

# FCC Radio Test Report

FCC ID : 2AFD2-IO12  
Equipment : Wireless Hi-Fi Headphones  
Brand Name : DALI  
Model Name : DALI iO-12  
Applicant : DALI A/S  
DALI Allé 1, 9610 Norager Denmark  
Manufacturer : DALI A/S  
DALI Allé 1, 9610 Norager Denmark  
Standard : 47 CFR FCC Part 15.247

The product was received on Mar. 29, 2023, and testing was started from Jun. 16, 2023 and completed on Jun. 28, 2023. 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**



### History of this test report

Report No.	Version	Description	Issued Date
FR332903AL	01	Initial issue of report	Aug. 11, 2023
FR332903AL	02	Revised typo. (This report is the latest version replacing for the report issued on Aug. 11, 2023.)	Aug. 15, 2023



### 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	-

<b>Declaration of Conformity:</b>
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
<b>Comments and explanations:</b>
None

Reviewed by: Ben Tseng

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-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	Gain (dBi)
1	DALI	IO12	Chip	N/A	0.5

For BT function:

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

Only Ant. 1 can be used as transmitting/receiving.

### 1.1.3 EUT Information

Operational Condition	
EUT Power Type	From Power Adapter / From Host System
EUT Function	<input checked="" type="checkbox"/> Point-to-multipoint <input type="checkbox"/> Point-to-point
Type of EUT	
<input checked="" type="checkbox"/>	Stand-alone
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device)
	Combined Equipment - Brand Name / Model No.: ...
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)
	Host System - Brand Name / Model No.: ...
<input type="checkbox"/>	Other:



1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
BT-LE(1Mbps)	0.635	1.97	397.5u	3k
BT-LE(2Mbps)	0.341	4.67	213.75u	10k

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

## 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				
<input checked="" type="checkbox"/>	Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)		
		TEL: 886-3-327-3456	FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Nick Wu	24.1~25.0°C / 43~51%	16/Jun/2023
RF Conducted	TH07-HY	Yuna Lin	23.2~23.9°C / 51~56%	28/Jun/2023
Radiated	03CH02-HY	Vasari Huang	22.5~23.7°C / 51~54%	16/Jun/2023~20/Jun/2023
<input type="checkbox"/>	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.				

## 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%
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	BlueTest3 3.3.10
-----------------------	------------------




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	
<b>Tests Item</b>	AC power-line conducted emissions
<b>Condition</b>	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
<b>Operating Mode</b>	CTX
1	Adapter Mode
2	USB Mode

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

The Worst Case Mode for Following Conformance Tests			
<b>Tests Item</b>	Emissions in Restricted Frequency Bands		
<b>Test Condition</b>	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.		
<b>Operating Mode &lt; 1GHz</b>	CTX		
1	Adapter Mode		
2	USB Mode		
<b>Operating Mode &gt; 1GHz</b>	CTX		
<b>Orthogonal Planes of EUT</b>	<b>X Plane</b>	<b>Y Plane</b>	<b>Z Plane</b>
			
<b>Worst Planes of EUT</b>		V	

## 2.3 Accessories

<b>Battery</b>	Brand Name	Synergy	Model Name	AHB723938PCT-02
	Power Rating	3.7 Vdc, 1110 mAh		
	Type	Lithium-ion Polymer Battery Pack		
<b>USB Cable</b>	Brand Name	DALI	Model Name	4021XW01951ZAU
	Signal Line	1.2 meter, D-shielded cable, w/o ferrite core		
<b>Audio Cable-1</b>	Brand Name	DALI	Model Name	4021XW01952ZAG
	Signal Line	1.2 meter, non-shielded cable, w/o ferrite core		
<b>Audio Cable-2</b>	Brand Name	DALI	Model Name	4021XW01961ZAG
	Signal Line	3.0 meter, non-shielded cable, w/o ferrite core		
<b>Connector (3.5mm to 6.3 mm)</b>	Brand Name	DALI	Model Name	2021WP00007ZA
<b>Connector (3.5mm to two 3.5 mm)</b>	Brand Name	DALI	Model Name	2031JP00033ZC

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

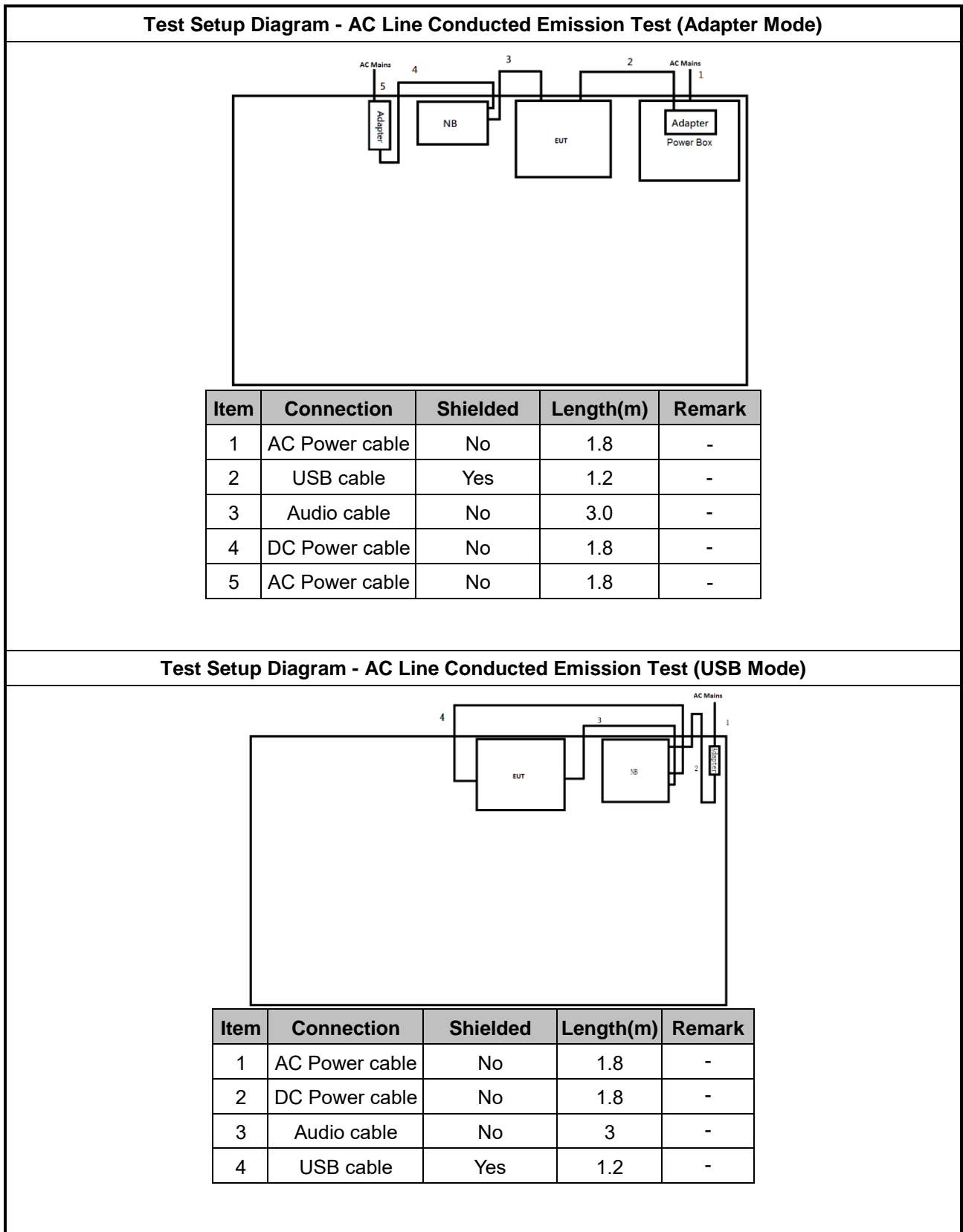
## 2.4 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC Power Cable	Power sync	AC Power Cable	-	-
2	Adapter (For NB)	HP	PPP012L-E	-	-
3	Notebook	HP	5220M	-	-
4	USB Cable	DALI	4021XW01951ZAU	-	Provided by Customer
5	Adapter	VogDUO	PS0521	-	-

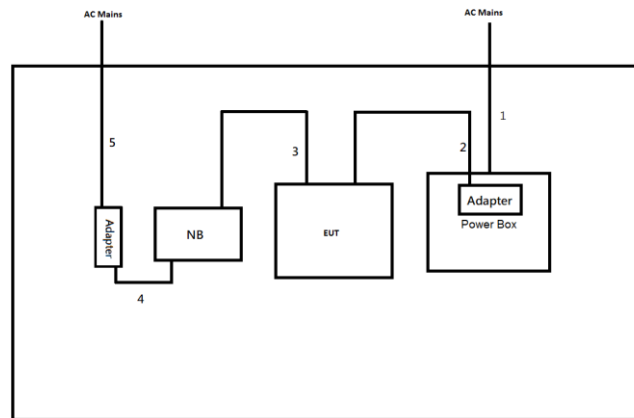
Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC Power Cable	Power sync	AC Power Cable	-	-
2	Adapter (For NB)	HP	PPP012L-E	-	-
3	Notebook	HP	5220M	-	-
4	Adapter	VogDUO	PS0521	-	-

## 2.5 Test Setup Diagram

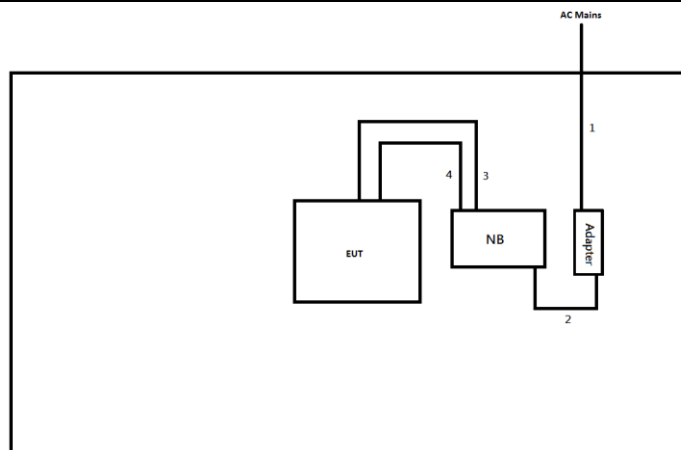


**Test Setup Diagram - Radiated Test (Adapter Mode)**



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	USB cable	Yes	1.2	-
3	Audio cable	No	3.0	-
4	DC Power cable	No	1.8	-
5	AC Power cable	No	1.8	-

**Test Setup Diagram - Radiated Test (USB Mode)**



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	1.8	-
3	USB cable	Yes	1.2	-
4	Audio cable	No	3.0	-



### 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

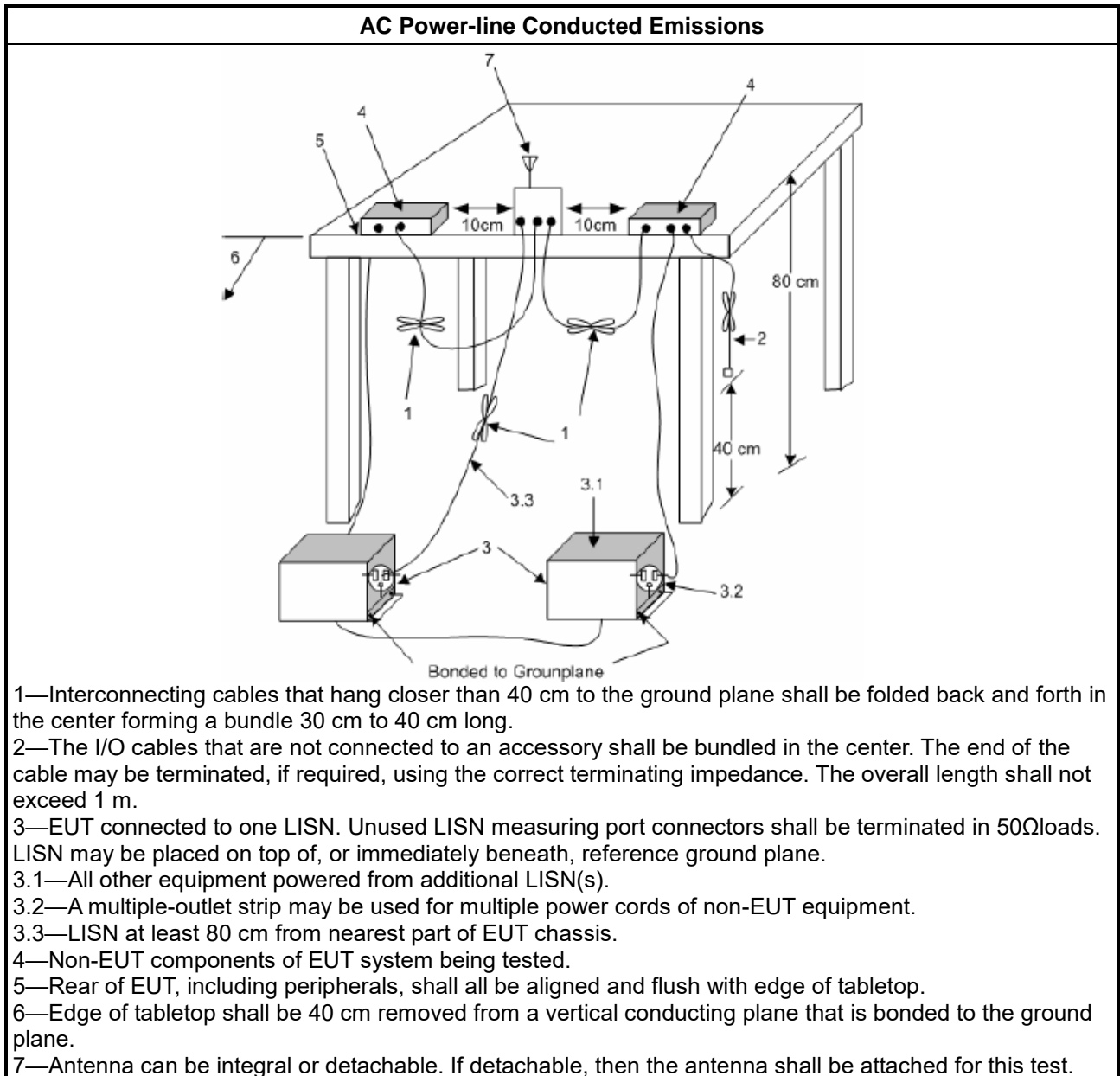
Test Method
<ul style="list-style-type: none"> <li>Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions.</li> </ul>

##### 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



### 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 $\geq$ 500 kHz.

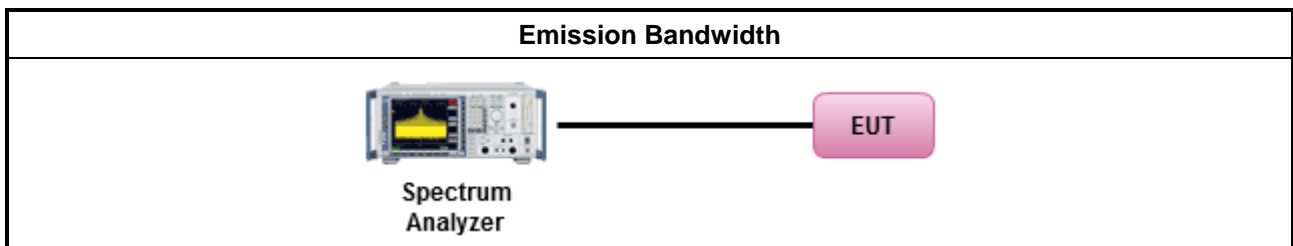
#### 3.2.2 Measuring Instruments

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:
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
<input type="checkbox"/>	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

