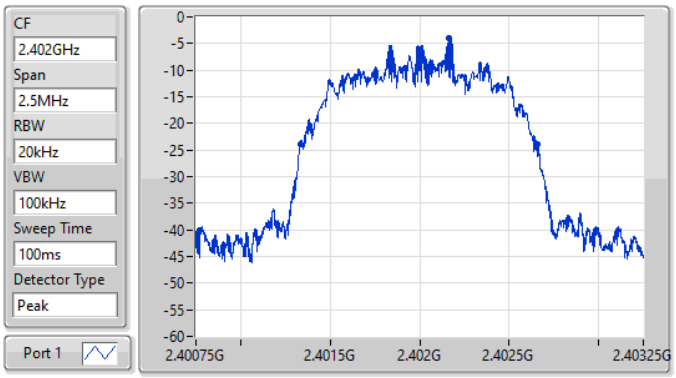


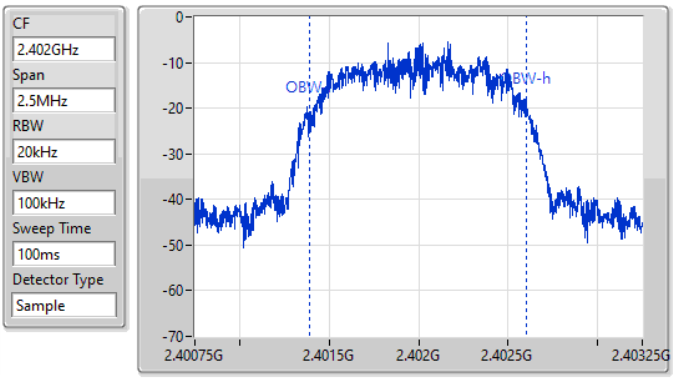
20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.328M	2.479336G	2.480664G	1.219M	2.47939G	2.48061G	Inf	1

BT-EDR(3Mbps) EBW-FS

2402MHz

01/11/2021



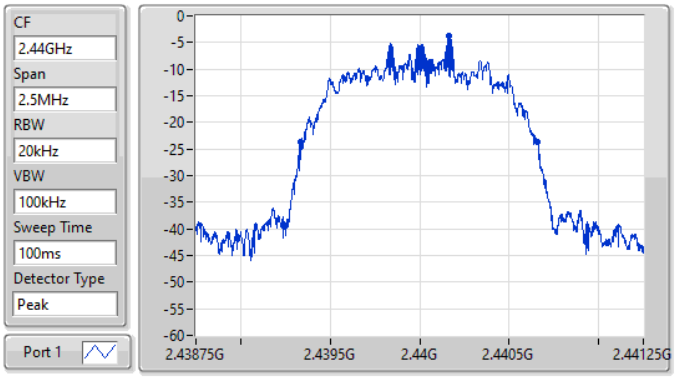


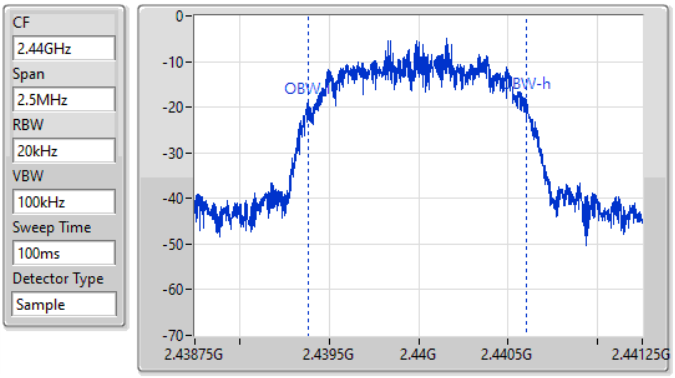
20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.326M	2.401333G	2.402659G	1.213M	2.40139G	2.402603G	Inf	1

BT-EDR(3Mbps) EBW-FS

2440MHz

01/11/2021



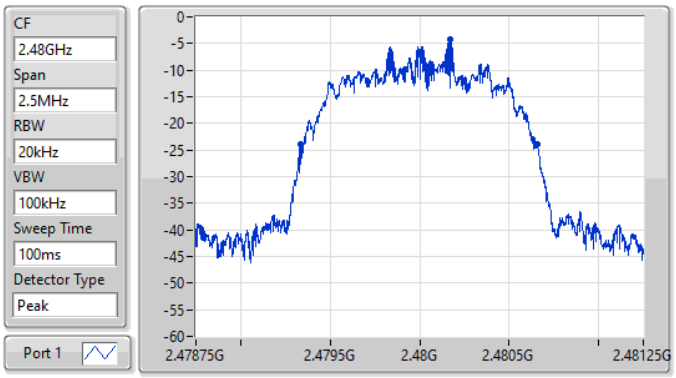


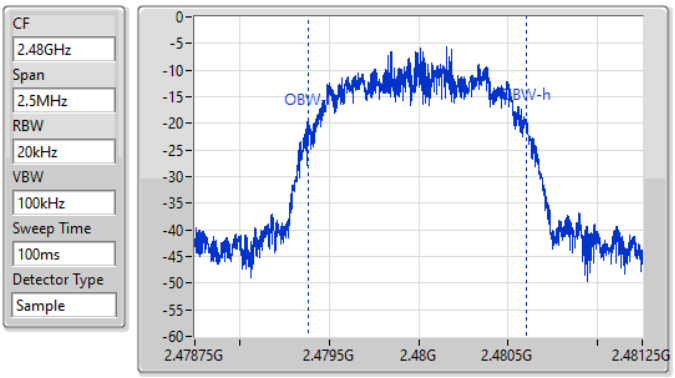
20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.324M	2.439333G	2.440656G	1.219M	2.439385G	2.440605G	Inf	1

BT-EDR(3Mbps) **EBW-FS**

2480MHz

01/11/2021





20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.325M	2.479333G	2.480658G	1.219M	2.479385G	2.480605G	Inf	1

Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.002M	922.5k
BT-EDR(2Mbps)	1.002M	1.0005M
BT-EDR(3Mbps)	1.002M	999k

Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.402158G	2.40316G	1.002M	623.5425k
2440MHz	Pass	2.440161G	2.441162G	1.0005M	625.2075k
2480MHz	Pass	2.479056G	2.479979G	922.5k	623.5425k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.402004G	2.403004G	1.0005M	883.116k
2440MHz	Pass	2.440004G	2.441006G	1.002M	883.116k
2480MHz	Pass	2.479008G	2.480009G	1.0005M	884.448k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402164G	2.403166G	1.002M	883.116k
2440MHz	Pass	2.440167G	2.441166G	999k	881.784k
2480MHz	Pass	2.479164G	2.480166G	1.002M	882.45k

BT-BR(1Mbps) Channel Separation-FS

2.402G/2.403GHz

01/11/2021

Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402158G	2.40316G	1.002M	623.5425k

BT-BR(1Mbps) Channel Separation-FS

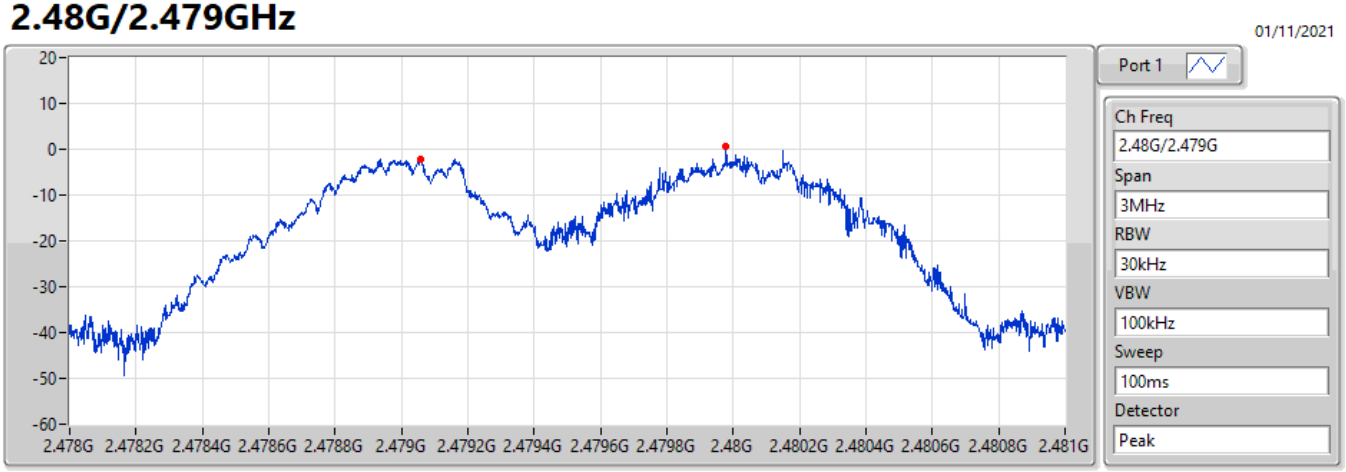
2.44G/2.441GHz

01/11/2021

Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440161G	2.441162G	1.0005M	625.2075k

BT-BR(1Mbps) Channel Separation-FS

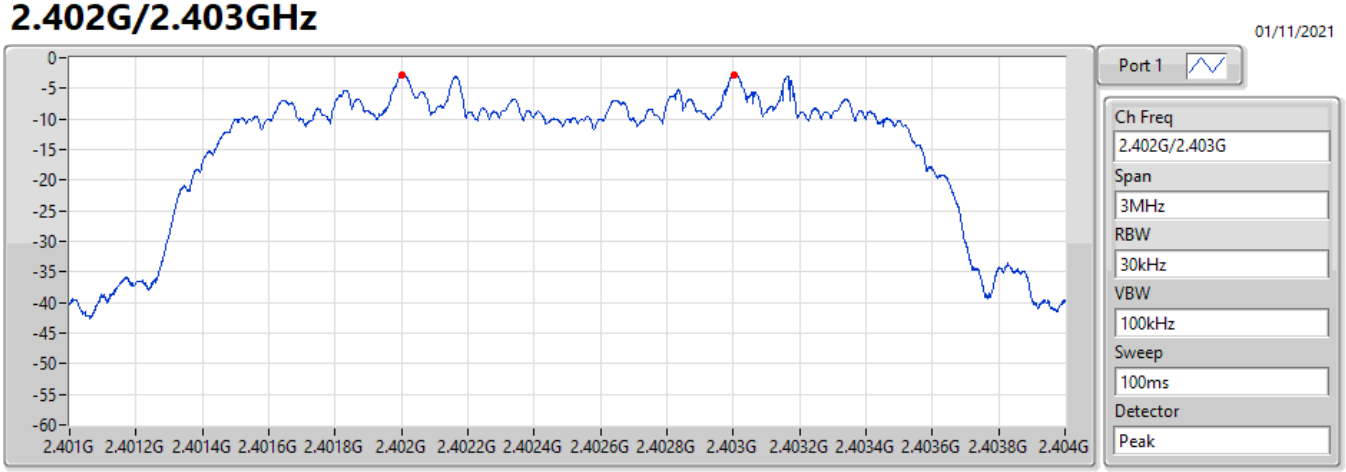
2.48G/2.479GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479056G	2.479979G	922.5k	623.5425k

BT-EDR(2Mbps) Channel Separation-FS

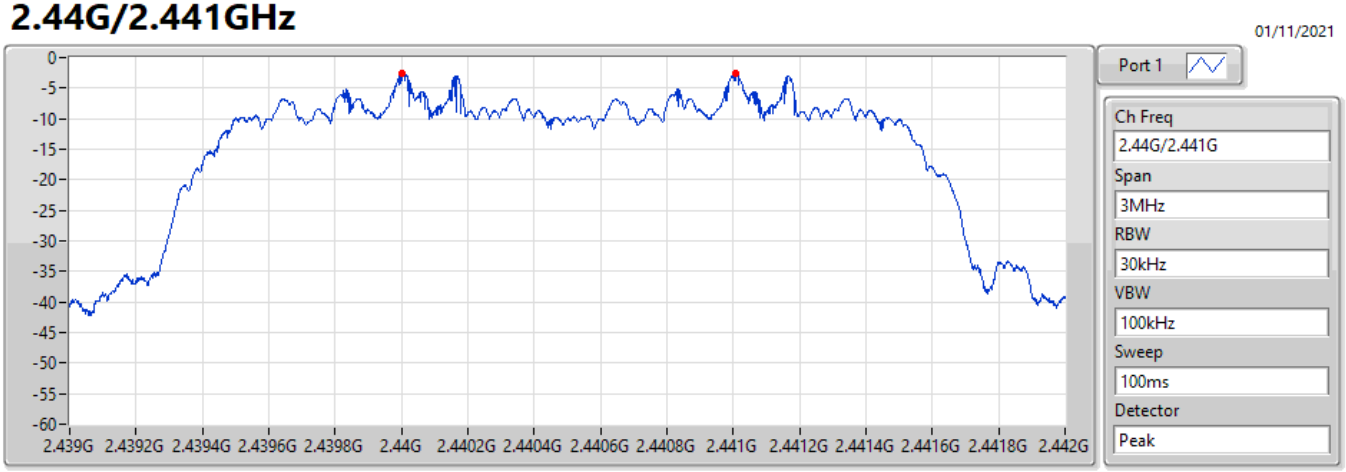
2.402G/2.403GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402004G	2.403004G	1.0005M	883.116k

BT-EDR(2Mbps) Channel Separation-FS

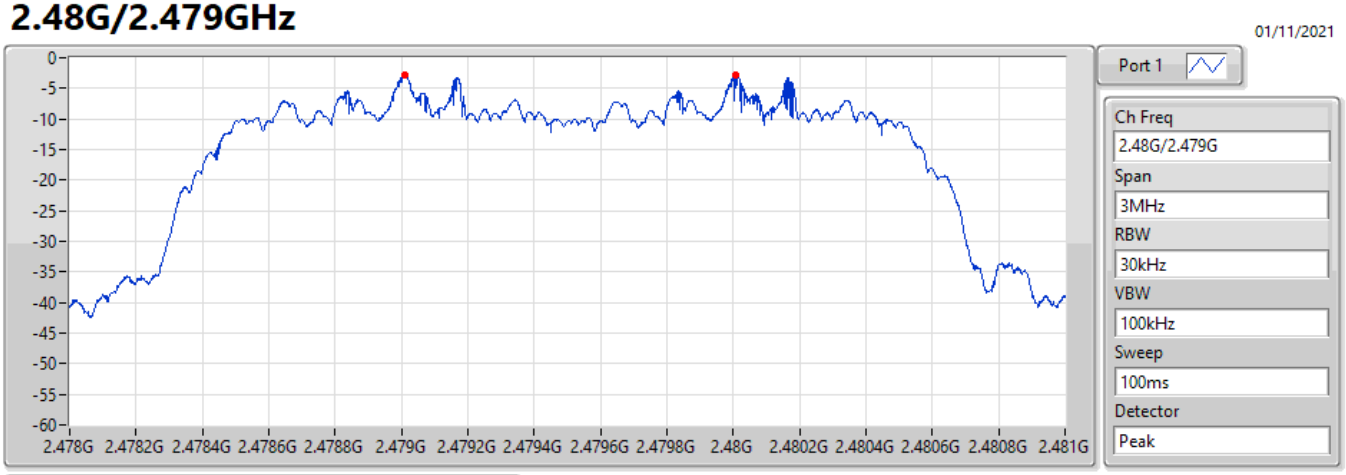
2.44G/2.441GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440004G	2.441006G	1.002M	883.116k

BT-EDR(2Mbps) Channel Separation-FS

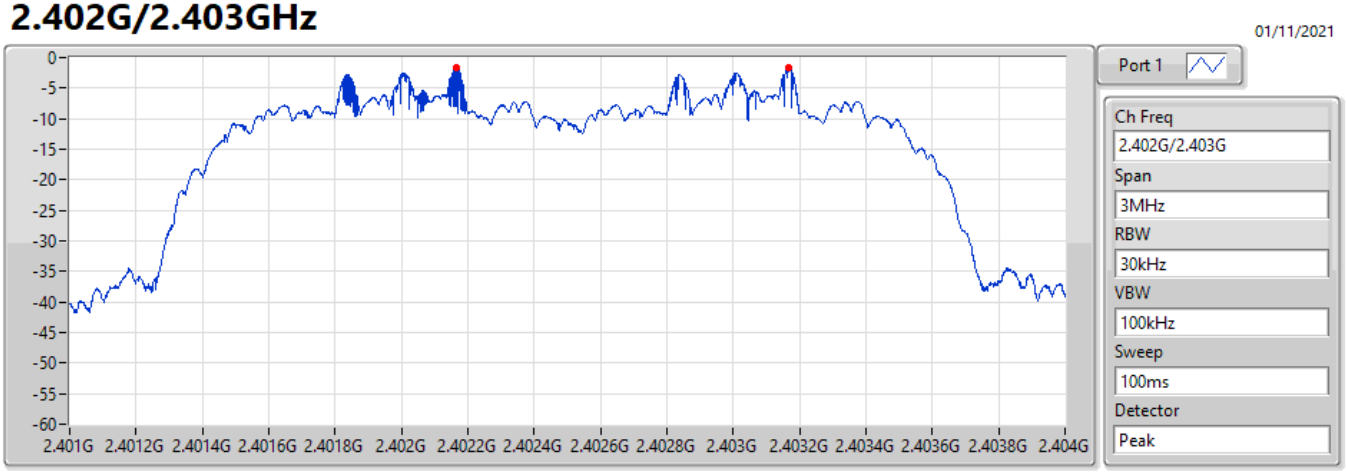
2.48G/2.479GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479008G	2.480009G	1.0005M	884.448k

BT-EDR(3Mbps) Channel Separation-FS

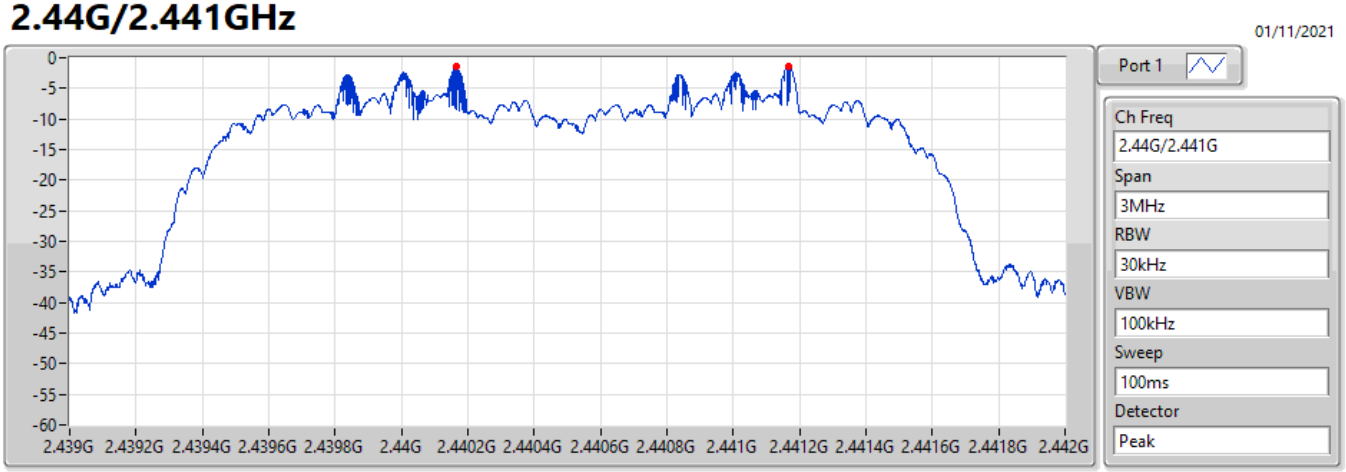
2.402G/2.403GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402164G	2.403166G	1.002M	883.116k

BT-EDR(3Mbps) Channel Separation-FS

2.44G/2.441GHz

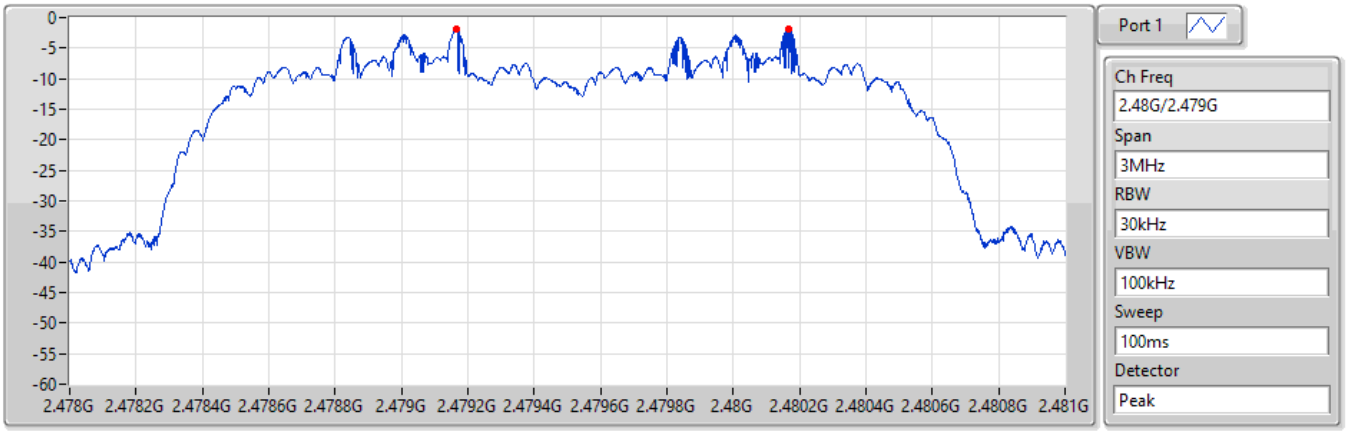


Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440167G	2.441166G	999k	881.784k

