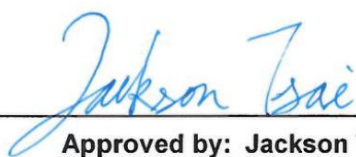


FCC Radio Test Report

FCC ID : 2AIBX-NIU6L
Equipment : NIU6
Brand Name : Electrolux
Model Name : NIU6
Applicant : Electrolux Italia S.p.A.
Corso Lino Zanussi 24 / 33080 Porcia (PN), Italy
Manufacturer : Electrolux Italia S.p.A.
Corso Lino Zanussi 24 / 33080 Porcia (PN), Italy
Standard : 47 CFR FCC Part 15.247

The product was received on Nov. 15, 2022, and testing was started from Nov. 21, 2022 and completed on Nov. 22, 2022. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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



Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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

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PHOTOGRAPHS OF EUT V01	



TEL : 886-3-3273456
FAX : 886-3-3270973
Report Template No.: HE1-C10 Ver4.3
FCC ID: 2AIBX-NIU6L

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	Not Required	Only employ DC Power
3.1	15.247(a)	DTS Bandwidth	PASS	-
3.2	15.247(b)	Maximum Conducted Output Power	PASS	-
3.3	15.247(e)	Power Spectral Density	PASS	-
3.4	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.5	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: Michelle Tsai

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-LE2(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
1	LITEON	WCBN3601M	Printed	Murata
2	LITEON	WCBN3601M	Printed	Murata

Ant.	Port	Gain (dBi)	
		2.4G	BT
1	1	2.3	-
2	2	-	1.6

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) could transmit/receive.

For BT function:

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

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

1.1.3 EUT Information

Operational Condition	
EUT Power Type	From Test Fixture
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)	0.649	1.88	405.625u	3k
BT-LE2(2Mbps)	0.354	4.51	221.563u	10k

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

1.1.5 Table for Multiple Listing

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

EUT No.	Model	Voltage
1	NIU6	3.3V
2	NIU6	5V

Note.1: The test voltage 3.3V and 5V configuration was pretested and 5V was found to be the worst case for conducted test.

1.2 Testing Applied Standards

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

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

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

- ♦ KDB 558074 D01 v05r02
- ♦ KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-HY	Luby hsu	22.1~23.6°C / 52~55%	22/Nov/2022
☒ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH09-HY	Lego Lin	20.5~25.5°C / 56~60%	21/Nov/2022~22/Nov/2022

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
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%
Receiver Radiated Unwanted Emissions	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	Tera Term Version 4.76
-----------------------	------------------------

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	15
2440MHz	15
2480MHz	5
BT-LE2(2Mbps)_1TX	-
2402MHz	15
2440MHz	15
2480MHz	4

2.2 The Worst Case Measurement Configuration

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

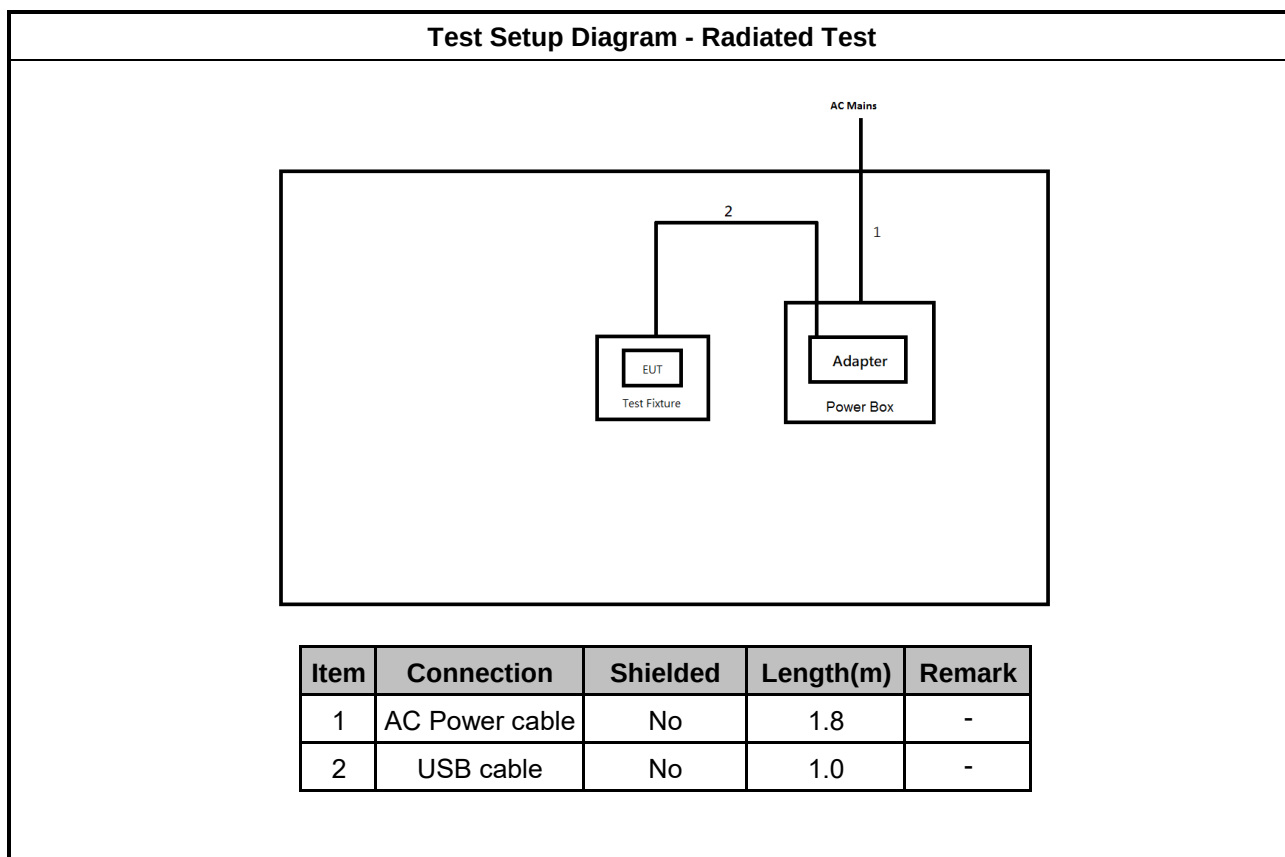
The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	Text Fixture Mode (3.3V)		
2	Text Fixture Mode (5V)		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		Mode 1	Mode 2

2.3 Support Equipment

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Fixture Board	NA	WCBN3600M_EVB_V01	-	Provided by Customer

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	USB cable	trihorses	MIC2	-	-
2	Adapter	Apple	A1385	-	-
3	Fixture Board	NA	WCBN3600M_EVB_V01	-	Provided by Customer

2.4 Test Setup Diagram



3 Transmitter Test Result

3.1 DTS Bandwidth

3.1.1 6dB Bandwidth Limit

6dB Bandwidth Limit	
Systems using digital modulation techniques:	
▪	6 dB bandwidth $\geq$ 500 kHz.

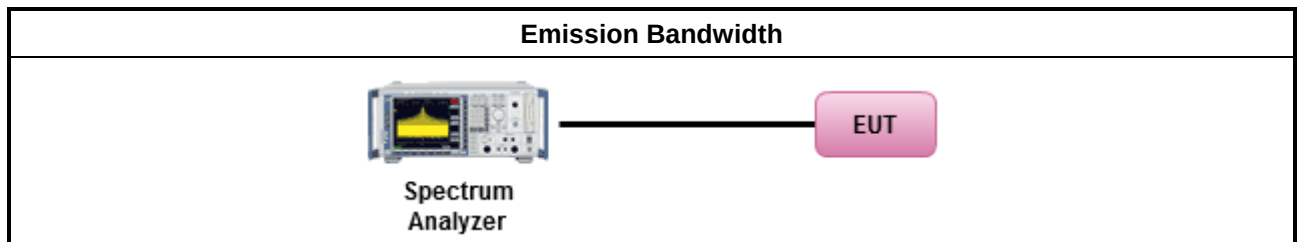
3.1.2 Measuring Instruments

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

3.1.3 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.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

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

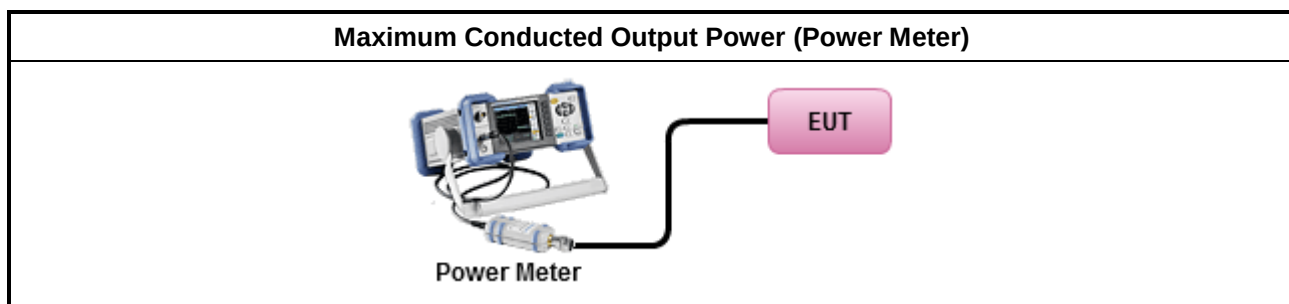
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B

3.3 Power Spectral Density

3.3.1 Power Spectral Density Limit

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

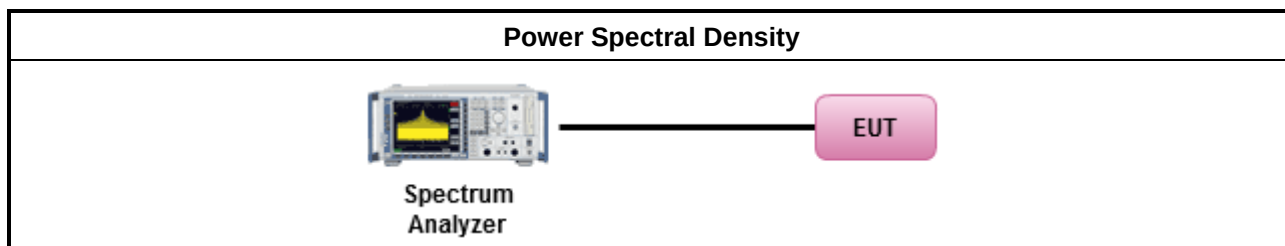
3.3.2 Measuring Instruments

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

3.3.3 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.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Refer as Appendix C

3.4 Emissions in Non-restricted Frequency Bands

3.4.1 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.	

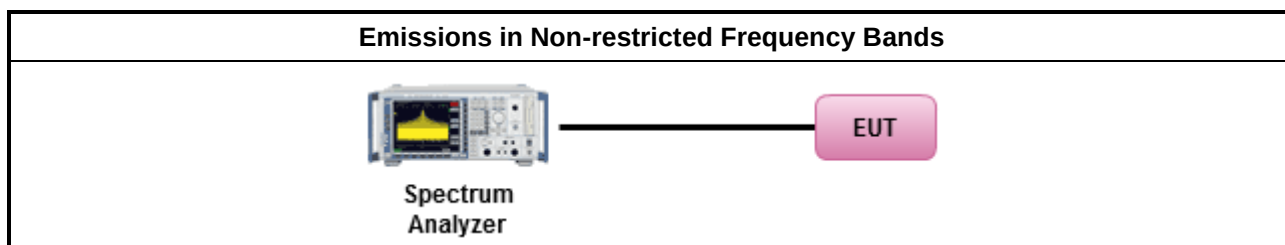
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix D

3.5 Emissions in Restricted Frequency Bands

3.5.1 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 below 30 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.

3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

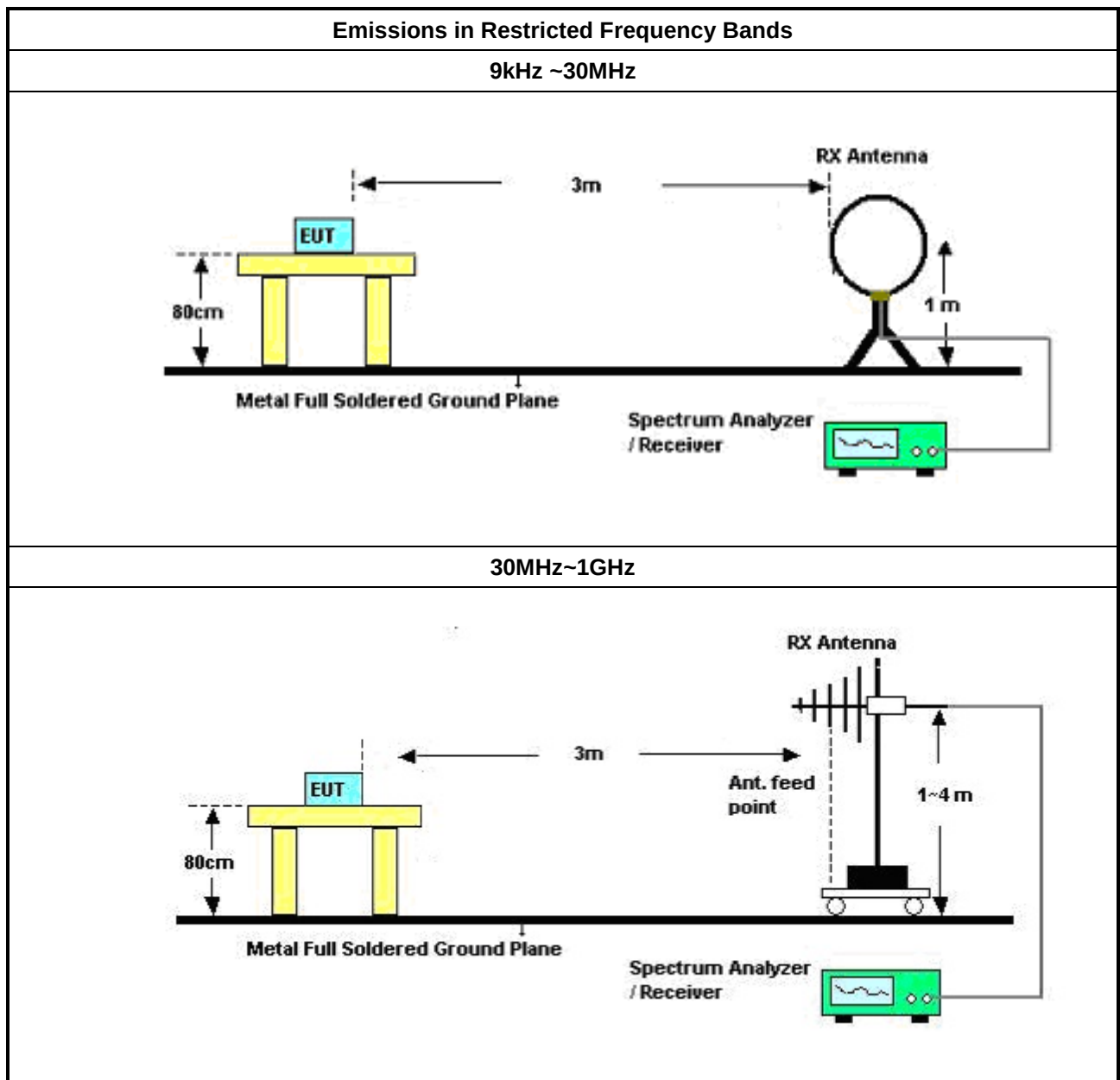
Test Method	
	The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].
	Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
	For the transmitter unwanted 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 $f \geq 1$ 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.

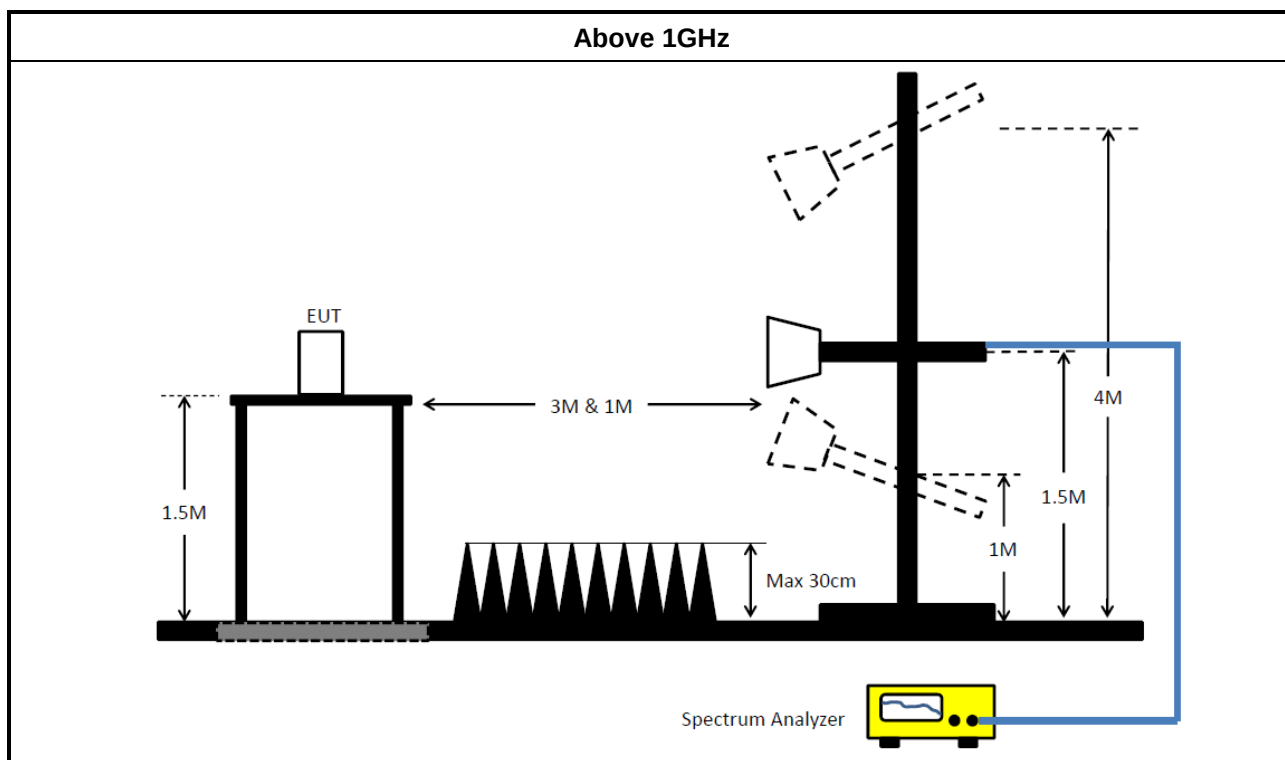
3.5.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.5.5 Test Setup





3.5.6 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.

