FCC Radio Test Report

FCC ID	:	**QXO-AP3000**
Equipment	:	**Access Point**
Brand Name	:	Extreme networks or Extreme Networks
Model Name	:	**AP3000-WW, AP3000X-WW**
Applicant	:	**Extreme Networks, Inc. 2121 RDU Center Drive, Morrisville, NC 27560, United States**
Manufacturer	:	**Extreme Networks, Inc. 2121 RDU Center Drive, Morrisville, NC 27560, United States**
Standard	:	**47 CFR FCC Part 15.247**

The product was received on Apr. 07, 2022, and testing was started from Apr. 25, 2022 and completed on Sep. 12, 2022. 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.

Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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PHOTOGRAPHS OF EUT V03

History of this test report

Report No.	Version	Description	Issued Date
FR232478AL	01	Initial issue of report	Nov. 18, 2022
FR232478AL	02	1.External Antenna (AP3000X) were added.(Ant.11,12) 2.Photographs Of EUT was update. (This report is the latest version replacing for the report issued on Nov. 18, 2022.)	Dec. 26, 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)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	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: Barry Hsiao

Report Producer: Ann Hou

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number
2400-2483.5	LE	2402-2480	0-39 [40]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-LE(1Mbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(125kbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(500kbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(2Mbps)	2.0	1TX

Note:
- Bluetooth LE uses a GFSK (125kbps/500kbps/1Mbps/2Mbps) modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Internal Antenna (AP3000)

Ant.	Brand	Model Name	Antenna Type	Connector	Remark
1	Senao	5718A0691300	PIFA	I-PEX	Radio 1_5G+ Radio 2_2.4G
2	Senao	5718A0690300	PIFA	I-PEX	Radio 1_5G+ Radio 2_2.4G
3	Senao	5718A0693300	PIFA	I-PEX	Radio 2_6E
4	Senao	5718A0692300	PIFA	I-PEX	Radio 2_6E
5	Senao	5718A0694300	PIFA	I-PEX	Radio 3_ BT+802.15.4

Ant.	Port	Gain (dBi)				
		2.4G	5G	6E	BT	802.15.4
1	1	4.40	5.14	-	-	-
2	2	4.38	5.13	-	-	-
3	1	-	-	5.22	-	-
4	2	-	-	5.21	-	-
5	1	-	-	-	4.02	4.02

Composite Gain (dBi)			
2.4G		5G	
2T1S	2T2S	2T1S	2T2S
5.85	2.85	4.95	2.52

Note 1: The EUT has five antennas.

For 2.4GHz function:

For IEEE 802.11 b/g/n/ax mode (1TX/1RX)

Support diversity function and pre-tested on each single chain, the worst case was Ant. 2(port 2) and it was recorded in this test report.

For IEEE 802.11 b/g/n/ax mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax mode (1TX/1RX)

Support diversity function and pre-tested on each single chain, the worst case was Ant. 2(port 2) and it was recorded in this test report.

For IEEE 802.11 a/n/ac/ax mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For 6GHz function:

For IEEE 802.11 a/ax mode (1TX/1RX)

Support diversity function and pre-tested on each single chain, the worst case was Ant. 4(port 2) and it was recorded in this test report.

For IEEE 802.11 a/ax mode (2TX/2RX)

Ant. 3 (port 1) and Ant. 4 (port 2) could transmit/receive simultaneously.

For BT function:

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

Ant. 5 (port 1) could transmit/receive.

For 802.15.4 function:

For IEEE 802.15.4 mode (1TX/1RX)

Ant. 5 (port 1) could transmit/receive.

External Antenna (AP3000X)

Ant.	Brand	Model Name	Antenna Type	Connector	Remark
1	WNC	ML2452-APA2-02	Dipole	Reverse SMA	Radio 1_5G+ Radio 2_2.4G
2	WNC	ML2452-APA2-02	Dipole	Reverse SMA	Radio 1_5G+ Radio 2_2.4G
3	AWAN	7102A0545000	Dipole	Reverse SMA	Radio 1_5G+ Radio 2_2.4G
4	AWAN	7102A0545000	Dipole	Reverse SMA	Radio 1_5G+ Radio 2_2.4G
5	Extreme	ML-2452-HPAG5A8-01	Omni	N-type	Radio 1_5G+ Radio 2_2.4G
6	Extreme	ML-2452-HPAG5A8-01	Omni	N-type	Radio 1_5G+ Radio 2_2.4G
7	MARS	MA-WC2458-2H	Panel	Reverse SMA	Radio 1_5G+ Radio 2_2.4G
8	AWAN	7102A0547000	Dipole	I-Pex	Radio 2_6E
9	AWAN	7102A0546000	Dipole	I-Pex	Radio 2_6E
10	Senao	5718A0694300	PIFA	I-Pex	Radio 3_ BT+802.15.4
11	Ventev	M6030040O1D3620DP	Panel	Reverse SMA	Radio 1_5G+ Radio 2_2.4G
12	Ventev	M6040060O2D2402	Panel	Reverse SMA	Radio 1_5G+ Radio 2_2.4G

Ant.	Gain (dBi)				
	2.4G	5G	6E	BT	802.15.4
1	3.04	4.96	-	-	-
2	3.04	4.96	-	-	-
3	3.23	5.22	-	-	-
4	3.23	5.22	-	-	-
5	5	8	-	-	-
6	5	8	-	-	-
7	7.5	7.5	-	-	-
8	-	-	5.49	-	-
9	-	-	5.49	-	-
10	-	-	-	4.02	4.02
11	2.94	4.62	-	-	-
12	2.97	4.94	-	-	-

Note 1: The EUT has ten antennas.
Note 2: The antenna mentioned above will not be sold with the EUT in the market. (except Dipole Antenna_7102A0545000)
Note 3: EUT can match with above antennas for using. Higher gain in each type of antenna was used to perform the worst configuration and result of that was recorded as the final test result.

For 2.4GHz function:
For IEEE 802.11 b/g/n/ax mode (1TX/1RX)
Support diversity function and pre-tested on each single chain, the worst case was Ant. 3 (port 1), Ant. 5 (port 1), Ant. 7 (port 1) and it was recorded in this test report.
For IEEE 802.11 b/g/n/ax mode (2TX/2RX)
Ant. 1~2, Ant. 3~4, Ant. 5~6, Ant. 7, Ant 11, Ant 12 could transmit/receive simultaneously.

For 5GHz function:
For IEEE 802.11 a/n/ac/ax mode (1TX/1RX)
Support diversity function and pre-tested on each single chain, the worst case was Ant. 3 (port 1), Ant. 6 (port 2), Ant. 7 (port 2) and it was recorded in this test report.
For IEEE 802.11 a/n/ac/ax mode (2TX/2RX)
Ant. 1~2, Ant. 3~4, Ant. 5~6 Ant. 7, Ant 11, Ant 12 could transmit/receive simultaneously.

For 6GHz function:
For IEEE 802.11 a/ax mode (1TX/1RX)
Support diversity function and pre-tested on each single chain, the worst case was Ant. 9 (port 2) and it was recorded in this test report.
For IEEE 802.11 a/ax mode (2TX/2RX)
Ant. 8 and Ant. 9 could transmit/receive simultaneously.

For BT function:
For IEEE 802.15.1 Bluetooth mode (1TX/1RX)
Ant. 10 could transmit/receive.

For 802.15.4 function:
For IEEE 802.15.4 mode (1TX/1RX)
Ant. 10 could transmit/receive.

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From AC Adapter			
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-LE(1Mbps)	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
BT-LE(125kbps)	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
BT-LE(500kbps)	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
BT-LE(2Mbps)	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)

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

1.1.5 Table for Multiple Listing

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

Model Name	Description
AP3000-WW, AP3000X-WW	The “X” in AP3000X-WW SKU indicates that it comes with external antenna

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	**ADD:** No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
(TAF: 3785**)**	**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	CO01-HY	Jack	22.0~22.5°C / 55~57%	12/May/2022~13/May/2022
RF Conducted	TH01-HY	Johnny	22.3~25.6°C / 51~60%	09/May/2022~12/Sep/2022
Radiated	03CH02-HY	Lego	21.5~22.3°C / 51~56%	25/Apr/2022~06/Sep/2022
Radiated (Co-location)	03CH03-HY	Edward	21.5~22.3°C / 51~56%	22/Aug/2022
☐ Wen 33rd.St.	**ADD:** No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
(TAF: 3785**)**	**TEL:** 886-3-318-0787		**FAX:** 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				

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**
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Emissions in Non-restricted Frequency Bands	0.14 dB	Confidence levels of 95%
Emissions in Restricted Frequency Bands	4.8 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	Setup_SmartRF_Studio_7-2.17.0

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	5
2440MHz	5
2480MHz	5
BT-LE(2Mbps)	-
2402MHz	5
2440MHz	5
2480MHz	5
BT-LE(125kbps)	-
2402MHz	5
2440MHz	5
2480MHz	5
BT-LE(500kbps)	-
2402MHz	5
2440MHz	5
2480MHz	5

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains

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		
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	5GHz WLAN + 2.4GHz WLAN + Bluetooth
2	5GHz WLAN + 6GHz WLAN + Bluetooth
3	5GHz WLAN + 2.4GHz WLAN + 802.15.4
4	5GHz WLAN + 6GHz WLAN + 802.15.4
Refer to Sporton Test Report No.: FA232478 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.3 Accessories

Accessories				
SPECIAL WALL BKT	Brand Name	COMING	Model Name	6309Aq493000
Antenna (For AP3000X)	Brand Name	AWAN	Model Name	7102A0545000

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

2.4 Support Equipment

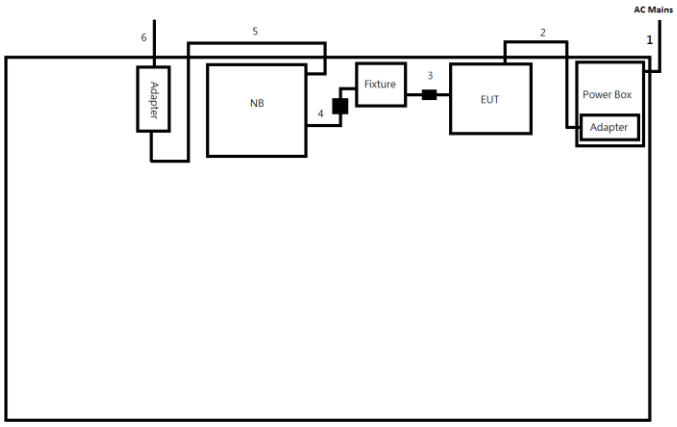
Support Equipment – AC Conduction					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	HP	5220M	-	-
2	AC Power Cable	Power sync	PW-GPC180-3	-	-
3	Adapter for NB	HP	PPP012L-E	-	-
4	AC Adapter	Powertron Electronics Corp.	PA1024-120IB200	-	-
5	Fixture	TI	CC2642R1/CC2652R1 Development Kit	-	Provided by Customer

Support Equipment – Conducted					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	AC Adapter	Powertron Electronics Corp.	PA1024-120IB200	-	-
4	Fixture	TI	CC2642R1/CC2652R1 Development Kit	-	Provided by Customer

Support Equipment – Radiated					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	HP	5220M	-	-
2	Adapter for NB	HP	PPP012L-E	-	-
3	Adapter	Powertron Electronics Corp.	PA1024-120IB200	-	-
4	Omni Antenna	Extreme	ML-2452-HPAG5A8-01	-	-
5	Panel Antenna	MARS	MA-WC2458-2H	-	-

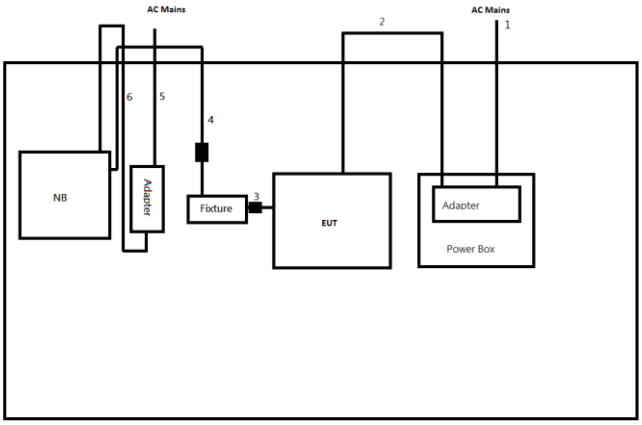
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length (m)
1	AC Power cable	No	1.8
2	DC Power cable	No	1.5
3	Fixture cable	No	0.15
4	USB cable	No	1
5	DC Power cable	No	1.8
6	AC Power cable	No	1.8

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length (m)
1	AC Power cable	No	1.8
2	DC Power cable	No	1.5
3	Fixture	No	0.2
4	USB cable	No	0.5
5	AC Power cable	No	1.8
6	DC Power cable	No	1.8

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

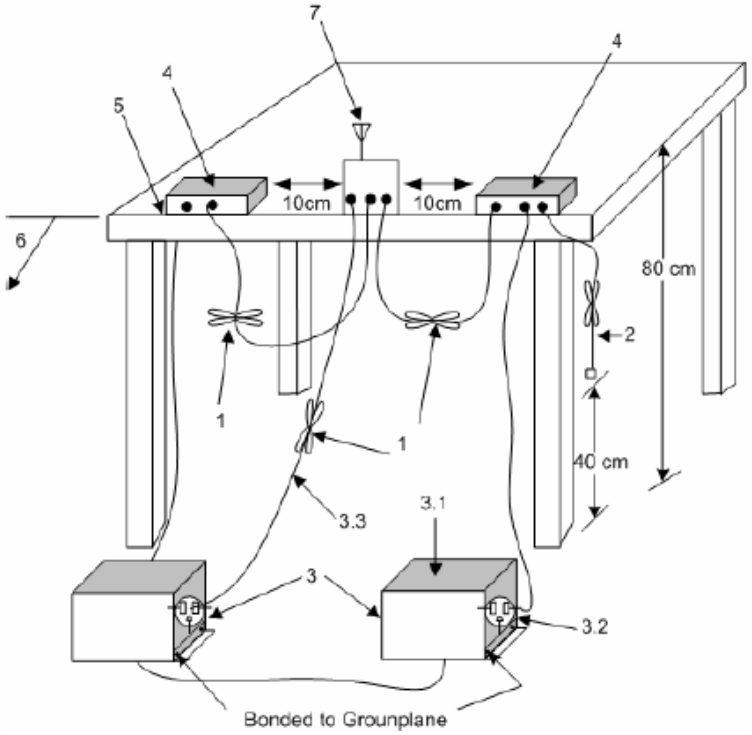
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions.

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 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
▪ 6 dB bandwidth ≥ 500 kHz.

3.2.2 Measuring Instruments

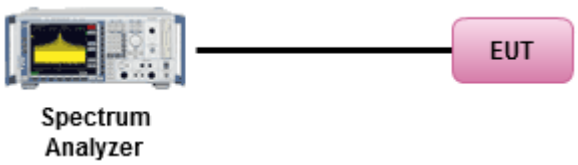
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
	☒ Refer as KDB 558074, clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
	☐ Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
	☐ Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup

Emission Bandwidth



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit			
	▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)		
	▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)$ dBm		
	▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm		
	▪ Smart antenna system (SAS):		
		- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm	
		- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm	
		- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3 + 8$dB dBm	
e.i.r.p. Power Limit:			
▪ 2400-2483.5 MHz Band			
	▪ Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)		
	▪ Point-to-point systems (P2P): $P_{eirp} \leq MAX(36, [P_{Out} + G_{TX}])$ dBm		
	▪ Smart antenna system (SAS)		
		- Single beam: $P_{eirp} \leq MAX(36, P_{Out} + G_{TX})$ dBm	
		- Overlap beam: $P_{eirp} \leq MAX(36, P_{Out} + G_{TX})$ dBm	
		- Aggregate power on all beams: $P_{eirp} \leq MAX(36, [P_{Out} + G_{TX} + 8])$ dBm	
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, **G_{TX}** = the maximum transmitting antenna directional gain in dBi.			

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
▪ Maximum Peak Conducted Output Power	
	☐ Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
	☐ Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
	☐ Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
▪ Maximum Average Conducted Output Power	
	☐ Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
	☒ Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
▪ For conducted measurement.	
	▪ If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

Maximum Conducted Output Power (Power Meter)

3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
▪ Power Spectral Density (PSD)≤8 dBm/3kHz

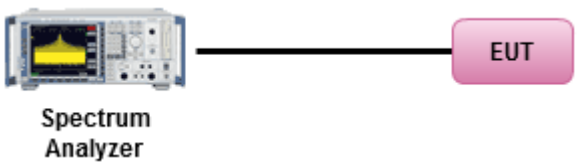
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method		
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).		
	☒ Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.	
▪ For conducted measurement.		
	▪ If The EUT supports multiple transmit chains using options given below:	
		▪ Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup

Power Spectral Density


3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	**Limit (dB)**
Peak output power procedure	20
Average output power procedure	30
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 level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average level.	

3.5.2 Measuring Instruments

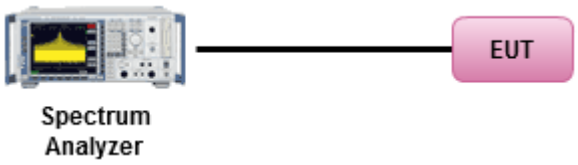
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method
▪ Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

3.5.4 Test Setup

Emissions in Non-restricted Frequency Bands



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 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.

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method	
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or 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 KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
▪ For the transmitter band-edge emissions shall be measured using following options below:	
	▪ Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	▪ Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	▪ Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
▪ Use the following spectrum analyzer settings:	
	▪ Set RBW=100 kHz for f < 1 GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	▪ Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement. For average measurement, refer as 1.1.4.
▪ 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.

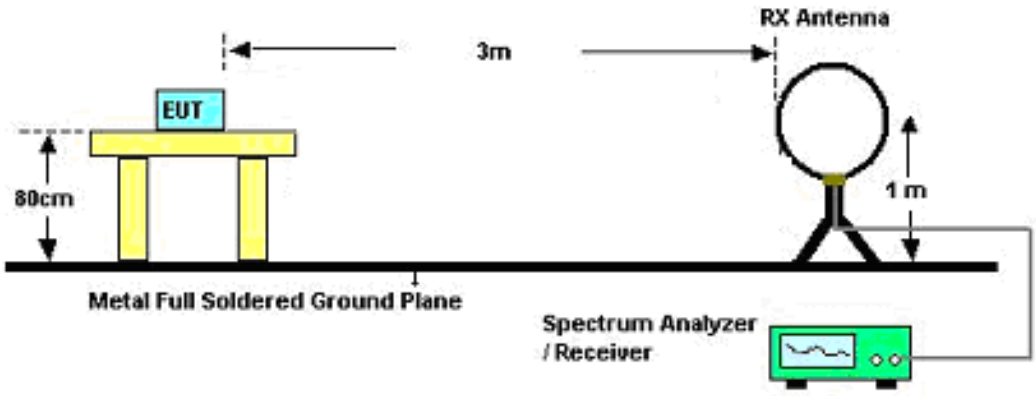
3.6.4 Measurement Results Calculation

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

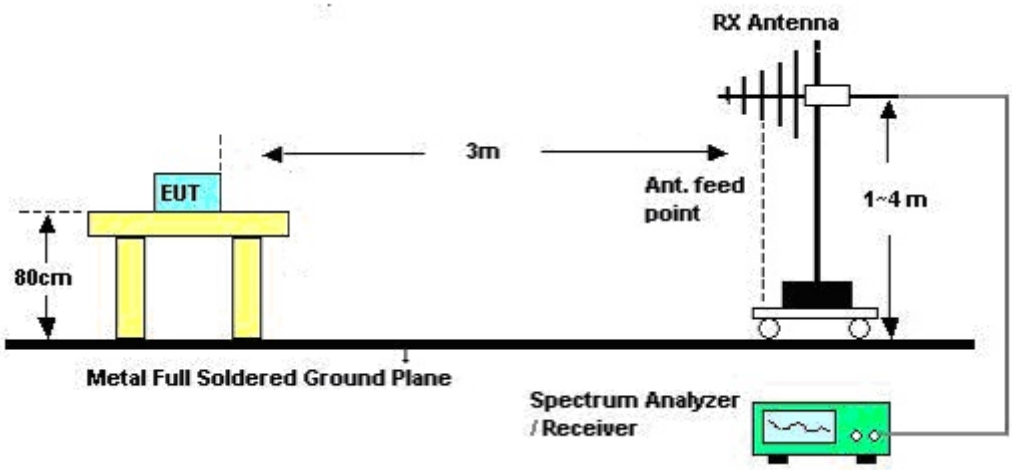
3.6.5 Test Setup

Emissions in Restricted Frequency Bands

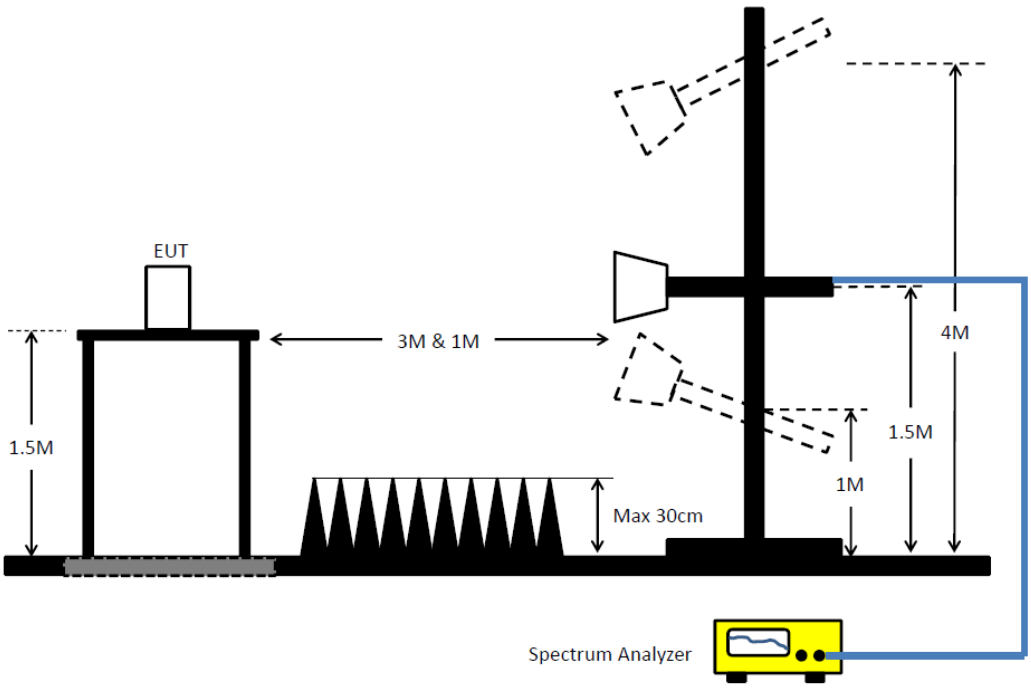
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.6.6 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.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

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	ESR	102052	9kHz ~ 3.6GHz	02/Jun/2021	01/Jun/2022
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	12/Jan/2022	11/Jan/2023
LISN- Two-Line V Network (Support Unit)	MessTec	NNB-2/16Z	2001/009	9kHz ~ 30MHz	12/Oct/2021	11/Oct/2022
Cable	MTJ	RG 142	CO01-cable-01	9 kHz ~ 1GHz	12/Jul/2021	11/Jul/2022
Pulse Limiter	R&S	EHS3-Z2	100920	9kHz ~ 30MHz	29/Oct/2021	28/Oct/2022
Software	Sporton	SENSE-EMI	V5.10.7	-	NCR	NCR

NCR: No Calibration Required

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	01/Apr/2022	31/Mar/2023
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2021	20/Oct/2022
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	21/Feb/2022	20/Feb/2023
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	21/Feb/2022	20/Feb/2023
SENSE-15247_FS	Sporton	V5.10.7.16	N/A	N/A	N/A	N/A

Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	02/Aug/2021	01/Aug/2022
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	01/Aug/2021	31/Jul/2022
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	08/Apr/2022	07/Apr/2023
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	29/Jun/2021	28/Jun/2022
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	03/Nov/2021	02/Nov/2022
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	04/Sep/2021	03/Sep/2022
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 01543	1GHz~18GHz	04/Jun/2021	03/Jun/2022
RF Cable	MVE	400LL	MVE-1-0802	9kHz~30MHz	04/May/2022	03/May/2023
RF Cable	MVE	400LL	MVE-1-0802	30MHz~1GHz	04/May/2022	03/May/2023
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	805193/4+805192 /4	1GHz~40GHz	01/Apr/2022	31/Mar/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	08/Mar/2022	07/Mar/2023
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	18/Mar/2022	17/Mar/2023
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	02/Jun/2021	01/Jun/2022
SENSE-15247_FS	Sporton	V5.10.7.14	N/A	N/A	N/A	N/A

Instrument for Radiated Test (Co-location)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	02/Aug/2022	01/Aug/2023
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	12/Oct/2021	11/Oct/2022
Microwave Preamplifier	Agilent	8449BA	3008A02326	1 GHz ~ 26.5 GHz	14/Jul/2022	13/Jul/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz ~18GHz	14/Sep/2021	13/Sep/2022
RF CABLE 5+6m	HUBER+SUHNER	SUOFLEX 104	03CH03-cable-01	1GHz~40GHz	27/Jul/2022	26/Jul/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	08/Mar/2022	07/Mar/2023
SENSE-EMI	Sporton	V5.10.8.6	NA	NA	NA	NA

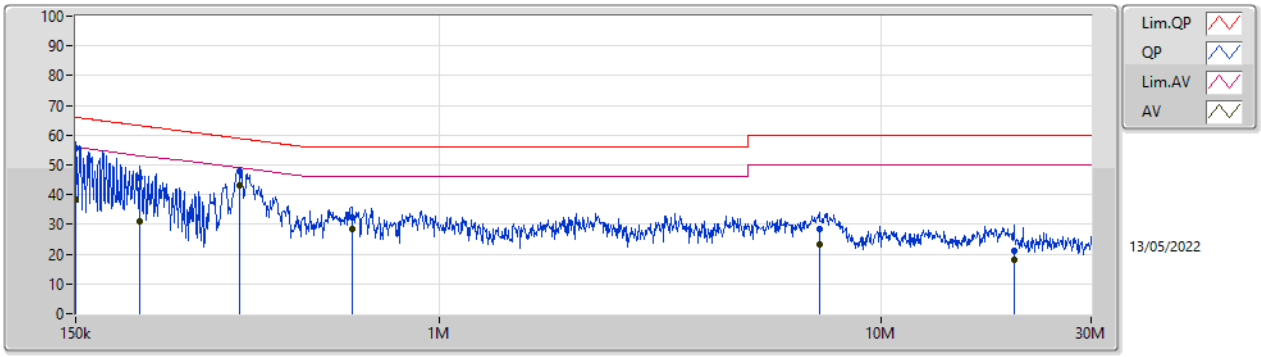
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	352.457k	43.11	48.91	-5.80	Line

Mode Configure

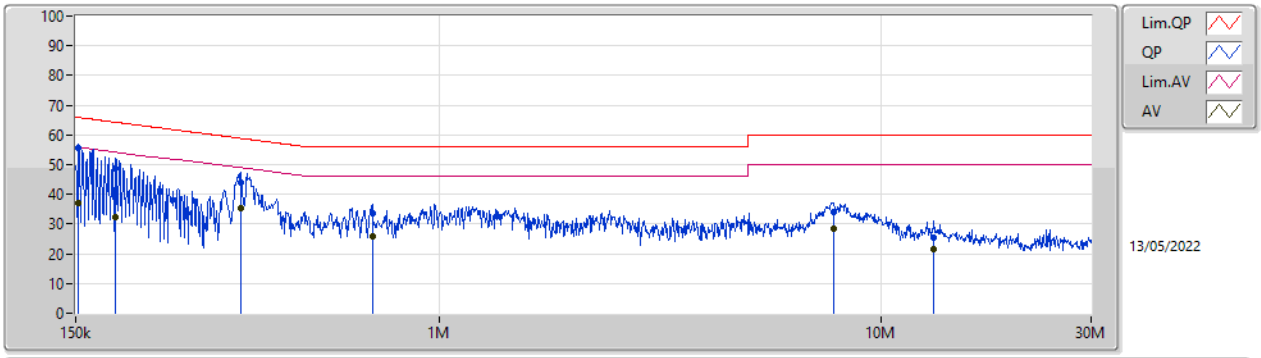
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	150k	55.64	66.00	-10.36	Line	-
Mode 1	Pass	AV	150k	38.56	56.00	-17.44	Line	-
Mode 1	Pass	QP	209.76k	45.89	63.21	-17.32	Line	-
Mode 1	Pass	AV	209.76k	31.02	53.21	-22.19	Line	-
Mode 1	Pass	QP	352.457k	47.74	58.91	-11.17	Line	-
Mode 1	Pass	AV	352.457k	43.11	48.91	-5.80	Line	-
Mode 1	Pass	QP	633.814k	32.44	56.00	-23.56	Line	-
Mode 1	Pass	AV	633.814k	28.25	46.00	-17.75	Line	-
Mode 1	Pass	QP	7.265M	28.37	60.00	-31.63	Line	-
Mode 1	Pass	AV	7.265M	23.27	50.00	-26.73	Line	-
Mode 1	Pass	QP	20.027M	20.97	60.00	-39.03	Line	-
Mode 1	Pass	AV	20.027M	17.91	50.00	-32.09	Line	-
Mode 1	Pass	QP	151.807k	55.80	65.90	-10.10	Neutral	-
Mode 1	Pass	AV	151.807k	37.18	55.90	-18.72	Neutral	-
Mode 1	Pass	QP	184.605k	48.92	64.28	-15.36	Neutral	-
Mode 1	Pass	AV	184.605k	32.37	54.28	-21.91	Neutral	-
Mode 1	Pass	QP	355.282k	44.04	58.83	-14.79	Neutral	-
Mode 1	Pass	AV	355.282k	35.46	48.83	-13.37	Neutral	-
Mode 1	Pass	QP	705.947k	33.56	56.00	-22.44	Neutral	-
Mode 1	Pass	AV	705.947k	25.67	46.00	-20.33	Neutral	-
Mode 1	Pass	QP	7.807M	34.02	60.00	-25.98	Neutral	-
Mode 1	Pass	AV	7.807M	28.62	50.00	-21.38	Neutral	-
Mode 1	Pass	QP	13.223M	25.62	60.00	-34.38	Neutral	-
Mode 1	Pass	AV	13.223M	21.71	50.00	-28.29	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	150k	55.64	66.00	-10.36	19.36	Line	-	36.28	9.60	0.07	9.69
AV	150k	38.56	56.00	-17.44	19.36	Line	-	19.20	9.60	0.07	9.69
QP	209.76k	45.89	63.21	-17.32	19.37	Line	-	26.52	9.61	0.07	9.69
AV	209.76k	31.02	53.21	-22.19	19.37	Line	-	11.65	9.61	0.07	9.69
QP	352.457k	47.74	58.91	-11.17	19.39	Line	-	28.35	9.60	0.09	9.70
AV	352.457k	43.11	48.91	-5.80	19.39	Line	-	23.72	9.60	0.09	9.70
QP	633.814k	32.44	56.00	-23.56	19.40	Line	-	13.04	9.61	0.10	9.69
AV	633.814k	28.25	46.00	-17.75	19.40	Line	-	8.85	9.61	0.10	9.69
QP	7.265M	28.37	60.00	-31.63	19.55	Line	-	8.82	9.63	0.21	9.71
AV	7.265M	23.27	50.00	-26.73	19.55	Line	-	3.72	9.63	0.21	9.71
QP	20.027M	20.97	60.00	-39.03	19.64	Line	-	1.33	9.59	0.32	9.73
AV	20.027M	17.91	50.00	-32.09	19.64	Line	-	-1.73	9.59	0.32	9.73

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	151.807k	55.80	65.90	-10.10	19.35	Neutral	-	36.45	9.59	0.07	9.69
AV	151.807k	37.18	55.90	-18.72	19.35	Neutral	-	17.83	9.59	0.07	9.69
QP	184.605k	48.92	64.28	-15.36	19.35	Neutral	-	29.57	9.59	0.07	9.69
AV	184.605k	32.37	54.28	-21.91	19.35	Neutral	-	13.02	9.59	0.07	9.69
QP	355.282k	44.04	58.83	-14.79	19.37	Neutral	-	24.67	9.58	0.09	9.70
AV	355.282k	35.46	48.83	-13.37	19.37	Neutral	-	16.09	9.58	0.09	9.70
QP	705.947k	33.56	56.00	-22.44	19.38	Neutral	-	14.18	9.59	0.10	9.69
AV	705.947k	25.67	46.00	-20.33	19.38	Neutral	-	6.29	9.59	0.10	9.69
QP	7.807M	34.02	60.00	-25.98	19.56	Neutral	-	14.46	9.64	0.21	9.71
AV	7.807M	28.62	50.00	-21.38	19.56	Neutral	-	9.06	9.64	0.21	9.71
QP	13.223M	25.62	60.00	-34.38	19.65	Neutral	-	5.97	9.66	0.27	9.72
AV	13.223M	21.71	50.00	-28.29	19.65	Neutral	-	2.06	9.66	0.27	9.72

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)	707.5k	1.067M	1M07F1D	687.5k	1.048M
BT-LE(2Mbps)	1.408M	2.109M	2M11F1D	1.353M	2.074M
BT-LE(125kbps)	741.25k	1.083M	1M08F1D	700k	1.064M
BT-LE(500kbps)	697.5k	1.064M	1M06F1D	670k	1.046M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

Result

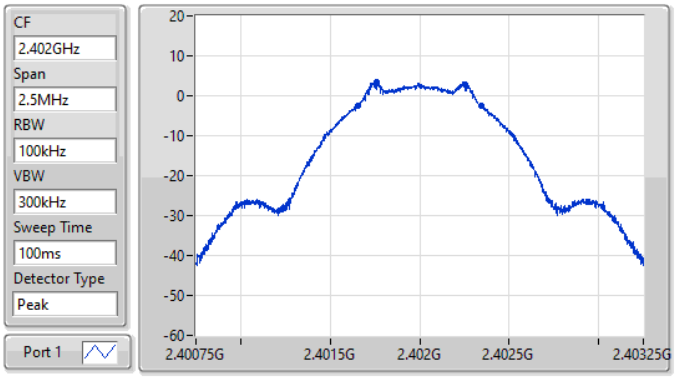
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	690k	1.052M
2440MHz	Pass	500k	687.5k	1.048M
2480MHz	Pass	500k	707.5k	1.067M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.408M	2.084M
2440MHz	Pass	500k	1.353M	2.074M
2480MHz	Pass	500k	1.408M	2.109M
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	500k	703.75k	1.073M
2440MHz	Pass	500k	700k	1.064M
2480MHz	Pass	500k	741.25k	1.083M
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	500k	670k	1.047M
2440MHz	Pass	500k	682.5k	1.046M
2480MHz	Pass	500k	697.5k	1.064M

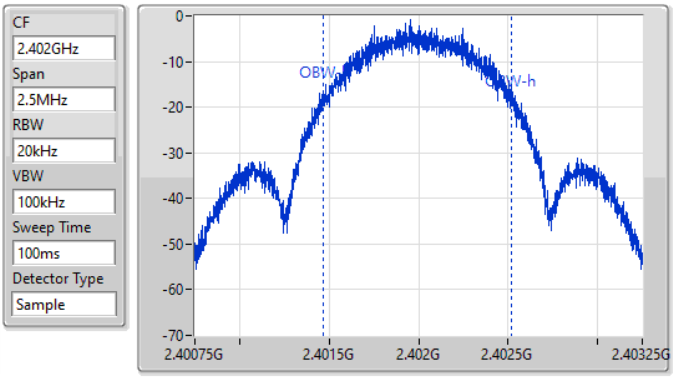
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