#### 3.2.4 Test Setup



#### 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	
	<ul style="list-style-type: none"> <li>▪ If <math>G_{TX} \leq 6</math> dBi, then <math>P_{Out} \leq 30</math> dBm (1 W)</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-multipoint systems (P2M): If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-point systems (P2P): If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Smart antenna system (SAS):</li> </ul>
	<ul style="list-style-type: none"> <li>- Single beam: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>- Overlap beam: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>- Aggregate power on all beams: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3 + 8</math> dB dBm</li> </ul>
e.i.r.p. Power Limit:	
	<ul style="list-style-type: none"> <li>▪ 2400-2483.5 MHz Band</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-multipoint systems (P2M): <math>P_{eirp} \leq 36</math> dBm (4 W)</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-point systems (P2P): <math>P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Smart antenna system (SAS)</li> </ul>
	<ul style="list-style-type: none"> <li>- Single beam: <math>P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>- Overlap beam: <math>P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>- Aggregate power on all beams: <math>P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])</math> dBm</li> </ul>
<p><math>P_{Out}</math> = maximum peak conducted output power or maximum conducted output power in dBm,  <math>G_{TX}</math> = the maximum transmitting antenna directional gain in dBi.</p>	

#### 3.3.2 Measuring Instruments

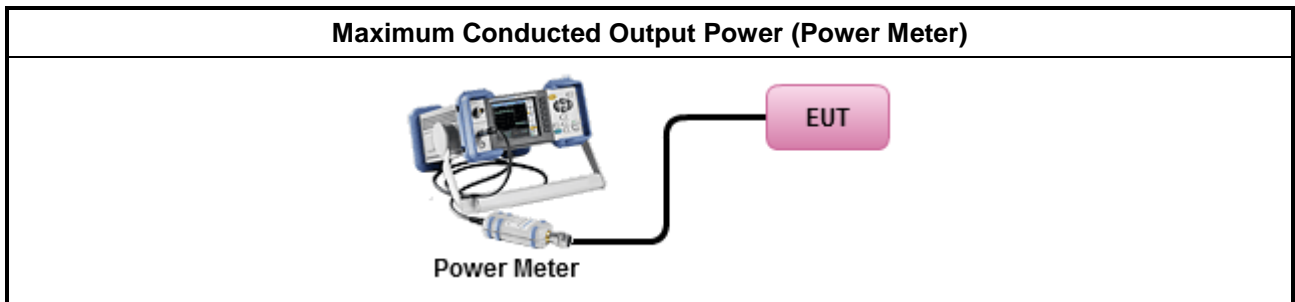
Refer a test equipment and calibration data table in this test report.



### 3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> <li>▪ Maximum Peak Conducted Output Power</li> </ul>	
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
<ul style="list-style-type: none"> <li>▪ Maximum Average Conducted Output Power</li> </ul>	
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
<ul style="list-style-type: none"> <li>▪ For conducted measurement.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ 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.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ If multiple transmit chains, EIRP calculation could be following as methods:  <math>P_{total} = P_1 + P_2 + \dots + P_n</math>                      (calculated in linear unit [mW] and transfer to log unit [dBm])  <math>EIRP_{total} = P_{total} + DG</math> </li> </ul>	

### 3.3.4 Test Setup



### 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
<ul style="list-style-type: none"> <li>Power Spectral Density (PSD) ≤ 8 dBm/3kHz</li> </ul>

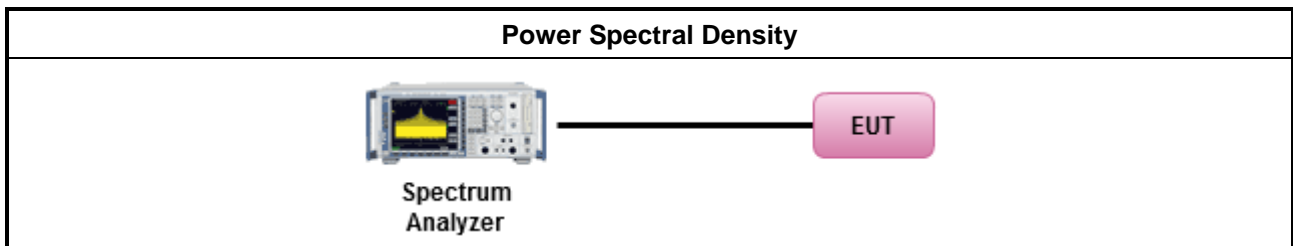
#### 3.4.2 Measuring Instruments

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

#### 3.4.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> <li>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).</li> </ul>	
<input checked="" type="checkbox"/> Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.	
<ul style="list-style-type: none"> <li>For conducted measurement.             <ul style="list-style-type: none"> <li>If The EUT supports multiple transmit chains using options given below:                 <ul style="list-style-type: none"> <li>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.</li> </ul> </li> </ul> </li> </ul>	

#### 3.4.4 Test Setup



#### 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.

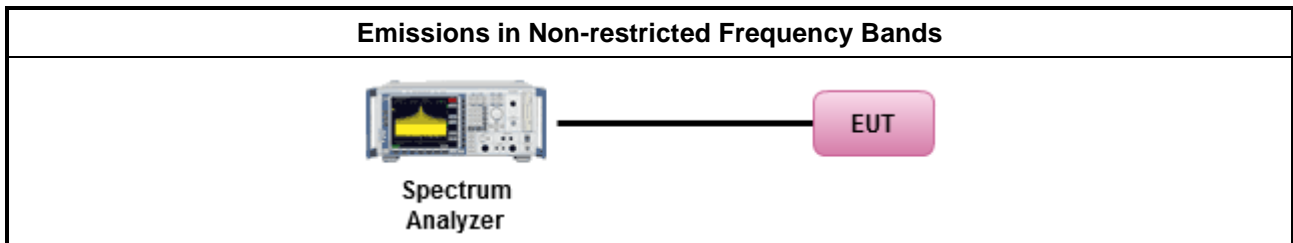
#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> <li>Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.</li> </ul>

#### 3.5.4 Test Setup



#### 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 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.

#### 3.6.2 Measuring Instruments

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

### 3.6.3 Test Procedures

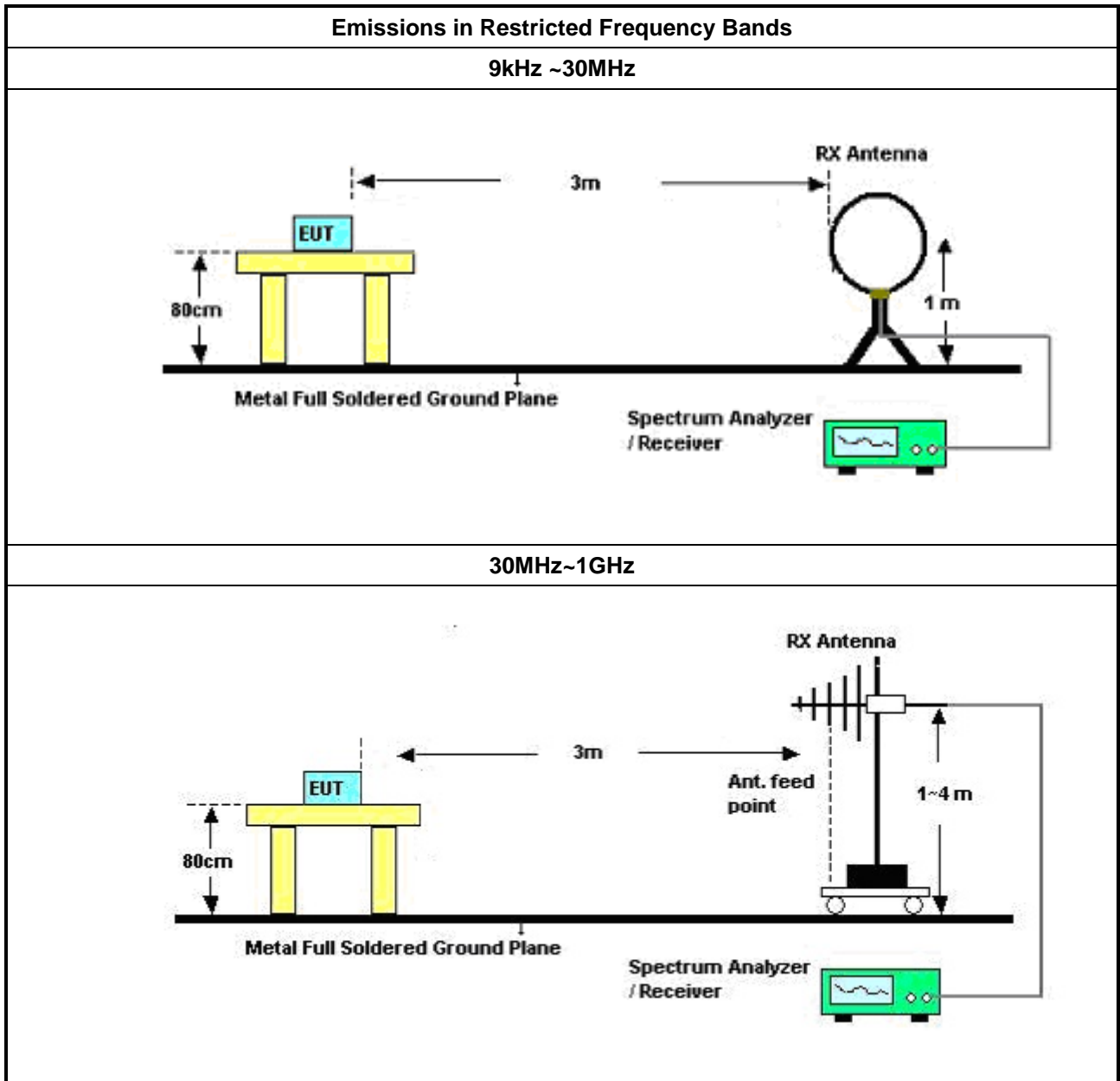
<b>Test Method</b>	
	<ul style="list-style-type: none"> <li>▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ For the transmitter band-edge emissions shall be measured using following options below:</li> </ul>
	<ul style="list-style-type: none"> <li>▪ 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.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Use the following spectrum analyzer settings:</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Set RBW=100 kHz for f &lt; 1 GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement. For average measurement, refer as 1.1.4.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ 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.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.</li> </ul>

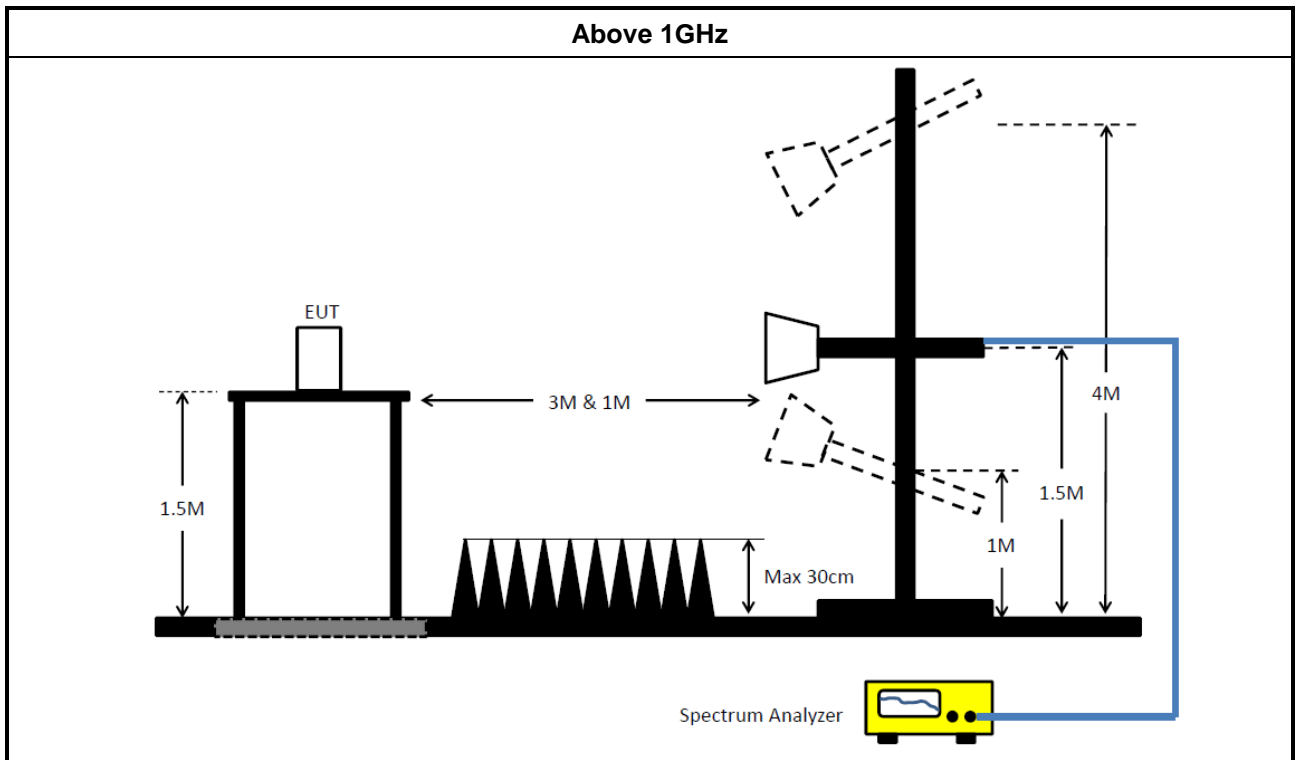
### 3.6.4 Measurement Results Calculation

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





### 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

### 3.7 Test Equipment and Calibration Data

#### Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR	102051	9kHz ~ 3.6GHz	16/May/2023	15/May/2024
Two-Line V-Network	R&S	ENV 216	100003	9kHz ~ 30MHz	16/Feb/2023	15/Feb/2024
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	28/Feb/2023	27/Feb/2024
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	25/Oct/2022	24/Oct/2023
Software	Sporton	SENSE-EMI	V5.10.8.7	-	NCR	NCR

NCR: No Calibration Required

#### Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101515	10Hz~40GHz	14/Feb/2023	13/Feb/2024
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2022	20/Oct/2023
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	14/Dec/2022	13/Dec/2023
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	14/Dec/2022	13/Dec/2023
SENSE-15247_FS	Sporton	V5.11.2	N/A	N/A	N/A	N/A

#### Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	31/Jul/2022	30/Jul/2023
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	30/Jul/2022	29/Jul/2023
Pre-amplifier	Agilent	8447D	2944A10825	100kHz~1.3GHz	07/Mar/2023	06/Mar/2024
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	02/Nov/2022	01/Nov/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz ~18GHz	27/Sep/2022	26/Sep/2023
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	28/Aug/2022	27/Aug/2023
RF Cable	MVE	400LL+SN 200207	03CH02-cable-02	9kHz~30MHz	20/Dec/2022	19/Dec/2023
RF Cable	MVE	400LL+SN 200207	03CH02-cable-02	30MHz~1GHz	20/Dec/2022	19/Dec/2023
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	03CH02-cable-01	1GHz~40GHz	10/Feb/2023	09/Feb/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	25/Mar/2023	24/Mar/2024
Microwave Prempplier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	16/Mar/2023	15/Mar/2024
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	23/Mar/2023	22/Mar/2024
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	23/Mar/2023	22/Mar/2024
Signal Analyzer	R&S	FSP 40	100305	9kHz~40GHz	25/Mar/2023	24/Mar/2024
SENSE_15247_FS	Sporton	Sporton	V5.11.2	NA	NA	NA