3.5.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix E

4 Test Equipment and Calibration Data

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/2022	20/Oct/2023
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	21/Feb/2022	20/Feb/2023
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	21/Feb/2022	20/Feb/2023
SENSE-15247_FS	Sporton	V5.10.7.16	N/A	N/A	N/A	N/A

Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	25/Mar/2022	24/Mar/2023
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	17/Mar/2022	16/Mar/2023
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	11/Aug/2022	10/Aug/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz~18GHz	27/Dec/2021	26/Dec/2022
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	08/Apr/2022	07/Apr/2023
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	22/Jul/2022	21/Jul/2023
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&M TJ6102-05	35418 & 3	30MHz~1GHz	28/Aug/2022	27/Aug/2023
RF Cable-low	Jye Bao	RG142	CB031+324530/4	9kHz~30MHz	07/Feb/2022	06/Feb/2023
RF Cable-low	Jye Bao	RG142	03CH09-cable-01	30MHz~1GHz	17/Aug/2022	16/Aug/2023
RF CABLE 5m+3m+1m	HUBER+SUHNER	SUCOFLEX1 04	03CH09-cable-02	1GHz~40GHz	17/Aug/2022	16/Aug/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	08/Mar/2022	07/Mar/2023
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	18/Mar/2022	17/Mar/2023
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	13/May/2022	12/May/2023
SENSE-15247_FS	Sporton	V5.10.7.14	N/A	N/A	N/A	N/A

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)	665k	1.021M	1M02F1D	660k	1.018M
BT-LE2(2Mbps)_1TX	1.13M	2.024M	2M02F1D	1.12M	2.009M

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

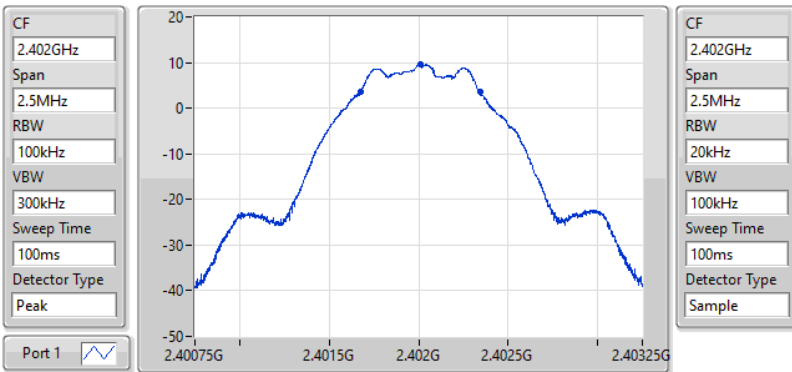
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	665k	1.018M
2440MHz	Pass	500k	660k	1.021M
2480MHz	Pass	500k	660k	1.021M
BT-LE2(2Mbps)_1TX	-	-	-	-
2402MHz	Pass	500k	1.12M	2.021M
2440MHz	Pass	500k	1.128M	2.009M
2480MHz	Pass	500k	1.13M	2.024M

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

BT-LE(1Mbps)

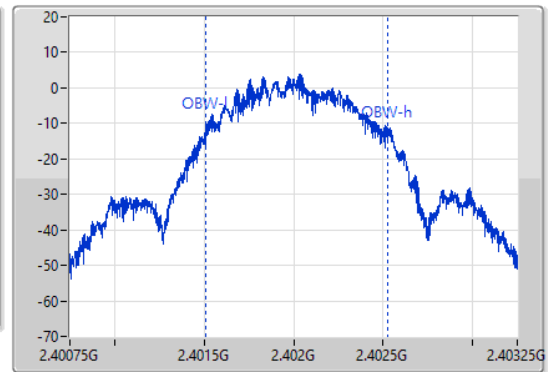
2402MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
665k	2.401676G	2.402341G	1.018M	2.40151G	2.402528G	500k	1

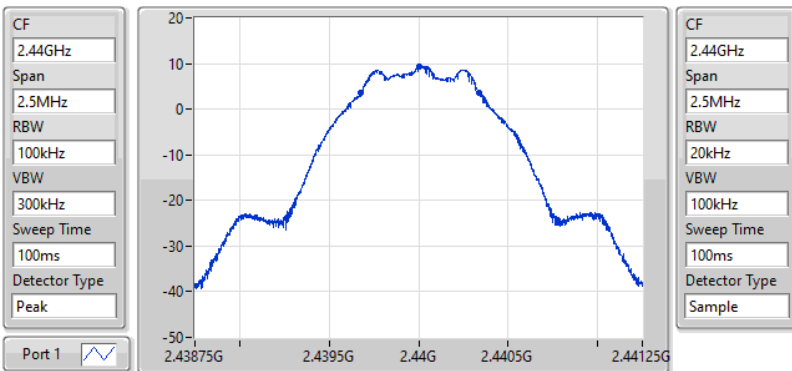
EBW-DTS

22/11/2022



BT-LE(1Mbps)

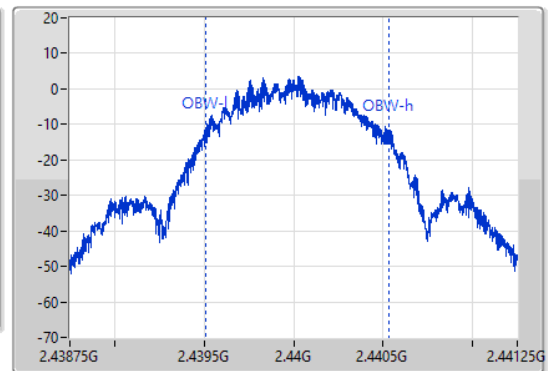
2440MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
660k	2.439676G	2.440336G	1.021M	2.439509G	2.44053G	500k	1

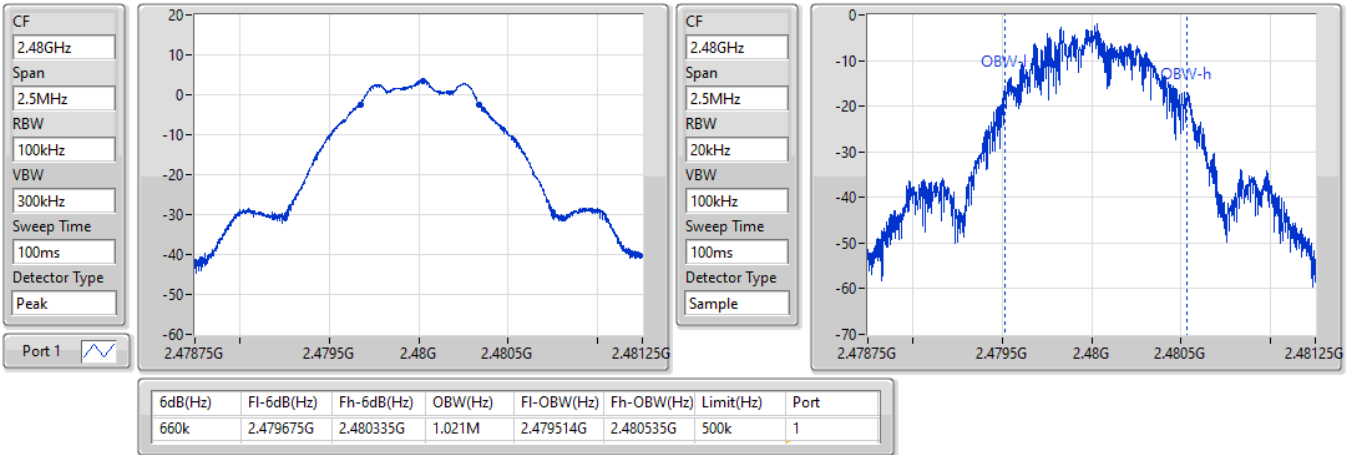
EBW-DTS

22/11/2022

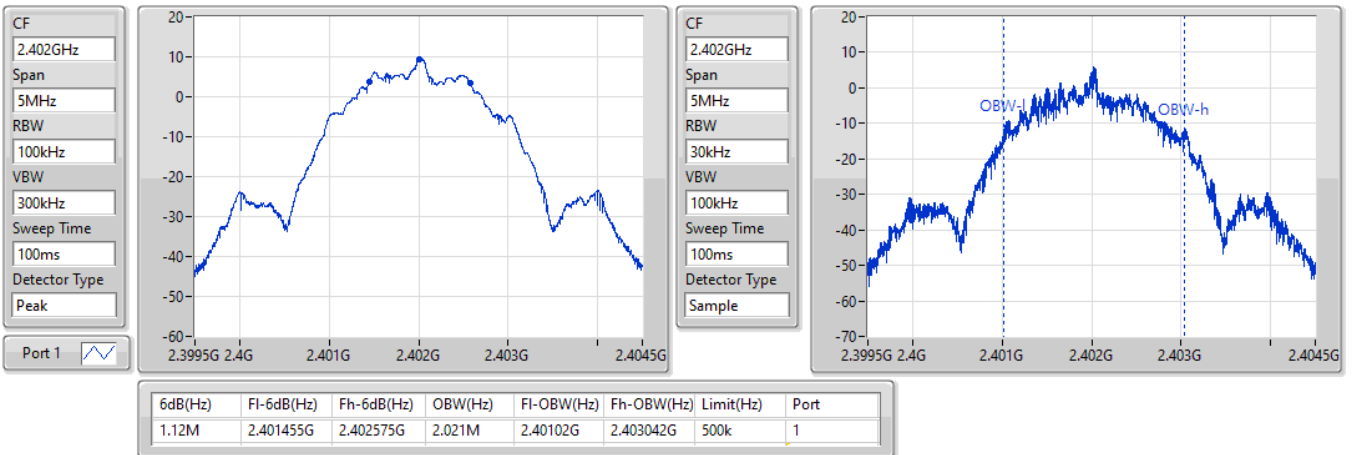


BT-LE(1Mbps)
EBW-DTS
2480MHz

22/11/2022

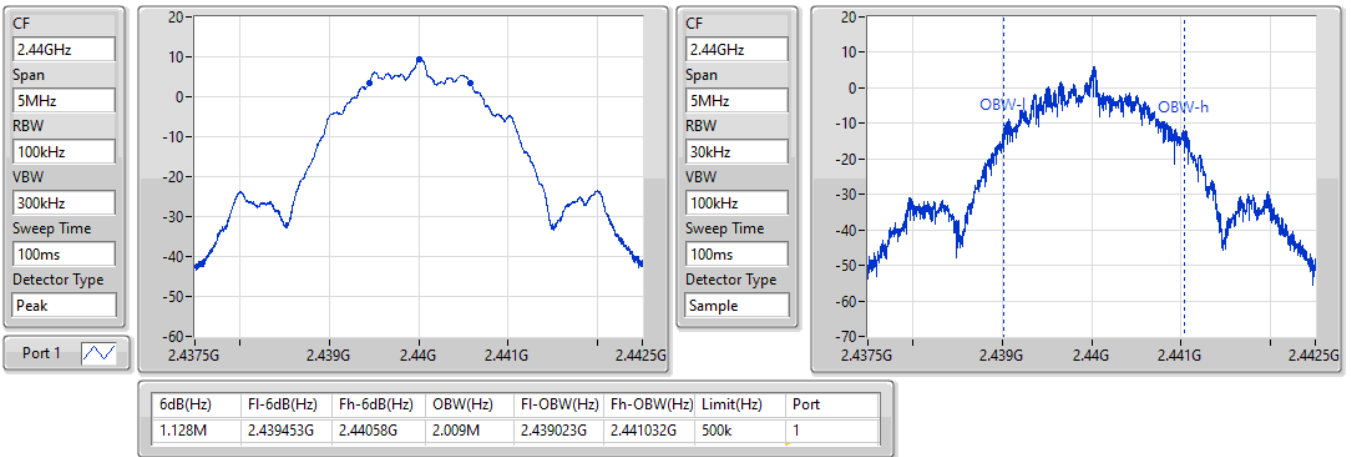

BT-LE2(2Mbps)_1TX
EBW-DTS
2402MHz

22/11/2022

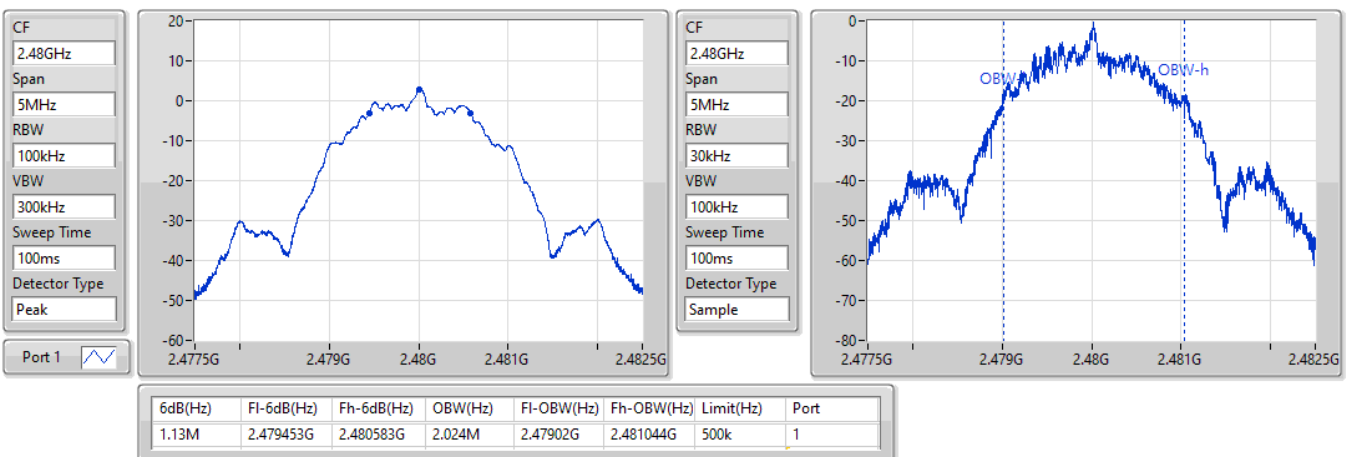


BT-LE2(2Mbps)_1TX
EBW-DTS
2440MHz

22/11/2022


BT-LE2(2Mbps)_1TX
EBW-DTS
2480MHz

22/11/2022





Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	9.07	0.00807
BT-LE2(2Mbps)_1TX	9.38	0.00867

**Result**

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.60	9.07	30.00
2440MHz	Pass	1.60	8.99	30.00
2480MHz	Pass	1.60	3.17	30.00
BT-LE2(2Mbps)_1TX	-	-	-	-
2402MHz	Pass	1.60	9.38	30.00
2440MHz	Pass	1.60	8.61	30.00
2480MHz	Pass	1.60	2.12	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-6.77
BT-LE2(2Mbps)_1TX	-7.93

RBW = 3kHz;

Result

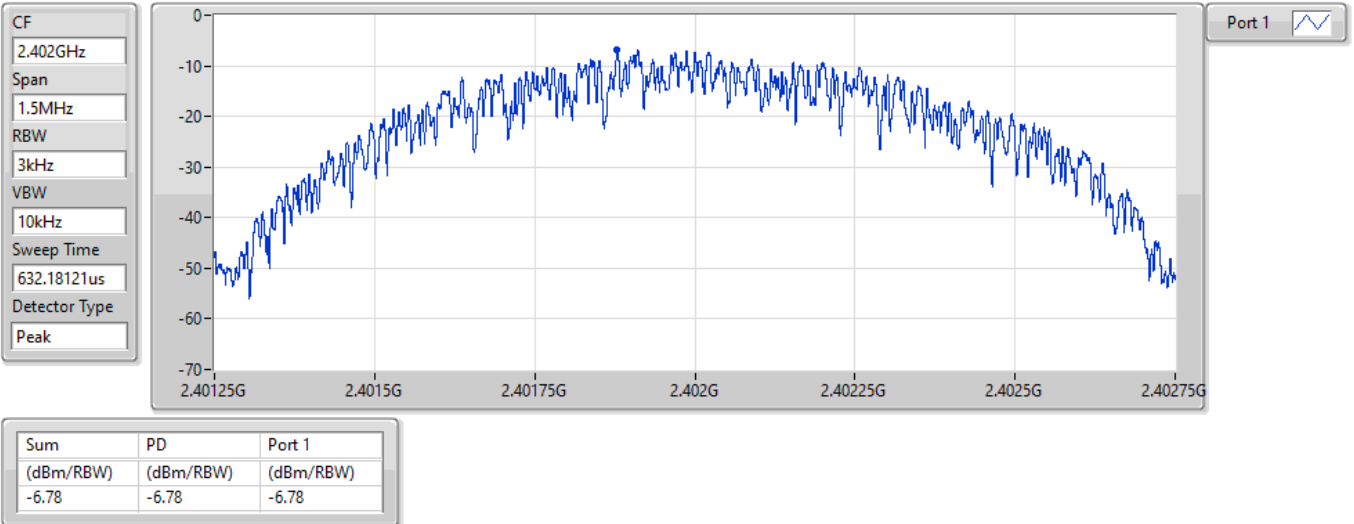
Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.60	-6.78	8.00
2440MHz	Pass	1.60	-6.77	8.00
2480MHz	Pass	1.60	-12.56	8.00
BT-LE2(2Mbps)_1TX	-	-	-	-
2402MHz	Pass	1.60	-7.93	8.00
2440MHz	Pass	1.60	-8.78	8.00
2480MHz	Pass	1.60	-15.30	8.00