BT-EDR(3Mbps) **Channel Separation-FS**

2.48G/2.479GHz

01/11/2021



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479164G	2.480166G	1.002M	882.45k

Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	0.61	0.00115
BT-EDR(2Mbps)	2.54	0.00179
BT-EDR(3Mbps)	2.62	0.00183

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	3.50	0.61	21.00
2440MHz	Pass	3.50	0.36	21.00
2480MHz	Pass	3.50	0.09	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	3.50	2.54	21.00
2440MHz	Pass	3.50	2.32	21.00
2480MHz	Pass	3.50	1.96	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	3.50	2.62	21.00
2440MHz	Pass	3.50	2.33	21.00
2480MHz	Pass	3.50	1.98	21.00

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

Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	-0.29	0.00094
BT-EDR(2Mbps)	-0.32	0.00093
BT-EDR(3Mbps)	-0.47	0.00090

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	3.50	-0.29	21.00
2440MHz	Pass	3.50	-0.64	21.00
2480MHz	Pass	3.50	-0.95	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	3.50	-0.32	21.00
2440MHz	Pass	3.50	-0.67	21.00
2480MHz	Pass	3.50	-0.99	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	3.50	-0.47	21.00
2440MHz	Pass	3.50	-0.69	21.00
2480MHz	Pass	3.50	-1.09	21.00

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

Summary

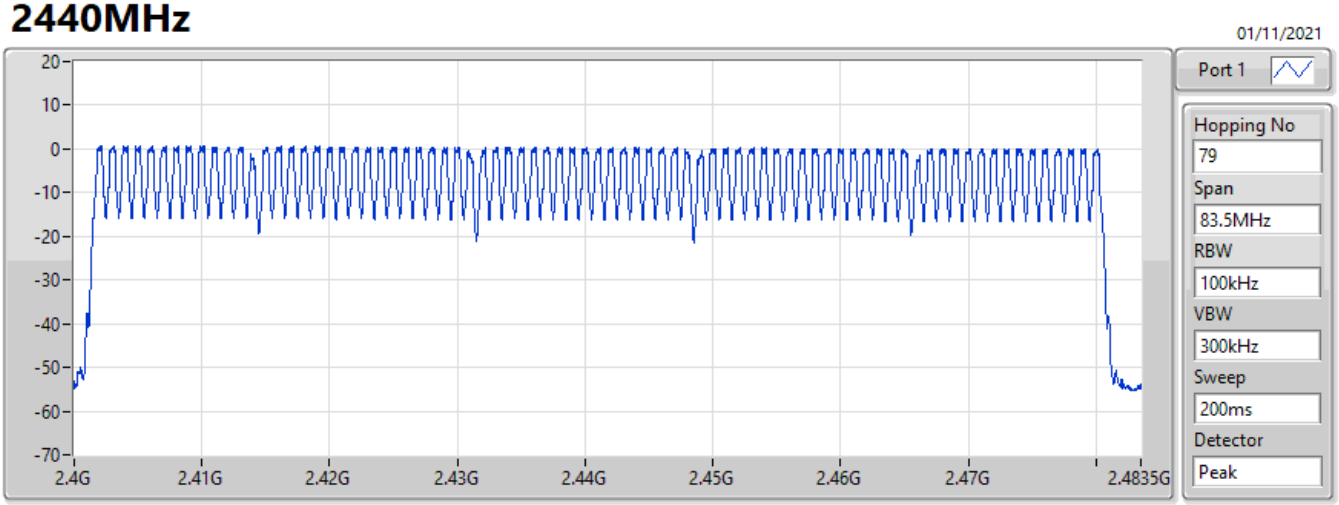
Mode	Max-Hop No
2.4-2.4835GHz	-
BT-BR(1Mbps)	79
BT-EDR(2Mbps)	79
BT-EDR(3Mbps)	79

Result

Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2440MHz	Pass	79	15

BT-BR(1Mbps) Hopping-FS

2440MHz

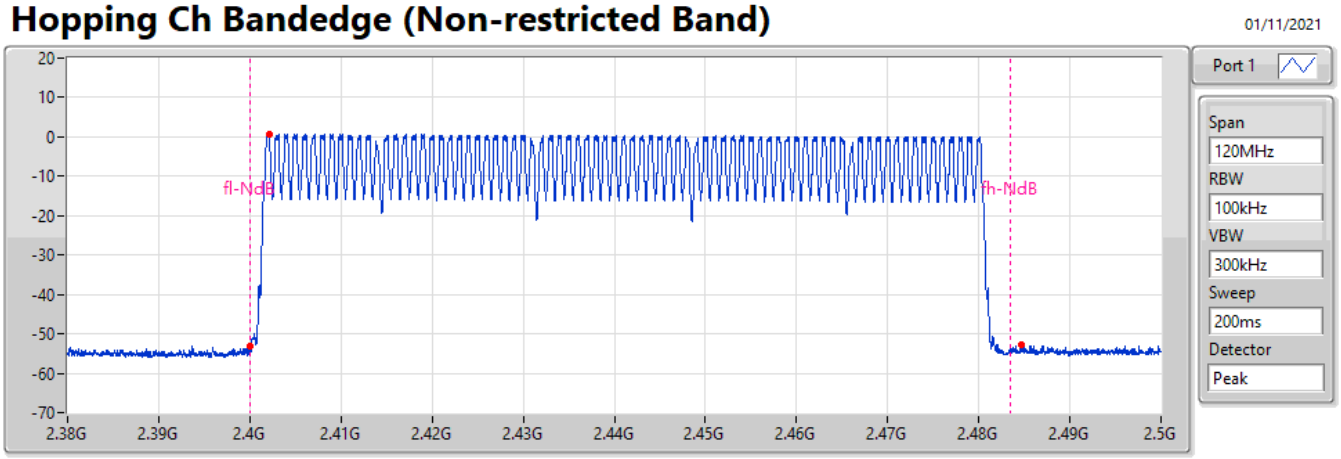


Hopping No	Limit
79	15

BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)



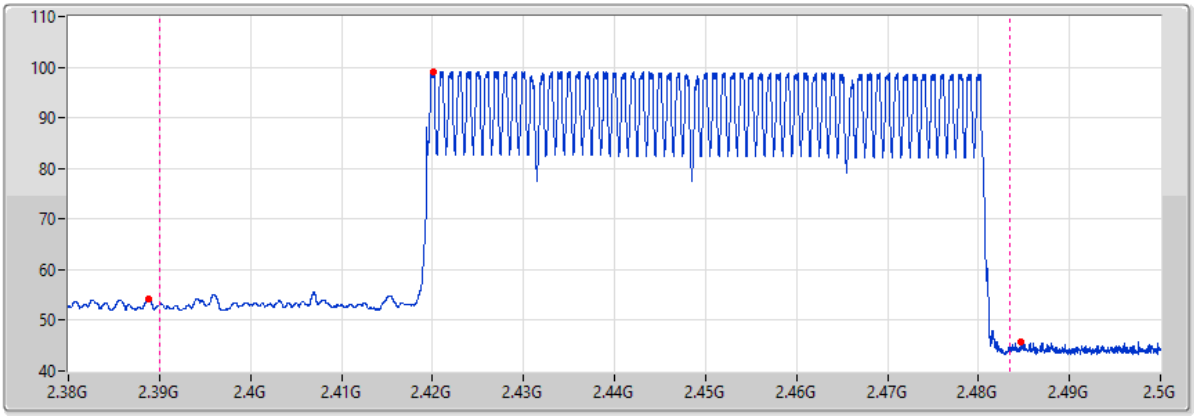
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-19.34	2.402155G	0.66	2.399995G	-53.11	2.48464G	-52.92

BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

01/11/2021



Span 120MHz
RBW 1MHz
VBW 3MHz
Sweep 200ms
Detector Peak

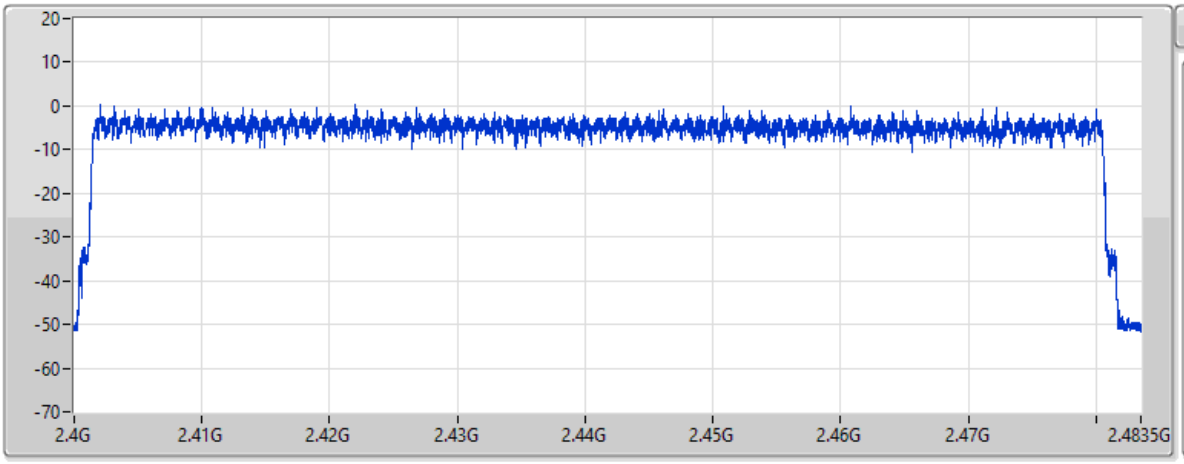
Ref(Hz)	Ref(dBuV/m)	BE-l(Hz)	PK(dBuV/m)	AV(dBuV/m)	BE-h(Hz)	PK(dBuV/m)	AV(dBuV/m)	LimPK(dBuV/	LimAV(dBuV/	Tx On(ms)	DCF(dB)
2.420155G	99.17	2.38879G	54.09	23.99	2.48464G	45.78	15.68	74	54	3.125	-30.1

BT-EDR(2Mbps)

Hopping-FS

2440MHz

01/11/2021



Port 1

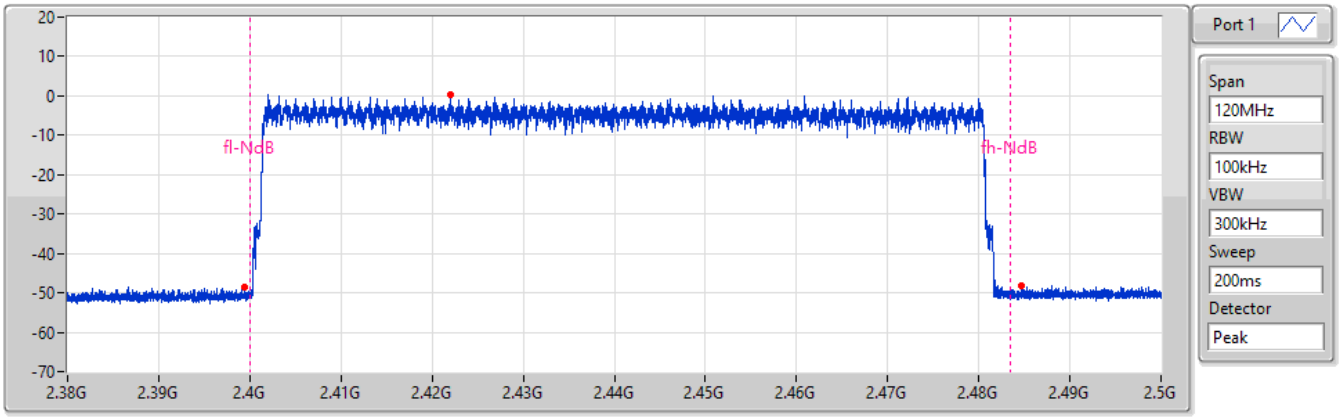
Hopping No 79
Span 83.5MHz
RBW 100kHz
VBW 300kHz
Sweep 200ms
Detector Peak

Hopping No	Limit
79	15

BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

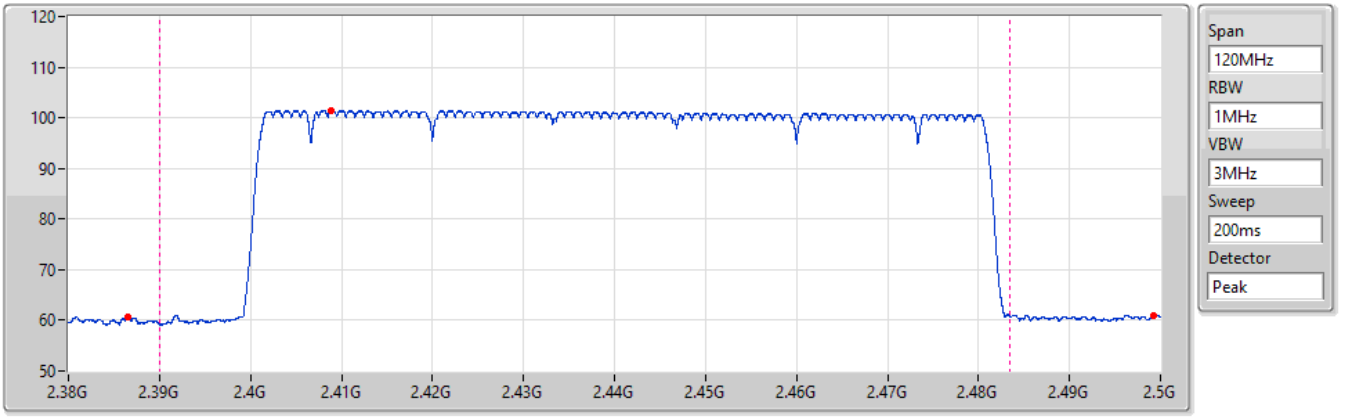


Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-19.63	2.422G	0.37	2.399425G	-48.71	2.484655G	-48.16

BT-EDR(2Mbps)

2440MHz

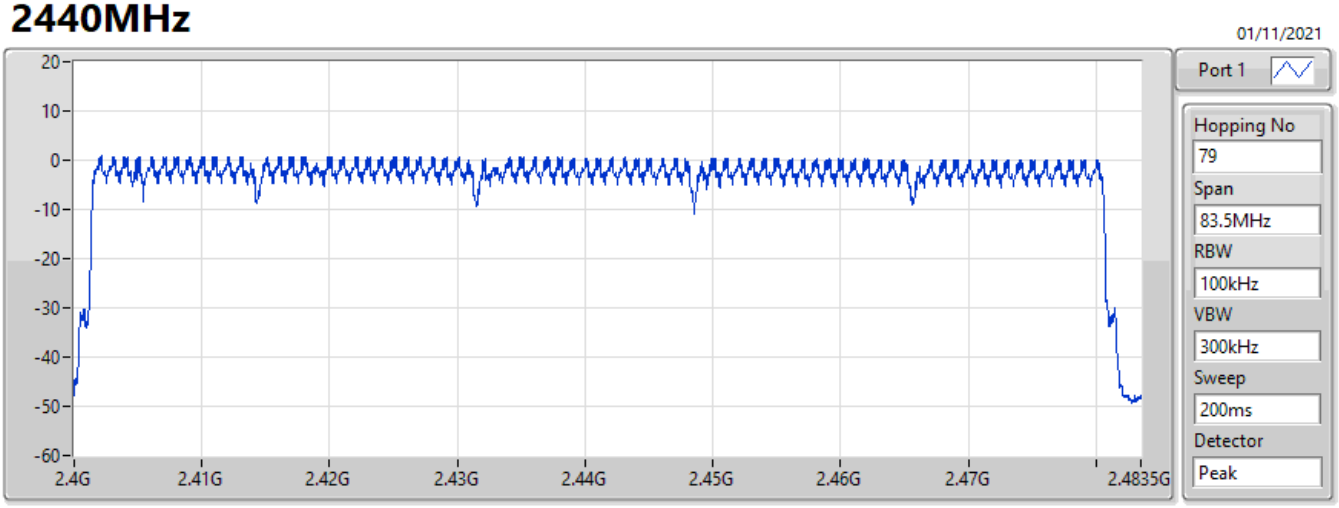
Hopping Ch Bandedge (Restricted Band)



Ref(Hz)	Ref(dBuV/m)	BE-l(Hz)	PK(dBuV/m)	AV(dBuV/m)	BE-h(Hz)	PK(dBuV/m)	AV(dBuV/m)	LimPK(dBuV/	LimAV(dBuV/	Tx On(ms)	DCF(dB)
2.40886G	101.4	2.386495G	60.69	30.59	2.49928G	61.07	30.97	74	54	3.125	-30.1

BT-EDR(3Mbps) Hopping-FS

2440MHz

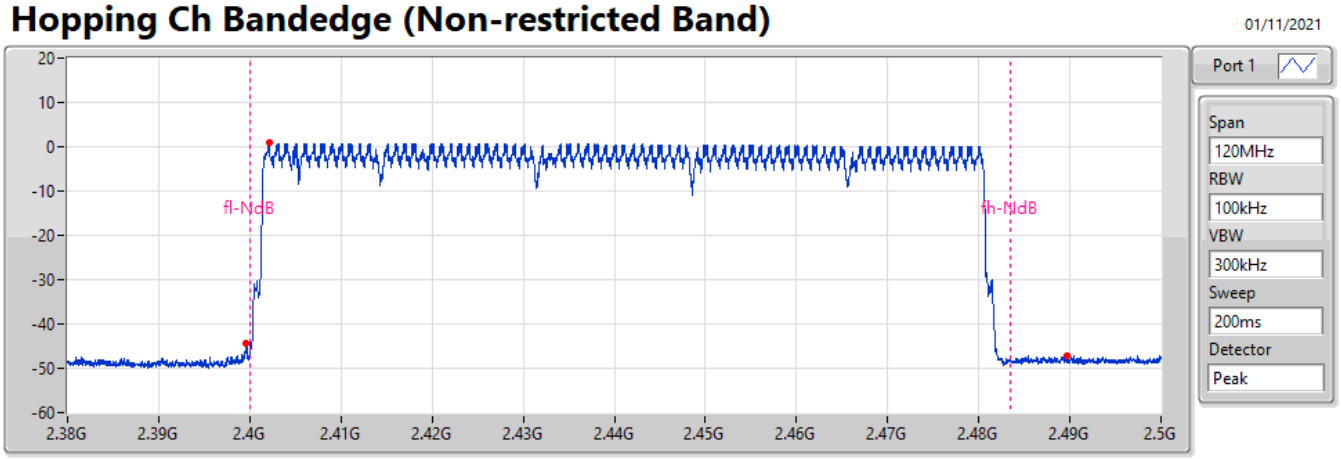


Hopping No	Limit
79	15

BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)



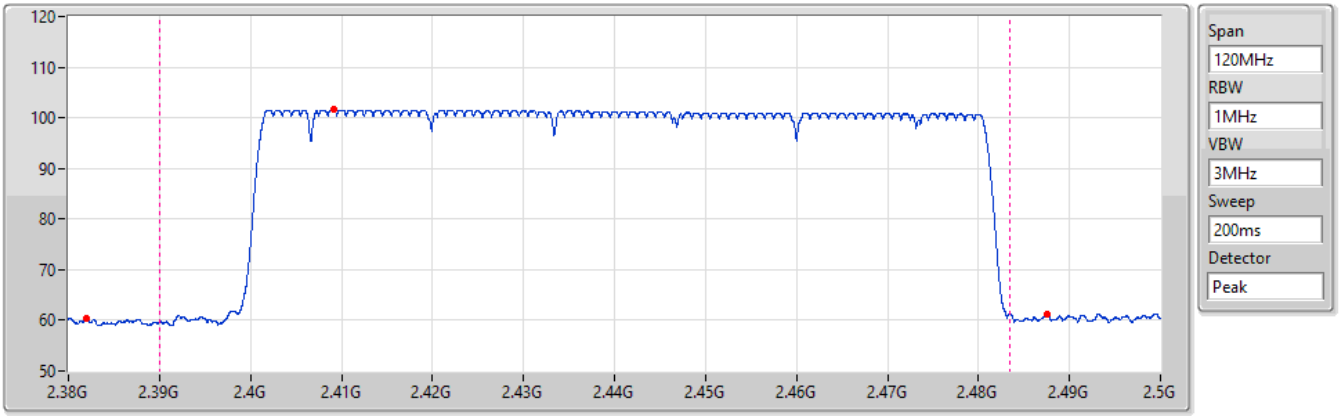
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-19.19	2.402155G	0.81	2.399635G	-44.4	2.489695G	-47.19

BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

01/11/2021



Ref(Hz)	Ref(dBuV/m)	BE-l(Hz)	PK(dBuV/m)	AV(dBuV/m)	BE-h(Hz)	PK(dBuV/m)	AV(dBuV/m)	LimPK(dBuV/	LimAV(dBuV/	Tx On(ms)	DCF(dB)
2.40916G	101.56	2.381905G	60.42	30.32	2.48755G	61.33	31.23	74	54	3.125	-30.1

Summary

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	308.5004m_DH5
BT-EDR(2Mbps)	309.21995m_DH5
BT-EDR(3Mbps)	309.32655m_DH5

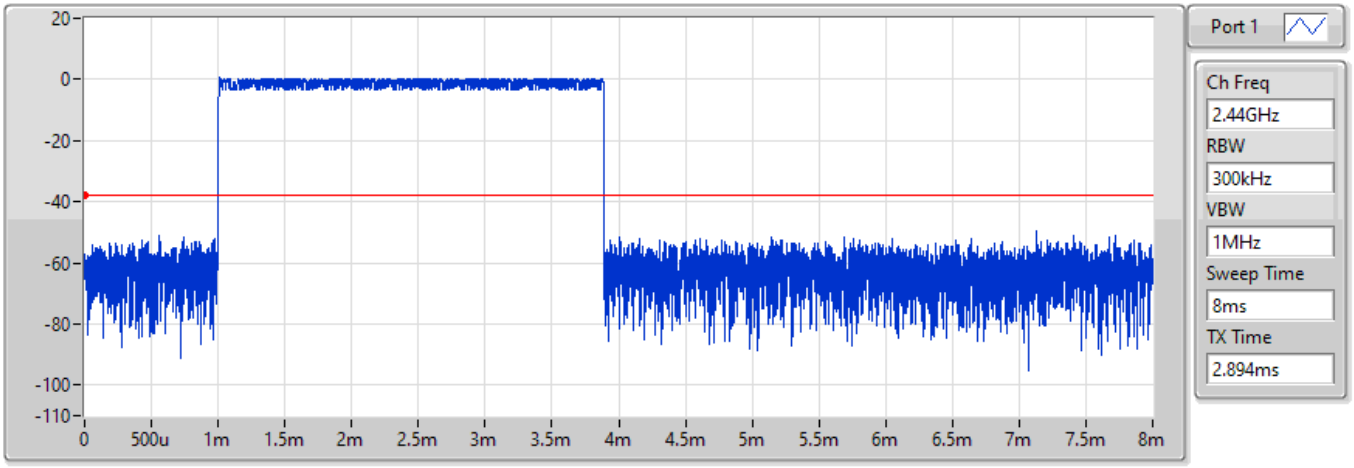
Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.5004m_DH5	400m	2.894m
2440MHz	Pass	8	154.263525m_DH5-AFH	400m	2.89425m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	309.21995m_DH5	400m	2.90075m
2440MHz	Pass	8	154.609975m_DH5-AFH	400m	2.90075m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	309.32655m_DH5	400m	2.90175m
2440MHz	Pass	8	154.689925m_DH5-AFH	400m	2.90225m

BT-BR(1Mbps) Dwell-FS

2440MHz

01/11/2021



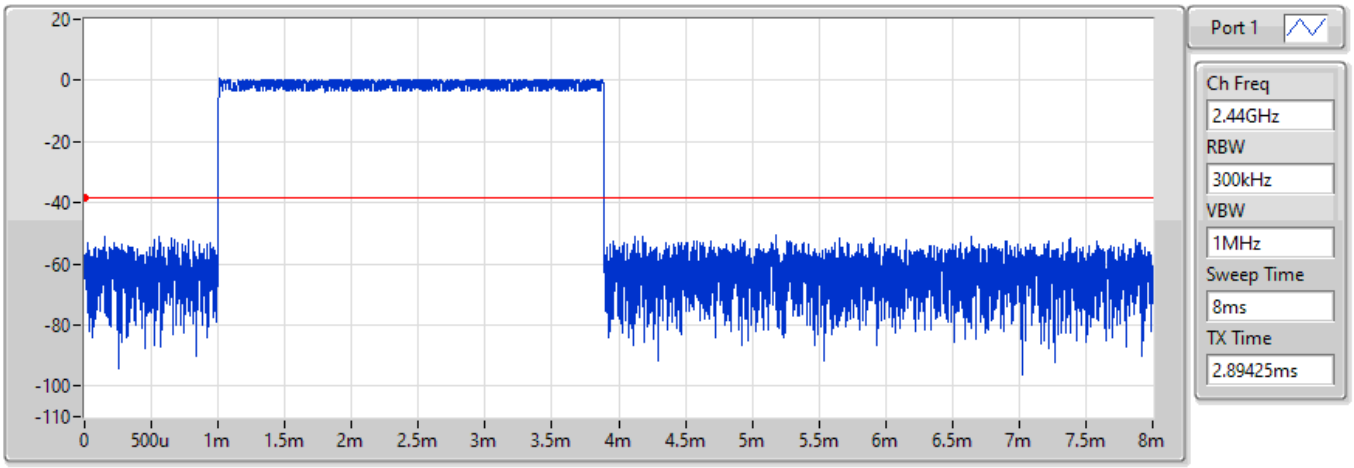
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.5004m_DH5	400m	2.894m

DH5

BT-BR(1Mbps) Dwell-FS

2440MHz

01/11/2021



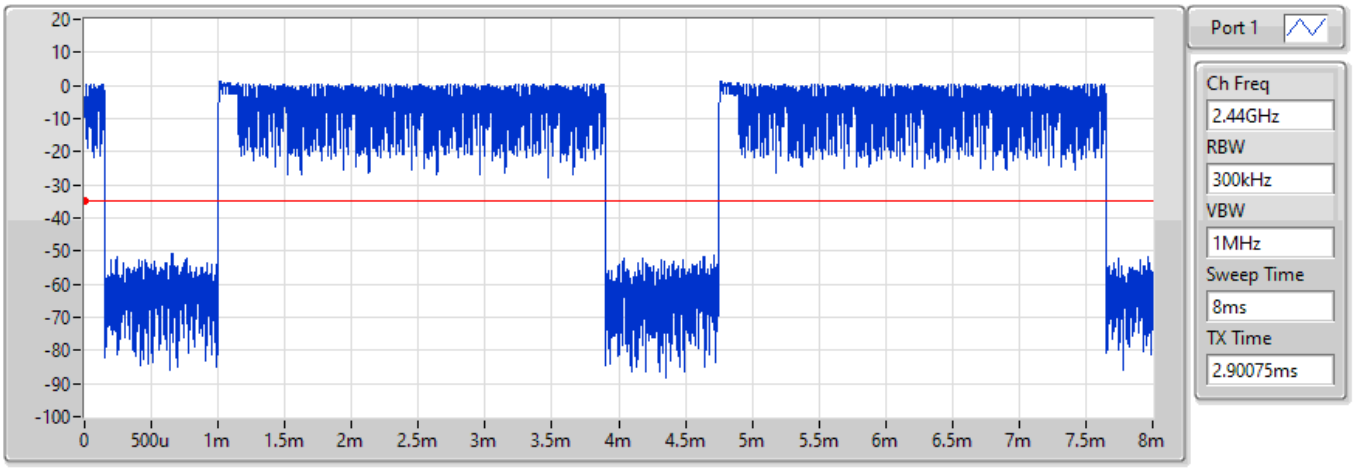
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	154.263525m_DH5-AFI	400m	2.89425m

DH5-AFH

BT-EDR(2Mbps) Dwell-FS

2440MHz

01/11/2021



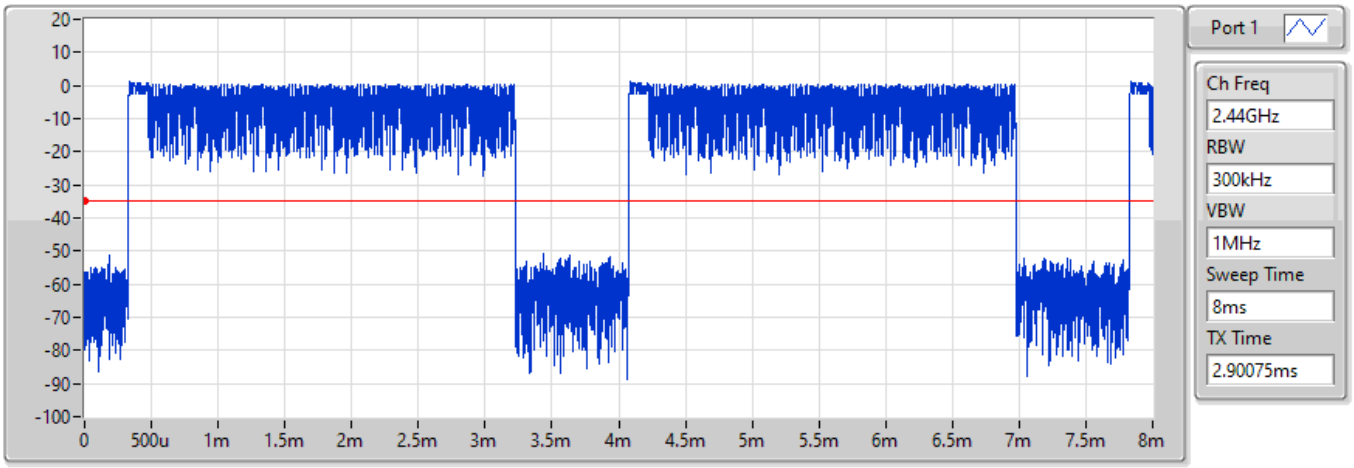
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	309.21995m_DH5	400m	2.90075m

DH5

BT-EDR(2Mbps) Dwell-FS

2440MHz

01/11/2021



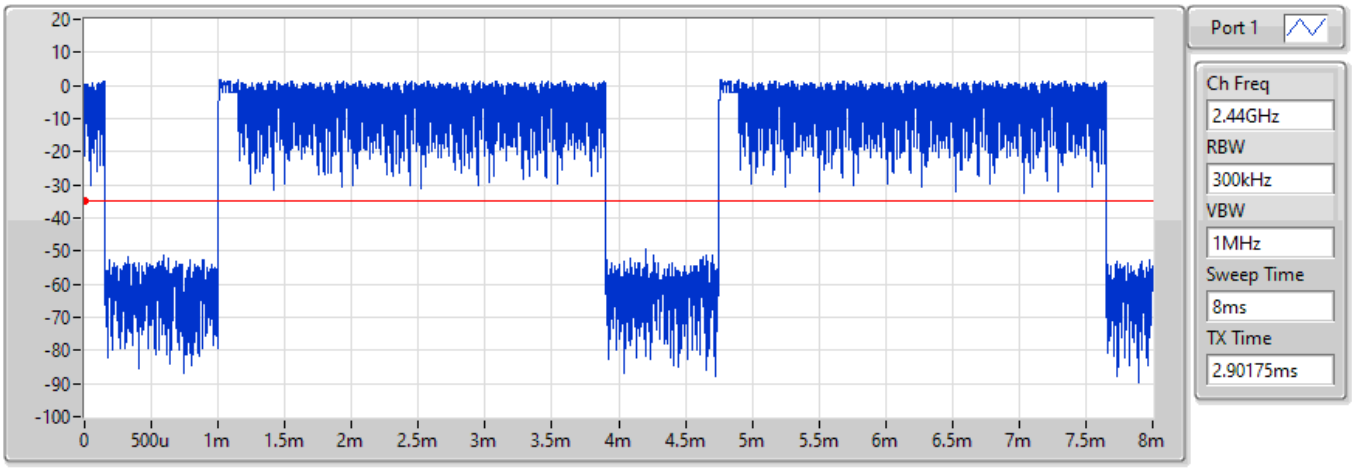
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	154.609975m_DH5-AFI	400m	2.90075m

DH5-AFH

BT-EDR(3Mbps) Dwell-FS

2440MHz

01/11/2021



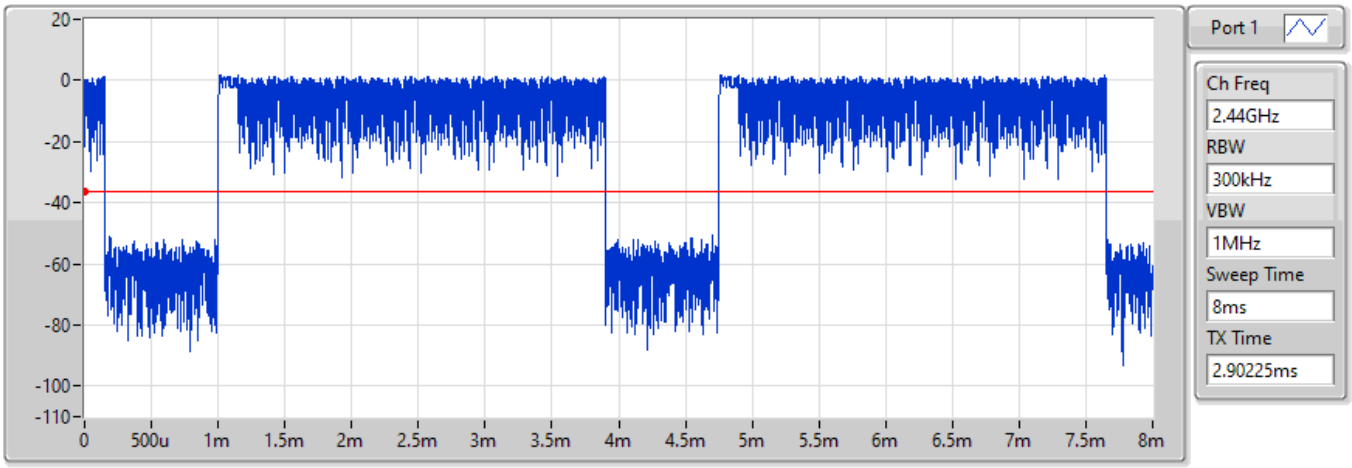
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	309.32655m_DH5	400m	2.90175m

DH5

BT-EDR(3Mbps) Dwell-FS

2440MHz

01/11/2021



Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	154.689925m_DH5-AFI	400m	2.90225m

DH5-AFH

Summary

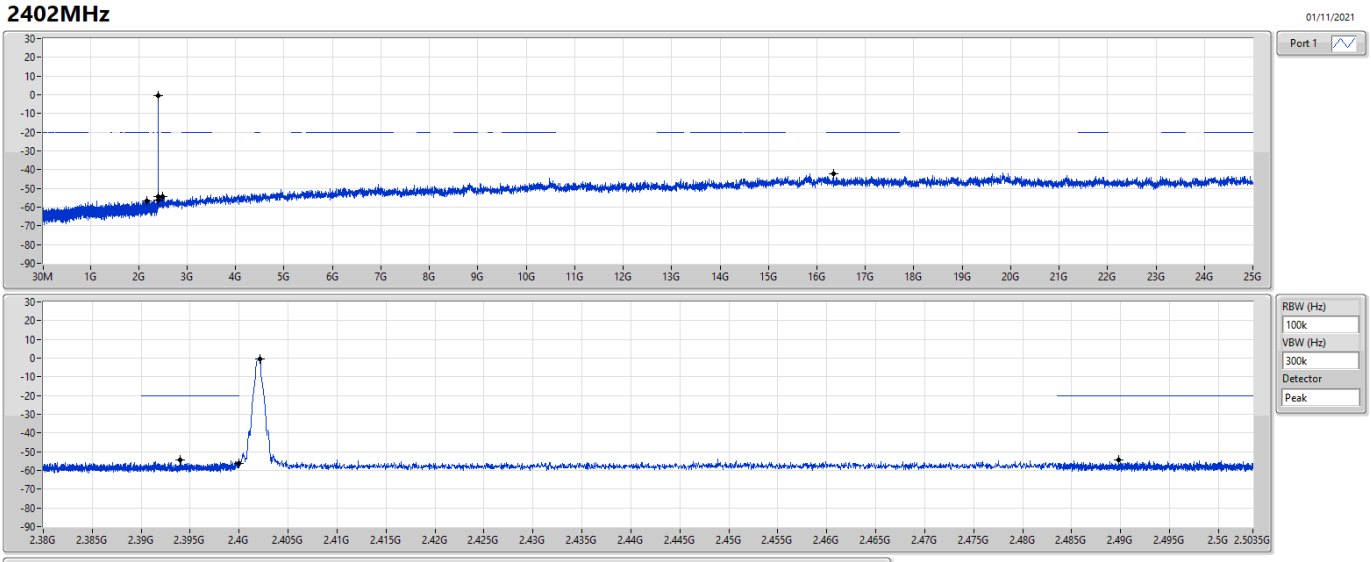
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.48003G	-0.89	-20.89	2.16057G	-55.34	2.3996G	-55.62	2.4835G	-57.43	2.48807G	-54.09	16.22074G	-42.83	1
BT-EDR(2Mbps)	Pass	2.40217G	-0.34	-20.34	2.1356G	-56.11	2.39988G	-52.29	2.4G	-53.73	2.48505G	-54.30	24.17888G	-42.59	1
BT-EDR(3Mbps)	Pass	2.40184G	0.25	-19.75	2.15851G	-56.52	2.4G	-51.23	2.4G	-51.74	2.49497G	-54.33	24.82565G	-43.00	1

Result

Mode	Result	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
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40213G	-0.33	-20.33	2.15851G	-56.95	2.39399G	-54.49	2.4G	-56.10	2.48983G	-54.35	16.33604G	-42.18	1
2440MHz	Pass	2.44016G	0.09	-19.91	2.12855G	-56.26	2.39729G	-54.90	2.4835G	-55.47	2.49624G	-54.36	17.12623G	-42.20	1
2480MHz	Pass	2.48003G	-0.89	-20.89	2.16057G	-55.34	2.3996G	-55.62	2.4835G	-57.43	2.48807G	-54.09	16.22074G	-42.83	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40217G	-0.34	-20.34	2.1356G	-56.11	2.39988G	-52.29	2.4G	-53.73	2.48505G	-54.30	24.17888G	-42.59	1
2440MHz	Pass	2.43987G	-1.33	-21.33	2.17467G	-55.80	2.39157G	-55.42	2.4G	-57.28	2.49194G	-54.54	24.47977G	-42.70	1
2480MHz	Pass	2.48003G	-0.61	-20.61	2.13119G	-56.59	2.39588G	-55.34	2.4835G	-56.44	2.48443G	-53.28	24.84534G	-42.22	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40184G	0.25	-19.75	2.15851G	-56.52	2.4G	-51.23	2.4G	-51.74	2.49497G	-54.33	24.82565G	-43.00	1
2440MHz	Pass	2.43987G	-0.40	-20.40	1.65238G	-56.24	2.39925G	-54.45	2.4835G	-57.59	2.49845G	-54.87	24.80034G	-41.94	1
2480MHz	Pass	2.47987G	-0.10	-20.10	2.30539G	-56.46	2.39257G	-55.73	2.4835G	-56.00	2.48438G	-51.93	24.14795G	-43.08	1

BT-BR(1Mbps) **CSENdB-FS**

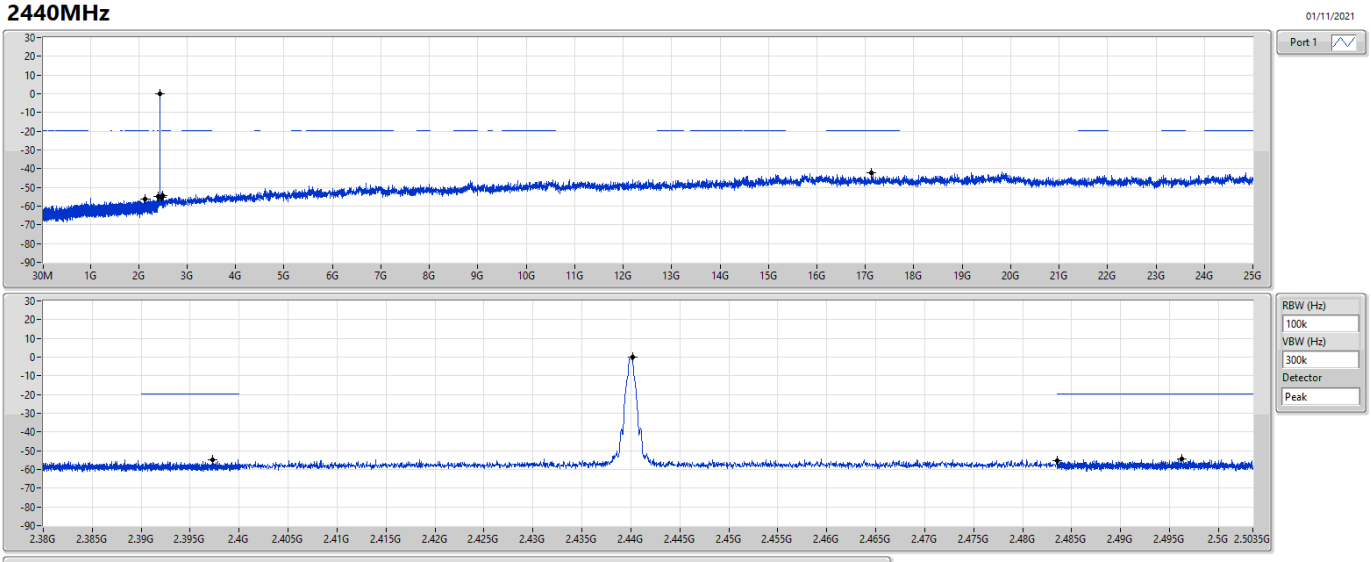
2402MHz



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
2.40213G	-0.33	-20.33	2.15851G	-56.95	2.39399G	-54.49	2.4G	-56.10	2.48983G	-54.35	16.33604G	-42.18	1

