FCC Radio Test Report

FCC ID	:	**RI7WE310G4**
Equipment	:	**802.11 a/b/g/n WiFi Module+BT combo module**
Brand Name	:	**Telit**
Model Name	:	**WE310G4-I, WE310G4-P**
Applicant	:	**Telit Communications S.p.A. Viale Stazione di Prosecco 5/b, Trieste 34010, Italy**
Manufacturer	:	**Telit Communications S.p.A. Viale Stazione di Prosecco 5/b, Trieste 34010, Italy**
Standard	:	**47 CFR FCC Part 15.247**

The product was received on Jun. 14, 2022, and testing was started from Jul. 15, 2022 and completed on Jul. 28, 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.

Ben Tseng

Approved by: Ben Tseng

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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

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History of this test report

Report No.	Version	Description	Issued Date
FR261411AL	01	Initial issue of report	Nov. 11, 2022

Summary of Test Result

Report Clause	Ref.Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	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: Ryan 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(2Mbps)	2.0	1TX

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Remark
1	Atel-Antennas	T-AT9552	Dipole	Reverse SMA	WE310G4-P
2	AMOTECH Co., Ltd	AMOC42H12F7PA	Dielectric Chip Antenna	N/A	WE310G4-I

Ant.	Port	Gain (dBi)				
		2.4G	5150MHz	5500 MHz	5850MHz	BT
1	1	2.5	4.5	4.5	4.5	2.5
2	1	2.28	3.34	3.21	3.15	2.28

Note 1: The EUT has two antennas.

For 2.4GHz function:

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

Ant. 1 (port 1) or Ant. 2 (port 1) could transmit/receive.

For BT function:

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

Ant. 1 (port 1) or Ant. 2 (port 1) could transmit/receive.

For 5GHz function:

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

Ant. 1 (port 1) or Ant. 2 (port 1) could transmit/receive.

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From Host system (USB)			
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)	0.856	0.68	2.139m	1k
BT-LE(2Mbps)	0.603	2.2	1.08m	1k

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
WE310G4-I	module with integrated SMD antenna
WE310G4-P	module without integrated SMD 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	CO04-HY	Wayne	21.6~22.1°C / 56~59%	28/Jul/2022
RF Conducted	TH06-HY	Johnny	20.1~26.9°C / 50~60%	26/Jul/2022
Radiated	03CH03-HY	Edward	20.1~26.9°C / 50~60%	15/Jul/2022~27/Jul/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	RTLBAPP Version:5.2.2.40

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default
BT-LE(2Mbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default

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	Test Fixture mode (WE310G4-I)
2	Test Fixture mode (WE310G4-P)

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	Test Fixture mode (WE310G4-I)		
2	Test Fixture mode (WE310G4-P)		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	**X Plane**	**Y Plane**	**Z Plane**
			
Worst Planes of EUT	V (WE310G4-P)	V (WE310G4-I)	

2.3 Support Equipment

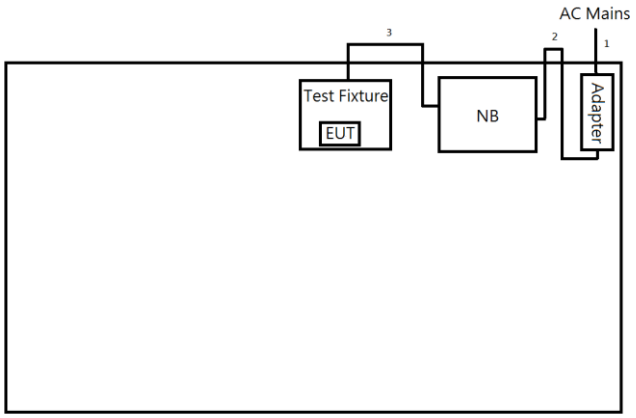
Support Equipment – AC Conduction					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	HP	5220M	-	-
2	Adapter for Notebook	HP	PPP012L-E	-	-
3	AC Power cable	Power Sync	TPCMRN0018	-	-
4	Fixture	-	-	-	Provided by Customer
5	USB Cable	-	-	-	Provided by Customer
6	USB Cable	-	-	-	Provided by Customer

Support Equipment – Conducted					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	DELL	E5410	-	-
2	Adapter for Notebook	DELL	HA65NM130	-	-

Support Equipment – Radiated					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	HP	5220M	-	-
2	Adapter for Notebook	HP	PPP012L-E	-	-
3	AC Power cable	Power Sync	TPCMRN0018	-	-
4	Fixture	-	-	-	Provided by Customer
5	USB Cable	-	-	-	Provided by Customer
6	USB Cable	-	-	-	Provided by Customer

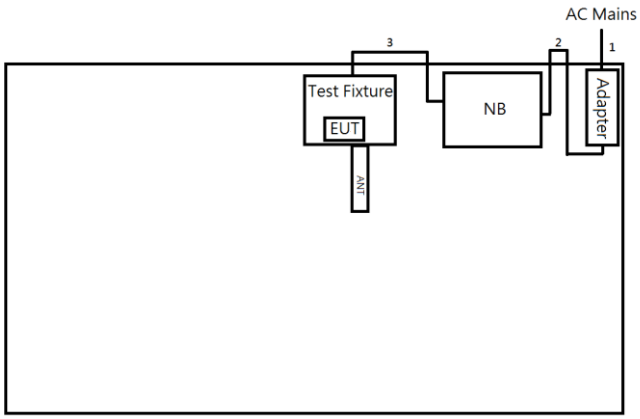
2.4 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test (WE310G4-I)



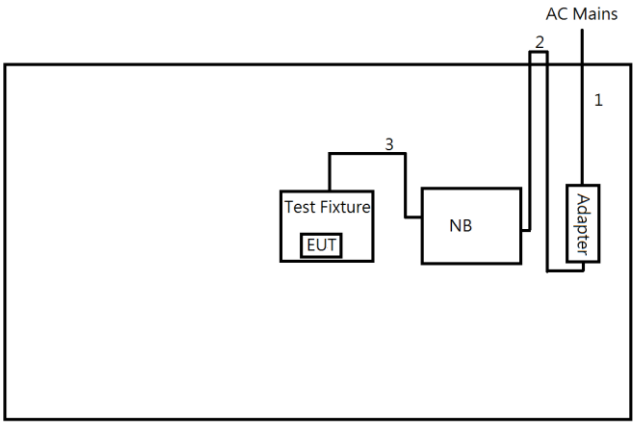
Item	Connection	Shielded	Length(m)
1	AC Power Cable	No	1.8
2	DC Power Cable	No	1.5
3	USB Cable	No	1.2

Test Setup Diagram – AC Line Conducted Emission Test (WE310G4-P)



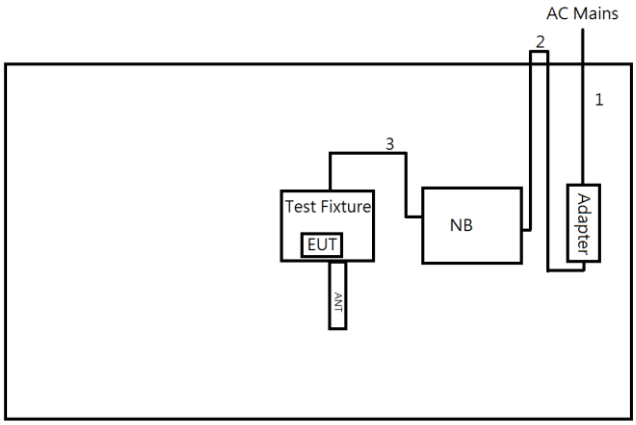
Item	Connection	Shielded	Length(m)
1	AC Power Cable	No	1.8
2	DC Power Cable	No	1.5
3	USB Cable	No	1.2

Test Setup Diagram - Radiated Test (WE310G4-I)



Item	Connection	Shielded	Length(m)
1	AC Power Cable	No	1.8
2	DC Power Cable	No	1.5
3	USB Cable	No	1.2

Test Setup Diagram - Radiated Test (WE310G4-P)



Item	Connection	Shielded	Length(m)
1	AC Power Cable	No	1.8
2	DC Power Cable	No	1.5
3	USB Cable	No	1.2

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

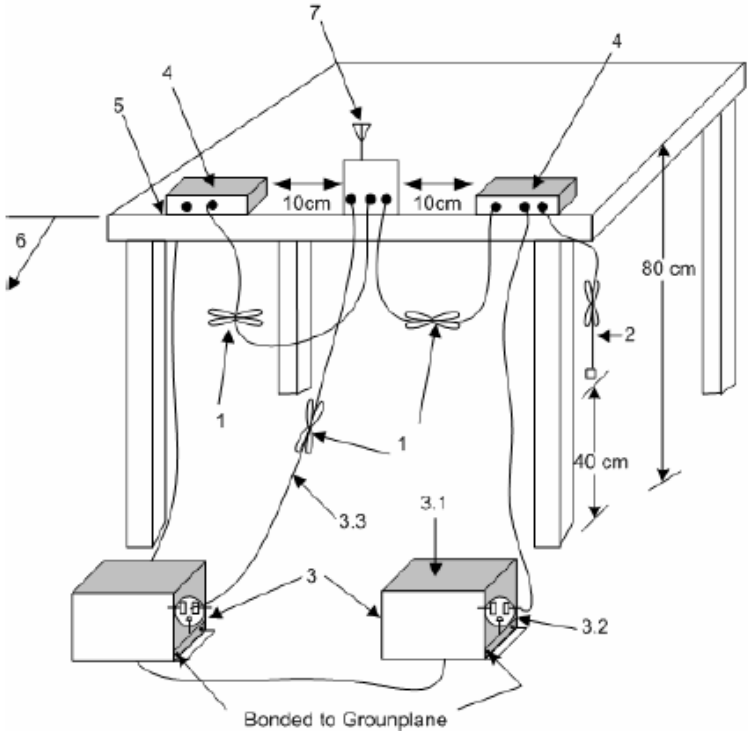
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions.

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.

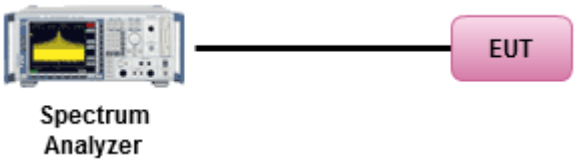
3.2.2 Measuring Instruments

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} ≤ 6 dBi, then P_{Out} ≤ 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 + 8dB dBm	
e.i.r.p. Power Limit:			
▪ 2400-2483.5 MHz Band			
	▪ Point-to-multipoint systems (P2M): P_{eirp} ≤ 36 dBm (4 W)		
	▪ Point-to-point systems (P2P): P_{eirp} ≤ MAX(36, [P_{Out} + G_{TX}]) dBm		
	▪ Smart antenna system (SAS)		
		- Single beam: P_{eirp} ≤ MAX(36, P_{Out} + G_{TX}) dBm	
		- Overlap beam: P_{eirp} ≤ MAX(36, P_{Out} + G_{TX}) dBm	
		- Aggregate power on all beams: P_{eirp} ≤ 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 Powe	
	☐ 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

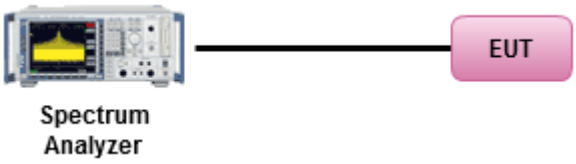
3.4.2 Measuring Instruments

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.	

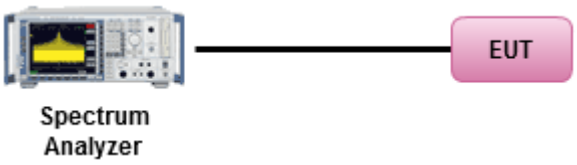
3.5.2 Measuring Instruments

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.

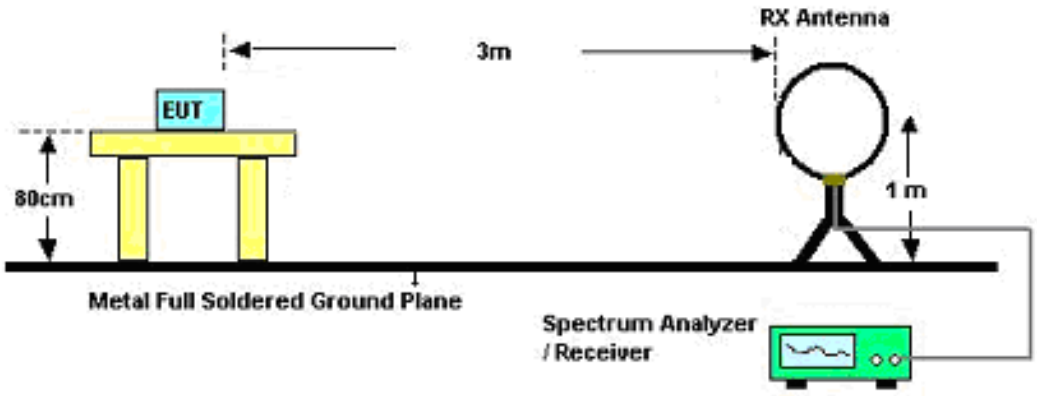
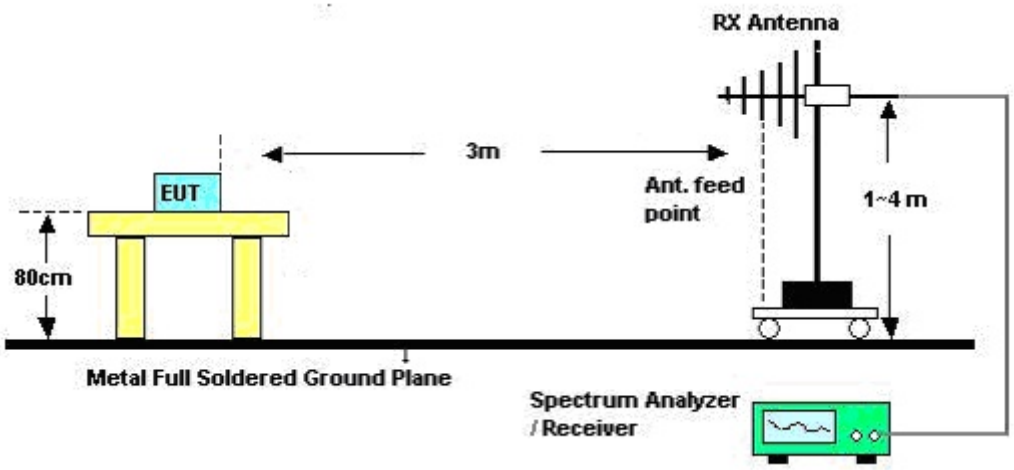
3.6.3 Test Procedures

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.

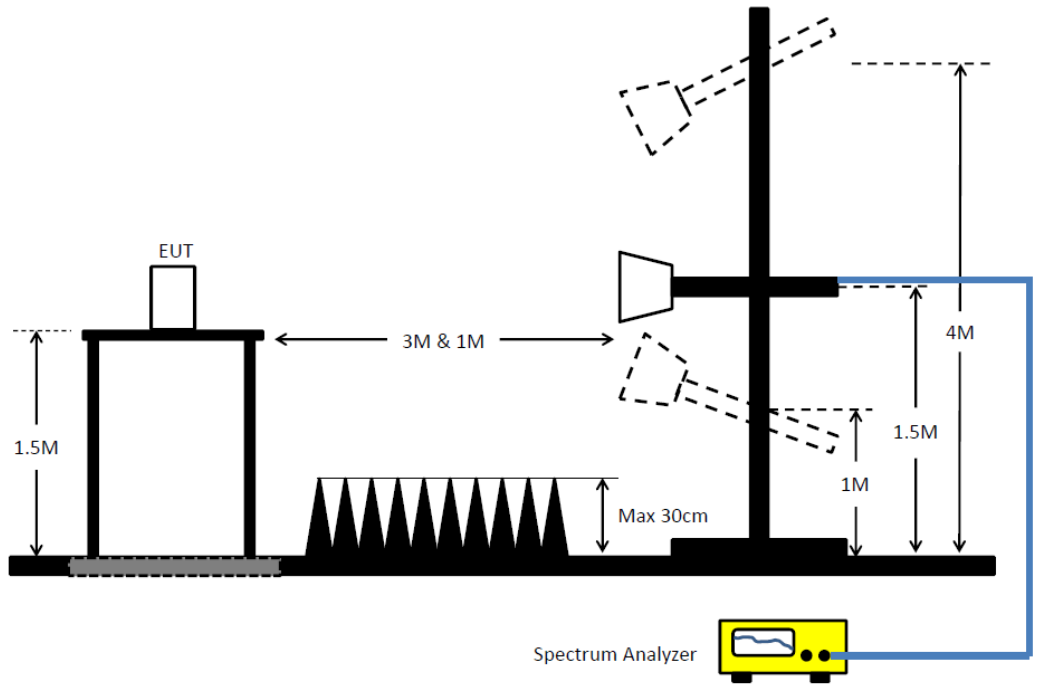
3.6.4 Measurement Results Calculation

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	ESR3	102051	9kHz ~ 3.6GHz	13/May/2022	12/May/2023
Two-Line V-Network	R&S	ENV 216	100003	9kHz ~ 30MHz	18/Feb/2022	17/Feb/2023
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	01/Mar/2022	28/Feb/2023
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	26/Oct/2021	25/Oct/2022
Software	Sporton	SENSE-EMI	V5.10.8.2	-	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	5.10.7.16	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	03CH03-HY	30MHz~1GHz 3m	03/Aug/2021	02/Aug/2022
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	03/Aug/2021	02/Aug/2022
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	12/Oct/2021	11/Oct/2022
Amplifier	HP	8447D	2944A08033	10kHz~1.3GHz	08/Apr/2022	07/Apr/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz ~18GHz	14/Sep/2021	13/Sep/2022
Bilog Antenna & 6dB Attenuator	SCHAFFNER / EMCI	CBL6112B / N-6-05	22237 / AT-N-0603	30MHz~1GHz	17/Oct/2021	16/Oct/2022
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~30MHz	13/Jun/2022	12/Jun/2023
RF Cable-R03m	Jye Bao	RG142	MY37335/4+CB02 1-1+CB021-2	30MHz~1GHz	22/Mar/2022	21/Mar/2023
RF CABLE 5+6m	HUBER+SUHNE R	SUOFLEX 104	SN MY38596/4 +SN 804300/4	1GHz~40GHz	28/Jul/2021	27/Jul/2022
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
Amplifier	KEYSIGHT	87422A	MY53270197	1GHz~26.5GHz	30/Nov/2021	29/Nov/2022
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	13/May/2022	12/May/2023
SENSE-15224_FS	Sporton	v5.10.7.14	NA	NA	NA	NA

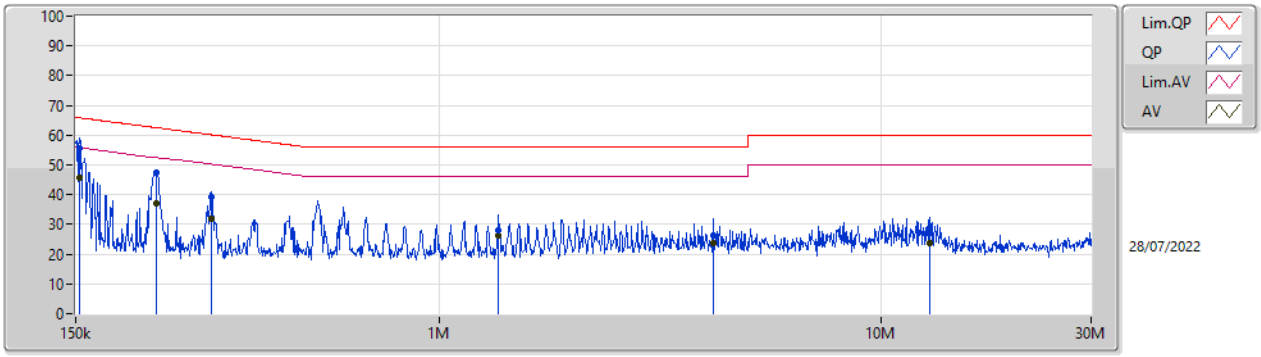
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	153.024k	56.98	65.83	-8.85	Neutral

Mode Configure

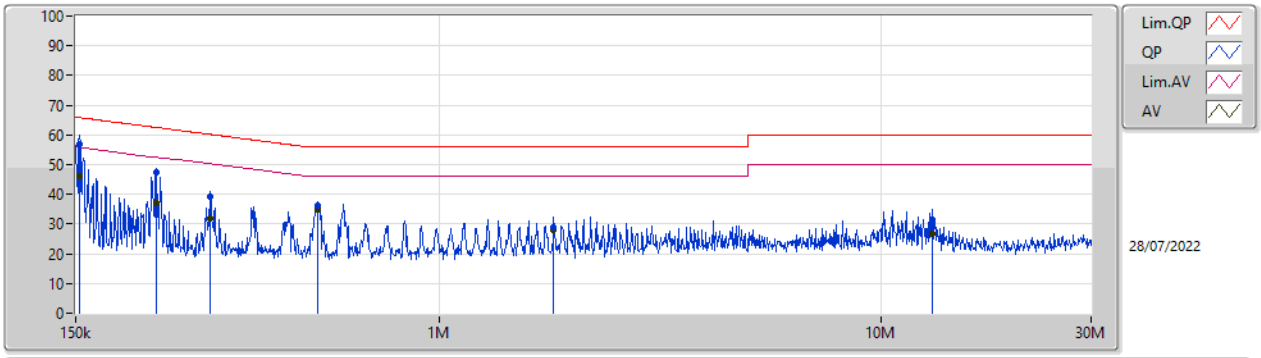
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	153.024k	55.81	65.83	-10.02	Line	-
Mode 1	Pass	AV	153.024k	45.60	55.83	-10.23	Line	-
Mode 1	Pass	QP	228.103k	47.43	62.52	-15.09	Line	-
Mode 1	Pass	AV	228.103k	37.26	52.52	-15.26	Line	-
Mode 1	Pass	QP	304.059k	39.34	60.13	-20.79	Line	-
Mode 1	Pass	AV	304.059k	31.97	50.13	-18.16	Line	-
Mode 1	Pass	QP	1.364M	28.09	56.00	-27.91	Line	-
Mode 1	Pass	AV	1.364M	26.24	46.00	-19.76	Line	-
Mode 1	Pass	QP	4.171M	26.18	56.00	-29.82	Line	-
Mode 1	Pass	AV	4.171M	23.72	46.00	-22.28	Line	-
Mode 1	Pass	QP	12.961M	28.47	60.00	-31.53	Line	-
Mode 1	Pass	AV	12.961M	23.61	50.00	-26.39	Line	-
Mode 1	Pass	QP	153.024k	56.98	65.83	-8.85	Neutral	-
Mode 1	Pass	AV	153.024k	46.26	55.83	-9.57	Neutral	-
Mode 1	Pass	QP	228.103k	47.47	62.52	-15.05	Neutral	-
Mode 1	Pass	AV	228.103k	37.12	52.52	-15.40	Neutral	-
Mode 1	Pass	QP	302.848k	39.28	60.17	-20.89	Neutral	-
Mode 1	Pass	AV	302.848k	31.92	50.17	-18.25	Neutral	-
Mode 1	Pass	QP	529.596k	36.07	56.00	-19.93	Neutral	-
Mode 1	Pass	AV	529.596k	34.81	46.00	-11.19	Neutral	-
Mode 1	Pass	QP	1.818M	28.96	56.00	-27.04	Neutral	-
Mode 1	Pass	AV	1.818M	27.99	46.00	-18.01	Neutral	-
Mode 1	Pass	QP	13.117M	31.49	60.00	-28.51	Neutral	-
Mode 1	Pass	AV	13.117M	26.88	50.00	-23.12	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	153.024k	55.81	65.83	-10.02	19.63	Line	-	36.18	9.69	0.03	9.91
AV	153.024k	45.60	55.83	-10.23	19.63	Line	-	25.97	9.69	0.03	9.91
QP	228.103k	47.43	62.52	-15.09	19.63	Line	-	27.80	9.69	0.03	9.91
AV	228.103k	37.26	52.52	-15.26	19.63	Line	-	17.63	9.69	0.03	9.91
QP	304.059k	39.34	60.13	-20.79	19.63	Line	-	19.71	9.68	0.04	9.91
AV	304.059k	31.97	50.13	-18.16	19.63	Line	-	12.34	9.68	0.04	9.91
QP	1.364M	28.09	56.00	-27.91	19.67	Line	-	8.42	9.69	0.06	9.92
AV	1.364M	26.24	46.00	-19.76	19.67	Line	-	6.57	9.69	0.06	9.92
QP	4.171M	26.18	56.00	-29.82	19.76	Line	-	6.42	9.71	0.13	9.92
AV	4.171M	23.72	46.00	-22.28	19.76	Line	-	3.96	9.71	0.13	9.92
QP	12.961M	28.47	60.00	-31.53	19.95	Line	-	8.52	9.80	0.22	9.93
AV	12.961M	23.61	50.00	-26.39	19.95	Line	-	3.66	9.80	0.22	9.93

Conducted Emissions at Powerline_Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	153.024k	56.98	65.83	-8.85	19.67	Neutral	-	37.31	9.73	0.03	9.91
AV	153.024k	46.26	55.83	-9.57	19.67	Neutral	-	26.59	9.73	0.03	9.91
QP	228.103k	47.47	62.52	-15.05	19.66	Neutral	-	27.81	9.72	0.03	9.91
AV	228.103k	37.12	52.52	-15.40	19.66	Neutral	-	17.46	9.72	0.03	9.91
QP	302.848k	39.28	60.17	-20.89	19.67	Neutral	-	19.61	9.72	0.04	9.91
AV	302.848k	31.92	50.17	-18.25	19.67	Neutral	-	12.25	9.72	0.04	9.91
QP	529.596k	36.07	56.00	-19.93	19.67	Neutral	-	16.40	9.72	0.04	9.91
AV	529.596k	34.81	46.00	-11.19	19.67	Neutral	-	15.14	9.72	0.04	9.91
QP	1.818M	28.96	56.00	-27.04	19.74	Neutral	-	9.22	9.74	0.08	9.92
AV	1.818M	27.99	46.00	-18.01	19.74	Neutral	-	8.25	9.74	0.08	9.92
QP	13.117M	31.49	60.00	-28.51	20.08	Neutral	-	11.41	9.93	0.22	9.93
AV	13.117M	26.88	50.00	-23.12	20.08	Neutral	-	6.80	9.93	0.22	9.93