**Summary**

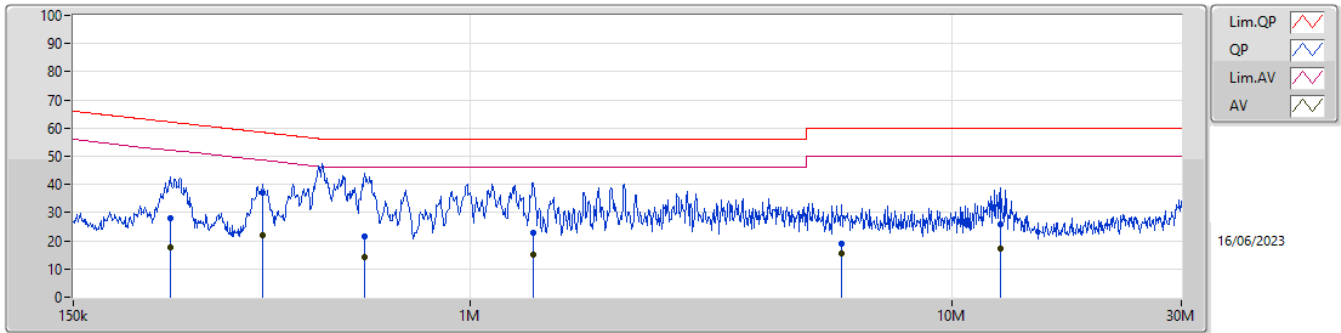
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	12.655M	46.95	50.00	-3.05	Neutral
Mode 2	Pass	QP	183.137k	50.81	64.34	-13.53	Neutral



Result

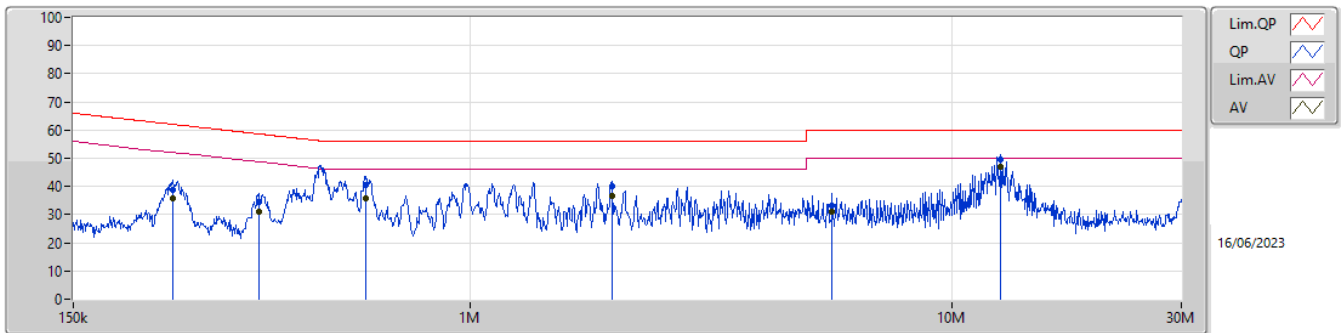
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	239.296k	28.15	62.12	-33.97	Line	-
Mode 1	Pass	AV	239.296k	17.50	52.12	-34.62	Line	-
Mode 1	Pass	QP	371.231k	37.28	58.47	-21.19	Line	-
Mode 1	Pass	AV	371.231k	21.95	48.47	-26.52	Line	-
Mode 1	Pass	QP	604.167k	21.45	56.00	-34.55	Line	-
Mode 1	Pass	AV	604.167k	14.37	46.00	-31.63	Line	-
Mode 1	Pass	QP	1.353M	22.82	56.00	-33.18	Line	-
Mode 1	Pass	AV	1.353M	14.93	46.00	-31.07	Line	-
Mode 1	Pass	QP	5.903M	18.78	60.00	-41.22	Line	-
Mode 1	Pass	AV	5.903M	15.71	50.00	-34.29	Line	-
Mode 1	Pass	QP	12.655M	26.02	60.00	-33.98	Line	-
Mode 1	Pass	AV	12.655M	17.07	50.00	-32.93	Line	-
Mode 1	Pass	QP	241.214k	38.96	62.06	-23.10	Neutral	-
Mode 1	Pass	AV	241.214k	35.61	52.06	-16.45	Neutral	-
Mode 1	Pass	QP	365.35k	34.48	58.60	-24.12	Neutral	-
Mode 1	Pass	AV	365.35k	31.01	48.60	-17.59	Neutral	-
Mode 1	Pass	QP	609.01k	40.45	56.00	-15.55	Neutral	-
Mode 1	Pass	AV	609.01k	35.76	46.00	-10.24	Neutral	-
Mode 1	Pass	QP	1.969M	39.90	56.00	-16.10	Neutral	-
Mode 1	Pass	AV	1.969M	36.49	46.00	-9.51	Neutral	-
Mode 1	Pass	QP	5.65M	33.36	60.00	-26.64	Neutral	-
Mode 1	Pass	AV	5.65M	30.82	50.00	-19.18	Neutral	-
Mode 1	Pass	QP	12.655M	49.67	60.00	-10.33	Neutral	-
Mode 1	Pass	AV	12.655M	46.95	50.00	-3.05	Neutral	-
Mode 2	Pass	QP	158.622k	38.76	65.54	-26.78	Line	-
Mode 2	Pass	AV	158.622k	20.31	55.54	-35.23	Line	-
Mode 2	Pass	QP	432.041k	25.53	57.20	-31.67	Line	-
Mode 2	Pass	AV	432.041k	16.67	47.20	-30.53	Line	-
Mode 2	Pass	QP	553.37k	22.31	56.00	-33.69	Line	-
Mode 2	Pass	AV	553.37k	14.59	46.00	-31.41	Line	-
Mode 2	Pass	QP	609.01k	26.25	56.00	-29.75	Line	-
Mode 2	Pass	AV	609.01k	16.02	46.00	-29.98	Line	-
Mode 2	Pass	QP	6.394M	18.56	60.00	-41.44	Line	-
Mode 2	Pass	AV	6.394M	15.96	50.00	-34.04	Line	-
Mode 2	Pass	QP	18.491M	18.07	60.00	-41.93	Line	-
Mode 2	Pass	AV	18.491M	15.56	50.00	-34.44	Line	-
Mode 2	Pass	QP	183.137k	50.81	64.34	-13.53	Neutral	-
Mode 2	Pass	AV	183.137k	37.60	54.34	-16.74	Neutral	-
Mode 2	Pass	QP	243.148k	40.87	61.98	-21.11	Neutral	-
Mode 2	Pass	AV	243.148k	27.44	51.98	-24.54	Neutral	-
Mode 2	Pass	QP	521.206k	28.21	56.00	-27.79	Neutral	-
Mode 2	Pass	AV	521.206k	17.84	46.00	-28.16	Neutral	-
Mode 2	Pass	QP	933.537k	28.59	56.00	-27.41	Neutral	-
Mode 2	Pass	AV	933.537k	19.00	46.00	-27.00	Neutral	-
Mode 2	Pass	QP	7.807M	20.78	60.00	-39.22	Neutral	-
Mode 2	Pass	AV	7.807M	17.25	50.00	-32.75	Neutral	-
Mode 2	Pass	QP	17.416M	18.42	60.00	-41.58	Neutral	-
Mode 2	Pass	AV	17.416M	15.72	50.00	-34.28	Neutral	-

Conducted Emissions at Powerline\_Mode 1



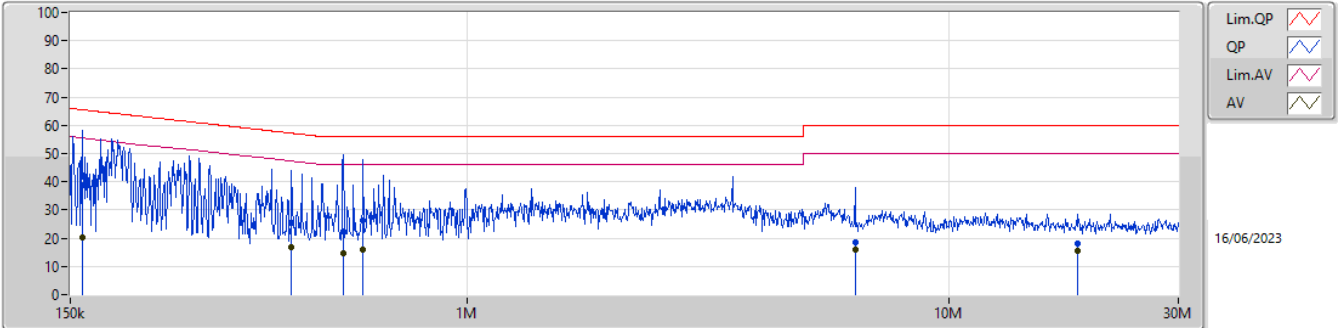
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	239.296k	28.15	62.12	-33.97	19.62	Line	-	8.53	9.65	0.03	9.94
AV	239.296k	17.50	52.12	-34.62	19.62	Line	-	-2.12	9.65	0.03	9.94
QP	371.231k	37.28	58.47	-21.19	19.64	Line	-	17.64	9.64	0.04	9.96
AV	371.231k	21.95	48.47	-26.52	19.64	Line	-	2.31	9.64	0.04	9.96
QP	604.167k	21.45	56.00	-34.55	19.63	Line	-	1.82	9.64	0.04	9.95
AV	604.167k	14.37	46.00	-31.63	19.63	Line	-	-5.26	9.64	0.04	9.95
QP	1.353M	22.82	56.00	-33.18	19.66	Line	-	3.16	9.66	0.06	9.94
AV	1.353M	14.93	46.00	-31.07	19.66	Line	-	-4.73	9.66	0.06	9.94
QP	5.903M	18.78	60.00	-41.22	19.83	Line	-	-1.05	9.74	0.15	9.94
AV	5.903M	15.71	50.00	-34.29	19.83	Line	-	-4.12	9.74	0.15	9.94
QP	12.655M	26.02	60.00	-33.98	19.98	Line	-	6.04	9.80	0.21	9.97
AV	12.655M	17.07	50.00	-32.93	19.98	Line	-	-2.91	9.80	0.21	9.97

Conducted Emissions at Powerline\_Mode 1



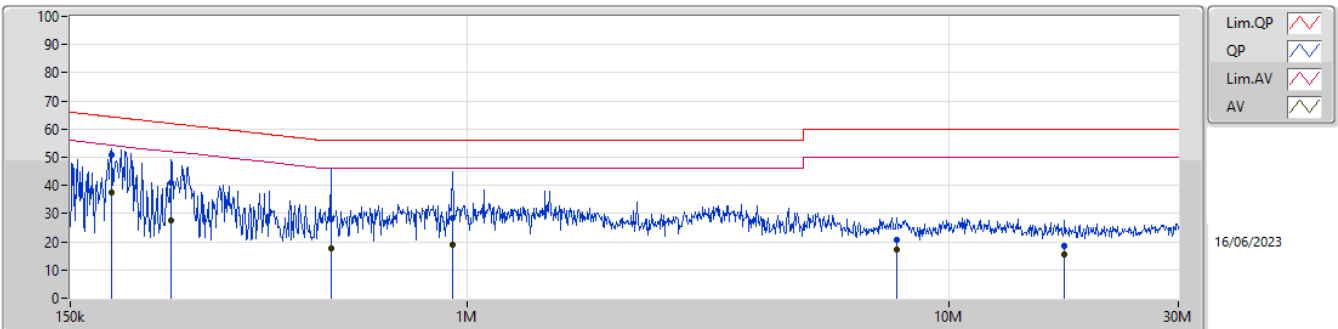
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	241.214k	38.96	62.06	-23.10	19.59	Neutral	-	19.37	9.62	0.03	9.94
AV	241.214k	35.61	52.06	-16.45	19.59	Neutral	-	16.02	9.62	0.03	9.94
QP	365.35k	34.48	58.60	-24.12	19.63	Neutral	-	14.85	9.63	0.04	9.96
AV	365.35k	31.01	48.60	-17.59	19.63	Neutral	-	11.38	9.63	0.04	9.96
QP	609.01k	40.45	56.00	-15.55	19.63	Neutral	-	20.82	9.64	0.04	9.95
AV	609.01k	35.76	46.00	-10.24	19.63	Neutral	-	16.13	9.64	0.04	9.95
QP	1.969M	39.90	56.00	-16.10	19.68	Neutral	-	20.22	9.66	0.08	9.94
AV	1.969M	36.49	46.00	-9.51	19.68	Neutral	-	16.81	9.66	0.08	9.94
QP	5.65M	33.36	60.00	-26.64	19.82	Neutral	-	13.54	9.73	0.15	9.94
AV	5.65M	30.82	50.00	-19.18	19.82	Neutral	-	11.00	9.73	0.15	9.94
QP	12.655M	49.67	60.00	-10.33	20.04	Neutral	-	29.63	9.86	0.21	9.97
AV	12.655M	46.95	50.00	-3.05	20.04	Neutral	-	26.91	9.86	0.21	9.97

Conducted Emissions at Powerline\_Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	158.622k	38.76	65.54	-26.78	19.61	Line	-	19.15	9.65	0.03	9.93
AV	158.622k	20.31	55.54	-35.23	19.61	Line	-	0.70	9.65	0.03	9.93
QP	432.041k	25.53	57.20	-31.67	19.64	Line	-	5.89	9.64	0.04	9.96
AV	432.041k	16.67	47.20	-30.53	19.64	Line	-	-2.97	9.64	0.04	9.96
QP	553.37k	22.31	56.00	-33.69	19.63	Line	-	2.68	9.64	0.04	9.95
AV	553.37k	14.59	46.00	-31.41	19.63	Line	-	-5.04	9.64	0.04	9.95
QP	609.01k	26.25	56.00	-29.75	19.63	Line	-	6.62	9.64	0.04	9.95
AV	609.01k	16.02	46.00	-29.98	19.63	Line	-	-3.61	9.64	0.04	9.95
QP	6.394M	18.56	60.00	-41.44	19.86	Line	-	-1.30	9.75	0.16	9.95
AV	6.394M	15.96	50.00	-34.04	19.86	Line	-	-3.90	9.75	0.16	9.95
QP	18.491M	18.07	60.00	-41.93	20.02	Line	-	-1.95	9.79	0.26	9.97
AV	18.491M	15.56	50.00	-34.44	20.02	Line	-	-4.46	9.79	0.26	9.97

Conducted Emissions at Powerline\_Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	183.137k	50.81	64.34	-13.53	19.58	Neutral	-	31.23	9.62	0.03	9.93
AV	183.137k	37.60	54.34	-16.74	19.58	Neutral	-	18.02	9.62	0.03	9.93
QP	243.148k	40.87	61.98	-21.11	19.59	Neutral	-	21.28	9.62	0.03	9.94
AV	243.148k	27.44	51.98	-24.54	19.59	Neutral	-	7.85	9.62	0.03	9.94
QP	521.206k	28.21	56.00	-27.79	19.63	Neutral	-	8.58	9.64	0.04	9.95
AV	521.206k	17.84	46.00	-28.16	19.63	Neutral	-	-1.79	9.64	0.04	9.95
QP	933.537k	28.59	56.00	-27.41	19.64	Neutral	-	8.95	9.65	0.05	9.94
AV	933.537k	19.00	46.00	-27.00	19.64	Neutral	-	-0.64	9.65	0.05	9.94
QP	7.807M	20.78	60.00	-39.22	19.89	Neutral	-	0.89	9.77	0.17	9.95
AV	7.807M	17.25	50.00	-32.75	19.89	Neutral	-	-2.64	9.77	0.17	9.95
QP	17.416M	18.42	60.00	-41.58	20.15	Neutral	-	-1.73	9.92	0.26	9.97
AV	17.416M	15.72	50.00	-34.28	20.15	Neutral	-	-4.43	9.92	0.26	9.97