BT-LE(1Mbps) EBW-DTS

2402MHz

18/05/2022



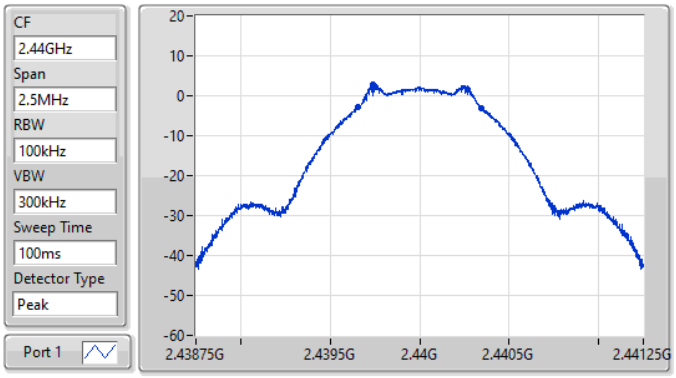


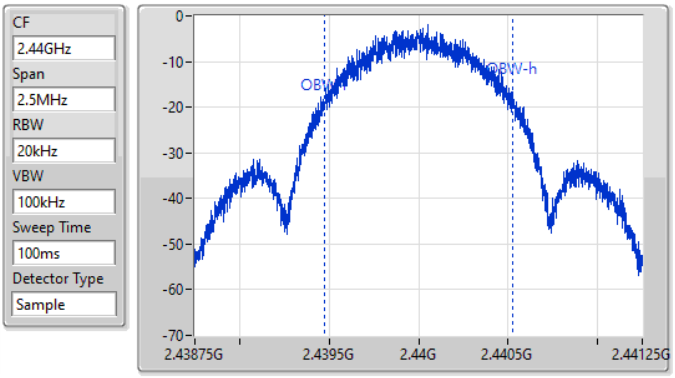
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
690k	2.401655G	2.402345G	1.052M	2.40147G	2.402522G	500k	1

BT-LE(1Mbps) EBW-DTS

2440MHz

18/05/2022



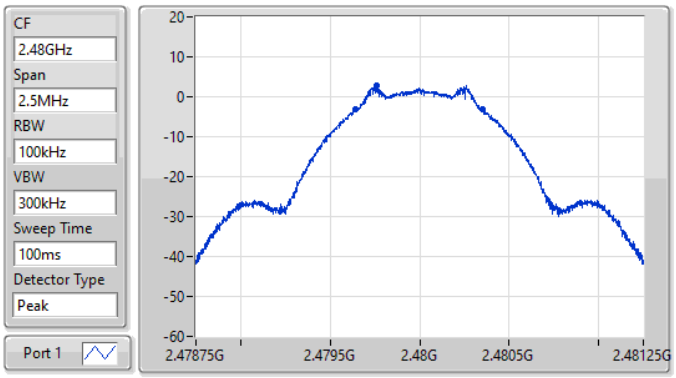


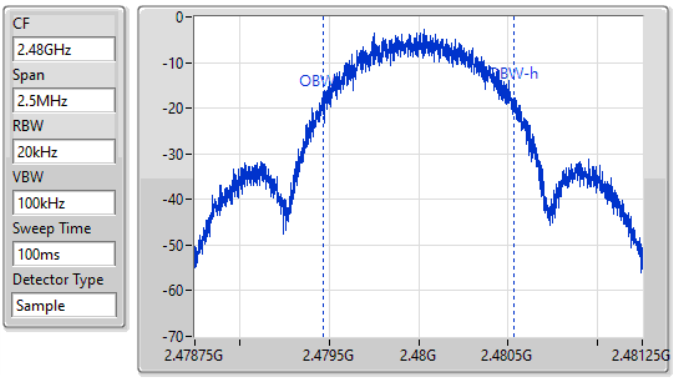
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
687.5k	2.439656G	2.440344G	1.048M	2.439477G	2.440525G	500k	1

BT-LE(1Mbps) EBW-DTS

2480MHz

18/05/2022



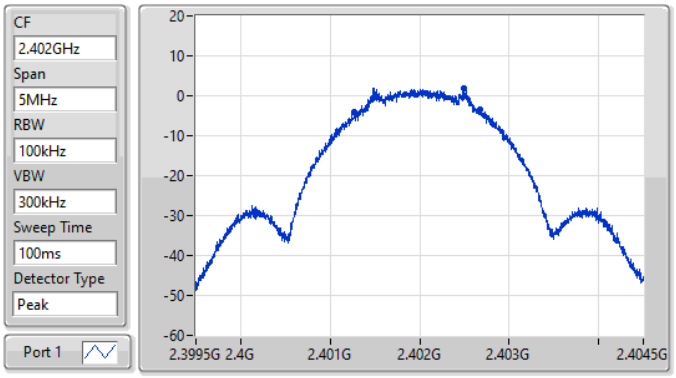


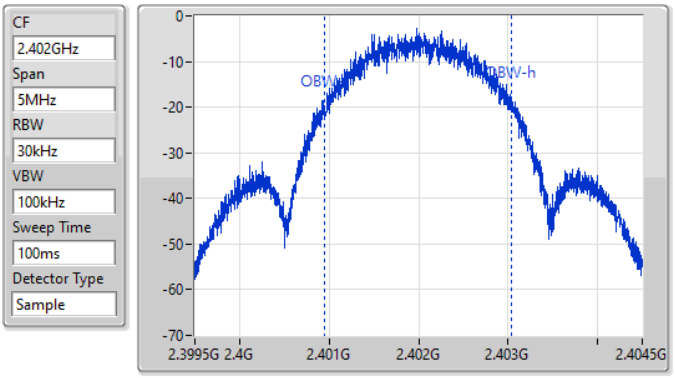
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
707.5k	2.479644G	2.480351G	1.067M	2.479465G	2.480532G	500k	1

BT-LE(2Mbps) EBW-DTS

2402MHz

18/05/2022



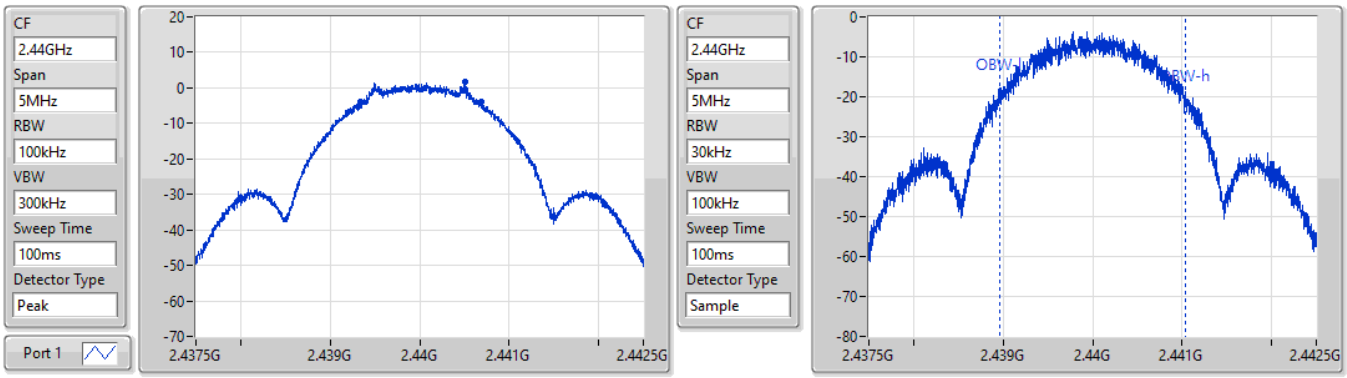


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.408M	2.401273G	2.40268G	2.084M	2.400953G	2.403037G	500k	1

BT-LE(2Mbps) EBW-DTS

2440MHz

18/05/2022

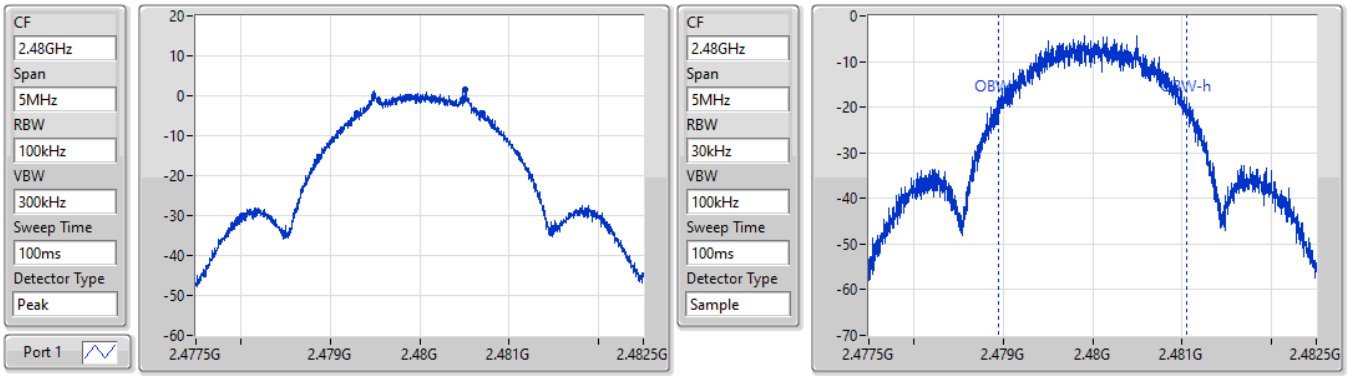


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.353M	2.439333G	2.440685G	2.074M	2.438958G	2.441032G	500k	1

BT-LE(2Mbps) EBW-DTS

2480MHz

18/05/2022

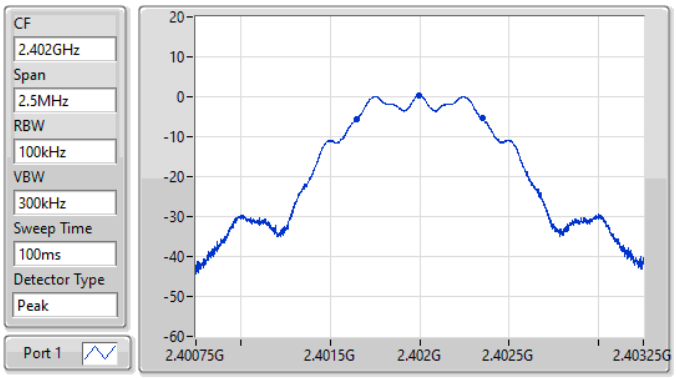


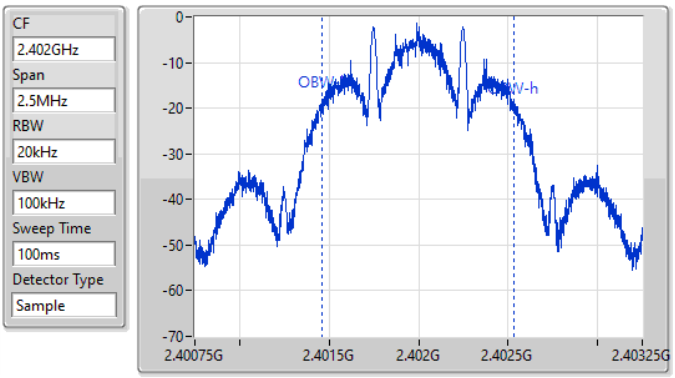
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.408M	2.479295G	2.480703G	2.109M	2.478943G	2.481052G	500k	1

BT-LE(125kbps) EBW-DTS

2402MHz

18/05/2022



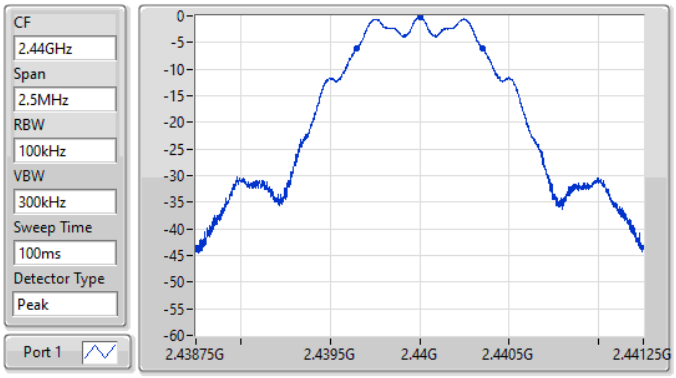


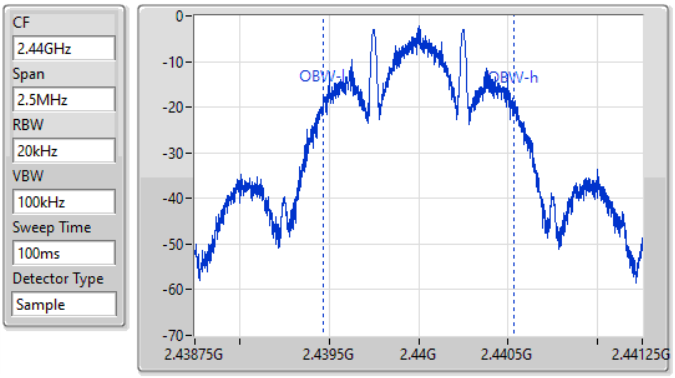
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
703.75k	2.401648G	2.402351G	1.073M	2.40146G	2.402533G	500k	1

BT-LE(125kbps) EBW-DTS

2440MHz

18/05/2022



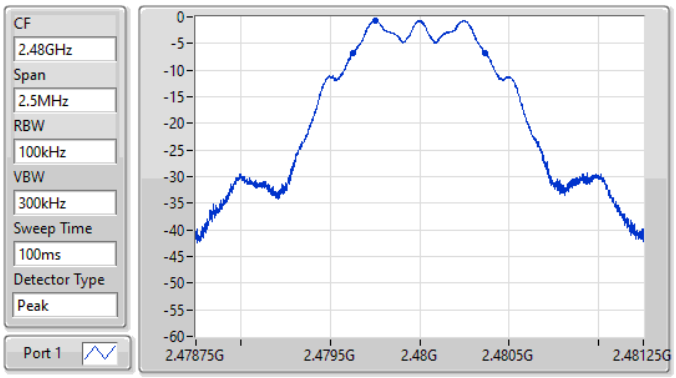


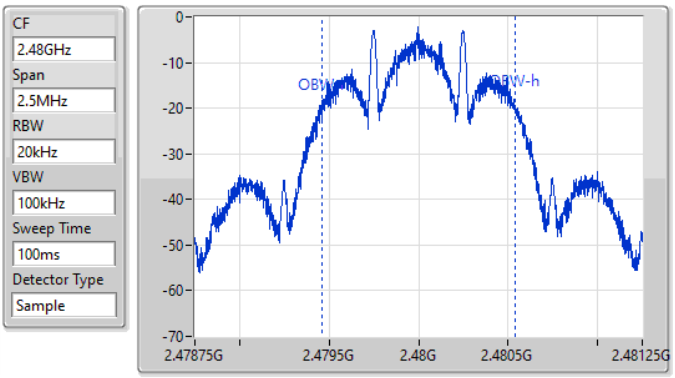
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
700k	2.439649G	2.440349G	1.064M	2.439467G	2.440531G	500k	1

BT-LE(125kbps) EBW-DTS

2480MHz

18/05/2022



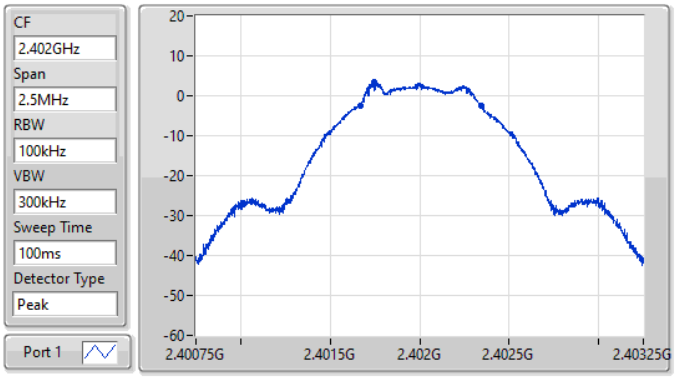


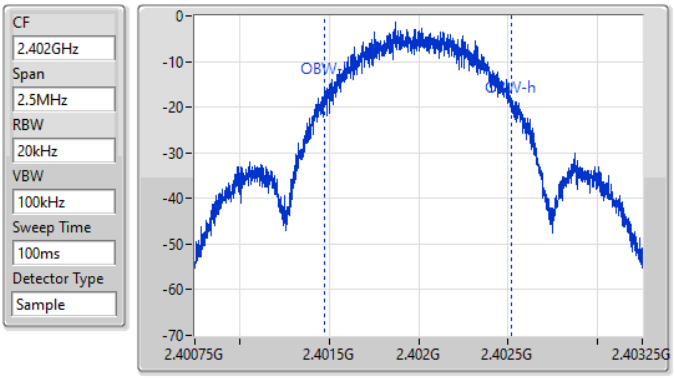
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
741.25k	2.479628G	2.480369G	1.083M	2.479458G	2.480541G	500k	1

BT-LE(500kbps) EBW-DTS

2402MHz

18/05/2022



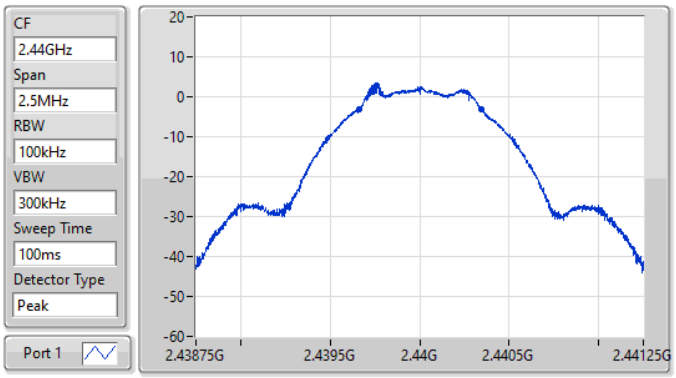


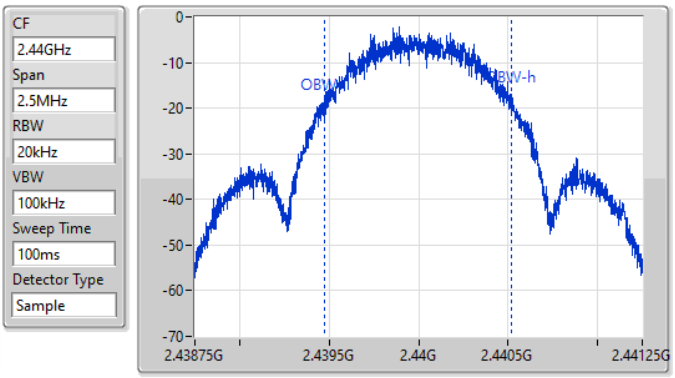
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
670k	2.401671G	2.402341G	1.047M	2.401472G	2.402518G	500k	1

BT-LE(500kbps) EBW-DTS

2440MHz

18/05/2022



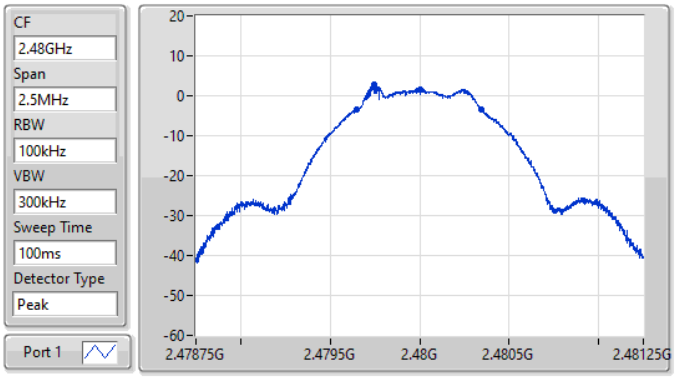


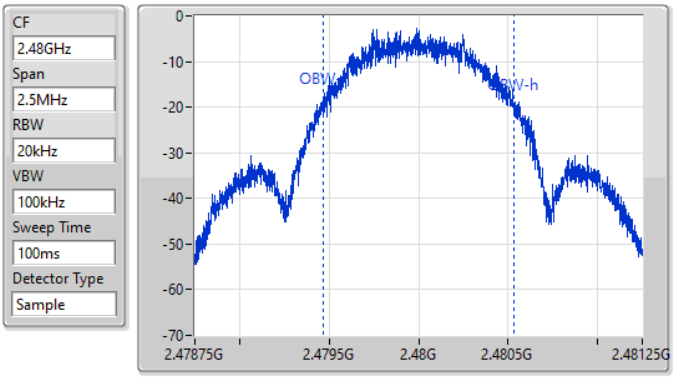
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
682.5k	2.439663G	2.440345G	1.046M	2.439475G	2.440521G	500k	1

BT-LE(500kbps) EBW-DTS

2480MHz

18/05/2022





6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
697.5k	2.479649G	2.480346G	1.064M	2.479468G	2.480532G	500k	1

Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	3.96	0.00249
BT-LE(2Mbps)	3.97	0.00249
BT-LE(125kbps)	3.98	0.00250
BT-LE(500kbps)	3.98	0.00250

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	4.02	3.96	30.00
2440MHz	Pass	4.02	3.39	30.00
2480MHz	Pass	4.02	3.17	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	4.02	3.97	30.00
2440MHz	Pass	4.02	3.40	30.00
2480MHz	Pass	4.02	3.18	30.00
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	4.02	3.98	30.00
2440MHz	Pass	4.02	3.41	30.00
2480MHz	Pass	4.02	3.20	30.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	4.02	3.98	30.00
2440MHz	Pass	4.02	3.42	30.00
2480MHz	Pass	4.02	3.21	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-10.12
BT-LE(2Mbps)	-11.66
BT-LE(125kbps)	-2.47
BT-LE(500kbps)	-10.75

RBW = 3kHz;

Result

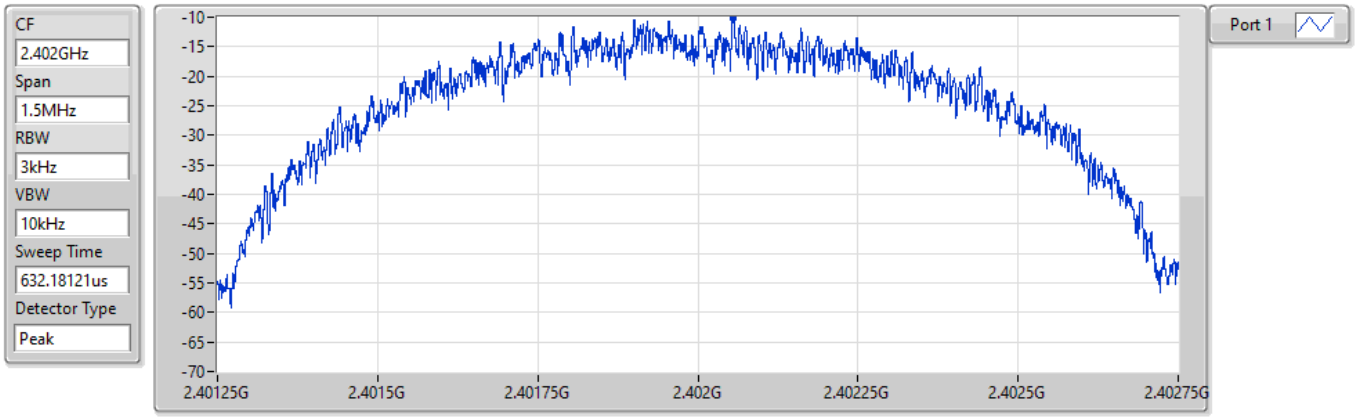
Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	4.02	-10.12	8.00
2440MHz	Pass	4.02	-11.08	8.00
2480MHz	Pass	4.02	-11.29	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	4.02	-13.02	8.00
2440MHz	Pass	4.02	-11.66	8.00
2480MHz	Pass	4.02	-14.50	8.00
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	4.02	-2.47	8.00
2440MHz	Pass	4.02	-3.15	8.00
2480MHz	Pass	4.02	-3.20	8.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	4.02	-10.93	8.00
2440MHz	Pass	4.02	-11.12	8.00
2480MHz	Pass	4.02	-10.75	8.00

DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

BT-LE(1Mbps) PSD

2402MHz

18/05/2022

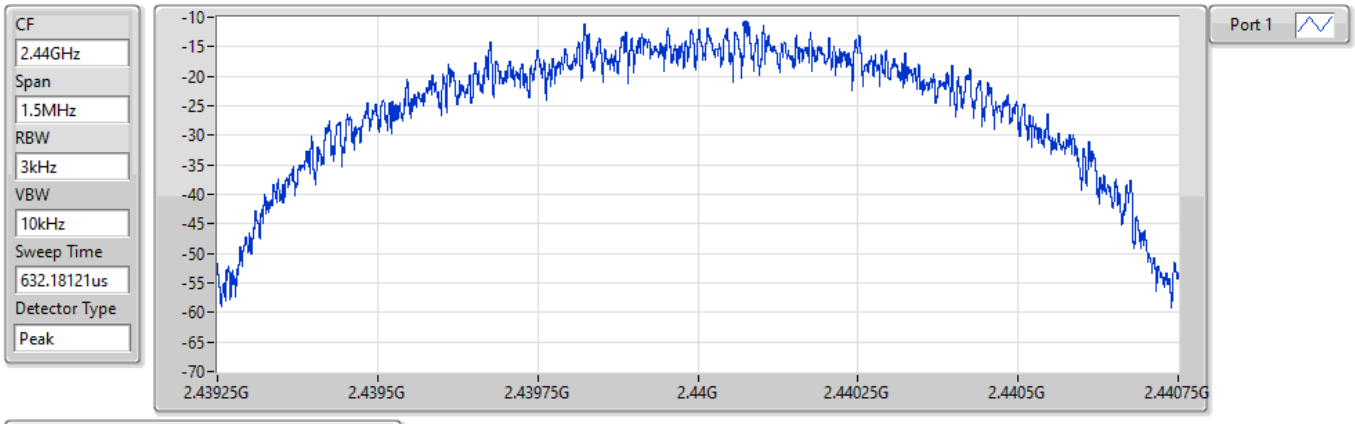


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.12	-10.12	-10.12

BT-LE(1Mbps) PSD

2440MHz

18/05/2022

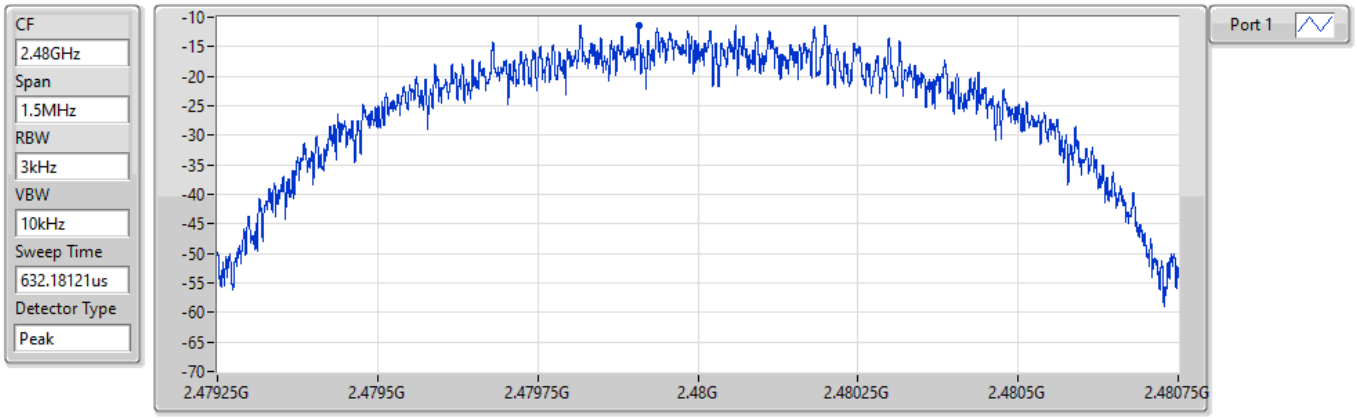


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.08	-11.08	-11.08

BT-LE(1Mbps) PSD

2480MHz

18/05/2022

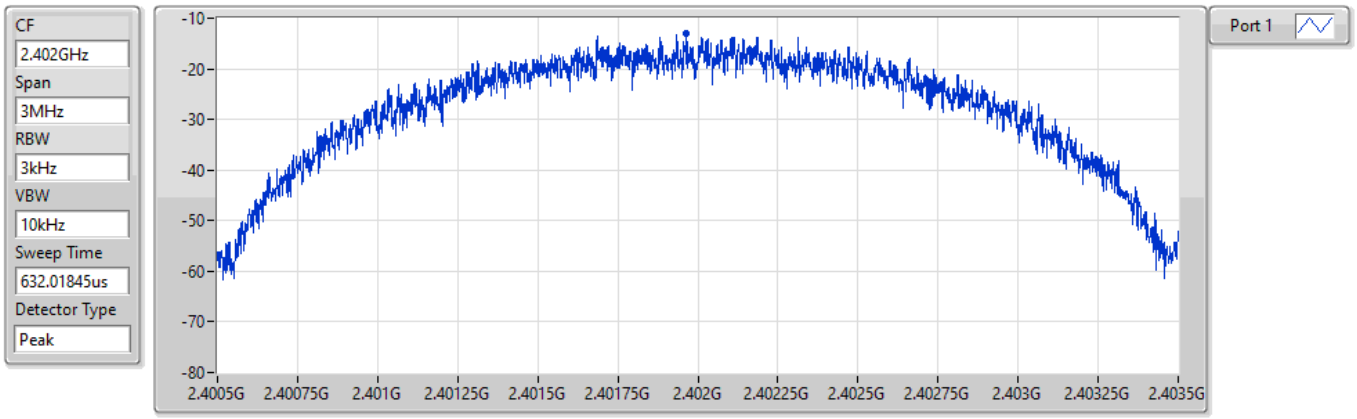


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.29	-11.29	-11.29

BT-LE(2Mbps) PSD

2402MHz

18/05/2022

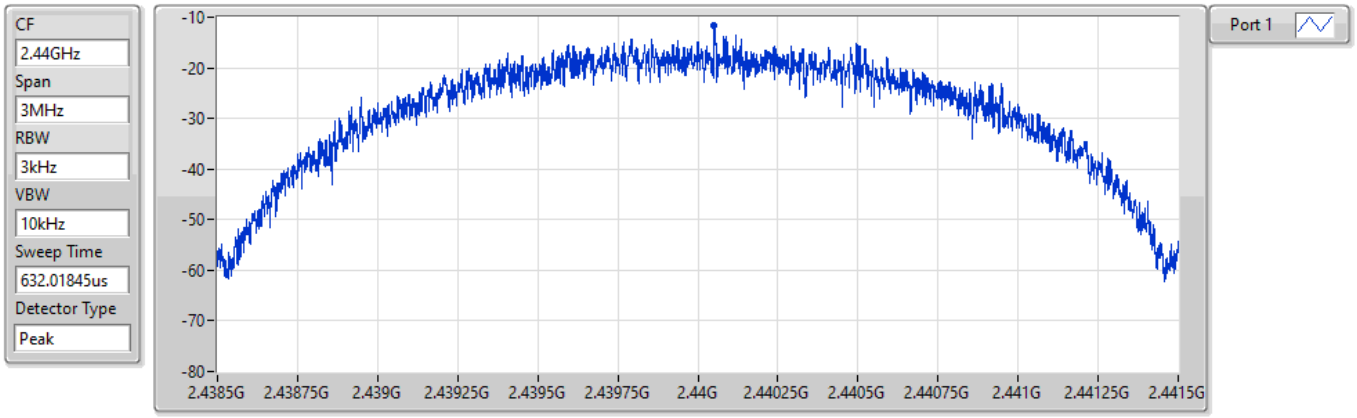


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-13.02	-13.02	-13.02

BT-LE(2Mbps) PSD

2440MHz

18/05/2022

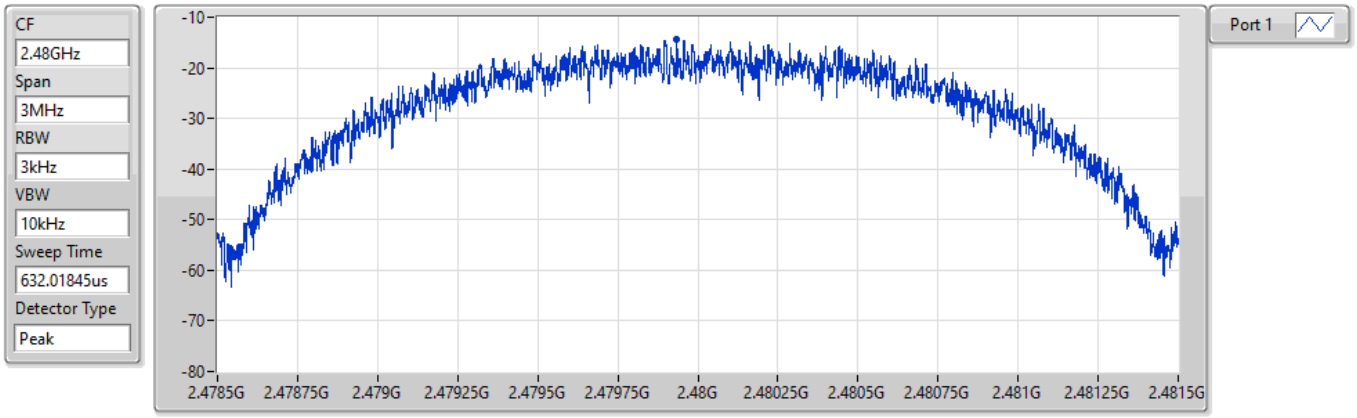


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.66	-11.66	-11.66

BT-LE(2Mbps) PSD

2480MHz

18/05/2022

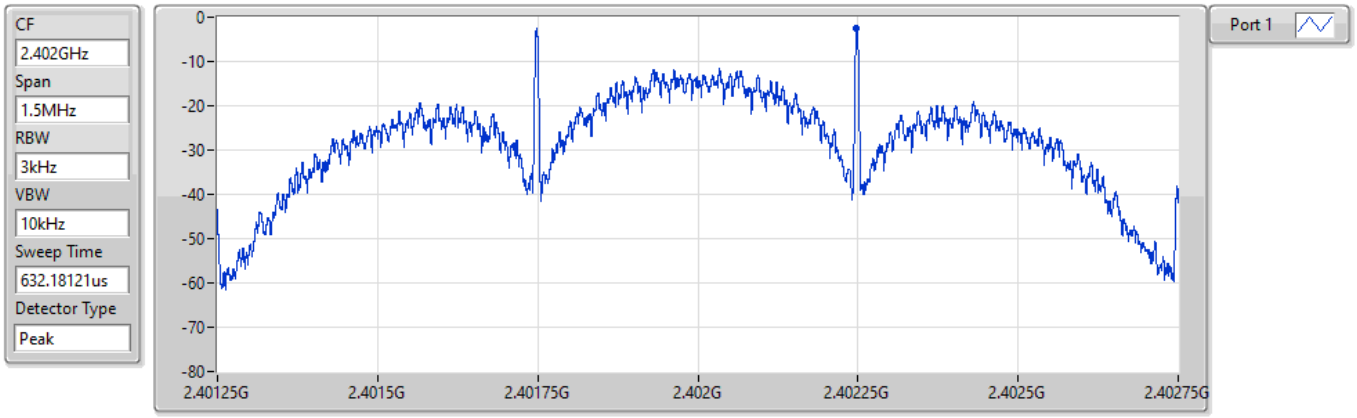


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-14.50	-14.50	-14.50

BT-LE(125kbps) PSD

2402MHz

18/05/2022

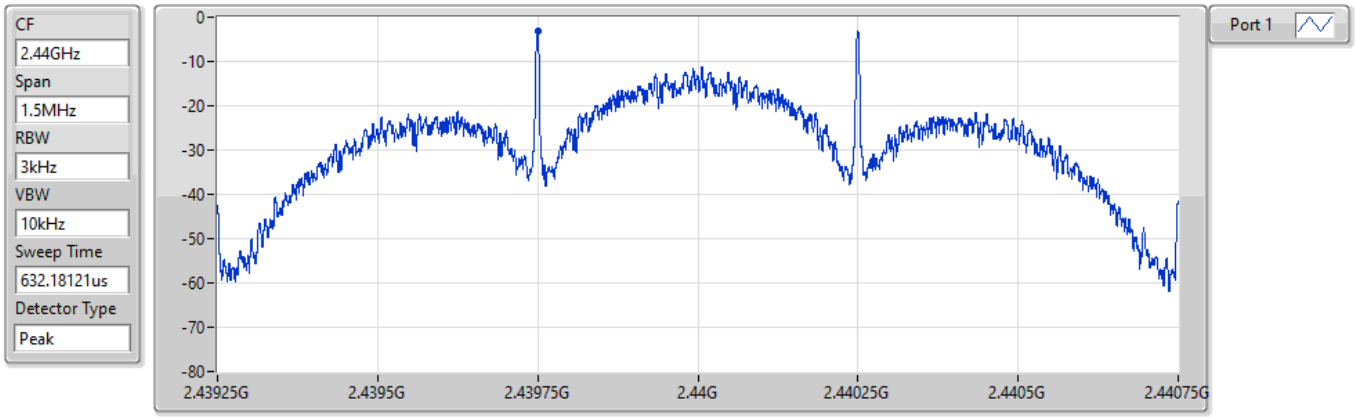


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.47	-2.47	-2.47

BT-LE(125kbps) PSD

2440MHz

18/05/2022

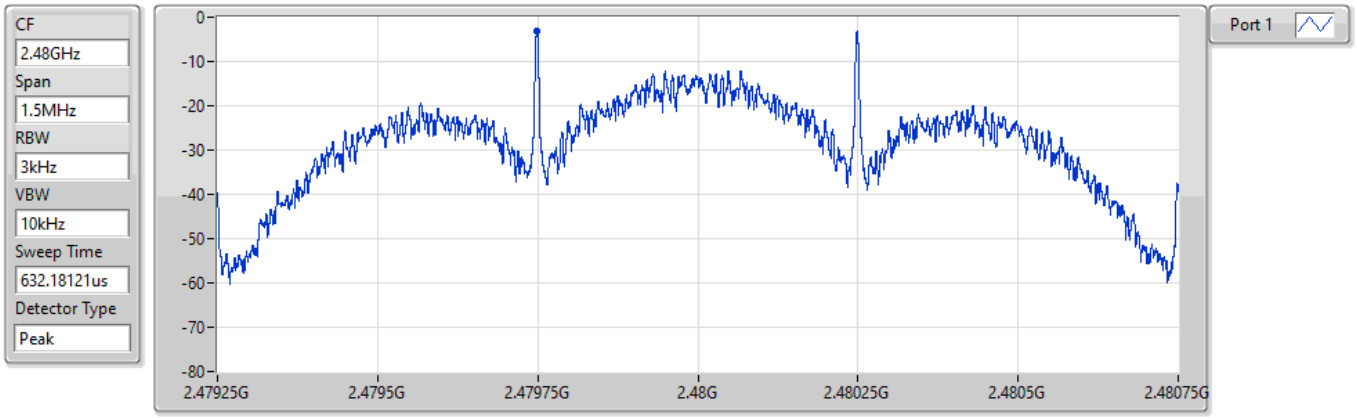


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.15	-3.15	-3.15

BT-LE(125kbps) PSD

2480MHz

18/05/2022

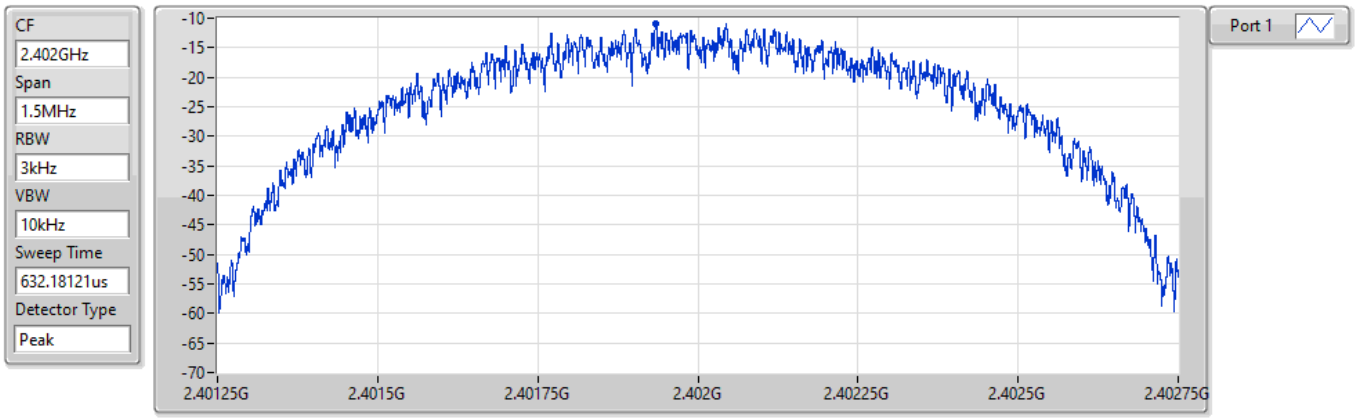


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.20	-3.20	-3.20

BT-LE(500kbps) PSD

2402MHz

18/05/2022

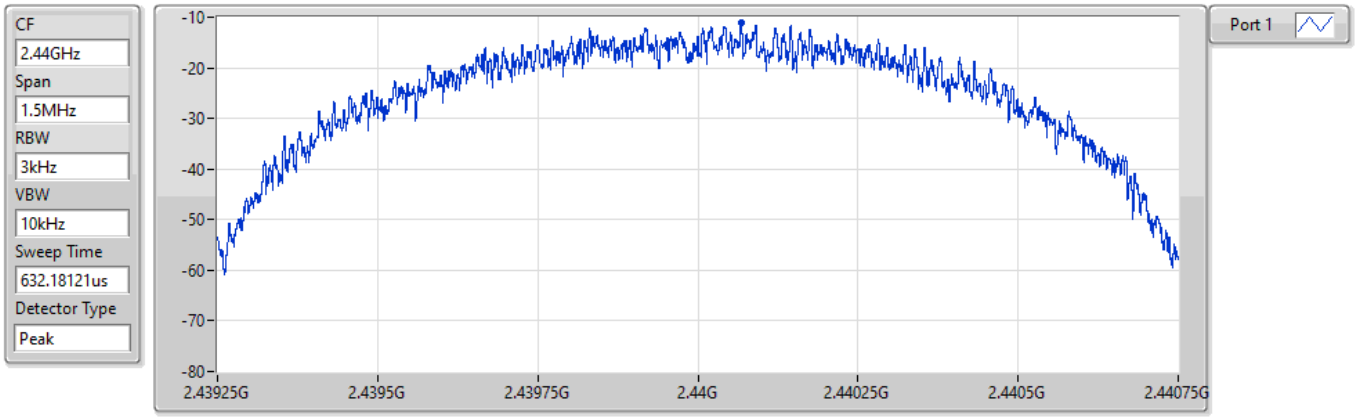


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.93	-10.93	-10.93

BT-LE(500kbps) PSD

2440MHz

18/05/2022

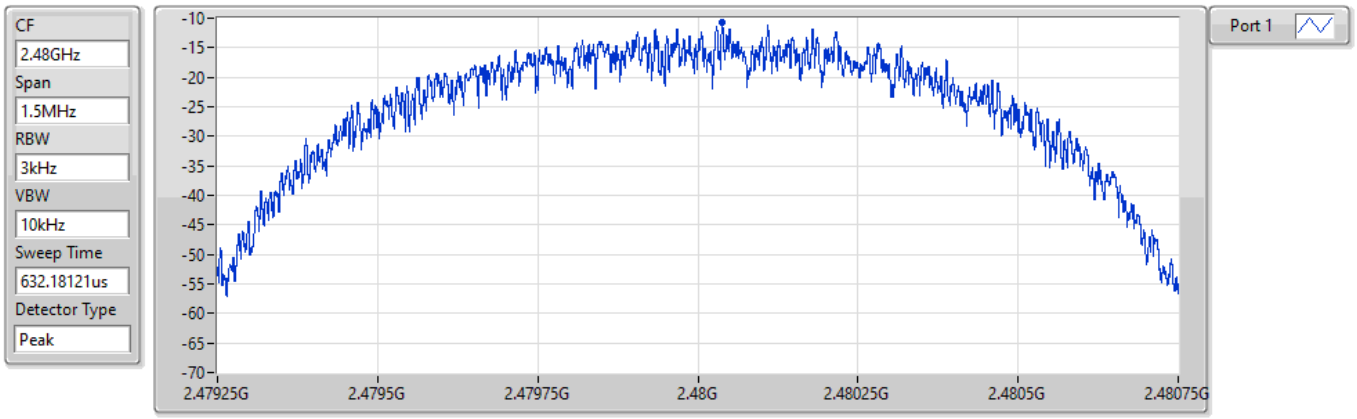


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.12	-11.12	-11.12

BT-LE(500kbps) PSD

2480MHz

18/05/2022



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.75	-10.75	-10.75

Summary

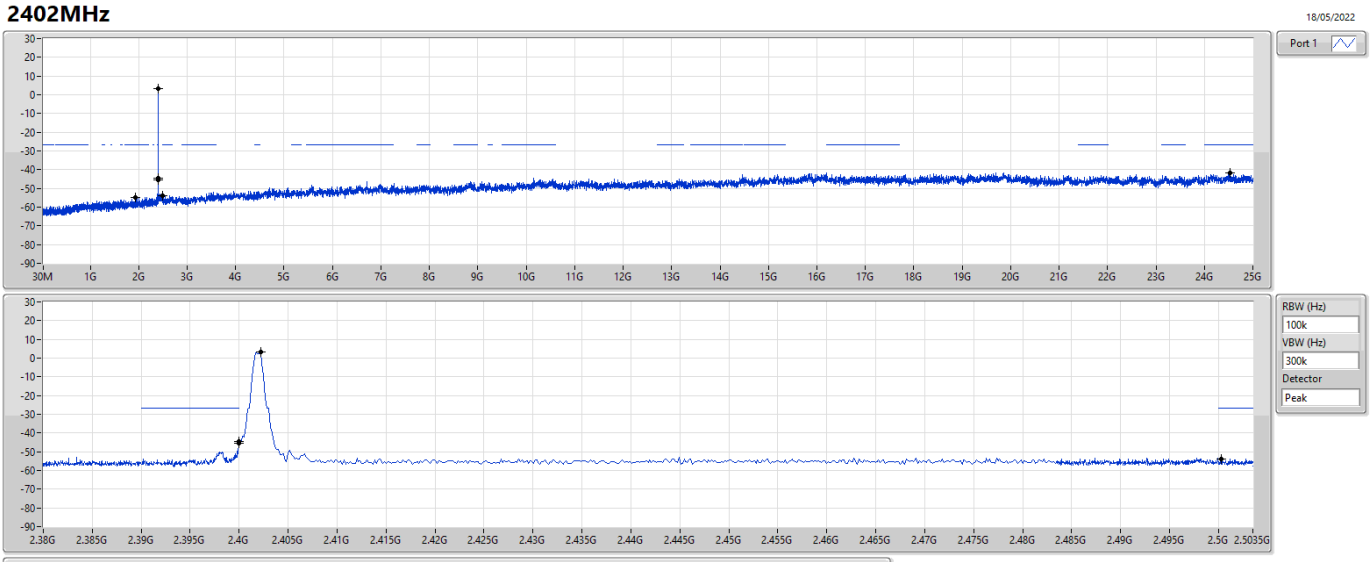
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.40217G	3.09	-26.91	1.9241G	-54.79	2.4G	-45.37	2.4G	-44.35	2.5003G	-53.76	24.5332G	-41.69	1
BT-LE(2Mbps)	Pass	2.4015G	1.28	-28.72	1.8207G	-54.35	2.4G	-30.16	2.4G	-29.14	2.5011G	-53.69	24.49664G	-41.69	1
BT-LE(125kbps)	Pass	2.40184G	0.25	-29.75	2.1826G	-54.97	2.4G	-45.44	2.4G	-44.22	2.50242G	-53.21	15.0678G	-41.54	1
BT-LE(500kbps)	Pass	2.40167G	3.38	-26.62	2.1215G	-55.30	2.4G	-45.77	2.4G	-45.03	2.50038G	-53.11	17.63521G	-41.26	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-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40217G	3.09	-26.91	1.9241G	-54.79	2.4G	-45.37	2.4G	-44.35	2.5003G	-53.76	24.5332G	-41.69	1
2440MHz	Pass	2.44025G	2.65	-27.35	2.10505G	-54.60	2.39776G	-53.83	2.4G	-56.80	2.50042G	-53.51	24.48258G	-41.41	1
2480MHz	Pass	2.48033G	2.27	-27.73	1.97698G	-55.18	2.39488G	-52.81	2.4G	-56.23	2.5007G	-53.12	24.58944G	-41.42	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.4015G	1.28	-28.72	1.8207G	-54.35	2.4G	-30.16	2.4G	-29.14	2.5011G	-53.69	24.49664G	-41.69	1
2440MHz	Pass	2.44008G	1.00	-29.00	2.14148G	-53.99	2.39272G	-54.16	2.4G	-56.43	2.50054G	-53.05	24.56694G	-41.61	1
2480MHz	Pass	2.47949G	0.92	-29.08	2.30245G	-55.56	2.39568G	-53.75	2.4G	-56.12	2.50022G	-53.76	24.52195G	-41.82	1
BT-LE(125kbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40184G	0.25	-29.75	2.1826G	-54.97	2.4G	-45.44	2.4G	-44.22	2.50242G	-53.21	15.0678G	-41.54	1
2440MHz	Pass	2.43991G	-0.21	-30.21	2.08155G	-55.39	2.39588G	-54.14	2.4G	-56.16	2.50346G	-53.71	17.31463G	-41.62	1
2480MHz	Pass	2.47983G	-0.78	-30.78	2.0698G	-55.63	2.39888G	-54.04	2.4G	-56.12	2.50342G	-53.65	24.74973G	-42.04	1
BT-LE(500kbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40167G	3.38	-26.62	2.1215G	-55.30	2.4G	-45.77	2.4G	-45.03	2.50038G	-53.11	17.63521G	-41.26	1
2440MHz	Pass	2.43975G	2.70	-27.30	1.79485G	-55.44	2.39932G	-53.82	2.4G	-55.23	2.50338G	-53.93	24.1845G	-41.78	1
2480MHz	Pass	2.47983G	2.53	-27.47	2.30363G	-54.75	2.39572G	-54.50	2.4G	-56.35	2.50198G	-53.04	24.15357G	-41.51	1

BT-LE(1Mbps) **CSENdB-DTS**

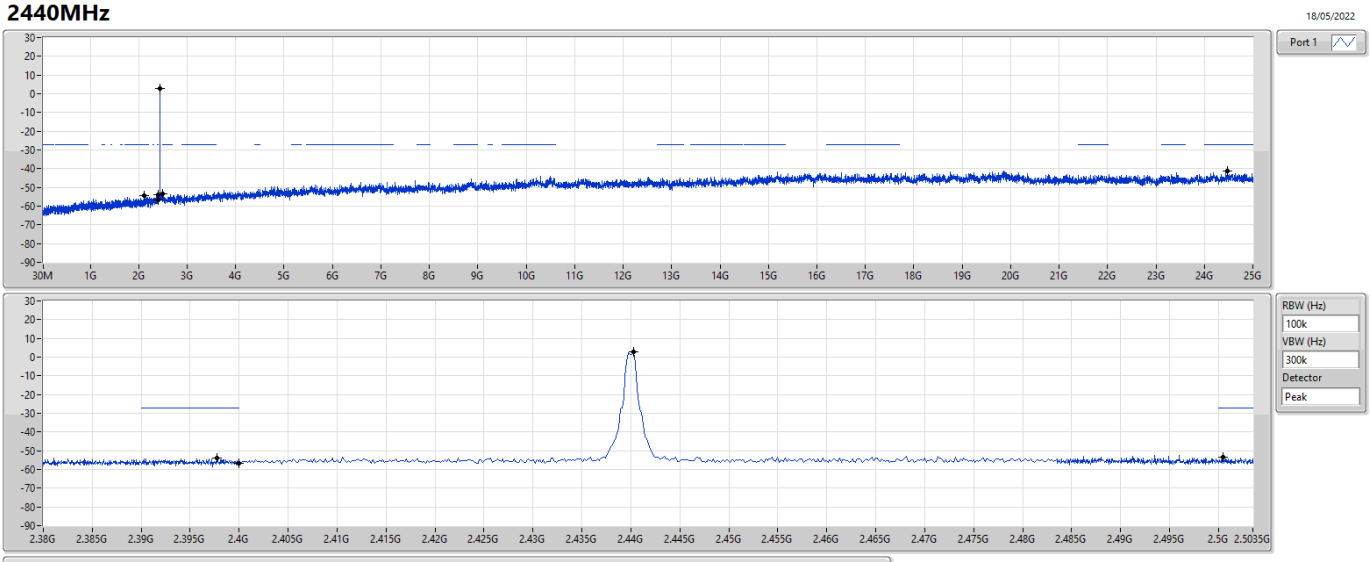
2402MHz



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	3.09	-26.91	1.9241G	-54.79	2.4G	-45.37	2.4G	-44.35	2.5003G	-53.76	24.5332G	-41.69	1

BT-LE(1Mbps) **CSENdB-DTS**

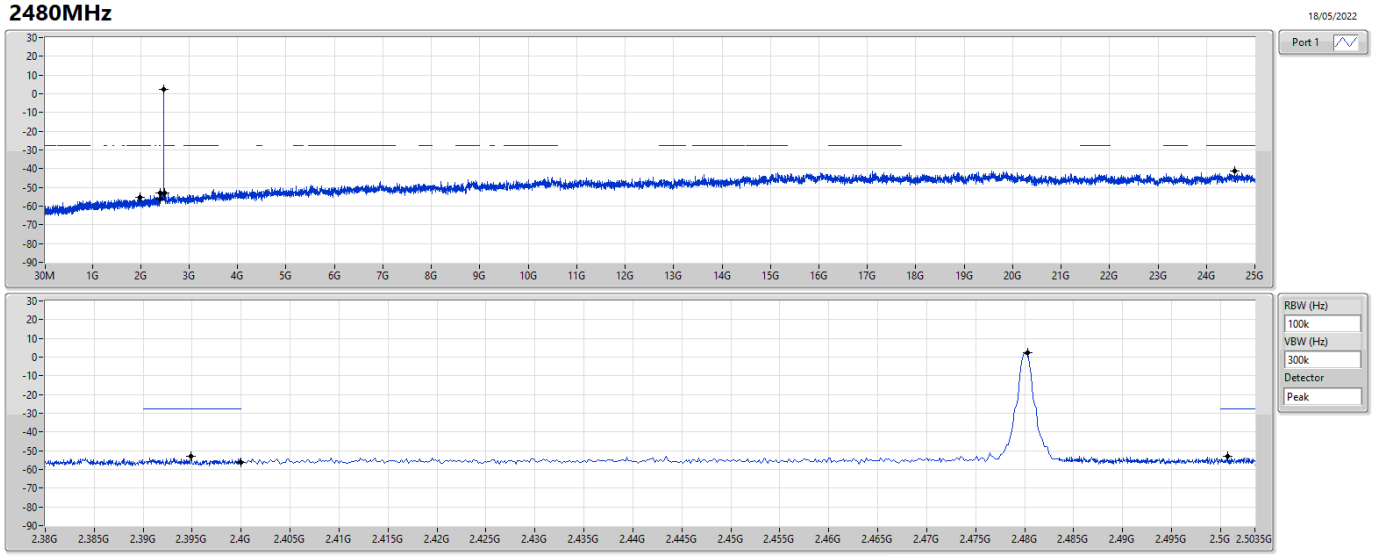
2440MHz



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
2.44025G	2.65	-27.35	2.10505G	-54.60	2.39776G	-53.83	2.4G	-56.80	2.50042G	-53.51	24.48258G	-41.41	1

BT-LE(1Mbps) **CSENdB-DTS**

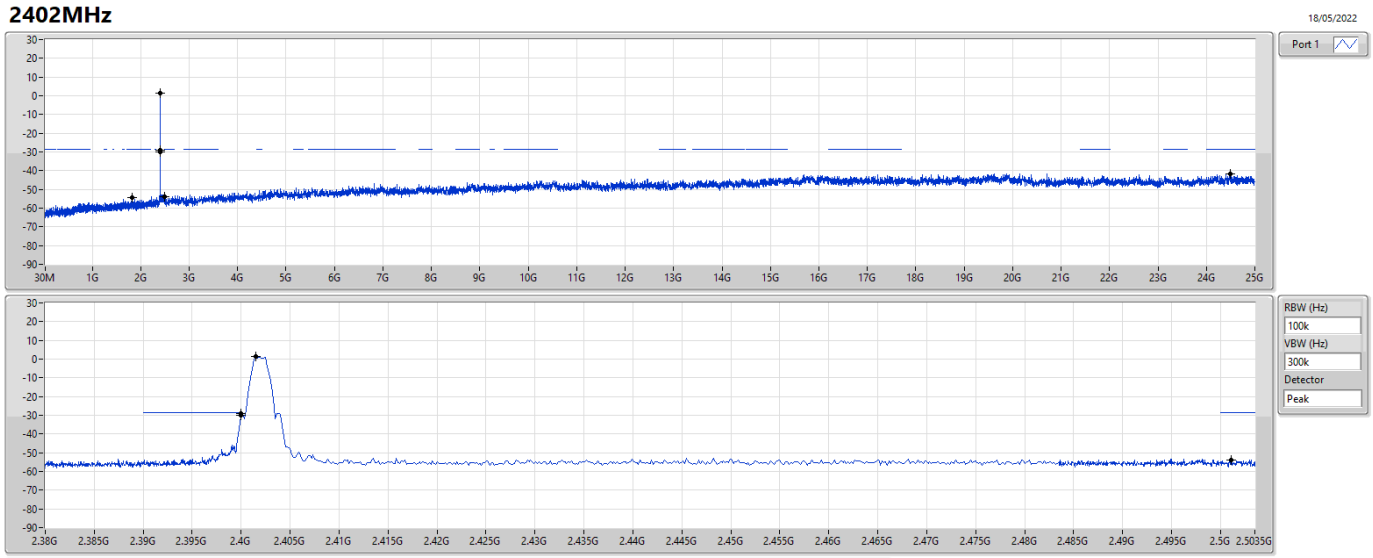
2480MHz



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
2.48033G	2.27	-27.73	1.97698G	-55.18	2.39488G	-52.81	2.4G	-56.23	2.5007G	-53.12	24.58944G	-41.42	1

BT-LE(2Mbps) **CSENdB-DTS**

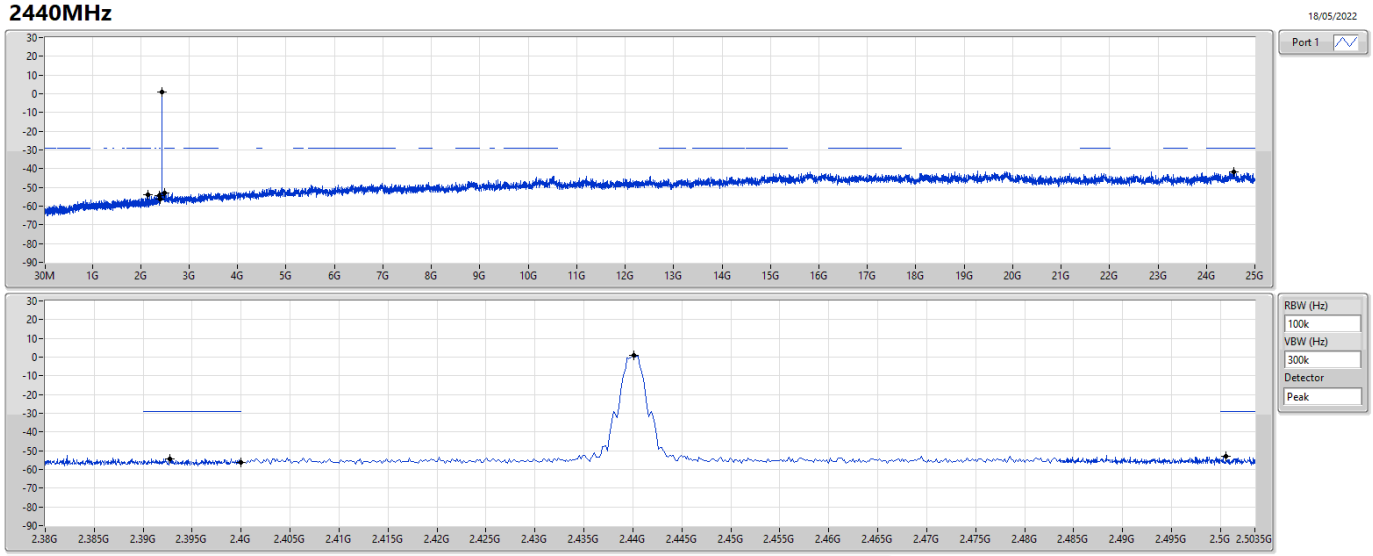
2402MHz



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
2.4015G	1.28	-28.72	1.8207G	-54.35	2.4G	-30.16	2.4G	-29.14	2.5011G	-53.69	24.49664G	-41.69	1

BT-LE(2Mbps) **CSENdB-DTS**

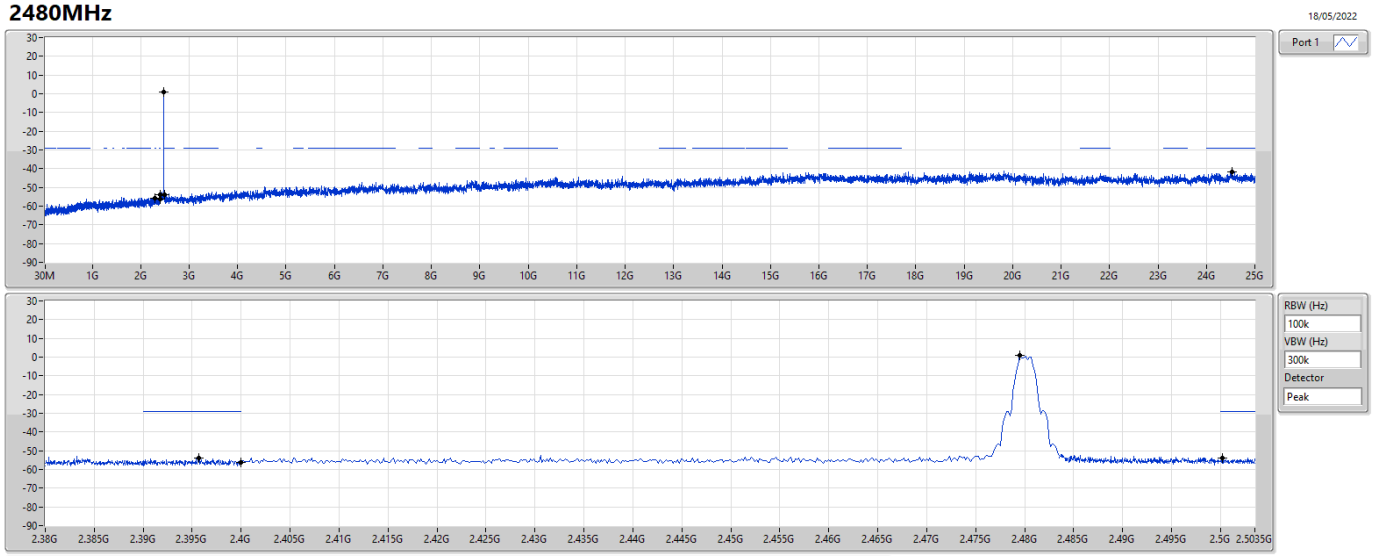
2440MHz



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
2.44008G	1.00	-29.00	2.14148G	-53.99	2.39272G	-54.16	2.4G	-56.43	2.50054G	-53.05	24.56694G	-41.61	1

BT-LE(2Mbps) **CSENdB-DTS**

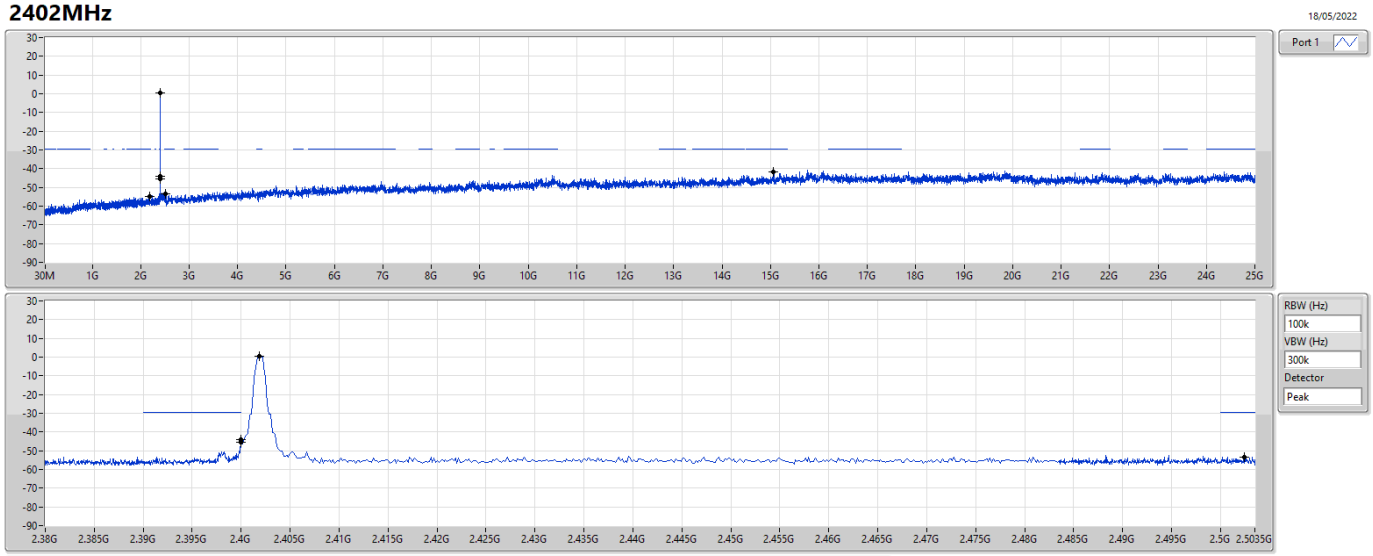
2480MHz



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
2.47949G	0.92	-29.08	2.30245G	-55.56	2.39568G	-53.75	2.4G	-56.12	2.50022G	-53.76	24.52195G	-41.82	1

BT-LE(125kbps) **CSENdB-DTS**

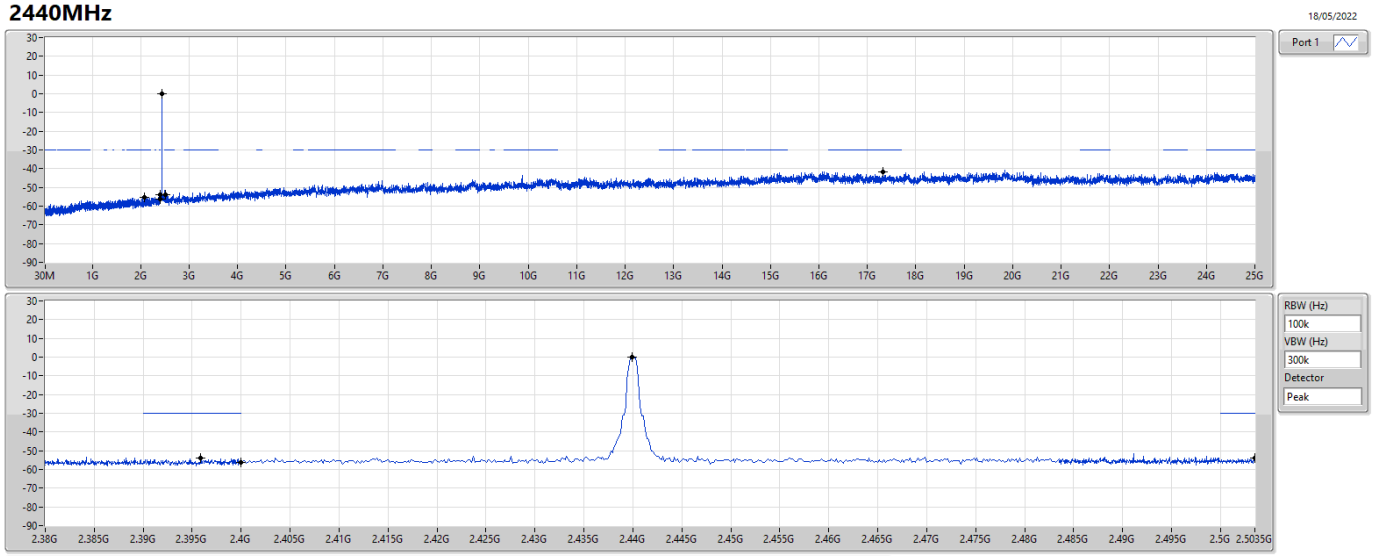
2402MHz



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	-29.75	2.1826G	-54.97	2.4G	-45.44	2.4G	-44.22	2.50242G	-53.21	15.0678G	-41.54	1

BT-LE(125kbps) **CSENdB-DTS**

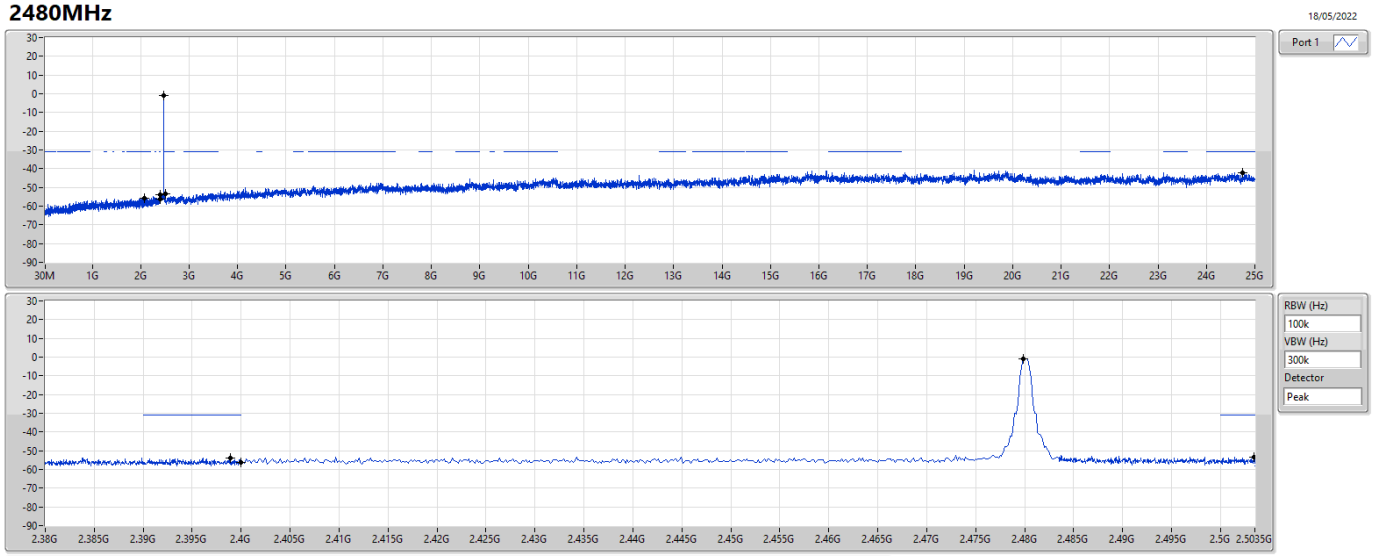
2440MHz



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
2.43991G	-0.21	-30.21	2.08155G	-55.39	2.39588G	-54.14	2.4G	-56.16	2.50346G	-53.71	17.31463G	-41.62	1