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)

2402MHz

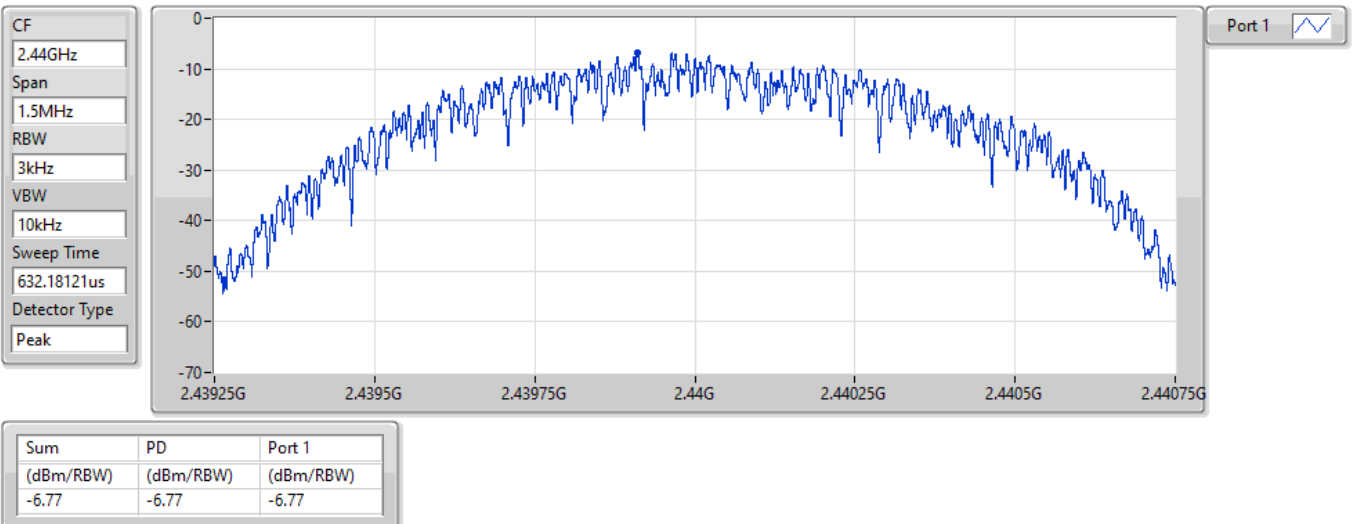
22/11/2022



BT-LE(1Mbps)

2440MHz

22/11/2022

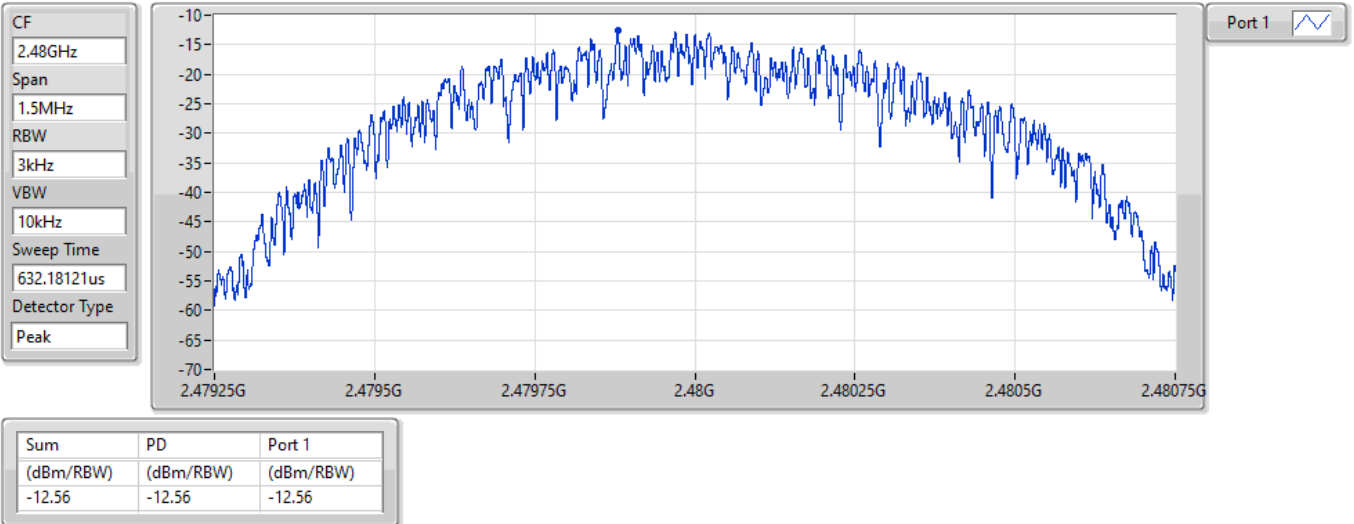


BT-LE(1Mbps)

PSD

2480MHz

22/11/2022

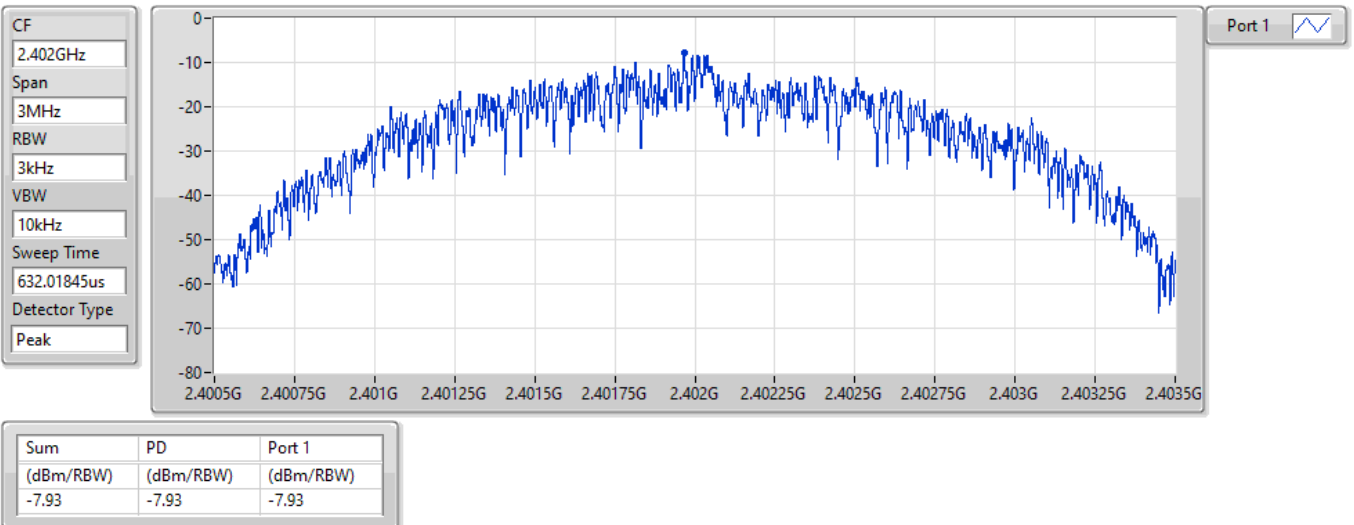


BT-LE2(2Mbps)_1TX

PSD

2402MHz

22/11/2022

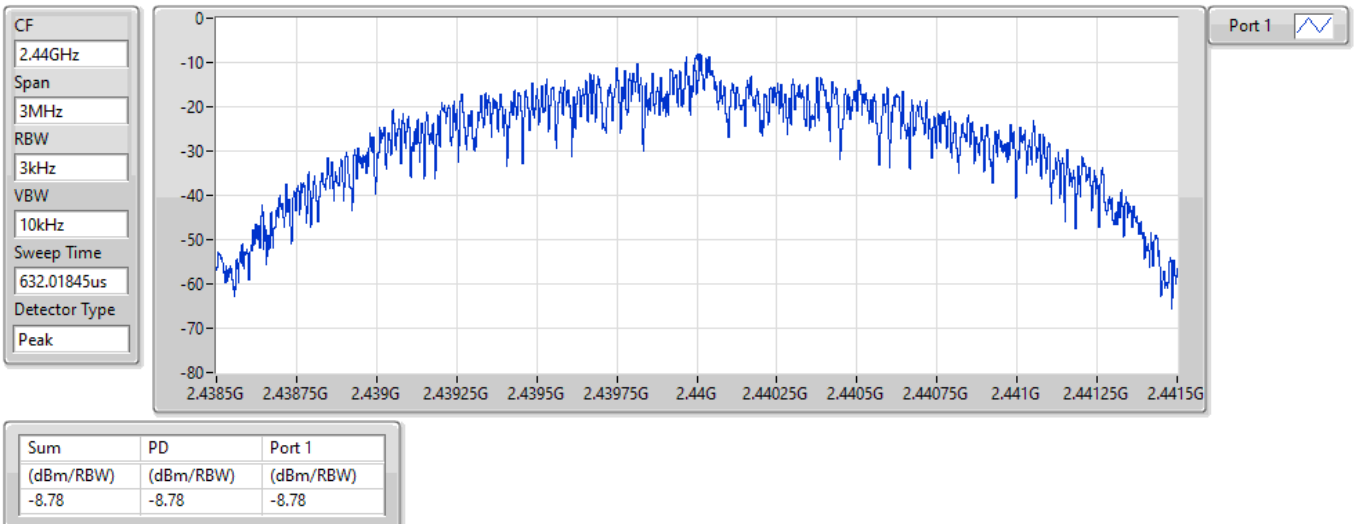


BT-LE2(2Mbps)_1TX

PSD

2440MHz

22/11/2022

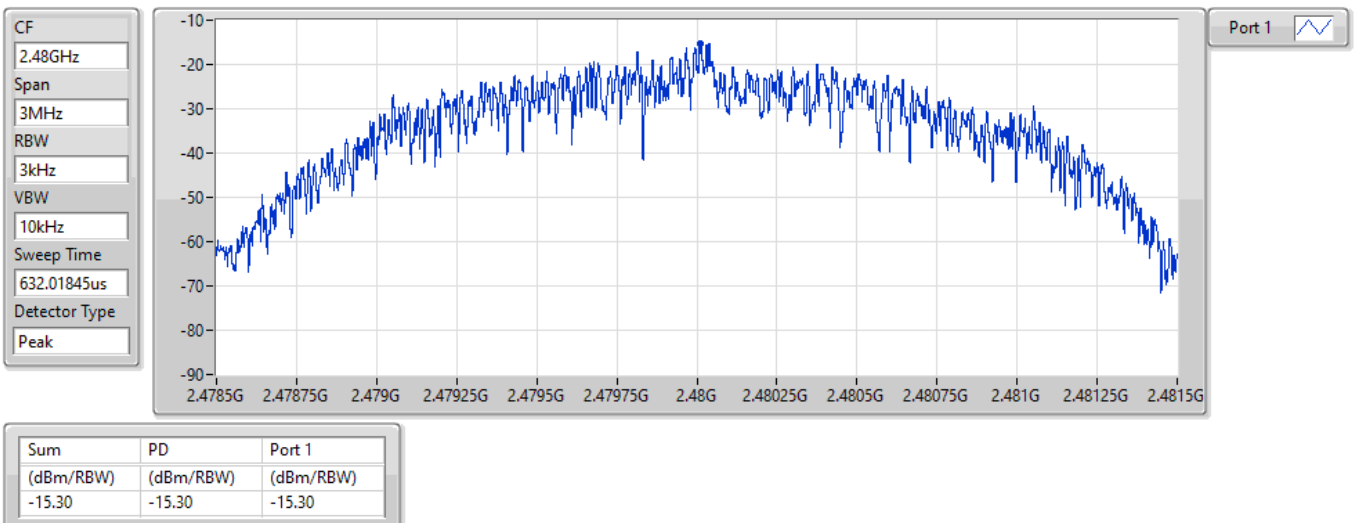


BT-LE2(2Mbps)_1TX

PSD

2480MHz

22/11/2022





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	2.402G	9.53	-20.47	2.1168G	-55.28	2.3982G	-35.45	2.4G	-44.18	2.50098G	-53.07	24.93532G	-41.44	1
BT-LE2(2Mbps)_1TX	Pass	2.402G	10.34	-19.66	951.2M	-55.03	2.4G	-23.44	2.4G	-23.09	2.50334G	-53.67	24.47977G	-41.11	1

Result

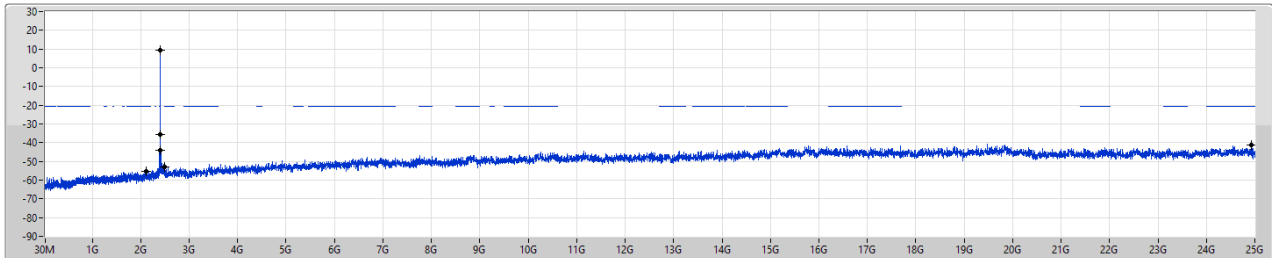
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	9.53	-20.47	2.1168G	-55.28	2.3982G	-35.45	2.4G	-44.18	2.50098G	-53.07	24.93532G	-41.44	1
2440MHz	Pass	2.402G	9.53	-20.47	2.18143G	-54.84	2.4G	-50.12	2.4G	-52.12	2.50346G	-53.17	24.9297G	-41.97	1
2480MHz	Pass	2.402G	9.53	-20.47	2.16263G	-55.15	2.39632G	-54.45	2.4G	-56.83	2.50018G	-52.98	24.50226G	-40.80	1
BT-LE2(2Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	10.34	-19.66	951.2M	-55.03	2.4G	-23.44	2.4G	-23.09	2.50334G	-53.67	24.47977G	-41.11	1
2440MHz	Pass	2.402G	10.34	-19.66	2.10153G	-55.16	2.39996G	-51.14	2.4G	-51.56	2.50342G	-53.18	24.84534G	-41.49	1
2480MHz	Pass	2.402G	10.34	-19.66	2.16145G	-54.91	2.39788G	-54.41	2.4G	-55.90	2.5001G	-52.80	24.92407G	-41.63	1

BT-LE(1Mbps)

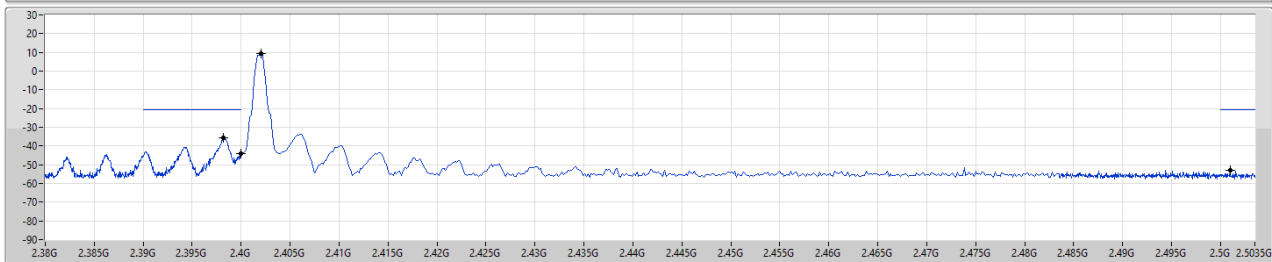
CSEndB-DTS

2402MHz

22/11/2022



Port 1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

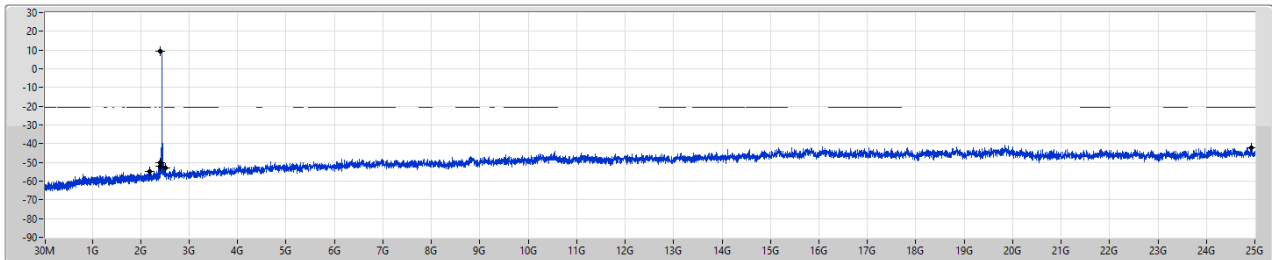
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.402G	9.53	-20.47	2.1168G	-55.28	2.3982G	-35.45	2.4G	-44.18	2.50098G	-53.07	2.49532G	-41.44	1