**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)	716.25k	1.037M	1M04F1D	706.25k	1.034M
BT-LE(2Mbps)	1.258M	2.047M	2M05F1D	1.248M	2.043M

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	716.25k	1.036M
2440MHz	Pass	500k	712.5k	1.037M
2480MHz	Pass	500k	706.25k	1.034M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.248M	2.047M
2440MHz	Pass	500k	1.258M	2.046M
2480MHz	Pass	500k	1.253M	2.043M

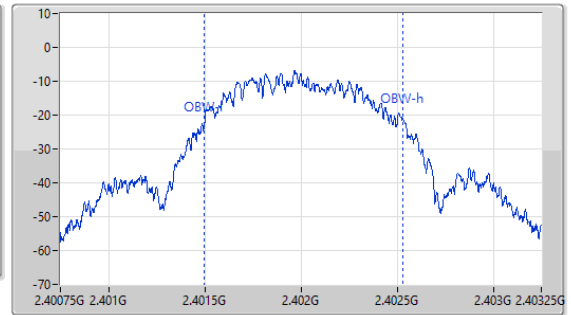
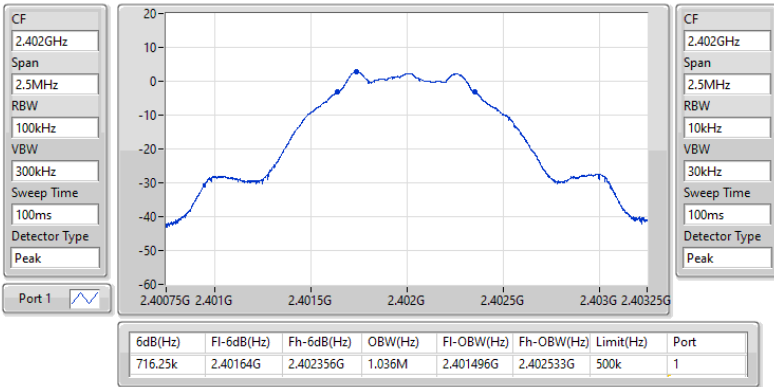
Port X-N dB = Port X 6dB down bandwidth;  
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz\_BT-LE(1Mbps)

EBW-DTS

2402MHz

28/06/2023

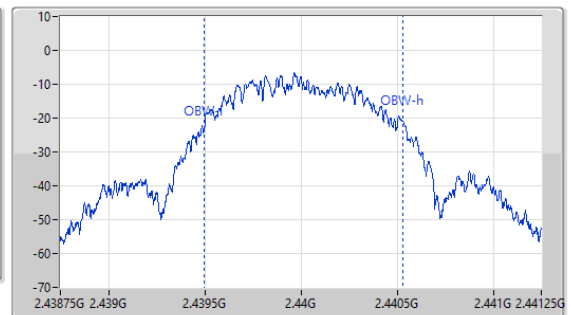
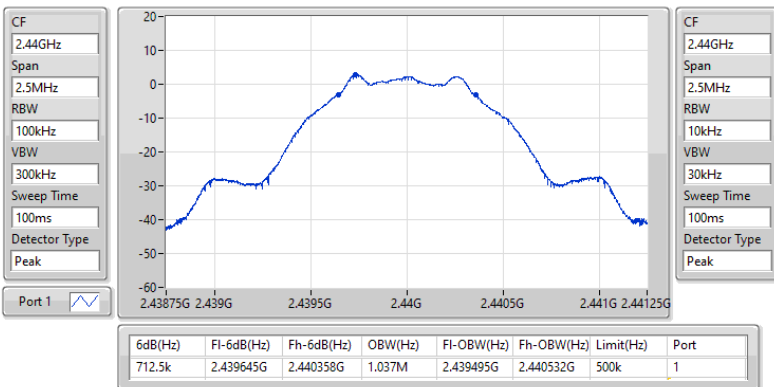


2.4-2.4835GHz\_BT-LE(1Mbps)

EBW-DTS

2440MHz

28/06/2023

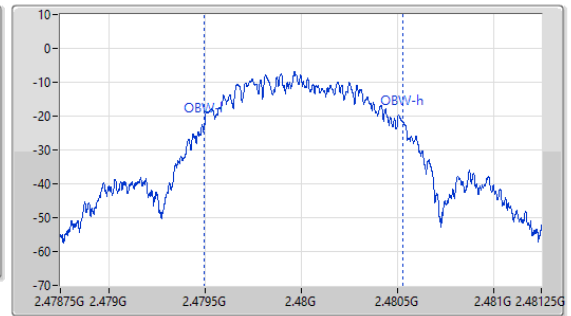
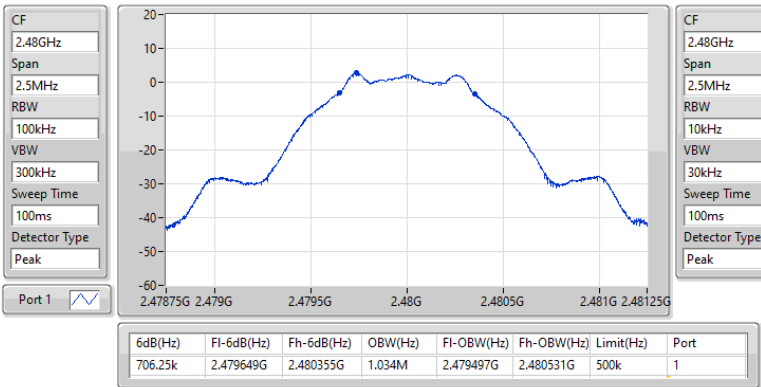


2.4-2.4835GHz\_BT-LE(1Mbps)

EBW-DTS

2480MHz

28/06/2023

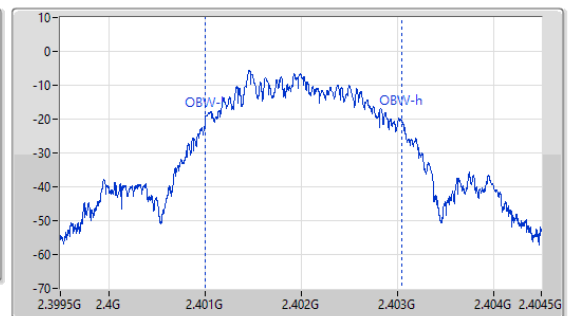
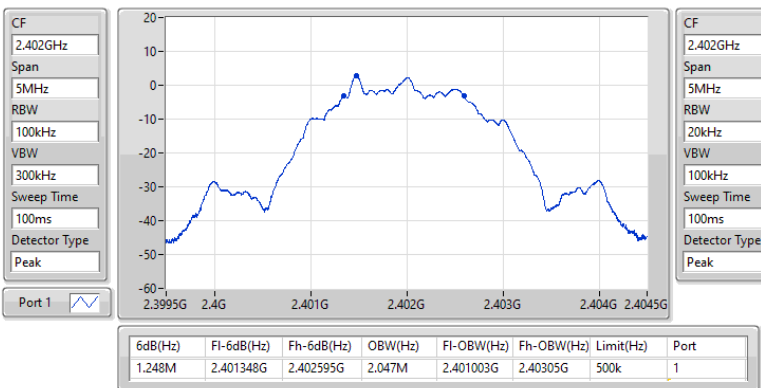


2.4-2.4835GHz\_BT-LE(2Mbps)

EBW-DTS

2402MHz

28/06/2023



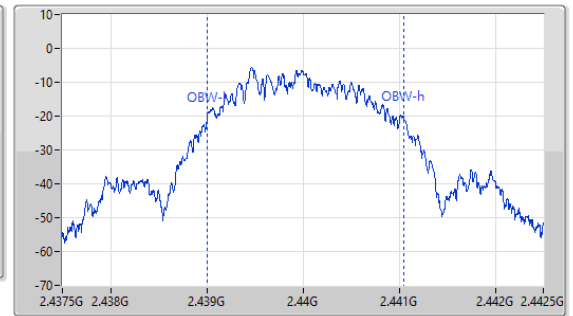
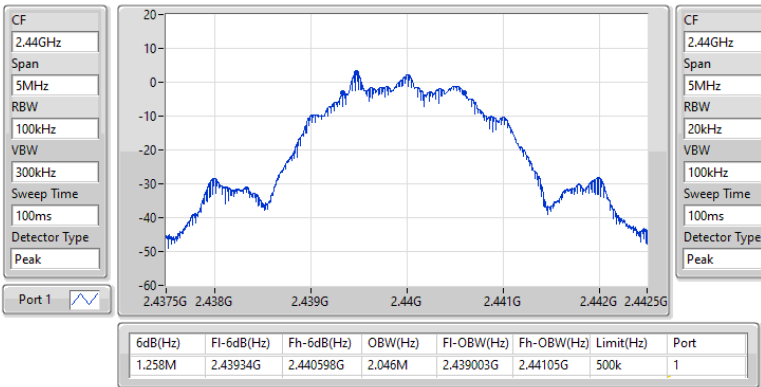


2.4-2.4835GHz\_BT-LE(2Mbps)

EBW-DTS

2440MHz

28/06/2023

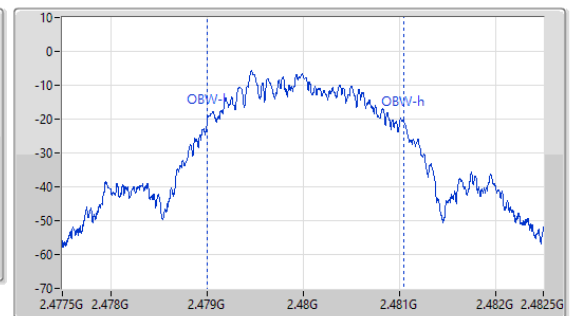
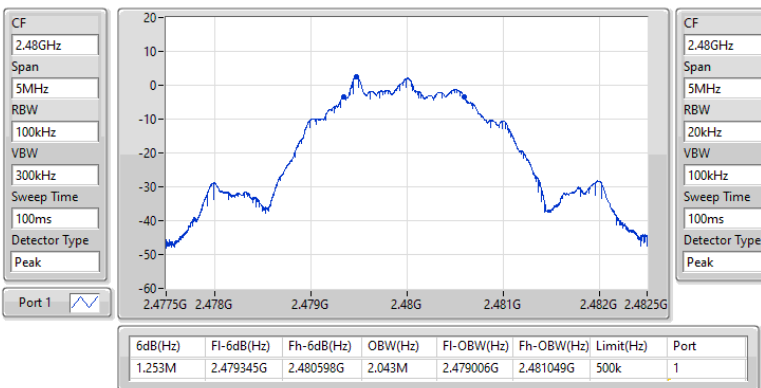


2.4-2.4835GHz\_BT-LE(2Mbps)

EBW-DTS

2480MHz

28/06/2023





**Summary**

Mode	Total Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	3.01	0.00200
BT-LE(2Mbps)	2.75	0.00188



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	0.50	3.01	30.00
2440MHz	Pass	0.50	2.98	30.00
2480MHz	Pass	0.50	2.74	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	0.50	2.75	30.00
2440MHz	Pass	0.50	2.72	30.00
2480MHz	Pass	0.50	2.52	30.00

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



**Summary**

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-12.81
BT-LE(2Mbps)	-16.27

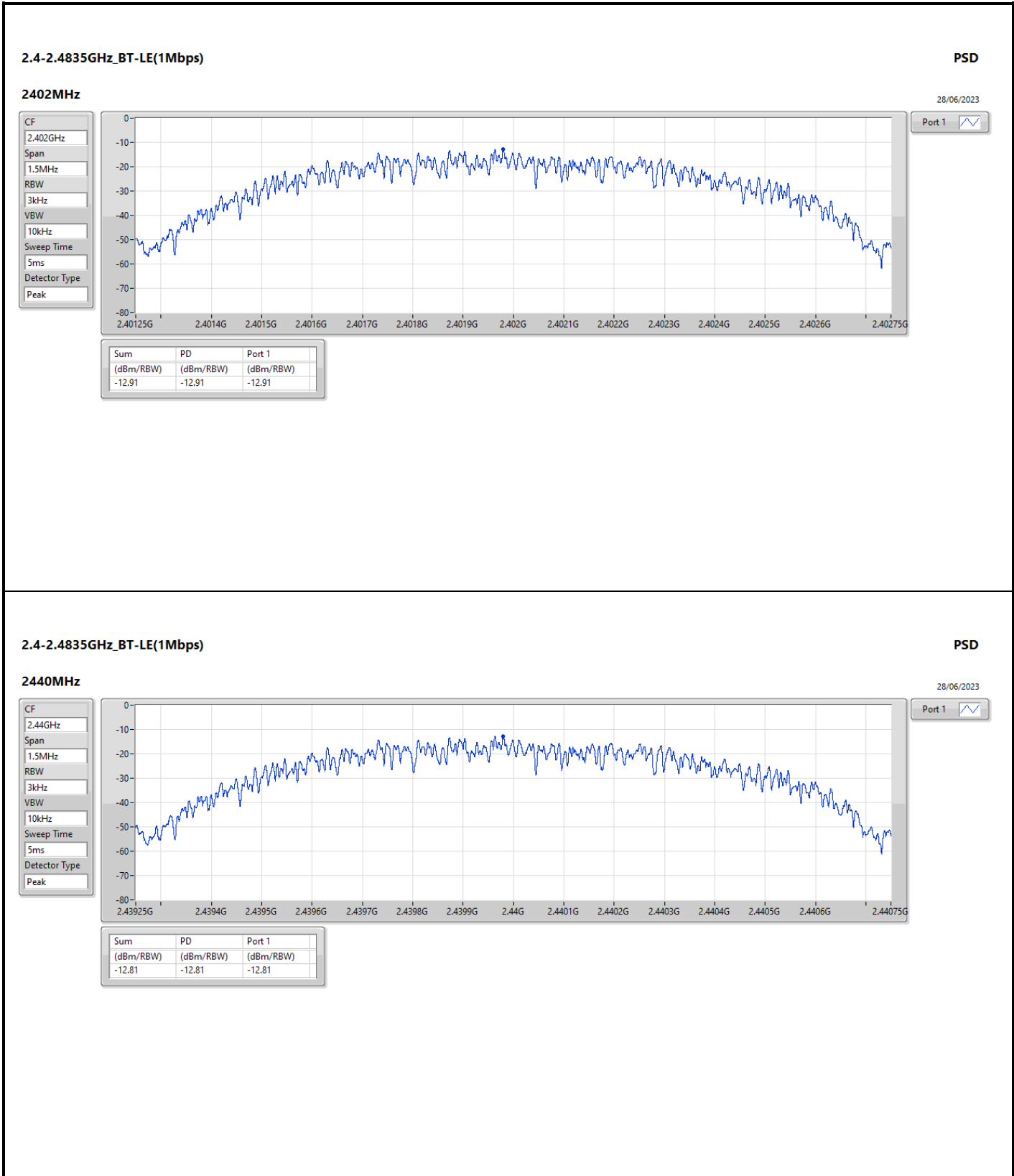
RBW = 3kHz;