BT-LE(125kbps) **CSENdB-DTS**

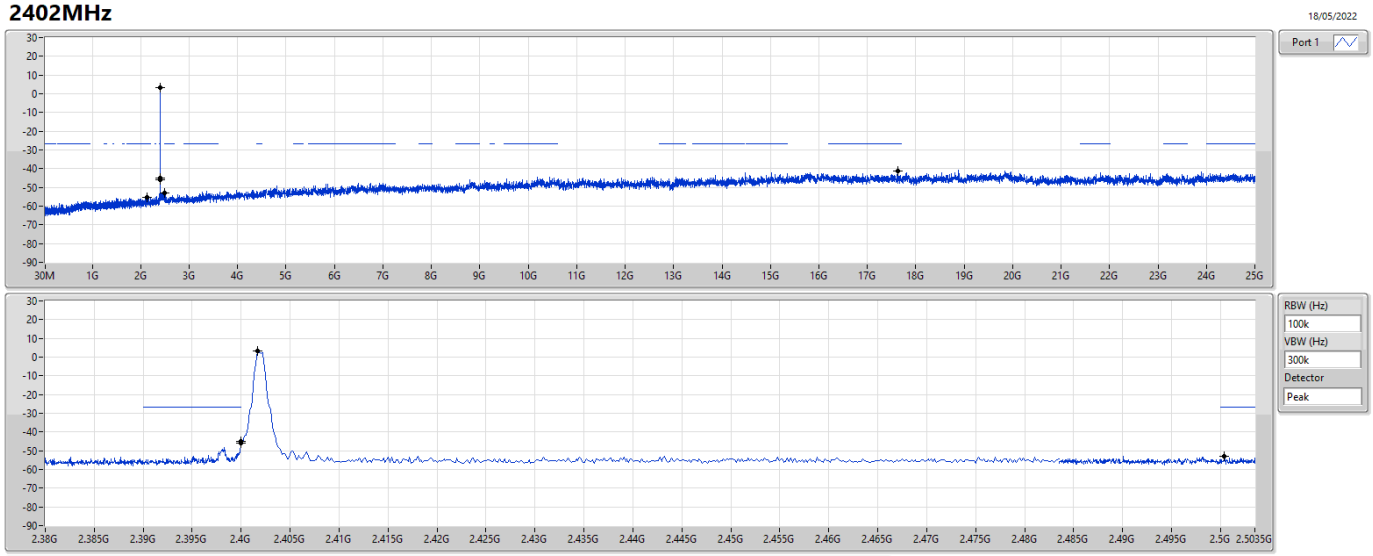
2480MHz



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
2.47983G	-0.78	-30.78	2.0698G	-55.63	2.39888G	-54.04	2.4G	-56.12	2.50342G	-53.65	24.74973G	-42.04	1

BT-LE(500kbps) **CSENdB-DTS**

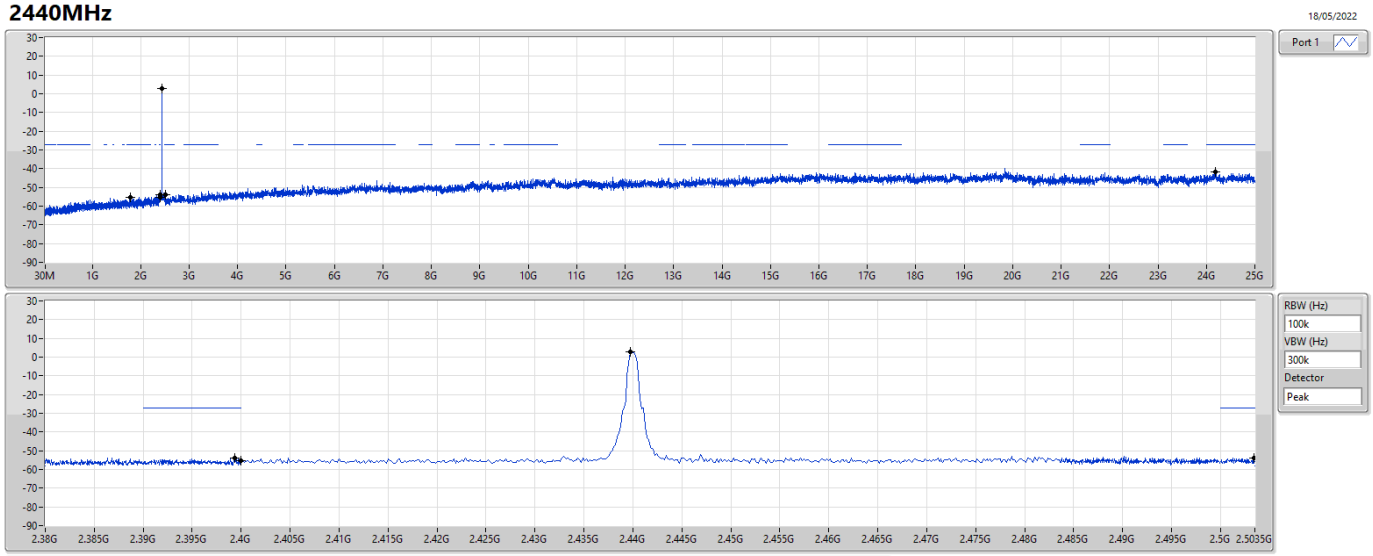
2402MHz



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
2.40167G	3.38	-26.62	2.1215G	-55.30	2.4G	-45.77	2.4G	-45.03	2.50038G	-53.11	17.63521G	-41.26	1

BT-LE(500kbps) **CSENdB-DTS**

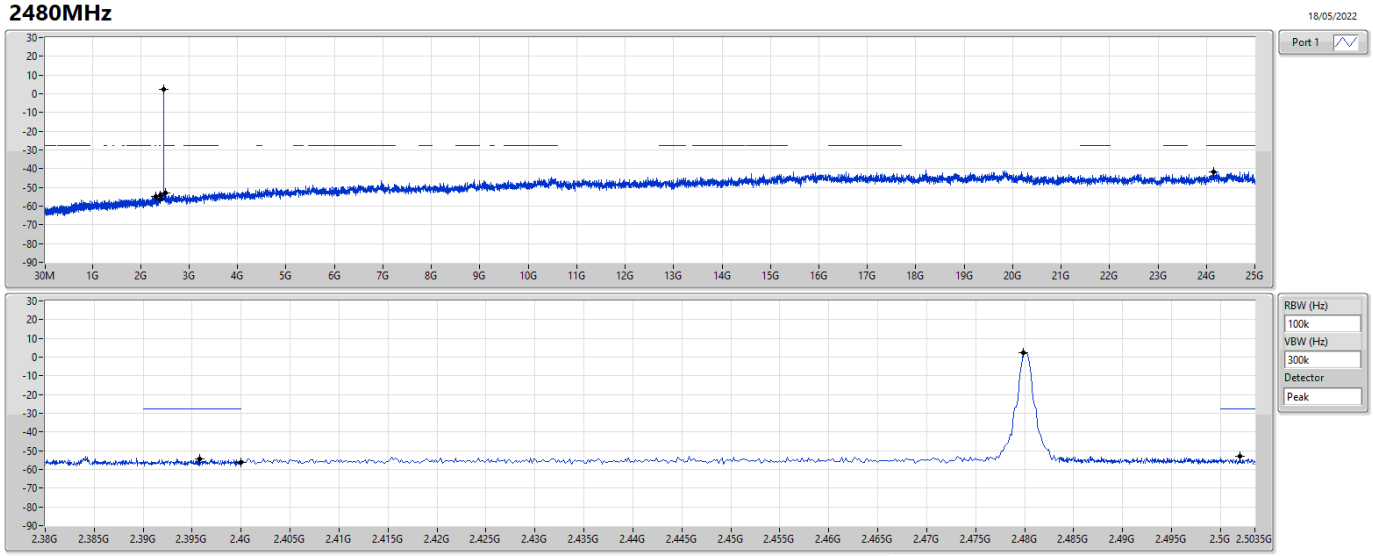
2440MHz



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
2.43975G	2.70	-27.30	1.79485G	-55.44	2.39932G	-53.82	2.4G	-55.23	2.50338G	-53.93	24.1845G	-41.78	1

BT-LE(500kbps) **CSENdB-DTS**

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
2.47983G	2.53	-27.47	2.30363G	-54.75	2.39572G	-54.50	2.4G	-56.35	2.50198G	-53.04	24.15357G	-41.51	1

Summary

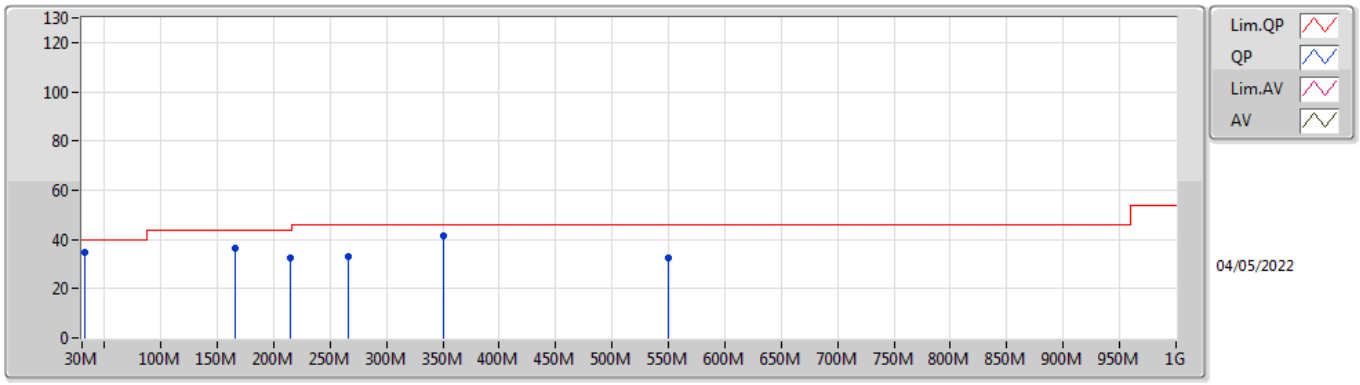
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	350.1M	42.82	46.00	-3.18	3	Horizontal	360	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	31.94M	34.53	40.00	-5.47	3	Vertical	0	1.00	-
2440MHz	Pass	PK	165.8M	36.22	43.50	-7.28	3	Vertical	0	1.00	-
2440MHz	Pass	PK	214.3M	32.64	43.50	-10.86	3	Vertical	0	1.00	-
2440MHz	Pass	PK	266.68M	32.99	46.00	-13.01	3	Vertical	0	1.00	-
2440MHz	Pass	PK	350.1M	41.44	46.00	-4.56	3	Vertical	0	1.00	-
2440MHz	Pass	PK	549.92M	32.70	46.00	-13.30	3	Vertical	0	1.00	-
2440MHz	Pass	PK	33.88M	31.53	40.00	-8.47	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	132.82M	32.23	43.50	-11.27	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	165.8M	37.73	43.50	-5.77	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	249.22M	34.38	46.00	-11.62	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	350.1M	42.82	46.00	-3.18	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	419.94M	34.77	46.00	-11.23	3	Horizontal	360	1.00	-

BT-LE(2Mbps)

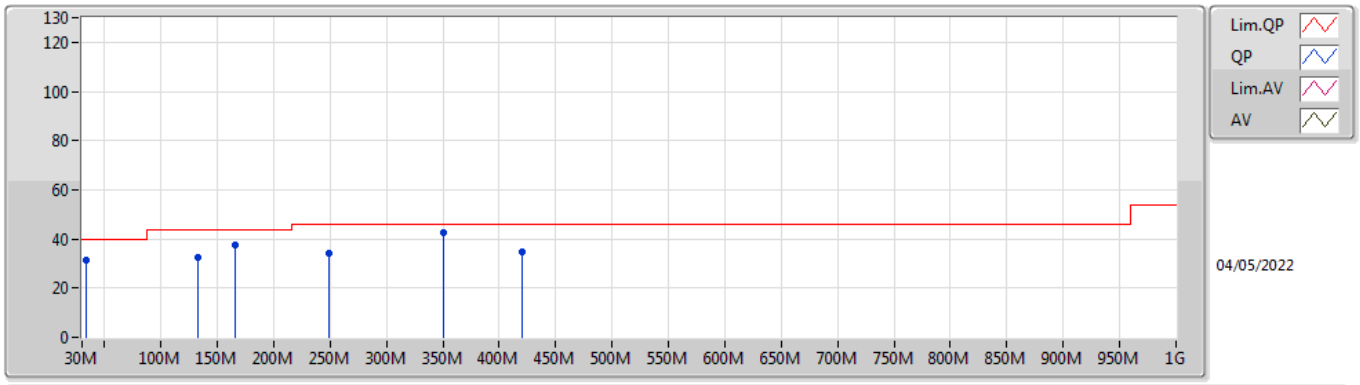
2440MHz_Adapter



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	31.94M	34.53	40.00	-5.47	-3.85	3	Vertical	0	1.00	-	38.38	22.18	1.02	27.05
PK	165.8M	36.22	43.50	-7.28	-10.60	3	Vertical	0	1.00	-	46.82	15.08	1.82	27.50
PK	214.3M	32.64	43.50	-10.86	-10.99	3	Vertical	0	1.00	-	43.63	14.14	2.10	27.23
PK	266.68M	32.99	46.00	-13.01	-6.28	3	Vertical	0	1.00	-	39.27	18.41	2.34	27.03
PK	350.1M	41.44	46.00	-4.56	-5.03	3	Vertical	0	1.00	-	46.47	19.59	2.71	27.33
PK	549.92M	32.70	46.00	-13.30	-1.02	3	Vertical	0	1.00	-	33.72	23.89	3.41	28.32

BT-LE(2Mbps)

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	33.88M	31.53	40.00	-8.47	-4.98	3	Horizontal	360	1.00	-	36.51	21.11	1.02	27.11
PK	132.82M	32.23	43.50	-11.27	-9.10	3	Horizontal	360	1.00	-	41.33	16.95	1.62	27.67
PK	165.8M	37.73	43.50	-5.77	-10.60	3	Horizontal	360	1.00	-	48.33	15.08	1.82	27.50
PK	249.22M	34.38	46.00	-11.62	-7.29	3	Horizontal	360	1.00	-	41.67	17.47	2.26	27.02
PK	350.1M	42.82	46.00	-3.18	-5.03	3	Horizontal	360	1.00	-	47.85	19.59	2.71	27.33
PK	419.94M	34.77	46.00	-11.23	-3.14	3	Horizontal	360	1.00	-	37.91	21.80	2.96	27.90

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-LE(1Mbps)	Pass	AV	2.4835G	48.70	54.00	-5.30	3	Vertical	360	1.22	-
BT-LE(2Mbps)	Pass	AV	2.4835G	50.74	54.00	-3.26	3	Vertical	24	1.00	-
BT-LE(125kbps)	Pass	AV	2.4835G	49.03	54.00	-4.97	3	Vertical	23	1.00	-
BT-LE(500kbps)	Pass	AV	2.4835G	48.77	54.00	-5.23	3	Horizontal	20	2.89	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.352G	48.40	54.00	-5.60	3	Vertical	336	1.46	-
2402MHz	Pass	AV	2.402G	95.48	Inf	-Inf	3	Vertical	336	1.46	-
2402MHz	Pass	PK	2.3536G	60.36	74.00	-13.64	3	Vertical	336	1.46	-
2402MHz	Pass	PK	2.4018G	97.08	Inf	-Inf	3	Vertical	336	1.46	-
2402MHz	Pass	AV	2.3564G	48.40	54.00	-5.60	3	Horizontal	26	1.57	-
2402MHz	Pass	AV	2.402G	98.87	Inf	-Inf	3	Horizontal	26	1.57	-
2402MHz	Pass	PK	2.381G	60.34	74.00	-13.66	3	Horizontal	26	1.57	-
2402MHz	Pass	PK	2.4018G	100.56	Inf	-Inf	3	Horizontal	26	1.57	-
2402MHz	Pass	AV	4.80406G	30.50	54.00	-23.50	3	Vertical	323	1.55	-
2402MHz	Pass	PK	4.8041G	44.10	74.00	-29.90	3	Vertical	323	1.55	-
2402MHz	Pass	AV	4.80396G	29.99	54.00	-24.01	3	Horizontal	100	1.50	-
2402MHz	Pass	PK	4.80326G	44.36	74.00	-29.64	3	Horizontal	100	1.50	-
2440MHz	Pass	AV	2.3496G	48.40	54.00	-5.60	3	Vertical	352	1.41	-
2440MHz	Pass	AV	2.44G	93.76	Inf	-Inf	3	Vertical	352	1.41	-
2440MHz	Pass	AV	2.4992G	47.91	54.00	-6.09	3	Vertical	352	1.41	-
2440MHz	Pass	PK	2.3512G	59.69	74.00	-14.31	3	Vertical	352	1.41	-
2440MHz	Pass	PK	2.4404G	95.32	Inf	-Inf	3	Vertical	352	1.41	-
2440MHz	Pass	PK	2.4936G	58.84	74.00	-15.16	3	Vertical	352	1.41	-
2440MHz	Pass	AV	2.3436G	48.47	54.00	-5.53	3	Horizontal	52	1.91	-
2440MHz	Pass	AV	2.44G	95.43	Inf	-Inf	3	Horizontal	52	1.91	-
2440MHz	Pass	AV	2.4856G	47.91	54.00	-6.09	3	Horizontal	52	1.91	-
2440MHz	Pass	PK	2.3696G	60.66	74.00	-13.34	3	Horizontal	52	1.91	-
2440MHz	Pass	PK	2.4404G	96.96	Inf	-Inf	3	Horizontal	52	1.91	-
2440MHz	Pass	PK	2.4908G	58.85	74.00	-15.15	3	Horizontal	52	1.91	-
2440MHz	Pass	AV	4.8803G	31.21	54.00	-22.79	3	Vertical	288	1.50	-
2440MHz	Pass	AV	7.31626G	36.58	54.00	-17.42	3	Vertical	360	1.50	-
2440MHz	Pass	PK	4.88016G	45.44	74.00	-28.56	3	Vertical	288	1.50	-
2440MHz	Pass	PK	7.32254G	51.09	74.00	-22.91	3	Vertical	360	1.50	-
2440MHz	Pass	AV	4.88014G	30.57	54.00	-23.43	3	Horizontal	55	2.74	-
2440MHz	Pass	AV	7.31536G	36.60	54.00	-17.40	3	Horizontal	0	1.73	-
2440MHz	Pass	PK	4.87724G	43.80	74.00	-30.20	3	Horizontal	55	2.74	-
2440MHz	Pass	PK	7.31584G	50.23	74.00	-23.77	3	Horizontal	0	1.73	-
2480MHz	Pass	AV	2.48G	96.09	Inf	-Inf	3	Vertical	360	1.22	-
2480MHz	Pass	AV	2.4835G	48.70	54.00	-5.30	3	Vertical	360	1.22	-
2480MHz	Pass	PK	2.4798G	97.72	Inf	-Inf	3	Vertical	360	1.22	-
2480MHz	Pass	PK	2.4835G	58.76	74.00	-15.24	3	Vertical	360	1.22	-
2480MHz	Pass	AV	2.48G	94.80	Inf	-Inf	3	Horizontal	20	3.00	-
2480MHz	Pass	AV	2.4835G	48.57	54.00	-5.43	3	Horizontal	20	3.00	-
2480MHz	Pass	PK	2.4798G	96.42	Inf	-Inf	3	Horizontal	20	3.00	-
2480MHz	Pass	PK	2.4854G	58.65	74.00	-15.35	3	Horizontal	20	3.00	-
2480MHz	Pass	AV	4.96026G	30.40	54.00	-23.60	3	Vertical	295	2.19	-
2480MHz	Pass	AV	7.43548G	36.80	54.00	-17.20	3	Vertical	119	1.50	-
2480MHz	Pass	PK	4.9586G	43.79	74.00	-30.21	3	Vertical	295	2.19	-
2480MHz	Pass	PK	7.43832G	50.52	74.00	-23.48	3	Vertical	119	1.50	-
2480MHz	Pass	AV	4.95894G	30.42	54.00	-23.58	3	Horizontal	52	2.23	-
2480MHz	Pass	AV	7.43974G	36.97	54.00	-17.03	3	Horizontal	0	1.97	-
2480MHz	Pass	PK	4.9606G	45.28	74.00	-28.72	3	Horizontal	52	2.23	-
2480MHz	Pass	PK	7.44036G	50.32	74.00	-23.68	3	Horizontal	0	1.97	-
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3566G	48.36	54.00	-5.64	3	Vertical	336	1.46	-
2402MHz	Pass	AV	2.402G	92.83	Inf	-Inf	3	Vertical	336	1.46	-
2402MHz	Pass	PK	2.3542G	59.94	74.00	-14.06	3	Vertical	336	1.46	-
2402MHz	Pass	PK	2.4016G	96.34	Inf	-Inf	3	Vertical	336	1.46	-
2402MHz	Pass	AV	2.352G	48.35	54.00	-5.65	3	Horizontal	30	1.50	-
2402MHz	Pass	AV	2.402G	95.53	Inf	-Inf	3	Horizontal	30	1.50	-
2402MHz	Pass	PK	2.3788G	59.24	74.00	-14.76	3	Horizontal	30	1.50	-
2402MHz	Pass	PK	2.4016G	99.10	Inf	-Inf	3	Horizontal	30	1.50	-
2402MHz	Pass	AV	4.80316G	30.20	54.00	-23.80	3	Vertical	321	1.32	-
2402MHz	Pass	PK	4.80786G	43.62	74.00	-30.38	3	Vertical	321	1.32	-
2402MHz	Pass	AV	4.80028G	30.01	54.00	-23.99	3	Horizontal	217	2.66	-

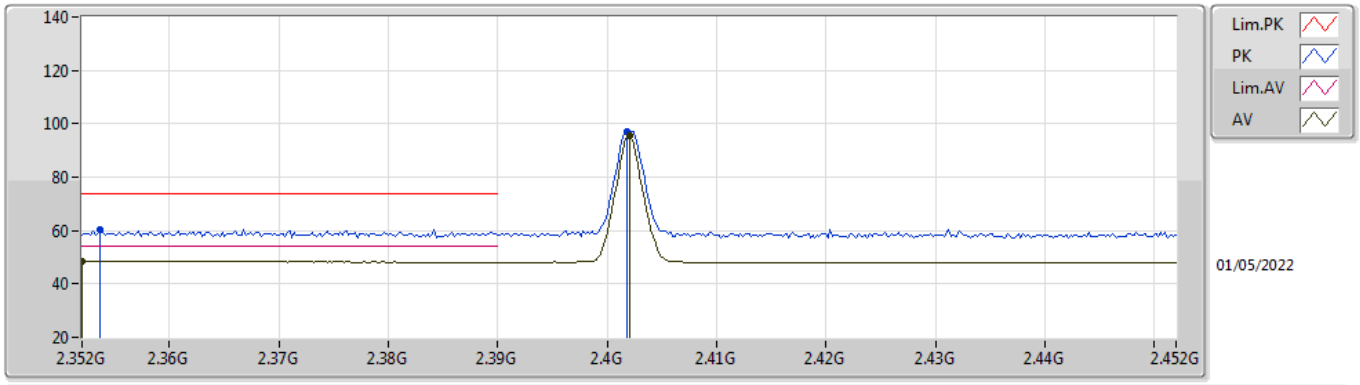
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2402MHz	Pass	PK	4.8015G	43.89	74.00	-30.11	3	Horizontal	217	2.66	-
2440MHz	Pass	AV	2.3436G	48.34	54.00	-5.66	3	Vertical	352	1.40	-
2440MHz	Pass	AV	2.44G	94.74	Inf	-Inf	3	Vertical	352	1.40	-
2440MHz	Pass	AV	2.5G	47.84	54.00	-6.16	3	Vertical	352	1.40	-
2440MHz	Pass	PK	2.3724G	59.53	74.00	-14.47	3	Vertical	352	1.40	-
2440MHz	Pass	PK	2.4404G	98.24	Inf	-Inf	3	Vertical	352	1.40	-
2440MHz	Pass	PK	2.4976G	59.20	74.00	-14.80	3	Vertical	352	1.40	-
2440MHz	Pass	AV	2.344G	48.43	54.00	-5.57	3	Horizontal	48	2.07	-
2440MHz	Pass	AV	2.44G	95.70	Inf	-Inf	3	Horizontal	48	2.07	-
2440MHz	Pass	AV	2.4988G	47.83	54.00	-6.17	3	Horizontal	48	2.07	-
2440MHz	Pass	PK	2.3444G	60.73	74.00	-13.27	3	Horizontal	48	2.07	-
2440MHz	Pass	PK	2.4396G	99.23	Inf	-Inf	3	Horizontal	48	2.07	-
2440MHz	Pass	PK	2.4916G	58.59	74.00	-15.41	3	Horizontal	48	2.07	-
2440MHz	Pass	AV	4.8809G	30.59	54.00	-23.41	3	Vertical	290	1.50	-
2440MHz	Pass	AV	7.32224G	36.38	54.00	-17.62	3	Vertical	157	1.50	-
2440MHz	Pass	PK	4.87692G	43.64	74.00	-30.36	3	Vertical	290	1.50	-
2440MHz	Pass	PK	7.3158G	50.46	74.00	-23.54	3	Vertical	157	1.50	-
2440MHz	Pass	AV	4.87912G	29.98	54.00	-24.02	3	Horizontal	344	2.82	-
2440MHz	Pass	AV	7.31658G	36.40	54.00	-17.60	3	Horizontal	317	1.50	-
2440MHz	Pass	PK	4.88204G	43.94	74.00	-30.06	3	Horizontal	344	2.82	-
2440MHz	Pass	PK	7.31664G	50.22	74.00	-23.78	3	Horizontal	317	1.50	-
2480MHz	Pass	AV	2.48G	96.07	Inf	-Inf	3	Vertical	24	1.00	-
2480MHz	Pass	AV	2.4835G	50.74	54.00	-3.26	3	Vertical	24	1.00	-
2480MHz	Pass	PK	2.4806G	99.71	Inf	-Inf	3	Vertical	24	1.00	-
2480MHz	Pass	PK	2.4835G	59.52	74.00	-14.48	3	Vertical	24	1.00	-
2480MHz	Pass	AV	2.48G	93.21	Inf	-Inf	3	Horizontal	55	2.33	-
2480MHz	Pass	AV	2.4835G	49.52	54.00	-4.48	3	Horizontal	55	2.33	-
2480MHz	Pass	PK	2.4794G	96.87	Inf	-Inf	3	Horizontal	55	2.33	-
2480MHz	Pass	PK	2.4835G	59.79	74.00	-14.21	3	Horizontal	55	2.33	-
2480MHz	Pass	AV	4.95518G	30.16	54.00	-23.84	3	Vertical	0	3.00	-
2480MHz	Pass	AV	7.43844G	36.80	54.00	-17.20	3	Vertical	0	2.81	-
2480MHz	Pass	PK	4.95844G	43.79	74.00	-30.21	3	Vertical	0	3.00	-
2480MHz	Pass	PK	7.4378G	50.93	74.00	-23.07	3	Vertical	0	2.81	-
2480MHz	Pass	AV	4.95898G	30.23	54.00	-23.77	3	Horizontal	50	2.03	-
2480MHz	Pass	AV	7.43862G	36.88	54.00	-17.12	3	Horizontal	330	1.01	-
2480MHz	Pass	PK	4.95892G	45.71	74.00	-28.29	3	Horizontal	50	2.03	-
2480MHz	Pass	PK	7.4382G	50.64	74.00	-23.36	3	Horizontal	330	1.01	-
BT-LE(125kbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3544G	48.25	54.00	-5.75	3	Vertical	336	1.46	-
2402MHz	Pass	AV	2.402G	93.20	Inf	-Inf	3	Vertical	336	1.46	-
2402MHz	Pass	PK	2.3876G	59.98	74.00	-14.02	3	Vertical	336	1.46	-
2402MHz	Pass	PK	2.4024G	94.99	Inf	-Inf	3	Vertical	336	1.46	-
2402MHz	Pass	AV	2.3552G	48.36	54.00	-5.64	3	Horizontal	31	1.98	-
2402MHz	Pass	AV	2.402G	97.95	Inf	-Inf	3	Horizontal	31	1.98	-
2402MHz	Pass	PK	2.3824G	59.96	74.00	-14.04	3	Horizontal	31	1.98	-
2402MHz	Pass	PK	2.4018G	99.77	Inf	-Inf	3	Horizontal	31	1.98	-
2402MHz	Pass	AV	4.80365G	29.96	54.00	-24.04	3	Vertical	52	1.50	-
2402MHz	Pass	PK	4.80455G	43.35	74.00	-30.65	3	Vertical	52	1.50	-
2402MHz	Pass	AV	4.8038G	29.49	54.00	-24.51	3	Horizontal	209	1.61	-
2402MHz	Pass	PK	4.8039G	43.23	74.00	-30.77	3	Horizontal	209	1.61	-
2440MHz	Pass	AV	2.344G	48.42	54.00	-5.58	3	Vertical	351	1.41	-
2440MHz	Pass	AV	2.44G	95.94	Inf	-Inf	3	Vertical	351	1.41	-
2440MHz	Pass	AV	2.4884G	47.96	54.00	-6.04	3	Vertical	351	1.41	-
2440MHz	Pass	PK	2.3432G	59.49	74.00	-14.51	3	Vertical	351	1.41	-
2440MHz	Pass	PK	2.4404G	97.69	Inf	-Inf	3	Vertical	351	1.41	-
2440MHz	Pass	PK	2.4968G	58.83	74.00	-15.17	3	Vertical	351	1.41	-
2440MHz	Pass	AV	2.344G	48.42	54.00	-5.58	3	Horizontal	55	1.92	-
2440MHz	Pass	AV	2.44G	96.90	Inf	-Inf	3	Horizontal	55	1.92	-
2440MHz	Pass	AV	2.4868G	47.86	54.00	-6.14	3	Horizontal	55	1.92	-
2440MHz	Pass	PK	2.3668G	59.71	74.00	-14.29	3	Horizontal	55	1.92	-
2440MHz	Pass	PK	2.4404G	98.66	Inf	-Inf	3	Horizontal	55	1.92	-
2440MHz	Pass	PK	2.484G	58.77	74.00	-15.23	3	Horizontal	55	1.92	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2440MHz	Pass	AV	4.8804G	30.93	54.00	-23.07	3	Vertical	287	1.50	-
2440MHz	Pass	AV	7.32046G	36.28	54.00	-17.72	3	Vertical	118	2.91	-
2440MHz	Pass	PK	4.88035G	44.07	74.00	-29.93	3	Vertical	287	1.50	-
2440MHz	Pass	PK	7.32088G	49.98	74.00	-24.02	3	Vertical	118	2.91	-
2440MHz	Pass	AV	4.88042G	29.97	54.00	-24.03	3	Horizontal	204	1.49	-
2440MHz	Pass	AV	7.31927G	36.23	54.00	-17.77	3	Horizontal	32	1.50	-
2440MHz	Pass	PK	4.88032G	43.52	74.00	-30.48	3	Horizontal	204	1.49	-
2440MHz	Pass	PK	7.32084G	50.28	74.00	-23.72	3	Horizontal	32	1.50	-
2480MHz	Pass	AV	2.48G	97.59	Inf	-Inf	3	Vertical	23	1.00	-
2480MHz	Pass	AV	2.4835G	49.03	54.00	-4.97	3	Vertical	23	1.00	-
2480MHz	Pass	PK	2.4798G	99.40	Inf	-Inf	3	Vertical	23	1.00	-
2480MHz	Pass	PK	2.49G	58.67	74.00	-15.33	3	Vertical	23	1.00	-
2480MHz	Pass	AV	2.48G	94.66	Inf	-Inf	3	Horizontal	55	2.33	-
2480MHz	Pass	AV	2.4835G	48.43	54.00	-5.57	3	Horizontal	55	2.33	-
2480MHz	Pass	PK	2.4798G	96.47	Inf	-Inf	3	Horizontal	55	2.33	-
2480MHz	Pass	PK	2.4868G	59.69	74.00	-14.31	3	Horizontal	55	2.33	-
2480MHz	Pass	AV	4.96083G	29.71	54.00	-24.29	3	Vertical	214	1.15	-
2480MHz	Pass	AV	7.44029G	36.58	54.00	-17.42	3	Vertical	169	2.46	-
2480MHz	Pass	PK	4.96001G	42.96	74.00	-31.04	3	Vertical	214	1.15	-
2480MHz	Pass	PK	7.44074G	49.37	74.00	-24.63	3	Vertical	169	2.46	-
2480MHz	Pass	AV	4.95888G	29.71	54.00	-24.29	3	Horizontal	210	1.33	-
2480MHz	Pass	AV	7.43858G	36.58	54.00	-17.42	3	Horizontal	335	1.30	-
2480MHz	Pass	PK	4.95947G	42.92	74.00	-31.08	3	Horizontal	210	1.33	-
2480MHz	Pass	PK	7.44002G	50.08	74.00	-23.92	3	Horizontal	335	1.30	-
BT-LE(500kbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.356G	48.33	54.00	-5.67	3	Vertical	337	1.46	-
2402MHz	Pass	AV	2.402G	94.89	Inf	-Inf	3	Vertical	337	1.46	-
2402MHz	Pass	PK	2.3632G	60.34	74.00	-13.66	3	Vertical	337	1.46	-
2402MHz	Pass	PK	2.4018G	96.48	Inf	-Inf	3	Vertical	337	1.46	-
2402MHz	Pass	AV	2.3572G	48.34	54.00	-5.66	3	Horizontal	31	1.96	-
2402MHz	Pass	AV	2.402G	99.18	Inf	-Inf	3	Horizontal	31	1.96	-
2402MHz	Pass	PK	2.3866G	60.23	74.00	-13.77	3	Horizontal	31	1.96	-
2402MHz	Pass	PK	2.4018G	100.83	Inf	-Inf	3	Horizontal	31	1.96	-
2402MHz	Pass	AV	4.80425G	30.01	54.00	-23.99	3	Vertical	324	1.01	-
2402MHz	Pass	PK	4.8038G	43.56	74.00	-30.44	3	Vertical	324	1.01	-
2402MHz	Pass	AV	4.80358G	29.82	54.00	-24.18	3	Horizontal	5	2.47	-
2402MHz	Pass	PK	4.80395G	43.76	74.00	-30.24	3	Horizontal	5	2.47	-
2440MHz	Pass	AV	2.344G	48.44	54.00	-5.56	3	Vertical	352	1.40	-
2440MHz	Pass	AV	2.44G	96.92	Inf	-Inf	3	Vertical	352	1.40	-
2440MHz	Pass	AV	2.4976G	47.88	54.00	-6.12	3	Vertical	352	1.40	-
2440MHz	Pass	PK	2.3432G	59.63	74.00	-14.37	3	Vertical	352	1.40	-
2440MHz	Pass	PK	2.4404G	98.44	Inf	-Inf	3	Vertical	352	1.40	-
2440MHz	Pass	PK	2.496G	58.47	74.00	-15.53	3	Vertical	352	1.40	-
2440MHz	Pass	AV	2.3436G	48.48	54.00	-5.52	3	Horizontal	53	2.09	-
2440MHz	Pass	AV	2.44G	98.38	Inf	-Inf	3	Horizontal	53	2.09	-
2440MHz	Pass	AV	2.4884G	47.86	54.00	-6.14	3	Horizontal	53	2.09	-
2440MHz	Pass	PK	2.3712G	59.07	74.00	-14.93	3	Horizontal	53	2.09	-
2440MHz	Pass	PK	2.44G	99.96	Inf	-Inf	3	Horizontal	53	2.09	-
2440MHz	Pass	PK	2.4888G	60.06	74.00	-13.94	3	Horizontal	53	2.09	-
2440MHz	Pass	AV	4.88034G	30.94	54.00	-23.06	3	Vertical	287	1.50	-
2440MHz	Pass	AV	7.31915G	36.40	54.00	-17.60	3	Vertical	15	2.04	-
2440MHz	Pass	PK	4.87956G	44.65	74.00	-29.35	3	Vertical	287	1.50	-
2440MHz	Pass	PK	7.32013G	49.76	74.00	-24.24	3	Vertical	15	2.04	-
2440MHz	Pass	AV	4.88042G	30.09	54.00	-23.91	3	Horizontal	136	1.50	-
2440MHz	Pass	AV	7.32065G	36.29	54.00	-17.71	3	Horizontal	122	1.43	-
2440MHz	Pass	PK	4.88048G	43.36	74.00	-30.64	3	Horizontal	136	1.50	-
2440MHz	Pass	PK	7.32073G	50.01	74.00	-23.99	3	Horizontal	122	1.43	-
2480MHz	Pass	AV	2.48G	94.74	Inf	-Inf	3	Vertical	53	2.09	-
2480MHz	Pass	AV	2.4835G	48.43	54.00	-5.57	3	Vertical	53	2.09	-
2480MHz	Pass	PK	2.4798G	96.30	Inf	-Inf	3	Vertical	53	2.09	-
2480MHz	Pass	PK	2.49G	58.88	74.00	-15.12	3	Vertical	53	2.09	-
2480MHz	Pass	AV	2.48G	96.44	Inf	-Inf	3	Horizontal	20	2.89	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2480MHz	Pass	AV	2.4835G	48.77	54.00	-5.23	3	Horizontal	20	2.89	-
2480MHz	Pass	PK	2.4802G	98.04	Inf	-Inf	3	Horizontal	20	2.89	-
2480MHz	Pass	PK	2.486G	58.51	74.00	-15.49	3	Horizontal	20	2.89	-
2480MHz	Pass	AV	4.9601G	30.11	54.00	-23.89	3	Vertical	0	2.96	-
2480MHz	Pass	AV	7.43936G	36.94	54.00	-17.06	3	Vertical	0	2.57	-
2480MHz	Pass	PK	4.96056G	43.91	74.00	-30.09	3	Vertical	0	2.96	-
2480MHz	Pass	PK	7.43906G	50.75	74.00	-23.25	3	Vertical	0	2.57	-
2480MHz	Pass	AV	4.95991G	30.15	54.00	-23.85	3	Horizontal	61	1.80	-
2480MHz	Pass	AV	7.44022G	36.78	54.00	-17.22	3	Horizontal	342	1.00	-
2480MHz	Pass	PK	4.9614G	44.69	74.00	-29.31	3	Horizontal	61	1.80	-
2480MHz	Pass	PK	7.43867G	50.50	74.00	-23.50	3	Horizontal	342	1.00	-