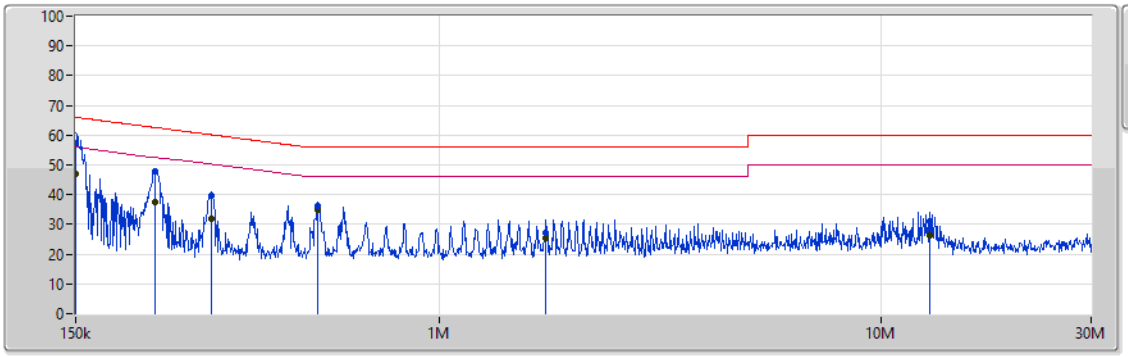
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	151.807k	57.97	65.90	-7.93	Neutral

Mode Configure

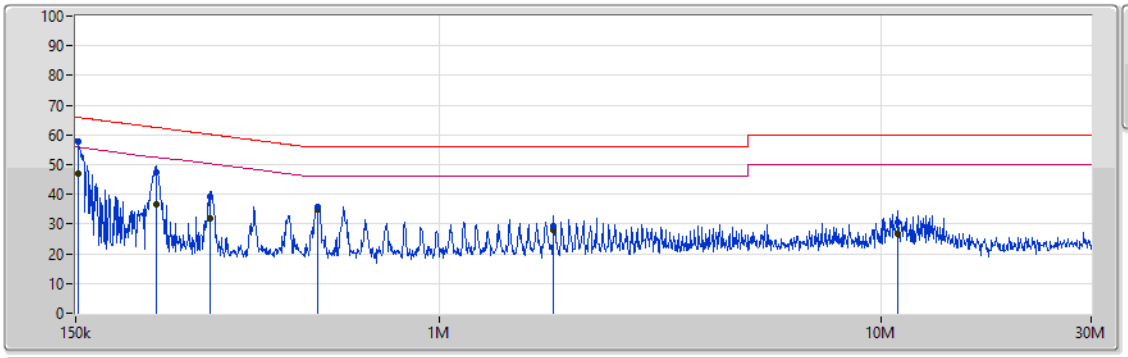
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	150k	57.26	66.00	-8.74	Line	-
Mode 1	Pass	AV	150k	46.86	56.00	-9.14	Line	-
Mode 1	Pass	QP	227.194k	47.79	62.56	-14.77	Line	-
Mode 1	Pass	AV	227.194k	37.44	52.56	-15.12	Line	-
Mode 1	Pass	QP	304.059k	39.53	60.13	-20.60	Line	-
Mode 1	Pass	AV	304.059k	32.05	50.13	-18.08	Line	-
Mode 1	Pass	QP	531.714k	36.30	56.00	-19.70	Line	-
Mode 1	Pass	AV	531.714k	34.91	46.00	-11.09	Line	-
Mode 1	Pass	QP	1.747M	27.20	56.00	-28.80	Line	-
Mode 1	Pass	AV	1.747M	25.48	46.00	-20.52	Line	-
Mode 1	Pass	QP	12.961M	31.17	60.00	-28.83	Line	-
Mode 1	Pass	AV	12.961M	26.43	50.00	-23.57	Line	-
Mode 1	Pass	QP	151.807k	57.97	65.90	-7.93	Neutral	-
Mode 1	Pass	AV	151.807k	46.97	55.90	-8.93	Neutral	-
Mode 1	Pass	QP	228.103k	47.53	62.52	-14.99	Neutral	-
Mode 1	Pass	AV	228.103k	36.80	52.52	-15.72	Neutral	-
Mode 1	Pass	QP	302.848k	39.32	60.17	-20.85	Neutral	-
Mode 1	Pass	AV	302.848k	31.95	50.17	-18.22	Neutral	-
Mode 1	Pass	QP	529.596k	35.96	56.00	-20.04	Neutral	-
Mode 1	Pass	AV	529.596k	34.84	46.00	-11.16	Neutral	-
Mode 1	Pass	QP	1.818M	29.13	56.00	-26.87	Neutral	-
Mode 1	Pass	AV	1.818M	28.16	46.00	-17.84	Neutral	-
Mode 1	Pass	QP	10.917M	30.78	60.00	-29.22	Neutral	-
Mode 1	Pass	AV	10.917M	26.58	50.00	-23.42	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	57.26	66.00	-8.74	19.63	Line	-	37.63	9.69	0.03	9.91
AV	150k	46.86	56.00	-9.14	19.63	Line	-	27.23	9.69	0.03	9.91
QP	227.194k	47.79	62.56	-14.77	19.63	Line	-	28.16	9.69	0.03	9.91
AV	227.194k	37.44	52.56	-15.12	19.63	Line	-	17.81	9.69	0.03	9.91
QP	304.059k	39.53	60.13	-20.60	19.63	Line	-	19.90	9.68	0.04	9.91
AV	304.059k	32.05	50.13	-18.08	19.63	Line	-	12.42	9.68	0.04	9.91
QP	531.714k	36.30	56.00	-19.70	19.63	Line	-	16.67	9.68	0.04	9.91
AV	531.714k	34.91	46.00	-11.09	19.63	Line	-	15.28	9.68	0.04	9.91
QP	1.747M	27.20	56.00	-28.80	19.69	Line	-	7.51	9.70	0.07	9.92
AV	1.747M	25.48	46.00	-20.52	19.69	Line	-	5.79	9.70	0.07	9.92
QP	12.961M	31.17	60.00	-28.83	19.95	Line	-	11.22	9.80	0.22	9.93
AV	12.961M	26.43	50.00	-23.57	19.95	Line	-	6.48	9.80	0.22	9.93

Conducted Emissions at Powerline_Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	151.807k	57.97	65.90	-7.93	19.67	Neutral	-	38.30	9.73	0.03	9.91
AV	151.807k	46.97	55.90	-8.93	19.67	Neutral	-	27.30	9.73	0.03	9.91
QP	228.103k	47.53	62.52	-14.99	19.66	Neutral	-	27.87	9.72	0.03	9.91
AV	228.103k	36.80	52.52	-15.72	19.66	Neutral	-	17.14	9.72	0.03	9.91
QP	302.848k	39.32	60.17	-20.85	19.67	Neutral	-	19.65	9.72	0.04	9.91
AV	302.848k	31.95	50.17	-18.22	19.67	Neutral	-	12.28	9.72	0.04	9.91
QP	529.596k	35.96	56.00	-20.04	19.67	Neutral	-	16.29	9.72	0.04	9.91
AV	529.596k	34.84	46.00	-11.16	19.67	Neutral	-	15.17	9.72	0.04	9.91
QP	1.818M	29.13	56.00	-26.87	19.74	Neutral	-	9.39	9.74	0.08	9.92
AV	1.818M	28.16	46.00	-17.84	19.74	Neutral	-	8.42	9.74	0.08	9.92
QP	10.917M	30.78	60.00	-29.22	20.02	Neutral	-	10.76	9.90	0.19	9.93
AV	10.917M	26.58	50.00	-23.42	20.02	Neutral	-	6.56	9.90	0.19	9.93

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)	672.5k	1.032M	1M03F1D	650k	1.032M
BT-LE(2Mbps)	1.138M	2.081M	2M08F1D	1.123M	2.046M

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

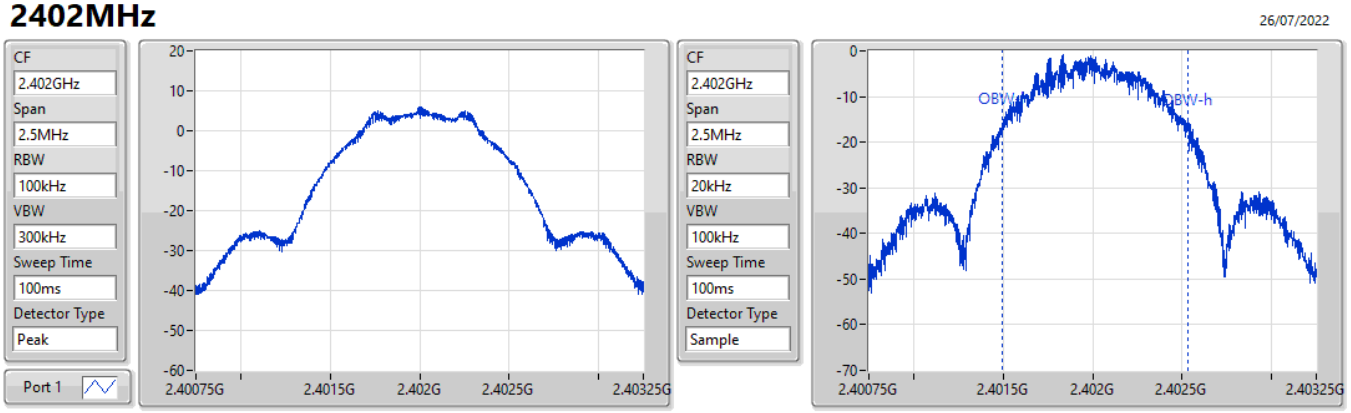
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	672.5k	1.032M
2440MHz	Pass	500k	650k	1.032M
2480MHz	Pass	500k	666.25k	1.032M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.123M	2.046M
2440MHz	Pass	500k	1.123M	2.056M
2480MHz	Pass	500k	1.138M	2.081M

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

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

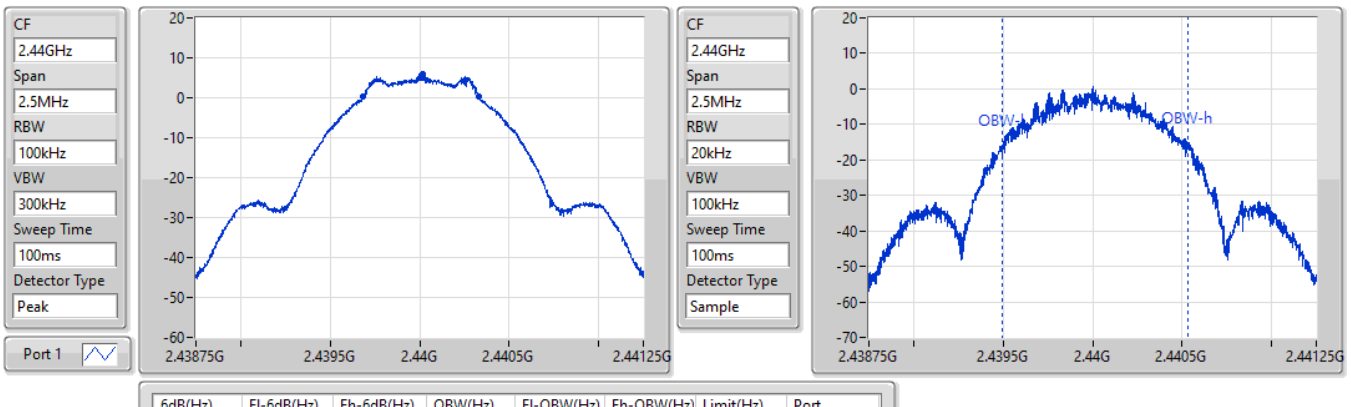
2402MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
672.5k	2.401669G	2.402341G	1.032M	2.401498G	2.40253G	500k	1

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

2440MHz

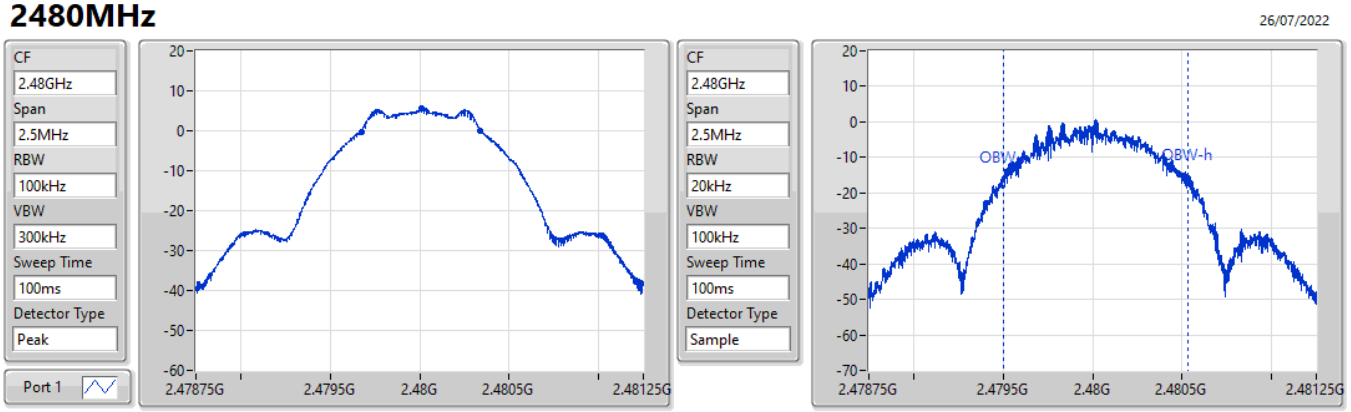


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
650k	2.439683G	2.440333G	1.032M	2.439498G	2.44053G	500k	1

BT-LE(1Mbps)

EBW-DTS

2480MHz

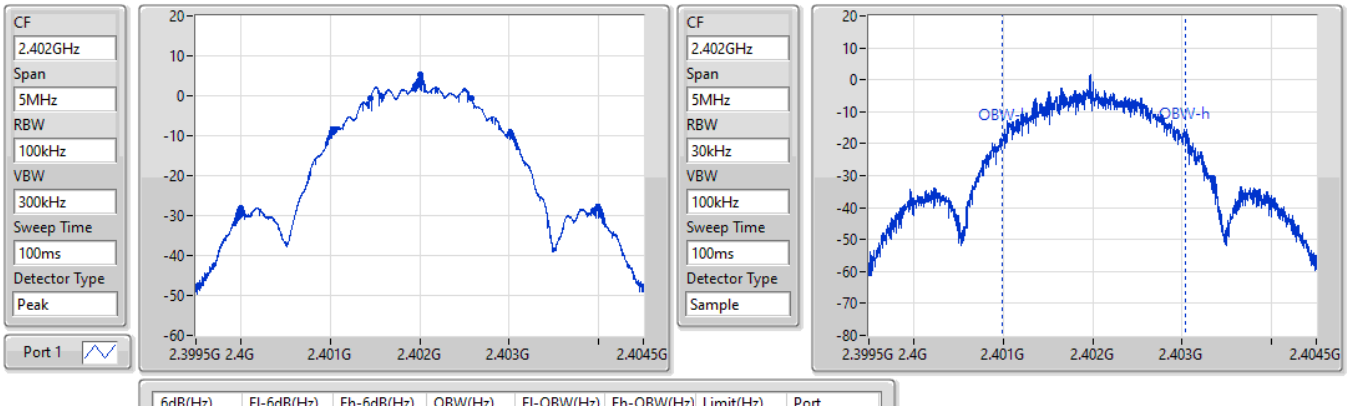


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
666.25k	2.479674G	2.48034G	1.032M	2.479499G	2.480531G	500k	1

BT-LE(2Mbps)

EBW-DTS

2402MHz

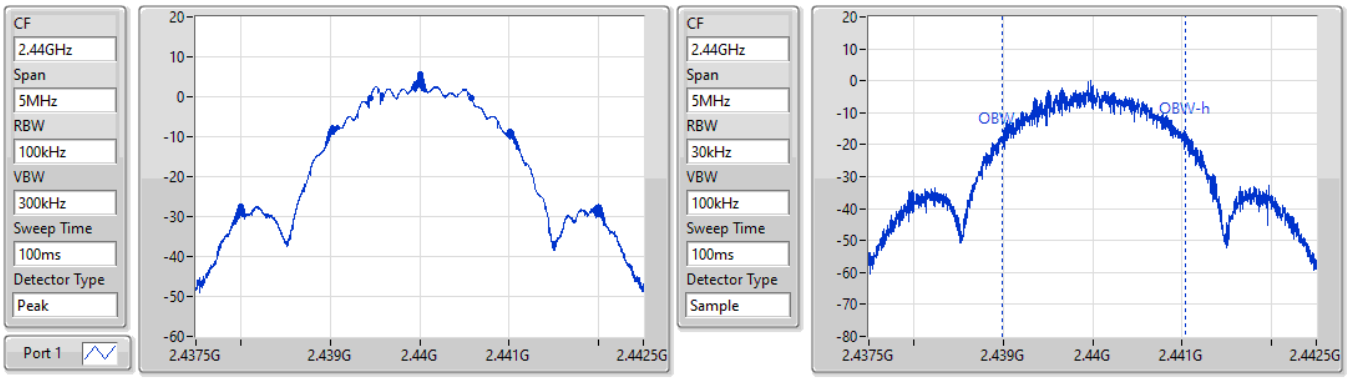


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.123M	2.401453G	2.402575G	2.046M	2.400996G	2.403042G	500k	1

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

2440MHz

26/07/2022

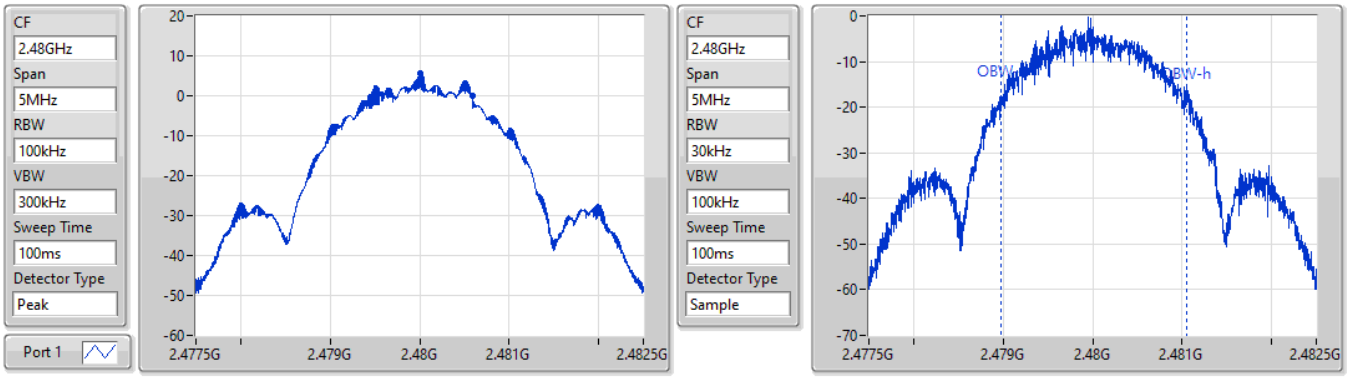


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.123M	2.43945G	2.440573G	2.056M	2.438986G	2.441042G	500k	1

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

2480MHz

26/07/2022



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.138M	2.479448G	2.480585G	2.081M	2.478976G	2.481057G	500k	1

Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	6.25	0.00422
BT-LE(2Mbps)	5.90	0.00389

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.50	5.85	30.00
2440MHz	Pass	2.50	6.18	30.00
2480MHz	Pass	2.50	6.25	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	2.50	5.41	30.00
2440MHz	Pass	2.50	5.90	30.00
2480MHz	Pass	2.50	5.89	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-9.60
BT-LE(2Mbps)	-11.39

RBW = 3kHz;

Result

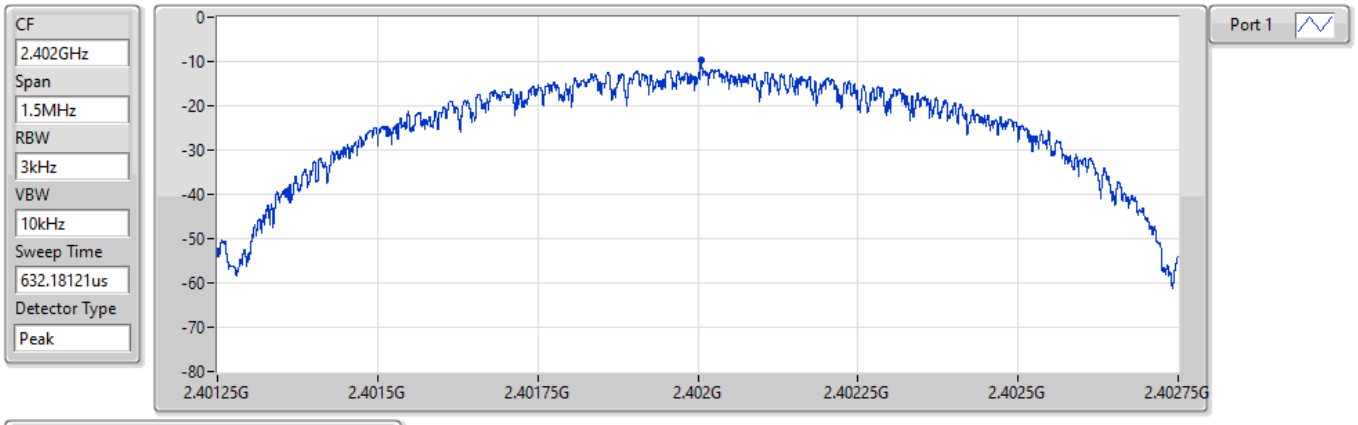
Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.50	-9.60	8.00
2440MHz	Pass	2.50	-10.71	8.00
2480MHz	Pass	2.50	-10.81	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	2.50	-17.00	8.00
2440MHz	Pass	2.50	-12.46	8.00
2480MHz	Pass	2.50	-11.39	8.00

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

26/07/2022

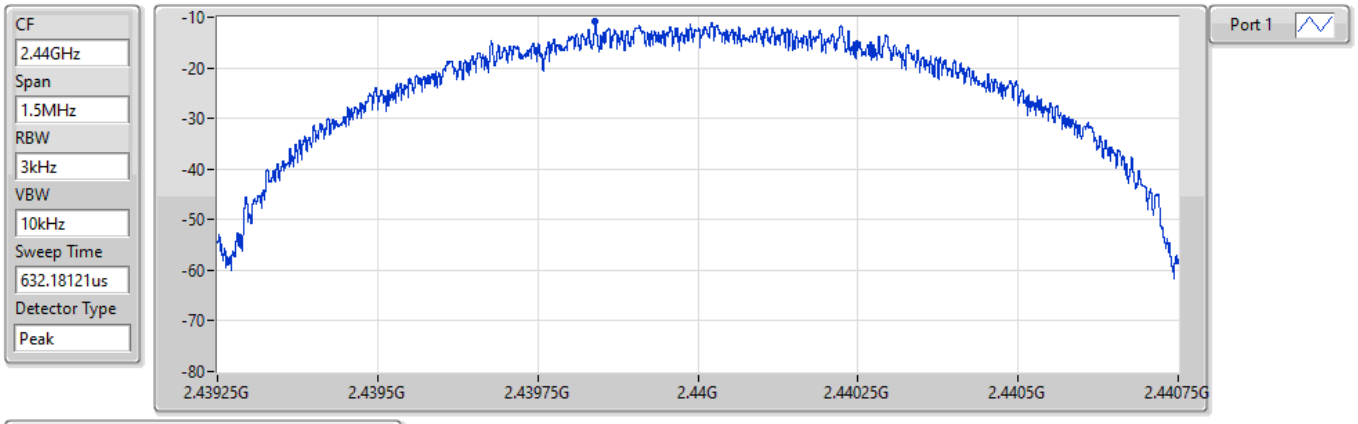


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.60	-9.60	-9.60

BT-LE(1Mbps) **PSD**

2440MHz

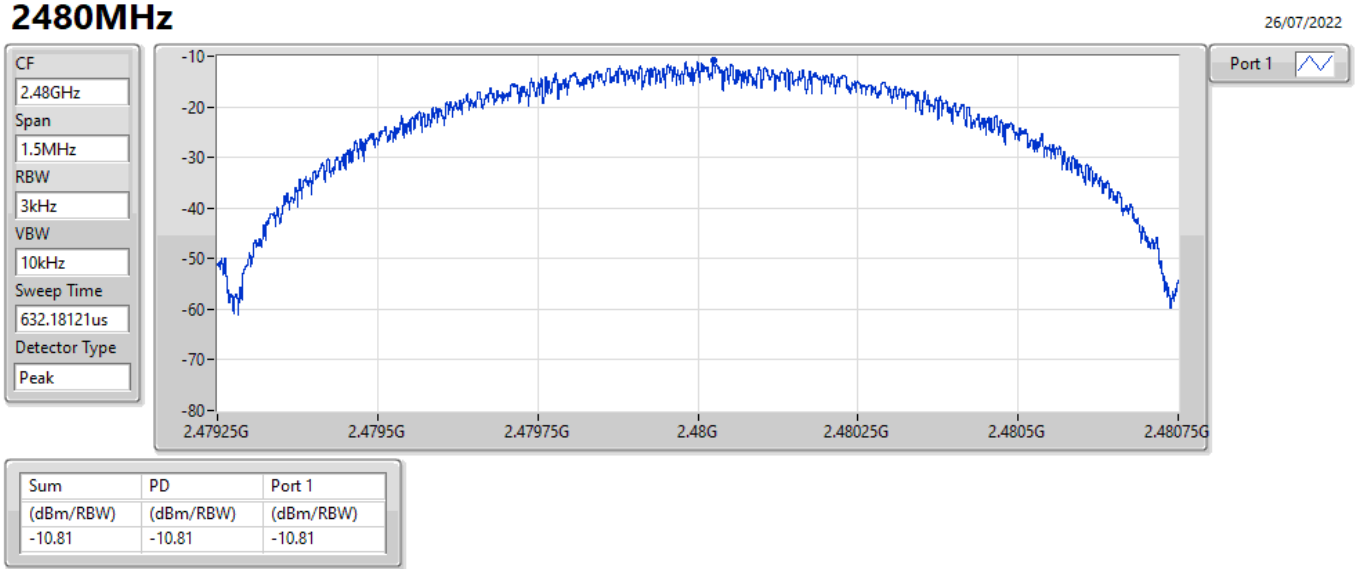
26/07/2022



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.71	-10.71	-10.71

BT-LE(1Mbps) PSD

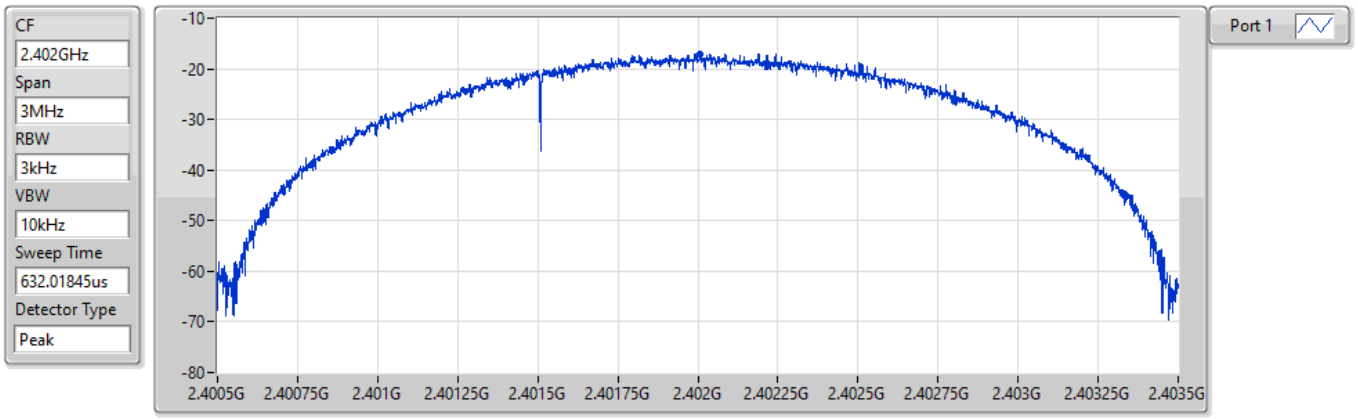
2480MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.81	-10.81	-10.81