BT-LE(1Mbps)

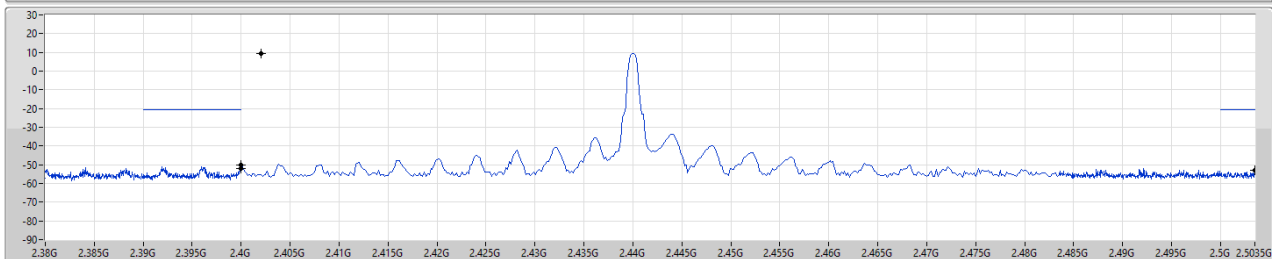
CSEndB-DTS

2440MHz

22/11/2022



Port 1



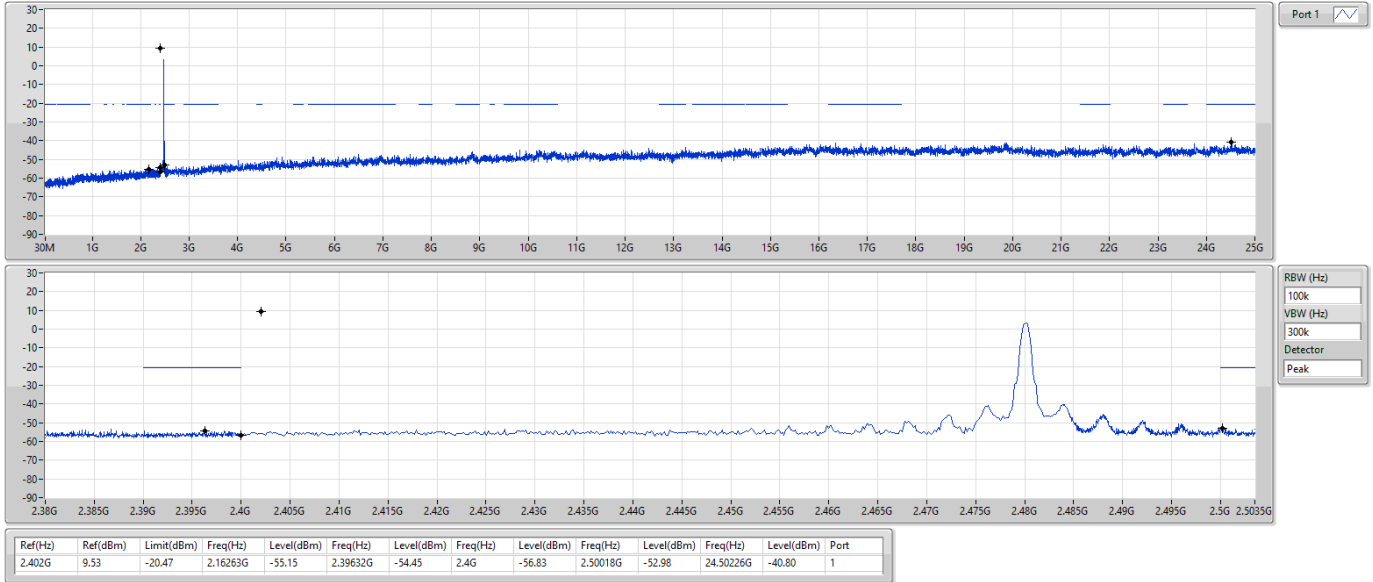
RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

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
2.402G	9.53	-20.47	2.18143G	-54.84	2.4G	-50.12	2.4G	-52.12	2.50346G	-53.17	2.49297G	-41.97	1

BT-LE(1Mbps)

CSEndB-DTS

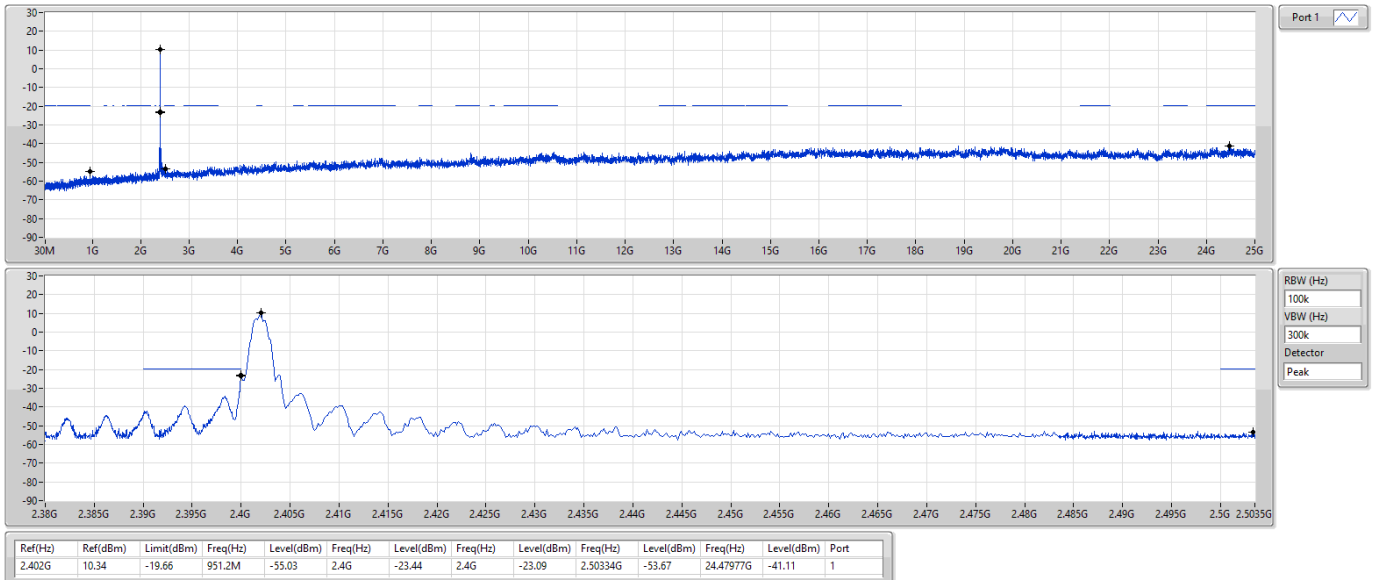
2480MHz



BT-LE2(2Mbps)_1TX

CSEndB-DTS

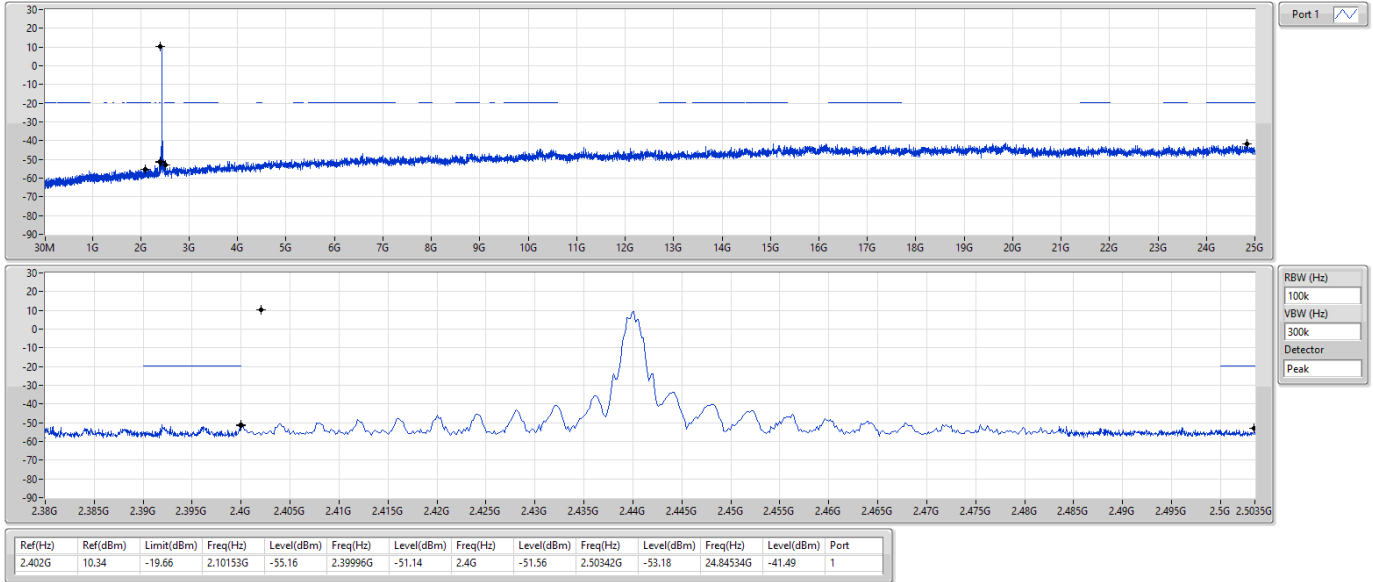
2402MHz



BT-LE2(2Mbps)_1TX

CSEndB-DTS

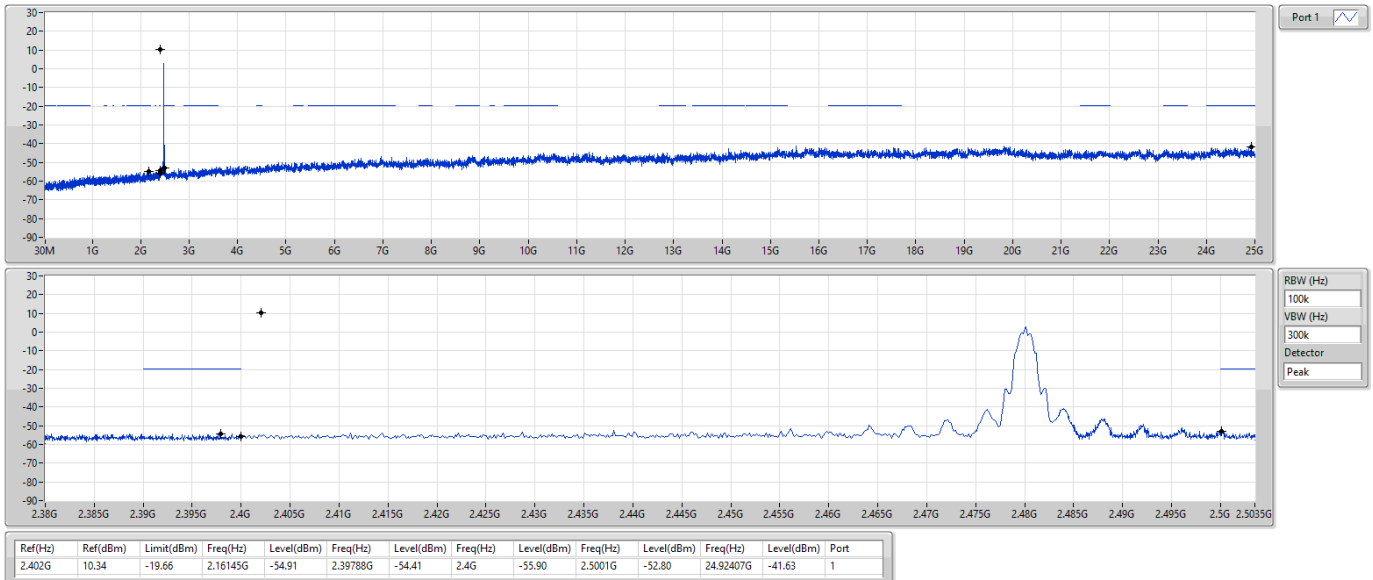
2440MHz



BT-LE2(2Mbps)_1TX

CSEndB-DTS

2480MHz





Summary

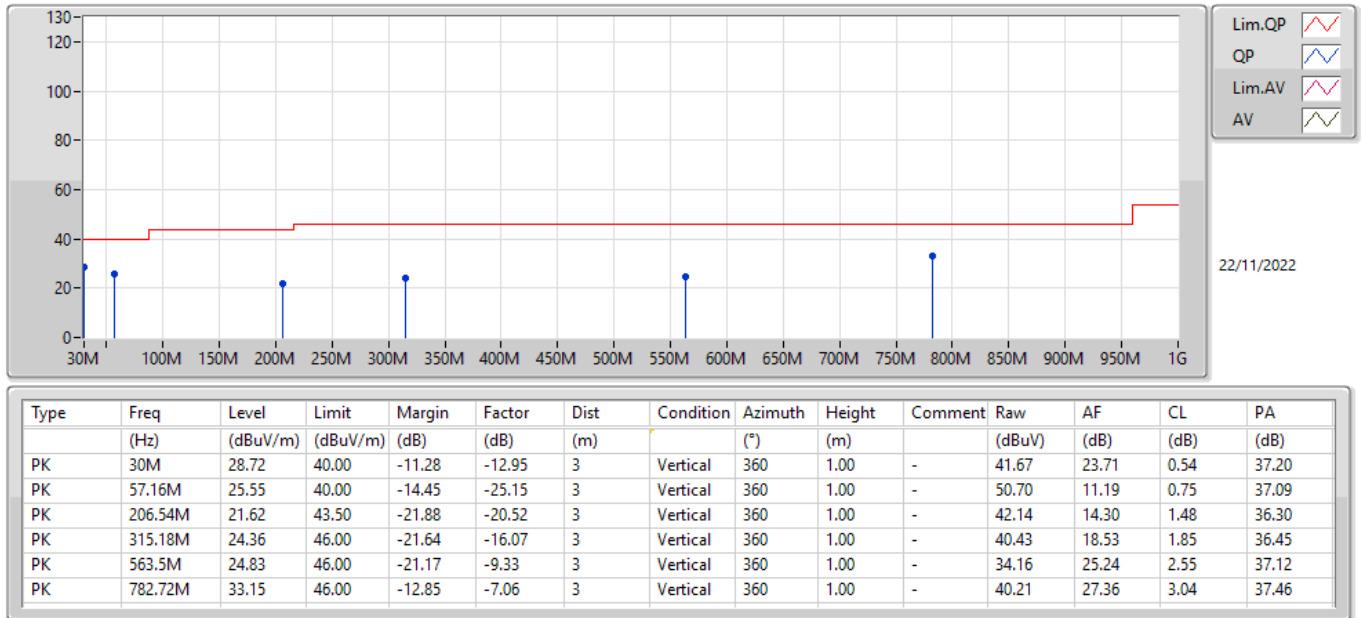
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	37.76M	34.76	40.00	-5.24	3	Horizontal	0	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	30M	28.72	40.00	-11.28	3	Vertical	360	1.00	-
2440MHz	Pass	PK	57.16M	25.55	40.00	-14.45	3	Vertical	360	1.00	-
2440MHz	Pass	PK	206.54M	21.62	43.50	-21.88	3	Vertical	360	1.00	-
2440MHz	Pass	PK	315.18M	24.36	46.00	-21.64	3	Vertical	360	1.00	-
2440MHz	Pass	PK	563.5M	24.83	46.00	-21.17	3	Vertical	360	1.00	-
2440MHz	Pass	PK	782.72M	33.15	46.00	-12.85	3	Vertical	360	1.00	-
2440MHz	Pass	PK	37.76M	34.76	40.00	-5.24	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	179.38M	25.41	43.50	-18.09	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	266.68M	28.69	46.00	-17.31	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	332.64M	28.46	46.00	-17.54	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	425.76M	26.74	46.00	-19.26	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	934.04M	31.39	46.00	-14.61	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	30M	29.00	40.00	-11.00	3	Vertical	360	1.00	-
2440MHz	Pass	PK	84.32M	20.26	40.00	-19.74	3	Vertical	360	1.00	-
2440MHz	Pass	PK	206.54M	24.23	43.50	-19.27	3	Vertical	360	1.00	-
2440MHz	Pass	PK	278.32M	22.26	46.00	-23.74	3	Vertical	360	1.00	-
2440MHz	Pass	PK	487.84M	23.20	46.00	-22.80	3	Vertical	360	1.00	-
2440MHz	Pass	PK	947.62M	31.71	46.00	-14.29	3	Vertical	360	1.00	-
2440MHz	Pass	PK	30M	24.96	40.00	-15.04	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	95.96M	22.91	43.50	-20.59	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	299.66M	30.49	46.00	-15.51	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	317.12M	22.76	46.00	-23.24	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	672.14M	25.68	46.00	-20.32	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	945.68M	31.15	46.00	-14.85	3	Horizontal	0	1.00	-