BT-BR(1Mbps) **CSENdB-FS**

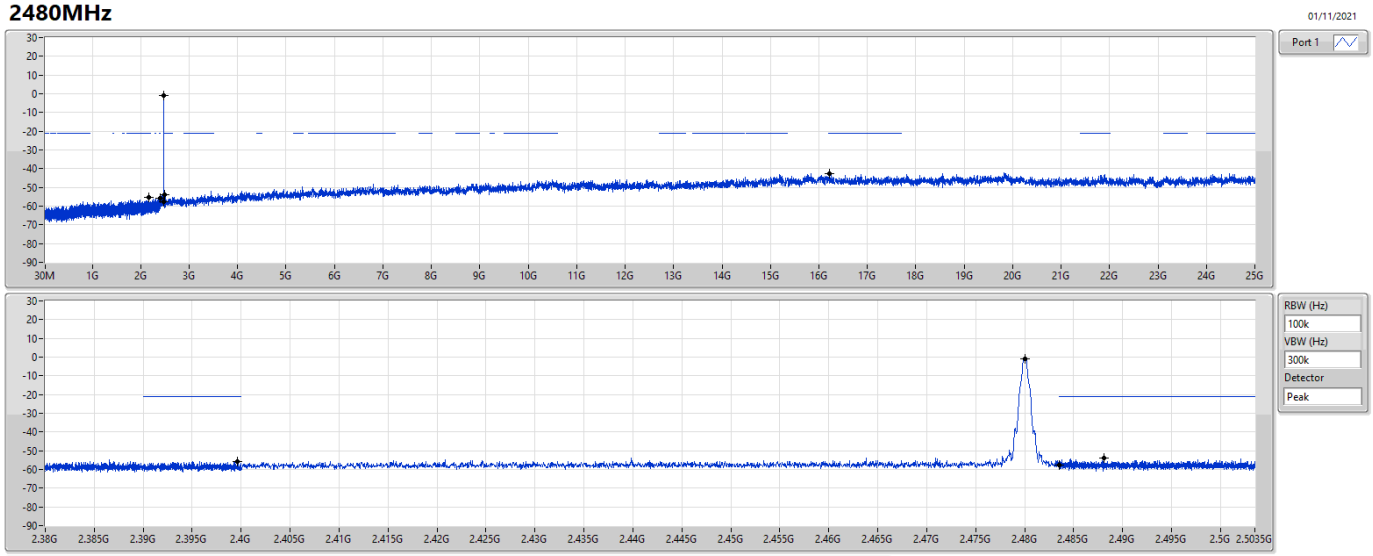
2440MHz



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
2.44016G	0.09	-19.91	2.12855G	-56.26	2.39729G	-54.90	2.4835G	-55.47	2.49624G	-54.36	17.12623G	-42.20	1

BT-BR(1Mbps) **CSENdB-FS**

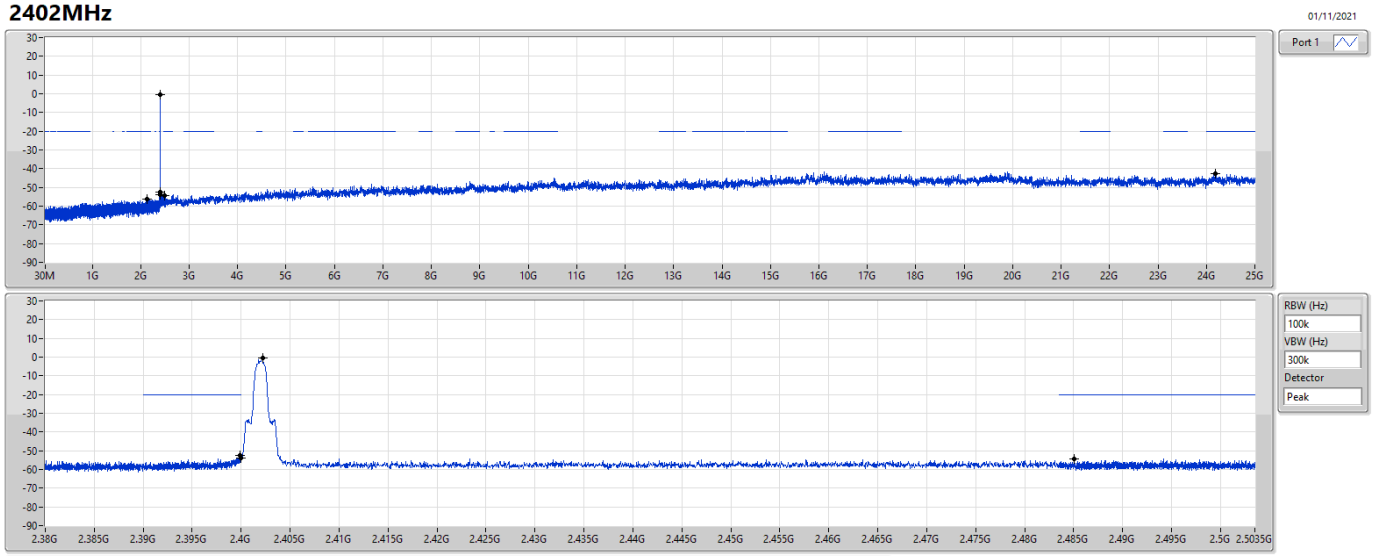
2480MHz



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
2.48003G	-0.89	-20.89	2.16057G	-55.34	2.3996G	-55.62	2.4835G	-57.43	2.48807G	-54.09	16.22074G	-42.83	1

BT-EDR(2Mbps) **CSENdB-FS**

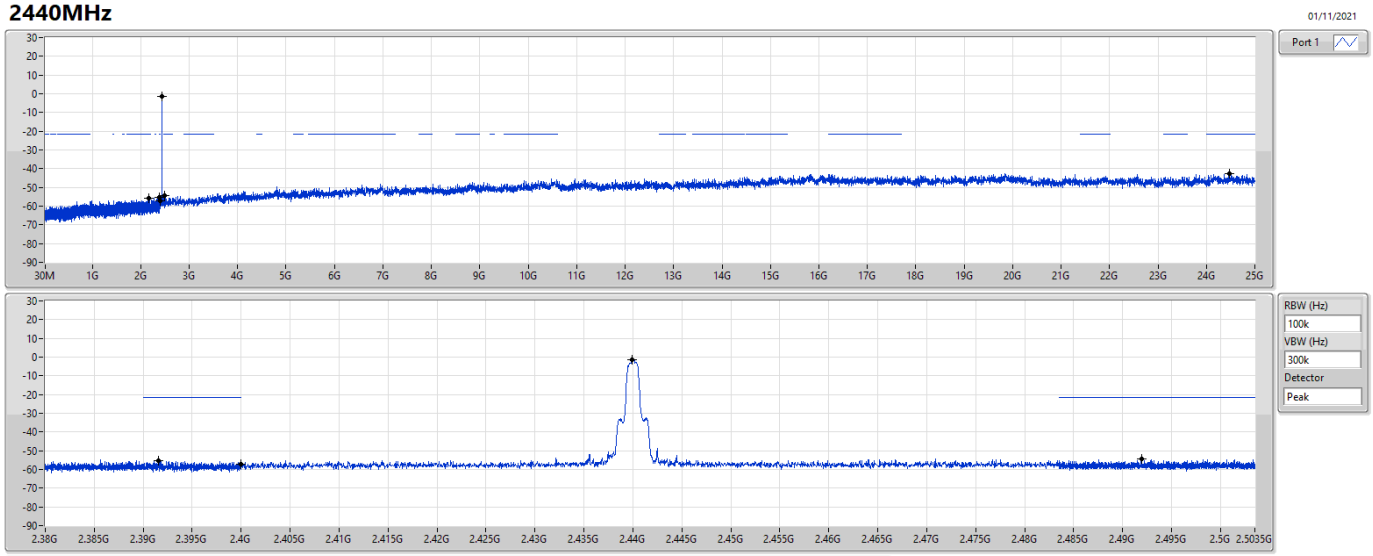
2402MHz



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
2.40217G	-0.34	-20.34	2.1356G	-56.11	2.39988G	-52.29	2.4G	-53.73	2.48505G	-54.30	24.17888G	-42.59	1

BT-EDR(2Mbps) **CSENdB-FS**

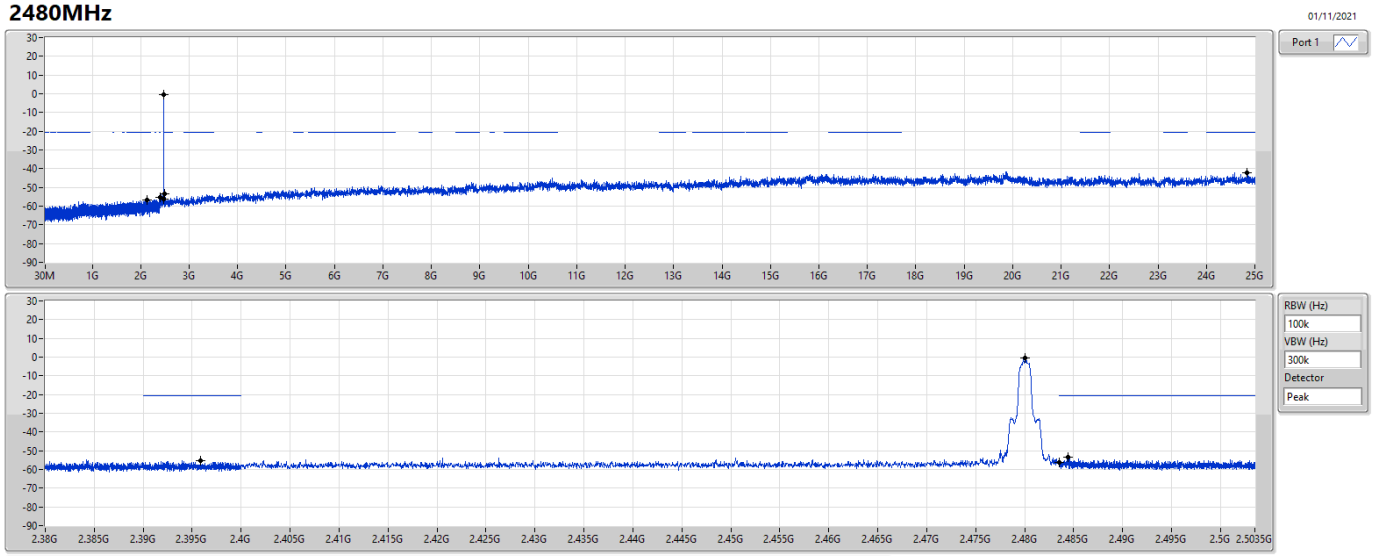
2440MHz



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
2.43987G	-1.33	-21.33	2.17467G	-55.80	2.39157G	-55.42	2.4G	-57.28	2.49194G	-54.54	24.47977G	-42.70	1

BT-EDR(2Mbps) **CSENdB-FS**

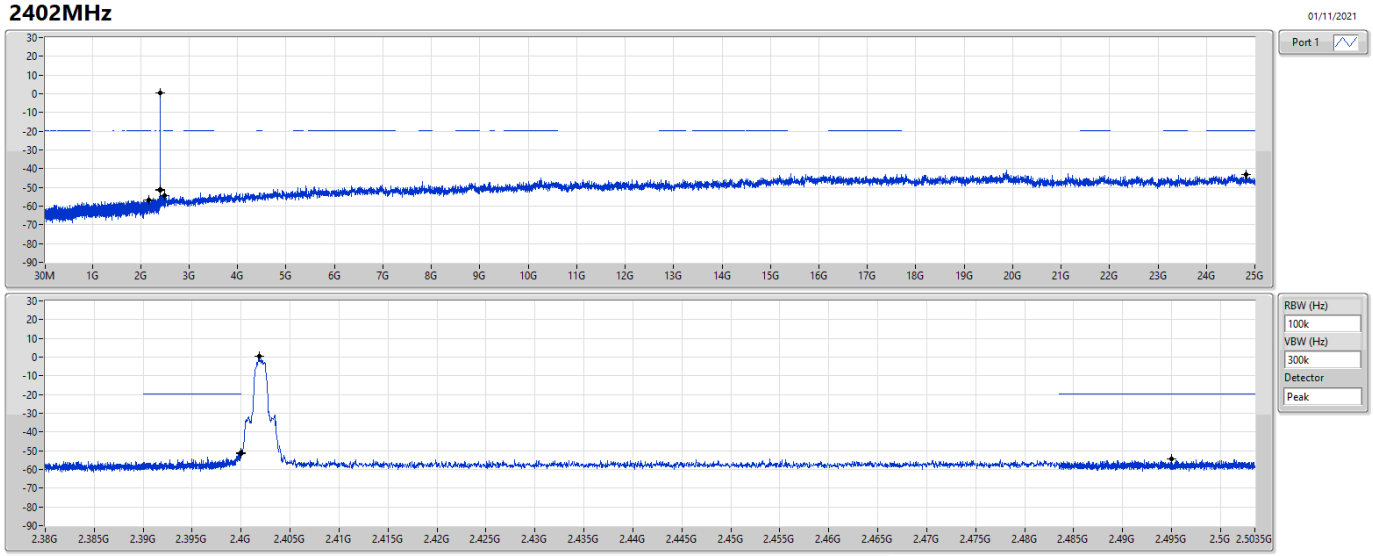
2480MHz



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
2.48003G	-0.61	-20.61	2.13119G	-56.59	2.39588G	-55.34	2.4835G	-56.44	2.48443G	-53.28	24.84534G	-42.22	1

BT-EDR(3Mbps) **CSENdB-FS**

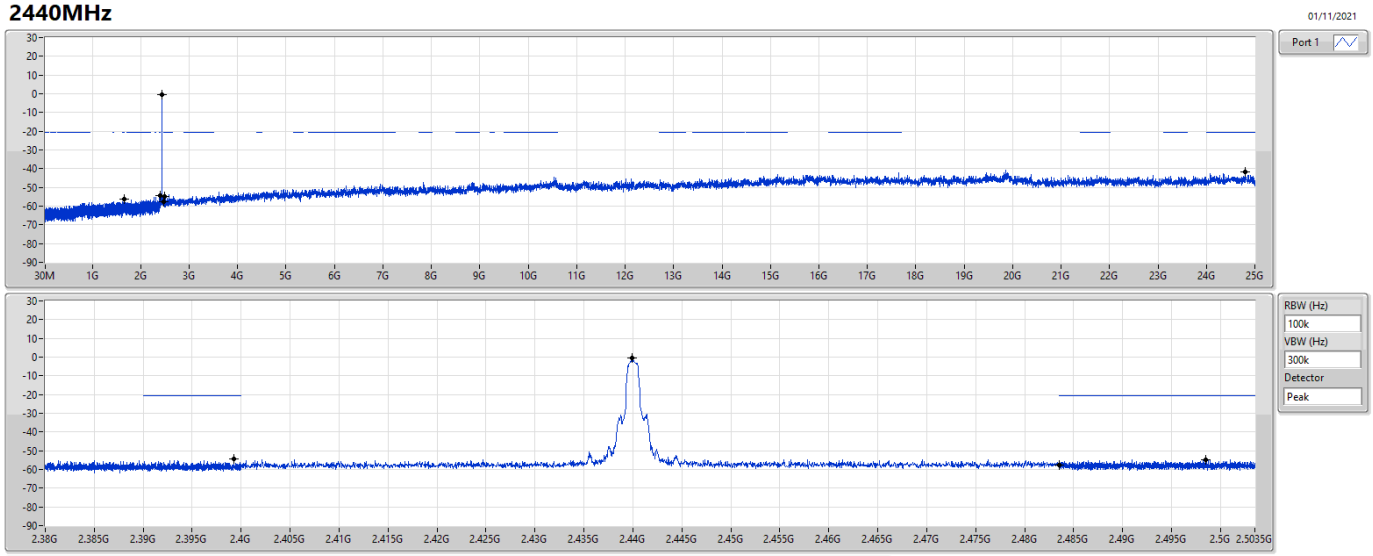
2402MHz



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
2.40184G	0.25	-19.75	2.15851G	-56.52	2.4G	-51.23	2.4G	-51.74	2.49497G	-54.33	24.82565G	-43.00	1

BT-EDR(3Mbps) **CSENdB-FS**

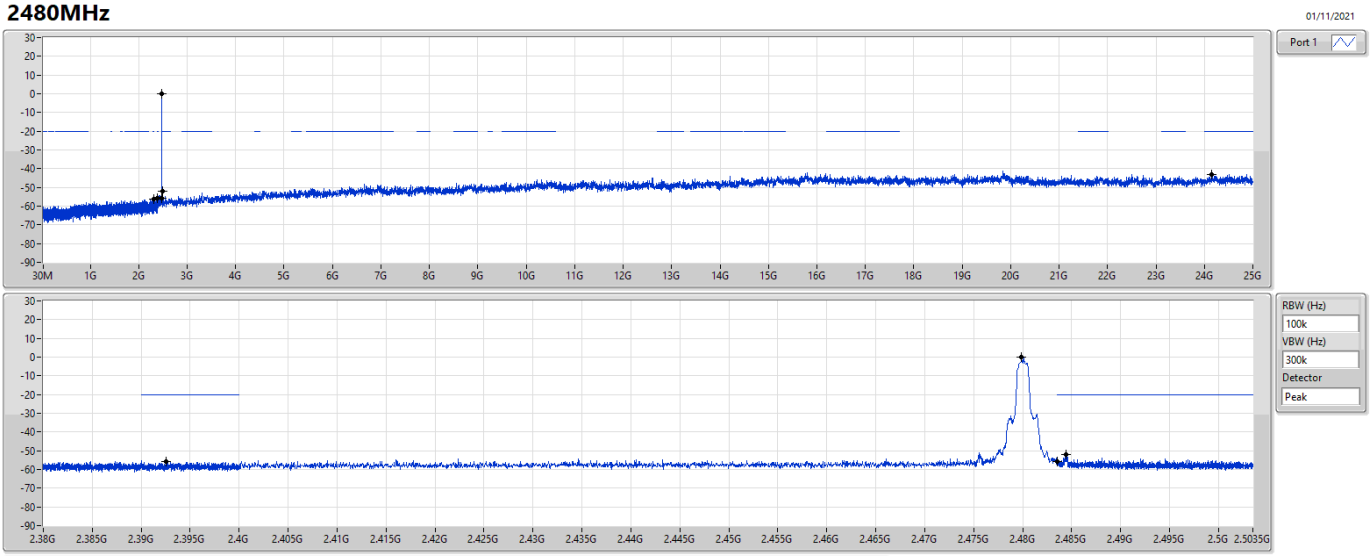
2440MHz



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
2.43987G	-0.40	-20.40	1.65238G	-56.24	2.39925G	-54.45	2.4835G	-57.59	2.49845G	-54.87	24.80034G	-41.94	1

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
2.47987G	-0.10	-20.10	2.30539G	-56.46	2.39257G	-55.73	2.4835G	-56.00	2.48438G	-51.93	24.14795G	-43.08	1