BT-LE(2Mbps) PSD

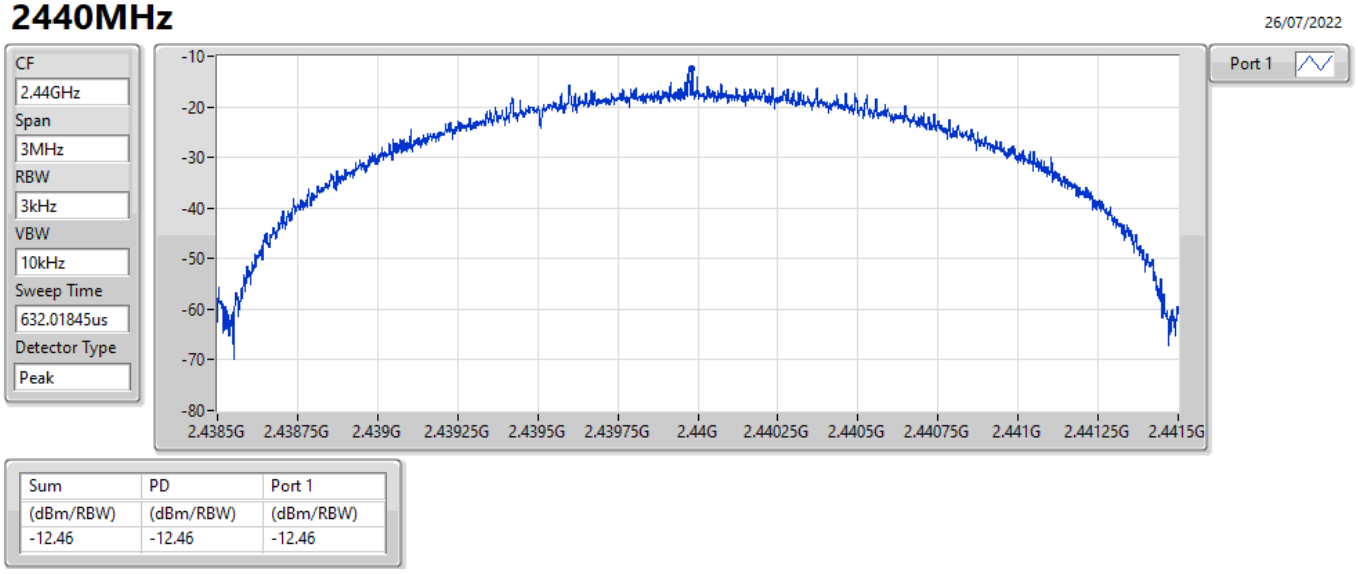
2402MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-17.00	-17.00	-17.00

BT-LE(2Mbps) PSD

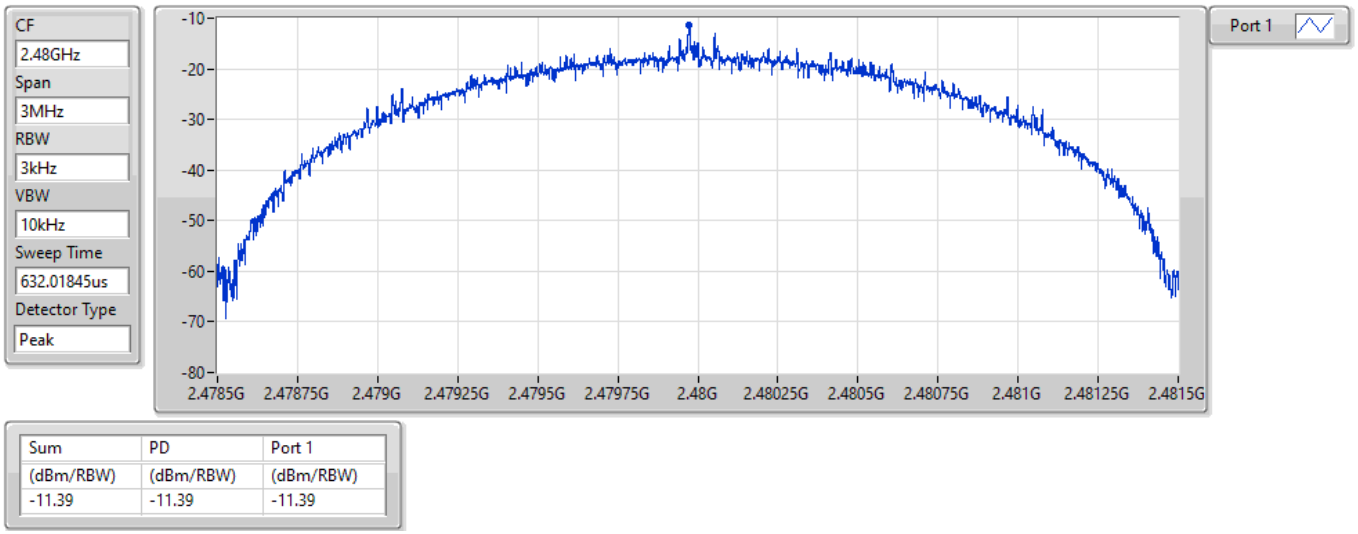
2440MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.46	-12.46	-12.46

BT-LE(2Mbps) PSD

2480MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.39	-11.39	-11.39

Summary

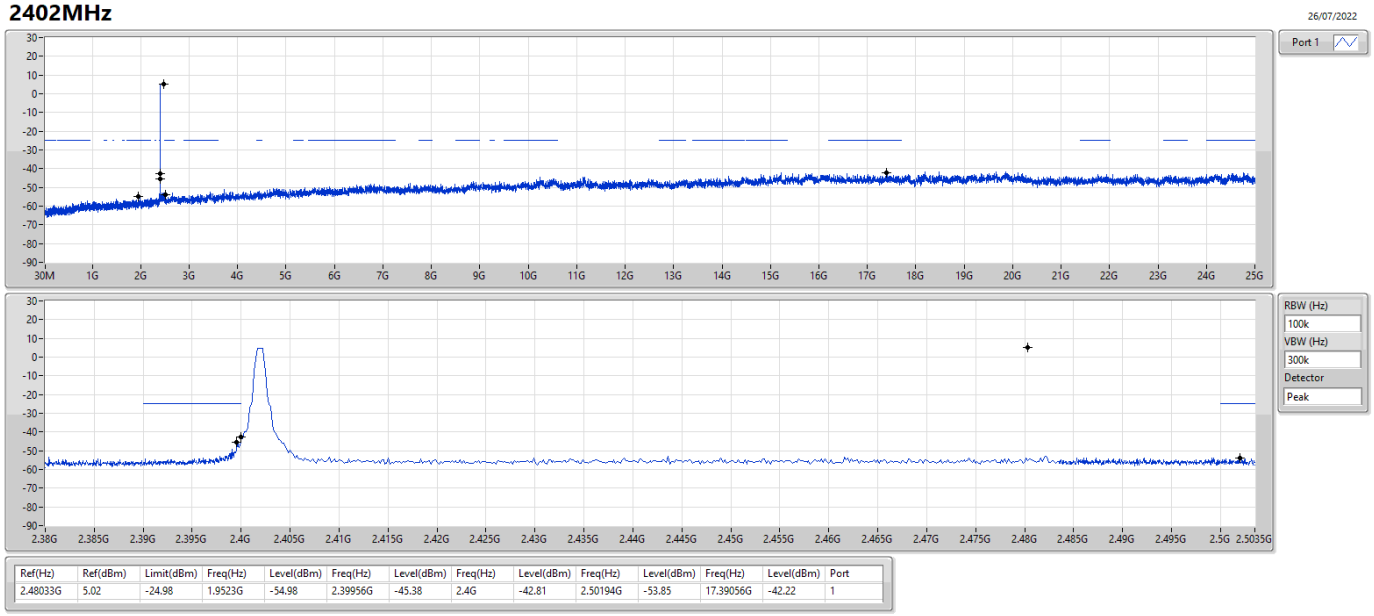
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.48033G	5.02	-24.98	1.9523G	-54.98	2.39956G	-45.38	2.4G	-42.81	2.50194G	-53.85	17.39056G	-42.22	1
BT-LE(2Mbps)	Pass	2.43991G	4.93	-25.07	1.79015G	-55.53	2.4G	-27.87	2.4G	-28.05	2.50046G	-53.56	24.15919G	-41.58	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	2.48033G	5.02	-24.98	1.9523G	-54.98	2.39956G	-45.38	2.4G	-42.81	2.50194G	-53.85	17.39056G	-42.22	1
2440MHz	Pass	2.48033G	5.02	-24.98	2.1403G	-55.58	2.3998G	-54.27	2.4G	-54.59	2.50346G	-53.52	24.50508G	-41.87	1
2480MHz	Pass	2.48033G	5.02	-24.98	2.12503G	-55.18	2.3996G	-54.16	2.4G	-53.86	2.50342G	-53.86	24.581G	-41.99	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.43991G	4.93	-25.07	1.79015G	-55.53	2.4G	-27.87	2.4G	-28.05	2.50046G	-53.56	24.15919G	-41.58	1
2440MHz	Pass	2.43991G	4.93	-25.07	2.17085G	-54.81	2.391G	-54.32	2.4G	-55.84	2.5007G	-53.73	24.12264G	-40.88	1
2480MHz	Pass	2.43991G	4.93	-25.07	1.87475G	-54.94	2.4G	-53.60	2.4G	-55.94	2.50078G	-54.52	24.63724G	-42.08	1

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

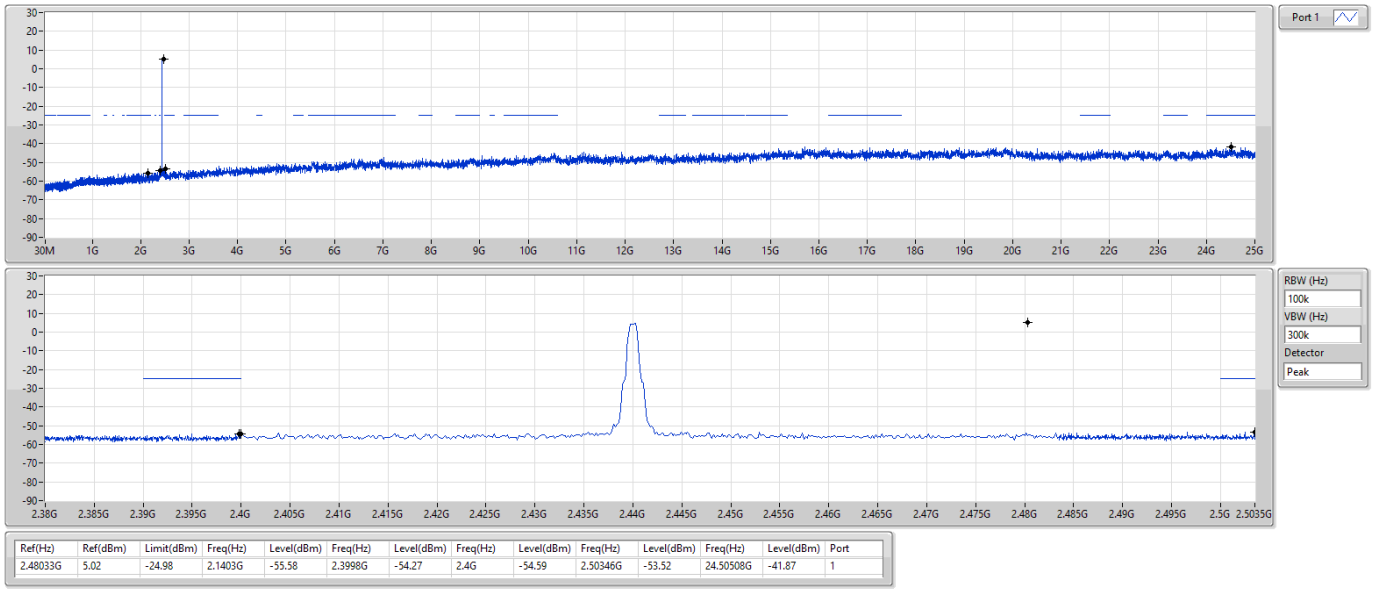
2402MHz



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
2.48033G	5.02	-24.98	1.9523G	-54.98	2.39956G	-45.38	2.4G	-42.81	2.50194G	-53.85	17.39056G	-42.22	1

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

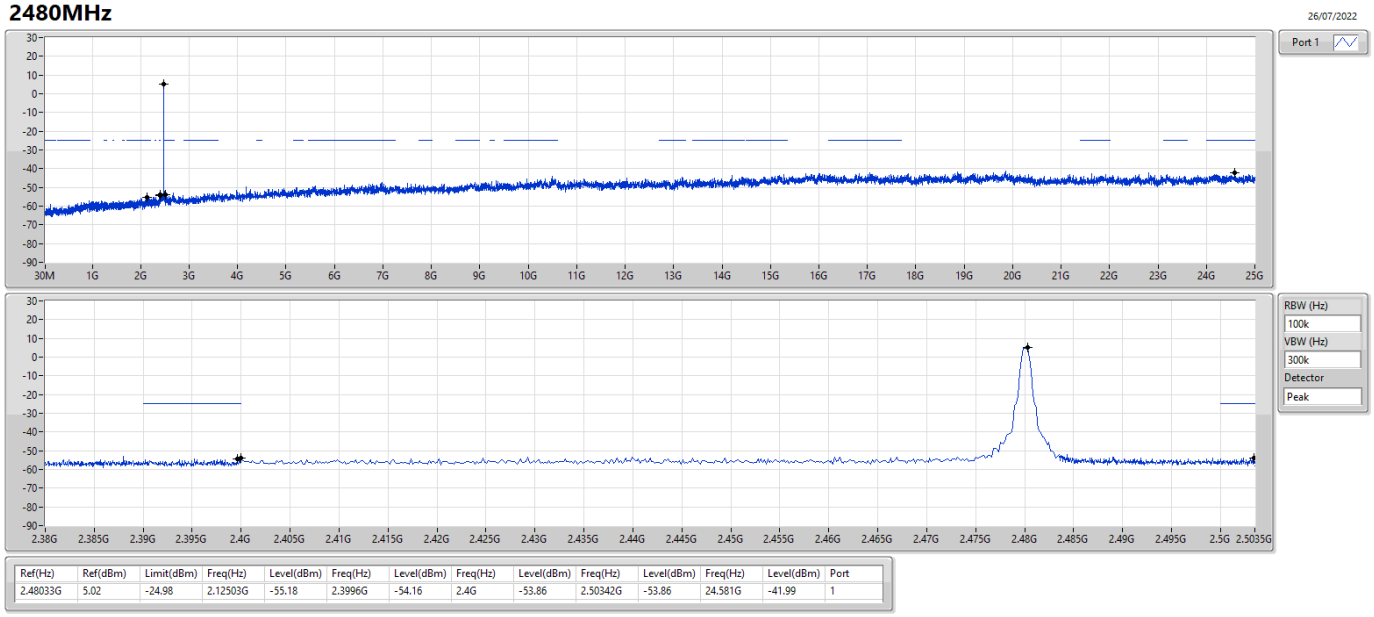
2440MHz



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
2.48033G	5.02	-24.98	2.1403G	-55.58	2.3998G	-54.27	2.4G	-54.59	2.50346G	-53.52	24.50508G	-41.87	1

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

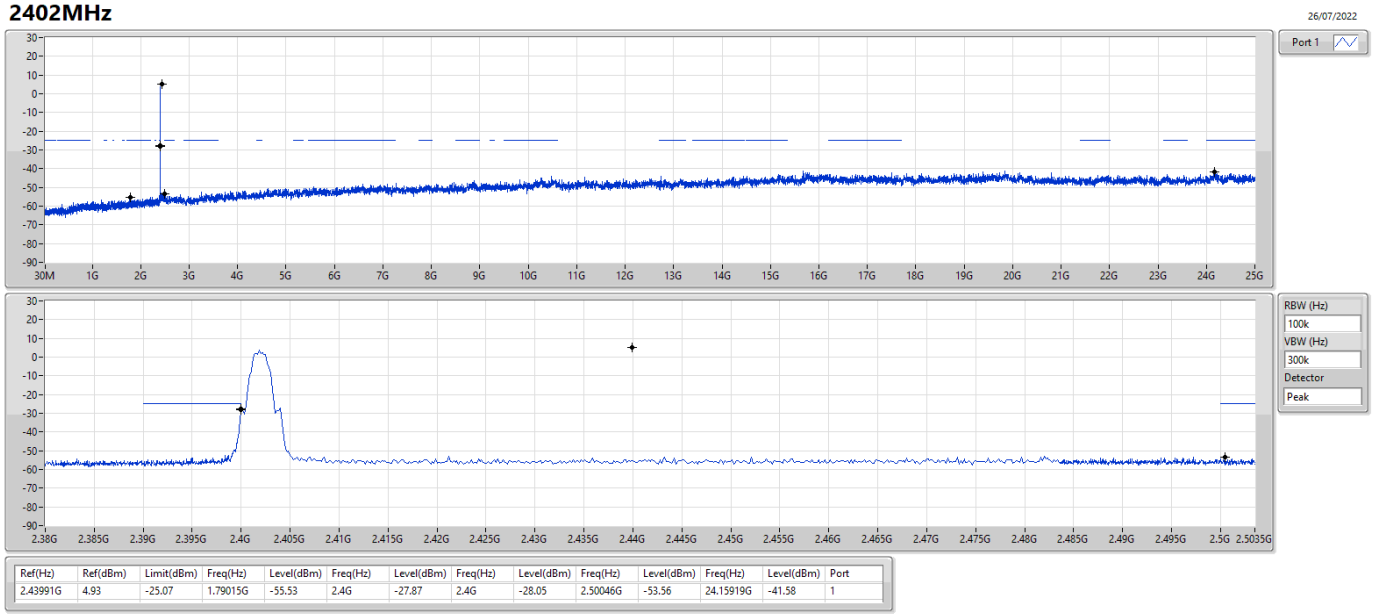
2480MHz



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	5.02	-24.98	2.12503G	-55.18	2.3996G	-54.16	2.4G	-53.86	2.50342G	-53.86	24.581G	-41.99	1

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

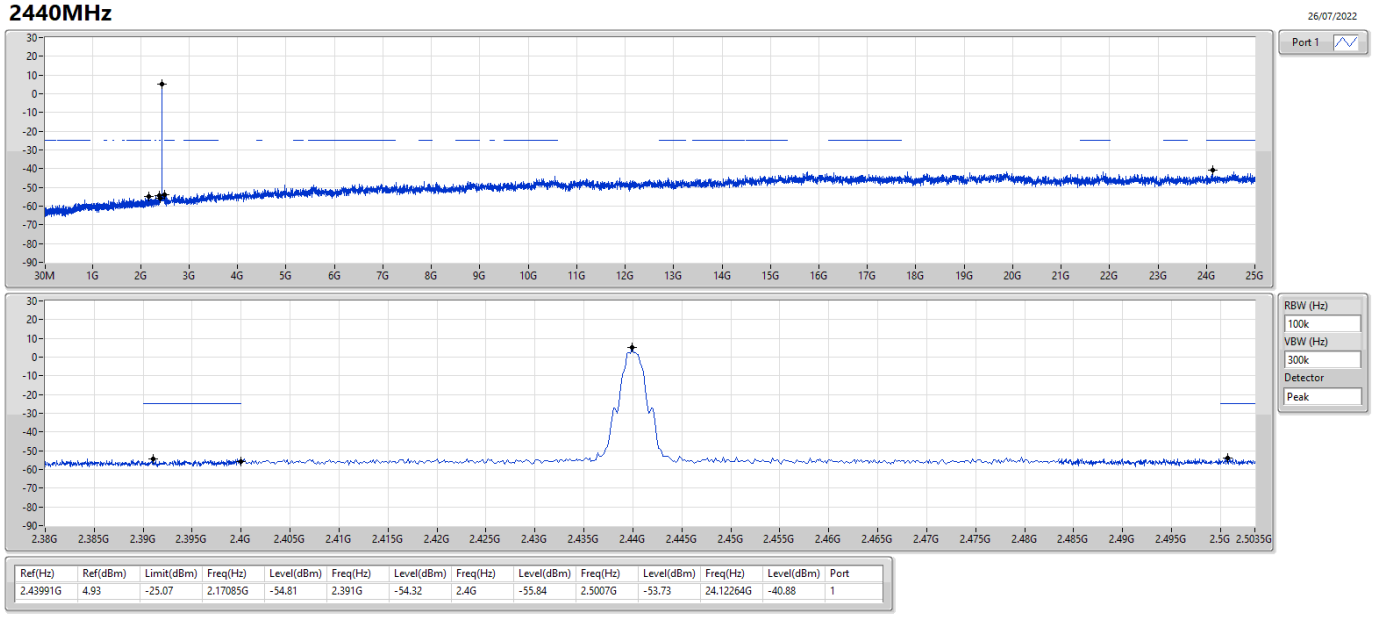
2402MHz



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
2.43991G	4.93	-25.07	1.79015G	-55.53	2.4G	-27.87	2.4G	-28.05	2.50046G	-53.56	24.15919G	-41.58	1

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

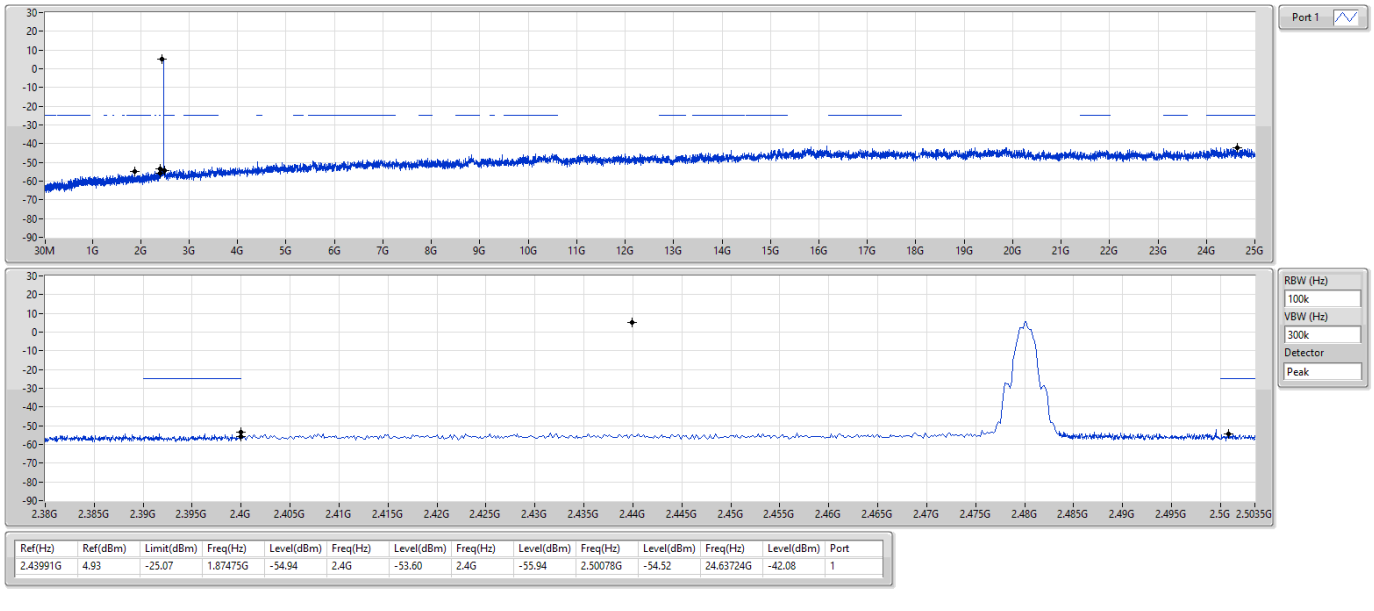
2440MHz



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
2.43991G	4.93	-25.07	2.17085G	-54.81	2.391G	-54.32	2.4G	-55.84	2.5007G	-53.73	24.12264G	-40.88	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
2.43991G	4.93	-25.07	1.87475G	-54.94	2.4G	-53.60	2.4G	-55.94	2.50078G	-54.52	24.63724G	-42.08	1

Summary

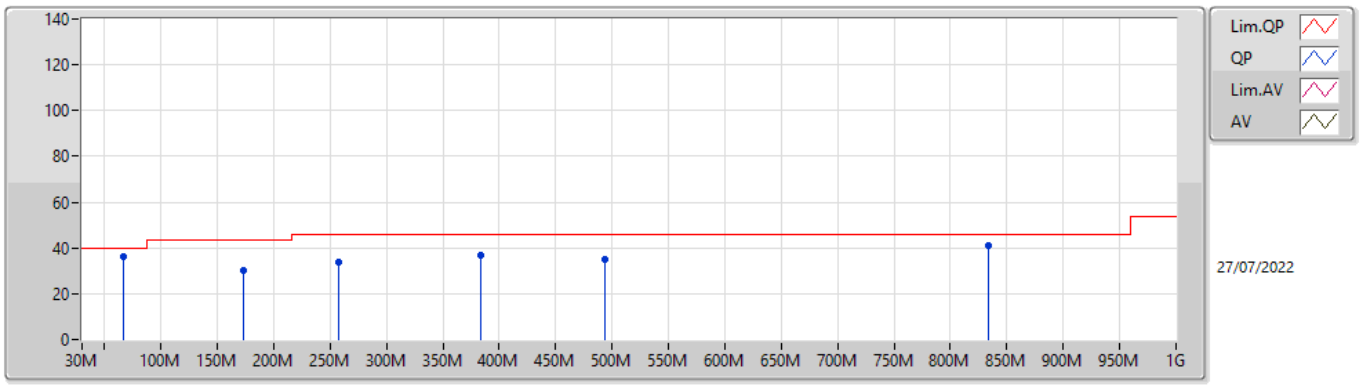
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	66.86M	36.36	40.00	-3.64	-14.60	3	Vertical	360	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	66.86M	36.36	40.00	-3.64	-14.60	3	Vertical	360	1.00	-
2440MHz	Pass	PK	173.56M	30.38	43.50	-13.12	-10.33	3	Vertical	360	1.00	-
2440MHz	Pass	PK	256.98M	33.73	46.00	-12.27	-5.65	3	Vertical	360	1.00	-
2440MHz	Pass	PK	383.08M	36.61	46.00	-9.39	-3.55	3	Vertical	360	1.00	-
2440MHz	Pass	PK	493.66M	35.30	46.00	-10.70	-1.32	3	Vertical	360	1.00	-
2440MHz	Pass	PK	833.16M	40.85	46.00	-5.15	2.90	3	Vertical	360	1.00	-
2440MHz	Pass	PK	64.92M	29.27	40.00	-10.73	-14.72	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	191.02M	25.55	43.50	-17.95	-10.53	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	383.08M	33.31	46.00	-12.69	-3.55	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	456.8M	35.04	46.00	-10.96	-1.66	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	648.86M	31.87	46.00	-14.13	0.35	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	842.86M	32.38	46.00	-13.62	3.02	3	Horizontal	0	1.00	-