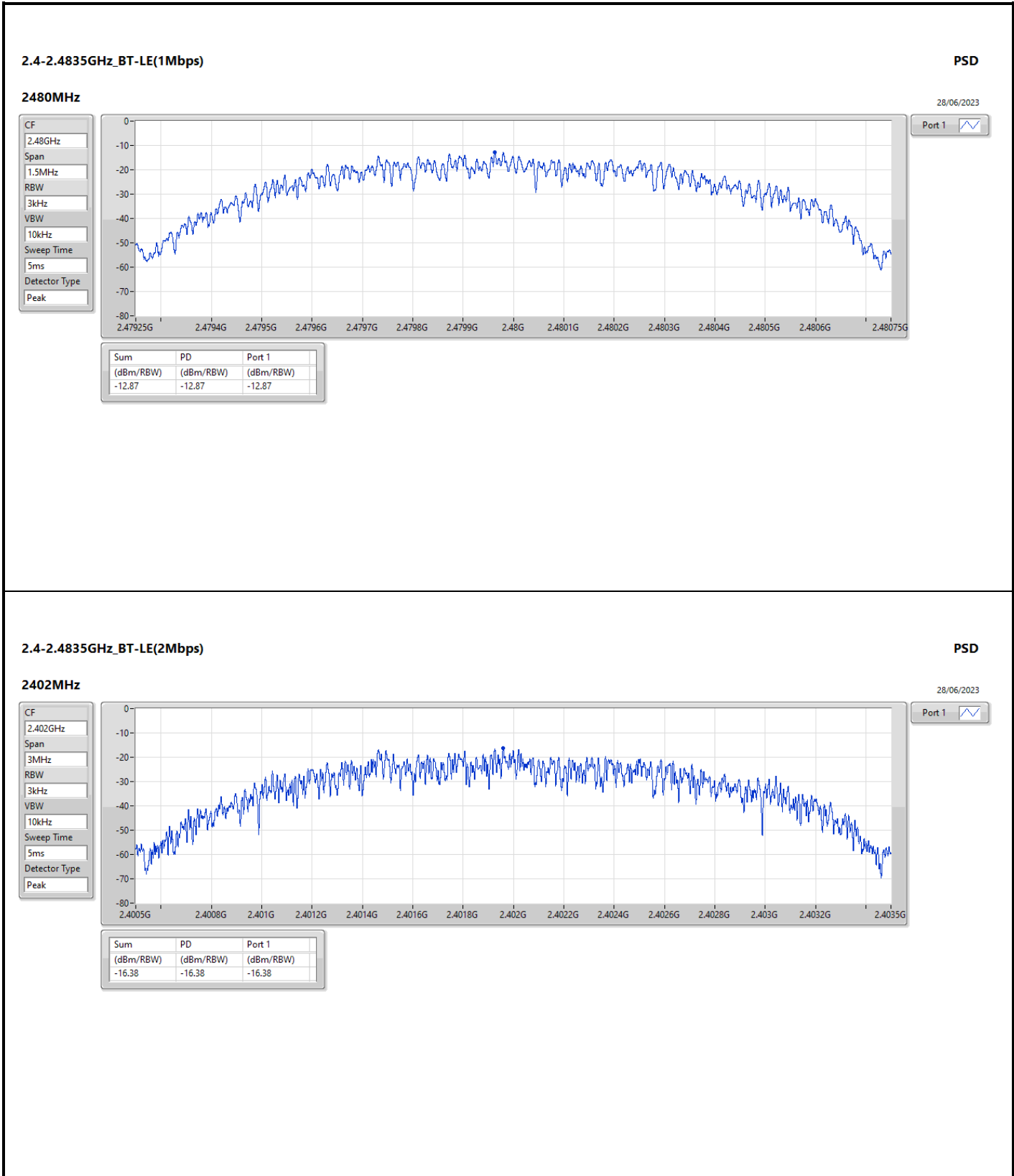


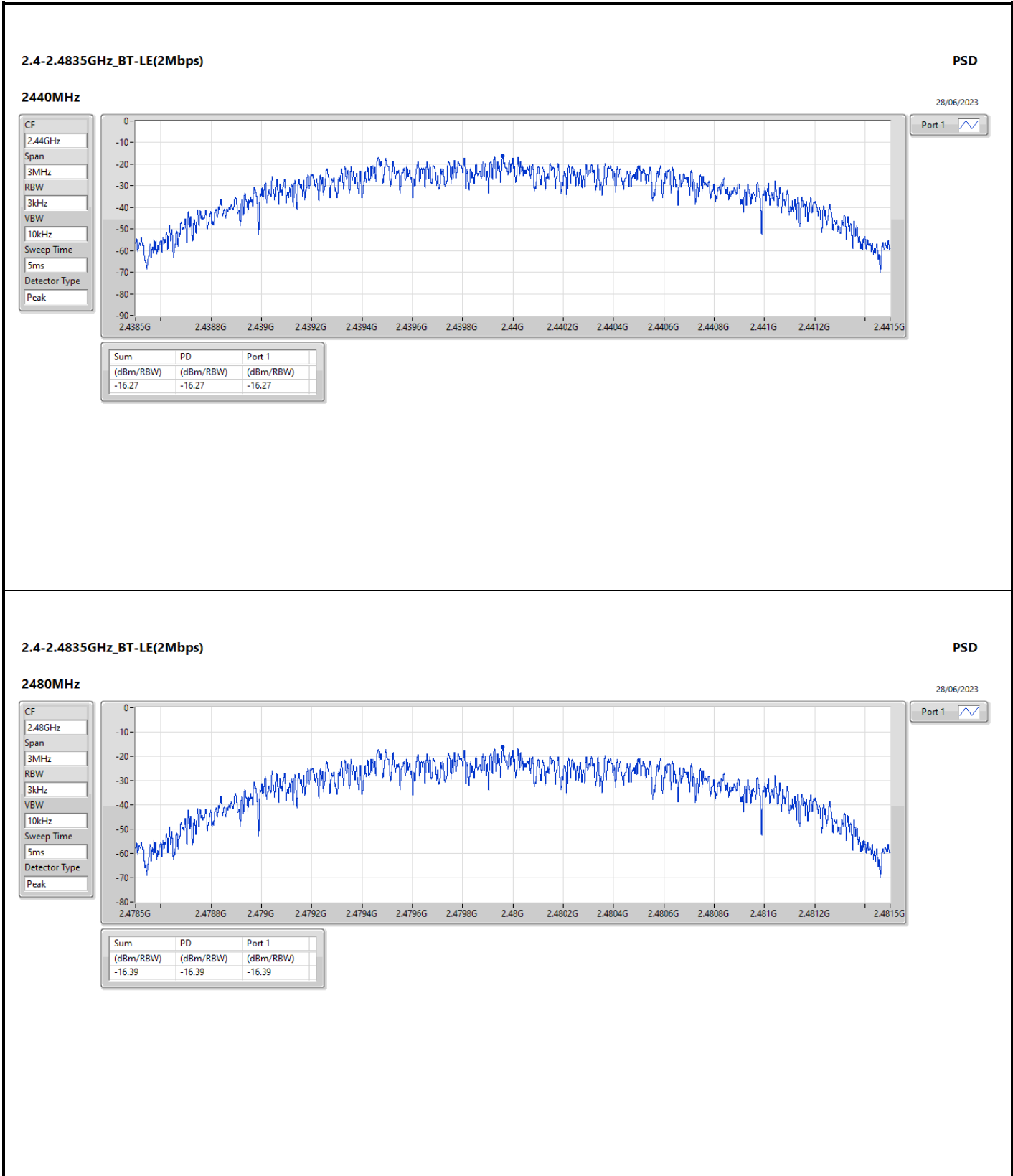
Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	0.50	-12.91	8.00
2440MHz	Pass	0.50	-12.81	8.00
2480MHz	Pass	0.50	-12.87	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	0.50	-16.38	8.00
2440MHz	Pass	0.50	-16.27	8.00
2480MHz	Pass	0.50	-16.39	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;











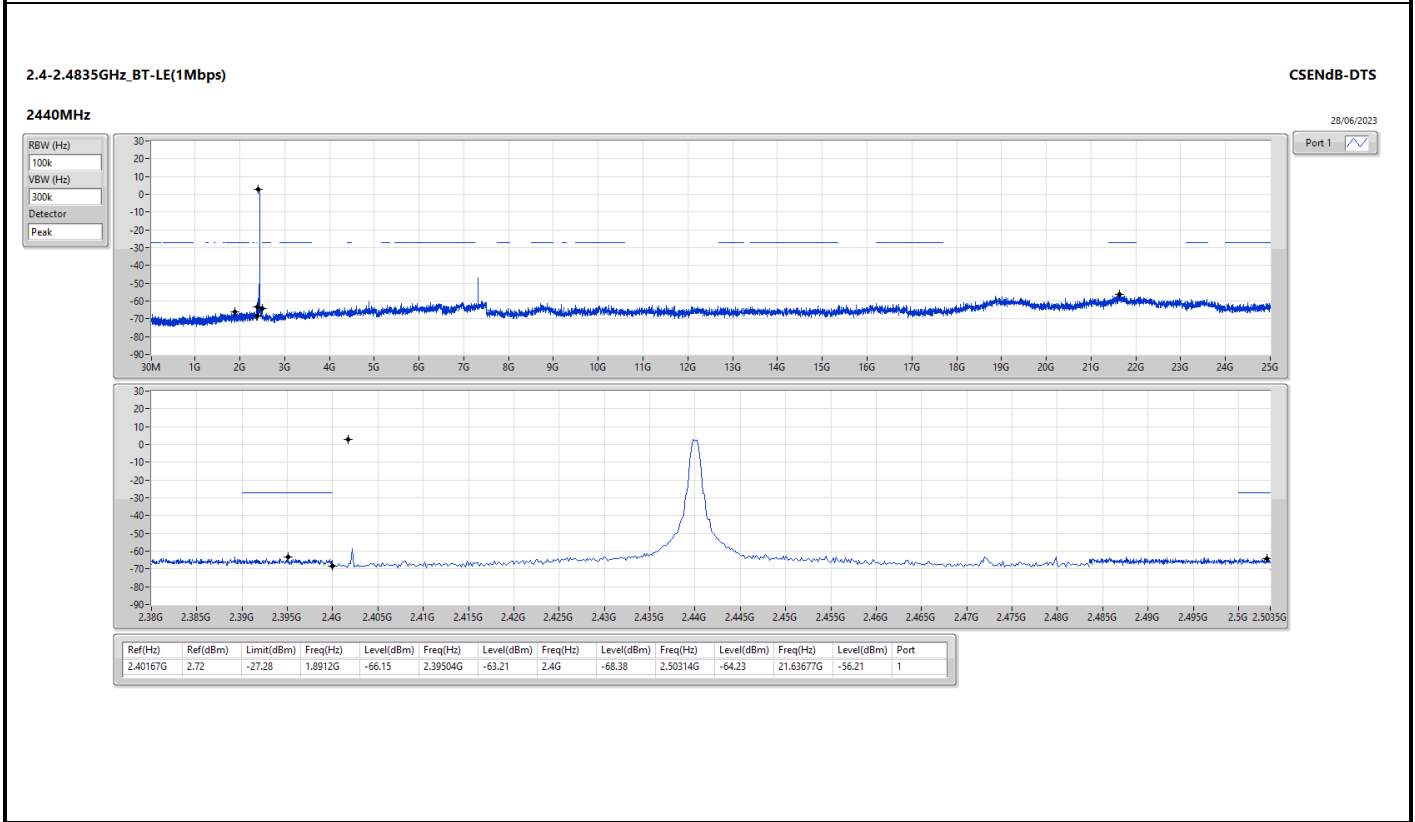
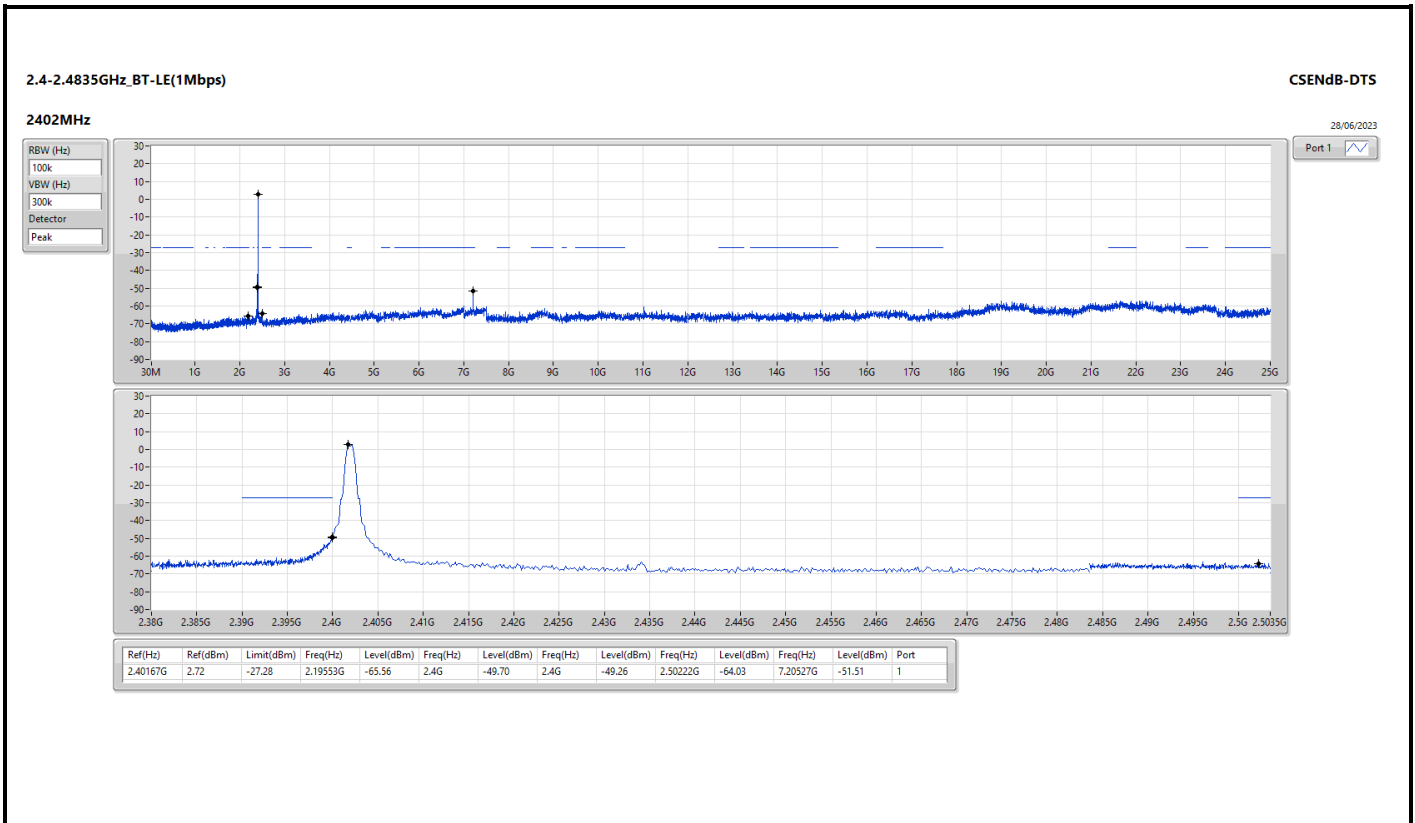
Summary