BT-LE(1Mbps)

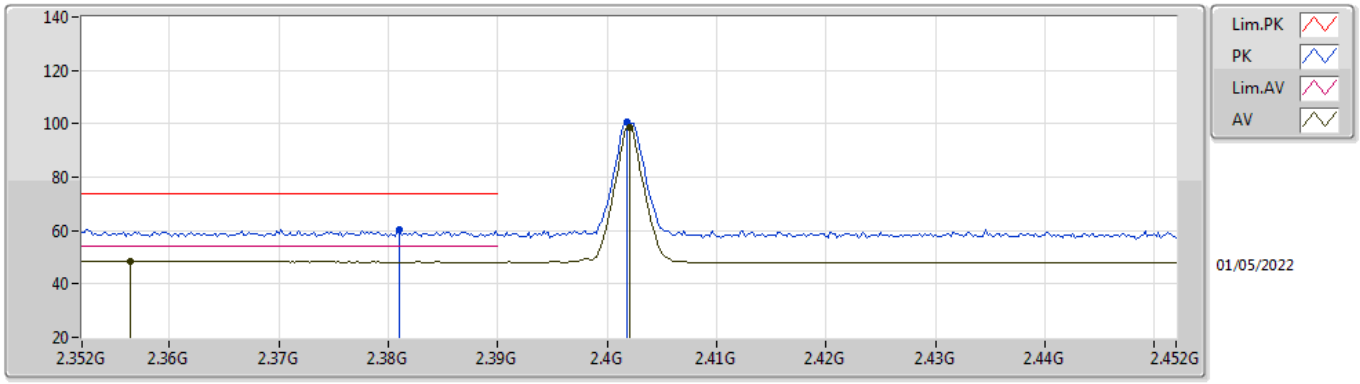
2402MHz_TX



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	2.352G	48.40	54.00	-5.60	36.05	3	Vertical	336	1.46	-	12.35	27.80	8.25	-
AV	2.402G	95.48	Inf	-Inf	35.98	3	Vertical	336	1.46	-	59.50	27.69	8.29	-
PK	2.3536G	60.36	74.00	-13.64	36.05	3	Vertical	336	1.46	-	24.31	27.79	8.26	-
PK	2.4018G	97.08	Inf	-Inf	35.98	3	Vertical	336	1.46	-	61.10	27.69	8.29	-

BT-LE(1Mbps)

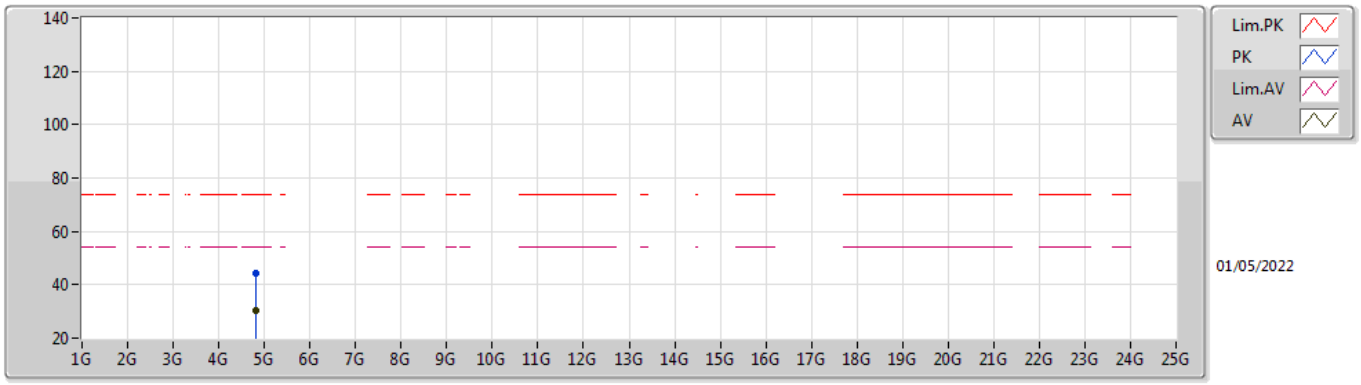
2402MHz_TX



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	2.3564G	48.40	54.00	-5.60	36.05	3	Horizontal	26	1.57	-	12.35	27.79	8.26	-
AV	2.402G	98.87	Inf	-Inf	35.98	3	Horizontal	26	1.57	-	62.89	27.69	8.29	-
PK	2.381G	60.34	74.00	-13.66	36.02	3	Horizontal	26	1.57	-	24.32	27.74	8.28	-
PK	2.4018G	100.56	Inf	-Inf	35.98	3	Horizontal	26	1.57	-	64.58	27.69	8.29	-

BT-LE(1Mbps)

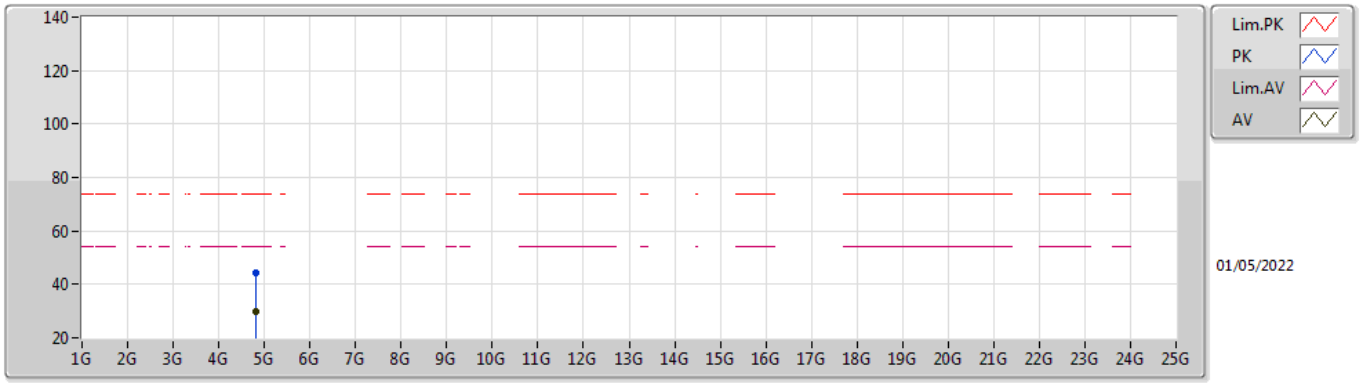
2402MHz_TX



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	4.80406G	30.50	54.00	-23.50	6.59	3	Vertical	323	1.55	-	23.91	31.11	9.67	34.19
PK	4.8041G	44.10	74.00	-29.90	6.59	3	Vertical	323	1.55	-	37.51	31.11	9.67	34.19

BT-LE(1Mbps)

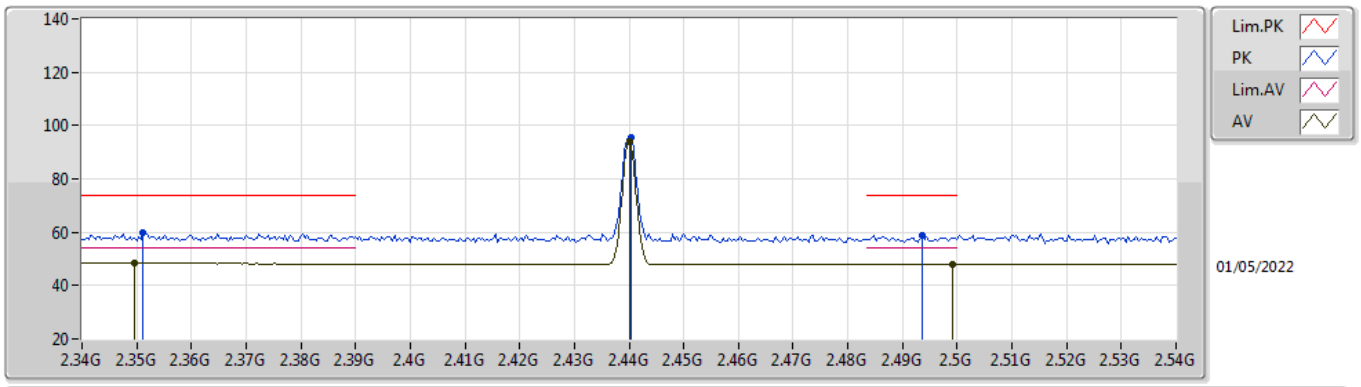
2402MHz_TX



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	4.80396G	29.99	54.00	-24.01	6.59	3	Horizontal	100	1.50	-	23.40	31.11	9.67	34.19
PK	4.80326G	44.36	74.00	-29.64	6.59	3	Horizontal	100	1.50	-	37.77	31.11	9.67	34.19

BT-LE(1Mbps)

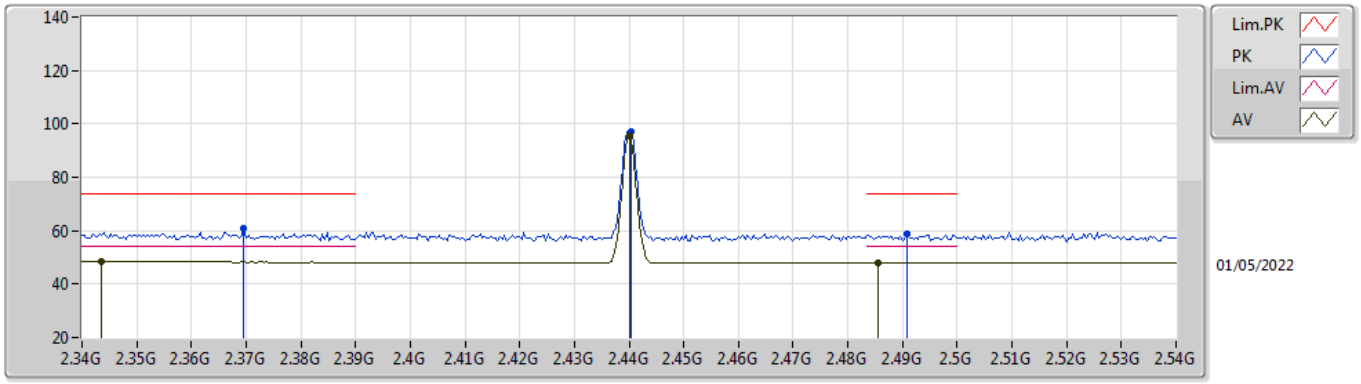
2440MHz_TX



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	2.3496G	48.40	54.00	-5.60	36.05	3	Vertical	352	1.41	-	12.35	27.80	8.25	-
AV	2.44G	93.76	Inf	-Inf	35.78	3	Vertical	352	1.41	-	57.98	27.46	8.32	-
AV	2.4992G	47.91	54.00	-6.09	35.75	3	Vertical	352	1.41	-	12.16	27.40	8.35	-
PK	2.3512G	59.69	74.00	-14.31	36.05	3	Vertical	352	1.41	-	23.64	27.80	8.25	-
PK	2.4404G	95.32	Inf	-Inf	35.78	3	Vertical	352	1.41	-	59.54	27.46	8.32	-
PK	2.4936G	58.84	74.00	-15.16	35.75	3	Vertical	352	1.41	-	23.09	27.40	8.35	-

BT-LE(1Mbps)

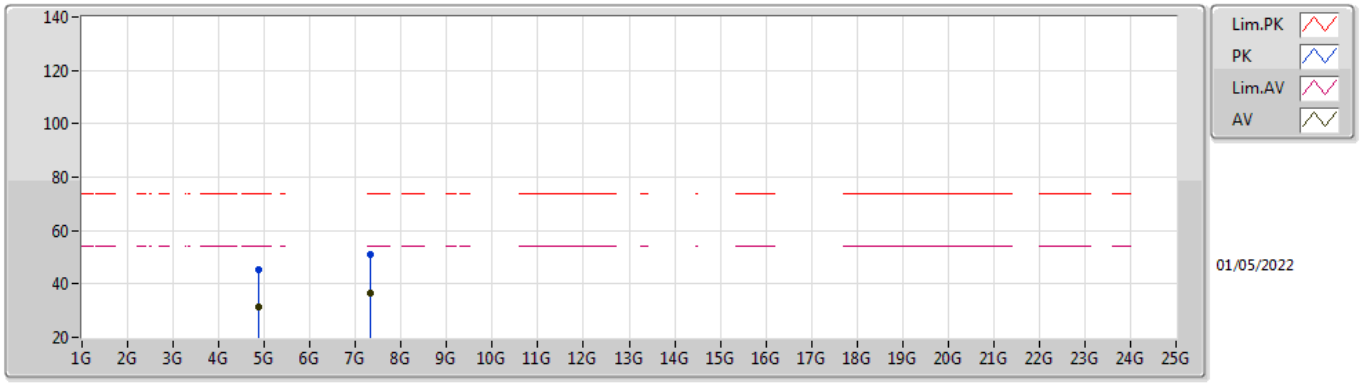
2440MHz_TX



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	2.3436G	48.47	54.00	-5.53	36.06	3	Horizontal	52	1.91	-	12.41	27.81	8.25	-
AV	2.44G	95.43	Inf	-Inf	35.78	3	Horizontal	52	1.91	-	59.65	27.46	8.32	-
AV	2.4856G	47.91	54.00	-6.09	35.75	3	Horizontal	52	1.91	-	12.16	27.40	8.35	-
PK	2.3696G	60.66	74.00	-13.34	36.03	3	Horizontal	52	1.91	-	24.63	27.76	8.27	-
PK	2.4404G	96.96	Inf	-Inf	35.78	3	Horizontal	52	1.91	-	61.18	27.46	8.32	-
PK	2.4908G	58.85	74.00	-15.15	35.75	3	Horizontal	52	1.91	-	23.10	27.40	8.35	-

BT-LE(1Mbps)

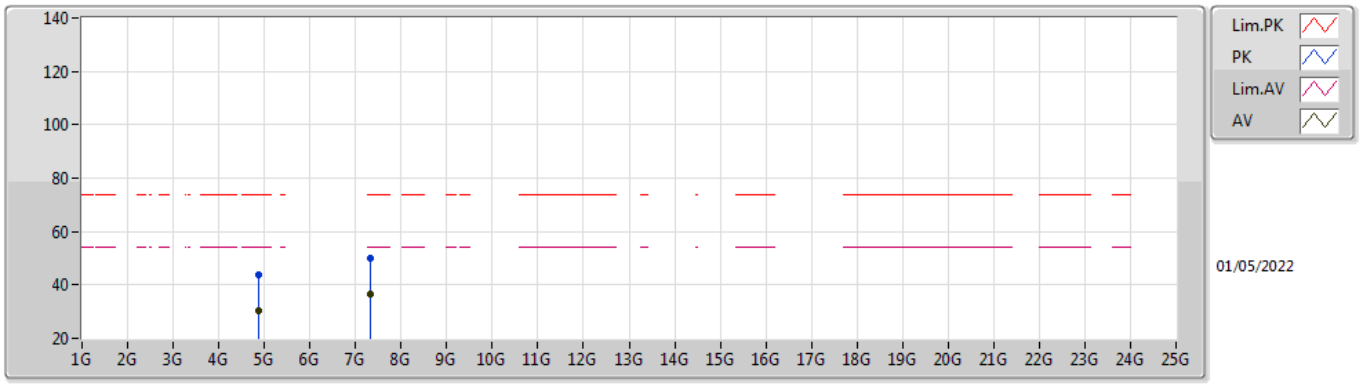
2440MHz_TX



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	4.8803G	31.21	54.00	-22.79	6.74	3	Vertical	288	1.50	-	24.47	31.20	9.70	34.16
AV	7.31626G	36.58	54.00	-17.42	13.19	3	Vertical	360	1.50	-	23.39	36.37	11.32	34.50
PK	4.88016G	45.44	74.00	-28.56	6.74	3	Vertical	288	1.50	-	38.70	31.20	9.70	34.16
PK	7.32254G	51.09	74.00	-22.91	13.17	3	Vertical	360	1.50	-	37.92	36.35	11.32	34.50

BT-LE(1Mbps)

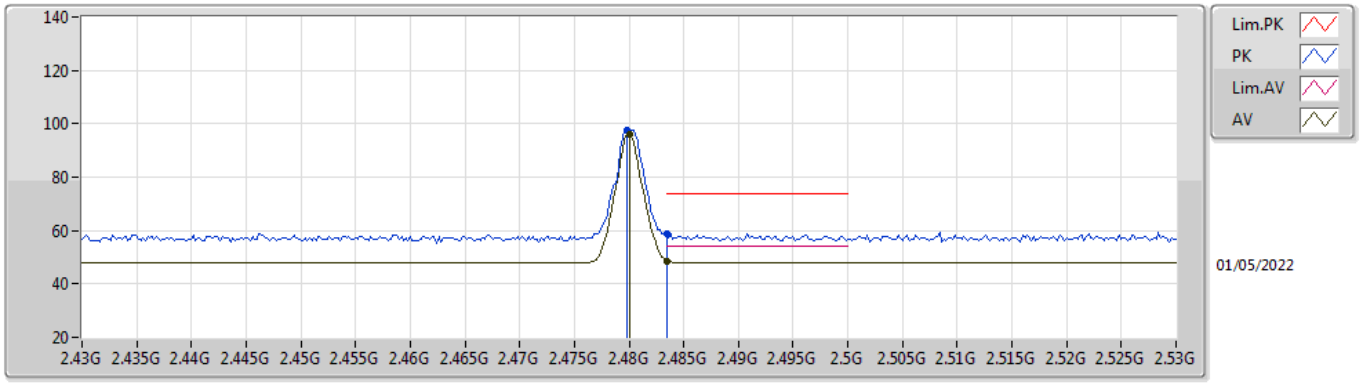
2440MHz_TX



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	4.88014G	30.57	54.00	-23.43	6.74	3	Horizontal	55	2.74	-	23.83	31.20	9.70	34.16
AV	7.31536G	36.60	54.00	-17.40	13.19	3	Horizontal	0	1.73	-	23.41	36.37	11.32	34.50
PK	4.87724G	43.80	74.00	-30.20	6.74	3	Horizontal	55	2.74	-	37.06	31.20	9.70	34.16
PK	7.31584G	50.23	74.00	-23.77	13.19	3	Horizontal	0	1.73	-	37.04	36.37	11.32	34.50

BT-LE(1Mbps)

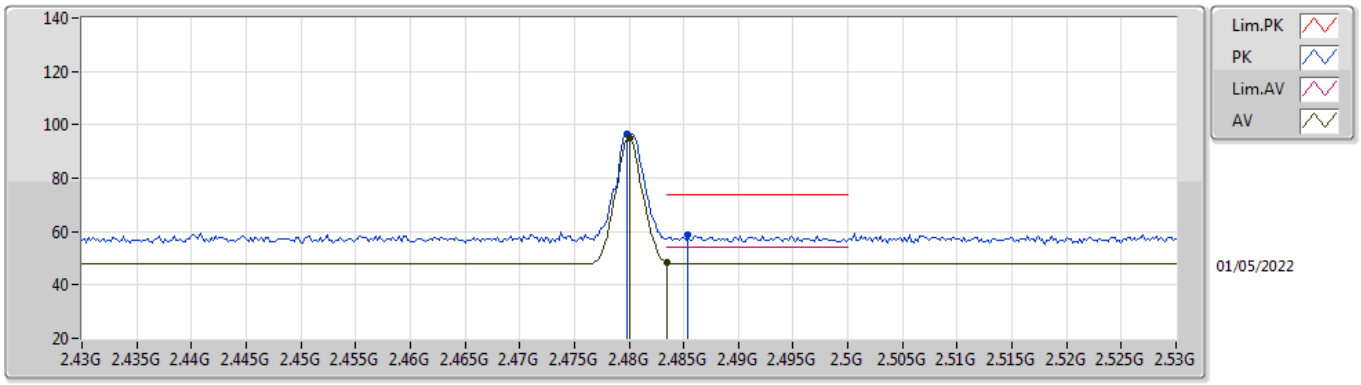
2480MHz_TX



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	2.48G	96.09	Inf	-Inf	35.74	3	Vertical	360	1.22	-	60.35	27.40	8.34	-
AV	2.4835G	48.70	54.00	-5.30	35.74	3	Vertical	360	1.22	-	12.96	27.40	8.34	-
PK	2.4798G	97.72	Inf	-Inf	35.74	3	Vertical	360	1.22	-	61.98	27.40	8.34	-
PK	2.4835G	58.76	74.00	-15.24	35.74	3	Vertical	360	1.22	-	23.02	27.40	8.34	-

BT-LE(1Mbps)

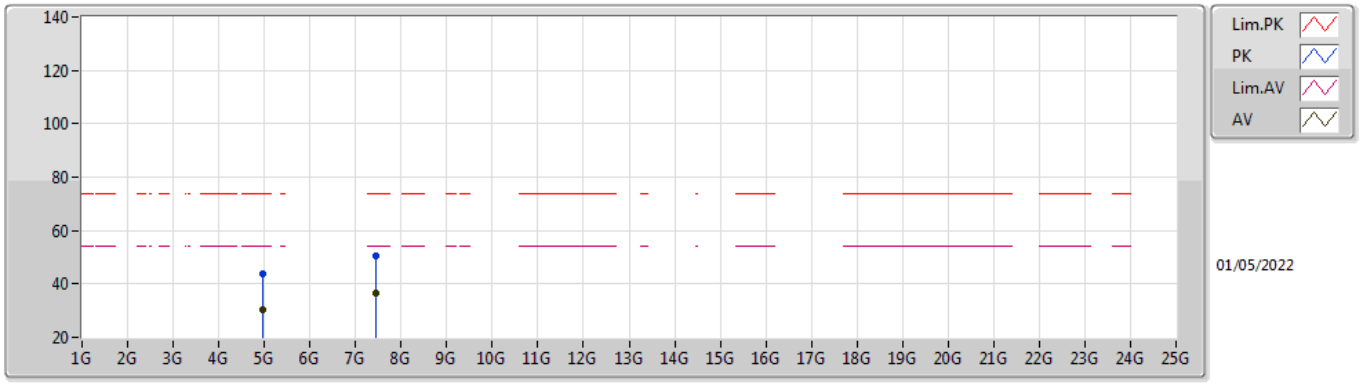
2480MHz_TX



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	2.48G	94.80	Inf	-Inf	35.74	3	Horizontal	20	3.00	-	59.06	27.40	8.34	-
AV	2.4835G	48.57	54.00	-5.43	35.74	3	Horizontal	20	3.00	-	12.83	27.40	8.34	-
PK	2.4798G	96.42	Inf	-Inf	35.74	3	Horizontal	20	3.00	-	60.68	27.40	8.34	-
PK	2.4854G	58.65	74.00	-15.35	35.75	3	Horizontal	20	3.00	-	22.90	27.40	8.35	-

BT-LE(1Mbps)

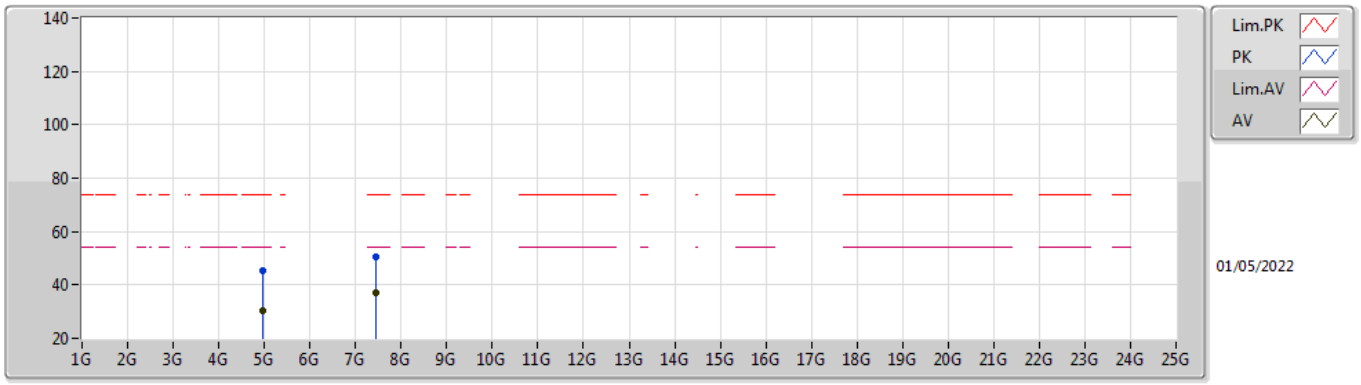
2480MHz_TX



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	4.96026G	30.40	54.00	-23.60	7.03	3	Vertical	295	2.19	-	23.37	31.42	9.73	34.12
AV	7.43548G	36.80	54.00	-17.20	13.08	3	Vertical	119	1.50	-	23.72	36.27	11.30	34.49
PK	4.9586G	43.79	74.00	-30.21	7.03	3	Vertical	295	2.19	-	36.76	31.42	9.73	34.12
PK	7.43832G	50.52	74.00	-23.48	13.09	3	Vertical	119	1.50	-	37.43	36.28	11.30	34.49

BT-LE(1Mbps)

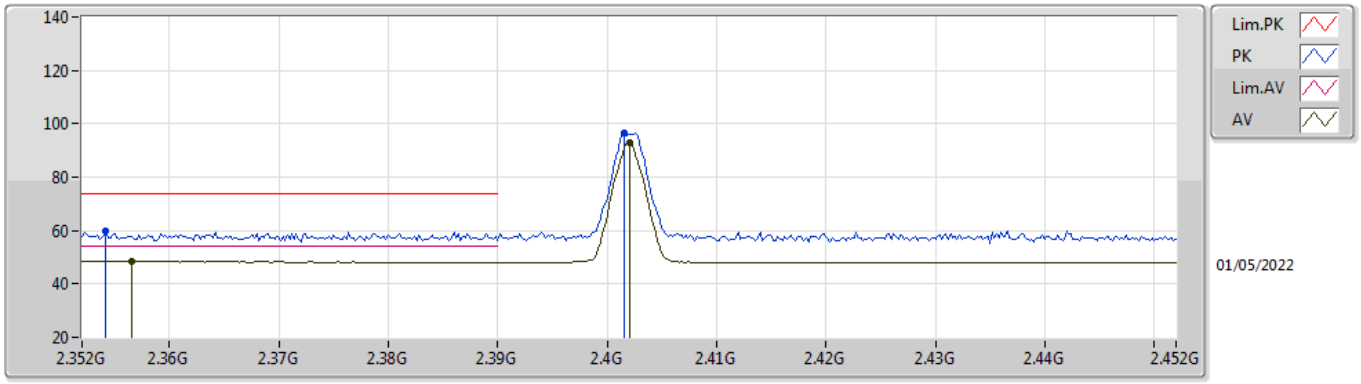
2480MHz_TX



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	4.95894G	30.42	54.00	-23.58	7.03	3	Horizontal	52	2.23	-	23.39	31.42	9.73	34.12
AV	7.43974G	36.97	54.00	-17.03	13.09	3	Horizontal	0	1.97	-	23.88	36.28	11.30	34.49
PK	4.9606G	45.28	74.00	-28.72	7.03	3	Horizontal	52	2.23	-	38.25	31.42	9.73	34.12
PK	7.44036G	50.32	74.00	-23.68	13.09	3	Horizontal	0	1.97	-	37.23	36.28	11.30	34.49

BT-LE(2Mbps)

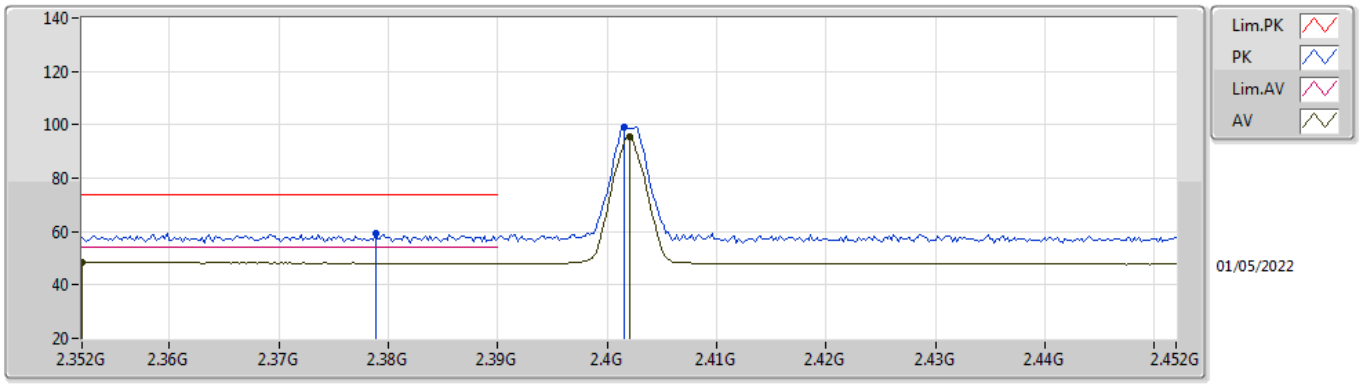
2402MHz_TX



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	2.3566G	48.36	54.00	-5.64	36.05	3	Vertical	336	1.46	-	12.31	27.79	8.26	-
AV	2.402G	92.83	Inf	-Inf	35.98	3	Vertical	336	1.46	-	56.85	27.69	8.29	-
PK	2.3542G	59.94	74.00	-14.06	36.05	3	Vertical	336	1.46	-	23.89	27.79	8.26	-
PK	2.4016G	96.34	Inf	-Inf	35.98	3	Vertical	336	1.46	-	60.36	27.69	8.29	-

BT-LE(2Mbps)

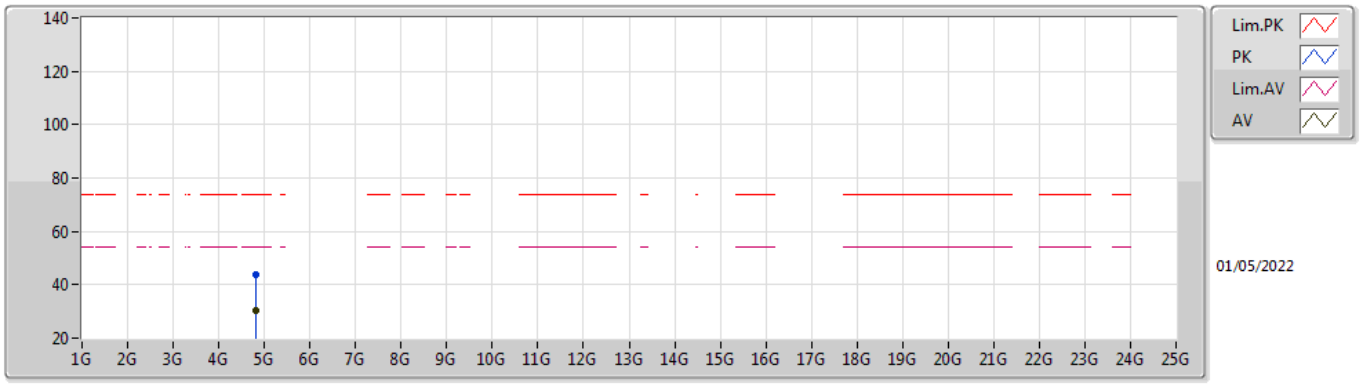
2402MHz_TX



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	2.352G	48.35	54.00	-5.65	36.05	3	Horizontal	30	1.50	-	12.30	27.80	8.25	-
AV	2.402G	95.53	Inf	-Inf	35.98	3	Horizontal	30	1.50	-	59.55	27.69	8.29	-
PK	2.3788G	59.24	74.00	-14.76	36.01	3	Horizontal	30	1.50	-	23.23	27.74	8.27	-
PK	2.4016G	99.10	Inf	-Inf	35.98	3	Horizontal	30	1.50	-	63.12	27.69	8.29	-

BT-LE(2Mbps)

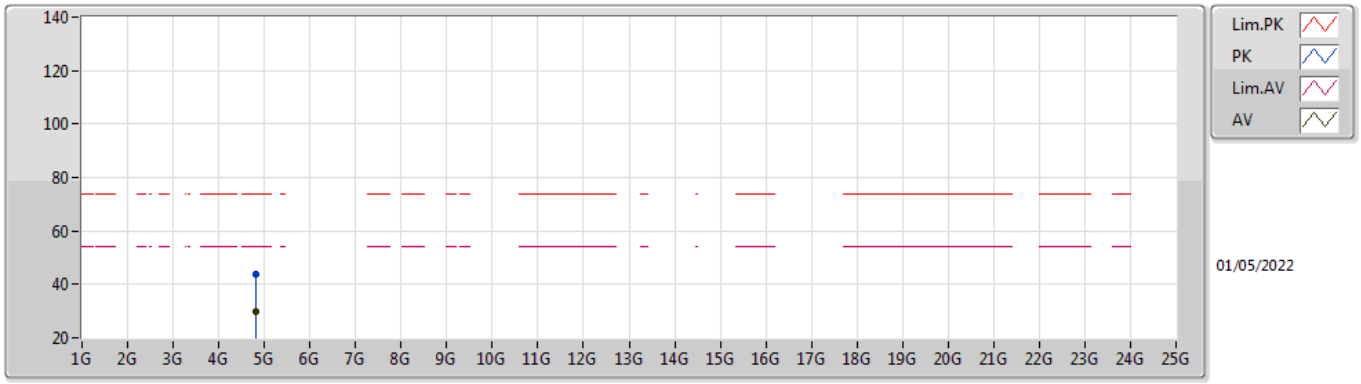
2402MHz_TX



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	4.80316G	30.20	54.00	-23.80	6.59	3	Vertical	321	1.32	-	23.61	31.11	9.67	34.19
PK	4.80786G	43.62	74.00	-30.38	6.60	3	Vertical	321	1.32	-	37.02	31.12	9.67	34.19