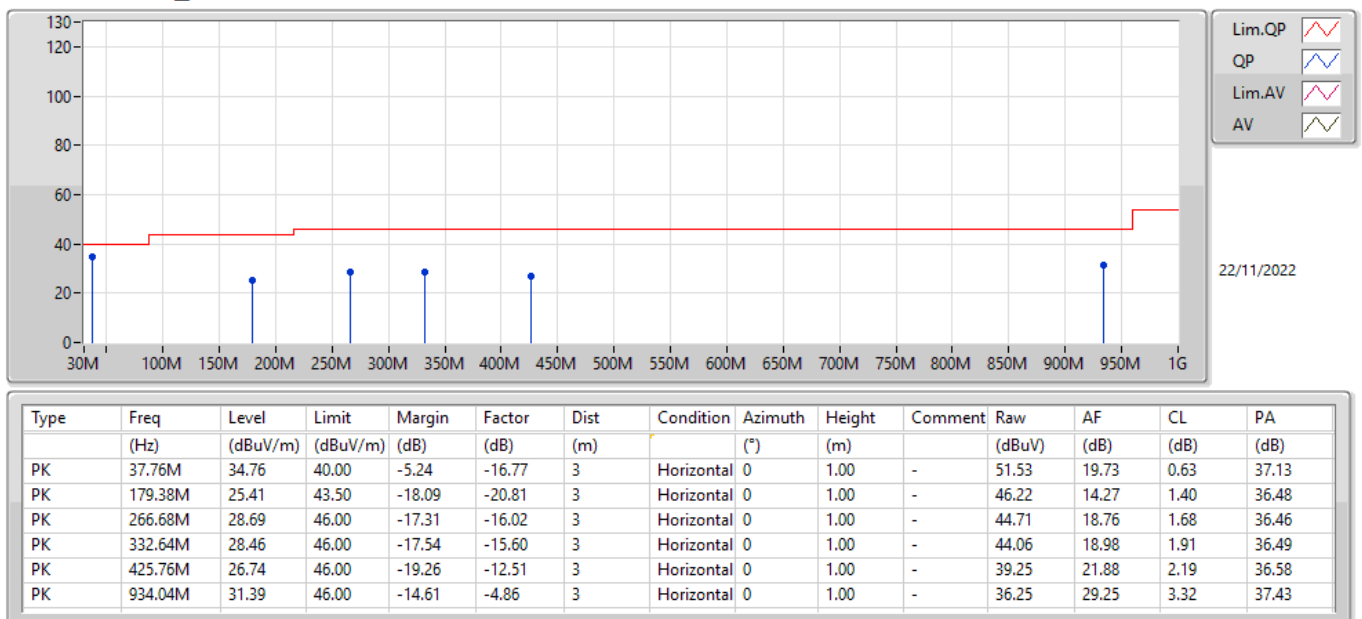
BT-LE(2Mbps)

2440MHz_Test fixture 3.3V



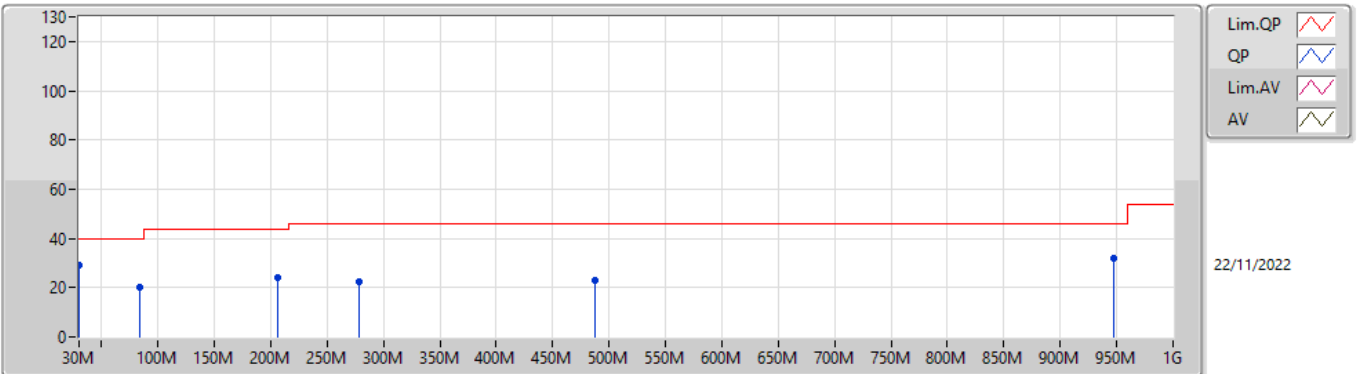
BT-LE(2Mbps)

2440MHz_Test fixture 3.3V



BT-LE(2Mbps)

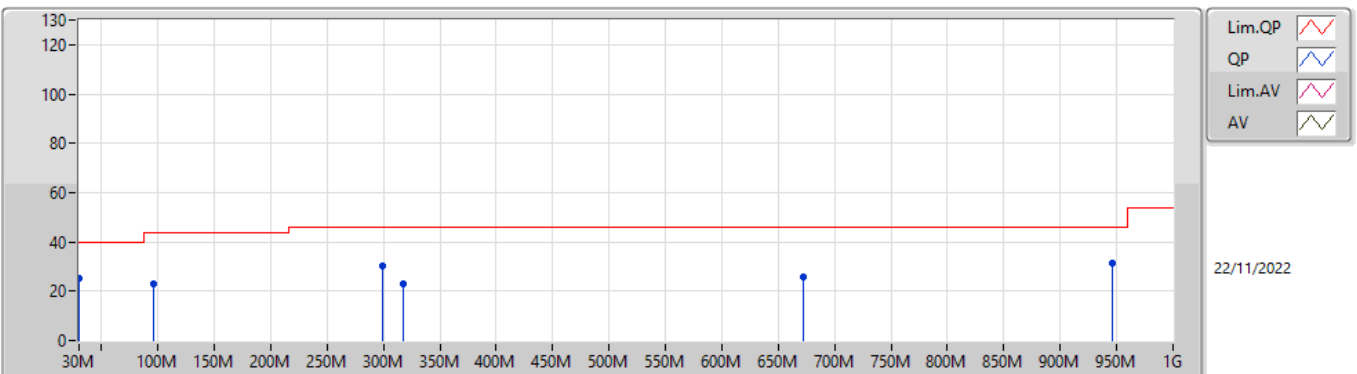
2440MHz_Test fixture 5V



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30M	29.00	40.00	-11.00	-12.95	3	Vertical	360	1.00	-	41.95	23.71	0.54	37.20
PK	84.32M	20.26	40.00	-19.74	-22.75	3	Vertical	360	1.00	-	43.01	13.10	0.92	36.77
PK	206.54M	24.23	43.50	-19.27	-20.52	3	Vertical	360	1.00	-	44.75	14.30	1.48	36.30
PK	278.32M	22.26	46.00	-23.74	-16.81	3	Vertical	360	1.00	-	39.07	17.91	1.72	36.44
PK	487.84M	23.20	46.00	-22.80	-11.59	3	Vertical	360	1.00	-	34.79	22.94	2.37	36.90
PK	947.62M	31.71	46.00	-14.29	-4.18	3	Vertical	360	1.00	-	35.89	29.83	3.35	37.36

BT-LE(2Mbps)

2440MHz_Test fixture 5V



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30M	24.96	40.00	-15.04	-12.95	3	Horizontal	0	1.00	-	37.91	23.71	0.54	37.20
PK	95.96M	22.91	43.50	-20.59	-20.97	3	Horizontal	0	1.00	-	43.88	14.71	0.98	36.66
PK	299.66M	30.49	46.00	-15.51	-16.26	3	Horizontal	0	1.00	-	46.75	18.36	1.79	36.41
PK	317.12M	22.76	46.00	-23.24	-16.03	3	Horizontal	0	1.00	-	38.79	18.56	1.86	36.45
PK	672.14M	25.68	46.00	-20.32	-8.91	3	Horizontal	0	1.00	-	34.59	25.53	2.81	37.25
PK	945.68M	31.15	46.00	-14.85	-4.26	3	Horizontal	0	1.00	-	35.41	29.76	3.35	37.37



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	PK	2.4838G	71.42	74.00	-2.58	3	Horizontal	163	1.14	-
BT-LE(2Mbps)	Pass	AV	2.484G	51.81	54.00	-2.19	3	Horizontal	165	1.14	-

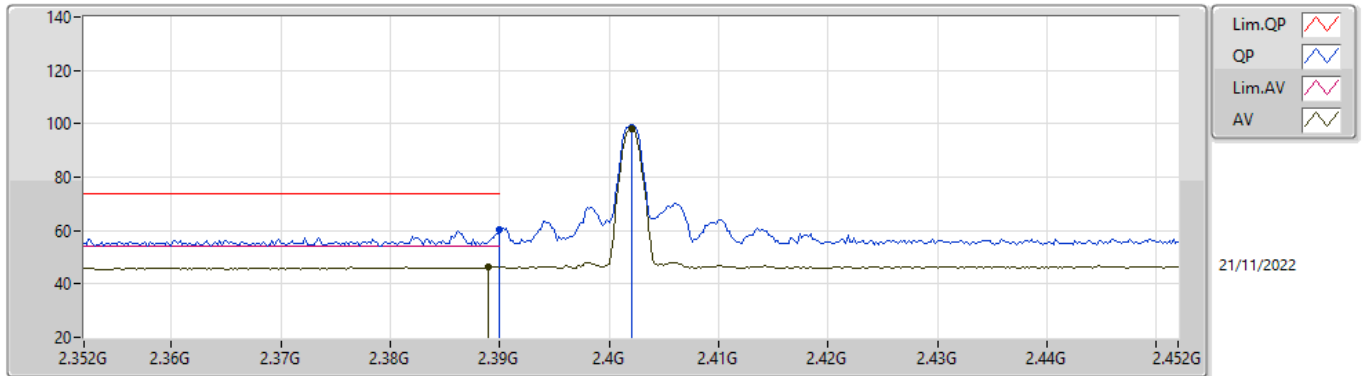
Result

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	2.389G	46.32	54.00	-7.68	3	Vertical	346	2.76	-
2402MHz	Pass	AV	2.402G	97.94	Inf	-Inf	3	Vertical	346	2.76	-
2402MHz	Pass	PK	2.39G	60.53	74.00	-13.47	3	Vertical	346	2.76	-
2402MHz	Pass	PK	2.402G	98.52	Inf	-Inf	3	Vertical	346	2.76	-
2402MHz	Pass	AV	2.39G	47.26	54.00	-6.74	3	Horizontal	152	1.21	-
2402MHz	Pass	AV	2.402G	105.50	Inf	-Inf	3	Horizontal	152	1.21	-
2402MHz	Pass	PK	2.39G	66.38	74.00	-7.62	3	Horizontal	152	1.21	-
2402MHz	Pass	PK	2.4018G	106.11	Inf	-Inf	3	Horizontal	152	1.21	-
2402MHz	Pass	AV	4.80402G	35.62	54.00	-18.38	3	Vertical	265	1.11	-
2402MHz	Pass	PK	4.80458G	46.40	74.00	-27.60	3	Vertical	265	1.11	-
2402MHz	Pass	AV	4.80404G	39.27	54.00	-14.73	3	Horizontal	64	1.02	-
2402MHz	Pass	PK	4.80356G	48.16	74.00	-25.84	3	Horizontal	64	1.02	-
2440MHz	Pass	AV	2.384G	46.18	54.00	-7.82	3	Vertical	170	2.97	-
2440MHz	Pass	AV	2.44G	94.72	Inf	-Inf	3	Vertical	170	2.97	-
2440MHz	Pass	AV	2.4868G	47.22	54.00	-6.78	3	Vertical	170	2.97	-
2440MHz	Pass	PK	2.3736G	56.51	74.00	-17.49	3	Vertical	170	2.97	-
2440MHz	Pass	PK	2.4404G	95.38	Inf	-Inf	3	Vertical	170	2.97	-
2440MHz	Pass	PK	2.492G	56.84	74.00	-17.16	3	Vertical	170	2.97	-
2440MHz	Pass	AV	2.3692G	46.20	54.00	-7.80	3	Horizontal	161	1.02	-
2440MHz	Pass	AV	2.44G	105.40	Inf	-Inf	3	Horizontal	161	1.02	-
2440MHz	Pass	AV	2.4996G	47.37	54.00	-6.63	3	Horizontal	161	1.02	-
2440MHz	Pass	PK	2.3876G	56.80	74.00	-17.20	3	Horizontal	161	1.02	-
2440MHz	Pass	PK	2.4396G	106.06	Inf	-Inf	3	Horizontal	161	1.02	-
2440MHz	Pass	PK	2.4868G	57.72	74.00	-16.28	3	Horizontal	161	1.02	-
2440MHz	Pass	AV	4.87976G	35.25	54.00	-18.75	3	Vertical	232	1.32	-
2440MHz	Pass	PK	4.88001G	46.21	74.00	-27.79	3	Vertical	232	1.32	-
2440MHz	Pass	AV	4.87994G	39.75	54.00	-14.25	3	Horizontal	78	1.00	-
2440MHz	Pass	PK	4.88007G	49.44	74.00	-24.56	3	Horizontal	78	1.00	-
2480MHz	Pass	AV	2.48G	91.41	Inf	-Inf	3	Vertical	0	2.70	-
2480MHz	Pass	AV	2.4838G	47.18	54.00	-6.82	3	Vertical	0	2.70	-
2480MHz	Pass	PK	2.4798G	92.11	Inf	-Inf	3	Vertical	0	2.70	-
2480MHz	Pass	PK	2.484G	63.45	74.00	-10.55	3	Vertical	0	2.70	-
2480MHz	Pass	AV	2.48G	99.21	Inf	-Inf	3	Horizontal	163	1.14	-
2480MHz	Pass	AV	2.4838G	48.91	54.00	-5.09	3	Horizontal	163	1.14	-
2480MHz	Pass	PK	2.48G	99.88	Inf	-Inf	3	Horizontal	163	1.14	-
2480MHz	Pass	PK	2.4838G	71.42	74.00	-2.58	3	Horizontal	163	1.14	-
2480MHz	Pass	AV	4.9599G	35.24	54.00	-18.76	3	Vertical	235	1.50	-
2480MHz	Pass	PK	4.95954G	46.63	74.00	-27.37	3	Vertical	235	1.50	-
2480MHz	Pass	AV	4.95996G	36.99	54.00	-17.01	3	Horizontal	205	1.00	-
2480MHz	Pass	PK	4.95956G	47.62	74.00	-26.38	3	Horizontal	205	1.00	-
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.39G	48.22	54.00	-5.78	3	Vertical	350	2.76	-
2402MHz	Pass	AV	2.402G	97.79	Inf	-Inf	3	Vertical	350	2.76	-
2402MHz	Pass	PK	2.39G	61.07	74.00	-12.93	3	Vertical	350	2.76	-
2402MHz	Pass	PK	2.4016G	98.67	Inf	-Inf	3	Vertical	350	2.76	-
2402MHz	Pass	AV	2.39G	50.21	54.00	-3.79	3	Horizontal	154	1.21	-
2402MHz	Pass	AV	2.402G	105.25	Inf	-Inf	3	Horizontal	154	1.21	-
2402MHz	Pass	PK	2.39G	66.56	74.00	-7.44	3	Horizontal	154	1.21	-
2402MHz	Pass	PK	2.4026G	106.08	Inf	-Inf	3	Horizontal	154	1.21	-
2402MHz	Pass	AV	4.79591G	35.82	54.00	-18.18	3	Vertical	260	1.41	-
2402MHz	Pass	PK	4.80287G	46.26	74.00	-27.74	3	Vertical	260	1.41	-
2402MHz	Pass	AV	4.80388G	39.26	54.00	-14.74	3	Horizontal	66	1.02	-
2402MHz	Pass	PK	4.804G	48.66	74.00	-25.34	3	Horizontal	66	1.02	-
2440MHz	Pass	AV	2.3772G	48.02	54.00	-5.98	3	Vertical	173	2.97	-
2440MHz	Pass	AV	2.44G	94.37	Inf	-Inf	3	Vertical	173	2.97	-
2440MHz	Pass	AV	2.4916G	48.95	54.00	-5.05	3	Vertical	173	2.97	-
2440MHz	Pass	PK	2.3592G	56.75	74.00	-17.25	3	Vertical	173	2.97	-
2440MHz	Pass	PK	2.4404G	95.38	Inf	-Inf	3	Vertical	173	2.97	-
2440MHz	Pass	PK	2.4972G	57.64	74.00	-16.36	3	Vertical	173	2.97	-
2440MHz	Pass	AV	2.3424G	47.70	54.00	-6.30	3	Horizontal	160	1.01	-