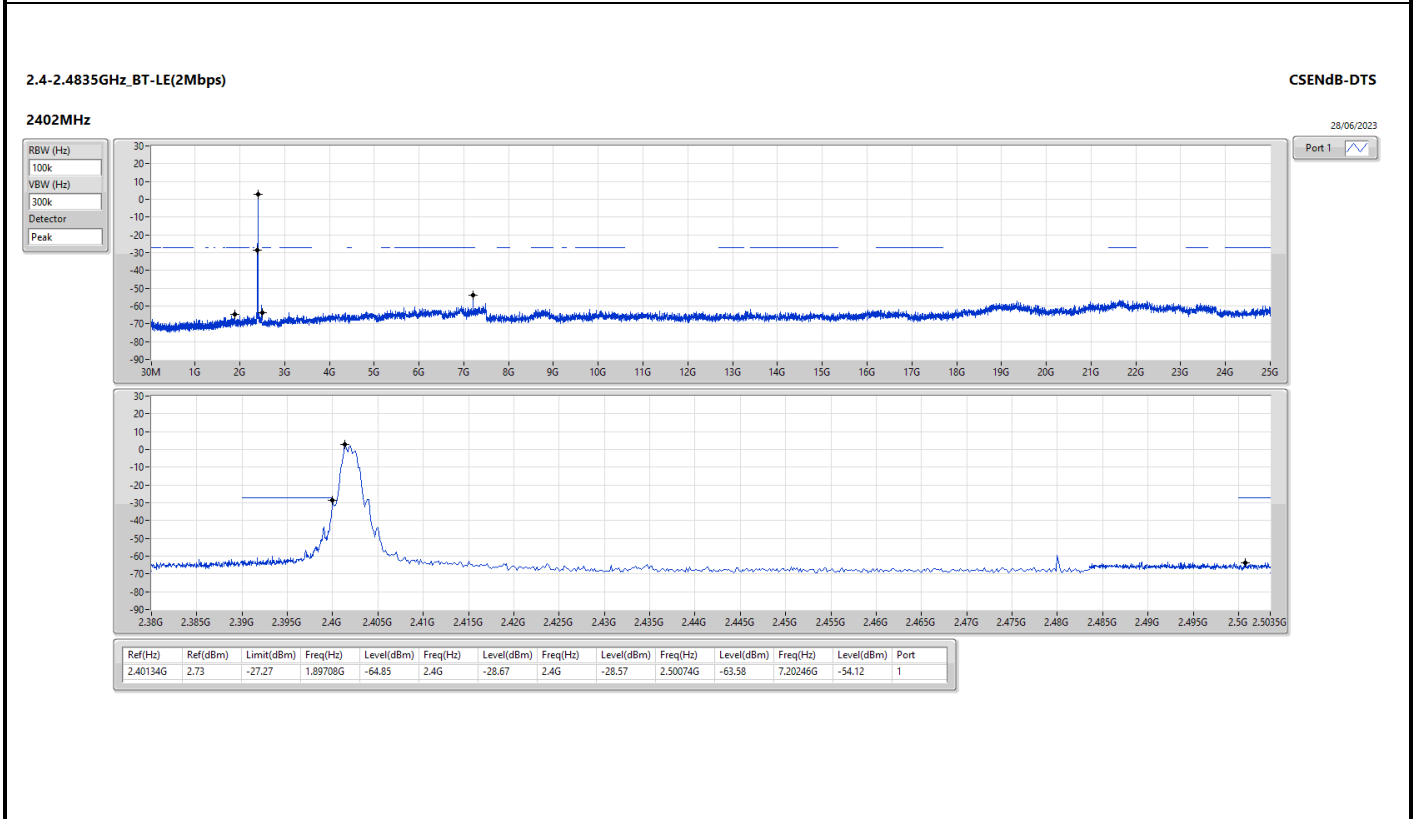
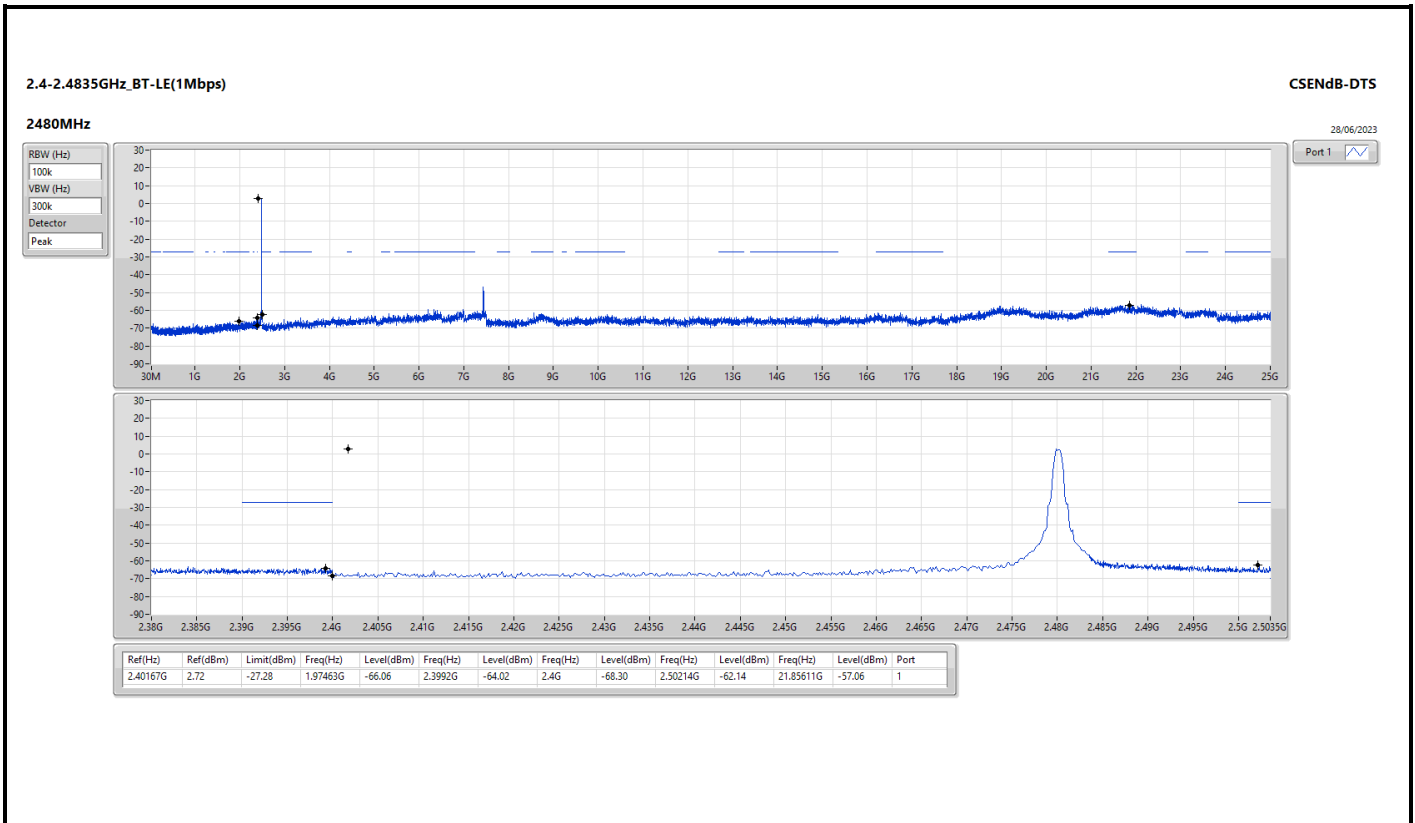
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.40167G	2.72	-27.28	2.19553G	-65.56	2.4G	-49.70	2.4G	-49.26	2.50222G	-64.03	7.20527G	-51.51	1
BT-LE(2Mbps)	Pass	2.40134G	2.73	-27.27	1.89708G	-64.85	2.4G	-28.67	2.4G	-28.57	2.50074G	-63.58	7.20246G	-54.12	1

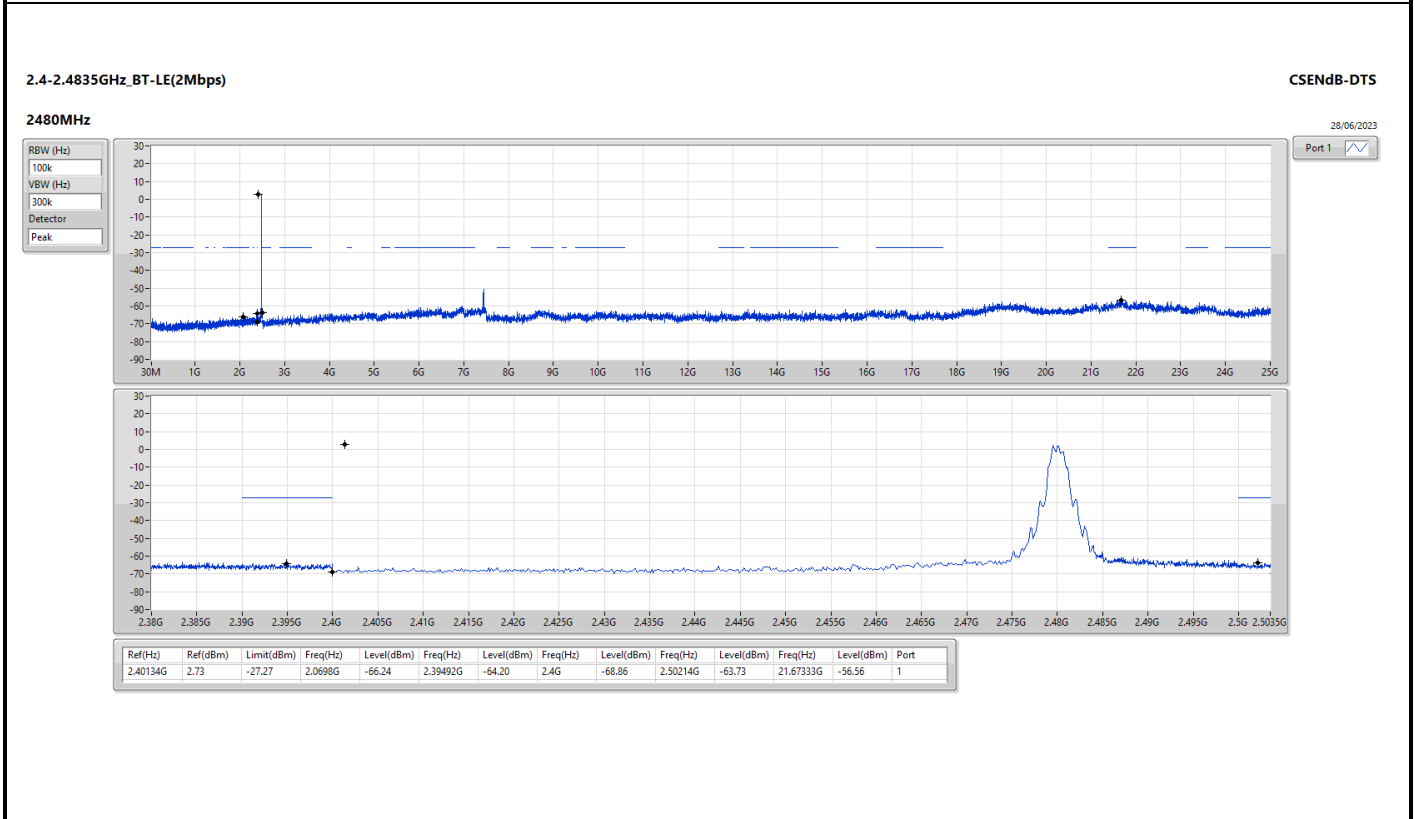
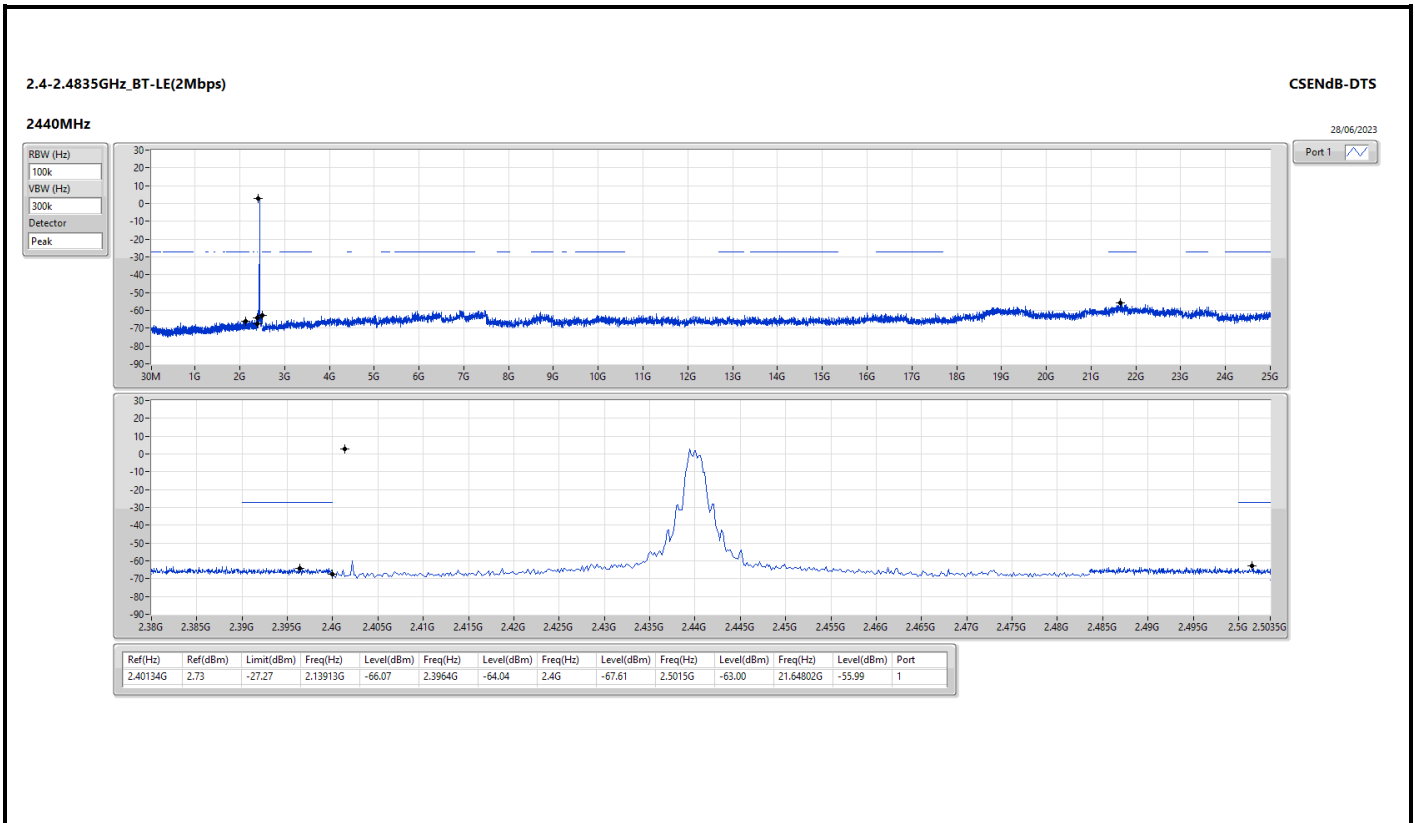


Result

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	2.40167G	2.72	-27.28	2.19553G	-65.56	2.4G	-49.70	2.4G	-49.26	2.50222G	-64.03	7.20527G	-51.51	1
2440MHz	Pass	2.40167G	2.72	-27.28	1.8912G	-66.15	2.39504G	-63.21	2.4G	-68.38	2.50314G	-64.23	21.63677G	-56.21	1
2480MHz	Pass	2.40167G	2.72	-27.28	1.97463G	-66.06	2.3992G	-64.02	2.4G	-68.30	2.50214G	-62.14	21.85611G	-57.06	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40134G	2.73	-27.27	1.89708G	-64.85	2.4G	-28.67	2.4G	-28.57	2.50074G	-63.58	7.20246G	-54.12	1
2440MHz	Pass	2.40134G	2.73	-27.27	2.13913G	-66.07	2.3964G	-64.04	2.4G	-67.61	2.5015G	-63.00	21.64802G	-55.99	1
2480MHz	Pass	2.40134G	2.73	-27.27	2.0698G	-66.24	2.39492G	-64.20	2.4G	-68.86	2.50214G	-63.73	21.67333G	-56.56	1