Summary

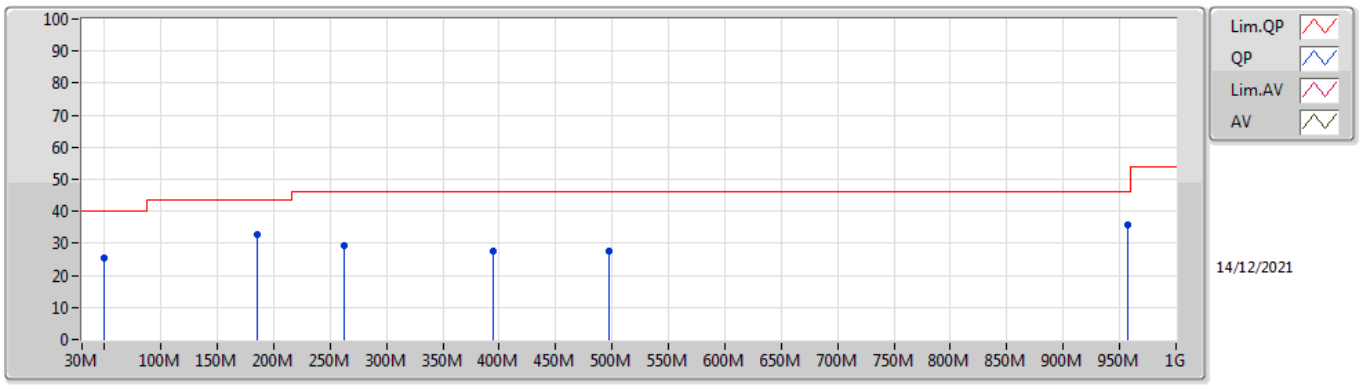
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	PK	185.2M	37.65	43.50	-5.85	3	Horizontal	0	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	49.4M	25.46	40.00	-14.54	3	Vertical	360	1.00	-
2440MHz	Pass	PK	185.2M	32.86	43.50	-10.64	3	Vertical	360	1.00	-
2440MHz	Pass	PK	262.8M	29.44	46.00	-16.56	3	Vertical	360	1.00	-
2440MHz	Pass	PK	394.72M	27.58	46.00	-18.42	3	Vertical	360	1.00	-
2440MHz	Pass	PK	497.54M	27.55	46.00	-18.45	3	Vertical	360	1.00	-
2440MHz	Pass	PK	957.32M	35.87	46.00	-10.13	3	Vertical	360	1.00	-
2440MHz	Pass	PK	51.34M	26.70	40.00	-13.30	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	185.2M	37.65	43.50	-5.85	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	332.64M	29.24	46.00	-16.76	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	429.64M	32.15	46.00	-13.85	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	650.8M	31.46	46.00	-14.54	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	957.32M	35.28	46.00	-10.72	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	76.56M	28.89	40.00	-11.11	3	Vertical	0	1.00	-
2440MHz	Pass	PK	159.98M	26.62	43.50	-16.88	3	Vertical	0	1.00	-
2440MHz	Pass	PK	270.56M	25.31	46.00	-20.69	3	Vertical	0	1.00	-
2440MHz	Pass	PK	491.72M	39.85	46.00	-6.15	3	Vertical	0	1.00	-
2440MHz	Pass	PK	600.36M	35.17	46.00	-10.83	3	Vertical	0	1.00	-
2440MHz	Pass	PK	953.44M	35.02	46.00	-10.98	3	Vertical	0	1.00	-
2440MHz	Pass	PK	76.56M	22.45	40.00	-17.55	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	159.98M	31.75	43.50	-11.75	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	355.92M	27.27	46.00	-18.73	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	429.64M	30.72	46.00	-15.28	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	724.52M	31.05	46.00	-14.95	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	871.96M	34.40	46.00	-11.60	3	Horizontal	360	1.00	-

BT-BR(1Mbps)

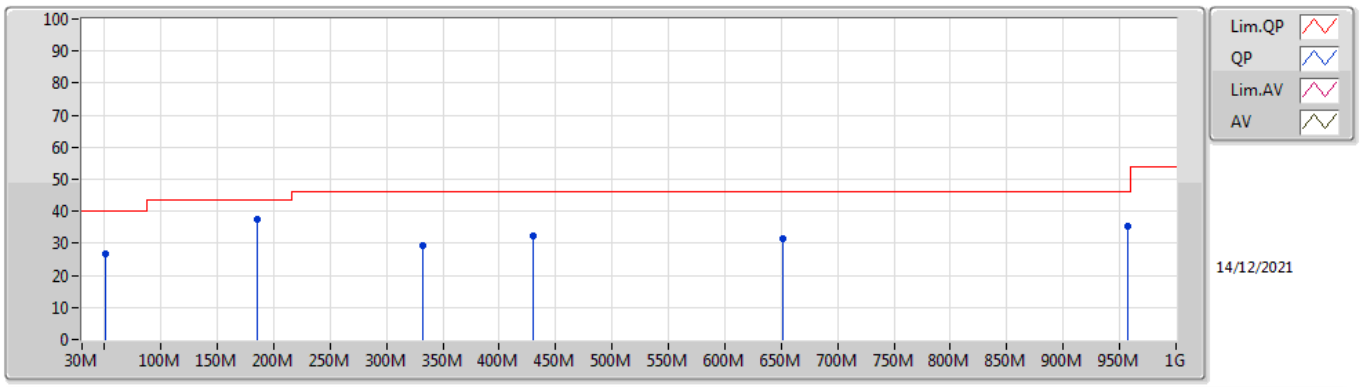
2440MHz_USB



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	49.4M	25.46	40.00	-14.54	-22.48	3	Vertical	360	1.00	-	47.94	13.80	0.82	37.10
PK	185.2M	32.86	43.50	-10.64	-21.01	3	Vertical	360	1.00	-	53.87	14.09	1.29	36.39
PK	262.8M	29.44	46.00	-16.56	-15.56	3	Vertical	360	1.00	-	45.00	19.30	1.54	36.40
PK	394.72M	27.58	46.00	-18.42	-13.88	3	Vertical	360	1.00	-	41.46	20.79	1.90	36.57
PK	497.54M	27.55	46.00	-18.45	-11.66	3	Vertical	360	1.00	-	39.21	23.09	2.22	36.97
PK	957.32M	35.87	46.00	-10.13	-4.25	3	Vertical	360	1.00	-	40.12	30.14	3.11	37.50

BT-BR(1Mbps)

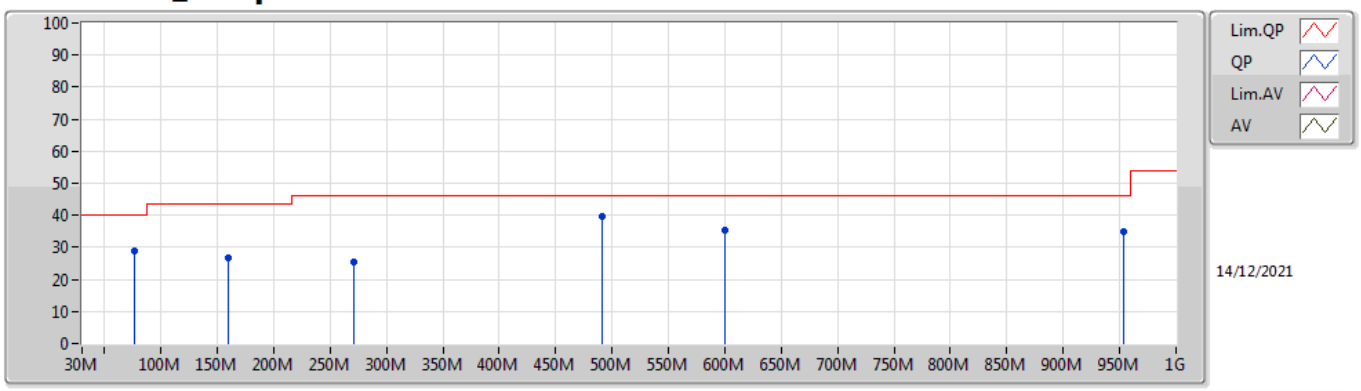
2440MHz_USB



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	51.34M	26.70	40.00	-13.30	-23.43	3	Horizontal	0	1.00	-	50.13	12.85	0.83	37.11
PK	185.2M	37.65	43.50	-5.85	-21.01	3	Horizontal	0	1.00	-	58.66	14.09	1.29	36.39
PK	332.64M	29.24	46.00	-16.76	-15.77	3	Horizontal	0	1.00	-	45.01	18.99	1.74	36.50
PK	429.64M	32.15	46.00	-13.85	-12.54	3	Horizontal	0	1.00	-	44.69	22.04	2.02	36.60
PK	650.8M	31.46	46.00	-14.54	-8.98	3	Horizontal	0	1.00	-	40.44	25.65	2.62	37.25
PK	957.32M	35.28	46.00	-10.72	-4.25	3	Horizontal	0	1.00	-	39.53	30.14	3.11	37.50

BT-BR(1Mbps)

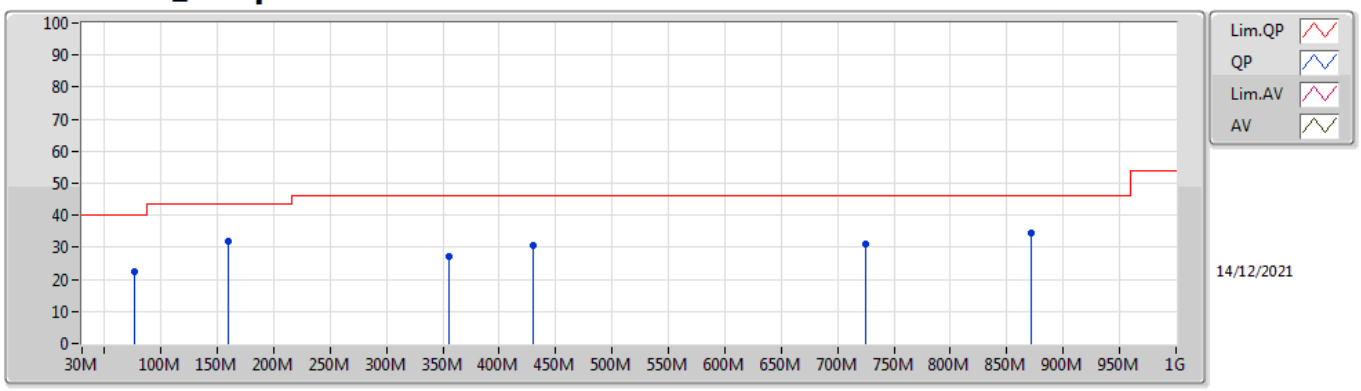
2440MHz_Adapter



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	76.56M	28.89	40.00	-11.11	-23.90	3	Vertical	0	1.00	-	52.79	12.14	0.87	36.91
PK	159.98M	26.62	43.50	-16.88	-19.44	3	Vertical	0	1.00	-	46.06	15.70	1.23	36.37
PK	270.56M	25.31	46.00	-20.69	-16.60	3	Vertical	0	1.00	-	41.91	18.24	1.57	36.41
PK	491.72M	39.85	46.00	-6.15	-11.70	3	Vertical	0	1.00	-	51.55	23.02	2.21	36.93
PK	600.36M	35.17	46.00	-10.83	-9.89	3	Vertical	0	1.00	-	45.06	24.76	2.47	37.12
PK	953.44M	35.02	46.00	-10.98	-4.37	3	Vertical	0	1.00	-	39.39	30.07	3.10	37.54

BT-BR(1Mbps)

2440MHz_Adapter



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	76.56M	22.45	40.00	-17.55	-23.90	3	Horizontal	360	1.00	-	46.35	12.14	0.87	36.91
PK	159.98M	31.75	43.50	-11.75	-19.44	3	Horizontal	360	1.00	-	51.19	15.70	1.23	36.37
PK	355.92M	27.27	46.00	-18.73	-14.93	3	Horizontal	360	1.00	-	42.20	19.81	1.79	36.53
PK	429.64M	30.72	46.00	-15.28	-12.54	3	Horizontal	360	1.00	-	43.26	22.04	2.02	36.60
PK	724.52M	31.05	46.00	-14.95	-8.16	3	Horizontal	360	1.00	-	39.21	26.56	2.73	37.45
PK	871.96M	34.40	46.00	-11.60	-6.22	3	Horizontal	360	1.00	-	40.62	28.40	2.97	37.59

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	PK	2.3878G	58.55	74.00	-15.45	3	Horizontal	245	1.18	-
BT-EDR(3Mbps)	Pass	PK	2.4844G	58.59	74.00	-15.41	3	Horizontal	265	1.04	-

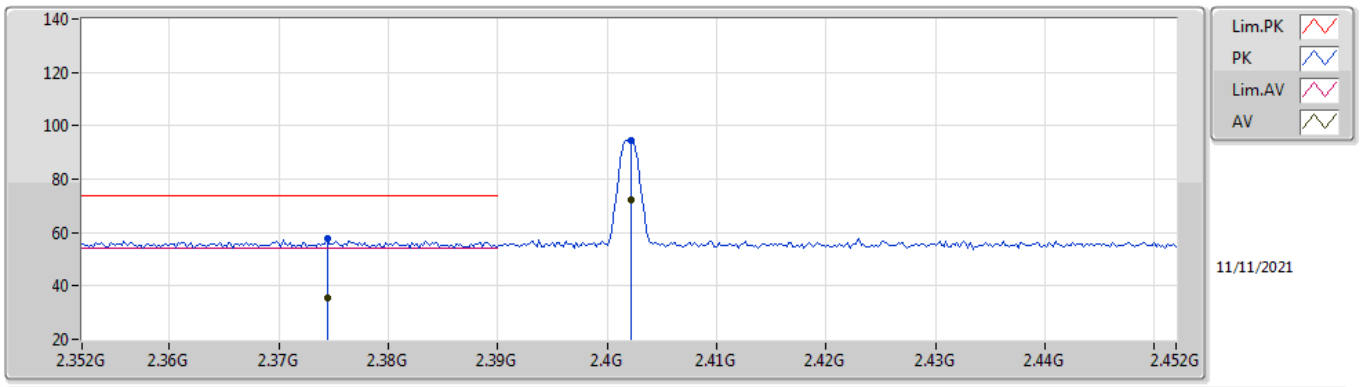
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3744G	35.27	54.00	-18.73	3	Vertical	93	1.28	-
2402MHz	Pass	AV	2.4022G	72.09	Inf	-Inf	3	Vertical	93	1.28	-
2402MHz	Pass	PK	2.3744G	57.77	74.00	-16.23	3	Vertical	93	1.28	-
2402MHz	Pass	PK	2.4022G	94.59	Inf	-Inf	3	Vertical	93	1.28	-
2402MHz	Pass	AV	2.3878G	36.05	54.00	-17.95	3	Horizontal	245	1.18	-
2402MHz	Pass	AV	2.4018G	76.53	Inf	-Inf	3	Horizontal	245	1.18	-
2402MHz	Pass	PK	2.3878G	58.55	74.00	-15.45	3	Horizontal	245	1.18	-
2402MHz	Pass	PK	2.4018G	99.03	Inf	-Inf	3	Horizontal	245	1.18	-
2402MHz	Pass	AV	4.80376G	24.54	54.00	-29.46	3	Vertical	143	1.05	-
2402MHz	Pass	PK	4.80376G	47.04	74.00	-26.96	3	Vertical	143	1.05	-
2402MHz	Pass	AV	4.8038G	23.72	54.00	-30.28	3	Horizontal	153	1.33	-
2402MHz	Pass	PK	4.8038G	46.22	74.00	-27.78	3	Horizontal	153	1.33	-
2440MHz	Pass	AV	2.3668G	34.42	54.00	-19.58	3	Vertical	115	1.19	-
2440MHz	Pass	AV	2.44G	73.37	Inf	-Inf	3	Vertical	115	1.19	-
2440MHz	Pass	AV	2.4924G	34.23	54.00	-19.77	3	Vertical	115	1.19	-
2440MHz	Pass	PK	2.3668G	56.92	74.00	-17.08	3	Vertical	115	1.19	-
2440MHz	Pass	PK	2.44G	95.87	Inf	-Inf	3	Vertical	115	1.19	-
2440MHz	Pass	PK	2.4924G	56.73	74.00	-17.27	3	Vertical	115	1.19	-
2440MHz	Pass	AV	2.3796G	34.81	54.00	-19.19	3	Horizontal	266	1.00	-
2440MHz	Pass	AV	2.44G	77.18	Inf	-Inf	3	Horizontal	266	1.00	-
2440MHz	Pass	AV	2.4852G	35.26	54.00	-18.74	3	Horizontal	266	1.00	-
2440MHz	Pass	PK	2.3796G	57.31	74.00	-16.69	3	Horizontal	266	1.00	-
2440MHz	Pass	PK	2.44G	99.68	Inf	-Inf	3	Horizontal	266	1.00	-
2440MHz	Pass	PK	2.4852G	57.76	74.00	-16.24	3	Horizontal	266	1.00	-
2440MHz	Pass	AV	4.87978G	24.40	54.00	-29.60	3	Vertical	41	2.78	-
2440MHz	Pass	AV	7.31951G	31.18	54.00	-22.82	3	Vertical	97	1.00	-
2440MHz	Pass	PK	4.87978G	46.90	74.00	-27.10	3	Vertical	41	2.78	-
2440MHz	Pass	PK	7.31951G	53.68	74.00	-20.32	3	Vertical	97	1.00	-
2440MHz	Pass	AV	4.88004G	23.34	54.00	-30.66	3	Horizontal	150	1.52	-
2440MHz	Pass	AV	7.32042G	33.53	54.00	-20.47	3	Horizontal	53	2.11	-
2440MHz	Pass	PK	4.88004G	45.84	74.00	-28.16	3	Horizontal	150	1.52	-
2440MHz	Pass	PK	7.32042G	56.03	74.00	-17.97	3	Horizontal	53	2.11	-
2480MHz	Pass	AV	2.4798G	72.08	Inf	-Inf	3	Vertical	143	1.73	-
2480MHz	Pass	AV	2.4956G	34.42	54.00	-19.58	3	Vertical	143	1.73	-
2480MHz	Pass	PK	2.4798G	94.58	Inf	-Inf	3	Vertical	143	1.73	-
2480MHz	Pass	PK	2.4956G	56.92	74.00	-17.08	3	Vertical	143	1.73	-
2480MHz	Pass	AV	2.4798G	75.85	Inf	-Inf	3	Horizontal	265	1.50	-
2480MHz	Pass	AV	2.495G	34.65	54.00	-19.35	3	Horizontal	265	1.50	-
2480MHz	Pass	PK	2.4798G	98.35	Inf	-Inf	3	Horizontal	265	1.50	-
2480MHz	Pass	PK	2.495G	57.15	74.00	-16.85	3	Horizontal	265	1.50	-
2480MHz	Pass	AV	4.95995G	24.67	54.00	-29.33	3	Vertical	40	2.50	-
2480MHz	Pass	AV	7.43972G	30.39	54.00	-23.61	3	Vertical	259	2.22	-
2480MHz	Pass	PK	4.95995G	47.17	74.00	-26.83	3	Vertical	40	2.50	-
2480MHz	Pass	PK	7.43972G	52.89	74.00	-21.11	3	Vertical	259	2.22	-
2480MHz	Pass	AV	4.96046G	25.65	54.00	-28.35	3	Horizontal	36	2.81	-
2480MHz	Pass	AV	7.44059G	32.15	54.00	-21.85	3	Horizontal	72	2.15	-
2480MHz	Pass	PK	4.96046G	48.15	74.00	-25.85	3	Horizontal	36	2.81	-
2480MHz	Pass	PK	7.44059G	54.65	74.00	-19.35	3	Horizontal	72	2.15	-
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3674G	35.40	54.00	-18.60	3	Vertical	94	1.28	-
2402MHz	Pass	AV	2.4022G	73.42	Inf	-Inf	3	Vertical	94	1.28	-
2402MHz	Pass	PK	2.3674G	57.90	74.00	-16.10	3	Vertical	94	1.28	-
2402MHz	Pass	PK	2.4022G	95.92	Inf	-Inf	3	Vertical	94	1.28	-
2402MHz	Pass	AV	2.3864G	35.33	54.00	-18.67	3	Horizontal	245	1.17	-
2402MHz	Pass	AV	2.4018G	77.89	Inf	-Inf	3	Horizontal	245	1.17	-
2402MHz	Pass	PK	2.3864G	57.83	74.00	-16.17	3	Horizontal	245	1.17	-
2402MHz	Pass	PK	2.4018G	100.39	Inf	-Inf	3	Horizontal	245	1.17	-
2402MHz	Pass	AV	4.80476G	25.08	54.00	-28.92	3	Vertical	144	1.04	-
2402MHz	Pass	PK	4.80476G	47.58	74.00	-26.42	3	Vertical	144	1.04	-
2402MHz	Pass	AV	4.8047G	23.62	54.00	-30.38	3	Horizontal	152	1.50	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2402MHz	Pass	PK	4.8047G	46.12	74.00	-27.88	3	Horizontal	152	1.50	-
2440MHz	Pass	AV	2.3588G	34.81	54.00	-19.19	3	Vertical	114	1.19	-
2440MHz	Pass	AV	2.44G	75.04	Inf	-Inf	3	Vertical	114	1.19	-
2440MHz	Pass	AV	2.488G	34.99	54.00	-19.01	3	Vertical	114	1.19	-
2440MHz	Pass	PK	2.3588G	57.31	74.00	-16.69	3	Vertical	114	1.19	-
2440MHz	Pass	PK	2.44G	97.54	Inf	-Inf	3	Vertical	114	1.19	-
2440MHz	Pass	PK	2.488G	57.49	74.00	-16.51	3	Vertical	114	1.19	-
2440MHz	Pass	AV	2.3608G	34.24	54.00	-19.76	3	Horizontal	266	1.18	-
2440MHz	Pass	AV	2.44G	78.74	Inf	-Inf	3	Horizontal	266	1.18	-
2440MHz	Pass	AV	2.4848G	35.19	54.00	-18.81	3	Horizontal	266	1.18	-
2440MHz	Pass	PK	2.3608G	56.74	74.00	-17.26	3	Horizontal	266	1.18	-
2440MHz	Pass	PK	2.44G	101.24	Inf	-Inf	3	Horizontal	266	1.18	-
2440MHz	Pass	PK	2.4848G	57.69	74.00	-16.31	3	Horizontal	266	1.18	-
2440MHz	Pass	AV	4.87998G	25.51	54.00	-28.49	3	Vertical	93	1.00	-
2440MHz	Pass	AV	7.32054G	31.08	54.00	-22.92	3	Vertical	98	1.06	-
2440MHz	Pass	PK	4.87998G	48.01	74.00	-25.99	3	Vertical	93	1.00	-
2440MHz	Pass	PK	7.32054G	53.58	74.00	-20.42	3	Vertical	98	1.06	-
2440MHz	Pass	AV	4.87967G	22.94	54.00	-31.06	3	Horizontal	151	1.50	-
2440MHz	Pass	AV	7.32028G	31.87	54.00	-22.13	3	Horizontal	34	2.89	-
2440MHz	Pass	PK	4.87967G	45.44	74.00	-28.56	3	Horizontal	151	1.50	-
2440MHz	Pass	PK	7.32028G	54.37	74.00	-19.63	3	Horizontal	34	2.89	-
2480MHz	Pass	AV	2.4802G	73.62	Inf	-Inf	3	Vertical	143	1.73	-
2480MHz	Pass	AV	2.491G	34.71	54.00	-19.29	3	Vertical	143	1.73	-
2480MHz	Pass	PK	2.4802G	96.12	Inf	-Inf	3	Vertical	143	1.73	-
2480MHz	Pass	PK	2.491G	57.21	74.00	-16.79	3	Vertical	143	1.73	-
2480MHz	Pass	AV	2.4802G	77.42	Inf	-Inf	3	Horizontal	265	1.04	-
2480MHz	Pass	AV	2.4844G	36.09	54.00	-17.91	3	Horizontal	265	1.04	-
2480MHz	Pass	PK	2.4802G	99.92	Inf	-Inf	3	Horizontal	265	1.04	-
2480MHz	Pass	PK	2.4844G	58.59	74.00	-15.41	3	Horizontal	265	1.04	-
2480MHz	Pass	AV	4.96034G	25.68	54.00	-28.32	3	Vertical	336	1.03	-
2480MHz	Pass	AV	7.43997G	30.24	54.00	-23.76	3	Vertical	5	1.50	-
2480MHz	Pass	PK	4.96034G	48.18	74.00	-25.82	3	Vertical	336	1.03	-
2480MHz	Pass	PK	7.43997G	52.74	74.00	-21.26	3	Vertical	5	1.50	-
2480MHz	Pass	AV	4.95974G	25.13	54.00	-28.87	3	Horizontal	23	2.12	-
2480MHz	Pass	AV	7.43926G	32.43	54.00	-21.57	3	Horizontal	73	2.13	-
2480MHz	Pass	PK	4.95974G	47.63	74.00	-26.37	3	Horizontal	23	2.12	-
2480MHz	Pass	PK	7.43926G	54.93	74.00	-19.07	3	Horizontal	73	2.13	-