BT-LE(2Mbps)

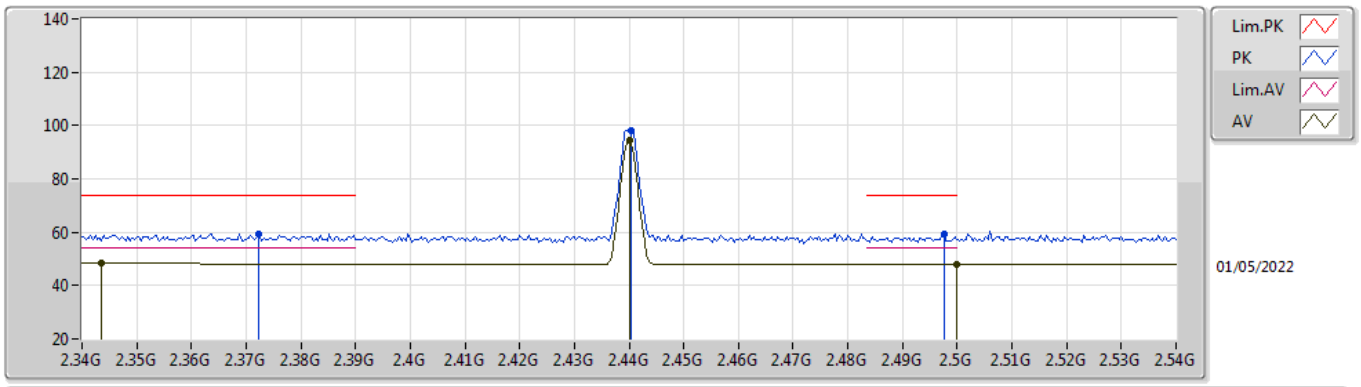
2402MHz_TX



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	4.80028G	30.01	54.00	-23.99	6.57	3	Horizontal	217	2.66	-	23.44	31.10	9.67	34.20
PK	4.8015G	43.89	74.00	-30.11	6.57	3	Horizontal	217	2.66	-	37.32	31.10	9.67	34.20

BT-LE(2Mbps)

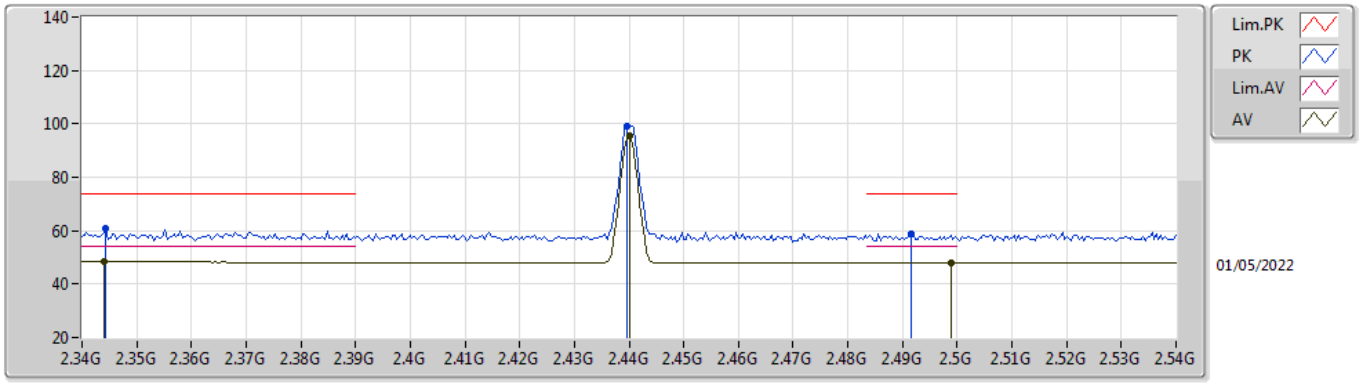
2440MHz_TX



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	2.3436G	48.34	54.00	-5.66	36.06	3	Vertical	352	1.40	-	12.28	27.81	8.25	-
AV	2.44G	94.74	Inf	-Inf	35.78	3	Vertical	352	1.40	-	58.96	27.46	8.32	-
AV	2.5G	47.84	54.00	-6.16	35.76	3	Vertical	352	1.40	-	12.08	27.40	8.36	-
PK	2.3724G	59.53	74.00	-14.47	36.03	3	Vertical	352	1.40	-	23.50	27.76	8.27	-
PK	2.4404G	98.24	Inf	-Inf	35.78	3	Vertical	352	1.40	-	62.46	27.46	8.32	-
PK	2.4976G	59.20	74.00	-14.80	35.75	3	Vertical	352	1.40	-	23.45	27.40	8.35	-

BT-LE(2Mbps)

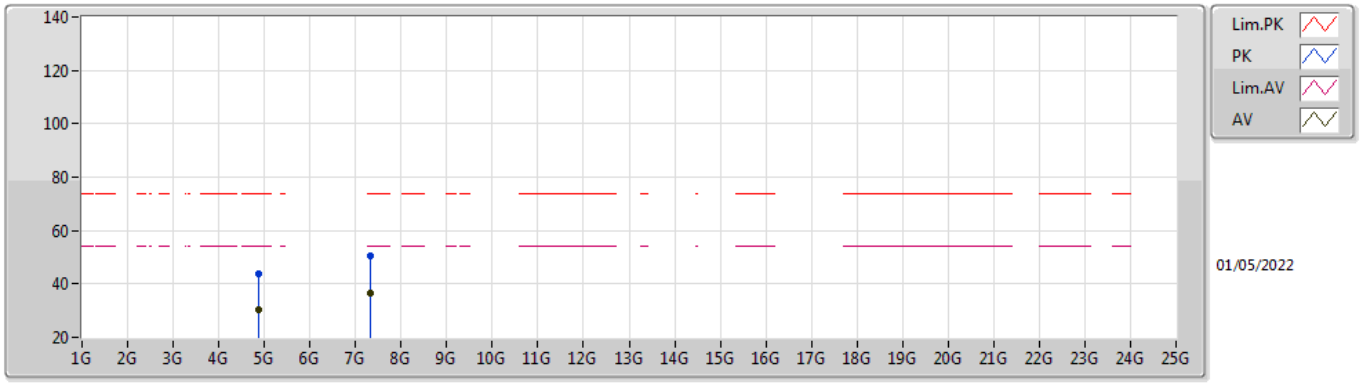
2440MHz_TX



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	2.344G	48.43	54.00	-5.57	36.06	3	Horizontal	48	2.07	-	12.37	27.81	8.25	-
AV	2.44G	95.70	Inf	-Inf	35.78	3	Horizontal	48	2.07	-	59.92	27.46	8.32	-
AV	2.4988G	47.83	54.00	-6.17	35.75	3	Horizontal	48	2.07	-	12.08	27.40	8.35	-
PK	2.3444G	60.73	74.00	-13.27	36.06	3	Horizontal	48	2.07	-	24.67	27.81	8.25	-
PK	2.4396G	99.23	Inf	-Inf	35.78	3	Horizontal	48	2.07	-	63.45	27.46	8.32	-
PK	2.4916G	58.59	74.00	-15.41	35.75	3	Horizontal	48	2.07	-	22.84	27.40	8.35	-

BT-LE(2Mbps)

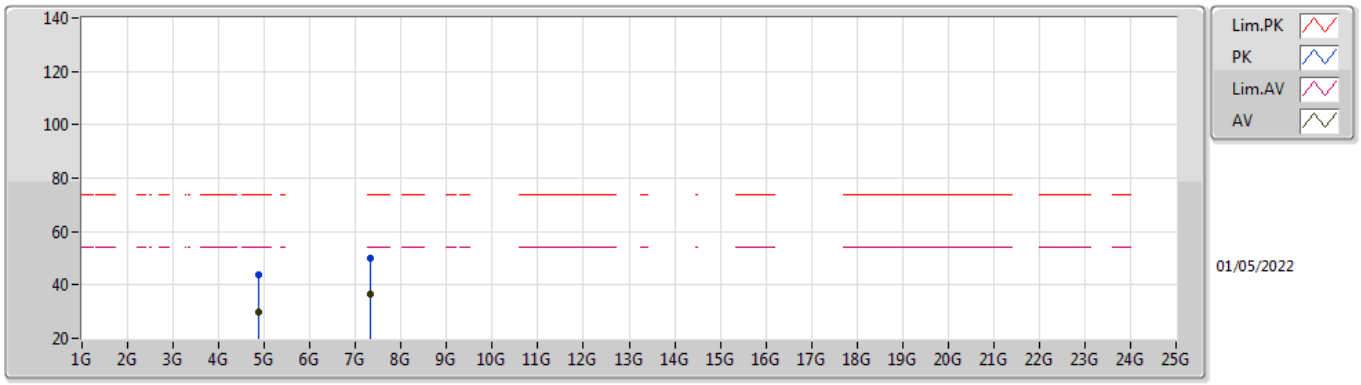
2440MHz_TX



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	4.8809G	30.59	54.00	-23.41	6.74	3	Vertical	290	1.50	-	23.85	31.20	9.70	34.16
AV	7.32224G	36.38	54.00	-17.62	13.18	3	Vertical	157	1.50	-	23.20	36.36	11.32	34.50
PK	4.87692G	43.64	74.00	-30.36	6.74	3	Vertical	290	1.50	-	36.90	31.20	9.70	34.16
PK	7.3158G	50.46	74.00	-23.54	13.19	3	Vertical	157	1.50	-	37.27	36.37	11.32	34.50

BT-LE(2Mbps)

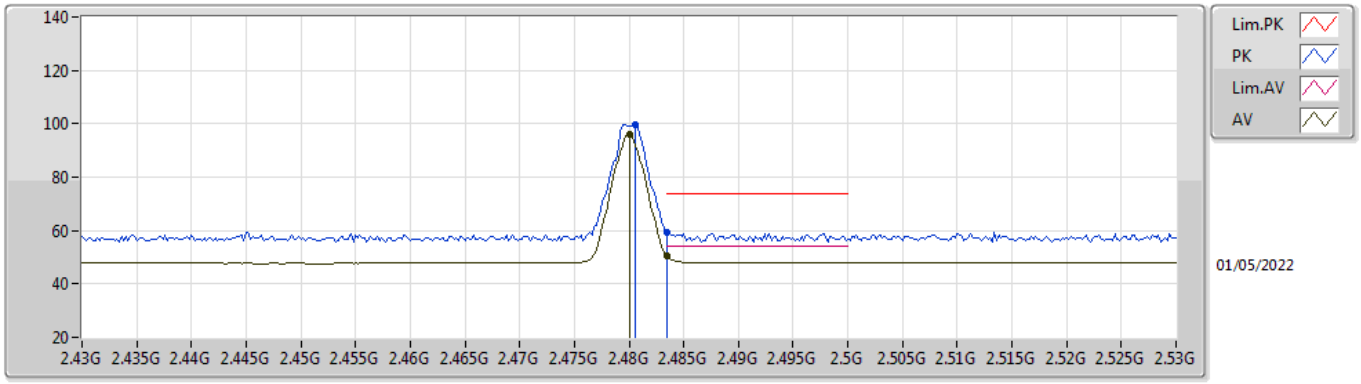
2440MHz_TX



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	4.87912G	29.98	54.00	-24.02	6.74	3	Horizontal	344	2.82	-	23.24	31.20	9.70	34.16
AV	7.31658G	36.40	54.00	-17.60	13.19	3	Horizontal	317	1.50	-	23.21	36.37	11.32	34.50
PK	4.88204G	43.94	74.00	-30.06	6.74	3	Horizontal	344	2.82	-	37.20	31.20	9.70	34.16
PK	7.31664G	50.22	74.00	-23.78	13.19	3	Horizontal	317	1.50	-	37.03	36.37	11.32	34.50

BT-LE(2Mbps)

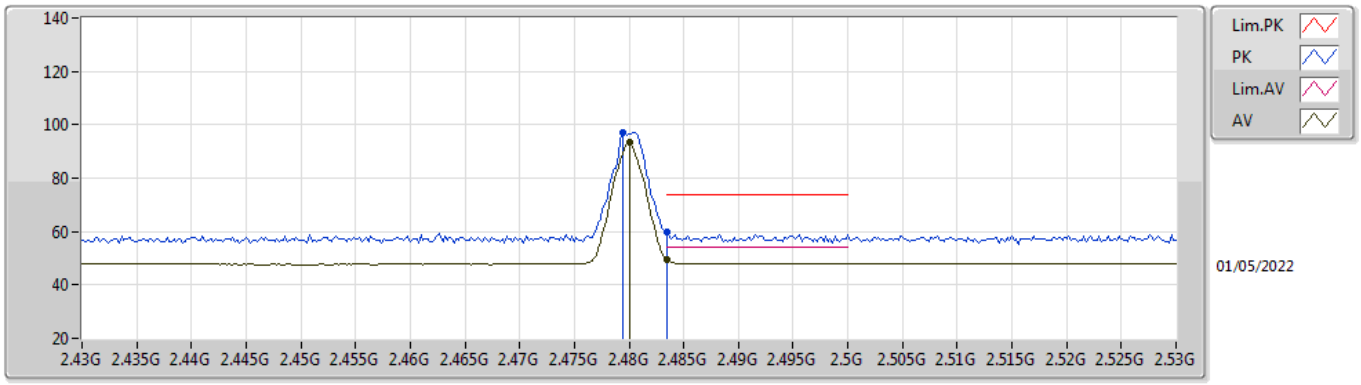
2480MHz_TX



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	2.48G	96.07	Inf	-Inf	35.74	3	Vertical	24	1.00	-	60.33	27.40	8.34	-
AV	2.4835G	50.74	54.00	-3.26	35.74	3	Vertical	24	1.00	-	15.00	27.40	8.34	-
PK	2.4806G	99.71	Inf	-Inf	35.74	3	Vertical	24	1.00	-	63.97	27.40	8.34	-
PK	2.4835G	59.52	74.00	-14.48	35.74	3	Vertical	24	1.00	-	23.78	27.40	8.34	-

BT-LE(2Mbps)

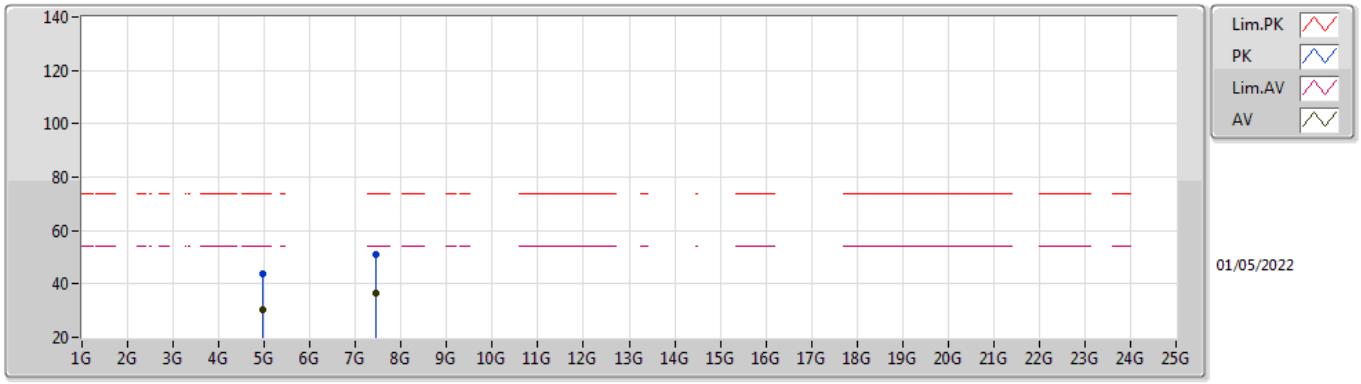
2480MHz_TX



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	2.48G	93.21	Inf	-Inf	35.74	3	Horizontal	55	2.33	-	57.47	27.40	8.34	-
AV	2.4835G	49.52	54.00	-4.48	35.74	3	Horizontal	55	2.33	-	13.78	27.40	8.34	-
PK	2.4794G	96.87	Inf	-Inf	35.74	3	Horizontal	55	2.33	-	61.13	27.40	8.34	-
PK	2.4835G	59.79	74.00	-14.21	35.74	3	Horizontal	55	2.33	-	24.05	27.40	8.34	-

BT-LE(2Mbps)

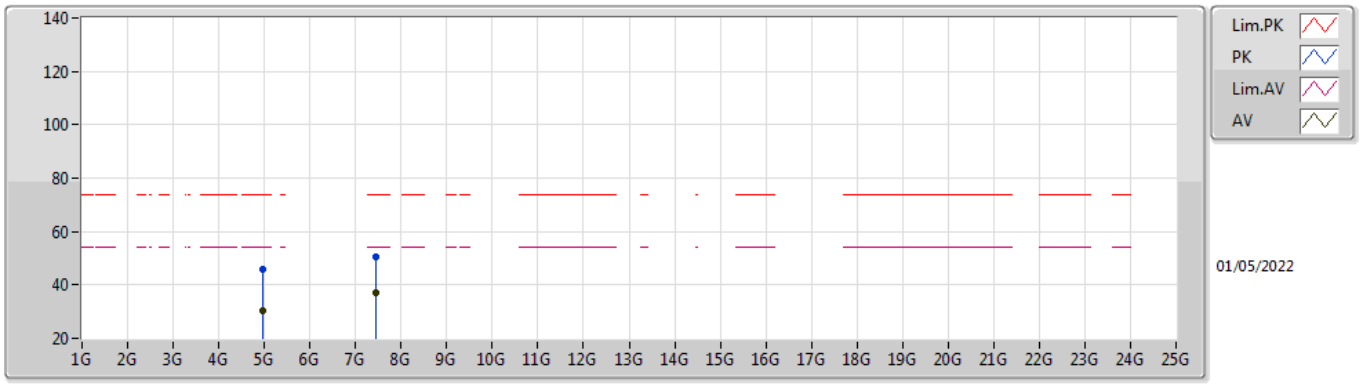
2480MHz_TX



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	4.95518G	30.16	54.00	-23.84	7.02	3	Vertical	0	3.00	-	23.14	31.41	9.73	34.12
AV	7.43844G	36.80	54.00	-17.20	13.09	3	Vertical	0	2.81	-	23.71	36.28	11.30	34.49
PK	4.95844G	43.79	74.00	-30.21	7.03	3	Vertical	0	3.00	-	36.76	31.42	9.73	34.12
PK	7.4378G	50.93	74.00	-23.07	13.09	3	Vertical	0	2.81	-	37.84	36.28	11.30	34.49

BT-LE(2Mbps)

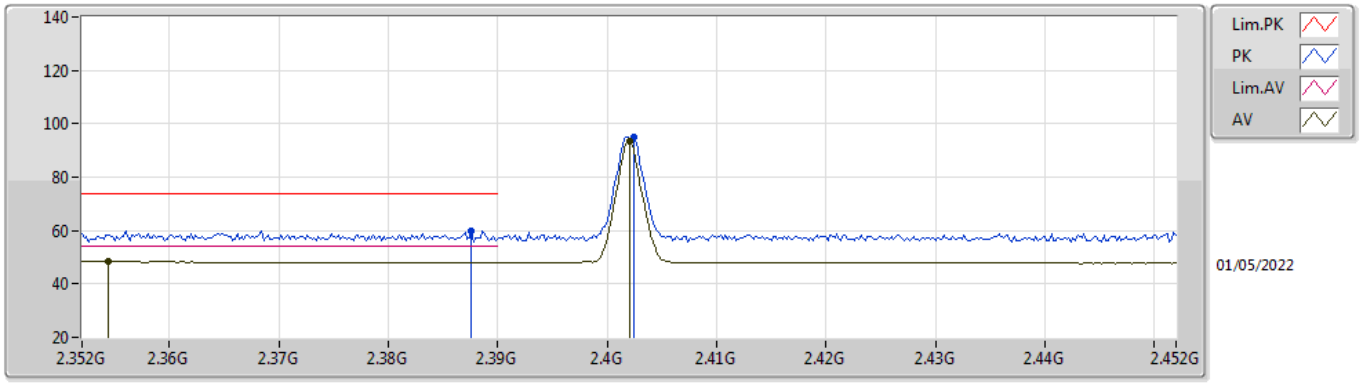
2480MHz_TX



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	4.95898G	30.23	54.00	-23.77	7.03	3	Horizontal	50	2.03	-	23.20	31.42	9.73	34.12
AV	7.43862G	36.88	54.00	-17.12	13.09	3	Horizontal	330	1.01	-	23.79	36.28	11.30	34.49
PK	4.95892G	45.71	74.00	-28.29	7.03	3	Horizontal	50	2.03	-	38.68	31.42	9.73	34.12
PK	7.4382G	50.64	74.00	-23.36	13.09	3	Horizontal	330	1.01	-	37.55	36.28	11.30	34.49

BT-LE(125kbps)

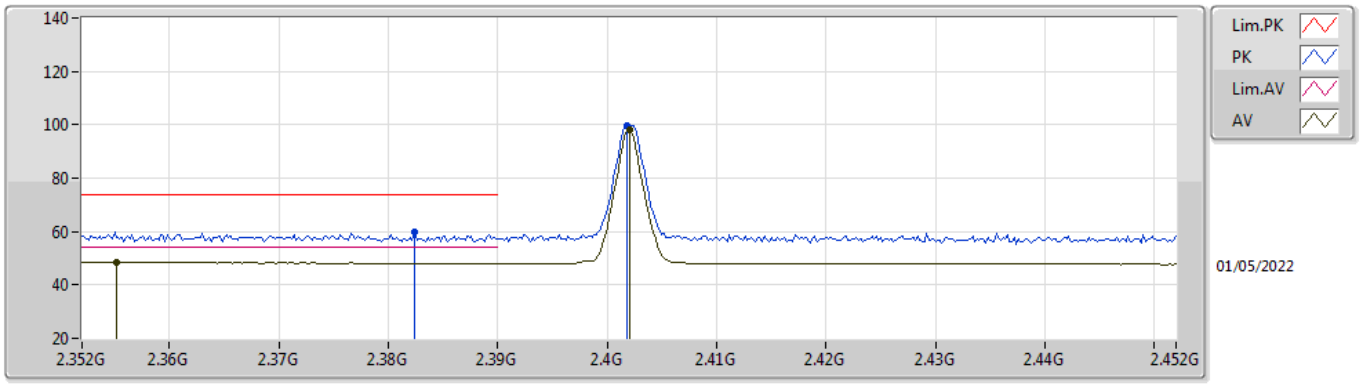
2402MHz_TX



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	2.3544G	48.25	54.00	-5.75	36.05	3	Vertical	336	1.46	-	12.20	27.79	8.26	-
AV	2.402G	93.20	Inf	-Inf	35.98	3	Vertical	336	1.46	-	57.22	27.69	8.29	-
PK	2.3876G	59.98	74.00	-14.02	36.00	3	Vertical	336	1.46	-	23.98	27.72	8.28	-
PK	2.4024G	94.99	Inf	-Inf	35.98	3	Vertical	336	1.46	-	59.01	27.69	8.29	-

BT-LE(125kbps)

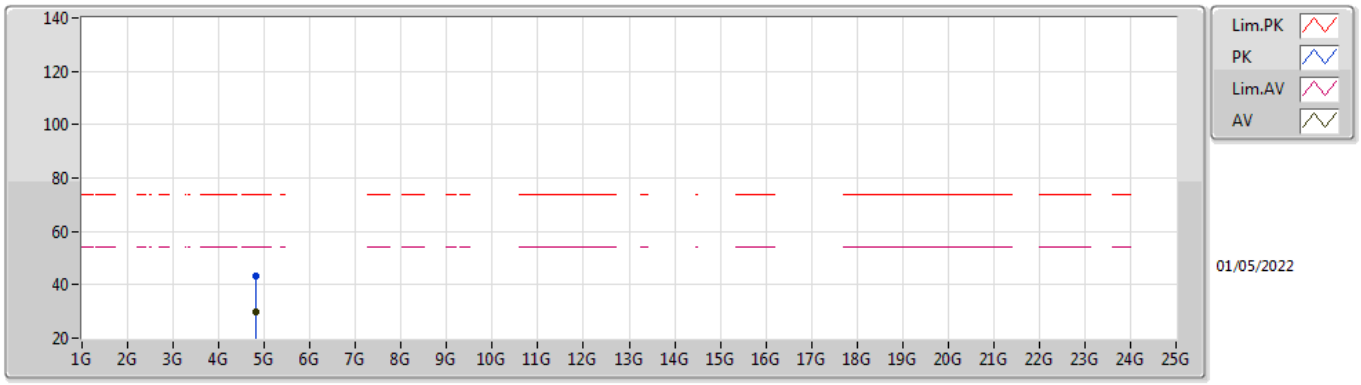
2402MHz_TX



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	2.3552G	48.36	54.00	-5.64	36.05	3	Horizontal	31	1.98	-	12.31	27.79	8.26	-
AV	2.402G	97.95	Inf	-Inf	35.98	3	Horizontal	31	1.98	-	61.97	27.69	8.29	-
PK	2.3824G	59.96	74.00	-14.04	36.02	3	Horizontal	31	1.98	-	23.94	27.74	8.28	-
PK	2.4018G	99.77	Inf	-Inf	35.98	3	Horizontal	31	1.98	-	63.79	27.69	8.29	-

BT-LE(125kbps)

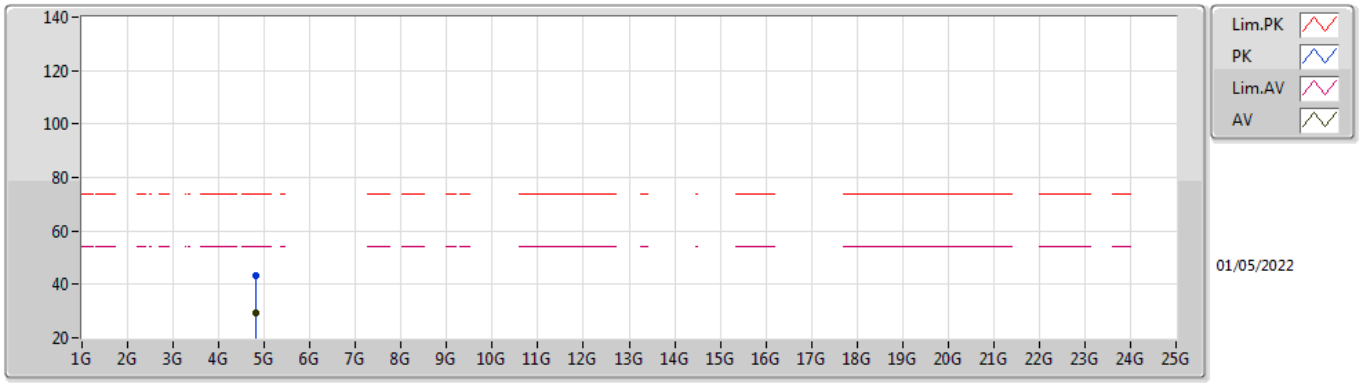
2402MHz_TX



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	4.80365G	29.96	54.00	-24.04	6.59	3	Vertical	52	1.50	-	23.37	31.11	9.67	34.19
PK	4.80455G	43.35	74.00	-30.65	6.59	3	Vertical	52	1.50	-	36.76	31.11	9.67	34.19

BT-LE(125kbps)

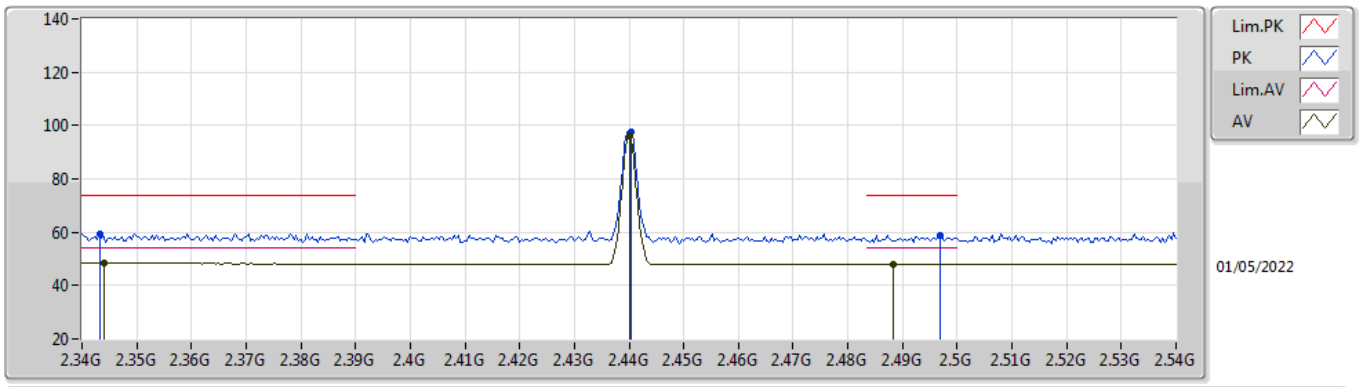
2402MHz_TX



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	29.49	54.00	-24.51	6.59	3	Horizontal	209	1.61	-	22.90	31.11	9.67	34.19
PK	4.8039G	43.23	74.00	-30.77	6.59	3	Horizontal	209	1.61	-	36.64	31.11	9.67	34.19

BT-LE(125kbps)

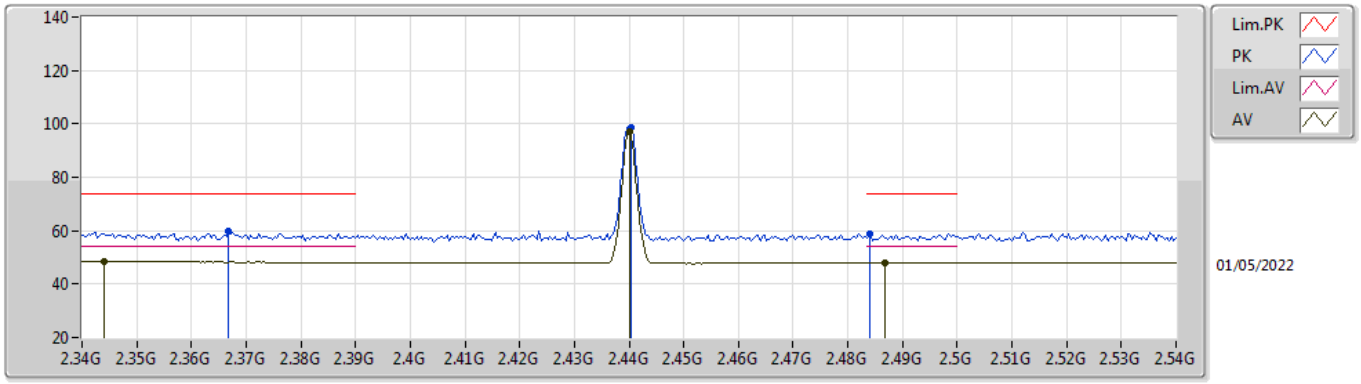
2440MHz_TX



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	2.344G	48.42	54.00	-5.58	36.06	3	Vertical	351	1.41	-	12.36	27.81	8.25	-
AV	2.44G	95.94	Inf	-Inf	35.78	3	Vertical	351	1.41	-	60.16	27.46	8.32	-
AV	2.4884G	47.96	54.00	-6.04	35.75	3	Vertical	351	1.41	-	12.21	27.40	8.35	-
PK	2.3432G	59.49	74.00	-14.51	36.06	3	Vertical	351	1.41	-	23.43	27.81	8.25	-
PK	2.4404G	97.69	Inf	-Inf	35.78	3	Vertical	351	1.41	-	61.91	27.46	8.32	-
PK	2.4968G	58.83	74.00	-15.17	35.75	3	Vertical	351	1.41	-	23.08	27.40	8.35	-

BT-LE(125kbps)

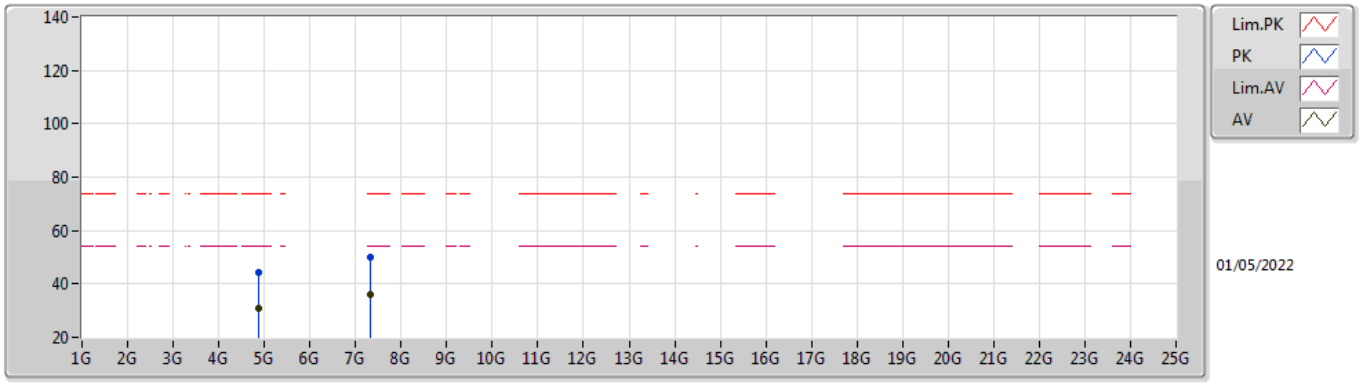
2440MHz_TX



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	2.344G	48.42	54.00	-5.58	36.06	3	Horizontal	55	1.92	-	12.36	27.81	8.25	-
AV	2.44G	96.90	Inf	-Inf	35.78	3	Horizontal	55	1.92	-	61.12	27.46	8.32	-
AV	2.4868G	47.86	54.00	-6.14	35.75	3	Horizontal	55	1.92	-	12.11	27.40	8.35	-
PK	2.3668G	59.71	74.00	-14.29	36.04	3	Horizontal	55	1.92	-	23.67	27.77	8.27	-
PK	2.4404G	98.66	Inf	-Inf	35.78	3	Horizontal	55	1.92	-	62.88	27.46	8.32	-
PK	2.484G	58.77	74.00	-15.23	35.74	3	Horizontal	55	1.92	-	23.03	27.40	8.34	-

BT-LE(125kbps)