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	105.31	Inf	-Inf	3	Horizontal	160	1.01	-
2440MHz	Pass	AV	2.484G	48.96	54.00	-5.04	3	Horizontal	160	1.01	-
2440MHz	Pass	PK	2.3892G	57.76	74.00	-16.24	3	Horizontal	160	1.01	-
2440MHz	Pass	PK	2.44G	106.20	Inf	-Inf	3	Horizontal	160	1.01	-
2440MHz	Pass	PK	2.492G	58.41	74.00	-15.59	3	Horizontal	160	1.01	-
2440MHz	Pass	AV	4.87976G	36.00	54.00	-18.00	3	Vertical	295	1.18	-
2440MHz	Pass	PK	4.87924G	45.60	74.00	-28.40	3	Vertical	295	1.18	-
2440MHz	Pass	AV	4.87988G	39.79	54.00	-14.21	3	Horizontal	79	1.00	-
2440MHz	Pass	PK	4.87912G	47.93	74.00	-26.07	3	Horizontal	79	1.00	-
2480MHz	Pass	AV	2.48G	89.57	Inf	-Inf	3	Vertical	360	2.70	-
2480MHz	Pass	AV	2.4836G	49.21	54.00	-4.79	3	Vertical	360	2.70	-
2480MHz	Pass	PK	2.4794G	90.51	Inf	-Inf	3	Vertical	360	2.70	-
2480MHz	Pass	PK	2.484G	62.63	74.00	-11.37	3	Vertical	360	2.70	-
2480MHz	Pass	AV	2.48G	97.68	Inf	-Inf	3	Horizontal	165	1.14	-
2480MHz	Pass	AV	2.484G	51.81	54.00	-2.19	3	Horizontal	165	1.14	-
2480MHz	Pass	PK	2.48G	98.56	Inf	-Inf	3	Horizontal	165	1.14	-
2480MHz	Pass	PK	2.484G	69.39	74.00	-4.61	3	Horizontal	165	1.14	-
2480MHz	Pass	AV	4.95825G	36.70	54.00	-17.30	3	Vertical	109	1.08	-
2480MHz	Pass	PK	4.96064G	46.32	74.00	-27.68	3	Vertical	109	1.08	-
2480MHz	Pass	AV	4.9601G	38.30	54.00	-15.70	3	Horizontal	180	1.20	-
2480MHz	Pass	PK	4.95911G	47.38	74.00	-26.62	3	Horizontal	180	1.20	-

BT-LE(1Mbps)

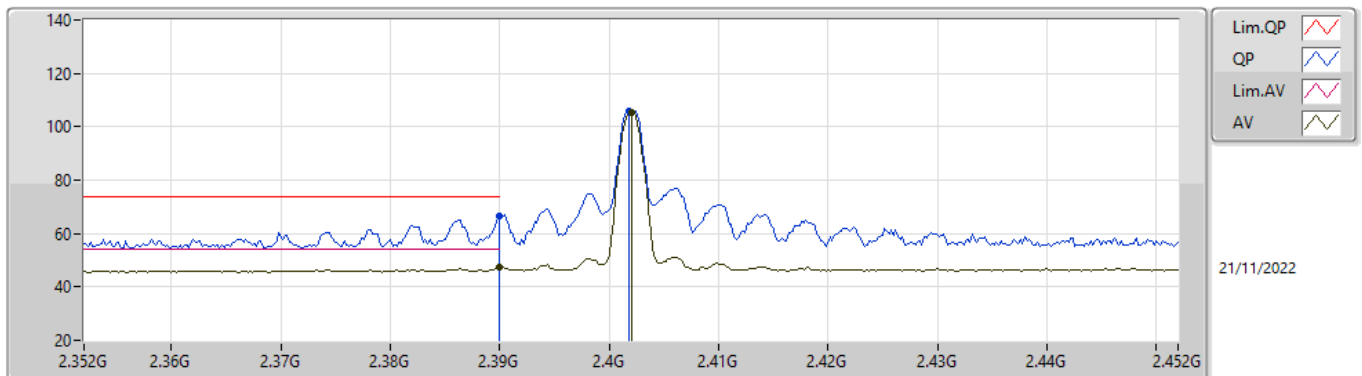
2402MHz_TX



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	2.389G	46.32	54.00	-7.68	31.59	3	Vertical	346	2.76	-	14.73	27.43	4.16	-
AV	2.402G	97.94	Inf	-Inf	31.67	3	Vertical	346	2.76	-	66.27	27.50	4.17	-
PK	2.39G	60.53	74.00	-13.47	31.60	3	Vertical	346	2.76	-	28.93	27.44	4.16	-
PK	2.402G	98.52	Inf	-Inf	31.67	3	Vertical	346	2.76	-	66.85	27.50	4.17	-

BT-LE(1Mbps)

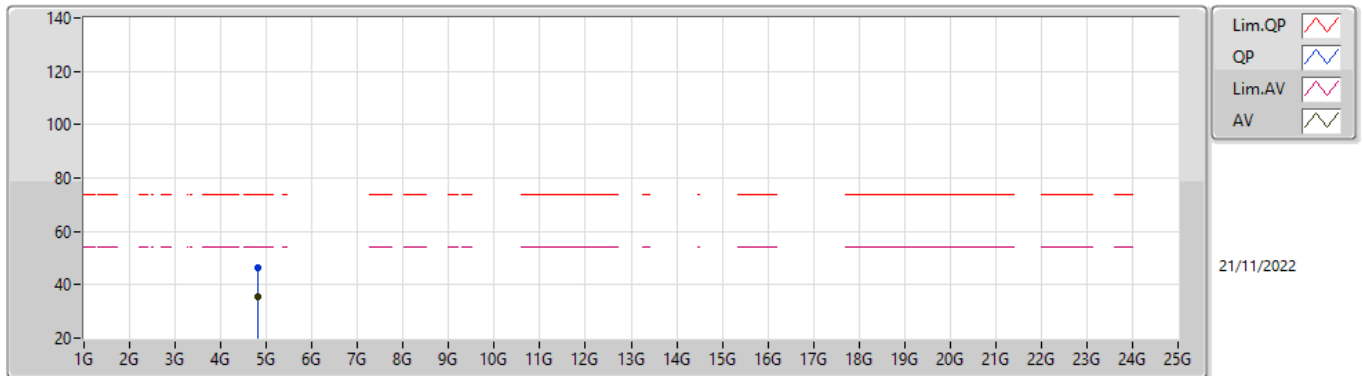
2402MHz_TX



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	2.39G	47.26	54.00	-6.74	31.60	3	Horizontal	152	1.21	-	15.66	27.44	4.16	-
AV	2.402G	105.50	Inf	-Inf	31.67	3	Horizontal	152	1.21	-	73.83	27.50	4.17	-
PK	2.39G	66.38	74.00	-7.62	31.60	3	Horizontal	152	1.21	-	34.78	27.44	4.16	-
PK	2.4018G	106.11	Inf	-Inf	31.67	3	Horizontal	152	1.21	-	74.44	27.50	4.17	-

BT-LE(1Mbps)

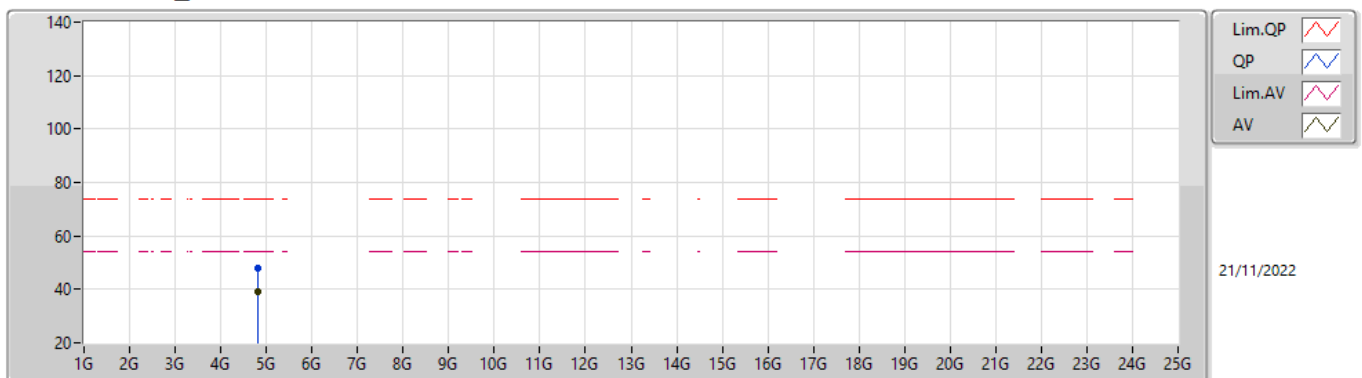
2402MHz_TX



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	4.80402G	35.62	54.00	-18.38	3.33	3	Vertical	265	1.11	-	32.29	32.32	5.67	34.66
PK	4.80458G	46.40	74.00	-27.60	3.34	3	Vertical	265	1.11	-	43.06	32.33	5.67	34.66

BT-LE(1Mbps)

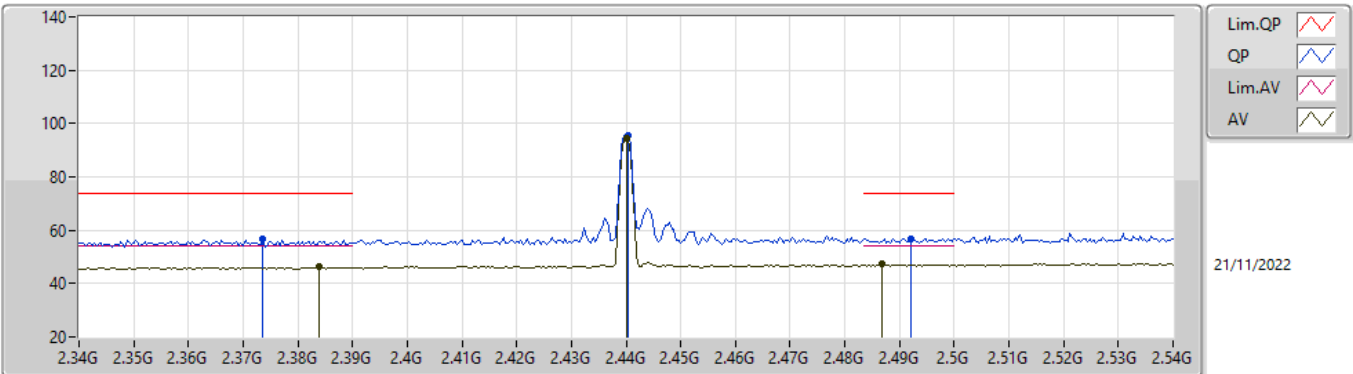
2402MHz_TX



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	4.80404G	39.27	54.00	-14.73	3.33	3	Horizontal	64	1.02	-	35.94	32.32	5.67	34.66
PK	4.80356G	48.16	74.00	-25.84	3.33	3	Horizontal	64	1.02	-	44.83	32.32	5.67	34.66

BT-LE(1Mbps)

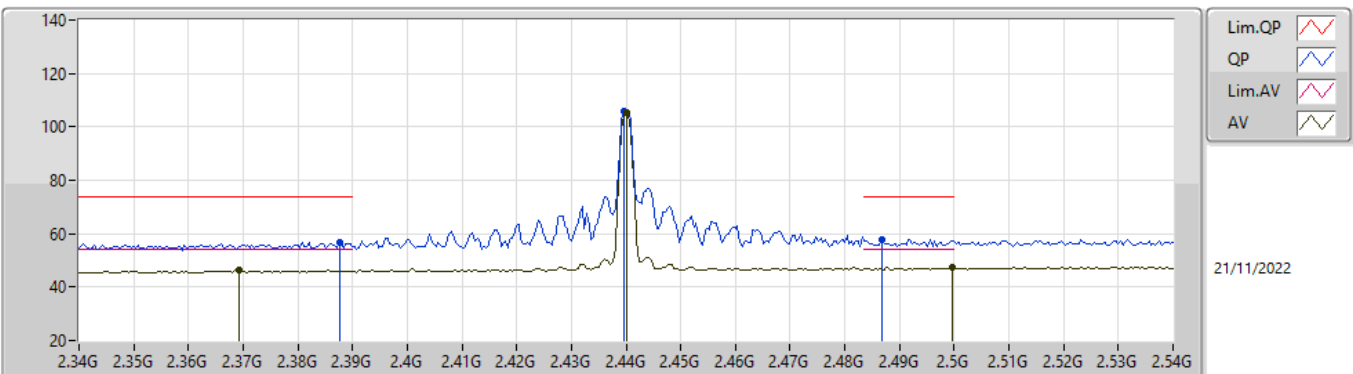
2440MHz_TX



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	46.18	54.00	-7.82	31.55	3	Vertical	170	2.97	-	14.63	27.40	4.15	-
AV	2.44G	94.72	Inf	-Inf	31.77	3	Vertical	170	2.97	-	62.95	27.58	4.19	-
AV	2.4868G	47.22	54.00	-6.78	32.04	3	Vertical	170	2.97	-	15.18	27.82	4.22	-
PK	2.3736G	56.51	74.00	-17.49	31.48	3	Vertical	170	2.97	-	25.03	27.34	4.14	-
PK	2.4404G	95.38	Inf	-Inf	31.77	3	Vertical	170	2.97	-	63.61	27.58	4.19	-
PK	2.492G	56.84	74.00	-17.16	32.08	3	Vertical	170	2.97	-	24.76	27.85	4.23	-

BT-LE(1Mbps)

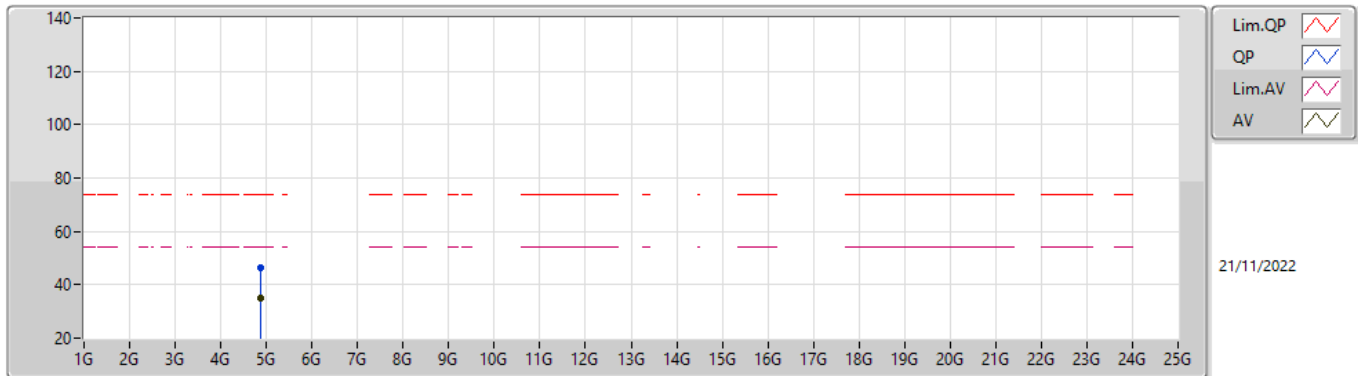
2440MHz_TX



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	2.3692G	46.20	54.00	-7.80	31.46	3	Horizontal	161	1.02	-	14.74	27.32	4.14	-
AV	2.44G	105.40	Inf	-Inf	31.77	3	Horizontal	161	1.02	-	73.63	27.58	4.19	-
AV	2.4996G	47.37	54.00	-6.63	32.13	3	Horizontal	161	1.02	-	15.24	27.90	4.23	-
PK	2.3876G	56.80	74.00	-17.20	31.59	3	Horizontal	161	1.02	-	25.21	27.43	4.16	-
PK	2.4396G	106.06	Inf	-Inf	31.77	3	Horizontal	161	1.02	-	74.29	27.58	4.19	-
PK	2.4868G	57.72	74.00	-16.28	32.04	3	Horizontal	161	1.02	-	25.68	27.82	4.22	-

BT-LE(1Mbps)

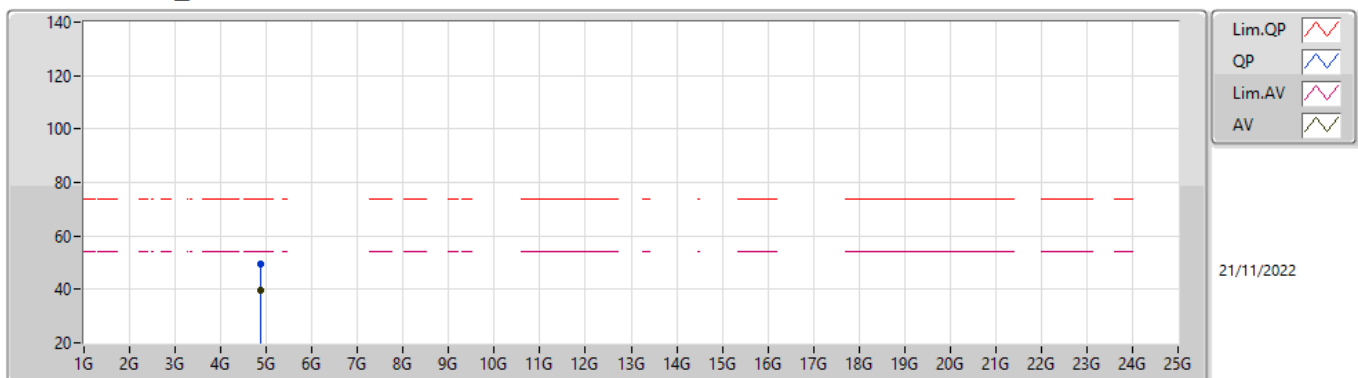
2440MHz_TX



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	4.87976G	35.25	54.00	-18.75	3.79	3	Vertical	232	1.32	-	31.46	32.72	5.72	34.65
PK	4.88001G	46.21	74.00	-27.79	3.79	3	Vertical	232	1.32	-	42.42	32.72	5.72	34.65

BT-LE(1Mbps)