BT-LE(2Mbps)

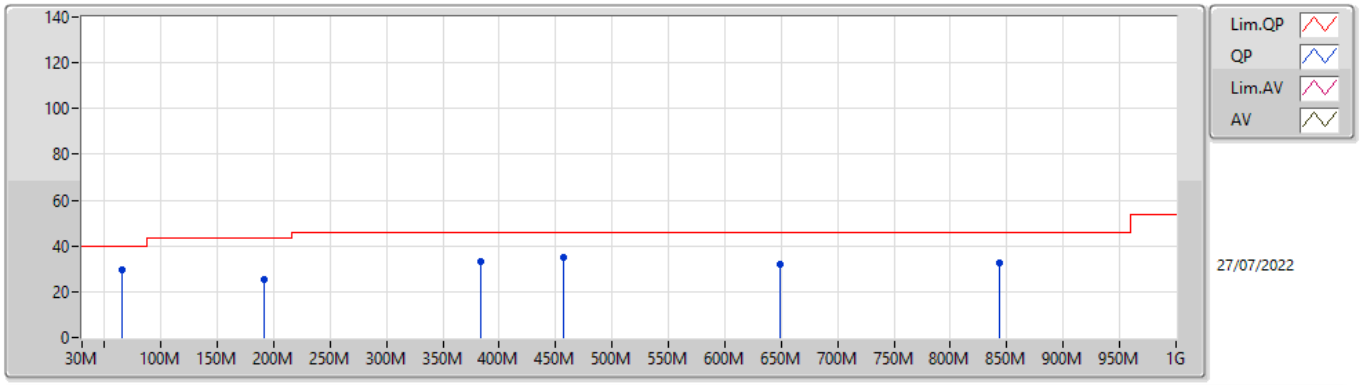
2440MHz_Test Fixture



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	66.86M	36.36	40.00	-3.64	-14.60	3	Vertical	360	1.00	-	50.96	11.54	1.32	27.46
PK	173.56M	30.38	43.50	-13.12	-10.33	3	Vertical	360	1.00	-	40.71	14.53	2.17	27.03
PK	256.98M	33.73	46.00	-12.27	-5.65	3	Vertical	360	1.00	-	39.38	18.35	2.67	26.67
PK	383.08M	36.61	46.00	-9.39	-3.55	3	Vertical	360	1.00	-	40.16	20.23	3.30	27.08
PK	493.66M	35.30	46.00	-10.70	-1.32	3	Vertical	360	1.00	-	36.62	22.64	3.78	27.74
PK	833.16M	40.85	46.00	-5.15	2.90	3	Vertical	360	1.00	-	37.95	25.44	5.05	27.59

BT-LE(2Mbps)

2440MHz_Test Fixture



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	64.92M	29.27	40.00	-10.73	-14.72	3	Horizontal	0	1.00	-	43.99	11.44	1.31	27.47
PK	191.02M	25.55	43.50	-17.95	-10.53	3	Horizontal	0	1.00	-	36.08	14.11	2.29	26.93
PK	383.08M	33.31	46.00	-12.69	-3.55	3	Horizontal	0	1.00	-	36.86	20.23	3.30	27.08
PK	456.8M	35.04	46.00	-10.96	-1.66	3	Horizontal	0	1.00	-	36.70	22.31	3.62	27.59
PK	648.86M	31.87	46.00	-14.13	0.35	3	Horizontal	0	1.00	-	31.52	23.99	4.39	28.03
PK	842.86M	32.38	46.00	-13.62	3.02	3	Horizontal	0	1.00	-	29.36	25.47	5.08	27.53

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	2.4946G	48.18	54.00	-5.82	3	Vertical	294	1.50	-
BT-LE(2Mbps)	Pass	AV	2.4838G	48.60	54.00	-5.40	3	Vertical	296	1.16	-

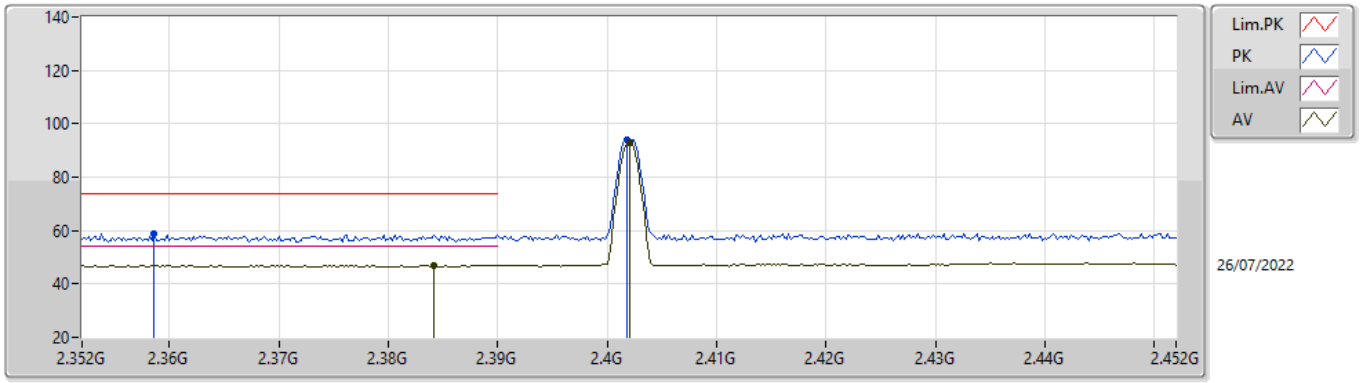
Result

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	2.3842G	47.12	54.00	-6.88	3	Vertical	237	1.21	-
2402MHz	Pass	AV	2.402G	92.94	Inf	-Inf	3	Vertical	237	1.21	-
2402MHz	Pass	PK	2.3586G	58.68	74.00	-15.32	3	Vertical	237	1.21	-
2402MHz	Pass	PK	2.4018G	93.95	Inf	-Inf	3	Vertical	237	1.21	-
2402MHz	Pass	AV	2.3812G	47.11	54.00	-6.89	3	Horizontal	187	1.15	-
2402MHz	Pass	AV	2.402G	94.69	Inf	-Inf	3	Horizontal	187	1.15	-
2402MHz	Pass	PK	2.383G	58.93	74.00	-15.07	3	Horizontal	187	1.15	-
2402MHz	Pass	PK	2.4022G	95.67	Inf	-Inf	3	Horizontal	187	1.15	-
2402MHz	Pass	AV	4.80198G	33.69	54.00	-20.31	3	Vertical	86	1.70	-
2402MHz	Pass	PK	4.8065G	46.60	74.00	-27.40	3	Vertical	86	1.70	-
2402MHz	Pass	AV	4.80562G	33.67	54.00	-20.33	3	Horizontal	323	1.37	-
2402MHz	Pass	PK	4.80488G	46.22	74.00	-27.78	3	Horizontal	323	1.37	-
2440MHz	Pass	AV	2.3868G	47.14	54.00	-6.86	3	Vertical	296	1.05	-
2440MHz	Pass	AV	2.44G	94.67	Inf	-Inf	3	Vertical	296	1.05	-
2440MHz	Pass	AV	2.4924G	48.16	54.00	-5.84	3	Vertical	296	1.05	-
2440MHz	Pass	PK	2.3836G	58.34	74.00	-15.66	3	Vertical	296	1.05	-
2440MHz	Pass	PK	2.4404G	95.63	Inf	-Inf	3	Vertical	296	1.05	-
2440MHz	Pass	PK	2.4888G	59.17	74.00	-14.83	3	Vertical	296	1.05	-
2440MHz	Pass	AV	2.39G	46.92	54.00	-7.08	3	Horizontal	194	1.76	-
2440MHz	Pass	AV	2.44G	96.15	Inf	-Inf	3	Horizontal	194	1.76	-
2440MHz	Pass	AV	2.5G	47.95	54.00	-6.05	3	Horizontal	194	1.76	-
2440MHz	Pass	PK	2.346G	58.43	74.00	-15.57	3	Horizontal	194	1.76	-
2440MHz	Pass	PK	2.4396G	97.11	Inf	-Inf	3	Horizontal	194	1.76	-
2440MHz	Pass	PK	2.4908G	59.03	74.00	-14.97	3	Horizontal	194	1.76	-
2440MHz	Pass	AV	4.87925G	33.66	54.00	-20.34	3	Vertical	212	2.10	-
2440MHz	Pass	PK	4.88102G	46.32	74.00	-27.68	3	Vertical	212	2.10	-
2440MHz	Pass	AV	4.88237G	33.80	54.00	-20.20	3	Horizontal	202	1.51	-
2440MHz	Pass	PK	4.88231G	45.92	74.00	-28.08	3	Horizontal	202	1.51	-
2480MHz	Pass	AV	2.48G	92.90	Inf	-Inf	3	Vertical	294	1.50	-
2480MHz	Pass	AV	2.4946G	48.18	54.00	-5.82	3	Vertical	294	1.50	-
2480MHz	Pass	PK	2.4798G	93.92	Inf	-Inf	3	Vertical	294	1.50	-
2480MHz	Pass	PK	2.4892G	59.78	74.00	-14.22	3	Vertical	294	1.50	-
2480MHz	Pass	AV	2.48G	94.66	Inf	-Inf	3	Horizontal	196	1.63	-
2480MHz	Pass	AV	2.4936G	48.17	54.00	-5.83	3	Horizontal	196	1.63	-
2480MHz	Pass	PK	2.48G	95.71	Inf	-Inf	3	Horizontal	196	1.63	-
2480MHz	Pass	PK	2.4946G	59.87	74.00	-14.13	3	Horizontal	196	1.63	-
2480MHz	Pass	AV	4.96247G	34.34	54.00	-19.66	3	Vertical	29	1.44	-
2480MHz	Pass	PK	4.96012G	47.38	74.00	-26.62	3	Vertical	29	1.44	-
2480MHz	Pass	AV	4.95839G	34.48	54.00	-19.52	3	Horizontal	61	1.29	-
2480MHz	Pass	PK	4.95827G	46.54	74.00	-27.46	3	Horizontal	61	1.29	-
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3818G	47.11	54.00	-6.89	3	Vertical	237	1.22	-
2402MHz	Pass	AV	2.402G	90.81	Inf	-Inf	3	Vertical	237	1.22	-
2402MHz	Pass	PK	2.3622G	59.42	74.00	-14.58	3	Vertical	237	1.22	-
2402MHz	Pass	PK	2.4016G	93.47	Inf	-Inf	3	Vertical	237	1.22	-
2402MHz	Pass	AV	2.3892G	47.16	54.00	-6.84	3	Horizontal	187	1.14	-
2402MHz	Pass	AV	2.402G	92.72	Inf	-Inf	3	Horizontal	187	1.14	-
2402MHz	Pass	PK	2.357G	58.74	74.00	-15.26	3	Horizontal	187	1.14	-
2402MHz	Pass	PK	2.4024G	95.41	Inf	-Inf	3	Horizontal	187	1.14	-
2402MHz	Pass	AV	4.80452G	33.68	54.00	-20.32	3	Vertical	294	2.95	-
2402MHz	Pass	PK	4.80547G	45.85	74.00	-28.15	3	Vertical	294	2.95	-
2402MHz	Pass	AV	4.80325G	33.80	54.00	-20.20	3	Horizontal	190	1.11	-
2402MHz	Pass	PK	4.80604G	45.47	74.00	-28.53	3	Horizontal	190	1.11	-
2440MHz	Pass	AV	2.3764G	47.10	54.00	-6.90	3	Vertical	297	1.05	-
2440MHz	Pass	AV	2.44G	92.69	Inf	-Inf	3	Vertical	297	1.05	-
2440MHz	Pass	AV	2.496G	47.93	54.00	-6.07	3	Vertical	297	1.05	-
2440MHz	Pass	PK	2.3564G	58.80	74.00	-15.20	3	Vertical	297	1.05	-
2440MHz	Pass	PK	2.4396G	95.26	Inf	-Inf	3	Vertical	297	1.05	-
2440MHz	Pass	PK	2.4896G	59.45	74.00	-14.55	3	Vertical	297	1.05	-
2440MHz	Pass	AV	2.3464G	47.32	54.00	-6.68	3	Horizontal	176	1.12	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2440MHz	Pass	AV	2.44G	91.82	Inf	-Inf	3	Horizontal	176	1.12	-
2440MHz	Pass	AV	2.4976G	47.94	54.00	-6.06	3	Horizontal	176	1.12	-
2440MHz	Pass	PK	2.3896G	59.60	74.00	-14.40	3	Horizontal	176	1.12	-
2440MHz	Pass	PK	2.44G	94.49	Inf	-Inf	3	Horizontal	176	1.12	-
2440MHz	Pass	PK	2.4968G	59.06	74.00	-14.94	3	Horizontal	176	1.12	-
2440MHz	Pass	AV	4.87988G	33.66	54.00	-20.34	3	Vertical	46	1.76	-
2440MHz	Pass	PK	4.87972G	46.05	74.00	-27.95	3	Vertical	46	1.76	-
2440MHz	Pass	AV	4.88061G	33.91	54.00	-20.09	3	Horizontal	47	2.13	-
2440MHz	Pass	PK	4.88114G	45.76	74.00	-28.24	3	Horizontal	47	2.13	-
2480MHz	Pass	AV	2.48G	91.81	Inf	-Inf	3	Vertical	296	1.16	-
2480MHz	Pass	AV	2.4838G	48.60	54.00	-5.40	3	Vertical	296	1.16	-
2480MHz	Pass	PK	2.4794G	94.46	Inf	-Inf	3	Vertical	296	1.16	-
2480MHz	Pass	PK	2.4842G	60.38	74.00	-13.62	3	Vertical	296	1.16	-
2480MHz	Pass	AV	2.48G	92.75	Inf	-Inf	3	Horizontal	195	1.63	-
2480MHz	Pass	AV	2.4835G	48.60	54.00	-5.40	3	Horizontal	195	1.63	-
2480MHz	Pass	PK	2.4794G	95.46	Inf	-Inf	3	Horizontal	195	1.63	-
2480MHz	Pass	PK	2.4842G	62.17	74.00	-11.83	3	Horizontal	195	1.63	-
2480MHz	Pass	AV	4.95968G	34.37	54.00	-19.63	3	Vertical	337	1.79	-
2480MHz	Pass	PK	4.95846G	46.82	74.00	-27.18	3	Vertical	337	1.79	-
2480MHz	Pass	AV	4.96078G	34.48	54.00	-19.52	3	Horizontal	0	1.59	-
2480MHz	Pass	PK	4.96175G	46.14	74.00	-27.86	3	Horizontal	0	1.59	-

BT-LE(1Mbps)

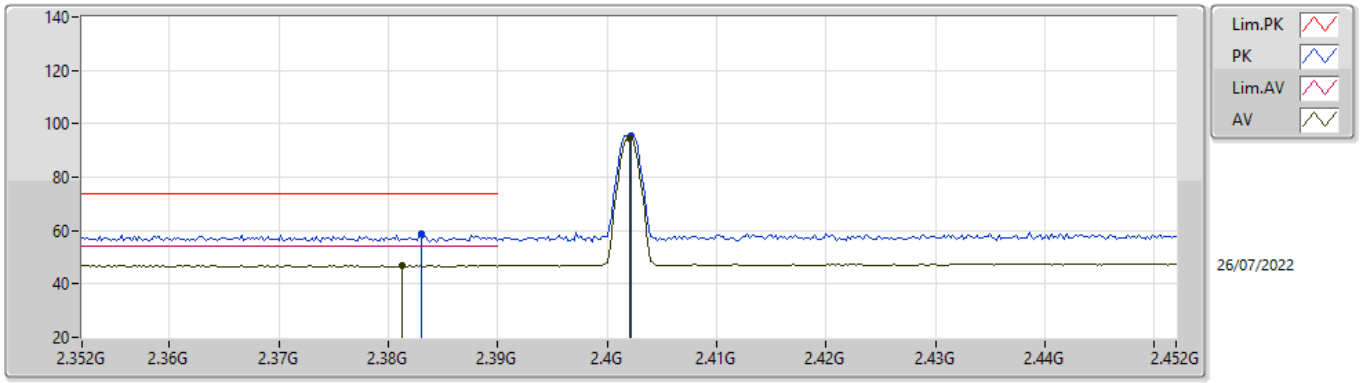
2402MHz_TX



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	2.3842G	47.12	54.00	-6.88	31.73	3	Vertical	237	1.21	-	15.39	27.37	4.36	-
AV	2.402G	92.94	Inf	-Inf	31.79	3	Vertical	237	1.21	-	61.15	27.41	4.38	-
PK	2.3586G	58.68	74.00	-15.32	31.66	3	Vertical	237	1.21	-	27.02	27.32	4.34	-
PK	2.4018G	93.95	Inf	-Inf	31.79	3	Vertical	237	1.21	-	62.16	27.41	4.38	-

BT-LE(1Mbps)

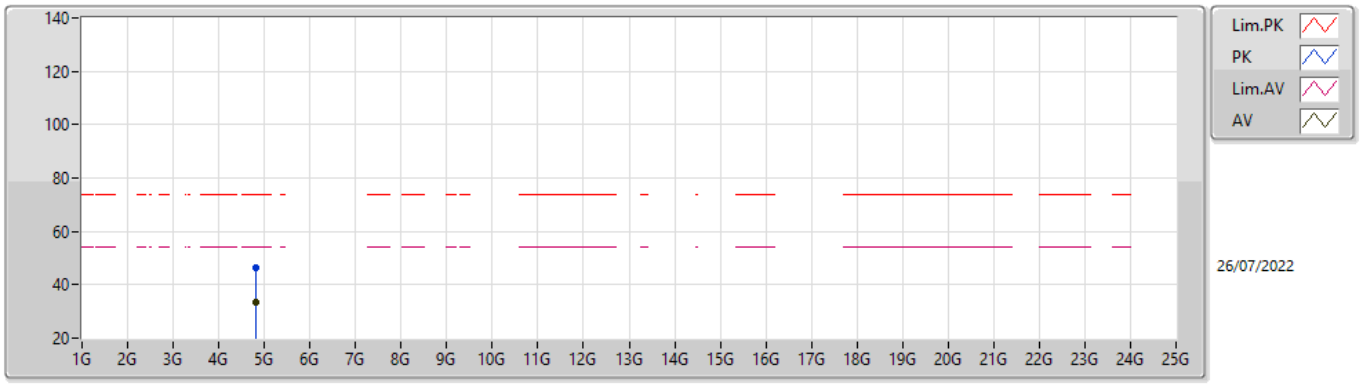
2402MHz_TX



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	2.3812G	47.11	54.00	-6.89	31.72	3	Horizontal	187	1.15	-	15.39	27.36	4.36	-
AV	2.402G	94.69	Inf	-Inf	31.79	3	Horizontal	187	1.15	-	62.90	27.41	4.38	-
PK	2.383G	58.93	74.00	-15.07	31.73	3	Horizontal	187	1.15	-	27.20	27.37	4.36	-
PK	2.4022G	95.67	Inf	-Inf	31.79	3	Horizontal	187	1.15	-	63.88	27.41	4.38	-

BT-LE(1Mbps)

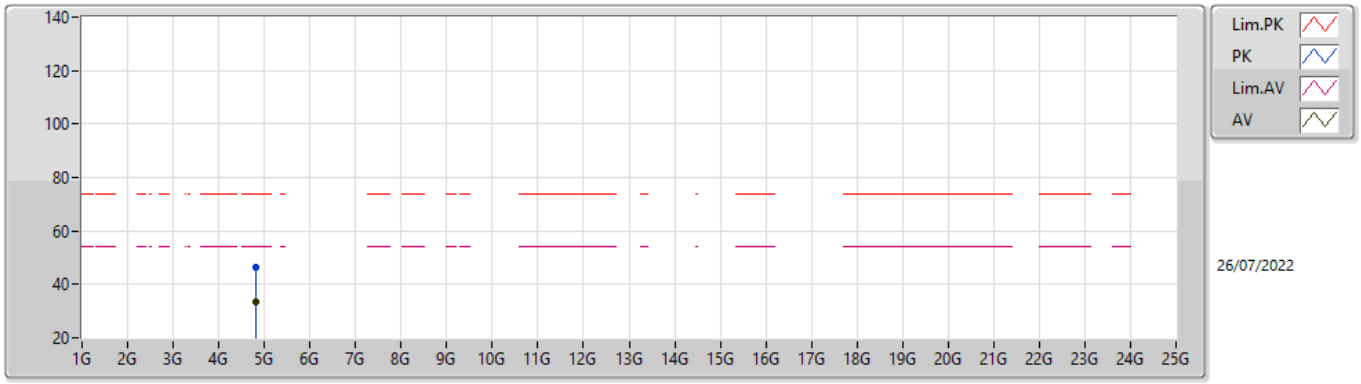
2402MHz_TX



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	4.80198G	33.69	54.00	-20.31	8.74	3	Vertical	86	1.70	-	24.95	32.51	6.26	30.03
PK	4.8065G	46.60	74.00	-27.40	8.76	3	Vertical	86	1.70	-	37.84	32.53	6.26	30.03

BT-LE(1Mbps)

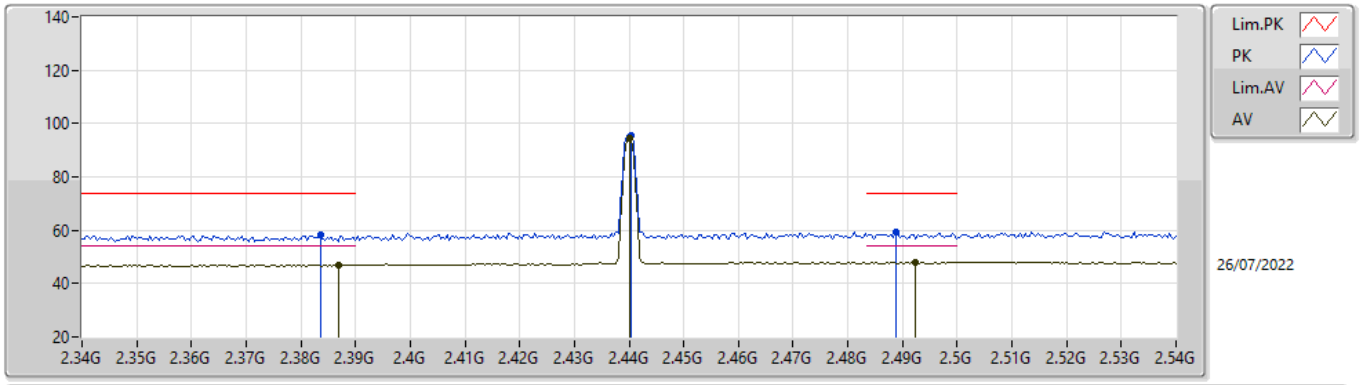
2402MHz_TX



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	4.80562G	33.67	54.00	-20.33	8.75	3	Horizontal	323	1.37	-	24.92	32.52	6.26	30.03
PK	4.80488G	46.22	74.00	-27.78	8.75	3	Horizontal	323	1.37	-	37.47	32.52	6.26	30.03

BT-LE(1Mbps)

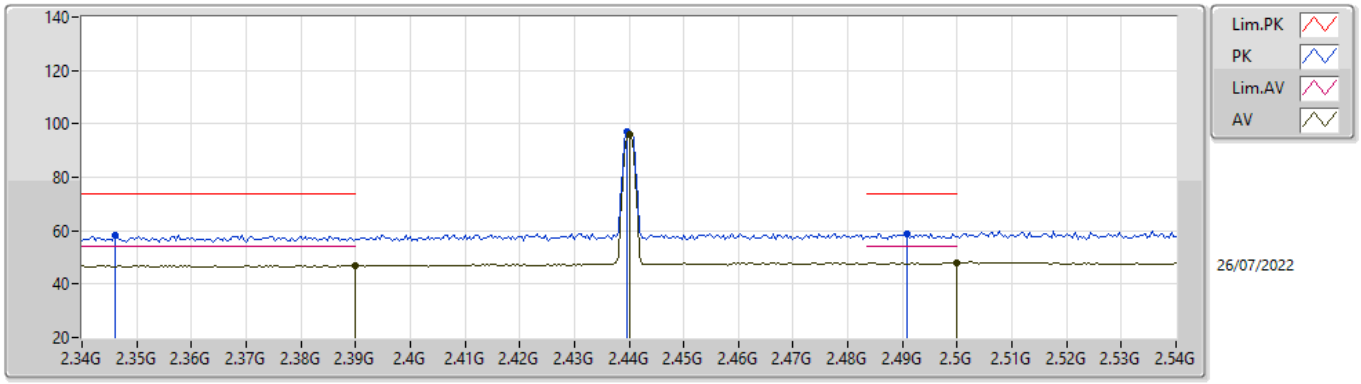
2440MHz_TX



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	2.3868G	47.14	54.00	-6.86	31.74	3	Vertical	296	1.05	-	15.40	27.37	4.37	-
AV	2.44G	94.67	Inf	-Inf	32.00	3	Vertical	296	1.05	-	62.67	27.56	4.44	-
AV	2.4924G	48.16	54.00	-5.84	32.36	3	Vertical	296	1.05	-	15.80	27.85	4.51	-
PK	2.3836G	58.34	74.00	-15.66	31.73	3	Vertical	296	1.05	-	26.61	27.37	4.36	-
PK	2.4404G	95.63	Inf	-Inf	32.00	3	Vertical	296	1.05	-	63.63	27.56	4.44	-
PK	2.4888G	59.17	74.00	-14.83	32.34	3	Vertical	296	1.05	-	26.83	27.83	4.51	-