BT-BR(1Mbps)

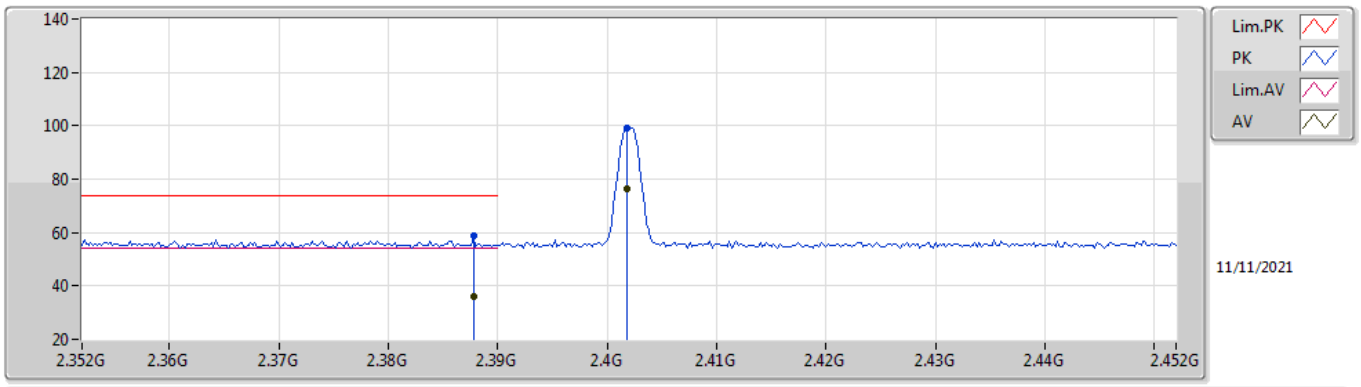
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3744G	35.27	54.00	-18.73	32.26	3	Vertical	93	1.28	-	3.01	27.70	4.56	-
AV	2.4022G	72.09	Inf	-Inf	32.18	3	Vertical	93	1.28	-	39.91	27.60	4.58	-
PK	2.3744G	57.77	74.00	-16.23	32.26	3	Vertical	93	1.28	-	25.51	27.70	4.56	-
PK	2.4022G	94.59	Inf	-Inf	32.18	3	Vertical	93	1.28	-	62.41	27.60	4.58	-

BT-BR(1Mbps)

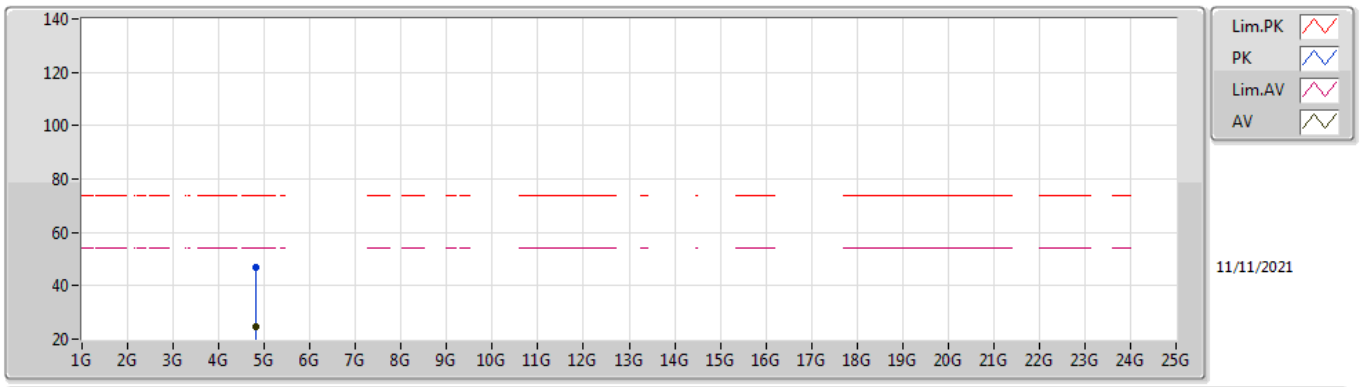
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3878G	36.05	54.00	-17.95	32.22	3	Horizontal	245	1.18	-	3.83	27.65	4.57	-
AV	2.4018G	76.53	Inf	-Inf	32.18	3	Horizontal	245	1.18	-	44.35	27.60	4.58	-
PK	2.3878G	58.55	74.00	-15.45	32.22	3	Horizontal	245	1.18	-	26.33	27.65	4.57	-
PK	2.4018G	99.03	Inf	-Inf	32.18	3	Horizontal	245	1.18	-	66.85	27.60	4.58	-

BT-BR(1Mbps)

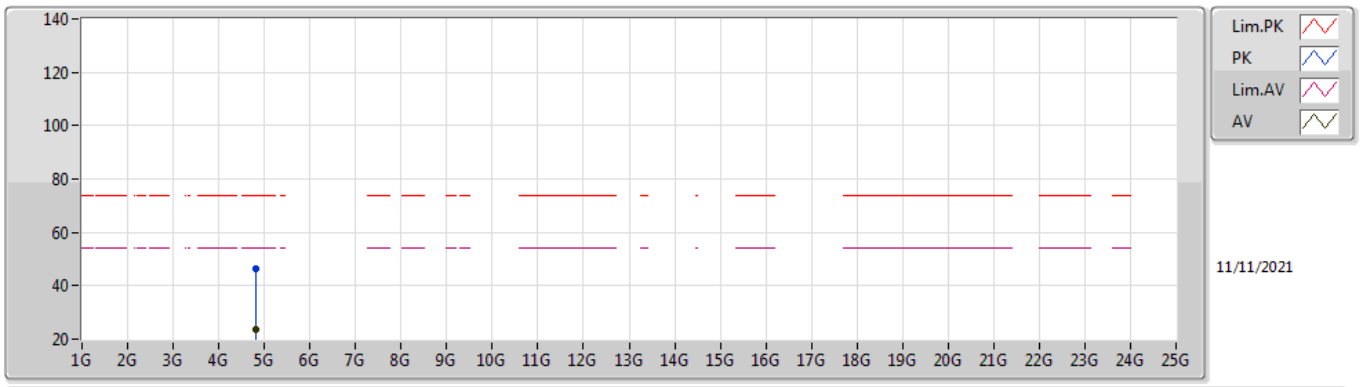
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.80376G	24.54	54.00	-29.46	2.95	3	Vertical	143	1.05	-	21.59	31.10	6.66	34.81
PK	4.80376G	47.04	74.00	-26.96	2.95	3	Vertical	143	1.05	-	44.09	31.10	6.66	34.81

BT-BR(1Mbps)

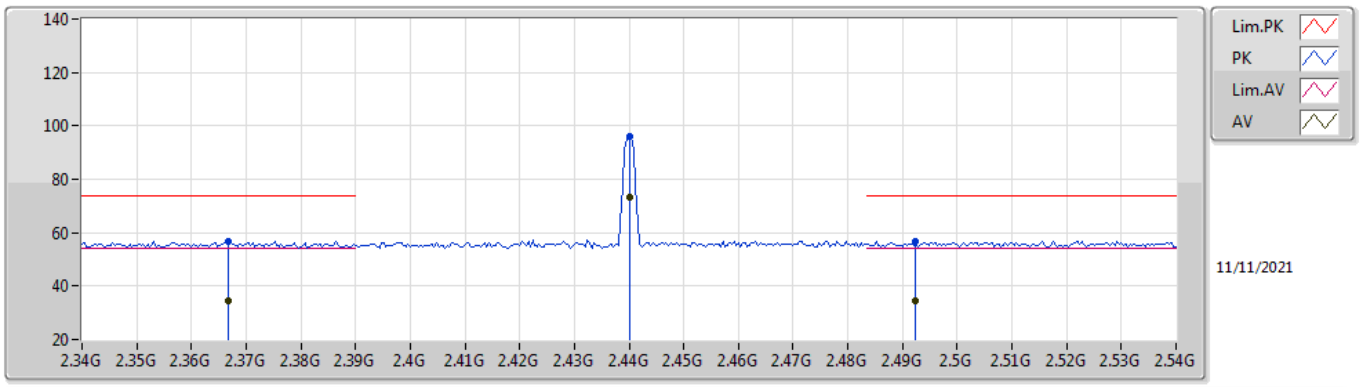
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.8038G	23.72	54.00	-30.28	2.95	3	Horizontal	153	1.33	-	20.77	31.10	6.66	34.81
PK	4.8038G	46.22	74.00	-27.78	2.95	3	Horizontal	153	1.33	-	43.27	31.10	6.66	34.81

BT-BR(1Mbps)

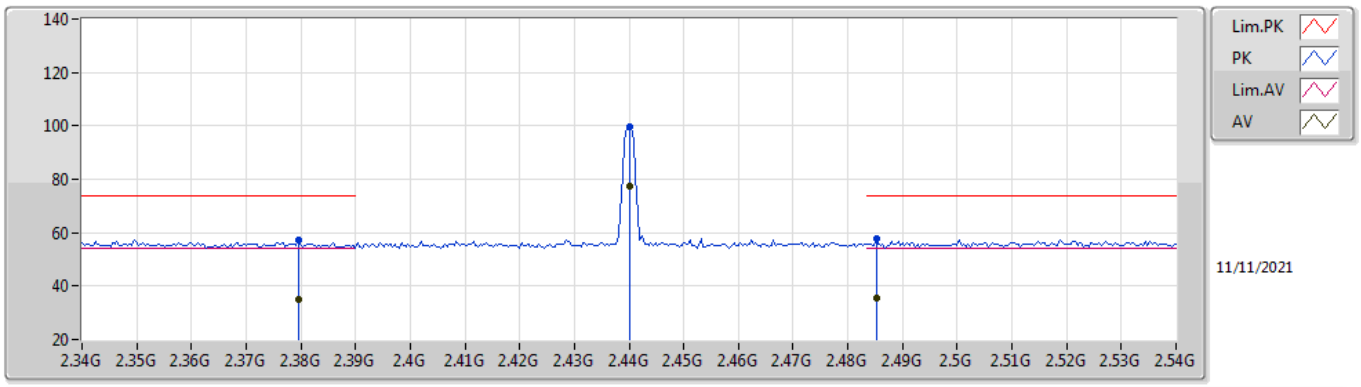
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3668G	34.42	54.00	-19.58	32.28	3	Vertical	115	1.19	-	2.14	27.73	4.55	-
AV	2.44G	73.37	Inf	-Inf	32.12	3	Vertical	115	1.19	-	41.25	27.52	4.60	-
AV	2.4924G	34.23	54.00	-19.77	32.12	3	Vertical	115	1.19	-	2.11	27.50	4.62	-
PK	2.3668G	56.92	74.00	-17.08	32.28	3	Vertical	115	1.19	-	24.64	27.73	4.55	-
PK	2.44G	95.87	Inf	-Inf	32.12	3	Vertical	115	1.19	-	63.75	27.52	4.60	-
PK	2.4924G	56.73	74.00	-17.27	32.12	3	Vertical	115	1.19	-	24.61	27.50	4.62	-

BT-BR(1Mbps)

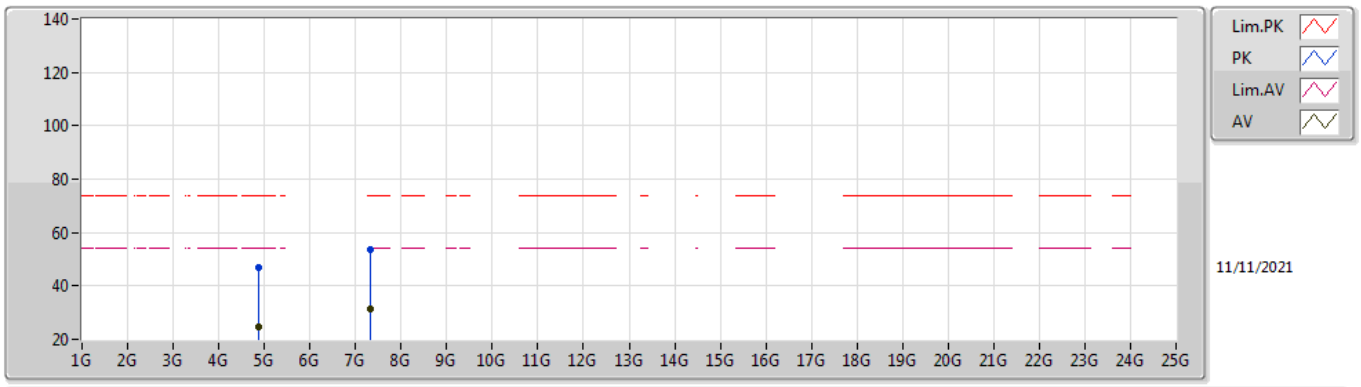
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3796G	34.81	54.00	-19.19	32.24	3	Horizontal	266	1.00	-	2.57	27.68	4.56	-
AV	2.44G	77.18	Inf	-Inf	32.12	3	Horizontal	266	1.00	-	45.06	27.52	4.60	-
AV	2.4852G	35.26	54.00	-18.74	32.11	3	Horizontal	266	1.00	-	3.15	27.50	4.61	-
PK	2.3796G	57.31	74.00	-16.69	32.24	3	Horizontal	266	1.00	-	25.07	27.68	4.56	-
PK	2.44G	99.68	Inf	-Inf	32.12	3	Horizontal	266	1.00	-	67.56	27.52	4.60	-
PK	2.4852G	57.76	74.00	-16.24	32.11	3	Horizontal	266	1.00	-	25.65	27.50	4.61	-

BT-BR(1Mbps)

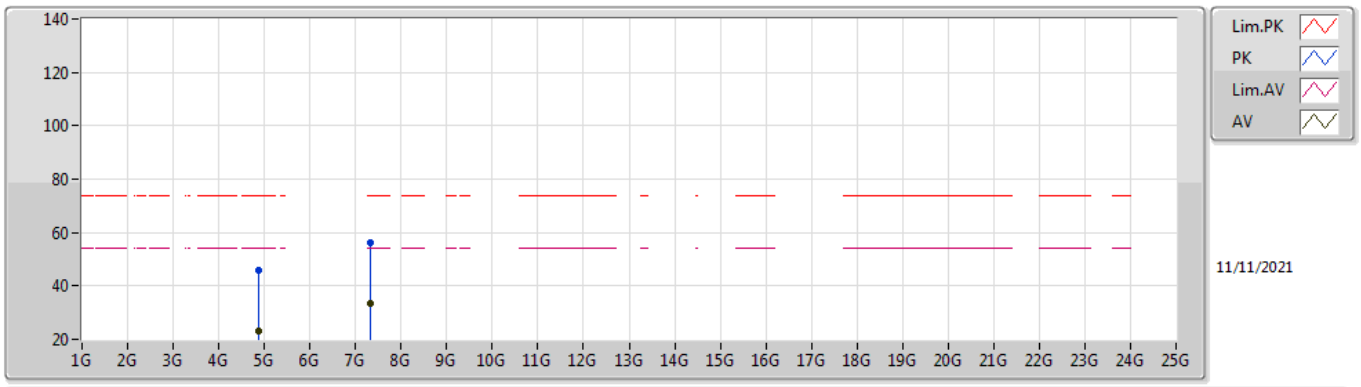
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87978G	24.40	54.00	-29.60	3.03	3	Vertical	41	2.78	-	21.37	31.10	6.72	34.79
AV	7.31951G	31.18	54.00	-22.82	9.41	3	Vertical	97	1.00	-	21.77	36.36	7.87	34.82
PK	4.87978G	46.90	74.00	-27.10	3.03	3	Vertical	41	2.78	-	43.87	31.10	6.72	34.79
PK	7.31951G	53.68	74.00	-20.32	9.41	3	Vertical	97	1.00	-	44.27	36.36	7.87	34.82

BT-BR(1Mbps)

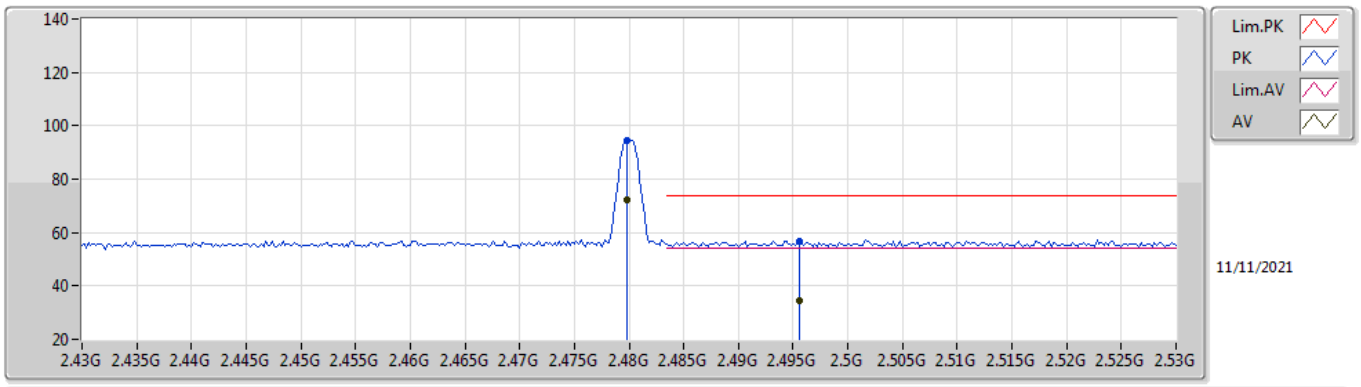
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.88004G	23.34	54.00	-30.66	3.03	3	Horizontal	150	1.52	-	20.31	31.10	6.72	34.79
AV	7.32042G	33.53	54.00	-20.47	9.41	3	Horizontal	53	2.11	-	24.12	36.36	7.87	34.82
PK	4.88004G	45.84	74.00	-28.16	3.03	3	Horizontal	150	1.52	-	42.81	31.10	6.72	34.79
PK	7.32042G	56.03	74.00	-17.97	9.41	3	Horizontal	53	2.11	-	46.62	36.36	7.87	34.82