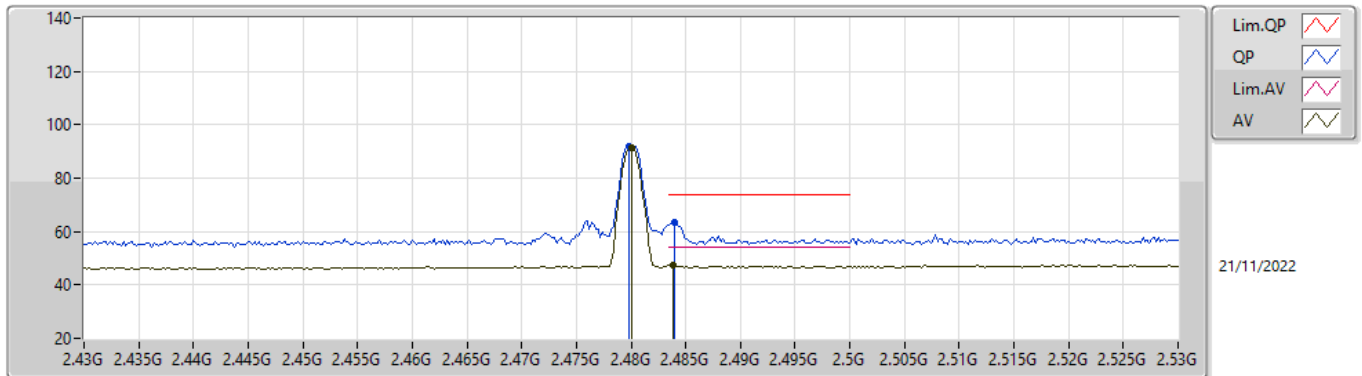
2440MHz_TX



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	4.87994G	39.75	54.00	-14.25	3.79	3	Horizontal	78	1.00	-	35.96	32.72	5.72	34.65
PK	4.88007G	49.44	74.00	-24.56	3.79	3	Horizontal	78	1.00	-	45.65	32.72	5.72	34.65

BT-LE(1Mbps)

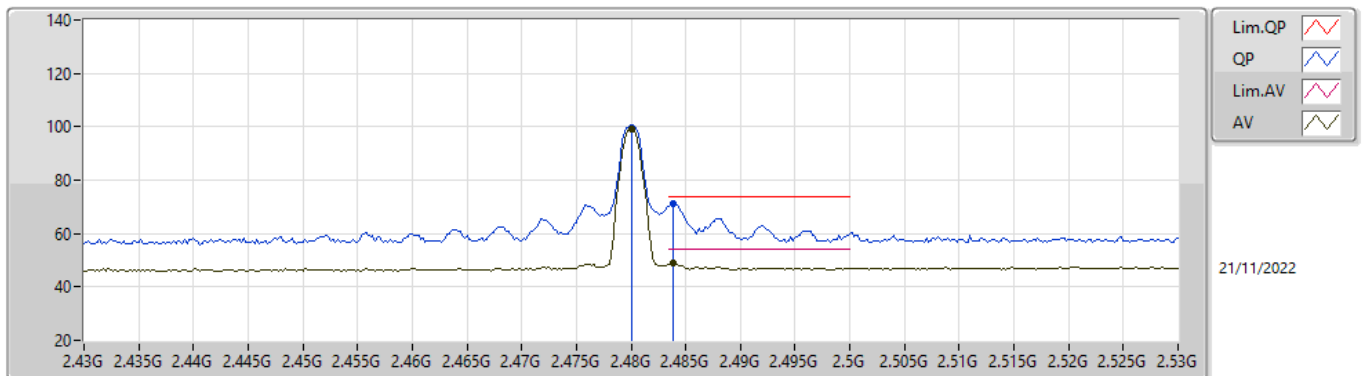
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	91.41	Inf	-Inf	32.00	3	Vertical	0	2.70	-	59.41	27.78	4.22	-
AV	2.4838G	47.18	54.00	-6.82	32.02	3	Vertical	0	2.70	-	15.16	27.80	4.22	-
PK	2.4798G	92.11	Inf	-Inf	32.00	3	Vertical	0	2.70	-	60.11	27.78	4.22	-
PK	2.484G	63.45	74.00	-10.55	32.02	3	Vertical	0	2.70	-	31.43	27.80	4.22	-

BT-LE(1Mbps)

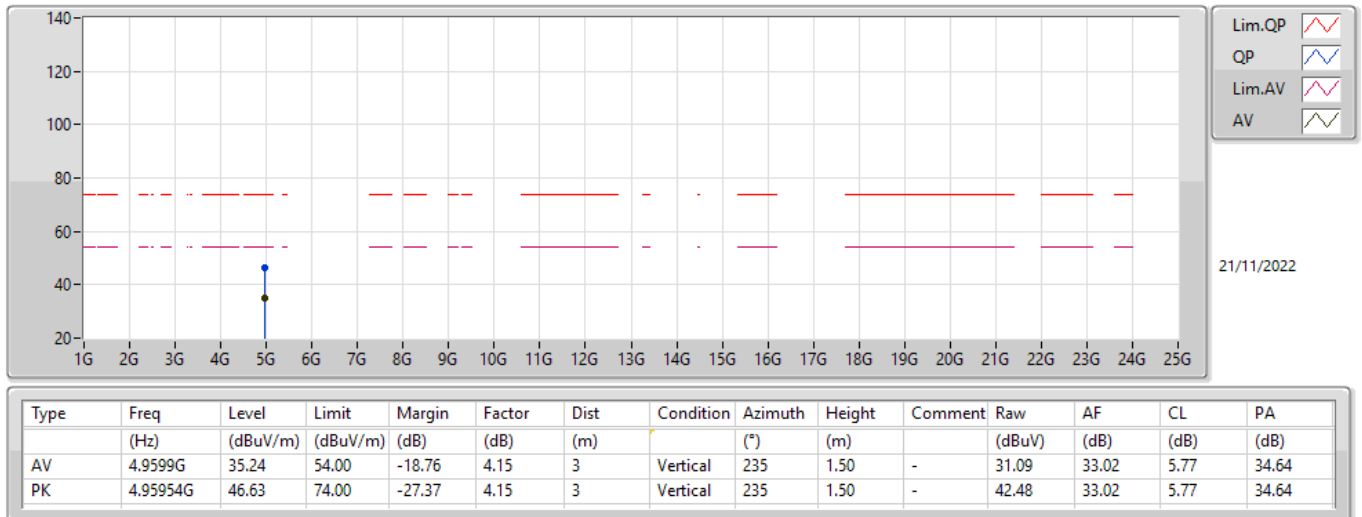
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	99.21	Inf	-Inf	32.00	3	Horizontal	163	1.14	-	67.21	27.78	4.22	-
AV	2.4838G	48.91	54.00	-5.09	32.02	3	Horizontal	163	1.14	-	16.89	27.80	4.22	-
PK	2.48G	99.88	Inf	-Inf	32.00	3	Horizontal	163	1.14	-	67.88	27.78	4.22	-
PK	2.4838G	71.42	74.00	-2.58	32.02	3	Horizontal	163	1.14	-	39.40	27.80	4.22	-

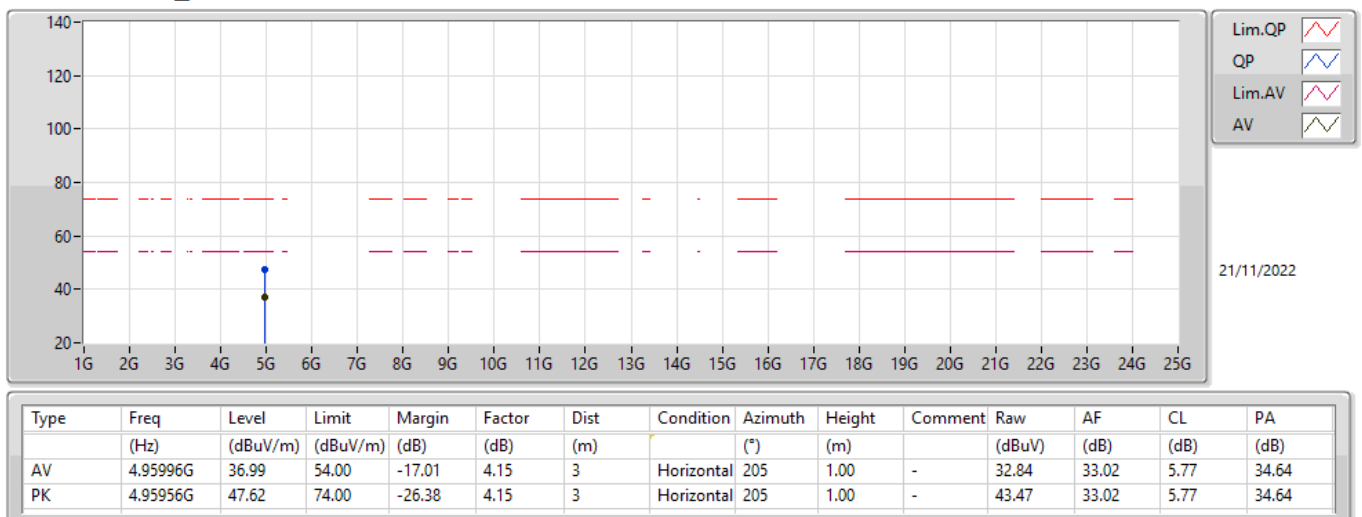
BT-LE(1Mbps)

2480MHz_TX



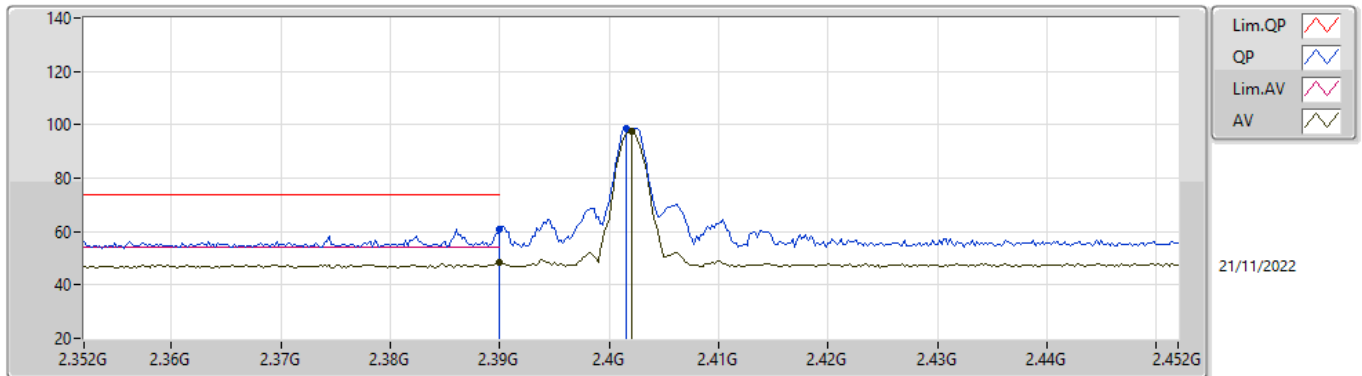
BT-LE(1Mbps)

2480MHz_TX



BT-LE(2Mbps)

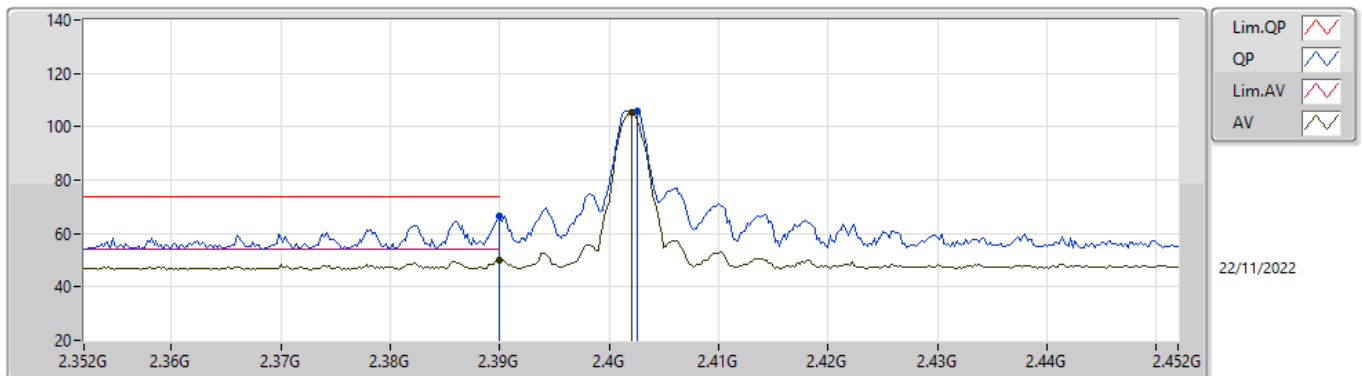
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	48.22	54.00	-5.78	31.60	3	Vertical	350	2.76	-	16.62	27.44	4.16	-
AV	2.402G	97.79	Inf	-Inf	31.67	3	Vertical	350	2.76	-	66.12	27.50	4.17	-
PK	2.39G	61.07	74.00	-12.93	31.60	3	Vertical	350	2.76	-	29.47	27.44	4.16	-
PK	2.4016G	98.67	Inf	-Inf	31.67	3	Vertical	350	2.76	-	67.00	27.50	4.17	-

BT-LE(2Mbps)

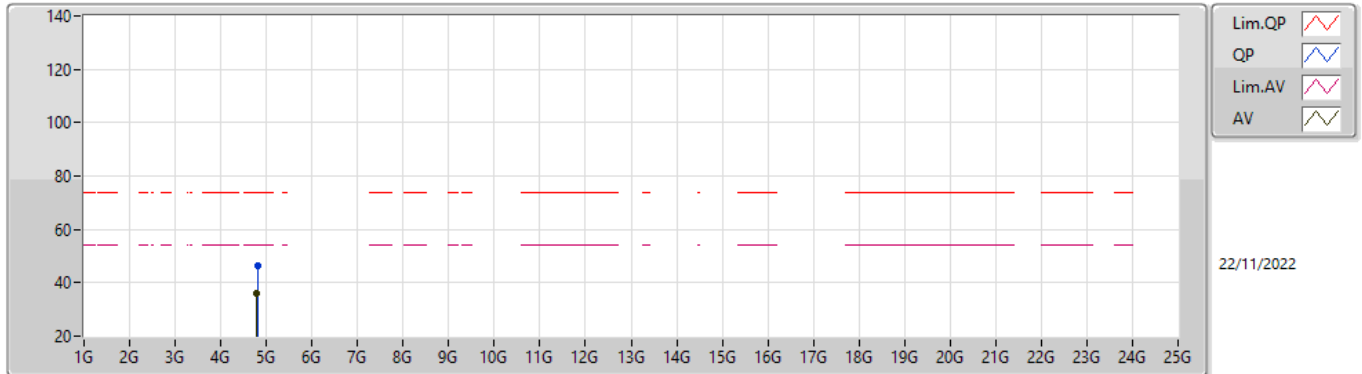
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	50.21	54.00	-3.79	31.60	3	Horizontal	154	1.21	-	18.61	27.44	4.16	-
AV	2.402G	105.25	Inf	-Inf	31.67	3	Horizontal	154	1.21	-	73.58	27.50	4.17	-
PK	2.39G	66.56	74.00	-7.44	31.60	3	Horizontal	154	1.21	-	34.96	27.44	4.16	-
PK	2.4026G	106.08	Inf	-Inf	31.68	3	Horizontal	154	1.21	-	74.40	27.51	4.17	-

BT-LE(2Mbps)

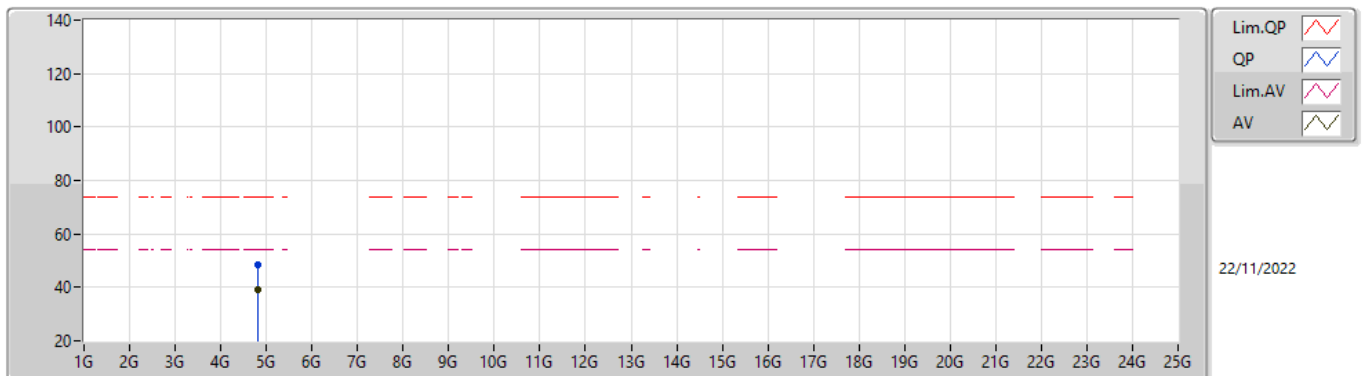
2402MHz_TX



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	4.79591G	35.82	54.00	-18.18	3.30	3	Vertical	260	1.41	-	32.52	32.29	5.67	34.66
PK	4.80287G	46.26	74.00	-27.74	3.33	3	Vertical	260	1.41	-	42.93	32.32	5.67	34.66

BT-LE(2Mbps)