BT-LE(1Mbps)

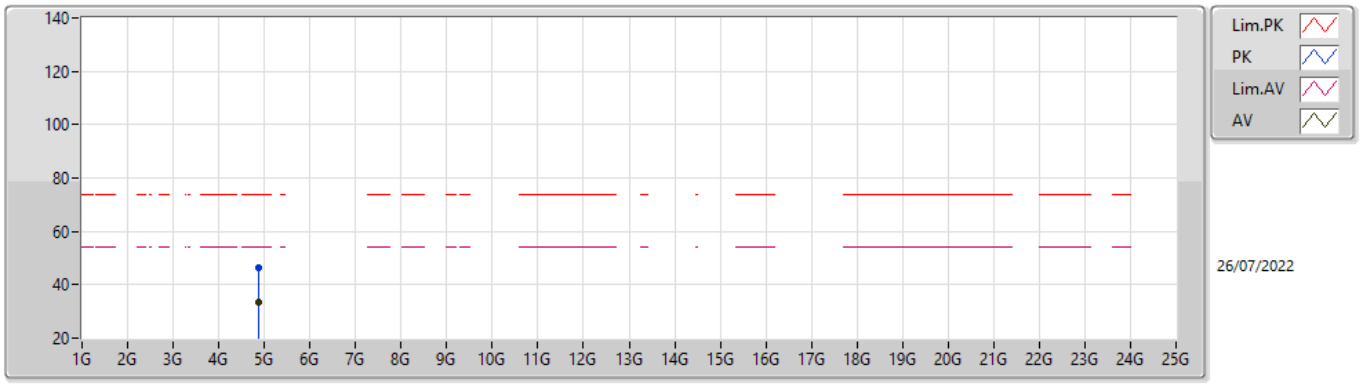
2440MHz_TX



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	2.39G	46.92	54.00	-7.08	31.75	3	Horizontal	194	1.76	-	15.17	27.38	4.37	-
AV	2.44G	96.15	Inf	-Inf	32.00	3	Horizontal	194	1.76	-	64.15	27.56	4.44	-
AV	2.5G	47.95	54.00	-6.05	32.43	3	Horizontal	194	1.76	-	15.52	27.90	4.53	-
PK	2.346G	58.43	74.00	-15.57	31.60	3	Horizontal	194	1.76	-	26.83	27.28	4.32	-
PK	2.4396G	97.11	Inf	-Inf	32.00	3	Horizontal	194	1.76	-	65.11	27.56	4.44	-
PK	2.4908G	59.03	74.00	-14.97	32.35	3	Horizontal	194	1.76	-	26.68	27.84	4.51	-

BT-LE(1Mbps)

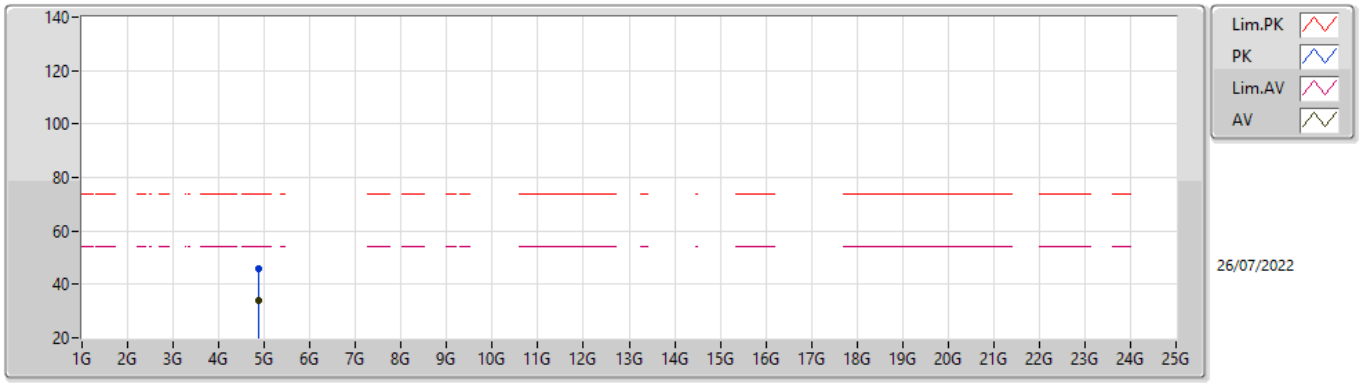
2440MHz_TX



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	4.87925G	33.66	54.00	-20.34	9.07	3	Vertical	212	2.10	-	24.59	32.76	6.31	30.00
PK	4.88102G	46.32	74.00	-27.68	9.07	3	Vertical	212	2.10	-	37.25	32.76	6.31	30.00

BT-LE(1Mbps)

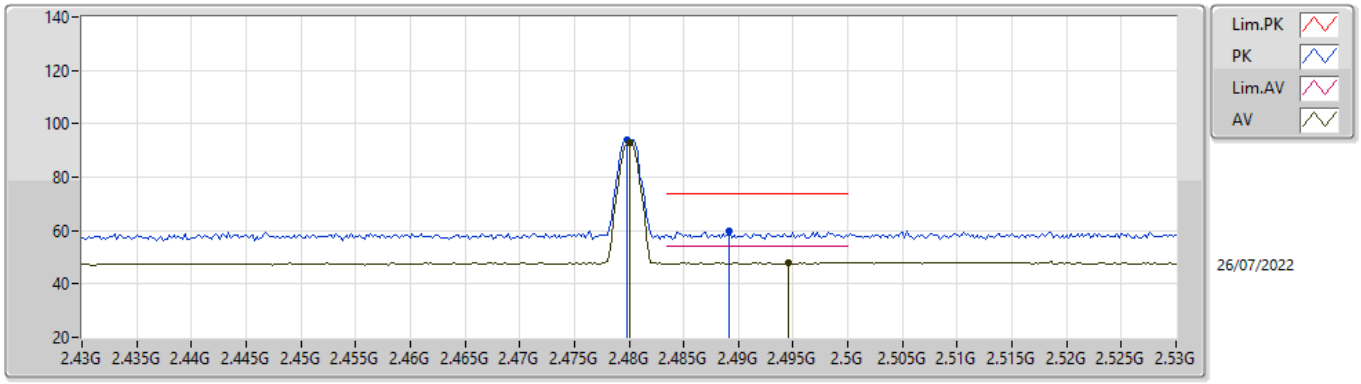
2440MHz_TX



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	4.88237G	33.80	54.00	-20.20	9.07	3	Horizontal	202	1.51	-	24.73	32.76	6.31	30.00
PK	4.88231G	45.92	74.00	-28.08	9.07	3	Horizontal	202	1.51	-	36.85	32.76	6.31	30.00

BT-LE(1Mbps)

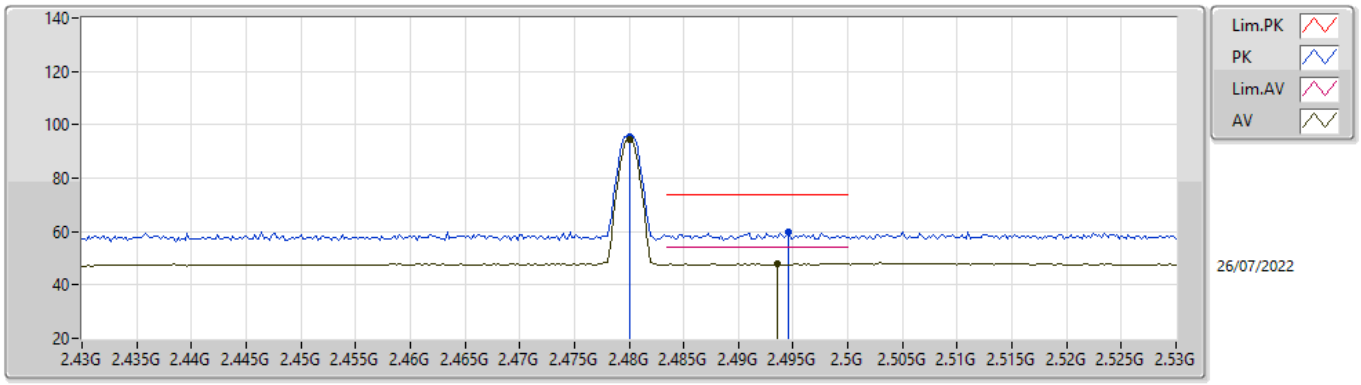
2480MHz_TX



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	92.90	Inf	-Inf	32.28	3	Vertical	294	1.50	-	60.62	27.78	4.50	-
AV	2.4946G	48.18	54.00	-5.82	32.39	3	Vertical	294	1.50	-	15.79	27.87	4.52	-
PK	2.4798G	93.92	Inf	-Inf	32.28	3	Vertical	294	1.50	-	61.64	27.78	4.50	-
PK	2.4892G	59.78	74.00	-14.22	32.35	3	Vertical	294	1.50	-	27.43	27.84	4.51	-

BT-LE(1Mbps)

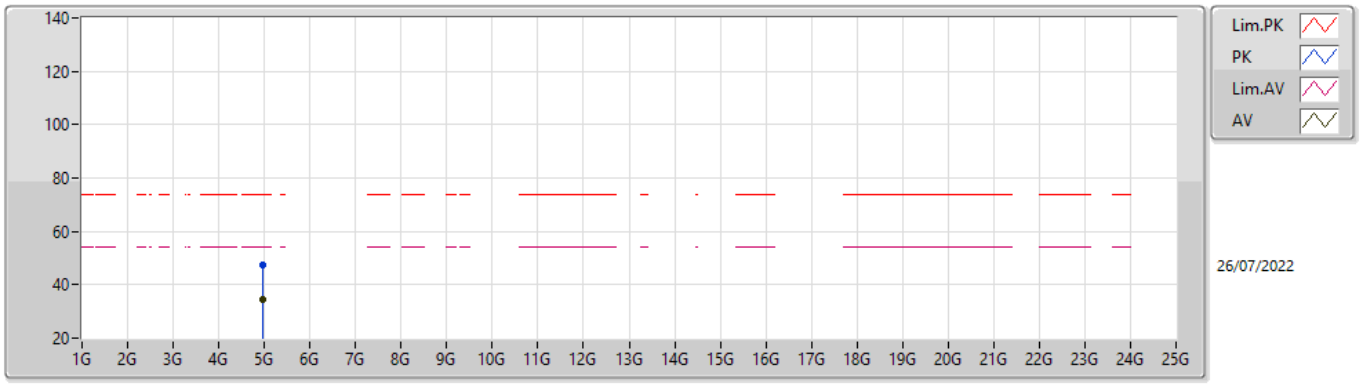
2480MHz_TX



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	94.66	Inf	-Inf	32.28	3	Horizontal	196	1.63	-	62.38	27.78	4.50	-
AV	2.4936G	48.17	54.00	-5.83	32.38	3	Horizontal	196	1.63	-	15.79	27.86	4.52	-
PK	2.48G	95.71	Inf	-Inf	32.28	3	Horizontal	196	1.63	-	63.43	27.78	4.50	-
PK	2.4946G	59.87	74.00	-14.13	32.39	3	Horizontal	196	1.63	-	27.48	27.87	4.52	-

BT-LE(1Mbps)

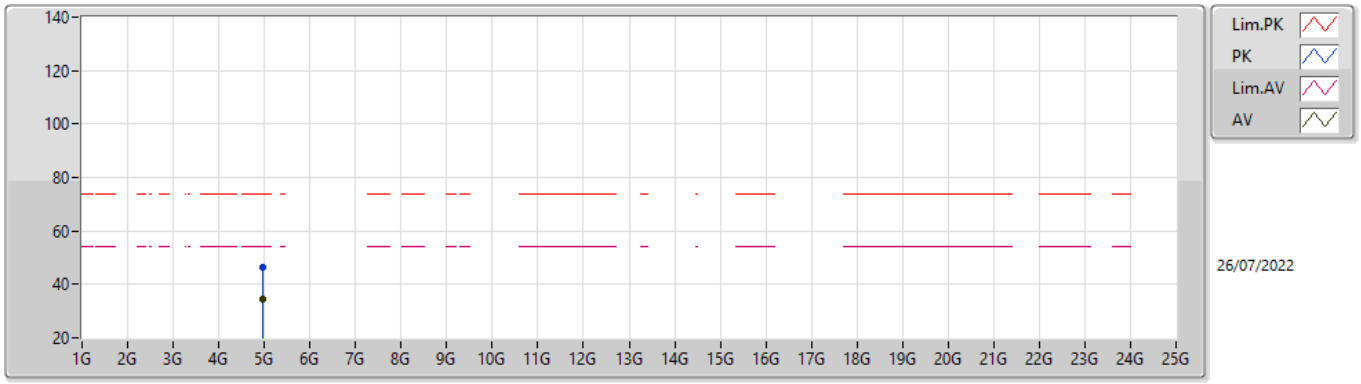
2480MHz_TX



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	4.96247G	34.34	54.00	-19.66	9.54	3	Vertical	29	1.44	-	24.80	33.15	6.36	29.97
PK	4.96012G	47.38	74.00	-26.62	9.53	3	Vertical	29	1.44	-	37.85	33.14	6.36	29.97

BT-LE(1Mbps)

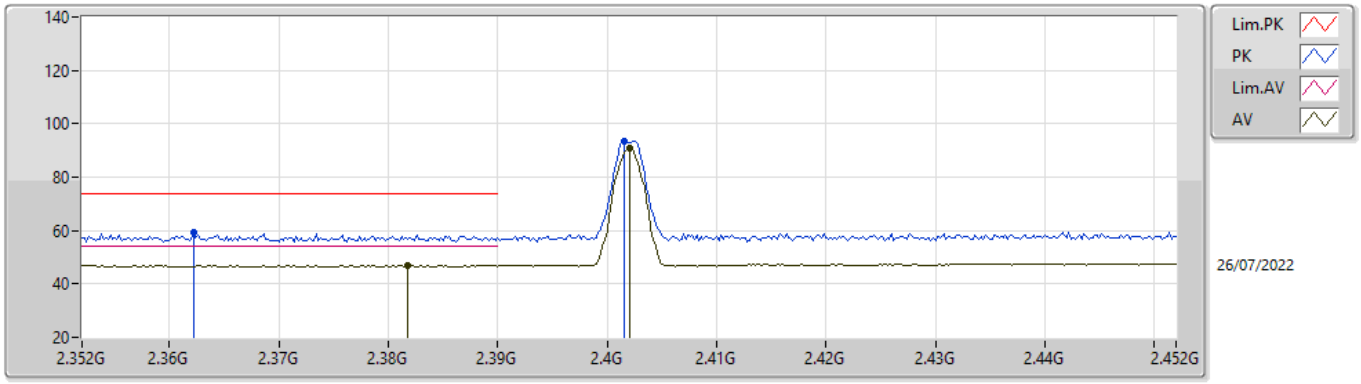
2480MHz_TX



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	4.95839G	34.48	54.00	-19.52	9.52	3	Horizontal	61	1.29	-	24.96	33.13	6.36	29.97
PK	4.95827G	46.54	74.00	-27.46	9.51	3	Horizontal	61	1.29	-	37.03	33.13	6.35	29.97

BT-LE(2Mbps)

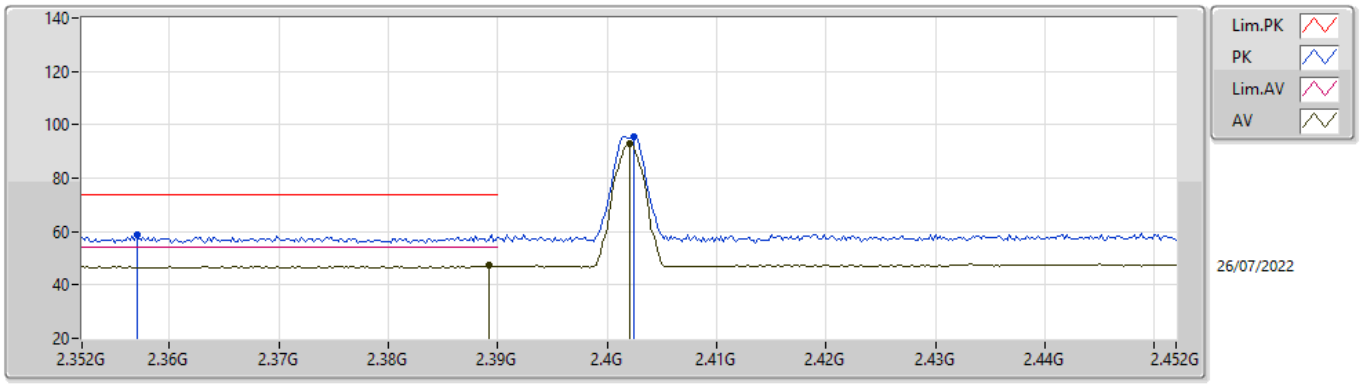
2402MHz_TX



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	2.3818G	47.11	54.00	-6.89	31.72	3	Vertical	237	1.22	-	15.39	27.36	4.36	-
AV	2.402G	90.81	Inf	-Inf	31.79	3	Vertical	237	1.22	-	59.02	27.41	4.38	-
PK	2.3622G	59.42	74.00	-14.58	31.66	3	Vertical	237	1.22	-	27.76	27.32	4.34	-
PK	2.4016G	93.47	Inf	-Inf	31.79	3	Vertical	237	1.22	-	61.68	27.41	4.38	-

BT-LE(2Mbps)

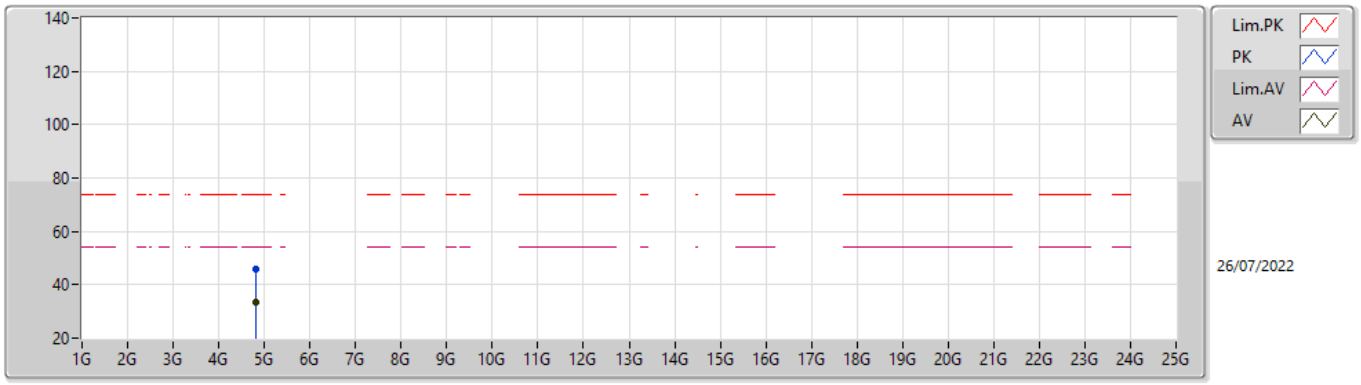
2402MHz_TX



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	2.3892G	47.16	54.00	-6.84	31.75	3	Horizontal	187	1.14	-	15.41	27.38	4.37	-
AV	2.402G	92.72	Inf	-Inf	31.79	3	Horizontal	187	1.14	-	60.93	27.41	4.38	-
PK	2.357G	58.74	74.00	-15.26	31.64	3	Horizontal	187	1.14	-	27.10	27.31	4.33	-
PK	2.4024G	95.41	Inf	-Inf	31.79	3	Horizontal	187	1.14	-	63.62	27.41	4.38	-

BT-LE(2Mbps)

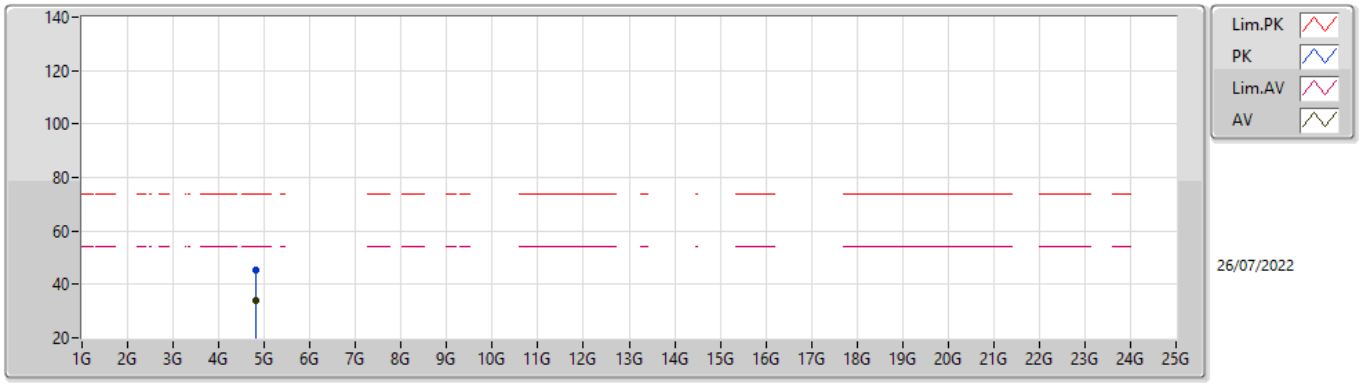
2402MHz_TX



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	4.80452G	33.68	54.00	-20.32	8.75	3	Vertical	294	2.95	-	24.93	32.52	6.26	30.03
PK	4.80547G	45.85	74.00	-28.15	8.75	3	Vertical	294	2.95	-	37.10	32.52	6.26	30.03

BT-LE(2Mbps)

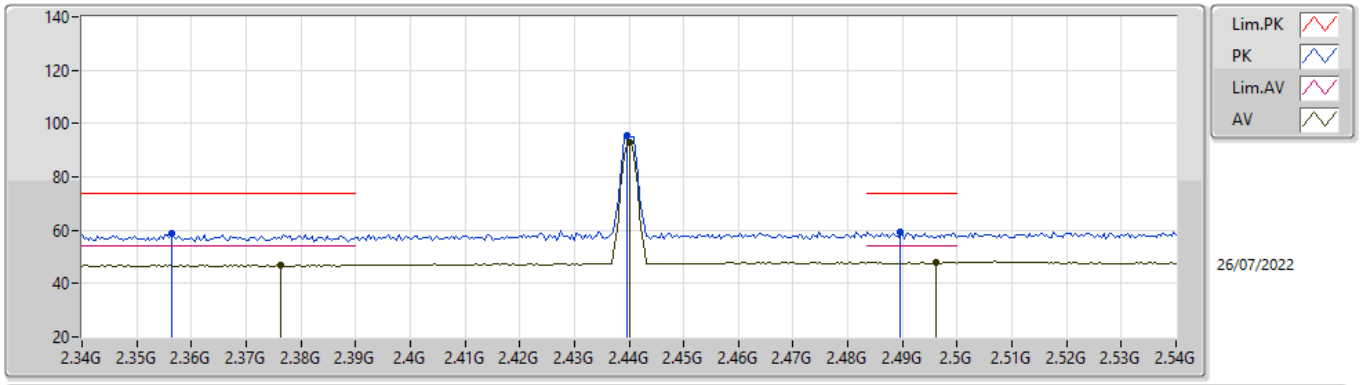
2402MHz_TX



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	4.80325G	33.80	54.00	-20.20	8.74	3	Horizontal	190	1.11	-	25.06	32.51	6.26	30.03
PK	4.80604G	45.47	74.00	-28.53	8.75	3	Horizontal	190	1.11	-	36.72	32.52	6.26	30.03

BT-LE(2Mbps)

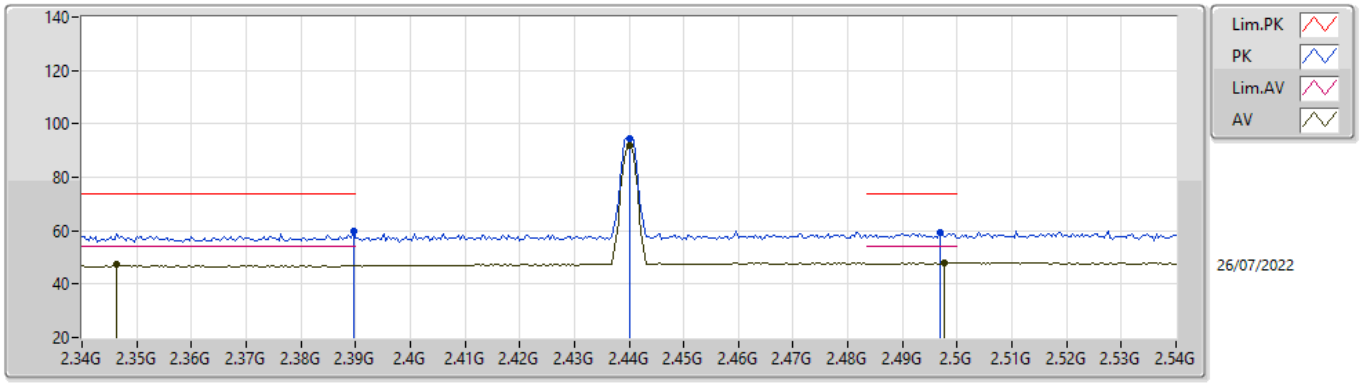
2440MHz_TX



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	2.3764G	47.10	54.00	-6.90	31.71	3	Vertical	297	1.05	-	15.39	27.35	4.36	-
AV	2.44G	92.69	Inf	-Inf	32.00	3	Vertical	297	1.05	-	60.69	27.56	4.44	-
AV	2.496G	47.93	54.00	-6.07	32.40	3	Vertical	297	1.05	-	15.53	27.88	4.52	-
PK	2.3564G	58.80	74.00	-15.20	31.64	3	Vertical	297	1.05	-	27.16	27.31	4.33	-
PK	2.4396G	95.26	Inf	-Inf	32.00	3	Vertical	297	1.05	-	63.26	27.56	4.44	-
PK	2.4896G	59.45	74.00	-14.55	32.35	3	Vertical	297	1.05	-	27.10	27.84	4.51	-

BT-LE(2Mbps)