BT-BR(1Mbps)

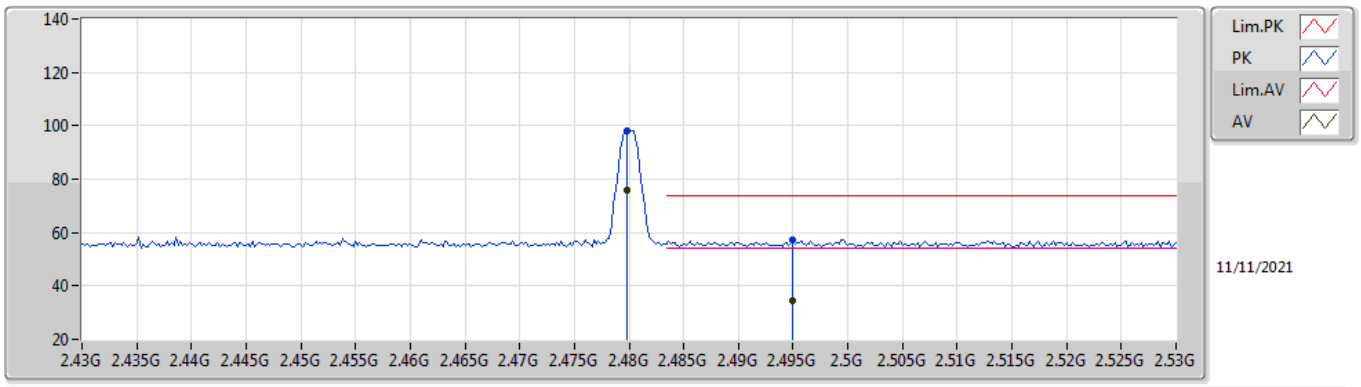
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4798G	72.08	Inf	-Inf	32.11	3	Vertical	143	1.73	-	39.97	27.50	4.61	-
AV	2.4956G	34.42	54.00	-19.58	32.12	3	Vertical	143	1.73	-	2.30	27.50	4.62	-
PK	2.4798G	94.58	Inf	-Inf	32.11	3	Vertical	143	1.73	-	62.47	27.50	4.61	-
PK	2.4956G	56.92	74.00	-17.08	32.12	3	Vertical	143	1.73	-	24.80	27.50	4.62	-

BT-BR(1Mbps)

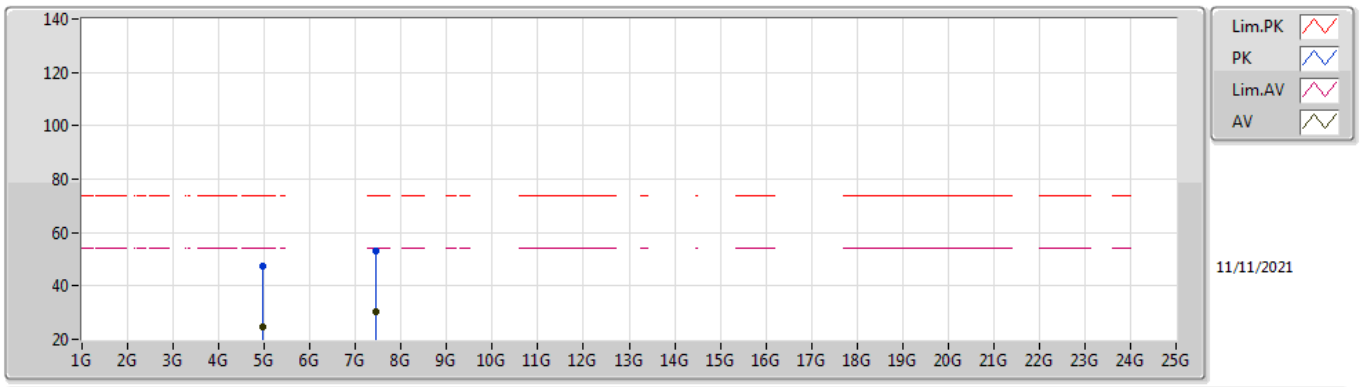
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4798G	75.85	Inf	-Inf	32.11	3	Horizontal	265	1.50	-	43.74	27.50	4.61	-
AV	2.495G	34.65	54.00	-19.35	32.12	3	Horizontal	265	1.50	-	2.53	27.50	4.62	-
PK	2.4798G	98.35	Inf	-Inf	32.11	3	Horizontal	265	1.50	-	66.24	27.50	4.61	-
PK	2.495G	57.15	74.00	-16.85	32.12	3	Horizontal	265	1.50	-	25.03	27.50	4.62	-

BT-BR(1Mbps)

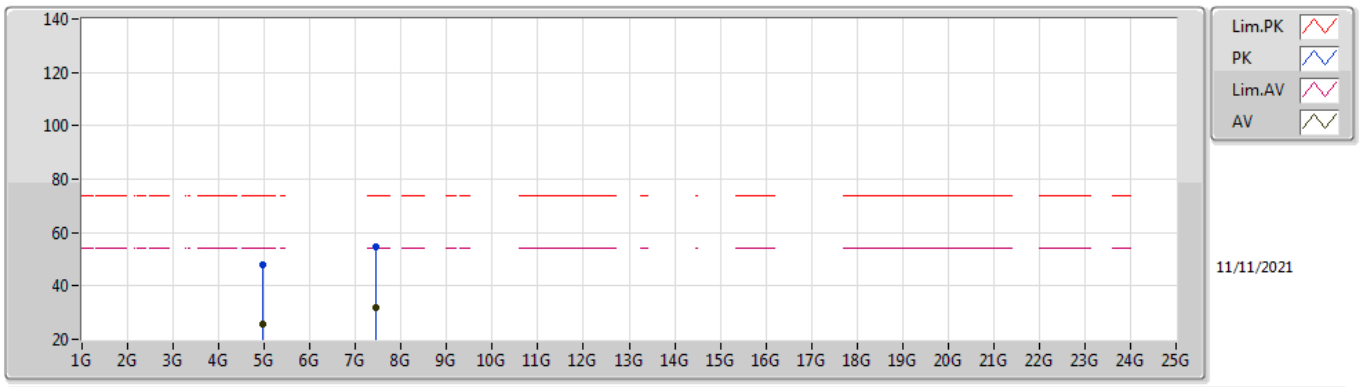
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.95995G	24.67	54.00	-29.33	3.35	3	Vertical	40	2.50	-	21.32	31.34	6.78	34.77
AV	7.43972G	30.39	54.00	-23.61	9.50	3	Vertical	259	2.22	-	20.89	36.28	8.06	34.84
PK	4.95995G	47.17	74.00	-26.83	3.35	3	Vertical	40	2.50	-	43.82	31.34	6.78	34.77
PK	7.43972G	52.89	74.00	-21.11	9.50	3	Vertical	259	2.22	-	43.39	36.28	8.06	34.84

BT-BR(1Mbps)

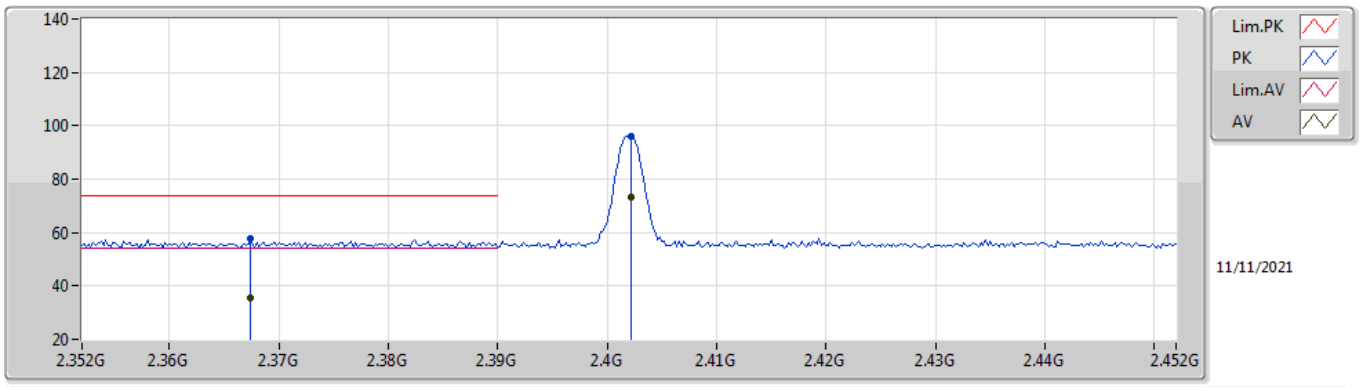
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.96046G	25.65	54.00	-28.35	3.35	3	Horizontal	36	2.81	-	22.30	31.34	6.78	34.77
AV	7.44059G	32.15	54.00	-21.85	9.50	3	Horizontal	72	2.15	-	22.65	36.28	8.06	34.84
PK	4.96046G	48.15	74.00	-25.85	3.35	3	Horizontal	36	2.81	-	44.80	31.34	6.78	34.77
PK	7.44059G	54.65	74.00	-19.35	9.50	3	Horizontal	72	2.15	-	45.15	36.28	8.06	34.84

BT-EDR(3Mbps)

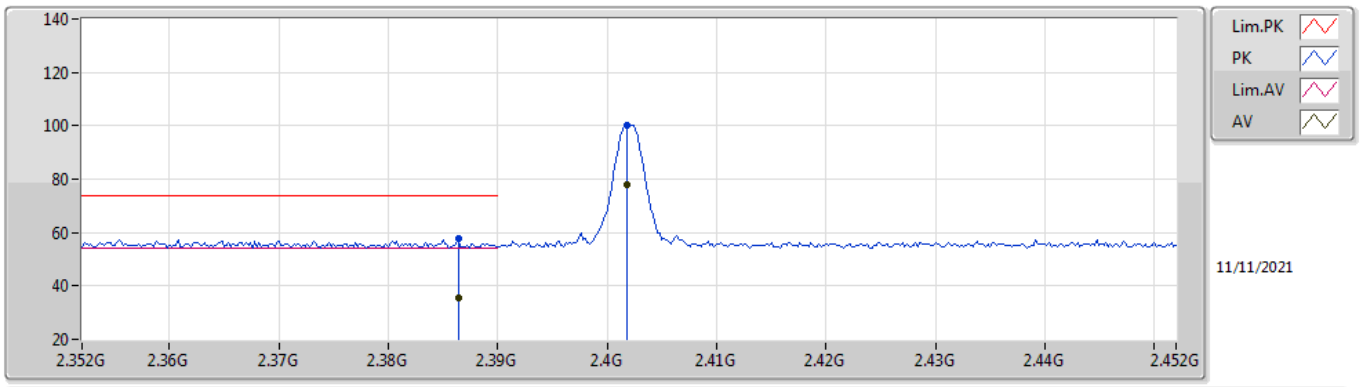
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3674G	35.40	54.00	-18.60	32.28	3	Vertical	94	1.28	-	3.12	27.73	4.55	-
AV	2.4022G	73.42	Inf	-Inf	32.18	3	Vertical	94	1.28	-	41.24	27.60	4.58	-
PK	2.3674G	57.90	74.00	-16.10	32.28	3	Vertical	94	1.28	-	25.62	27.73	4.55	-
PK	2.4022G	95.92	Inf	-Inf	32.18	3	Vertical	94	1.28	-	63.74	27.60	4.58	-

BT-EDR(3Mbps)

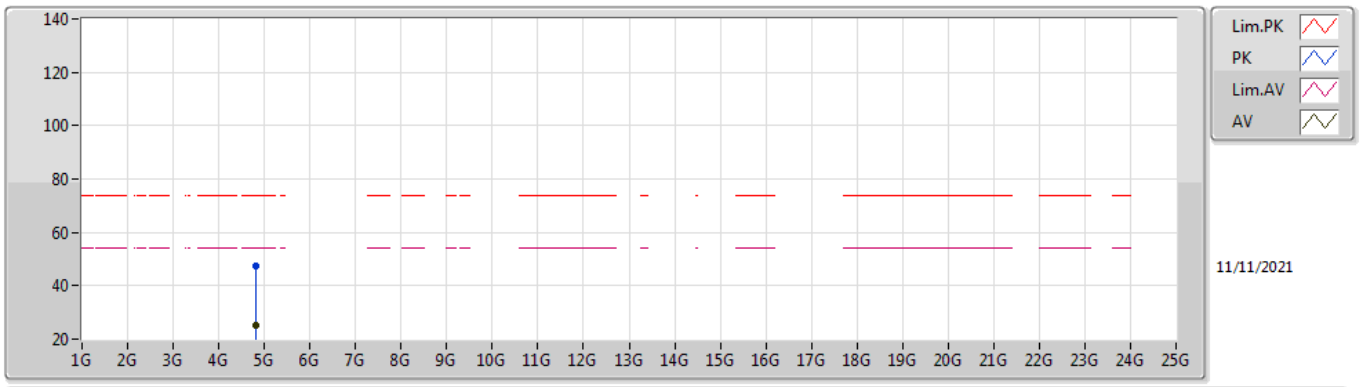
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3864G	35.33	54.00	-18.67	32.22	3	Horizontal	245	1.17	-	3.11	27.65	4.57	-
AV	2.4018G	77.89	Inf	-Inf	32.18	3	Horizontal	245	1.17	-	45.71	27.60	4.58	-
PK	2.3864G	57.83	74.00	-16.17	32.22	3	Horizontal	245	1.17	-	25.61	27.65	4.57	-
PK	2.4018G	100.39	Inf	-Inf	32.18	3	Horizontal	245	1.17	-	68.21	27.60	4.58	-

BT-EDR(3Mbps)

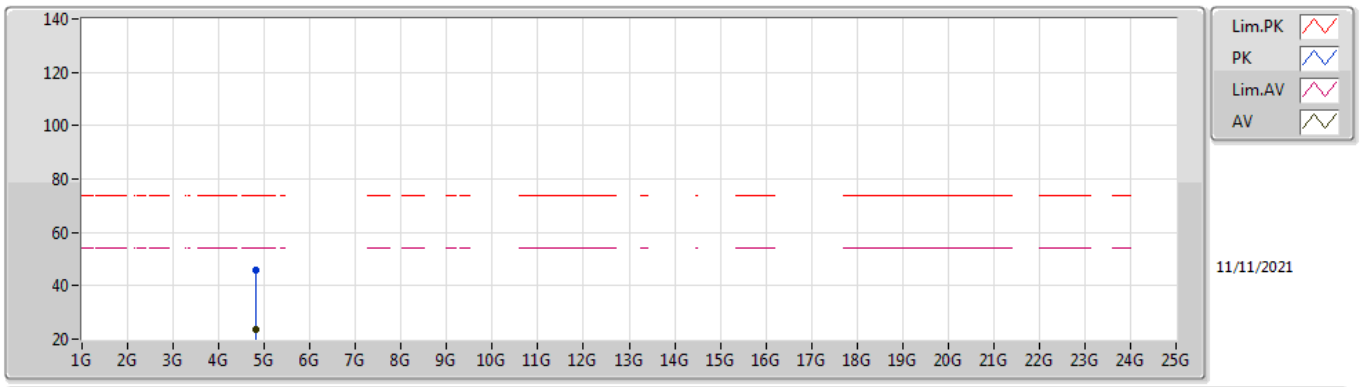
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.80476G	25.08	54.00	-28.92	2.95	3	Vertical	144	1.04	-	22.13	31.10	6.66	34.81
PK	4.80476G	47.58	74.00	-26.42	2.95	3	Vertical	144	1.04	-	44.63	31.10	6.66	34.81

BT-EDR(3Mbps)

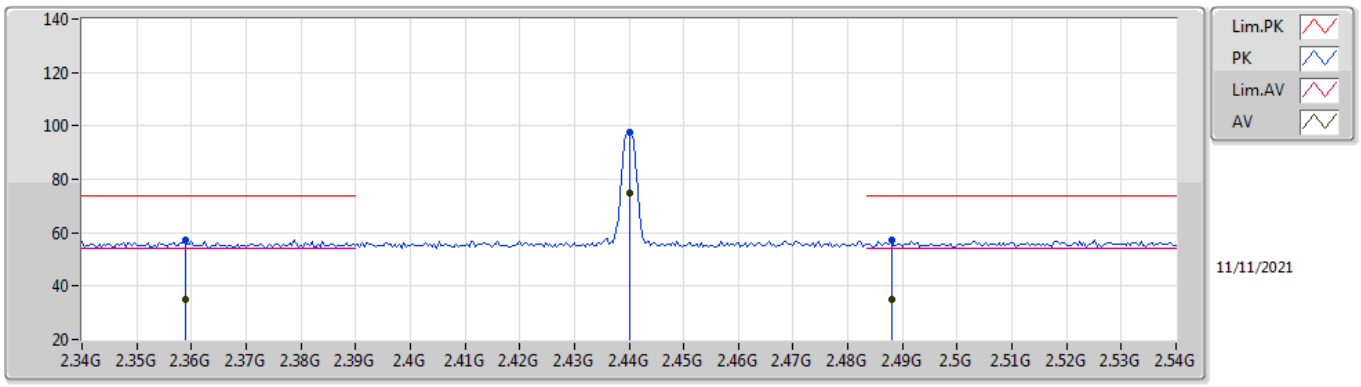
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.8047G	23.62	54.00	-30.38	2.95	3	Horizontal	152	1.50	-	20.67	31.10	6.66	34.81
PK	4.8047G	46.12	74.00	-27.88	2.95	3	Horizontal	152	1.50	-	43.17	31.10	6.66	34.81

BT-EDR(3Mbps)

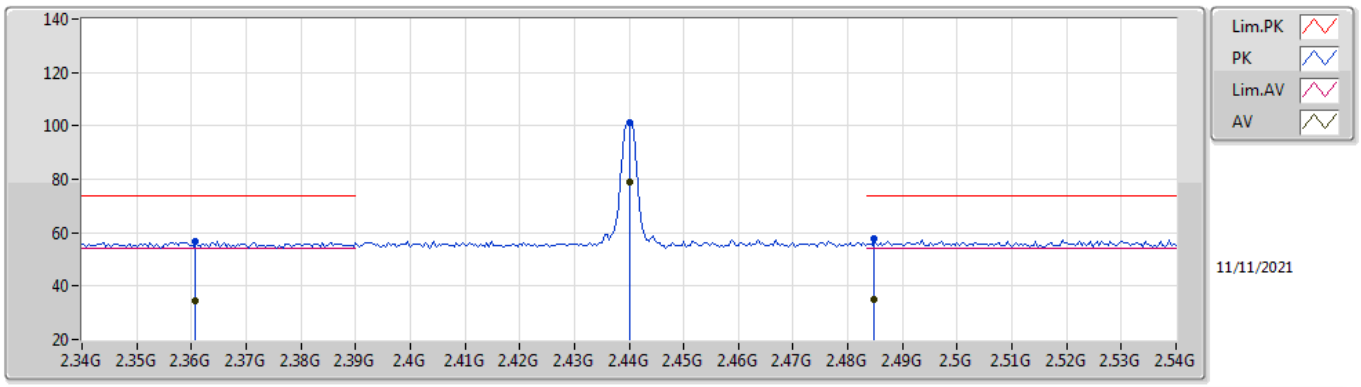
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3588G	34.81	54.00	-19.19	32.30	3	Vertical	114	1.19	-	2.51	27.76	4.54	-
AV	2.44G	75.04	Inf	-Inf	32.12	3	Vertical	114	1.19	-	42.92	27.52	4.60	-
AV	2.488G	34.99	54.00	-19.01	32.12	3	Vertical	114	1.19	-	2.87	27.50	4.62	-
PK	2.3588G	57.31	74.00	-16.69	32.30	3	Vertical	114	1.19	-	25.01	27.76	4.54	-
PK	2.44G	97.54	Inf	-Inf	32.12	3	Vertical	114	1.19	-	65.42	27.52	4.60	-
PK	2.488G	57.49	74.00	-16.51	32.12	3	Vertical	114	1.19	-	25.37	27.50	4.62	-

BT-EDR(3Mbps)