Summary

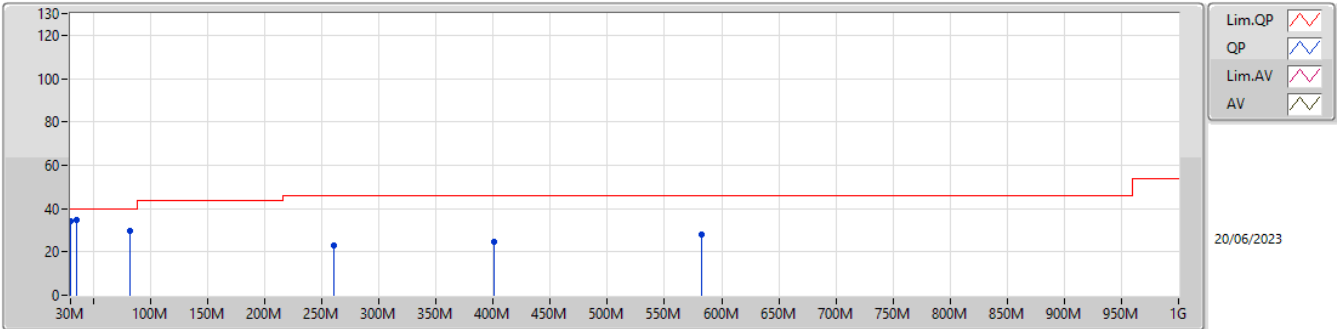
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	30M	35.51	40.00	-4.49	3	Vertical	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	30M	33.96	40.00	-6.04	3	Vertical	360	1.00
2440MHz	Pass	PK	35.82M	34.49	40.00	-5.51	3	Vertical	360	1.00
2440MHz	Pass	PK	82.38M	29.94	40.00	-10.06	3	Vertical	360	1.00
2440MHz	Pass	PK	260.86M	22.92	46.00	-23.08	3	Vertical	360	1.00
2440MHz	Pass	PK	400.54M	24.93	46.00	-21.07	3	Vertical	360	1.00
2440MHz	Pass	PK	582.9M	28.18	46.00	-17.82	3	Vertical	360	1.00
2440MHz	Pass	PK	39.7M	30.99	40.00	-9.01	3	Horizontal	0	1.00
2440MHz	Pass	PK	80.44M	34.16	40.00	-5.84	3	Horizontal	0	1.00
2440MHz	Pass	PK	163.86M	23.07	43.50	-20.43	3	Horizontal	0	1.00
2440MHz	Pass	PK	319.06M	29.86	46.00	-16.14	3	Horizontal	0	1.00
2440MHz	Pass	PK	416.06M	25.62	46.00	-20.38	3	Horizontal	0	1.00
2440MHz	Pass	PK	542.16M	29.26	46.00	-16.74	3	Horizontal	0	1.00
2440MHz	Pass	PK	30M	35.51	40.00	-4.49	3	Vertical	360	1.00
2440MHz	Pass	PK	55.22M	34.02	40.00	-5.98	3	Vertical	360	1.00
2440MHz	Pass	PK	187.14M	29.14	43.50	-14.36	3	Vertical	360	1.00
2440MHz	Pass	PK	367.56M	23.82	46.00	-22.18	3	Vertical	360	1.00
2440MHz	Pass	PK	526.64M	26.30	46.00	-19.70	3	Vertical	360	1.00
2440MHz	Pass	PK	559.62M	28.29	46.00	-17.71	3	Vertical	360	1.00
2440MHz	Pass	PK	30M	26.74	40.00	-13.26	3	Horizontal	0	1.00
2440MHz	Pass	PK	39.7M	27.65	40.00	-12.35	3	Horizontal	0	1.00
2440MHz	Pass	PK	175.5M	27.23	43.50	-16.27	3	Horizontal	0	1.00
2440MHz	Pass	PK	398.6M	25.32	46.00	-20.68	3	Horizontal	0	1.00
2440MHz	Pass	PK	466.5M	27.79	46.00	-18.21	3	Horizontal	0	1.00
2440MHz	Pass	PK	520.82M	27.20	46.00	-18.80	3	Horizontal	0	1.00

2.4-2.4835GHz\_BT-LE(2Mbps)

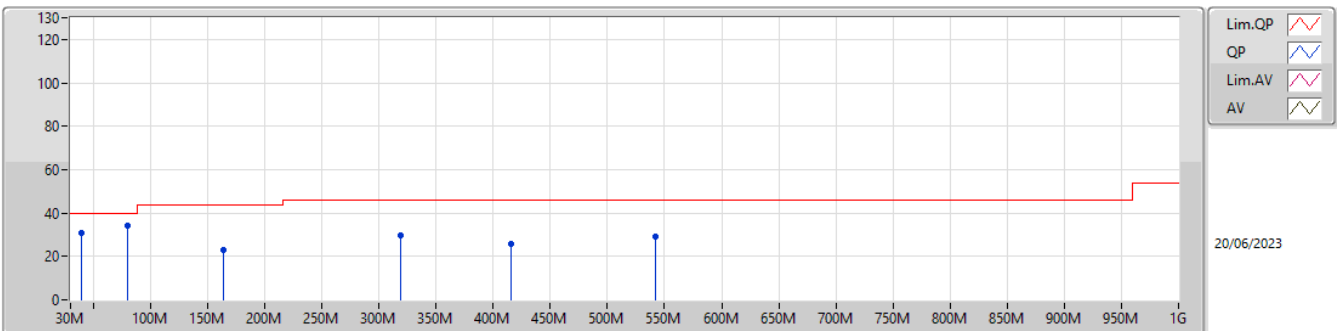
2440MHz\_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30M	33.96	40.00	-6.04	-3.56	3	Vertical	360	1.00	37.52	23.14	1.21	27.91
PK	35.82M	34.49	40.00	-5.51	-6.65	3	Vertical	360	1.00	41.14	20.01	1.35	28.01
PK	82.38M	29.94	40.00	-10.06	-13.58	3	Vertical	360	1.00	43.52	12.42	1.89	27.89
PK	260.86M	22.92	46.00	-23.08	-5.23	3	Vertical	360	1.00	28.15	18.79	3.09	27.11
PK	400.54M	24.93	46.00	-21.07	-2.91	3	Vertical	360	1.00	27.84	21.00	3.90	27.81
PK	582.9M	28.18	46.00	-17.82	0.42	3	Vertical	360	1.00	27.76	23.96	4.67	28.21

2.4-2.4835GHz\_BT-LE(2Mbps)

2440MHz\_Adapter

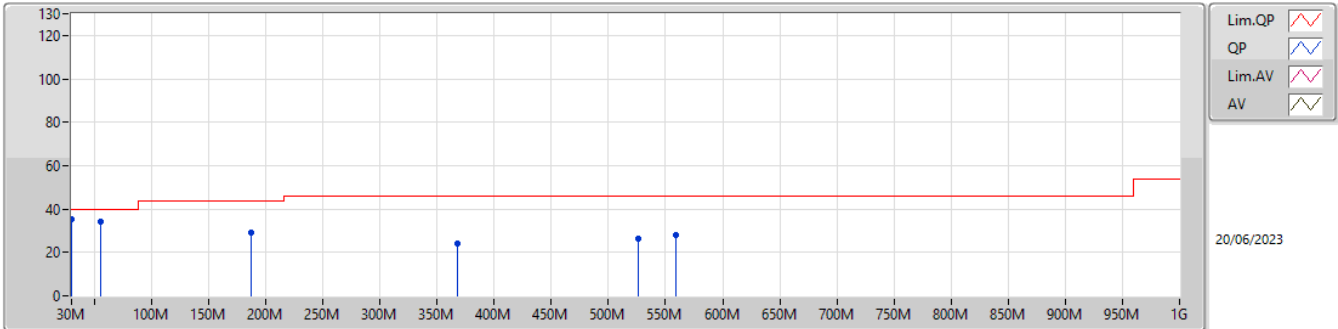


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	39.7M	30.99	40.00	-9.01	-8.61	3	Horizontal	0	1.00	39.60	18.01	1.41	28.03
PK	80.44M	34.16	40.00	-5.84	-13.82	3	Horizontal	0	1.00	47.98	12.18	1.89	27.89
PK	163.86M	23.07	43.50	-20.43	-10.06	3	Horizontal	0	1.00	33.13	15.03	2.48	27.57
PK	319.06M	29.86	46.00	-16.14	-5.05	3	Horizontal	0	1.00	34.91	18.74	3.43	27.22
PK	416.06M	25.62	46.00	-20.38	-2.14	3	Horizontal	0	1.00	27.76	21.73	4.02	27.89
PK	542.16M	29.26	46.00	-16.74	-0.34	3	Horizontal	0	1.00	29.60	23.41	4.50	28.25



2.4-2.4835GHz\_BT-LE(2Mbps)

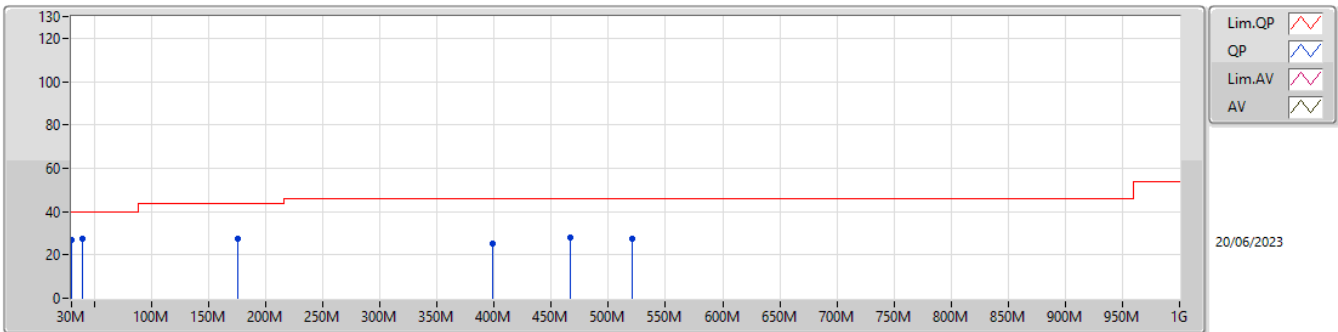
2440MHz\_USB



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30M	35.51	40.00	-4.49	-3.56	3	Vertical	360	1.00	39.07	23.14	1.21	27.91
PK	55.22M	34.02	40.00	-5.98	-14.76	3	Vertical	360	1.00	48.78	11.83	1.45	28.04
PK	187.14M	29.14	43.50	-14.36	-10.54	3	Vertical	360	1.00	39.68	14.26	2.63	27.43
PK	367.56M	23.82	46.00	-22.18	-3.84	3	Vertical	360	1.00	27.66	19.99	3.74	27.57
PK	526.64M	26.30	46.00	-19.70	-0.98	3	Vertical	360	1.00	27.28	22.79	4.47	28.24
PK	559.62M	28.29	46.00	-17.71	0.30	3	Vertical	360	1.00	27.99	23.98	4.56	28.24

2.4-2.4835GHz\_BT-LE(2Mbps)

2440MHz\_USB



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30M	26.74	40.00	-13.26	-3.56	3	Horizontal	0	1.00	30.30	23.14	1.21	27.91
PK	39.7M	27.65	40.00	-12.35	-8.61	3	Horizontal	0	1.00	36.26	18.01	1.41	28.03
PK	175.5M	27.23	43.50	-16.27	-10.34	3	Horizontal	0	1.00	37.57	14.62	2.52	27.48
PK	398.6M	25.32	46.00	-20.68	-3.02	3	Horizontal	0	1.00	28.34	20.89	3.89	27.80
PK	466.5M	27.79	46.00	-18.21	-1.41	3	Horizontal	0	1.00	29.20	22.39	4.32	28.12
PK	520.82M	27.20	46.00	-18.80	-1.09	3	Horizontal	0	1.00	28.29	22.69	4.46	28.24



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	AV	2.4888G	46.23	54.00	-7.77	3	Vertical	148
BT-LE(2Mbps)	Pass	AV	2.4962G	47.70	54.00	-6.30	3	Vertical	148