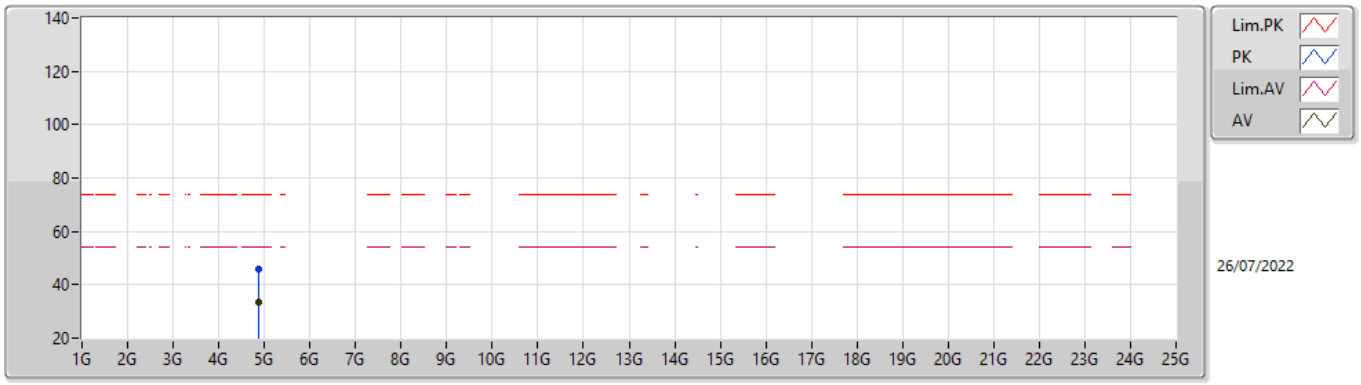
2440MHz_TX



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	2.3464G	47.32	54.00	-6.68	31.61	3	Horizontal	176	1.12	-	15.71	27.29	4.32	-
AV	2.44G	91.82	Inf	-Inf	32.00	3	Horizontal	176	1.12	-	59.82	27.56	4.44	-
AV	2.4976G	47.94	54.00	-6.06	32.41	3	Horizontal	176	1.12	-	15.53	27.89	4.52	-
PK	2.3896G	59.60	74.00	-14.40	31.75	3	Horizontal	176	1.12	-	27.85	27.38	4.37	-
PK	2.44G	94.49	Inf	-Inf	32.00	3	Horizontal	176	1.12	-	62.49	27.56	4.44	-
PK	2.4968G	59.06	74.00	-14.94	32.40	3	Horizontal	176	1.12	-	26.66	27.88	4.52	-

BT-LE(2Mbps)

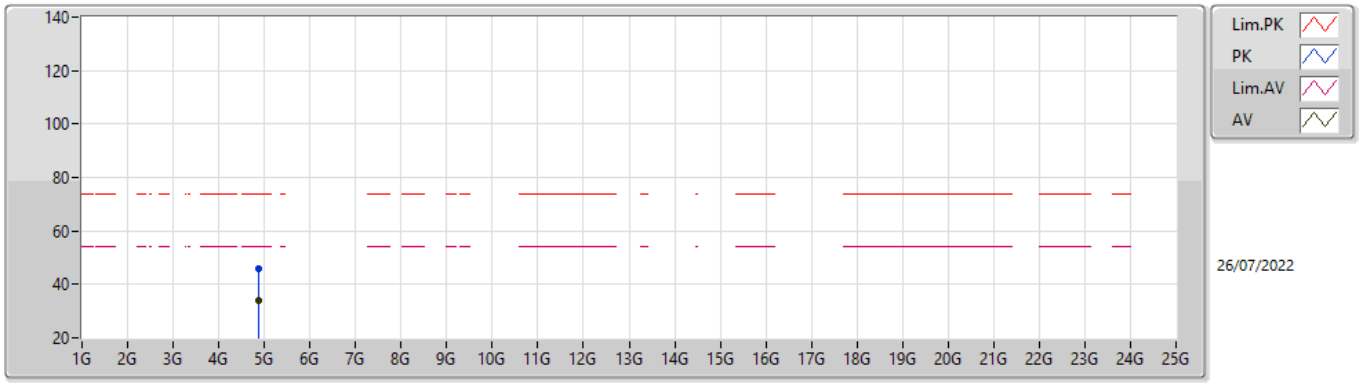
2440MHz_TX



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	4.87988G	33.66	54.00	-20.34	9.07	3	Vertical	46	1.76	-	24.59	32.76	6.31	30.00
PK	4.87972G	46.05	74.00	-27.95	9.07	3	Vertical	46	1.76	-	36.98	32.76	6.31	30.00

BT-LE(2Mbps)

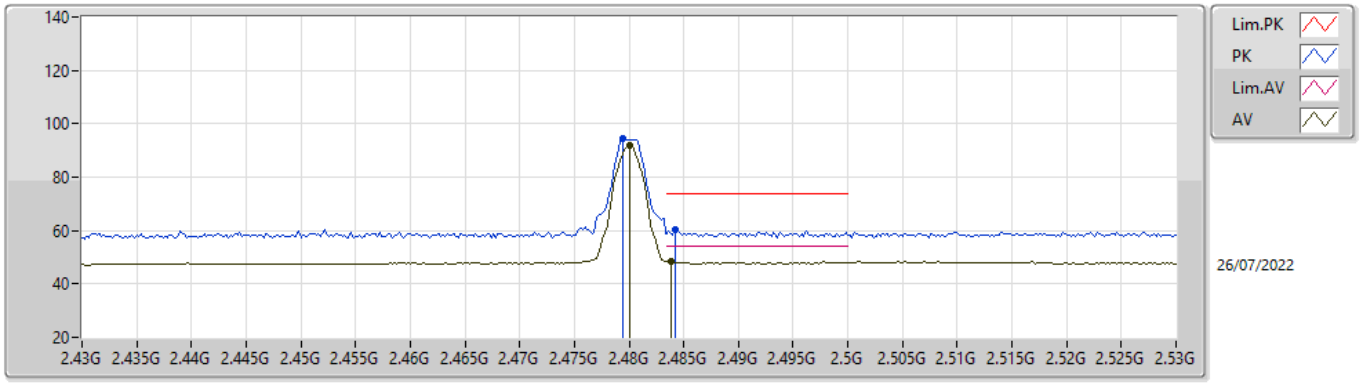
2440MHz_TX



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	4.88061G	33.91	54.00	-20.09	9.07	3	Horizontal	47	2.13	-	24.84	32.76	6.31	30.00
PK	4.88114G	45.76	74.00	-28.24	9.07	3	Horizontal	47	2.13	-	36.69	32.76	6.31	30.00

BT-LE(2Mbps)

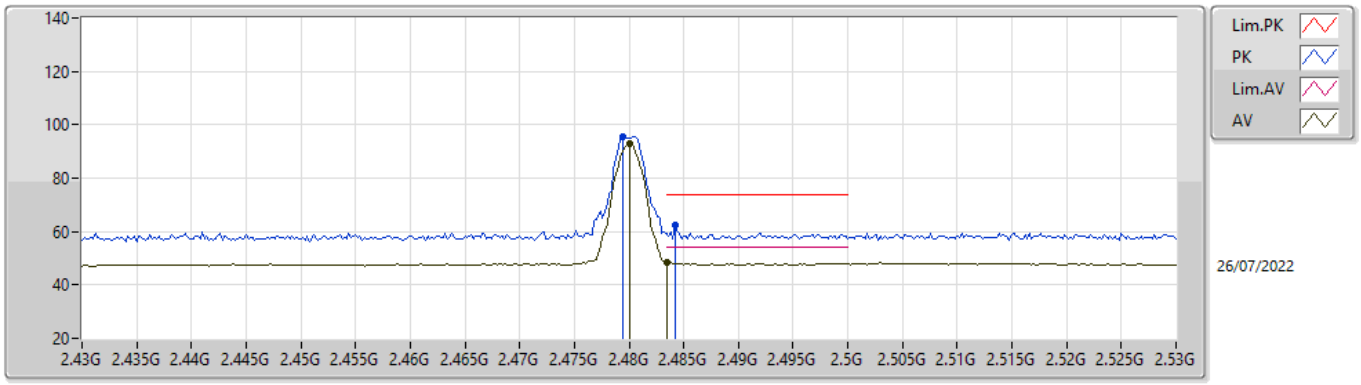
2480MHz_TX



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	91.81	Inf	-Inf	32.28	3	Vertical	296	1.16	-	59.53	27.78	4.50	-
AV	2.4838G	48.60	54.00	-5.40	32.30	3	Vertical	296	1.16	-	16.30	27.80	4.50	-
PK	2.4794G	94.46	Inf	-Inf	32.28	3	Vertical	296	1.16	-	62.18	27.78	4.50	-
PK	2.4842G	60.38	74.00	-13.62	32.31	3	Vertical	296	1.16	-	28.07	27.81	4.50	-

BT-LE(2Mbps)

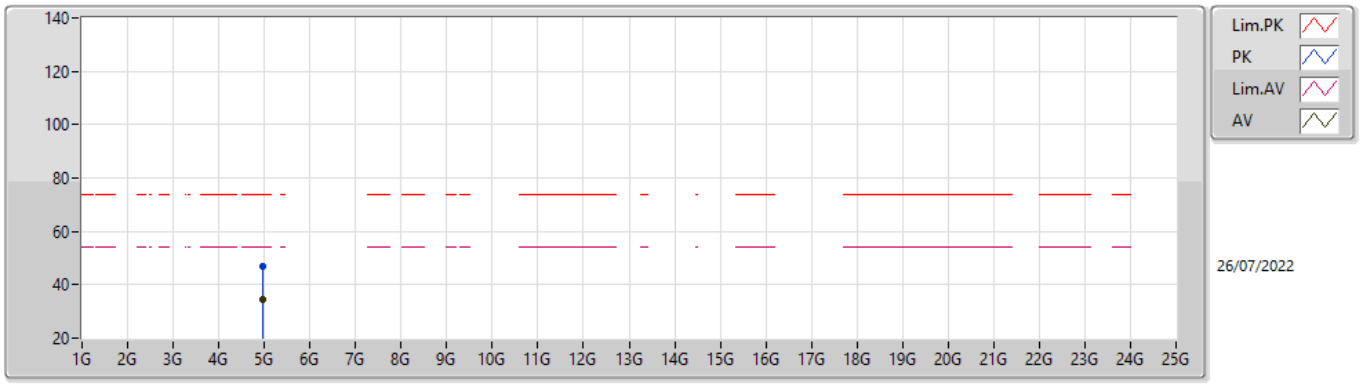
2480MHz_TX



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	92.75	Inf	-Inf	32.28	3	Horizontal	195	1.63	-	60.47	27.78	4.50	-
AV	2.4835G	48.60	54.00	-5.40	32.30	3	Horizontal	195	1.63	-	16.30	27.80	4.50	-
PK	2.4794G	95.46	Inf	-Inf	32.28	3	Horizontal	195	1.63	-	63.18	27.78	4.50	-
PK	2.4842G	62.17	74.00	-11.83	32.31	3	Horizontal	195	1.63	-	29.86	27.81	4.50	-

BT-LE(2Mbps)

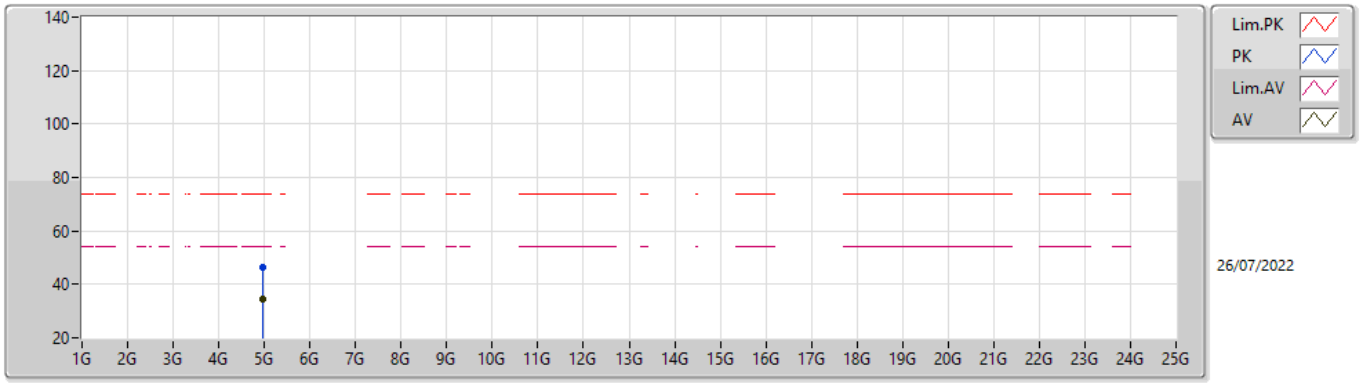
2480MHz_TX



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	4.95968G	34.37	54.00	-19.63	9.53	3	Vertical	337	1.79	-	24.84	33.14	6.36	29.97
PK	4.95846G	46.82	74.00	-27.18	9.52	3	Vertical	337	1.79	-	37.30	33.13	6.36	29.97

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	4.96078G	34.48	54.00	-19.52	9.53	3	Horizontal	0	1.59	-	24.95	33.14	6.36	29.97
PK	4.96175G	46.14	74.00	-27.86	9.54	3	Horizontal	0	1.59	-	36.60	33.15	6.36	29.97

Summary

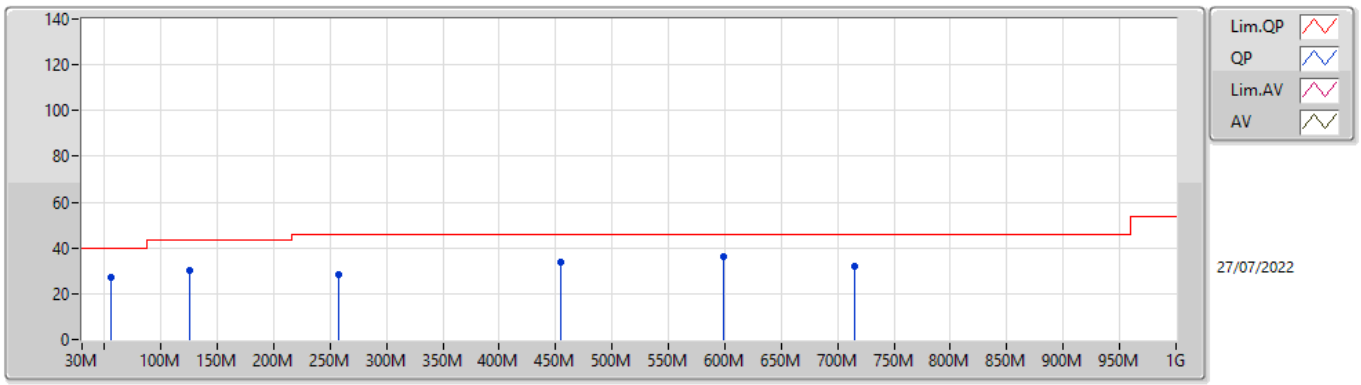
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	456.8M	38.20	46.00	-7.80	-1.66	3	Horizontal	360	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	55.22M	27.19	40.00	-12.81	-14.19	3	Vertical	0	1.00	-
2440MHz	Pass	PK	125.06M	30.19	43.50	-13.31	-8.12	3	Vertical	0	1.00	-
2440MHz	Pass	PK	256.98M	28.16	46.00	-17.84	-5.65	3	Vertical	0	1.00	-
2440MHz	Pass	PK	454.86M	33.69	46.00	-12.31	-1.72	3	Vertical	0	1.00	-
2440MHz	Pass	PK	598.42M	36.16	46.00	-9.84	0.00	3	Vertical	0	1.00	-
2440MHz	Pass	PK	714.82M	31.83	46.00	-14.17	1.17	3	Vertical	0	1.00	-
2440MHz	Pass	PK	30M	21.36	40.00	-18.64	-2.94	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	167.74M	34.28	43.50	-9.22	-10.15	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	255.04M	32.14	46.00	-13.86	-5.89	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	385.02M	32.75	46.00	-13.25	-3.48	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	456.8M	38.20	46.00	-7.80	-1.66	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	551.86M	34.92	46.00	-11.08	0.25	3	Horizontal	360	1.00	-

BT-LE(2Mbps)

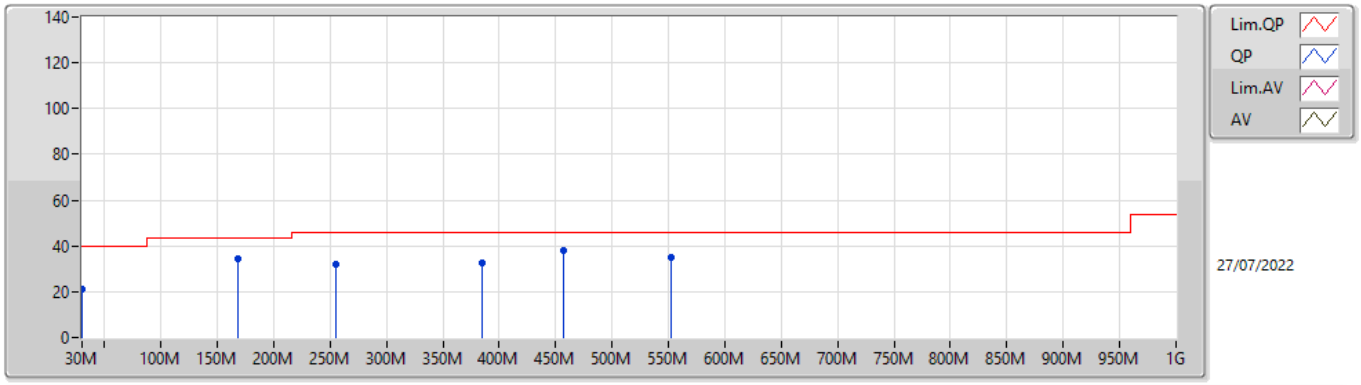
2440MHz_Test Fixture



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	55.22M	27.19	40.00	-12.81	-14.19	3	Vertical	0	1.00	-	41.38	12.11	1.20	27.50
PK	125.06M	30.19	43.50	-13.31	-8.12	3	Vertical	0	1.00	-	38.31	17.30	1.84	27.26
PK	256.98M	28.16	46.00	-17.84	-5.65	3	Vertical	0	1.00	-	33.81	18.35	2.67	26.67
PK	454.86M	33.69	46.00	-12.31	-1.72	3	Vertical	0	1.00	-	35.41	22.25	3.61	27.58
PK	598.42M	36.16	46.00	-9.84	0.00	3	Vertical	0	1.00	-	36.16	23.75	4.20	27.95
PK	714.82M	31.83	46.00	-14.17	1.17	3	Vertical	0	1.00	-	30.66	24.40	4.61	27.84

BT-LE(2Mbps)

2440MHz_Test Fixture



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	30M	21.36	40.00	-18.64	-2.94	3	Horizontal	360	1.00	-	24.30	23.76	0.88	27.58
PK	167.74M	34.28	43.50	-9.22	-10.15	3	Horizontal	360	1.00	-	44.43	14.78	2.13	27.06
PK	255.04M	32.14	46.00	-13.86	-5.89	3	Horizontal	360	1.00	-	38.03	18.12	2.66	26.67
PK	385.02M	32.75	46.00	-13.25	-3.48	3	Horizontal	360	1.00	-	36.23	20.30	3.31	27.09
PK	456.8M	38.20	46.00	-7.80	-1.66	3	Horizontal	360	1.00	-	39.86	22.31	3.62	27.59
PK	551.86M	34.92	46.00	-11.08	0.25	3	Horizontal	360	1.00	-	34.67	24.26	3.98	27.99

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	2.4842G	48.38	54.00	-5.62	3	Horizontal	20	1.44	-
BT-LE(2Mbps)	Pass	AV	2.4835G	48.84	54.00	-5.16	3	Horizontal	19	1.44	-

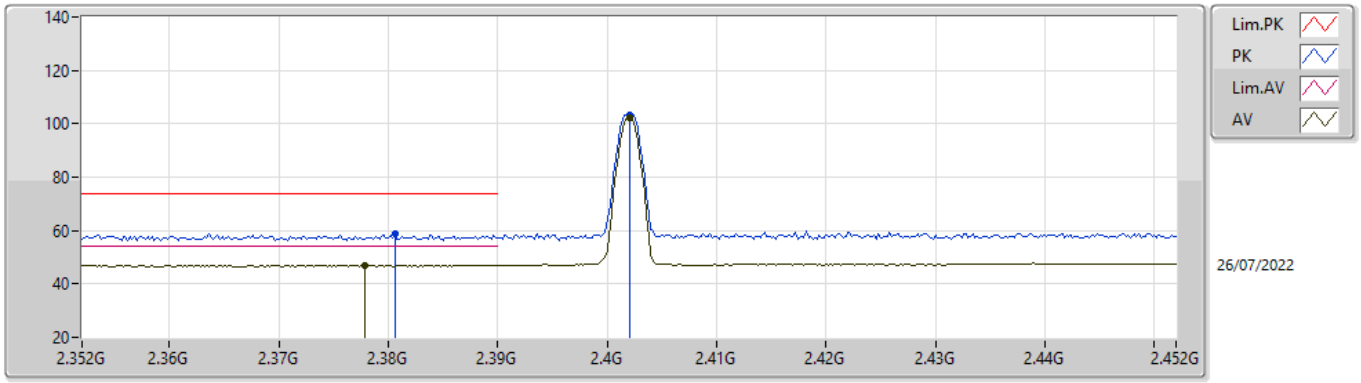
Result

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	2.3778G	47.11	54.00	-6.89	3	Vertical	101	2.52	-
2402MHz	Pass	AV	2.402G	102.43	Inf	-Inf	3	Vertical	101	2.52	-
2402MHz	Pass	PK	2.3806G	58.79	74.00	-15.21	3	Vertical	101	2.52	-
2402MHz	Pass	PK	2.402G	103.35	Inf	-Inf	3	Vertical	101	2.52	-
2402MHz	Pass	AV	2.3864G	47.14	54.00	-6.86	3	Horizontal	176	2.10	-
2402MHz	Pass	AV	2.402G	104.39	Inf	-Inf	3	Horizontal	176	2.10	-
2402MHz	Pass	PK	2.3676G	58.70	74.00	-15.30	3	Horizontal	176	2.10	-
2402MHz	Pass	PK	2.402G	105.32	Inf	-Inf	3	Horizontal	176	2.10	-
2402MHz	Pass	AV	4.8464G	34.13	54.00	-19.87	3	Vertical	153	2.67	-
2402MHz	Pass	PK	4.8246G	46.60	74.00	-27.40	3	Vertical	153	2.67	-
2402MHz	Pass	AV	4.8446G	34.12	54.00	-19.88	3	Horizontal	356	1.84	-
2402MHz	Pass	PK	4.7984G	46.23	74.00	-27.77	3	Horizontal	356	1.84	-
2440MHz	Pass	AV	2.384G	47.36	54.00	-6.64	3	Vertical	111	2.74	-
2440MHz	Pass	AV	2.44G	100.79	Inf	-Inf	3	Vertical	111	2.74	-
2440MHz	Pass	AV	2.486G	48.14	54.00	-5.86	3	Vertical	111	2.74	-
2440MHz	Pass	PK	2.378G	58.73	74.00	-15.27	3	Vertical	111	2.74	-
2440MHz	Pass	PK	2.4396G	101.70	Inf	-Inf	3	Vertical	111	2.74	-
2440MHz	Pass	PK	2.4936G	59.40	74.00	-14.60	3	Vertical	111	2.74	-
2440MHz	Pass	AV	2.3792G	47.11	54.00	-6.89	3	Horizontal	19	1.76	-
2440MHz	Pass	AV	2.44G	104.41	Inf	-Inf	3	Horizontal	19	1.76	-
2440MHz	Pass	AV	2.49G	48.16	54.00	-5.84	3	Horizontal	19	1.76	-
2440MHz	Pass	PK	2.3676G	58.96	74.00	-15.04	3	Horizontal	19	1.76	-
2440MHz	Pass	PK	2.4396G	105.32	Inf	-Inf	3	Horizontal	19	1.76	-
2440MHz	Pass	PK	2.4992G	59.82	74.00	-14.18	3	Horizontal	19	1.76	-
2440MHz	Pass	AV	4.9244G	34.65	54.00	-19.35	3	Vertical	62	2.48	-
2440MHz	Pass	PK	4.9132G	46.35	74.00	-27.65	3	Vertical	62	2.48	-
2440MHz	Pass	AV	4.9242G	34.65	54.00	-19.35	3	Horizontal	111	2.23	-
2440MHz	Pass	PK	4.8712G	47.03	74.00	-26.97	3	Horizontal	111	2.23	-
2480MHz	Pass	AV	2.48G	92.68	Inf	-Inf	3	Vertical	156	2.27	-
2480MHz	Pass	AV	2.4936G	48.17	54.00	-5.83	3	Vertical	156	2.27	-
2480MHz	Pass	PK	2.48G	93.71	Inf	-Inf	3	Vertical	156	2.27	-
2480MHz	Pass	PK	2.4902G	60.46	74.00	-13.54	3	Vertical	156	2.27	-
2480MHz	Pass	AV	2.48G	103.89	Inf	-Inf	3	Horizontal	20	1.44	-
2480MHz	Pass	AV	2.4842G	48.38	54.00	-5.62	3	Horizontal	20	1.44	-
2480MHz	Pass	PK	2.4798G	104.80	Inf	-Inf	3	Horizontal	20	1.44	-
2480MHz	Pass	PK	2.4978G	59.68	74.00	-14.32	3	Horizontal	20	1.44	-
2480MHz	Pass	AV	4.977G	34.94	54.00	-19.06	3	Vertical	237	1.34	-
2480MHz	Pass	PK	4.9452G	47.15	74.00	-26.85	3	Vertical	237	1.34	-
2480MHz	Pass	AV	5.0088G	35.10	54.00	-18.90	3	Horizontal	125	2.99	-
2480MHz	Pass	PK	5.0002G	46.99	74.00	-27.01	3	Horizontal	125	2.99	-
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3808G	47.11	54.00	-6.89	3	Vertical	101	2.52	-
2402MHz	Pass	AV	2.402G	100.81	Inf	-Inf	3	Vertical	101	2.52	-
2402MHz	Pass	PK	2.3642G	58.75	74.00	-15.25	3	Vertical	101	2.52	-
2402MHz	Pass	PK	2.4016G	103.35	Inf	-Inf	3	Vertical	101	2.52	-
2402MHz	Pass	AV	2.3874G	47.14	54.00	-6.86	3	Horizontal	177	2.09	-
2402MHz	Pass	AV	2.402G	102.75	Inf	-Inf	3	Horizontal	177	2.09	-
2402MHz	Pass	PK	2.3648G	59.25	74.00	-14.75	3	Horizontal	177	2.09	-
2402MHz	Pass	PK	2.402G	105.37	Inf	-Inf	3	Horizontal	177	2.09	-
2402MHz	Pass	AV	4.844G	34.00	54.00	-20.00	3	Vertical	154	2.45	-
2402MHz	Pass	PK	4.852G	45.67	74.00	-28.33	3	Vertical	154	2.45	-
2402MHz	Pass	AV	4.8494G	34.04	54.00	-19.96	3	Horizontal	192	2.90	-
2402MHz	Pass	PK	4.8432G	46.33	74.00	-27.67	3	Horizontal	192	2.90	-
2440MHz	Pass	AV	2.3836G	47.12	54.00	-6.88	3	Vertical	110	2.75	-
2440MHz	Pass	AV	2.44G	99.14	Inf	-Inf	3	Vertical	110	2.75	-
2440MHz	Pass	AV	2.498G	47.94	54.00	-6.06	3	Vertical	110	2.75	-
2440MHz	Pass	PK	2.3876G	58.84	74.00	-15.16	3	Vertical	110	2.75	-
2440MHz	Pass	PK	2.4396G	101.77	Inf	-Inf	3	Vertical	110	2.75	-
2440MHz	Pass	PK	2.4848G	59.56	74.00	-14.44	3	Vertical	110	2.75	-
2440MHz	Pass	AV	2.3484G	47.08	54.00	-6.92	3	Horizontal	18	1.76	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2440MHz	Pass	AV	2.44G	102.87	Inf	-Inf	3	Horizontal	18	1.76	-
2440MHz	Pass	AV	2.5G	47.95	54.00	-6.05	3	Horizontal	18	1.76	-
2440MHz	Pass	PK	2.3724G	58.57	74.00	-15.43	3	Horizontal	18	1.76	-
2440MHz	Pass	PK	2.44G	105.49	Inf	-Inf	3	Horizontal	18	1.76	-
2440MHz	Pass	PK	2.4984G	59.75	74.00	-14.25	3	Horizontal	18	1.76	-
2440MHz	Pass	AV	4.9246G	34.65	54.00	-19.35	3	Vertical	66	2.12	-
2440MHz	Pass	PK	4.8876G	47.22	74.00	-26.78	3	Vertical	66	2.12	-
2440MHz	Pass	AV	4.9104G	34.65	54.00	-19.35	3	Horizontal	6	2.21	-
2440MHz	Pass	PK	4.9086G	46.85	74.00	-27.15	3	Horizontal	6	2.21	-
2480MHz	Pass	AV	2.48G	90.98	Inf	-Inf	3	Vertical	156	2.27	-
2480MHz	Pass	AV	2.495G	48.18	54.00	-5.82	3	Vertical	156	2.27	-
2480MHz	Pass	PK	2.4794G	93.70	Inf	-Inf	3	Vertical	156	2.27	-
2480MHz	Pass	PK	2.487G	59.51	74.00	-14.49	3	Vertical	156	2.27	-
2480MHz	Pass	AV	2.48G	102.28	Inf	-Inf	3	Horizontal	19	1.44	-
2480MHz	Pass	AV	2.4835G	48.84	54.00	-5.16	3	Horizontal	19	1.44	-
2480MHz	Pass	PK	2.48G	104.91	Inf	-Inf	3	Horizontal	19	1.44	-
2480MHz	Pass	PK	2.4982G	60.07	74.00	-13.93	3	Horizontal	19	1.44	-
2480MHz	Pass	AV	4.981G	34.90	54.00	-19.10	3	Vertical	63	2.42	-
2480MHz	Pass	PK	4.9768G	47.29	74.00	-26.71	3	Vertical	63	2.42	-
2480MHz	Pass	AV	4.9836G	34.99	54.00	-19.01	3	Horizontal	311	2.62	-
2480MHz	Pass	PK	4.9266G	46.97	74.00	-27.03	3	Horizontal	311	2.62	-