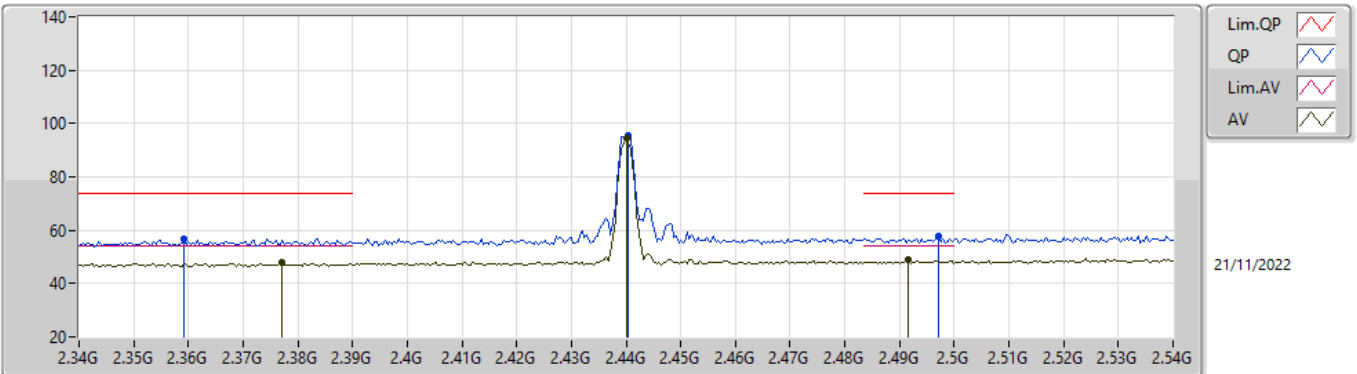
2402MHz_TX



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	4.80388G	39.26	54.00	-14.74	3.33	3	Horizontal	66	1.02	-	35.93	32.32	5.67	34.66
PK	4.804G	48.66	74.00	-25.34	3.33	3	Horizontal	66	1.02	-	45.33	32.32	5.67	34.66

BT-LE(2Mbps)

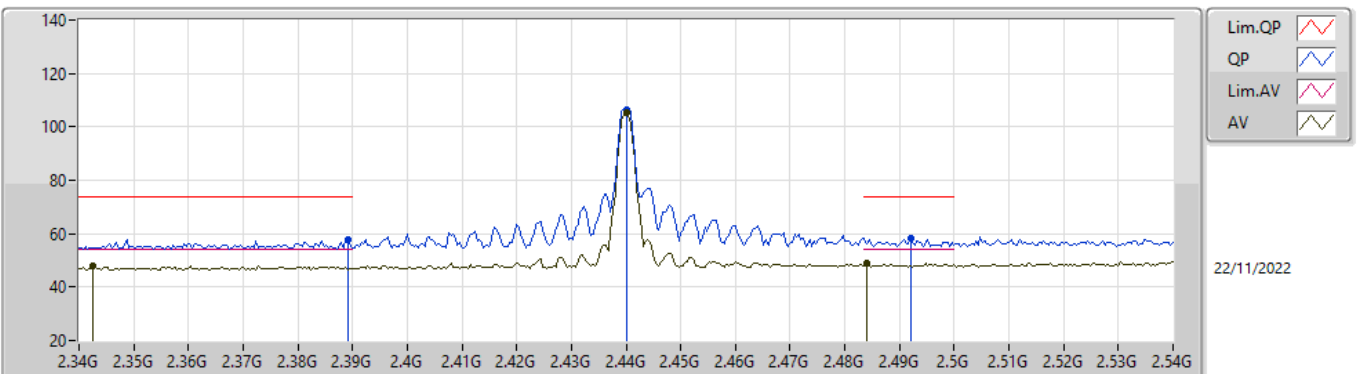
2440MHz_TX



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	2.3772G	48.02	54.00	-5.98	31.51	3	Vertical	173	2.97	-	16.51	27.36	4.15	-
AV	2.44G	94.37	Inf	-Inf	31.77	3	Vertical	173	2.97	-	62.60	27.58	4.19	-
AV	2.4916G	48.95	54.00	-5.05	32.07	3	Vertical	173	2.97	-	16.88	27.85	4.22	-
PK	2.3592G	56.75	74.00	-17.25	31.39	3	Vertical	173	2.97	-	25.36	27.26	4.13	-
PK	2.4404G	95.38	Inf	-Inf	31.77	3	Vertical	173	2.97	-	63.61	27.58	4.19	-
PK	2.4972G	57.64	74.00	-16.36	32.11	3	Vertical	173	2.97	-	25.53	27.88	4.23	-

BT-LE(2Mbps)

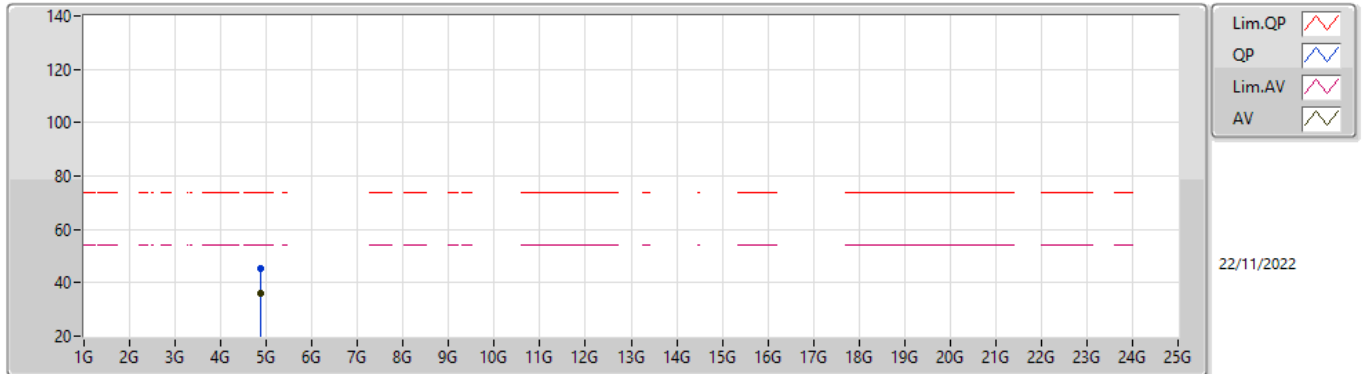
2440MHz_TX



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	2.3424G	47.70	54.00	-6.30	31.29	3	Horizontal	160	1.01	-	16.41	27.17	4.12	-
AV	2.44G	105.31	Inf	-Inf	31.77	3	Horizontal	160	1.01	-	73.54	27.58	4.19	-
AV	2.484G	48.96	54.00	-5.04	32.02	3	Horizontal	160	1.01	-	16.94	27.80	4.22	-
PK	2.3892G	57.76	74.00	-16.24	31.60	3	Horizontal	160	1.01	-	26.16	27.44	4.16	-
PK	2.44G	106.20	Inf	-Inf	31.77	3	Horizontal	160	1.01	-	74.43	27.58	4.19	-
PK	2.492G	58.41	74.00	-15.59	32.08	3	Horizontal	160	1.01	-	26.33	27.85	4.23	-

BT-LE(2Mbps)

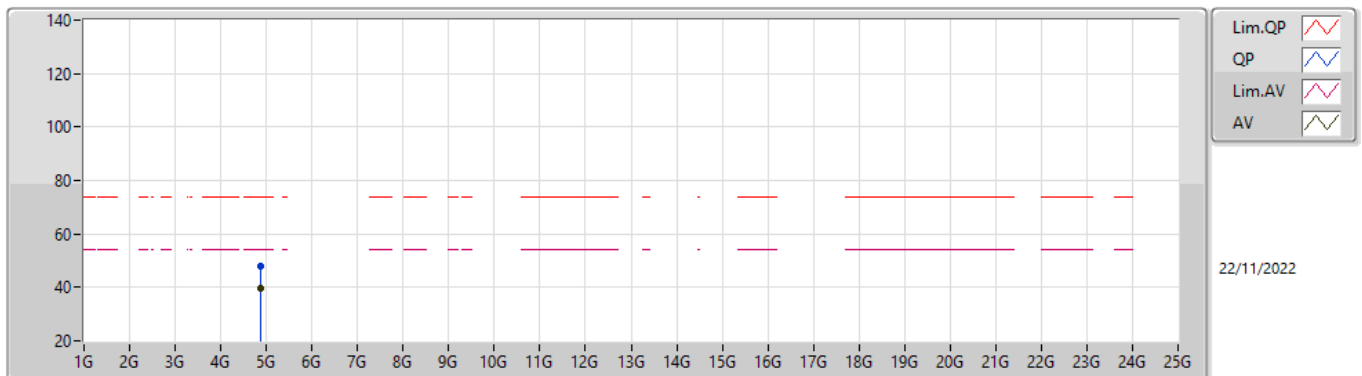
2440MHz_TX



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	4.87976G	36.00	54.00	-18.00	3.79	3	Vertical	295	1.18	-	32.21	32.72	5.72	34.65
PK	4.87924G	45.60	74.00	-28.40	3.79	3	Vertical	295	1.18	-	41.81	32.72	5.72	34.65

BT-LE(2Mbps)

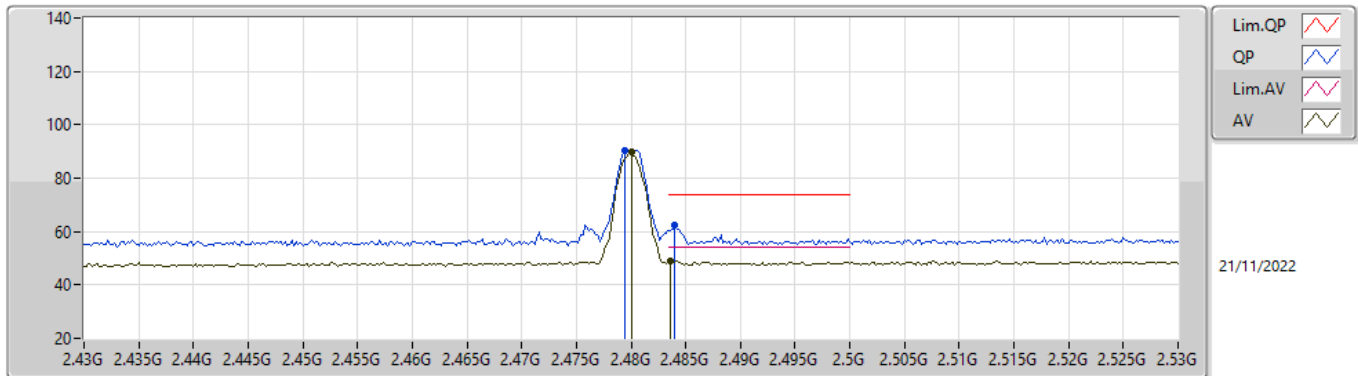
2440MHz_TX



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	39.79	54.00	-14.21	3.79	3	Horizontal	79	1.00	-	36.00	32.72	5.72	34.65
PK	4.87912G	47.93	74.00	-26.07	3.79	3	Horizontal	79	1.00	-	44.14	32.72	5.72	34.65

BT-LE(2Mbps)

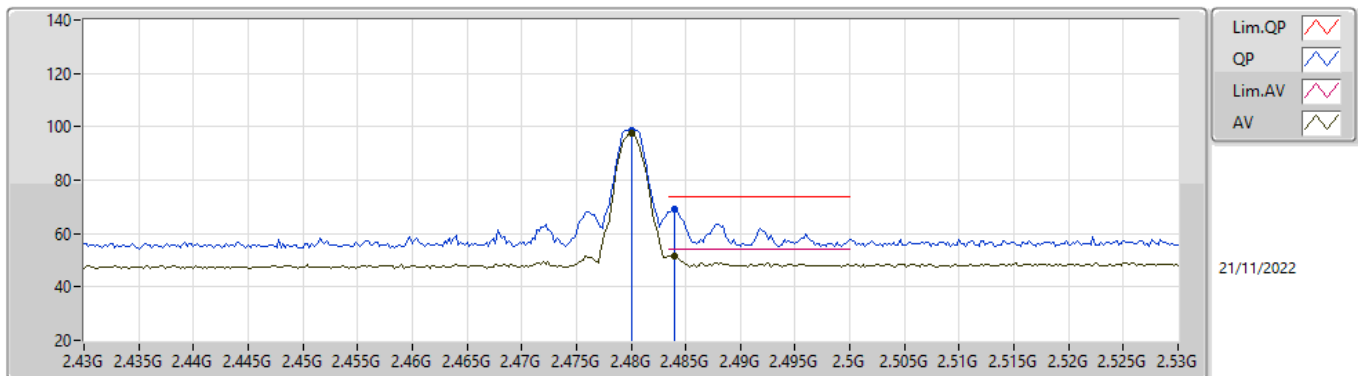
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	89.57	Inf	-Inf	32.00	3	Vertical	360	2.70	-	57.57	27.78	4.22	-
AV	2.4836G	49.21	54.00	-4.79	32.02	3	Vertical	360	2.70	-	17.19	27.80	4.22	-
PK	2.4794G	90.51	Inf	-Inf	32.00	3	Vertical	360	2.70	-	58.51	27.78	4.22	-
PK	2.484G	62.63	74.00	-11.37	32.02	3	Vertical	360	2.70	-	30.61	27.80	4.22	-

BT-LE(2Mbps)

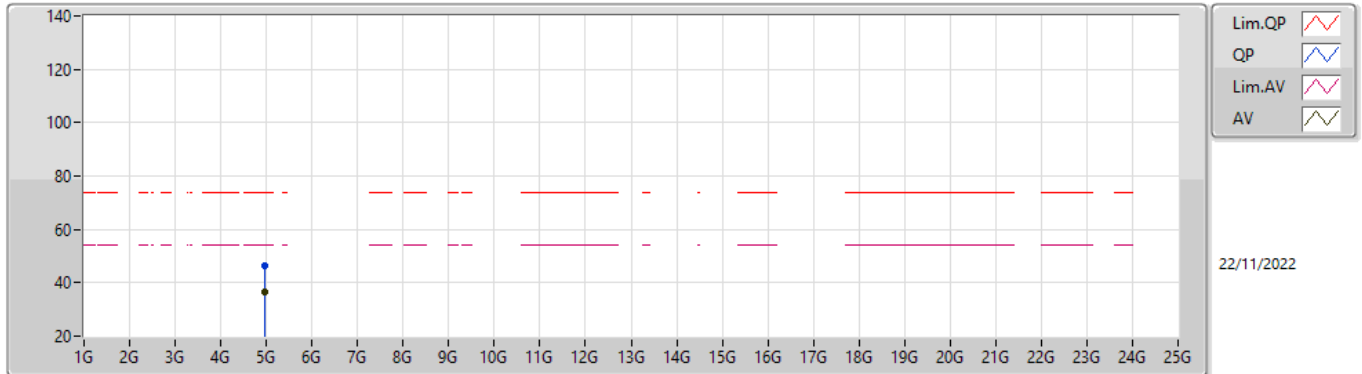
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	97.68	Inf	-Inf	32.00	3	Horizontal	165	1.14	-	65.68	27.78	4.22	-
AV	2.484G	51.81	54.00	-2.19	32.02	3	Horizontal	165	1.14	-	19.79	27.80	4.22	-
PK	2.48G	98.56	Inf	-Inf	32.00	3	Horizontal	165	1.14	-	66.56	27.78	4.22	-
PK	2.484G	69.39	74.00	-4.61	32.02	3	Horizontal	165	1.14	-	37.37	27.80	4.22	-

BT-LE(2Mbps)

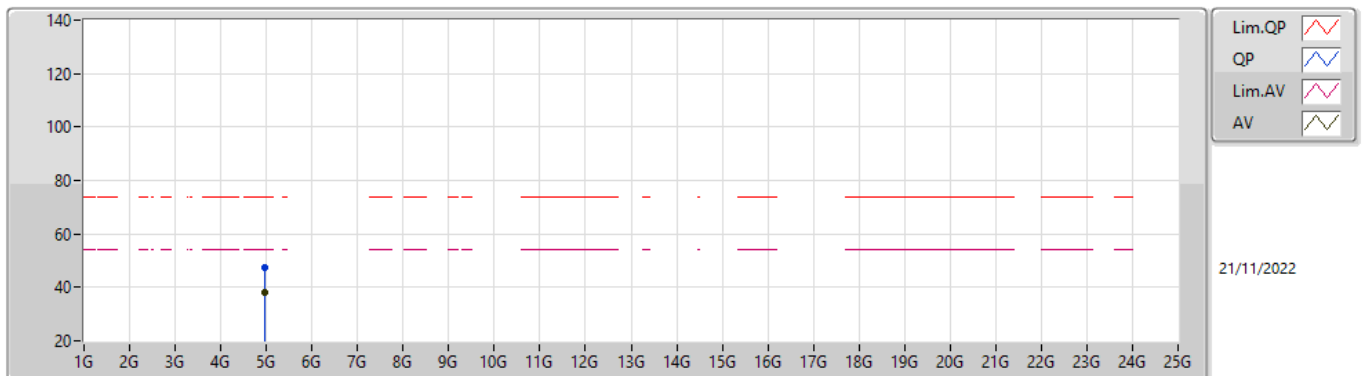
2480MHz_TX



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	4.95825G	36.70	54.00	-17.30	4.14	3	Vertical	109	1.08	-	32.56	33.02	5.76	34.64
PK	4.96064G	46.32	74.00	-27.68	4.15	3	Vertical	109	1.08	-	42.17	33.02	5.77	34.64

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	4.9601G	38.30	54.00	-15.70	4.15	3	Horizontal	180	1.20	-	34.15	33.02	5.77	34.64
PK	4.95911G	47.38	74.00	-26.62	4.15	3	Horizontal	180	1.20	-	43.23	33.02	5.77	34.64