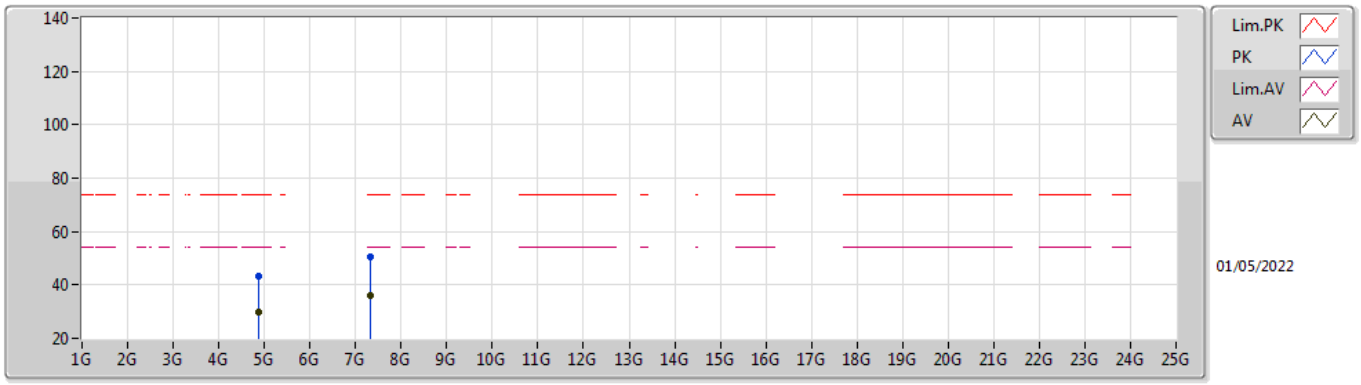
2440MHz_TX



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	4.8804G	30.93	54.00	-23.07	6.74	3	Vertical	287	1.50	-	24.19	31.20	9.70	34.16
AV	7.32046G	36.28	54.00	-17.72	13.18	3	Vertical	118	2.91	-	23.10	36.36	11.32	34.50
PK	4.88035G	44.07	74.00	-29.93	6.74	3	Vertical	287	1.50	-	37.33	31.20	9.70	34.16
PK	7.32088G	49.98	74.00	-24.02	13.18	3	Vertical	118	2.91	-	36.80	36.36	11.32	34.50

BT-LE(125kbps)

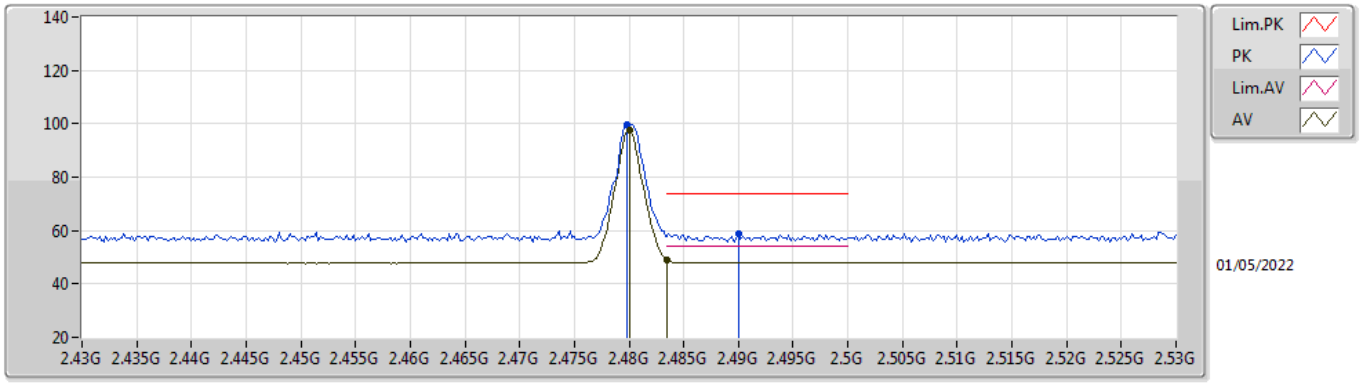
2440MHz_TX



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	4.88042G	29.97	54.00	-24.03	6.74	3	Horizontal	204	1.49	-	23.23	31.20	9.70	34.16
AV	7.31927G	36.23	54.00	-17.77	13.18	3	Horizontal	32	1.50	-	23.05	36.36	11.32	34.50
PK	4.88032G	43.52	74.00	-30.48	6.74	3	Horizontal	204	1.49	-	36.78	31.20	9.70	34.16
PK	7.32084G	50.28	74.00	-23.72	13.18	3	Horizontal	32	1.50	-	37.10	36.36	11.32	34.50

BT-LE(125kbps)

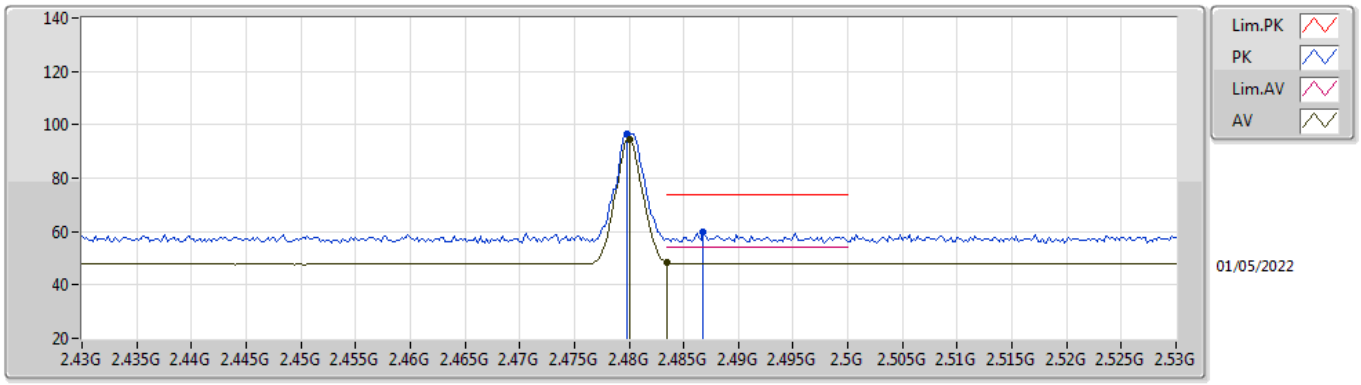
2480MHz_TX



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	2.48G	97.59	Inf	-Inf	35.74	3	Vertical	23	1.00	-	61.85	27.40	8.34	-
AV	2.4835G	49.03	54.00	-4.97	35.74	3	Vertical	23	1.00	-	13.29	27.40	8.34	-
PK	2.4798G	99.40	Inf	-Inf	35.74	3	Vertical	23	1.00	-	63.66	27.40	8.34	-
PK	2.49G	58.67	74.00	-15.33	35.75	3	Vertical	23	1.00	-	22.92	27.40	8.35	-

BT-LE(125kbps)

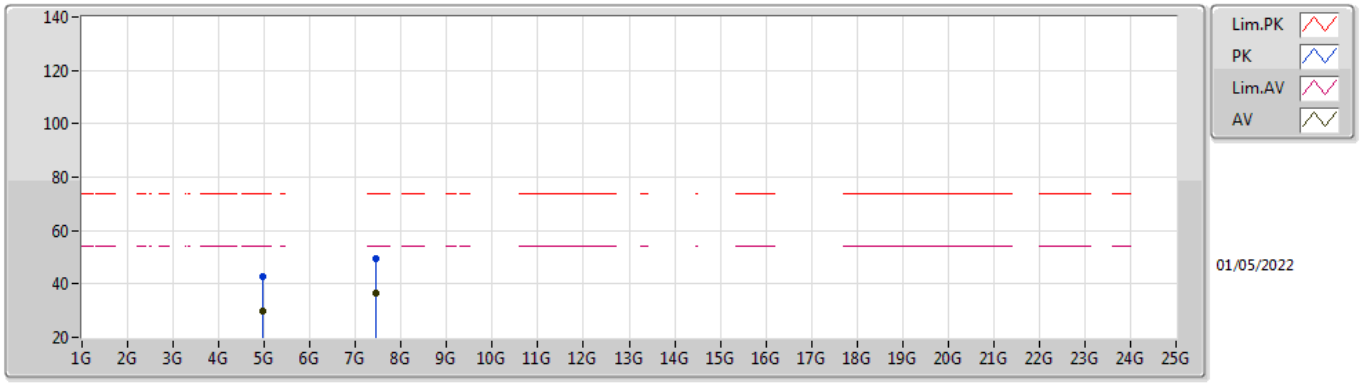
2480MHz_TX



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	2.48G	94.66	Inf	-Inf	35.74	3	Horizontal	55	2.33	-	58.92	27.40	8.34	-
AV	2.4835G	48.43	54.00	-5.57	35.74	3	Horizontal	55	2.33	-	12.69	27.40	8.34	-
PK	2.4798G	96.47	Inf	-Inf	35.74	3	Horizontal	55	2.33	-	60.73	27.40	8.34	-
PK	2.4868G	59.69	74.00	-14.31	35.75	3	Horizontal	55	2.33	-	23.94	27.40	8.35	-

BT-LE(125kbps)

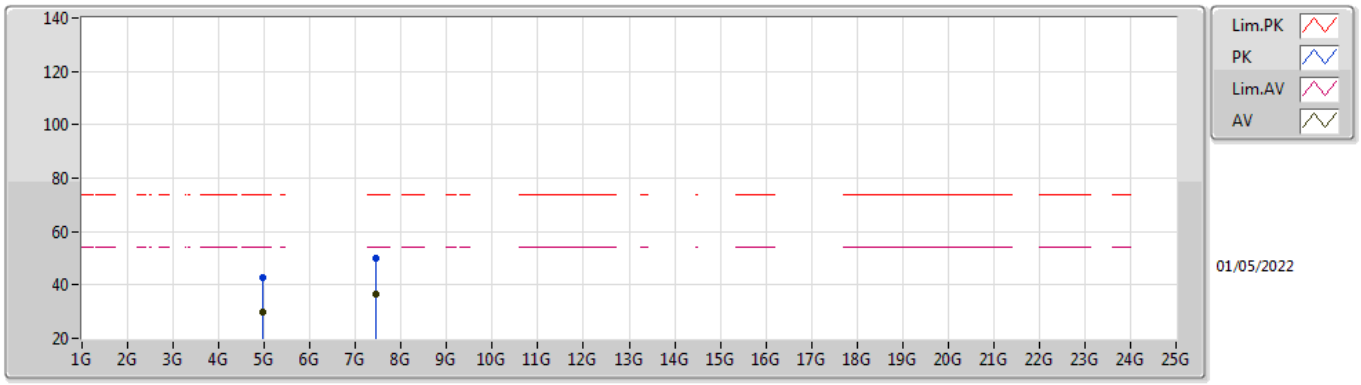
2480MHz_TX



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	4.96083G	29.71	54.00	-24.29	7.03	3	Vertical	214	1.15	-	22.68	31.42	9.73	34.12
AV	7.44029G	36.58	54.00	-17.42	13.09	3	Vertical	169	2.46	-	23.49	36.28	11.30	34.49
PK	4.96001G	42.96	74.00	-31.04	7.03	3	Vertical	214	1.15	-	35.93	31.42	9.73	34.12
PK	7.44074G	49.37	74.00	-24.63	13.09	3	Vertical	169	2.46	-	36.28	36.28	11.30	34.49

BT-LE(125kbps)

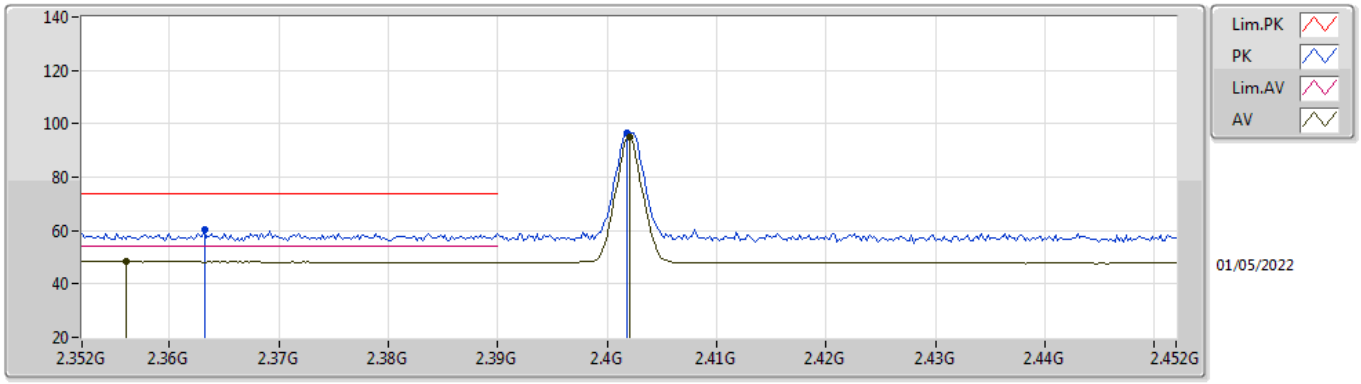
2480MHz_TX



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	4.95888G	29.71	54.00	-24.29	7.03	3	Horizontal	210	1.33	-	22.68	31.42	9.73	34.12
AV	7.43858G	36.58	54.00	-17.42	13.09	3	Horizontal	335	1.30	-	23.49	36.28	11.30	34.49
PK	4.95947G	42.92	74.00	-31.08	7.03	3	Horizontal	210	1.33	-	35.89	31.42	9.73	34.12
PK	7.44002G	50.08	74.00	-23.92	13.09	3	Horizontal	335	1.30	-	36.99	36.28	11.30	34.49

BT-LE(500kbps)

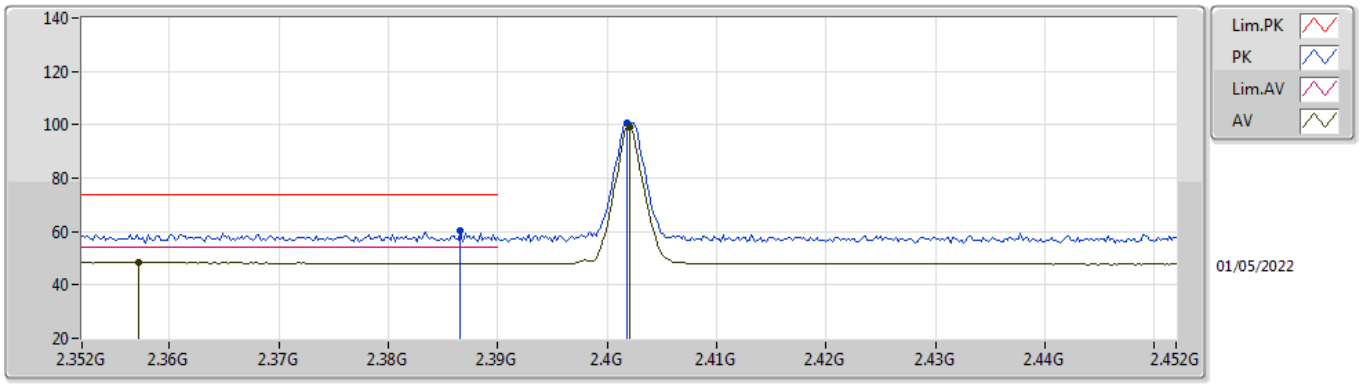
2402MHz_TX



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	2.356G	48.33	54.00	-5.67	36.05	3	Vertical	337	1.46	-	12.28	27.79	8.26	-
AV	2.402G	94.89	Inf	-Inf	35.98	3	Vertical	337	1.46	-	58.91	27.69	8.29	-
PK	2.3632G	60.34	74.00	-13.66	36.03	3	Vertical	337	1.46	-	24.31	27.77	8.26	-
PK	2.4018G	96.48	Inf	-Inf	35.98	3	Vertical	337	1.46	-	60.50	27.69	8.29	-

BT-LE(500kbps)

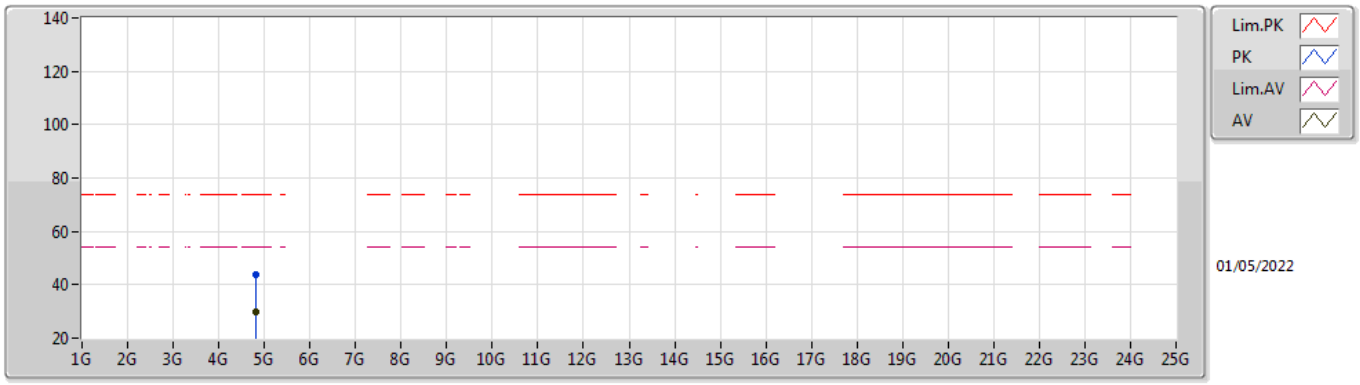
2402MHz_TX



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	2.3572G	48.34	54.00	-5.66	36.05	3	Horizontal	31	1.96	-	12.29	27.79	8.26	-
AV	2.402G	99.18	Inf	-Inf	35.98	3	Horizontal	31	1.96	-	63.20	27.69	8.29	-
PK	2.3866G	60.23	74.00	-13.77	36.01	3	Horizontal	31	1.96	-	24.22	27.73	8.28	-
PK	2.4018G	100.83	Inf	-Inf	35.98	3	Horizontal	31	1.96	-	64.85	27.69	8.29	-

BT-LE(500kbps)

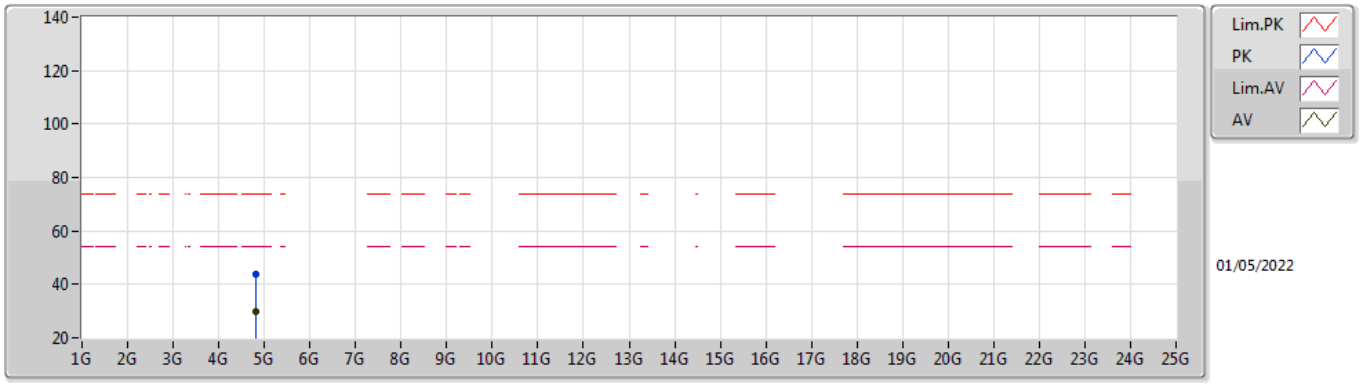
2402MHz_TX



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	4.80425G	30.01	54.00	-23.99	6.59	3	Vertical	324	1.01	-	23.42	31.11	9.67	34.19
PK	4.8038G	43.56	74.00	-30.44	6.59	3	Vertical	324	1.01	-	36.97	31.11	9.67	34.19

BT-LE(500kbps)

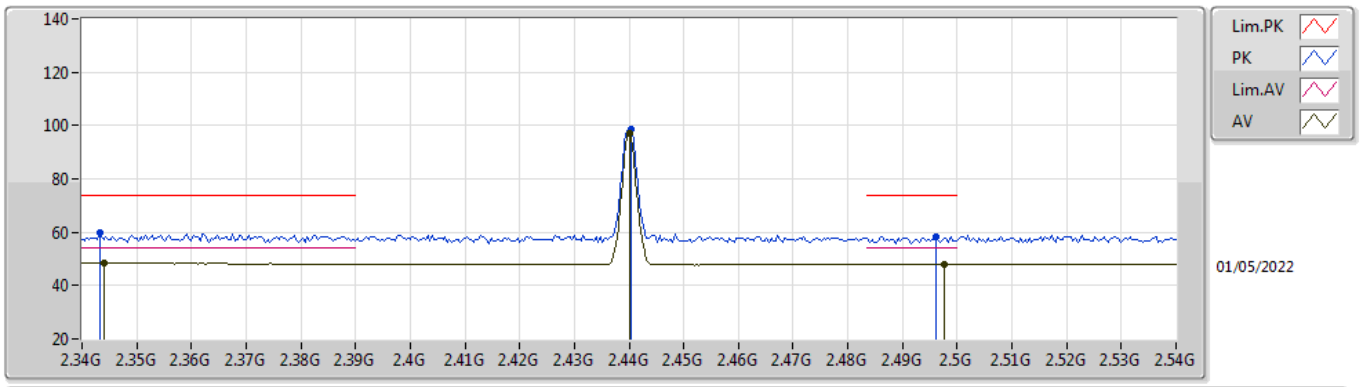
2402MHz_TX



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	4.80358G	29.82	54.00	-24.18	6.59	3	Horizontal	5	2.47	-	23.23	31.11	9.67	34.19
PK	4.80395G	43.76	74.00	-30.24	6.59	3	Horizontal	5	2.47	-	37.17	31.11	9.67	34.19

BT-LE(500kbps)

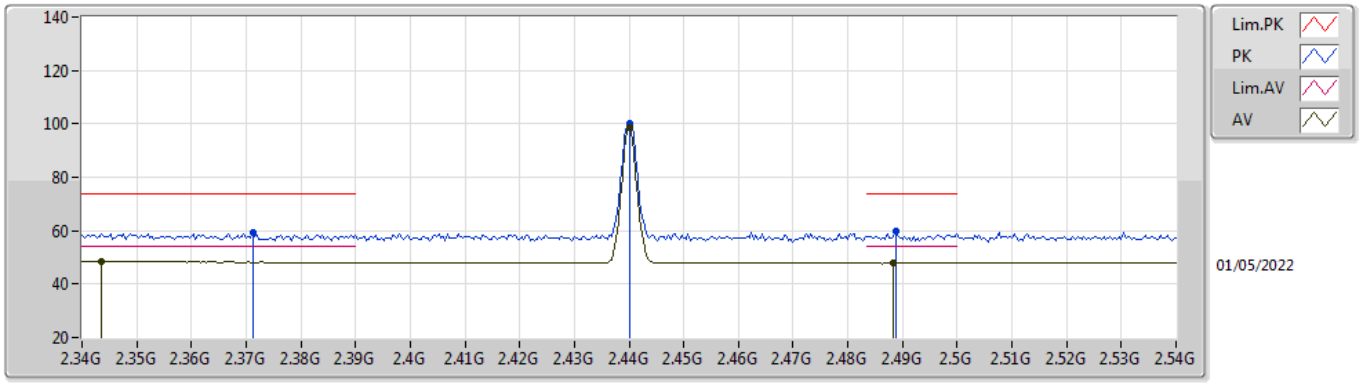
2440MHz_TX



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	2.344G	48.44	54.00	-5.56	36.06	3	Vertical	352	1.40	-	12.38	27.81	8.25	-
AV	2.44G	96.92	Inf	-Inf	35.78	3	Vertical	352	1.40	-	61.14	27.46	8.32	-
AV	2.4976G	47.88	54.00	-6.12	35.75	3	Vertical	352	1.40	-	12.13	27.40	8.35	-
PK	2.3432G	59.63	74.00	-14.37	36.06	3	Vertical	352	1.40	-	23.57	27.81	8.25	-
PK	2.4404G	98.44	Inf	-Inf	35.78	3	Vertical	352	1.40	-	62.66	27.46	8.32	-
PK	2.496G	58.47	74.00	-15.53	35.75	3	Vertical	352	1.40	-	22.72	27.40	8.35	-

BT-LE(500kbps)

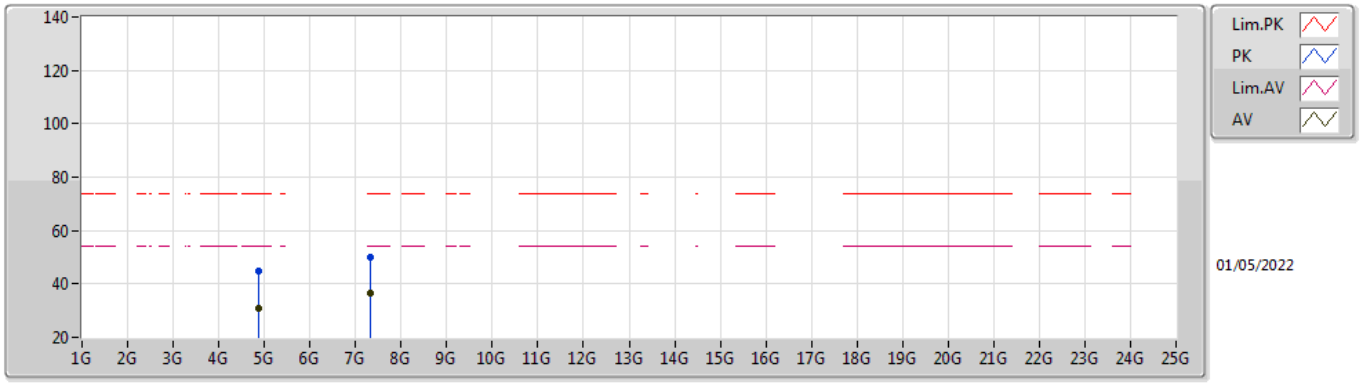
2440MHz_TX



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	2.3436G	48.48	54.00	-5.52	36.06	3	Horizontal	53	2.09	-	12.42	27.81	8.25	-
AV	2.44G	98.38	Inf	-Inf	35.78	3	Horizontal	53	2.09	-	62.60	27.46	8.32	-
AV	2.4884G	47.86	54.00	-6.14	35.75	3	Horizontal	53	2.09	-	12.11	27.40	8.35	-
PK	2.3712G	59.07	74.00	-14.93	36.03	3	Horizontal	53	2.09	-	23.04	27.76	8.27	-
PK	2.44G	99.96	Inf	-Inf	35.78	3	Horizontal	53	2.09	-	64.18	27.46	8.32	-
PK	2.4888G	60.06	74.00	-13.94	35.75	3	Horizontal	53	2.09	-	24.31	27.40	8.35	-

BT-LE(500kbps)

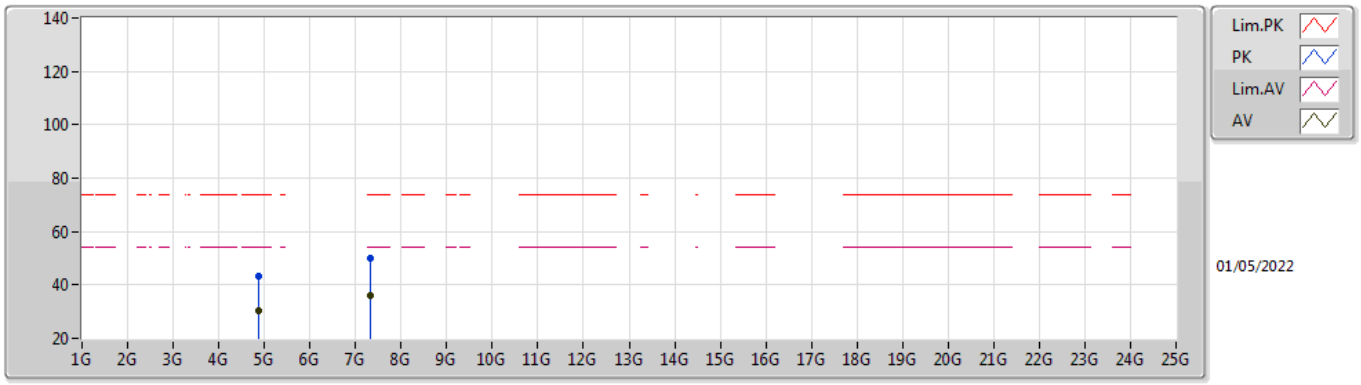
2440MHz_TX



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	4.88034G	30.94	54.00	-23.06	6.74	3	Vertical	287	1.50	-	24.20	31.20	9.70	34.16
AV	7.31915G	36.40	54.00	-17.60	13.18	3	Vertical	15	2.04	-	23.22	36.36	11.32	34.50
PK	4.87956G	44.65	74.00	-29.35	6.74	3	Vertical	287	1.50	-	37.91	31.20	9.70	34.16
PK	7.32013G	49.76	74.00	-24.24	13.18	3	Vertical	15	2.04	-	36.58	36.36	11.32	34.50

BT-LE(500kbps)

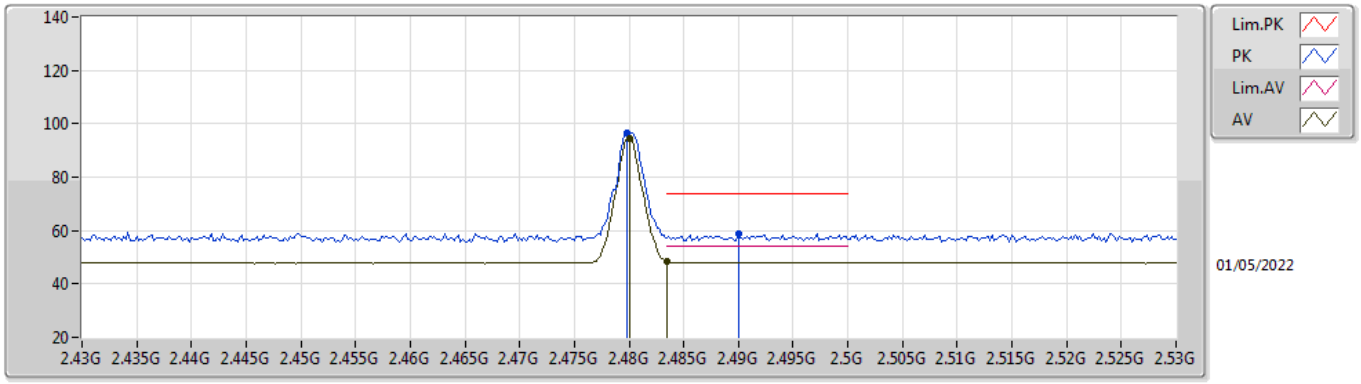
2440MHz_TX



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	4.88042G	30.09	54.00	-23.91	6.74	3	Horizontal	136	1.50	-	23.35	31.20	9.70	34.16
AV	7.32065G	36.29	54.00	-17.71	13.18	3	Horizontal	122	1.43	-	23.11	36.36	11.32	34.50
PK	4.88048G	43.36	74.00	-30.64	6.74	3	Horizontal	136	1.50	-	36.62	31.20	9.70	34.16
PK	7.32073G	50.01	74.00	-23.99	13.18	3	Horizontal	122	1.43	-	36.83	36.36	11.32	34.50

BT-LE(500kbps)

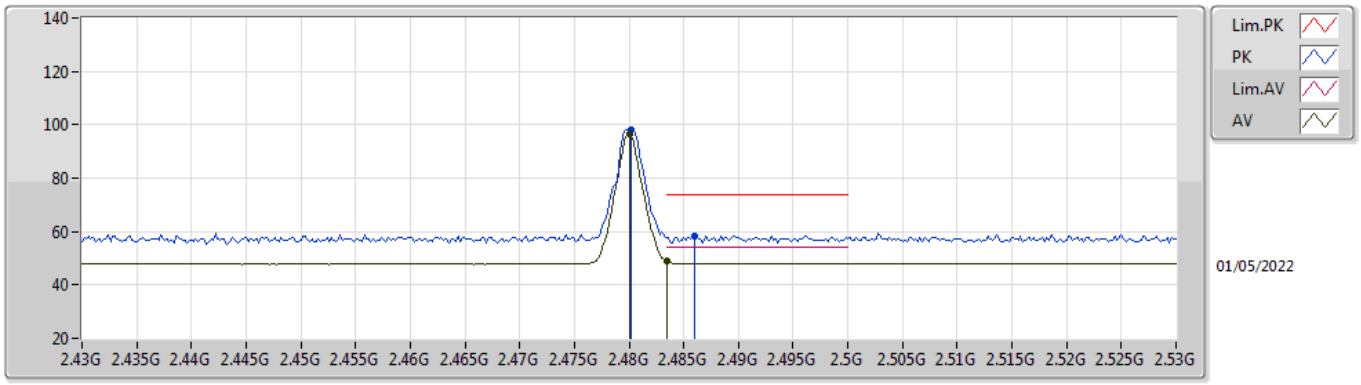
2480MHz_TX



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	2.48G	94.74	Inf	-Inf	35.74	3	Vertical	53	2.09	-	59.00	27.40	8.34	-
AV	2.4835G	48.43	54.00	-5.57	35.74	3	Vertical	53	2.09	-	12.69	27.40	8.34	-
PK	2.4798G	96.30	Inf	-Inf	35.74	3	Vertical	53	2.09	-	60.56	27.40	8.34	-
PK	2.49G	58.88	74.00	-15.12	35.75	3	Vertical	53	2.09	-	23.13	27.40	8.35	-

BT-LE(500kbps)

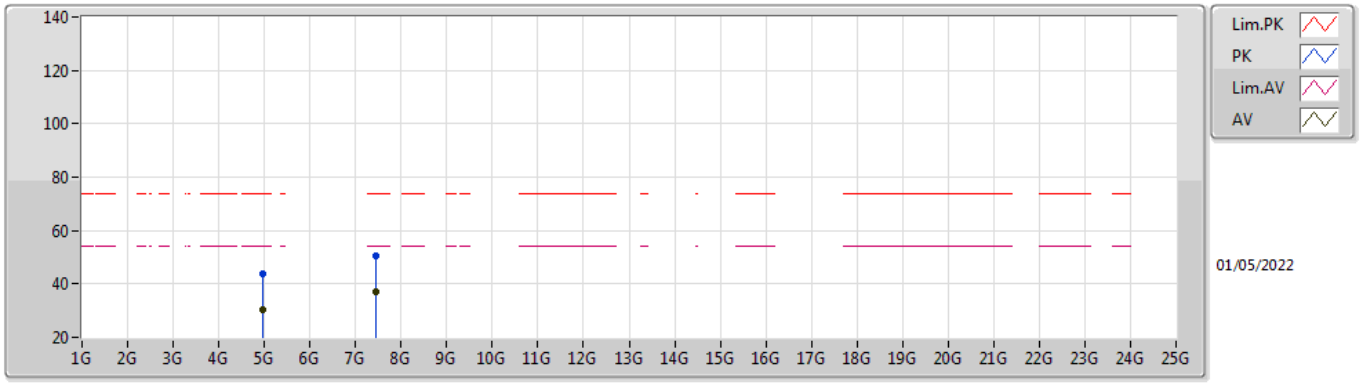
2480MHz_TX



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	2.48G	96.44	Inf	-Inf	35.74	3	Horizontal	20	2.89	-	60.70	27.40	8.34	-
AV	2.4835G	48.77	54.00	-5.23	35.74	3	Horizontal	20	2.89	-	13.03	27.40	8.34	-
PK	2.4802G	98.04	Inf	-Inf	35.74	3	Horizontal	20	2.89	-	62.30	27.40	8.34	-
PK	2.486G	58.51	74.00	-15.49	35.75	3	Horizontal	20	2.89	-	22.76	27.40	8.35	-

BT-LE(500kbps)