BT-LE(1Mbps)

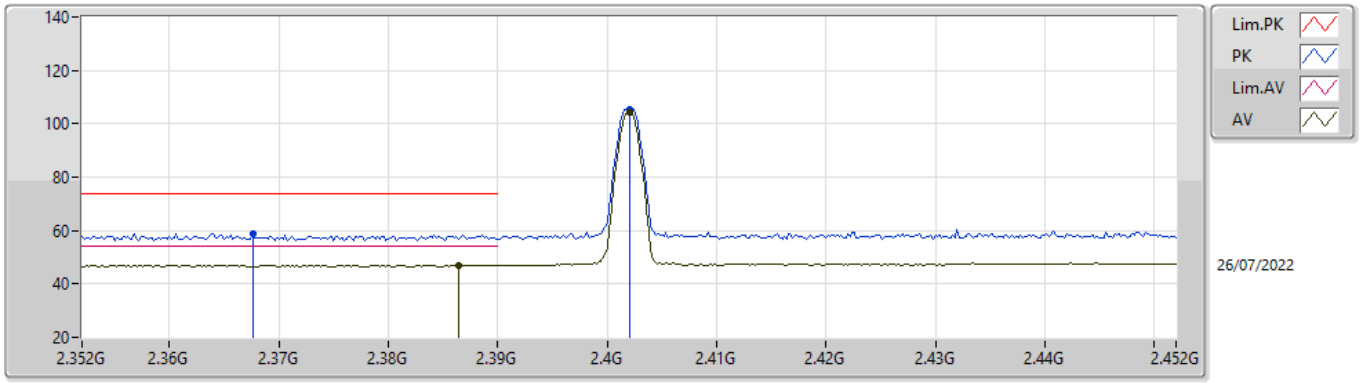
2402MHz_TX



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	2.3778G	47.11	54.00	-6.89	31.72	3	Vertical	101	2.52	-	15.39	27.36	4.36	-
AV	2.402G	102.43	Inf	-Inf	31.79	3	Vertical	101	2.52	-	70.64	27.41	4.38	-
PK	2.3806G	58.79	74.00	-15.21	31.72	3	Vertical	101	2.52	-	27.07	27.36	4.36	-
PK	2.402G	103.35	Inf	-Inf	31.79	3	Vertical	101	2.52	-	71.56	27.41	4.38	-

BT-LE(1Mbps)

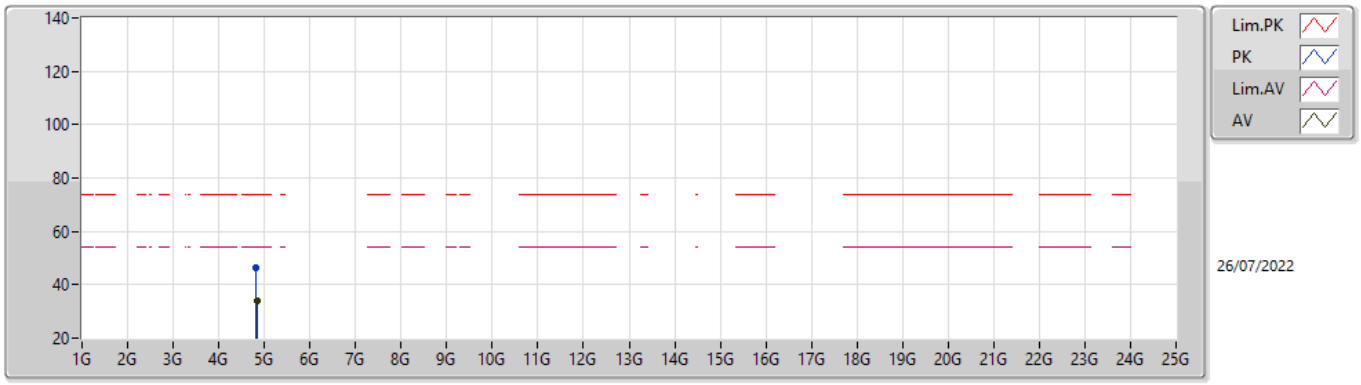
2402MHz_TX



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	2.3864G	47.14	54.00	-6.86	31.74	3	Horizontal	176	2.10	-	15.40	27.37	4.37	-
AV	2.402G	104.39	Inf	-Inf	31.79	3	Horizontal	176	2.10	-	72.60	27.41	4.38	-
PK	2.3676G	58.70	74.00	-15.30	31.69	3	Horizontal	176	2.10	-	27.01	27.34	4.35	-
PK	2.402G	105.32	Inf	-Inf	31.79	3	Horizontal	176	2.10	-	73.53	27.41	4.38	-

BT-LE(1Mbps)

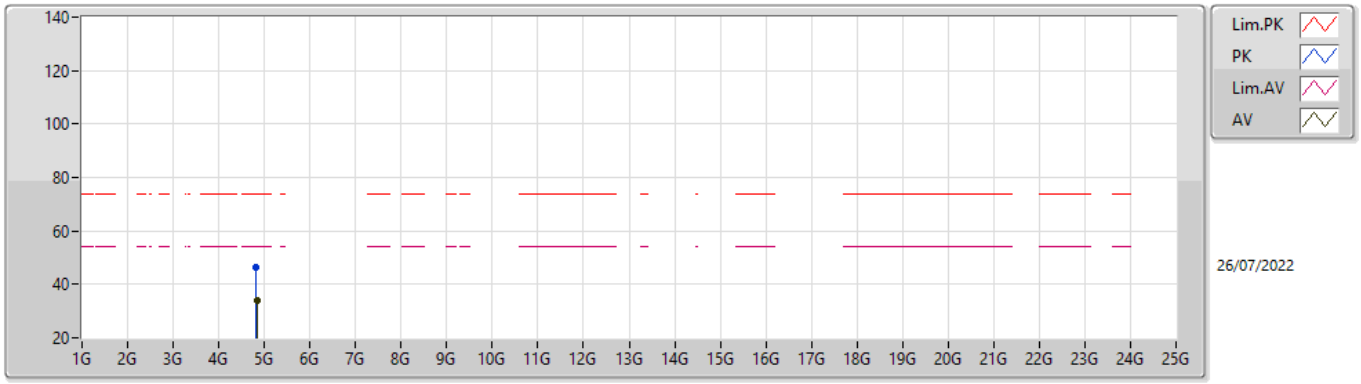
2402MHz_TX



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	4.8464G	34.13	54.00	-19.87	8.97	3	Vertical	153	2.67	-	25.16	32.69	6.29	30.01
PK	4.8246G	46.60	74.00	-27.40	8.85	3	Vertical	153	2.67	-	37.75	32.60	6.27	30.02

BT-LE(1Mbps)

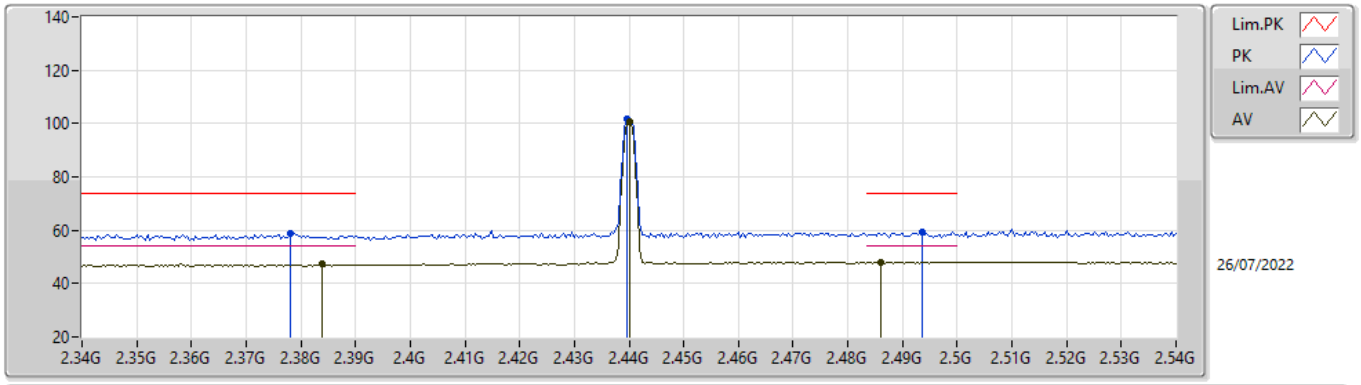
2402MHz_TX



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	4.8446G	34.12	54.00	-19.88	8.96	3	Horizontal	356	1.84	-	25.16	32.68	6.29	30.01
PK	4.7984G	46.23	74.00	-27.77	8.72	3	Horizontal	356	1.84	-	37.51	32.49	6.26	30.03

BT-LE(1Mbps)

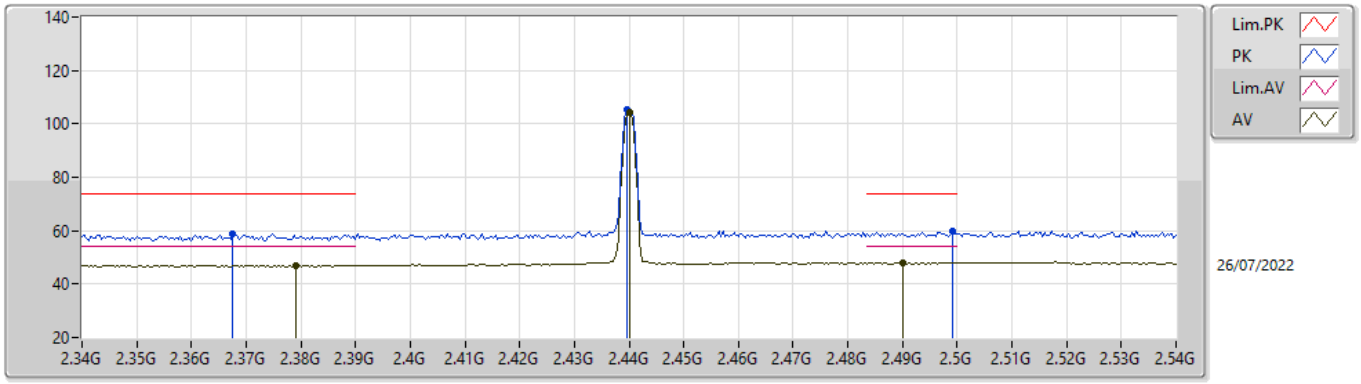
2440MHz_TX



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	2.384G	47.36	54.00	-6.64	31.73	3	Vertical	111	2.74	-	15.63	27.37	4.36	-
AV	2.44G	100.79	Inf	-Inf	32.00	3	Vertical	111	2.74	-	68.79	27.56	4.44	-
AV	2.486G	48.14	54.00	-5.86	32.32	3	Vertical	111	2.74	-	15.82	27.82	4.50	-
PK	2.378G	58.73	74.00	-15.27	31.72	3	Vertical	111	2.74	-	27.01	27.36	4.36	-
PK	2.4396G	101.70	Inf	-Inf	32.00	3	Vertical	111	2.74	-	69.70	27.56	4.44	-
PK	2.4936G	59.40	74.00	-14.60	32.38	3	Vertical	111	2.74	-	27.02	27.86	4.52	-

BT-LE(1Mbps)

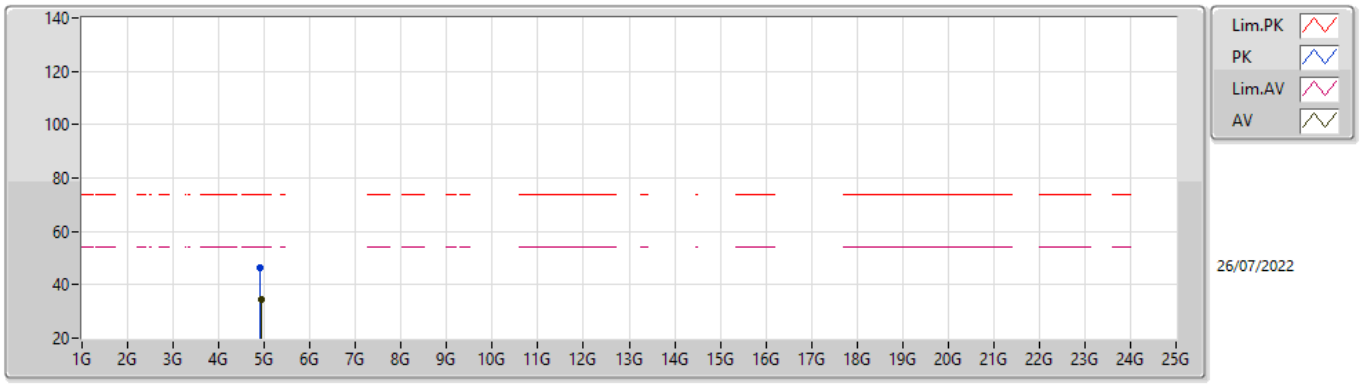
2440MHz_TX



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	2.3792G	47.11	54.00	-6.89	31.72	3	Horizontal	19	1.76	-	15.39	27.36	4.36	-
AV	2.44G	104.41	Inf	-Inf	32.00	3	Horizontal	19	1.76	-	72.41	27.56	4.44	-
AV	2.49G	48.16	54.00	-5.84	32.35	3	Horizontal	19	1.76	-	15.81	27.84	4.51	-
PK	2.3676G	58.96	74.00	-15.04	31.69	3	Horizontal	19	1.76	-	27.27	27.34	4.35	-
PK	2.4396G	105.32	Inf	-Inf	32.00	3	Horizontal	19	1.76	-	73.32	27.56	4.44	-
PK	2.4992G	59.82	74.00	-14.18	32.42	3	Horizontal	19	1.76	-	27.40	27.90	4.52	-

BT-LE(1Mbps)

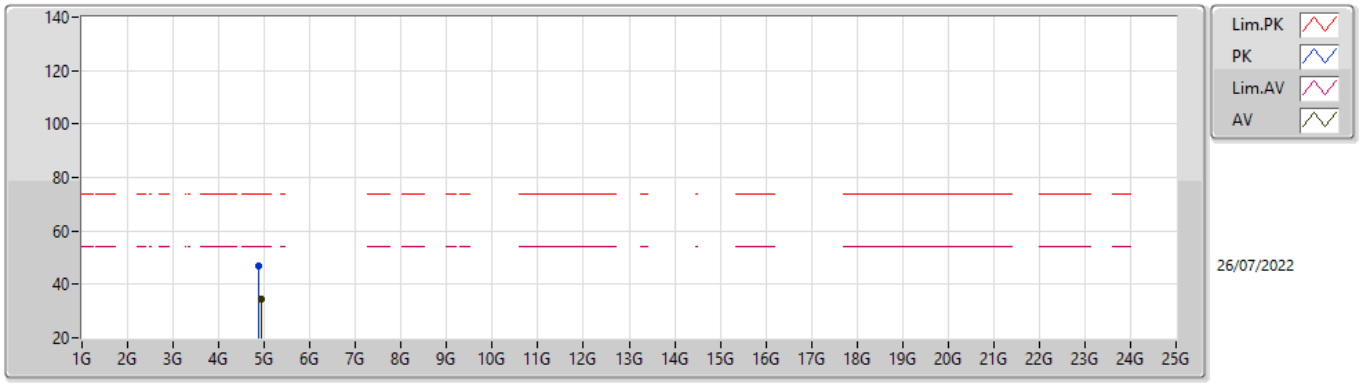
2440MHz_TX



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	4.9244G	34.65	54.00	-19.35	9.29	3	Vertical	62	2.48	-	25.36	32.95	6.33	29.99
PK	4.9132G	46.35	74.00	-27.65	9.22	3	Vertical	62	2.48	-	37.13	32.88	6.33	29.99

BT-LE(1Mbps)

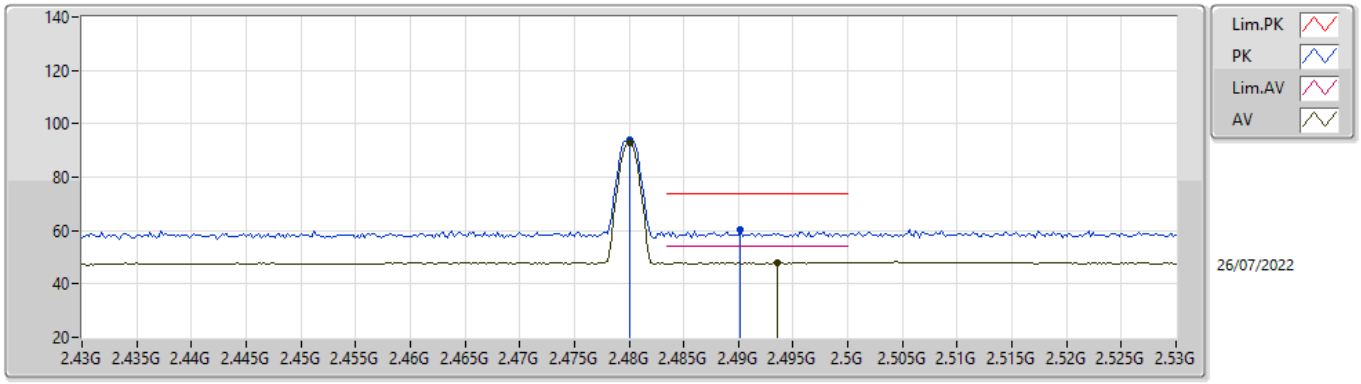
2440MHz_TX



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	4.9242G	34.65	54.00	-19.35	9.29	3	Horizontal	111	2.23	-	25.36	32.95	6.33	29.99
PK	4.8712G	47.03	74.00	-26.97	9.04	3	Horizontal	111	2.23	-	37.99	32.74	6.30	30.00

BT-LE(1Mbps)

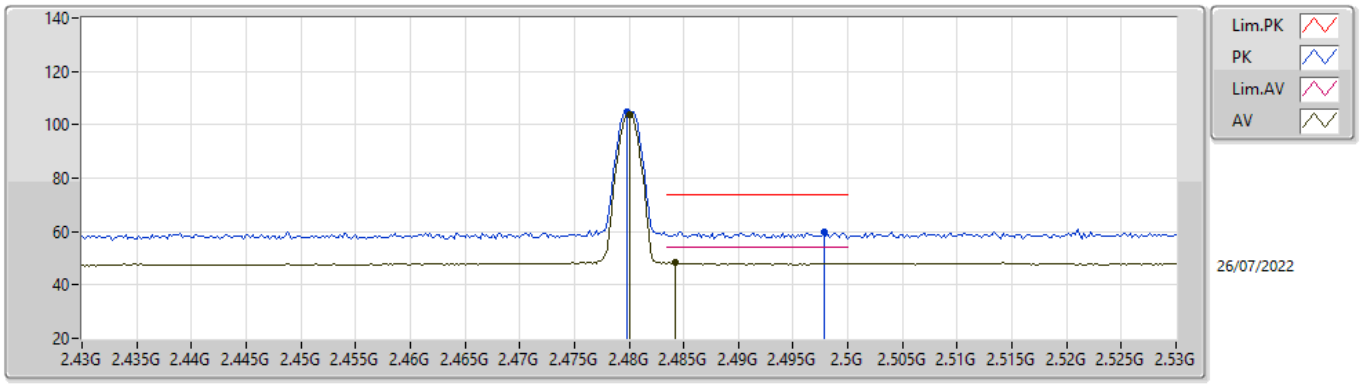
2480MHz_TX



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	92.68	Inf	-Inf	32.28	3	Vertical	156	2.27	-	60.40	27.78	4.50	-
AV	2.4936G	48.17	54.00	-5.83	32.38	3	Vertical	156	2.27	-	15.79	27.86	4.52	-
PK	2.48G	93.71	Inf	-Inf	32.28	3	Vertical	156	2.27	-	61.43	27.78	4.50	-
PK	2.4902G	60.46	74.00	-13.54	32.35	3	Vertical	156	2.27	-	28.11	27.84	4.51	-

BT-LE(1Mbps)

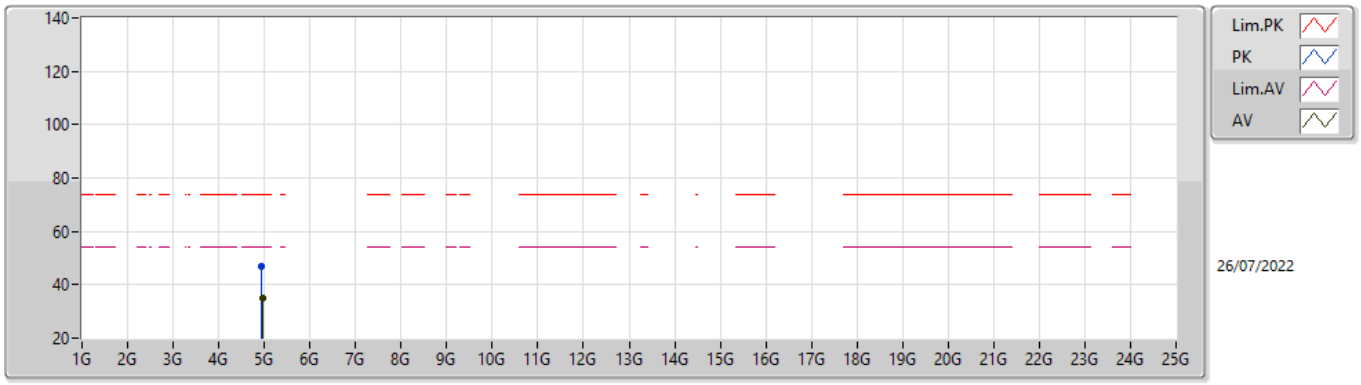
2480MHz_TX



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	103.89	Inf	-Inf	32.28	3	Horizontal	20	1.44	-	71.61	27.78	4.50	-
AV	2.4842G	48.38	54.00	-5.62	32.31	3	Horizontal	20	1.44	-	16.07	27.81	4.50	-
PK	2.4798G	104.80	Inf	-Inf	32.28	3	Horizontal	20	1.44	-	72.52	27.78	4.50	-
PK	2.4978G	59.68	74.00	-14.32	32.41	3	Horizontal	20	1.44	-	27.27	27.89	4.52	-

BT-LE(1Mbps)

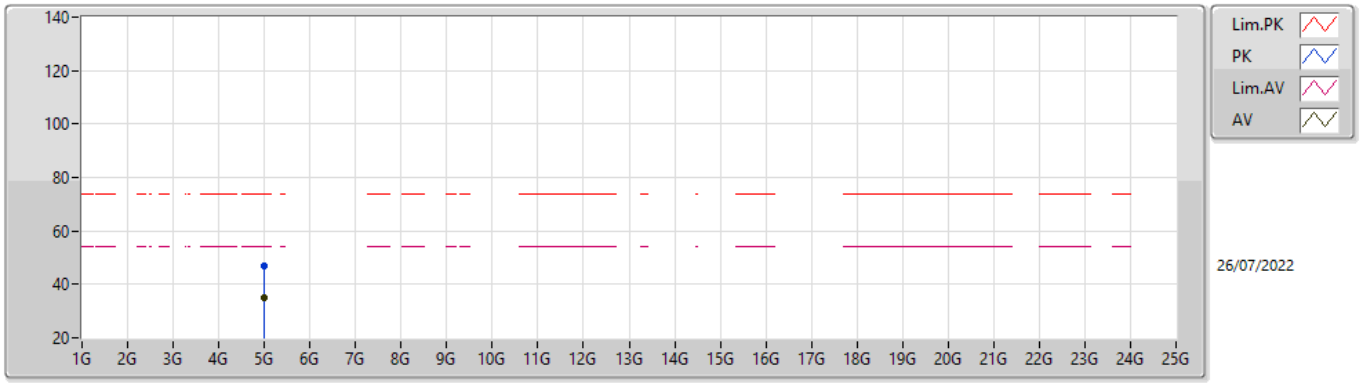
2480MHz_TX



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	4.977G	34.94	54.00	-19.06	9.61	3	Vertical	237	1.34	-	25.33	33.21	6.37	29.97
PK	4.9452G	47.15	74.00	-26.85	9.44	3	Vertical	237	1.34	-	37.71	33.07	6.35	29.98