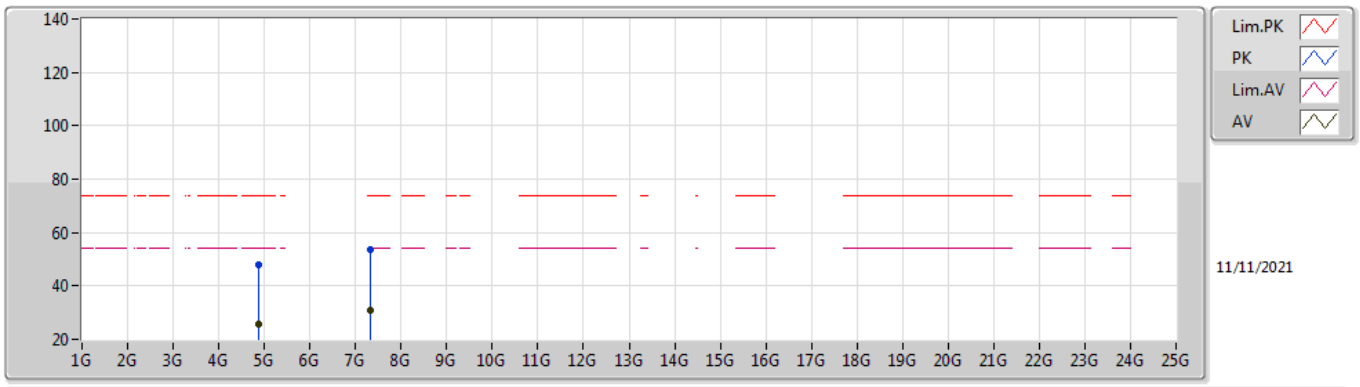
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3608G	34.24	54.00	-19.76	32.30	3	Horizontal	266	1.18	-	1.94	27.76	4.54	-
AV	2.44G	78.74	Inf	-Inf	32.12	3	Horizontal	266	1.18	-	46.62	27.52	4.60	-
AV	2.4848G	35.19	54.00	-18.81	32.11	3	Horizontal	266	1.18	-	3.08	27.50	4.61	-
PK	2.3608G	56.74	74.00	-17.26	32.30	3	Horizontal	266	1.18	-	24.44	27.76	4.54	-
PK	2.44G	101.24	Inf	-Inf	32.12	3	Horizontal	266	1.18	-	69.12	27.52	4.60	-
PK	2.4848G	57.69	74.00	-16.31	32.11	3	Horizontal	266	1.18	-	25.58	27.50	4.61	-

BT-EDR(3Mbps)

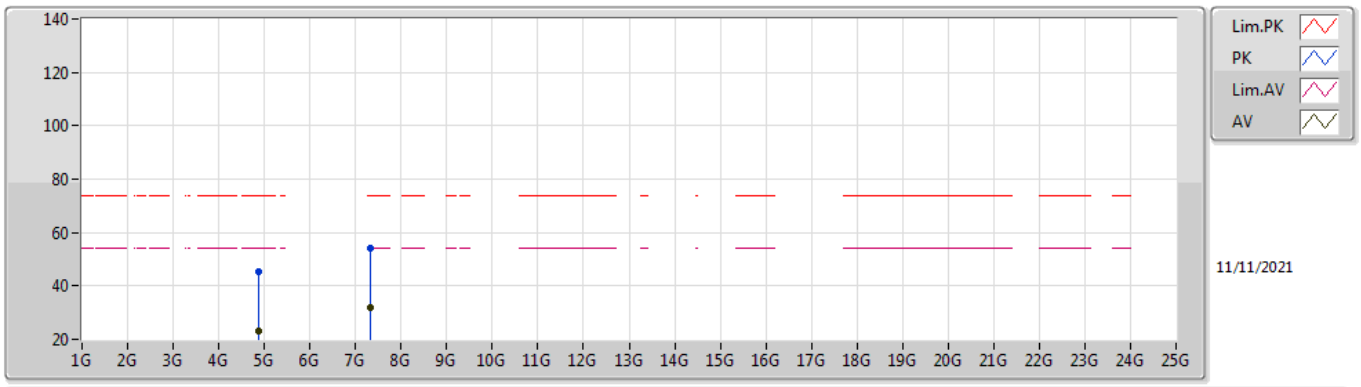
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87998G	25.51	54.00	-28.49	3.03	3	Vertical	93	1.00	-	22.48	31.10	6.72	34.79
AV	7.32054G	31.08	54.00	-22.92	9.41	3	Vertical	98	1.06	-	21.67	36.36	7.87	34.82
PK	4.87998G	48.01	74.00	-25.99	3.03	3	Vertical	93	1.00	-	44.98	31.10	6.72	34.79
PK	7.32054G	53.58	74.00	-20.42	9.41	3	Vertical	98	1.06	-	44.17	36.36	7.87	34.82

BT-EDR(3Mbps)

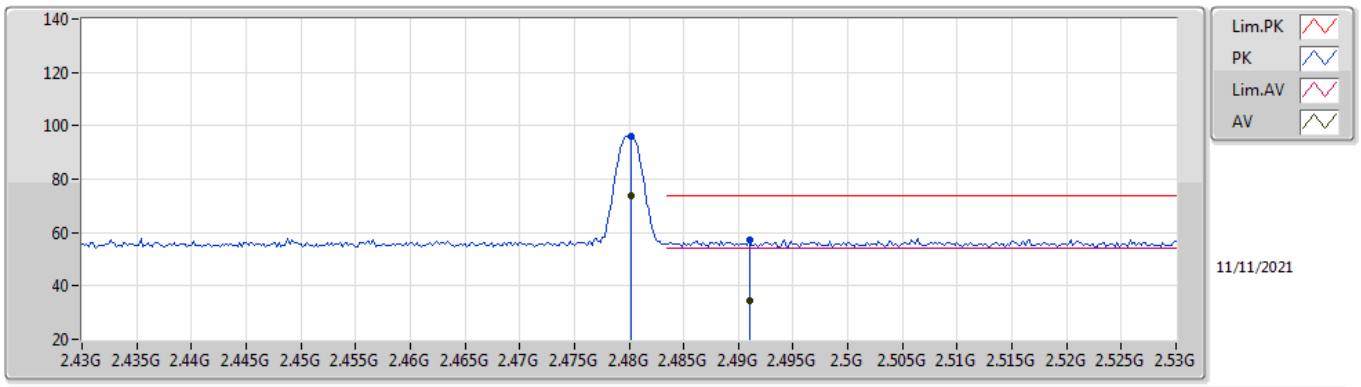
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87967G	22.94	54.00	-31.06	3.03	3	Horizontal	151	1.50	-	19.91	31.10	6.72	34.79
AV	7.32028G	31.87	54.00	-22.13	9.41	3	Horizontal	34	2.89	-	22.46	36.36	7.87	34.82
PK	4.87967G	45.44	74.00	-28.56	3.03	3	Horizontal	151	1.50	-	42.41	31.10	6.72	34.79
PK	7.32028G	54.37	74.00	-19.63	9.41	3	Horizontal	34	2.89	-	44.96	36.36	7.87	34.82

BT-EDR(3Mbps)

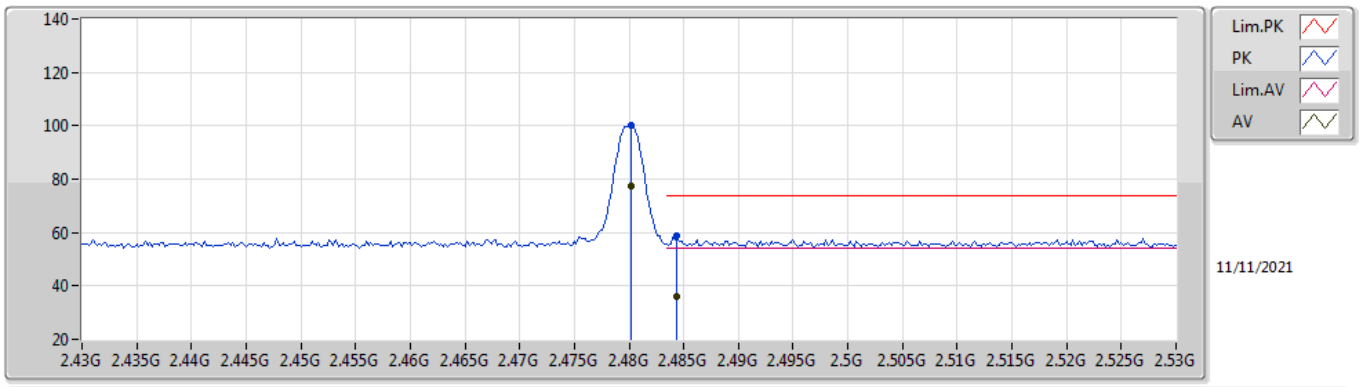
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4802G	73.62	Inf	-Inf	32.11	3	Vertical	143	1.73	-	41.51	27.50	4.61	-
AV	2.491G	34.71	54.00	-19.29	32.12	3	Vertical	143	1.73	-	2.59	27.50	4.62	-
PK	2.4802G	96.12	Inf	-Inf	32.11	3	Vertical	143	1.73	-	64.01	27.50	4.61	-
PK	2.491G	57.21	74.00	-16.79	32.12	3	Vertical	143	1.73	-	25.09	27.50	4.62	-

BT-EDR(3Mbps)

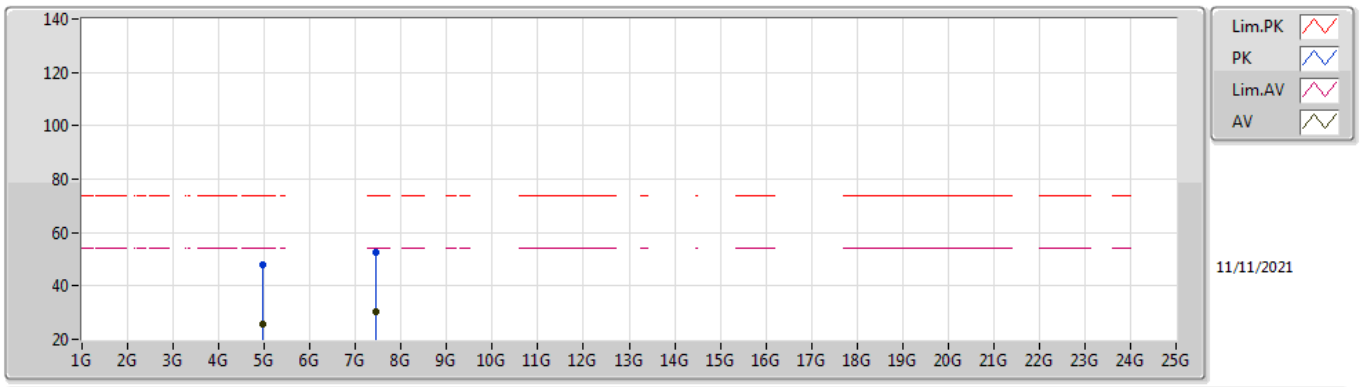
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4802G	77.42	Inf	-Inf	32.11	3	Horizontal	265	1.04	-	45.31	27.50	4.61	-
AV	2.4844G	36.09	54.00	-17.91	32.11	3	Horizontal	265	1.04	-	3.98	27.50	4.61	-
PK	2.4802G	99.92	Inf	-Inf	32.11	3	Horizontal	265	1.04	-	67.81	27.50	4.61	-
PK	2.4844G	58.59	74.00	-15.41	32.11	3	Horizontal	265	1.04	-	26.48	27.50	4.61	-

BT-EDR(3Mbps)

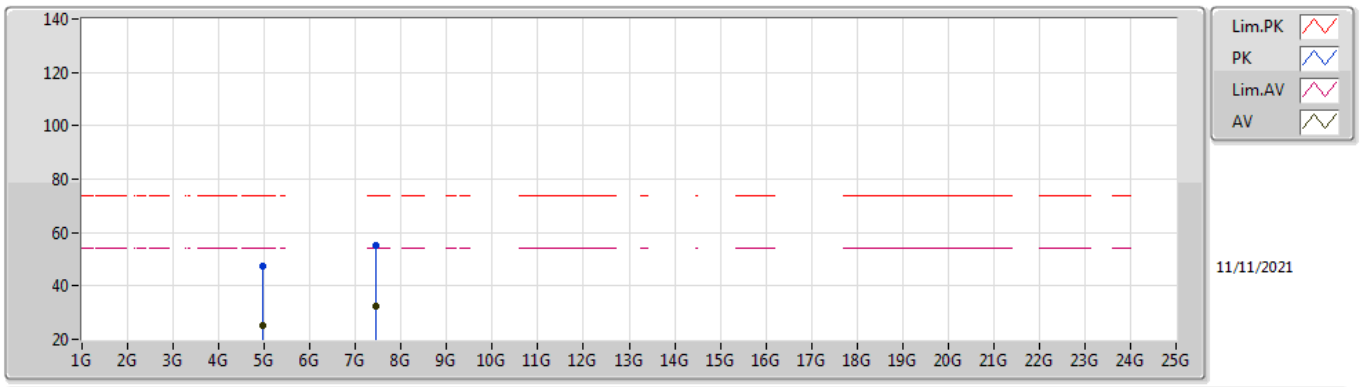
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.96034G	25.68	54.00	-28.32	3.35	3	Vertical	336	1.03	-	22.33	31.34	6.78	34.77
AV	7.43997G	30.24	54.00	-23.76	9.50	3	Vertical	5	1.50	-	20.74	36.28	8.06	34.84
PK	4.96034G	48.18	74.00	-25.82	3.35	3	Vertical	336	1.03	-	44.83	31.34	6.78	34.77
PK	7.43997G	52.74	74.00	-21.26	9.50	3	Vertical	5	1.50	-	43.24	36.28	8.06	34.84

BT-EDR(3Mbps)

2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.95974G	25.13	54.00	-28.87	3.35	3	Horizontal	23	2.12	-	21.78	31.34	6.78	34.77
AV	7.43926G	32.43	54.00	-21.57	9.49	3	Horizontal	73	2.13	-	22.94	36.28	8.05	34.84
PK	4.95974G	47.63	74.00	-26.37	3.35	3	Horizontal	23	2.12	-	44.28	31.34	6.78	34.77
PK	7.43926G	54.93	74.00	-19.07	9.49	3	Horizontal	73	2.13	-	45.44	36.28	8.05	34.84

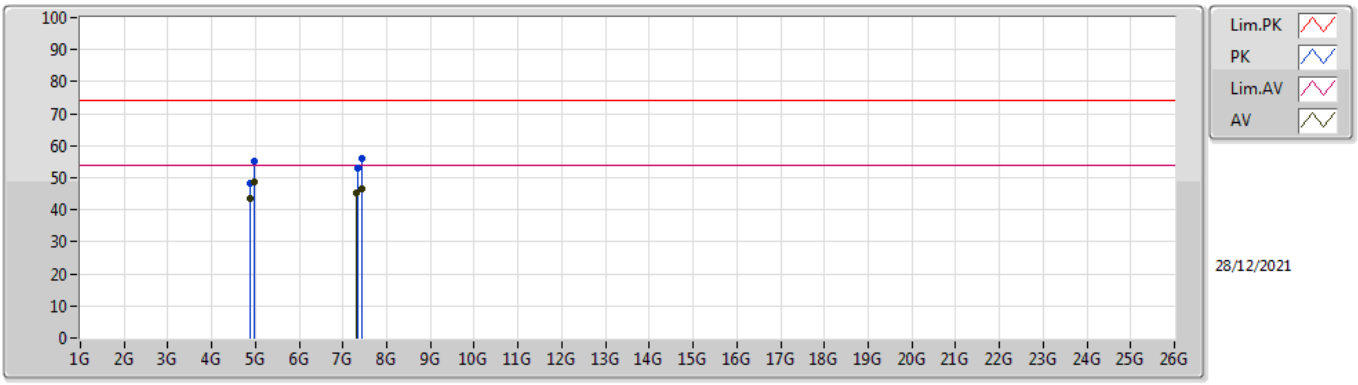
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	4.9602G	53.20	54.00	-0.80	Horizontal

Mode Configure

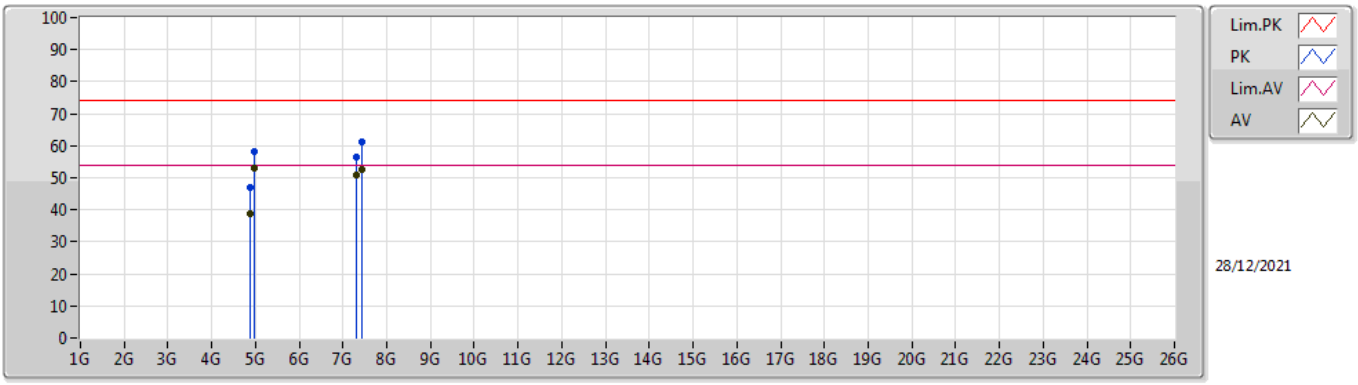
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	4.87987G	43.32	54.00	-10.68	3	Vertical	215	2.64	-
Mode 1	Pass	AV	4.96021G	48.58	54.00	-5.42	3	Vertical	215	2.89	-
Mode 1	Pass	AV	7.31973G	45.29	54.00	-8.71	3	Vertical	0	1.44	-
Mode 1	Pass	AV	7.44057G	46.72	54.00	-7.28	3	Vertical	109	1.87	-
Mode 1	Pass	PK	4.87895G	48.48	74.00	-25.52	3	Vertical	215	2.64	-
Mode 1	Pass	PK	4.95963G	55.08	74.00	-18.92	3	Vertical	215	2.89	-
Mode 1	Pass	PK	7.32124G	52.97	74.00	-21.03	3	Vertical	0	1.44	-
Mode 1	Pass	PK	7.44078G	55.87	74.00	-18.13	3	Vertical	109	1.87	-
Mode 1	Pass	AV	4.87985G	38.92	54.00	-15.08	3	Horizontal	166	1.50	-
Mode 1	Pass	AV	4.9602G	53.20	54.00	-0.80	3	Horizontal	320	2.08	-
Mode 1	Pass	AV	7.3199G	50.72	54.00	-3.28	3	Horizontal	228	1.75	-
Mode 1	Pass	AV	7.44059G	52.58	54.00	-1.42	3	Horizontal	273	2.10	-
Mode 1	Pass	PK	4.87899G	46.82	74.00	-27.18	3	Horizontal	166	1.50	-
Mode 1	Pass	PK	4.95941G	58.06	74.00	-15.94	3	Horizontal	320	2.08	-
Mode 1	Pass	PK	7.31824G	56.45	74.00	-17.55	3	Horizontal	228	1.75	-
Mode 1	Pass	PK	7.44069G	61.05	74.00	-12.95	3	Horizontal	273	2.10	-

Radiated Emissions above 1GHz_Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
AV	4.87987G	43.32	54.00	-10.68	3.03	3	Vertical	215	2.64	-	40.29	31.10	6.72	34.79
AV	4.96021G	48.58	54.00	-5.42	3.35	3	Vertical	215	2.89	-	45.23	31.34	6.78	34.77
AV	7.31973G	45.29	54.00	-8.71	9.41	3	Vertical	0	1.44	-	35.88	36.36	7.87	34.82
AV	7.44057G	46.72	54.00	-7.28	9.50	3	Vertical	109	1.87	-	37.22	36.28	8.06	34.84
PK	4.87895G	48.48	74.00	-25.52	3.03	3	Vertical	215	2.64	-	45.45	31.10	6.72	34.79
PK	4.95963G	55.08	74.00	-18.92	3.35	3	Vertical	215	2.89	-	51.73	31.34	6.78	34.77
PK	7.32124G	52.97	74.00	-21.03	9.42	3	Vertical	0	1.44	-	43.55	36.36	7.88	34.82
PK	7.44078G	55.87	74.00	-18.13	9.50	3	Vertical	109	1.87	-	46.37	36.28	8.06	34.84

Radiated Emissions above 1GHz_Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
AV	4.87985G	38.92	54.00	-15.08	3.03	3	Horizontal	166	1.50	-	35.89	31.10	6.72	34.79
AV	4.9602G	53.20	54.00	-0.80	3.35	3	Horizontal	320	2.08	-	49.85	31.34	6.78	34.77
AV	7.3199G	50.72	54.00	-3.28	9.41	3	Horizontal	228	1.75	-	41.31	36.36	7.87	34.82
AV	7.44059G	52.58	54.00	-1.42	9.50	3	Horizontal	273	2.10	-	43.08	36.28	8.06	34.84
PK	4.87899G	46.82	74.00	-27.18	3.03	3	Horizontal	166	1.50	-	43.79	31.10	6.72	34.79
PK	4.95941G	58.06	74.00	-15.94	3.35	3	Horizontal	320	2.08	-	54.71	31.34	6.78	34.77
PK	7.31824G	56.45	74.00	-17.55	9.41	3	Horizontal	228	1.75	-	47.04	36.36	7.87	34.82
PK	7.44069G	61.05	74.00	-12.95	9.50	3	Horizontal	273	2.10	-	51.55	36.28	8.06	34.84