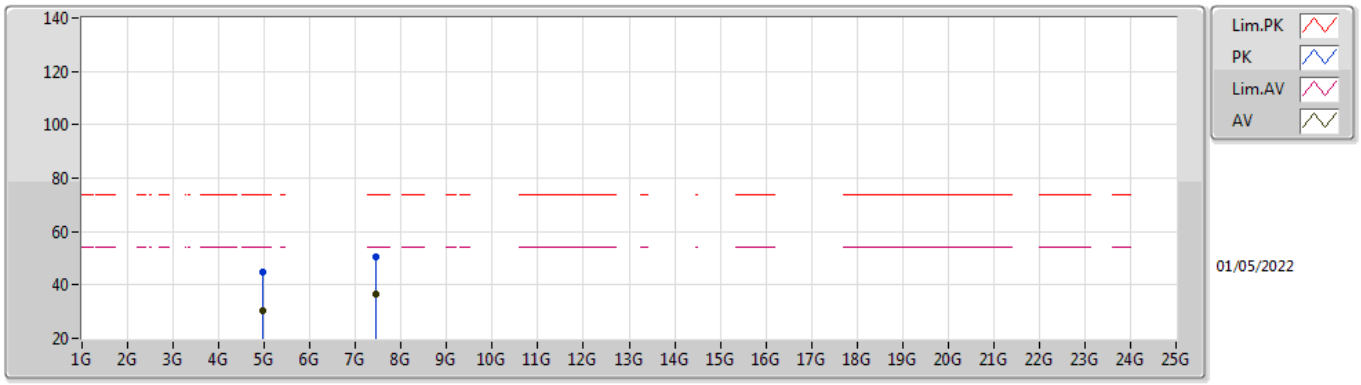
2480MHz_TX



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	4.9601G	30.11	54.00	-23.89	7.03	3	Vertical	0	2.96	-	23.08	31.42	9.73	34.12
AV	7.43936G	36.94	54.00	-17.06	13.09	3	Vertical	0	2.57	-	23.85	36.28	11.30	34.49
PK	4.96056G	43.91	74.00	-30.09	7.03	3	Vertical	0	2.96	-	36.88	31.42	9.73	34.12
PK	7.43906G	50.75	74.00	-23.25	13.09	3	Vertical	0	2.57	-	37.66	36.28	11.30	34.49

BT-LE(500kbps)

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	4.95991G	30.15	54.00	-23.85	7.03	3	Horizontal	61	1.80	-	23.12	31.42	9.73	34.12
AV	7.44022G	36.78	54.00	-17.22	13.09	3	Horizontal	342	1.00	-	23.69	36.28	11.30	34.49
PK	4.9614G	44.69	74.00	-29.31	7.03	3	Horizontal	61	1.80	-	37.66	31.42	9.73	34.12
PK	7.43867G	50.50	74.00	-23.50	13.09	3	Horizontal	342	1.00	-	37.41	36.28	11.30	34.49

Summary

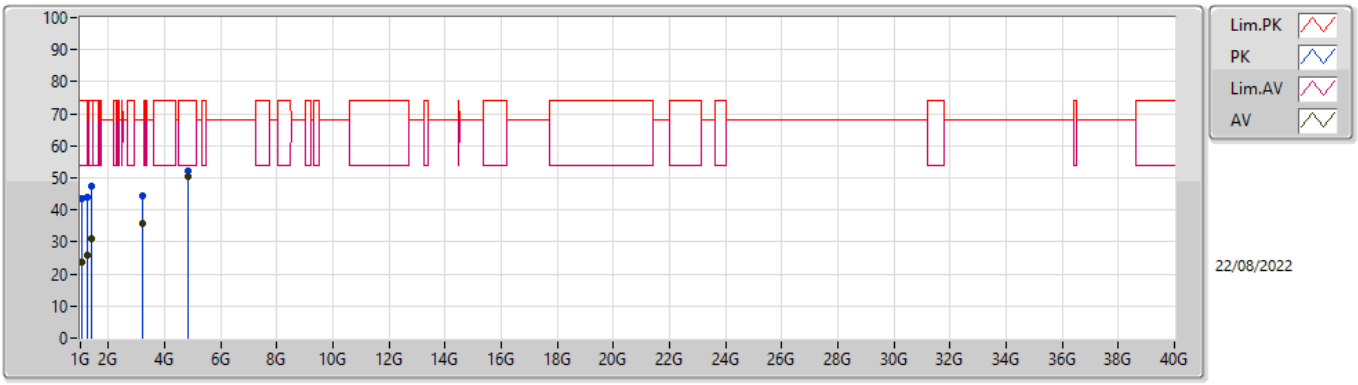
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	4.82398G	50.33	54.00	-3.67	Vertical
Mode 2	Pass	AV	4.82398G	50.47	54.00	-3.53	Vertical
Mode 3	Pass	AV	4.822G	50.67	54.00	-3.33	Vertical
Mode 4	Pass	AV	4.822G	46.36	54.00	-7.64	Vertical

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	1.056G	23.66	54.00	-30.34	3	Vertical	168	1.82	-
Mode 1	Pass	AV	1.224G	25.81	54.00	-28.19	3	Vertical	20	2.18	-
Mode 1	Pass	AV	1.406G	31.23	54.00	-22.77	3	Vertical	234	1.28	-
Mode 1	Pass	AV	3.198G	35.86	68.20	-32.34	3	Vertical	27	1.99	-
Mode 1	Pass	AV	4.82398G	50.33	54.00	-3.67	3	Vertical	140	1.22	-
Mode 1	Pass	PK	1.056G	43.62	74.00	-30.38	3	Vertical	168	1.82	-
Mode 1	Pass	PK	1.224G	44.11	74.00	-29.89	3	Vertical	20	2.18	-
Mode 1	Pass	PK	1.406G	47.60	74.00	-26.40	3	Vertical	234	1.28	-
Mode 1	Pass	PK	3.198G	44.59	68.20	-23.61	3	Vertical	27	1.99	-
Mode 1	Pass	PK	4.82398G	52.36	74.00	-21.64	3	Vertical	140	1.22	-
Mode 1	Pass	AV	1.05714G	27.33	54.00	-26.67	3	Horizontal	149	1.01	-
Mode 1	Pass	AV	1.22914G	30.93	54.00	-23.07	3	Horizontal	248	2.62	-
Mode 1	Pass	AV	1.40018G	30.97	54.00	-23.03	3	Horizontal	240	2.22	-
Mode 1	Pass	AV	1.75343G	33.10	68.20	-35.10	3	Horizontal	256	1.50	-
Mode 1	Pass	AV	4.82392G	44.65	54.00	-9.35	3	Horizontal	335	1.50	-
Mode 1	Pass	PK	1.05714G	42.41	74.00	-31.59	3	Horizontal	149	1.01	-
Mode 1	Pass	PK	1.22914G	42.48	74.00	-31.52	3	Horizontal	248	2.62	-
Mode 1	Pass	PK	1.40018G	42.66	74.00	-31.34	3	Horizontal	240	2.22	-
Mode 1	Pass	PK	1.75343G	40.21	68.20	-27.99	3	Horizontal	256	1.50	-
Mode 1	Pass	PK	4.82392G	45.70	74.00	-28.30	3	Horizontal	335	1.50	-
Mode 2	Pass	AV	1.42067G	32.21	54.00	-21.79	3	Vertical	311	2.37	-
Mode 2	Pass	AV	1.77G	30.27	68.20	-37.93	3	Vertical	58	1.81	-
Mode 2	Pass	AV	2.232G	31.85	54.00	-22.15	3	Vertical	150	1.53	-
Mode 2	Pass	AV	3.016G	34.52	68.20	-33.68	3	Vertical	348	2.04	-
Mode 2	Pass	AV	4.82398G	50.47	54.00	-3.53	3	Vertical	152	2.86	-
Mode 2	Pass	AV	5.13G	38.52	54.00	-15.48	3	Vertical	178	2.00	-
Mode 2	Pass	PK	1.42067G	51.43	74.00	-22.57	3	Vertical	311	2.37	-
Mode 2	Pass	PK	1.77G	44.07	68.20	-24.13	3	Vertical	58	1.81	-
Mode 2	Pass	PK	2.232G	50.28	74.00	-23.72	3	Vertical	150	1.53	-
Mode 2	Pass	PK	3.016G	47.61	68.20	-20.59	3	Vertical	348	2.04	-
Mode 2	Pass	PK	4.82398G	53.53	74.00	-20.47	3	Vertical	152	2.86	-
Mode 2	Pass	PK	5.13G	49.32	74.00	-24.68	3	Vertical	178	2.00	-
Mode 2	Pass	AV	1.238G	31.55	54.00	-22.45	3	Horizontal	39	2.03	-
Mode 2	Pass	AV	1.406G	31.04	54.00	-22.96	3	Horizontal	27	1.66	-
Mode 2	Pass	AV	2.232G	33.22	54.00	-20.78	3	Horizontal	107	1.81	-
Mode 2	Pass	AV	2.988G	32.91	68.20	-35.29	3	Horizontal	294	1.48	-
Mode 2	Pass	AV	3.184G	35.53	68.20	-32.67	3	Horizontal	23	1.36	-
Mode 2	Pass	AV	4.822G	47.56	54.00	-6.44	3	Horizontal	355	1.80	-
Mode 2	Pass	PK	1.238G	46.61	74.00	-27.39	3	Horizontal	39	2.03	-
Mode 2	Pass	PK	1.406G	46.65	74.00	-27.35	3	Horizontal	27	1.66	-
Mode 2	Pass	PK	2.232G	43.16	74.00	-30.84	3	Horizontal	107	1.81	-
Mode 2	Pass	PK	2.988G	45.25	68.20	-22.95	3	Horizontal	294	1.48	-
Mode 2	Pass	PK	3.184G	47.86	68.20	-20.34	3	Horizontal	23	1.36	-
Mode 2	Pass	PK	4.822G	49.03	74.00	-24.97	3	Horizontal	355	1.80	-
Mode 3	Pass	AV	1.238G	30.11	54.00	-23.89	3	Vertical	55	1.17	-
Mode 3	Pass	AV	1.406G	31.52	54.00	-22.48	3	Vertical	359	1.32	-
Mode 3	Pass	AV	1.77G	34.01	68.20	-34.19	3	Vertical	147	1.28	-
Mode 3	Pass	AV	4.822G	50.67	54.00	-3.33	3	Vertical	16	2.20	-
Mode 3	Pass	PK	1.238G	43.53	74.00	-30.47	3	Vertical	55	1.17	-
Mode 3	Pass	PK	1.406G	43.98	74.00	-30.02	3	Vertical	359	1.32	-

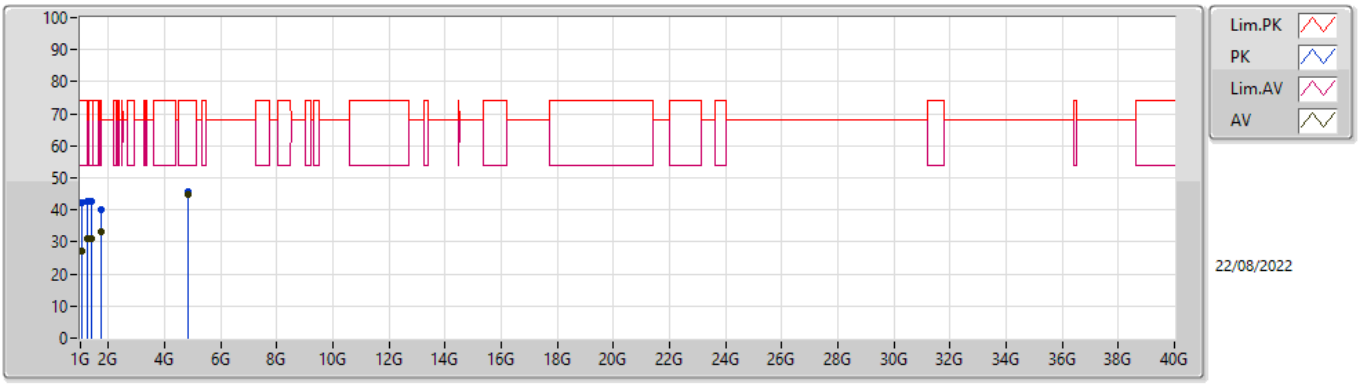
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 3	Pass	PK	1.77G	42.41	68.20	-25.79	3	Vertical	147	1.28	-
Mode 3	Pass	PK	4.822G	53.51	74.00	-20.49	3	Vertical	16	2.20	-
Mode 3	Pass	AV	1.238G	30.57	54.00	-23.43	3	Horizontal	24	1.81	-
Mode 3	Pass	AV	1.406G	31.25	54.00	-22.75	3	Horizontal	42	2.36	-
Mode 3	Pass	AV	2.358G	32.13	54.00	-21.87	3	Horizontal	209	1.96	-
Mode 3	Pass	AV	4.822G	43.83	54.00	-10.17	3	Horizontal	136	1.32	-
Mode 3	Pass	PK	1.238G	46.95	74.00	-27.05	3	Horizontal	24	1.81	-
Mode 3	Pass	PK	1.406G	43.81	74.00	-30.19	3	Horizontal	42	2.36	-
Mode 3	Pass	PK	2.358G	42.31	74.00	-31.69	3	Horizontal	209	1.96	-
Mode 3	Pass	PK	4.822G	46.00	74.00	-28.00	3	Horizontal	136	1.32	-
Mode 4	Pass	AV	1.056G	31.25	54.00	-22.75	3	Vertical	73	1.68	-
Mode 4	Pass	AV	1.238G	36.31	54.00	-17.69	3	Vertical	256	2.37	-
Mode 4	Pass	AV	1.406G	32.36	54.00	-21.64	3	Vertical	129	1.32	-
Mode 4	Pass	AV	2.582G	30.58	68.20	-37.62	3	Vertical	21	2.25	-
Mode 4	Pass	AV	4.822G	46.36	54.00	-7.64	3	Vertical	63	1.30	-
Mode 4	Pass	PK	1.056G	44.38	74.00	-29.62	3	Vertical	73	1.68	-
Mode 4	Pass	PK	1.238G	42.37	74.00	-31.63	3	Vertical	256	2.37	-
Mode 4	Pass	PK	1.406G	44.17	74.00	-29.83	3	Vertical	129	1.32	-
Mode 4	Pass	PK	2.582G	45.44	68.20	-22.76	3	Vertical	21	2.25	-
Mode 4	Pass	PK	4.822G	47.24	74.00	-26.76	3	Vertical	63	1.30	-
Mode 4	Pass	AV	1.238G	34.21	54.00	-19.79	3	Horizontal	196	2.04	-
Mode 4	Pass	AV	1.406G	32.01	54.00	-21.99	3	Horizontal	79	1.13	-
Mode 4	Pass	AV	3.002G	33.47	68.20	-34.73	3	Horizontal	57	2.36	-
Mode 4	Pass	AV	4.822G	45.25	54.00	-8.75	3	Horizontal	39	2.25	-
Mode 4	Pass	PK	1.238G	47.85	74.00	-26.15	3	Horizontal	196	2.04	-
Mode 4	Pass	PK	1.406G	43.88	74.00	-30.12	3	Horizontal	79	1.13	-
Mode 4	Pass	PK	3.002G	43.11	68.20	-25.09	3	Horizontal	57	2.36	-
Mode 4	Pass	PK	4.822G	49.03	74.00	-24.97	3	Horizontal	39	2.25	-

Radiated Emissions above 1GHz_Mode 1



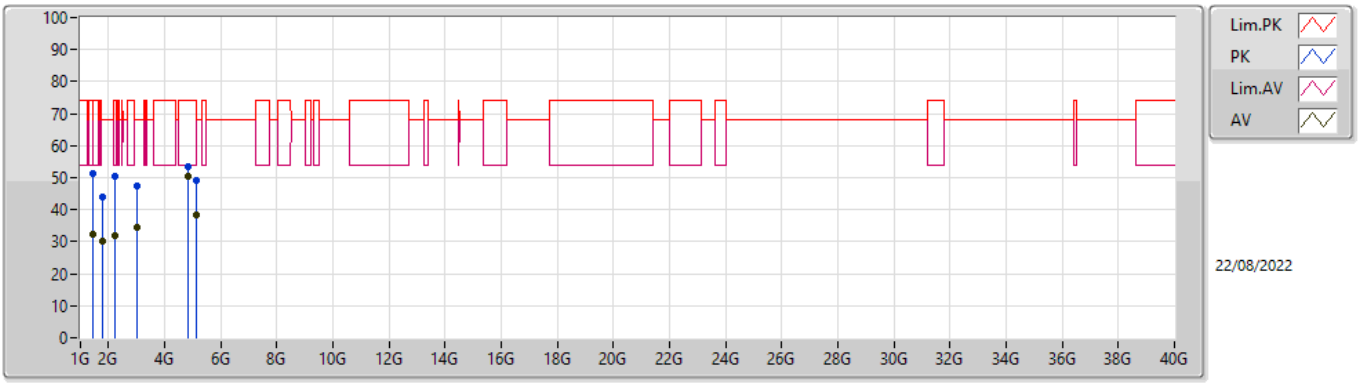
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
AV	1.056G	23.66	54.00	-30.34	-6.35	3	Vertical	168	1.82	-	30.01	25.02	3.14	34.51
AV	1.224G	25.81	54.00	-28.19	-4.74	3	Vertical	20	2.18	-	30.55	26.10	3.39	34.23
AV	1.406G	31.23	54.00	-22.77	-4.98	3	Vertical	234	1.28	-	36.21	25.30	3.65	33.93
AV	3.198G	35.86	68.20	-32.34	1.18	3	Vertical	27	1.99	-	34.68	29.80	5.55	34.17
AV	4.82398G	50.33	54.00	-3.67	5.21	3	Vertical	140	1.22	-	45.12	32.60	6.90	34.29
PK	1.056G	43.62	74.00	-30.38	-6.35	3	Vertical	168	1.82	-	49.97	25.02	3.14	34.51
PK	1.224G	44.11	74.00	-29.89	-4.74	3	Vertical	20	2.18	-	48.85	26.10	3.39	34.23
PK	1.406G	47.60	74.00	-26.40	-4.98	3	Vertical	234	1.28	-	52.58	25.30	3.65	33.93
PK	3.198G	44.59	68.20	-23.61	1.18	3	Vertical	27	1.99	-	43.41	29.80	5.55	34.17
PK	4.82398G	52.36	74.00	-21.64	5.21	3	Vertical	140	1.22	-	47.15	32.60	6.90	34.29

Radiated Emissions above 1GHz_Mode 1



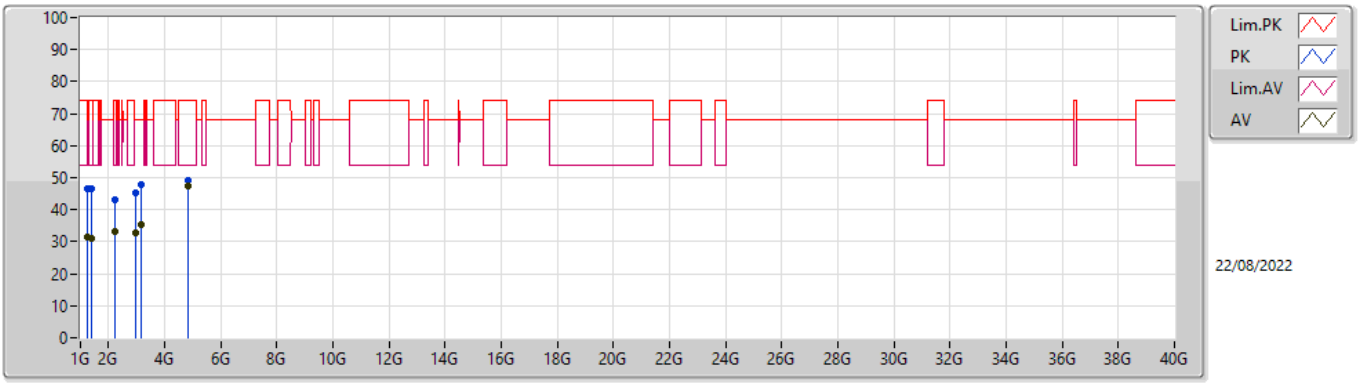
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
AV	1.05714G	27.33	54.00	-26.67	-6.33	3	Horizontal	149	1.01	-	33.66	25.03	3.15	34.51
AV	1.22914G	30.93	54.00	-23.07	-4.74	3	Horizontal	248	2.62	-	35.67	26.08	3.40	34.22
AV	1.40018G	30.97	54.00	-23.03	-5.00	3	Horizontal	240	2.22	-	35.97	25.30	3.64	33.94
AV	1.75343G	33.10	68.20	-35.10	-4.53	3	Horizontal	256	1.50	-	37.63	25.18	4.09	33.80
AV	4.82392G	44.65	54.00	-9.35	5.21	3	Horizontal	335	1.50	-	39.44	32.60	6.90	34.29
PK	1.05714G	42.41	74.00	-31.59	-6.33	3	Horizontal	149	1.01	-	48.74	25.03	3.15	34.51
PK	1.22914G	42.48	74.00	-31.52	-4.74	3	Horizontal	248	2.62	-	47.22	26.08	3.40	34.22
PK	1.40018G	42.66	74.00	-31.34	-5.00	3	Horizontal	240	2.22	-	47.66	25.30	3.64	33.94
PK	1.75343G	40.21	68.20	-27.99	-4.53	3	Horizontal	256	1.50	-	44.74	25.18	4.09	33.80
PK	4.82392G	45.70	74.00	-28.30	5.21	3	Horizontal	335	1.50	-	40.49	32.60	6.90	34.29

Radiated Emissions above 1GHz_Mode 2



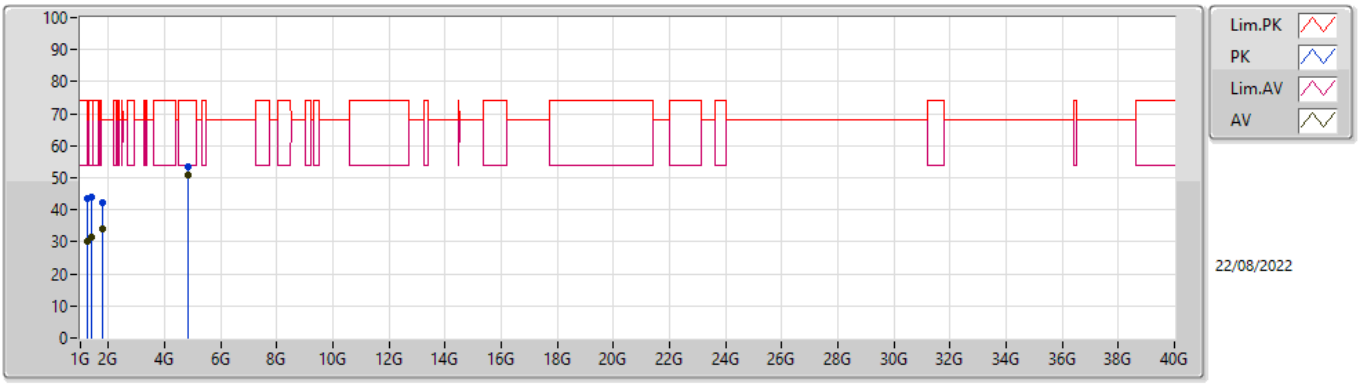
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
AV	1.42067G	32.21	54.00	-21.79	-4.94	3	Vertical	311	2.37	-	37.15	25.30	3.67	33.91
AV	1.77G	30.27	68.20	-37.93	-4.61	3	Vertical	58	1.81	-	34.88	25.08	4.11	33.80
AV	2.232G	31.85	54.00	-22.15	-1.99	3	Vertical	150	1.53	-	33.84	27.31	4.57	33.87
AV	3.016G	34.52	68.20	-33.68	0.83	3	Vertical	348	2.04	-	33.69	29.50	5.46	34.13
AV	4.82398G	50.47	54.00	-3.53	5.21	3	Vertical	152	2.86	-	45.26	32.60	6.90	34.29
AV	5.13G	38.52	54.00	-15.48	6.05	3	Vertical	178	2.00	-	32.47	33.14	7.17	34.26
PK	1.42067G	51.43	74.00	-22.57	-4.94	3	Vertical	311	2.37	-	56.37	25.30	3.67	33.91
PK	1.77G	44.07	68.20	-24.13	-4.61	3	Vertical	58	1.81	-	48.68	25.08	4.11	33.80
PK	2.232G	50.28	74.00	-23.72	-1.99	3	Vertical	150	1.53	-	52.27	27.31	4.57	33.87
PK	3.016G	47.61	68.20	-20.59	0.83	3	Vertical	348	2.04	-	46.78	29.50	5.46	34.13
PK	4.82398G	53.53	74.00	-20.47	5.21	3	Vertical	152	2.86	-	48.32	32.60	6.90	34.29
PK	5.13G	49.32	74.00	-24.68	6.05	3	Vertical	178	2.00	-	43.27	33.14	7.17	34.26

Radiated Emissions above 1GHz_Mode 2



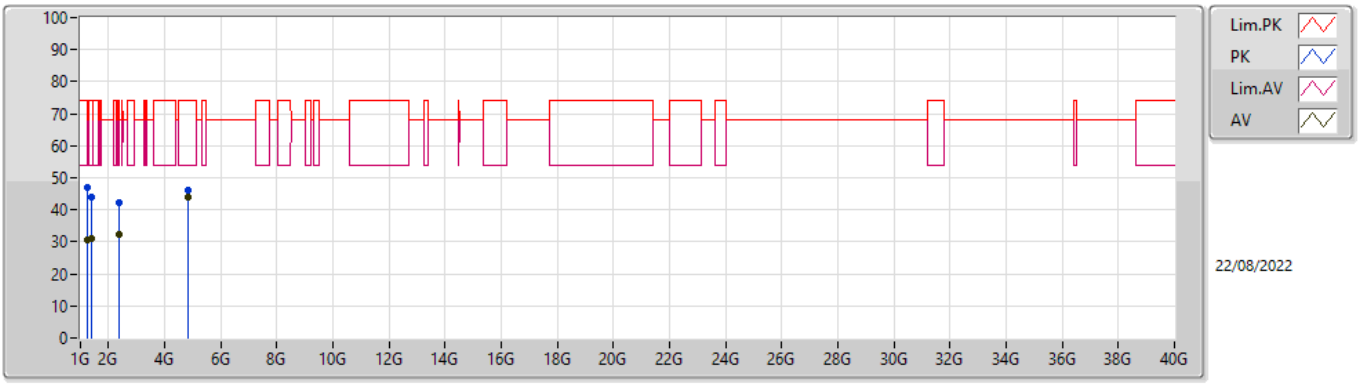
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
AV	1.238G	31.55	54.00	-22.45	-4.75	3	Horizontal	39	2.03	-	36.30	26.05	3.41	34.21
AV	1.406G	31.04	54.00	-22.96	-4.98	3	Horizontal	27	1.66	-	36.02	25.30	3.65	33.93
AV	2.232G	33.22	54.00	-20.78	-1.99	3	Horizontal	107	1.81	-	35.21	27.31	4.57	33.87
AV	2.988G	32.91	68.20	-35.29	0.74	3	Horizontal	294	1.48	-	32.17	29.43	5.44	34.13
AV	3.184G	35.53	68.20	-32.67	1.14	3	Horizontal	23	1.36	-	34.39	29.77	5.54	34.17
AV	4.822G	47.56	54.00	-6.44	5.20	3	Horizontal	355	1.80	-	42.36	32.59	6.90	34.29
PK	1.238G	46.61	74.00	-27.39	-4.75	3	Horizontal	39	2.03	-	51.36	26.05	3.41	34.21
PK	1.406G	46.65	74.00	-27.35	-4.98	3	Horizontal	27	1.66	-	51.63	25.30	3.65	33.93
PK	2.232G	43.16	74.00	-30.84	-1.99	3	Horizontal	107	1.81	-	45.15	27.31	4.57	33.87
PK	2.988G	45.25	68.20	-22.95	0.74	3	Horizontal	294	1.48	-	44.51	29.43	5.44	34.13
PK	3.184G	47.86	68.20	-20.34	1.14	3	Horizontal	23	1.36	-	46.72	29.77	5.54	34.17
PK	4.822G	49.03	74.00	-24.97	5.20	3	Horizontal	355	1.80	-	43.83	32.59	6.90	34.29

Radiated Emissions above 1GHz_Mode 3



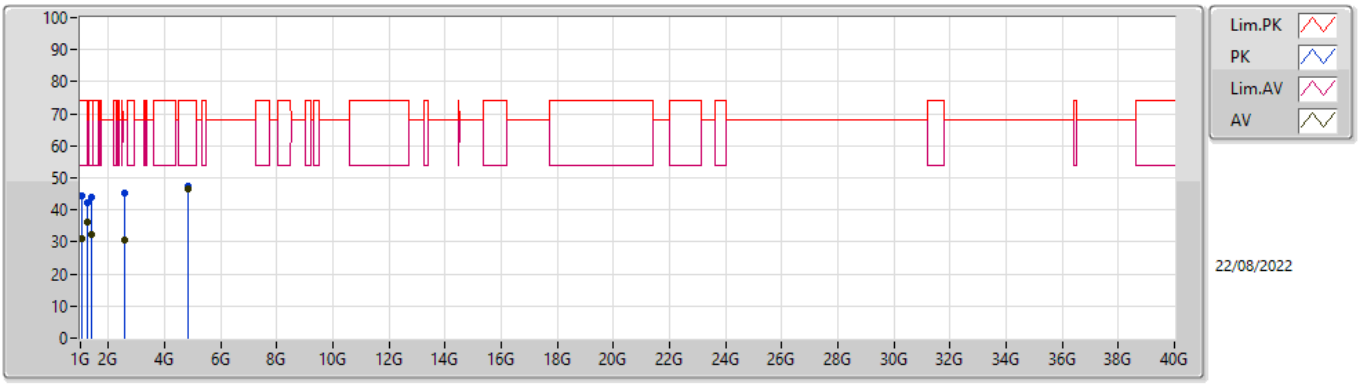
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
AV	1.238G	30.11	54.00	-23.89	-4.75	3	Vertical	55	1.17	-	34.86	26.05	3.41	34.21
AV	1.406G	31.52	54.00	-22.48	-4.98	3	Vertical	359	1.32	-	36.50	25.30	3.65	33.93
AV	1.77G	34.01	68.20	-34.19	-4.61	3	Vertical	147	1.28	-	38.62	25.08	4.11	33.80
AV	4.822G	50.67	54.00	-3.33	5.20	3	Vertical	16	2.20	-	45.47	32.59	6.90	34.29
PK	1.238G	43.53	74.00	-30.47	-4.75	3	Vertical	55	1.17	-	48.28	26.05	3.41	34.21
PK	1.406G	43.98	74.00	-30.02	-4.98	3	Vertical	359	1.32	-	48.96	25.30	3.65	33.93
PK	1.77G	42.41	68.20	-25.79	-4.61	3	Vertical	147	1.28	-	47.02	25.08	4.11	33.80
PK	4.822G	53.51	74.00	-20.49	5.20	3	Vertical	16	2.20	-	48.31	32.59	6.90	34.29

Radiated Emissions above 1GHz_Mode 3



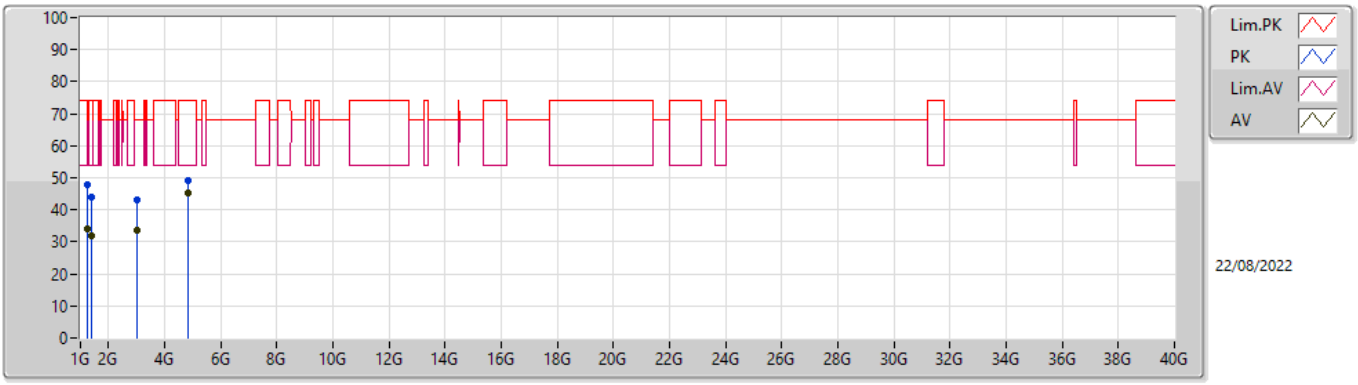
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
AV	1.238G	30.57	54.00	-23.43	-4.75	3	Horizontal	24	1.81	-	35.32	26.05	3.41	34.21
AV	1.406G	31.25	54.00	-22.75	-4.98	3	Horizontal	42	2.36	-	36.23	25.30	3.65	33.93
AV	2.358G	32.13	54.00	-21.87	-2.08	3	Horizontal	209	1.96	-	34.21	27.32	4.50	33.90
AV	4.822G	43.83	54.00	-10.17	5.20	3	Horizontal	136	1.32	-	38.63	32.59	6.90	34.29
PK	1.238G	46.95	74.00	-27.05	-4.75	3	Horizontal	24	1.81	-	51.70	26.05	3.41	34.21
PK	1.406G	43.81	74.00	-30.19	-4.98	3	Horizontal	42	2.36	-	48.79	25.30	3.65	33.93
PK	2.358G	42.31	74.00	-31.69	-2.08	3	Horizontal	209	1.96	-	44.39	27.32	4.50	33.90
PK	4.822G	46.00	74.00	-28.00	5.20	3	Horizontal	136	1.32	-	40.80	32.59	6.90	34.29

Radiated Emissions above 1GHz_Mode 4



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
AV	1.056G	31.25	54.00	-22.75	-6.35	3	Vertical	73	1.68	-	37.60	25.02	3.14	34.51
AV	1.238G	36.31	54.00	-17.69	-4.75	3	Vertical	256	2.37	-	41.06	26.05	3.41	34.21
AV	1.406G	32.36	54.00	-21.64	-4.98	3	Vertical	129	1.32	-	37.34	25.30	3.65	33.93
AV	2.582G	30.58	68.20	-37.62	-1.34	3	Vertical	21	2.25	-	31.92	28.13	4.50	33.97
AV	4.822G	46.36	54.00	-7.64	5.20	3	Vertical	63	1.30	-	41.16	32.59	6.90	34.29
PK	1.056G	44.38	74.00	-29.62	-6.35	3	Vertical	73	1.68	-	50.73	25.02	3.14	34.51
PK	1.238G	42.37	74.00	-31.63	-4.75	3	Vertical	256	2.37	-	47.12	26.05	3.41	34.21
PK	1.406G	44.17	74.00	-29.83	-4.98	3	Vertical	129	1.32	-	49.15	25.30	3.65	33.93
PK	2.582G	45.44	68.20	-22.76	-1.34	3	Vertical	21	2.25	-	46.78	28.13	4.50	33.97
PK	4.822G	47.24	74.00	-26.76	5.20	3	Vertical	63	1.30	-	42.04	32.59	6.90	34.29

Radiated Emissions above 1GHz_Mode 4



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
AV	1.238G	34.21	54.00	-19.79	-4.75	3	Horizontal	196	2.04	-	38.96	26.05	3.41	34.21
AV	1.406G	32.01	54.00	-21.99	-4.98	3	Horizontal	79	1.13	-	36.99	25.30	3.65	33.93
AV	3.002G	33.47	68.20	-34.73	0.82	3	Horizontal	57	2.36	-	32.65	29.50	5.45	34.13
AV	4.822G	45.25	54.00	-8.75	5.20	3	Horizontal	39	2.25	-	40.05	32.59	6.90	34.29
PK	1.238G	47.85	74.00	-26.15	-4.75	3	Horizontal	196	2.04	-	52.60	26.05	3.41	34.21
PK	1.406G	43.88	74.00	-30.12	-4.98	3	Horizontal	79	1.13	-	48.86	25.30	3.65	33.93
PK	3.002G	43.11	68.20	-25.09	0.82	3	Horizontal	57	2.36	-	42.29	29.50	5.45	34.13
PK	4.822G	49.03	74.00	-24.97	5.20	3	Horizontal	39	2.25	-	43.83	32.59	6.90	34.29