BT-LE(1Mbps)

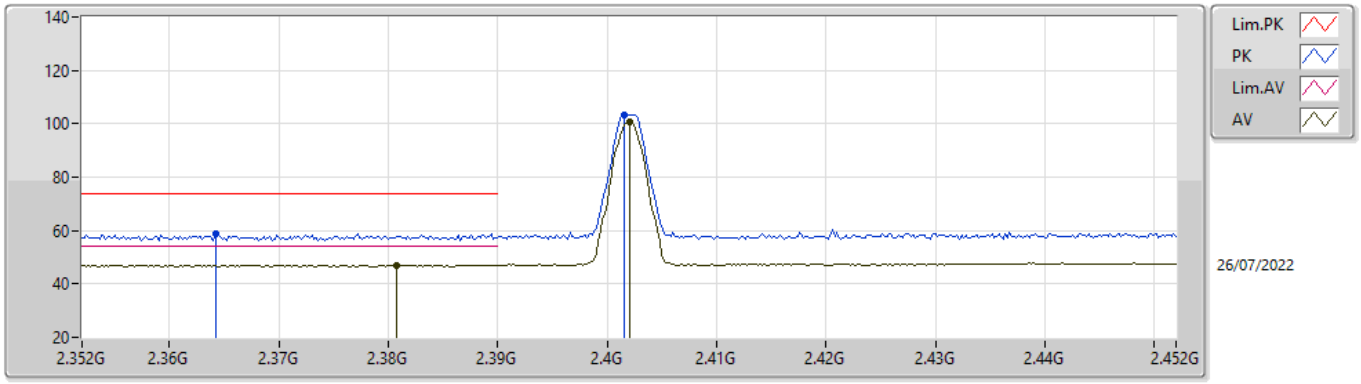
2480MHz_TX



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	5.0088G	35.10	54.00	-18.90	9.68	3	Horizontal	125	2.99	-	25.42	33.25	6.39	29.96
PK	5.0002G	46.99	74.00	-27.01	9.72	3	Horizontal	125	2.99	-	37.27	33.30	6.38	29.96

BT-LE(2Mbps)

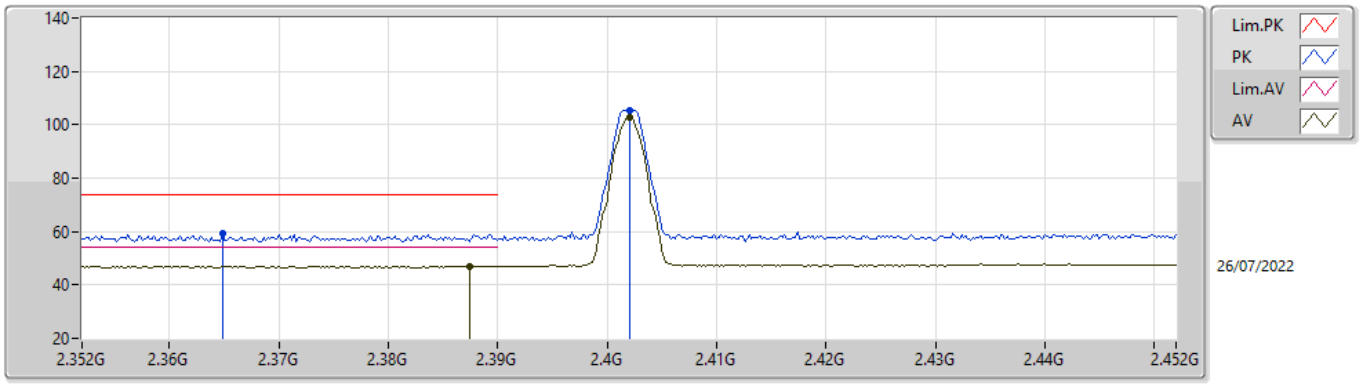
2402MHz_TX



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	2.3808G	47.11	54.00	-6.89	31.72	3	Vertical	101	2.52	-	15.39	27.36	4.36	-
AV	2.402G	100.81	Inf	-Inf	31.79	3	Vertical	101	2.52	-	69.02	27.41	4.38	-
PK	2.3642G	58.75	74.00	-15.25	31.67	3	Vertical	101	2.52	-	27.08	27.33	4.34	-
PK	2.4016G	103.35	Inf	-Inf	31.79	3	Vertical	101	2.52	-	71.56	27.41	4.38	-

BT-LE(2Mbps)

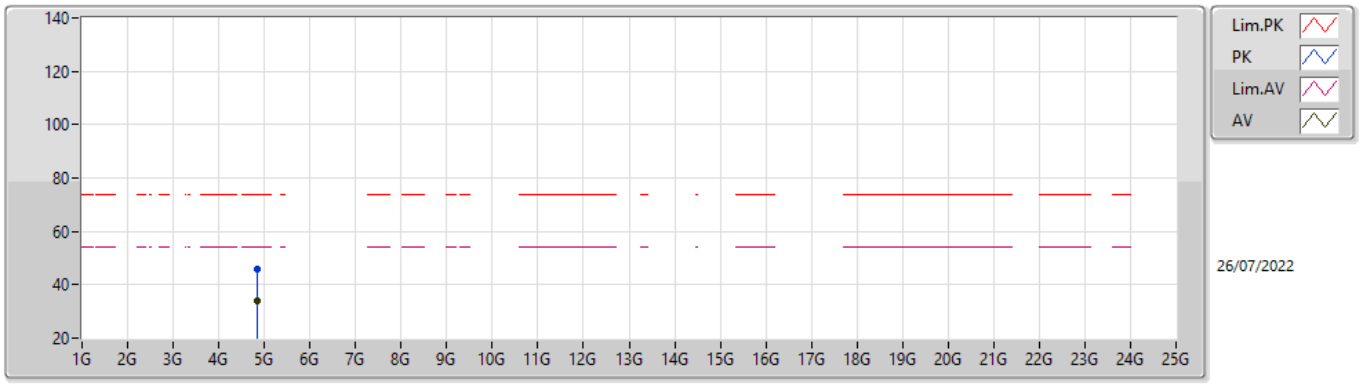
2402MHz_TX



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	2.3874G	47.14	54.00	-6.86	31.74	3	Horizontal	177	2.09	-	15.40	27.37	4.37	-
AV	2.402G	102.75	Inf	-Inf	31.79	3	Horizontal	177	2.09	-	70.96	27.41	4.38	-
PK	2.3648G	59.25	74.00	-14.75	31.67	3	Horizontal	177	2.09	-	27.58	27.33	4.34	-
PK	2.402G	105.37	Inf	-Inf	31.79	3	Horizontal	177	2.09	-	73.58	27.41	4.38	-

BT-LE(2Mbps)

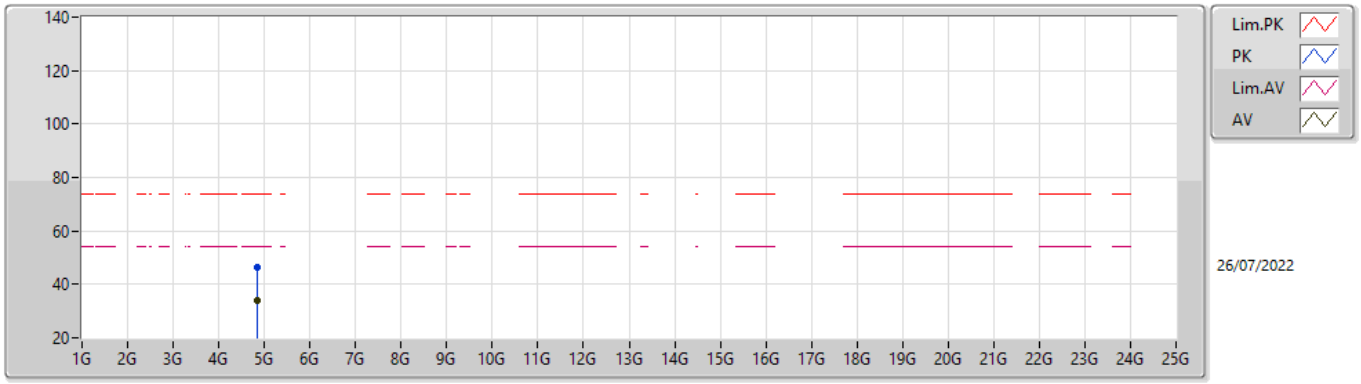
2402MHz_TX



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	4.844G	34.00	54.00	-20.00	8.96	3	Vertical	154	2.45	-	25.04	32.68	6.29	30.01
PK	4.852G	45.67	74.00	-28.33	8.98	3	Vertical	154	2.45	-	36.69	32.70	6.29	30.01

BT-LE(2Mbps)

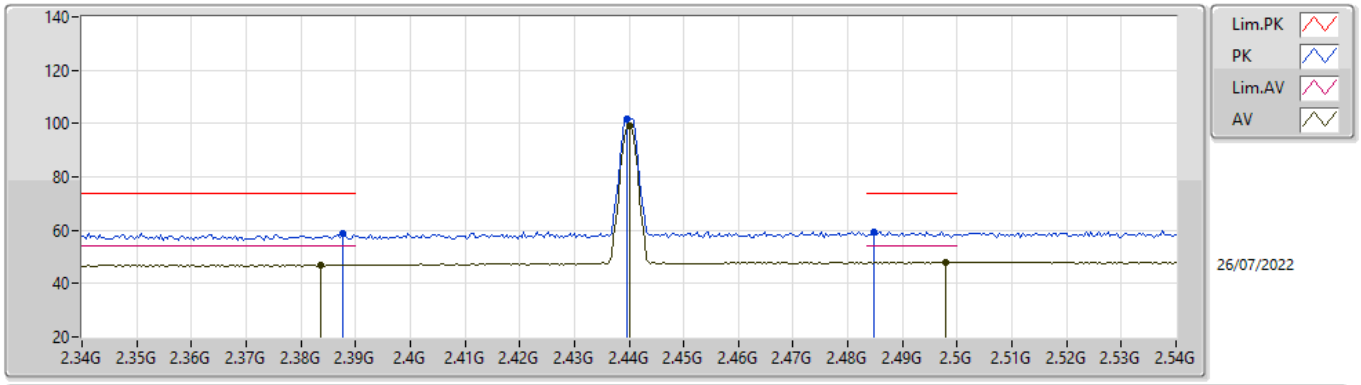
2402MHz_TX



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	4.8494G	34.04	54.00	-19.96	8.98	3	Horizontal	192	2.90	-	25.06	32.70	6.29	30.01
PK	4.8432G	46.33	74.00	-27.67	8.95	3	Horizontal	192	2.90	-	37.38	32.67	6.29	30.01

BT-LE(2Mbps)

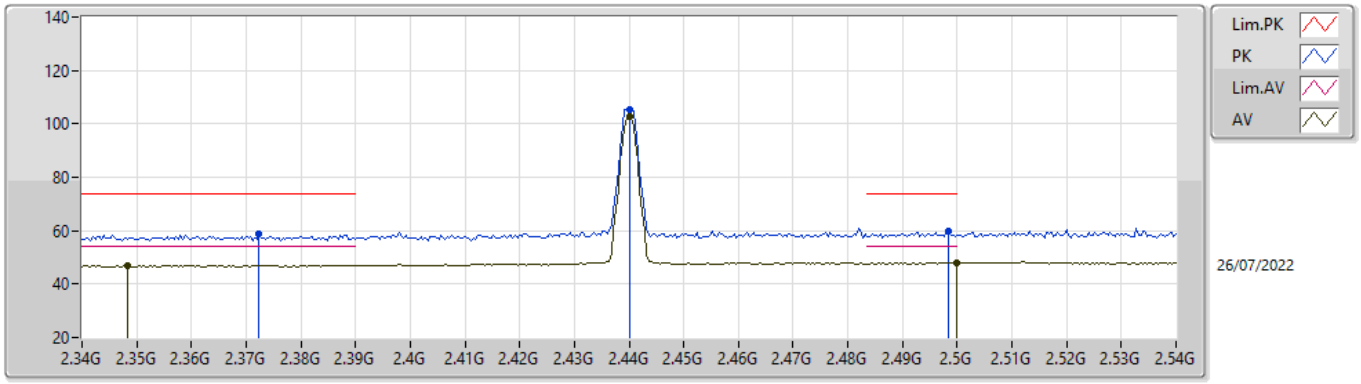
2440MHz_TX



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	2.3836G	47.12	54.00	-6.88	31.73	3	Vertical	110	2.75	-	15.39	27.37	4.36	-
AV	2.44G	99.14	Inf	-Inf	32.00	3	Vertical	110	2.75	-	67.14	27.56	4.44	-
AV	2.498G	47.94	54.00	-6.06	32.41	3	Vertical	110	2.75	-	15.53	27.89	4.52	-
PK	2.3876G	58.84	74.00	-15.16	31.75	3	Vertical	110	2.75	-	27.09	27.38	4.37	-
PK	2.4396G	101.77	Inf	-Inf	32.00	3	Vertical	110	2.75	-	69.77	27.56	4.44	-
PK	2.4848G	59.56	74.00	-14.44	32.31	3	Vertical	110	2.75	-	27.25	27.81	4.50	-

BT-LE(2Mbps)

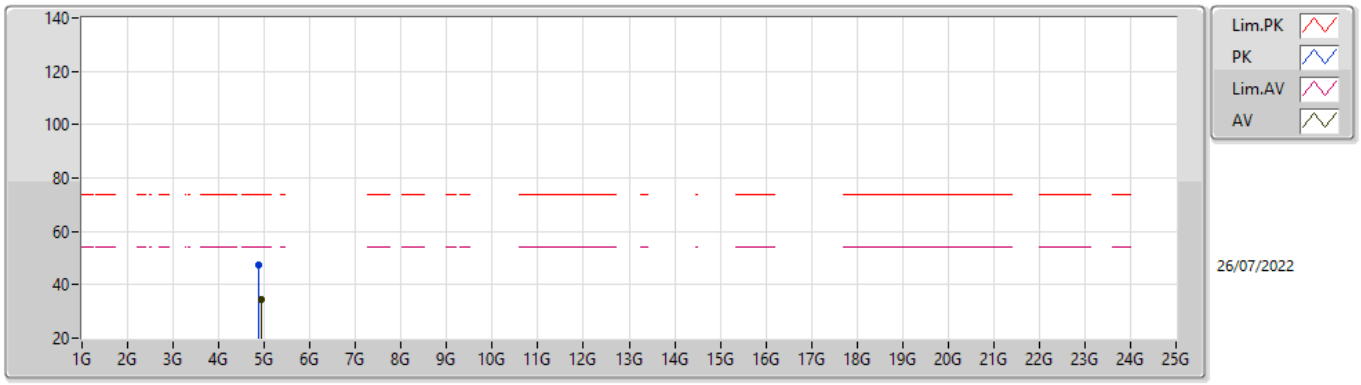
2440MHz_TX



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	2.3484G	47.08	54.00	-6.92	31.62	3	Horizontal	18	1.76	-	15.46	27.29	4.33	-
AV	2.44G	102.87	Inf	-Inf	32.00	3	Horizontal	18	1.76	-	70.87	27.56	4.44	-
AV	2.5G	47.95	54.00	-6.05	32.43	3	Horizontal	18	1.76	-	15.52	27.90	4.53	-
PK	2.3724G	58.57	74.00	-15.43	31.69	3	Horizontal	18	1.76	-	26.88	27.34	4.35	-
PK	2.44G	105.49	Inf	-Inf	32.00	3	Horizontal	18	1.76	-	73.49	27.56	4.44	-
PK	2.4984G	59.75	74.00	-14.25	32.41	3	Horizontal	18	1.76	-	27.34	27.89	4.52	-

BT-LE(2Mbps)

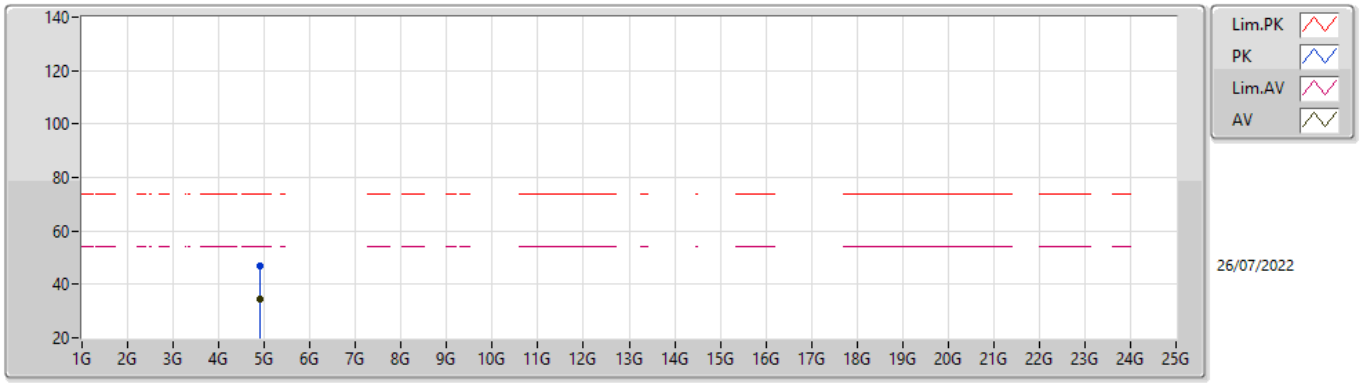
2440MHz_TX



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	4.9246G	34.65	54.00	-19.35	9.29	3	Vertical	66	2.12	-	25.36	32.95	6.33	29.99
PK	4.8876G	47.22	74.00	-26.78	9.09	3	Vertical	66	2.12	-	38.13	32.78	6.31	30.00

BT-LE(2Mbps)

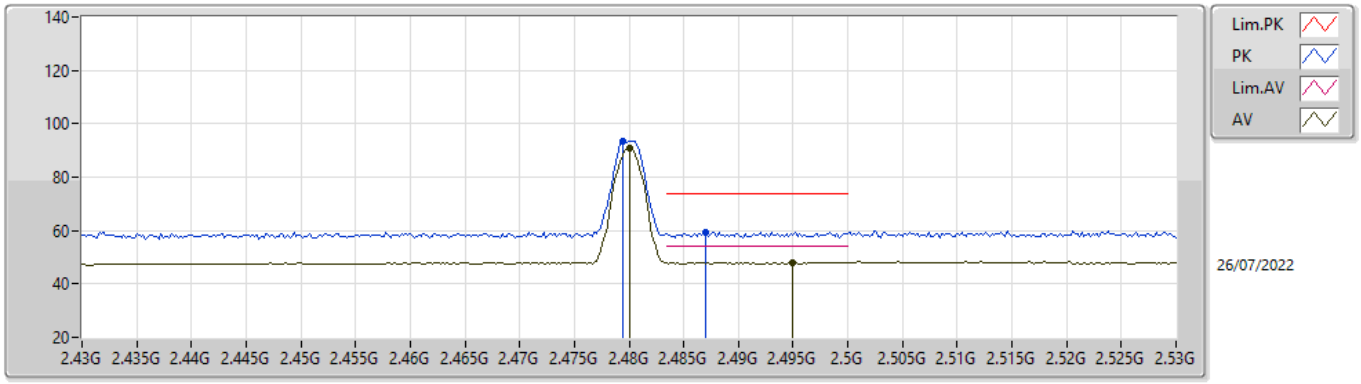
2440MHz_TX



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	4.9104G	34.65	54.00	-19.35	9.20	3	Horizontal	6	2.21	-	25.45	32.86	6.33	29.99
PK	4.9086G	46.85	74.00	-27.15	9.19	3	Horizontal	6	2.21	-	37.66	32.85	6.33	29.99

BT-LE(2Mbps)

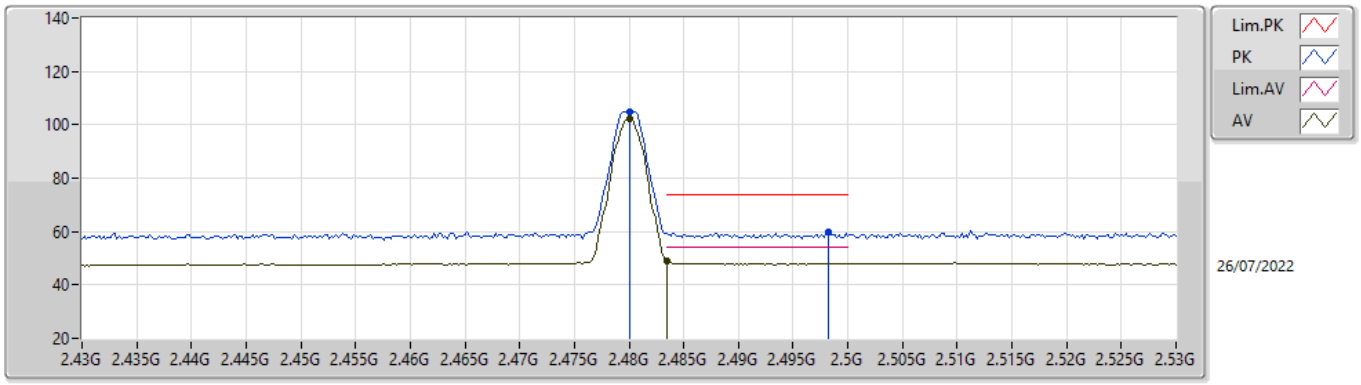
2480MHz_TX



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	90.98	Inf	-Inf	32.28	3	Vertical	156	2.27	-	58.70	27.78	4.50	-
AV	2.495G	48.18	54.00	-5.82	32.39	3	Vertical	156	2.27	-	15.79	27.87	4.52	-
PK	2.4794G	93.70	Inf	-Inf	32.28	3	Vertical	156	2.27	-	61.42	27.78	4.50	-
PK	2.487G	59.51	74.00	-14.49	32.33	3	Vertical	156	2.27	-	27.18	27.82	4.51	-

BT-LE(2Mbps)

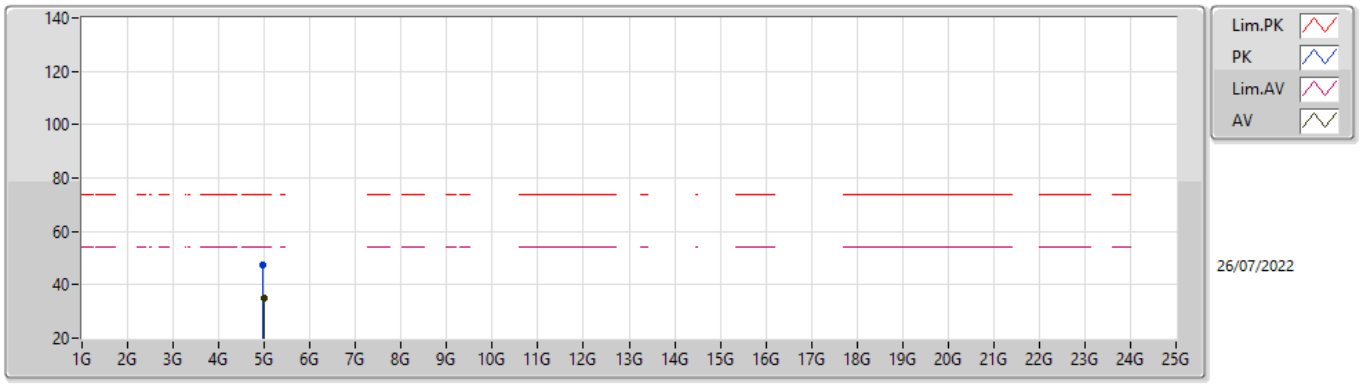
2480MHz_TX



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	102.28	Inf	-Inf	32.28	3	Horizontal	19	1.44	-	70.00	27.78	4.50	-
AV	2.4835G	48.84	54.00	-5.16	32.30	3	Horizontal	19	1.44	-	16.54	27.80	4.50	-
PK	2.48G	104.91	Inf	-Inf	32.28	3	Horizontal	19	1.44	-	72.63	27.78	4.50	-
PK	2.4982G	60.07	74.00	-13.93	32.41	3	Horizontal	19	1.44	-	27.66	27.89	4.52	-

BT-LE(2Mbps)

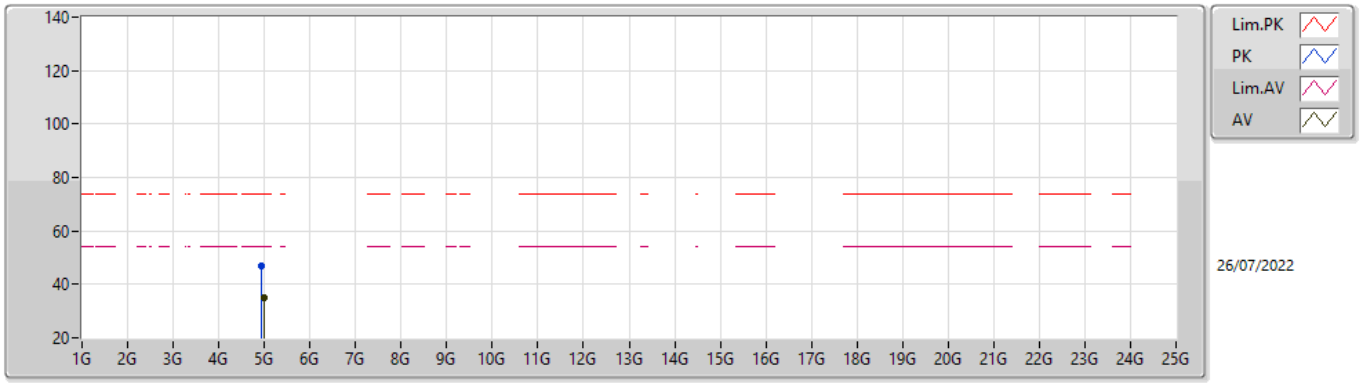
2480MHz_TX



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	4.981G	34.90	54.00	-19.10	9.62	3	Vertical	63	2.42	-	25.28	33.22	6.37	29.97
PK	4.9768G	47.29	74.00	-26.71	9.61	3	Vertical	63	2.42	-	37.68	33.21	6.37	29.97

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	4.9836G	34.99	54.00	-19.01	9.63	3	Horizontal	311	2.62	-	25.36	33.23	6.37	29.97
PK	4.9266G	46.97	74.00	-27.03	9.32	3	Horizontal	311	2.62	-	37.65	32.96	6.34	29.98