Result

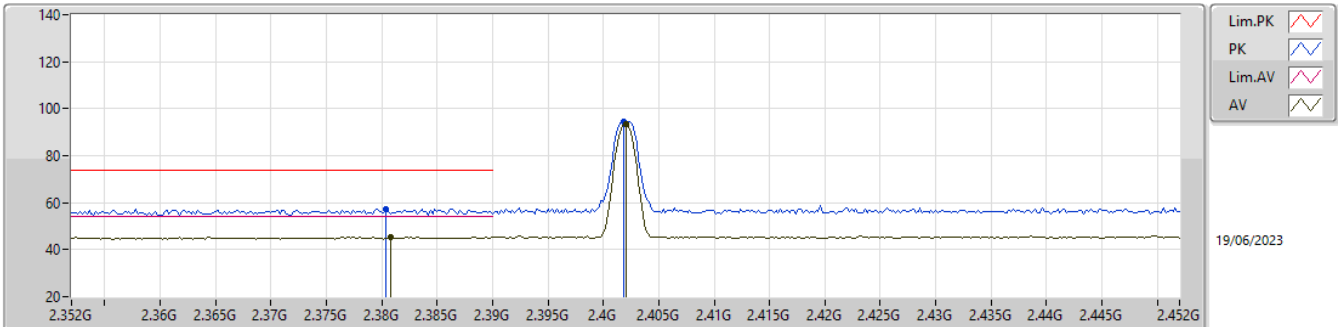
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3808G	45.52	54.00	-8.48	3	Vertical	239
2402MHz	Pass	AV	2.402G	93.39	Inf	-Inf	3	Vertical	239
2402MHz	Pass	PK	2.3804G	57.39	74.00	-16.61	3	Vertical	239
2402MHz	Pass	PK	2.4018G	94.57	Inf	-Inf	3	Vertical	239
2402MHz	Pass	AV	2.3734G	45.59	54.00	-8.41	3	Horizontal	79
2402MHz	Pass	AV	2.402G	96.42	Inf	-Inf	3	Horizontal	79
2402MHz	Pass	PK	2.37G	58.18	74.00	-15.82	3	Horizontal	79
2402MHz	Pass	PK	2.4018G	97.56	Inf	-Inf	3	Horizontal	79
2402MHz	Pass	AV	4.80402G	33.79	54.00	-20.21	3	Vertical	206
2402MHz	Pass	PK	4.80461G	44.11	74.00	-29.89	3	Vertical	206
2402MHz	Pass	AV	4.80405G	36.83	54.00	-17.17	3	Horizontal	54
2402MHz	Pass	PK	4.80327G	45.71	74.00	-28.29	3	Horizontal	54
2440MHz	Pass	AV	2.3864G	45.31	54.00	-8.69	3	Vertical	148
2440MHz	Pass	AV	2.44G	91.33	Inf	-Inf	3	Vertical	148
2440MHz	Pass	AV	2.4888G	46.23	54.00	-7.77	3	Vertical	148
2440MHz	Pass	PK	2.3556G	57.32	74.00	-16.68	3	Vertical	148
2440MHz	Pass	PK	2.4404G	92.47	Inf	-Inf	3	Vertical	148
2440MHz	Pass	PK	2.4904G	57.87	74.00	-16.13	3	Vertical	148
2440MHz	Pass	AV	2.368G	45.32	54.00	-8.68	3	Horizontal	81
2440MHz	Pass	AV	2.44G	95.36	Inf	-Inf	3	Horizontal	81
2440MHz	Pass	AV	2.4936G	46.00	54.00	-8.00	3	Horizontal	81
2440MHz	Pass	PK	2.3796G	58.11	74.00	-15.89	3	Horizontal	81
2440MHz	Pass	PK	2.4396G	96.53	Inf	-Inf	3	Horizontal	81
2440MHz	Pass	PK	2.4912G	58.12	74.00	-15.88	3	Horizontal	81
2440MHz	Pass	AV	4.87949G	33.72	54.00	-20.28	3	Vertical	206
2440MHz	Pass	PK	4.87923G	43.99	74.00	-30.01	3	Vertical	206
2440MHz	Pass	AV	4.87991G	36.73	54.00	-17.27	3	Horizontal	49
2440MHz	Pass	PK	4.87956G	45.43	74.00	-28.57	3	Horizontal	49
2480MHz	Pass	AV	2.48G	91.21	Inf	-Inf	3	Vertical	149
2480MHz	Pass	AV	2.485G	46.18	54.00	-7.82	3	Vertical	149
2480MHz	Pass	PK	2.4798G	92.38	Inf	-Inf	3	Vertical	149
2480MHz	Pass	PK	2.496G	58.99	74.00	-15.01	3	Vertical	149
2480MHz	Pass	AV	2.48G	93.98	Inf	-Inf	3	Horizontal	82
2480MHz	Pass	AV	2.4876G	46.19	54.00	-7.81	3	Horizontal	82
2480MHz	Pass	PK	2.4798G	95.12	Inf	-Inf	3	Horizontal	82
2480MHz	Pass	PK	2.4856G	58.61	74.00	-15.39	3	Horizontal	82
2480MHz	Pass	AV	4.9597G	33.48	54.00	-20.52	3	Vertical	209
2480MHz	Pass	PK	4.95931G	45.07	74.00	-28.93	3	Vertical	209
2480MHz	Pass	AV	4.95981G	34.74	54.00	-19.26	3	Horizontal	58
2480MHz	Pass	PK	4.96041G	45.25	74.00	-28.75	3	Horizontal	58
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.386G	47.11	54.00	-6.89	3	Vertical	147
2402MHz	Pass	AV	2.402G	91.92	Inf	-Inf	3	Vertical	147
2402MHz	Pass	PK	2.3608G	57.88	74.00	-16.12	3	Vertical	147
2402MHz	Pass	PK	2.4014G	94.45	Inf	-Inf	3	Vertical	147
2402MHz	Pass	AV	2.3794G	47.27	54.00	-6.73	3	Horizontal	79
2402MHz	Pass	AV	2.402G	93.43	Inf	-Inf	3	Horizontal	79
2402MHz	Pass	PK	2.3724G	57.73	74.00	-16.27	3	Horizontal	79
2402MHz	Pass	PK	2.4014G	95.98	Inf	-Inf	3	Horizontal	79
2402MHz	Pass	AV	4.80293G	35.07	54.00	-18.93	3	Vertical	206
2402MHz	Pass	PK	4.80461G	43.62	74.00	-30.38	3	Vertical	206
2402MHz	Pass	AV	4.80302G	38.22	54.00	-15.78	3	Horizontal	57
2402MHz	Pass	PK	4.80303G	45.61	74.00	-28.39	3	Horizontal	57
2440MHz	Pass	AV	2.3864G	46.97	54.00	-7.03	3	Vertical	146
2440MHz	Pass	AV	2.44G	90.38	Inf	-Inf	3	Vertical	146
2440MHz	Pass	AV	2.4844G	47.30	54.00	-6.70	3	Vertical	146
2440MHz	Pass	PK	2.3752G	57.02	74.00	-16.98	3	Vertical	146
2440MHz	Pass	PK	2.4396G	92.94	Inf	-Inf	3	Vertical	146
2440MHz	Pass	PK	2.49G	58.31	74.00	-15.69	3	Vertical	146
2440MHz	Pass	AV	2.3796G	47.06	54.00	-6.94	3	Horizontal	81



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)
2440MHz	Pass	AV	2.44G	93.02	Inf	-Inf	3	Horizontal	81
2440MHz	Pass	AV	2.4835G	47.47	54.00	-6.53	3	Horizontal	81
2440MHz	Pass	PK	2.3512G	58.34	74.00	-15.66	3	Horizontal	81
2440MHz	Pass	PK	2.4396G	95.59	Inf	-Inf	3	Horizontal	81
2440MHz	Pass	PK	2.4912G	57.92	74.00	-16.08	3	Horizontal	81
2440MHz	Pass	AV	4.87881G	35.28	54.00	-18.72	3	Vertical	205
2440MHz	Pass	PK	4.87907G	44.35	74.00	-29.65	3	Vertical	205
2440MHz	Pass	AV	4.87893G	37.96	54.00	-16.04	3	Horizontal	47
2440MHz	Pass	PK	4.87903G	46.28	74.00	-27.72	3	Horizontal	47
2480MHz	Pass	AV	2.48G	89.76	Inf	-Inf	3	Vertical	148
2480MHz	Pass	AV	2.4962G	47.70	54.00	-6.30	3	Vertical	148
2480MHz	Pass	PK	2.4794G	92.43	Inf	-Inf	3	Vertical	148
2480MHz	Pass	PK	2.4924G	58.25	74.00	-15.75	3	Vertical	148
2480MHz	Pass	AV	2.48G	92.93	Inf	-Inf	3	Horizontal	84
2480MHz	Pass	AV	2.4842G	47.60	54.00	-6.40	3	Horizontal	84
2480MHz	Pass	PK	2.4794G	95.44	Inf	-Inf	3	Horizontal	84
2480MHz	Pass	PK	2.4882G	58.75	74.00	-15.25	3	Horizontal	84
2480MHz	Pass	AV	4.95891G	33.75	54.00	-20.25	3	Vertical	312
2480MHz	Pass	PK	4.9594G	43.39	74.00	-30.61	3	Vertical	312
2480MHz	Pass	AV	4.95894G	36.35	54.00	-17.65	3	Horizontal	67
2480MHz	Pass	PK	4.96119G	45.66	74.00	-28.34	3	Horizontal	67

2.4-2.4835GHz\_BT-LE(1Mbps)

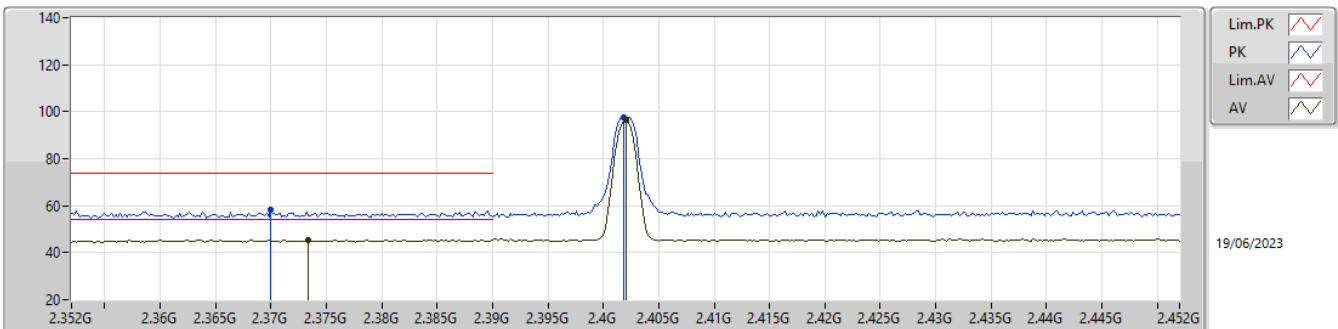
2402MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3808G	45.52	54.00	-8.48	31.69	3	Vertical	239	1.16	13.83	27.45	4.24	-
AV	2.402G	93.39	Inf	-Inf	31.86	3	Vertical	239	1.16	61.53	27.60	4.26	-
PK	2.3804G	57.39	74.00	-16.61	31.68	3	Vertical	239	1.16	25.71	27.44	4.24	-
PK	2.4018G	94.57	Inf	-Inf	31.86	3	Vertical	239	1.16	62.71	27.60	4.26	-

2.4-2.4835GHz\_BT-LE(1Mbps)

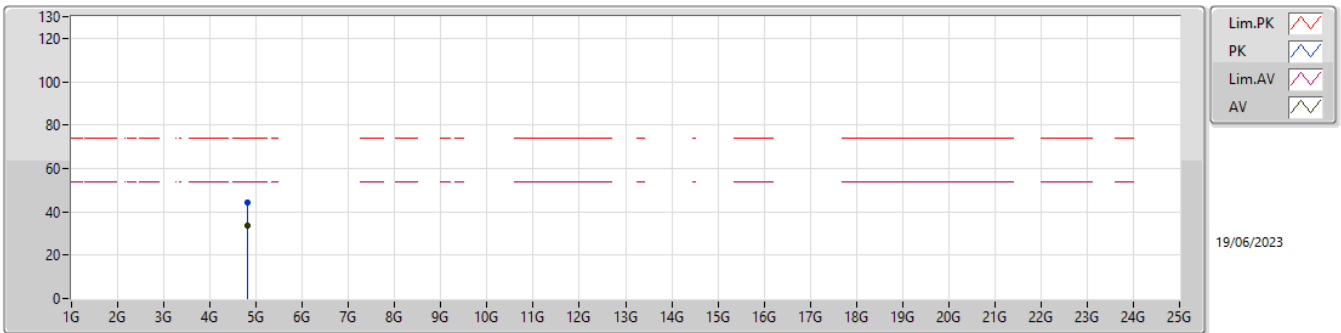
2402MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3734G	45.59	54.00	-8.41	31.63	3	Horizontal	79	1.52	13.96	27.39	4.24	-
AV	2.402G	96.42	Inf	-Inf	31.86	3	Horizontal	79	1.52	64.56	27.60	4.26	-
PK	2.37G	58.18	74.00	-15.82	31.59	3	Horizontal	79	1.52	26.59	27.36	4.23	-
PK	2.4018G	97.56	Inf	-Inf	31.86	3	Horizontal	79	1.52	65.70	27.60	4.26	-

2.4-2.4835GHz\_BT-LE(1Mbps)

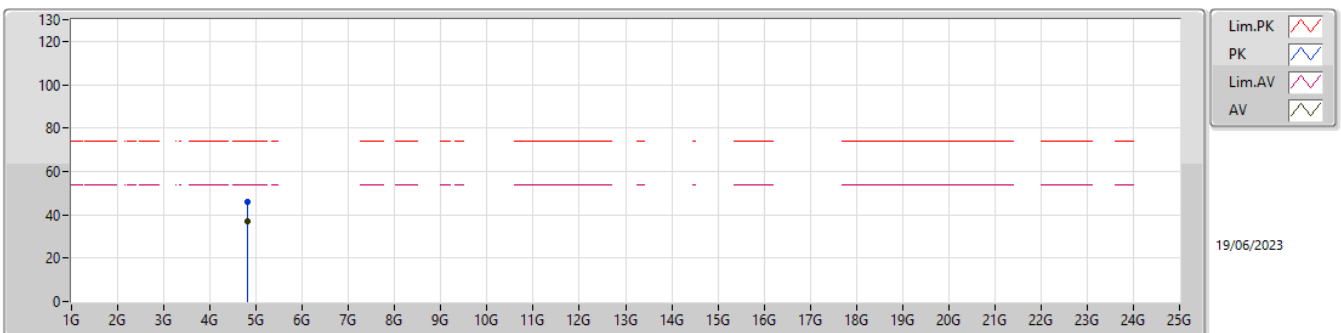
2402MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80402G	33.79	54.00	-20.21	4.19	3	Vertical	206	1.00	29.60	32.22	6.16	34.19
PK	4.80461G	44.11	74.00	-29.89	4.20	3	Vertical	206	1.00	39.91	32.23	6.16	34.19

2.4-2.4835GHz\_BT-LE(1Mbps)

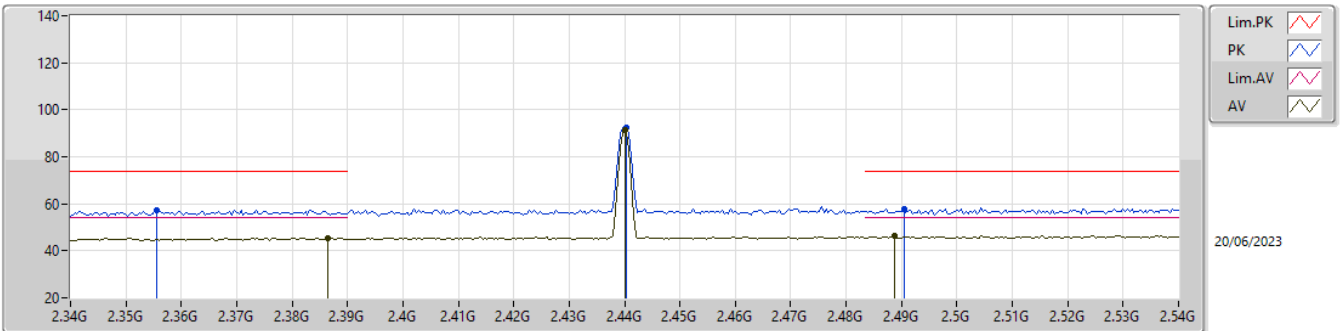
2402MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80405G	36.83	54.00	-17.17	4.19	3	Horizontal	54	1.17	32.64	32.22	6.16	34.19
PK	4.80327G	45.71	74.00	-28.29	4.19	3	Horizontal	54	1.17	41.52	32.22	6.16	34.19

2.4-2.4835GHz\_BT-LE(1Mbps)

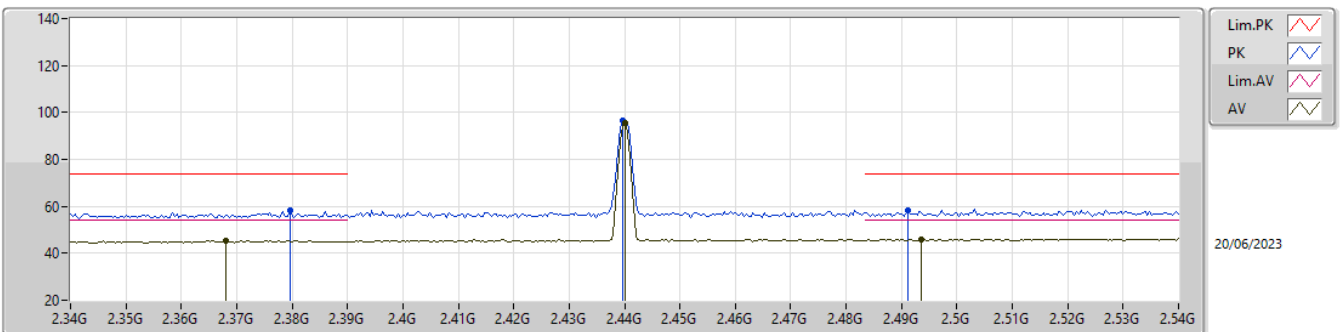
2440MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3864G	45.31	54.00	-8.69	31.74	3	Vertical	148	1.50	13.57	27.49	4.25	-
AV	2.44G	91.33	Inf	-Inf	31.96	3	Vertical	148	1.50	59.37	27.68	4.28	-
AV	2.4888G	46.23	54.00	-7.77	32.17	3	Vertical	148	1.50	14.06	27.86	4.31	-
PK	2.3556G	57.32	74.00	-16.68	31.46	3	Vertical	148	1.50	25.86	27.24	4.22	-
PK	2.4404G	92.47	Inf	-Inf	31.96	3	Vertical	148	1.50	60.51	27.68	4.28	-
PK	2.4904G	57.87	74.00	-16.13	32.17	3	Vertical	148	1.50	25.70	27.86	4.31	-

2.4-2.4835GHz\_BT-LE(1Mbps)

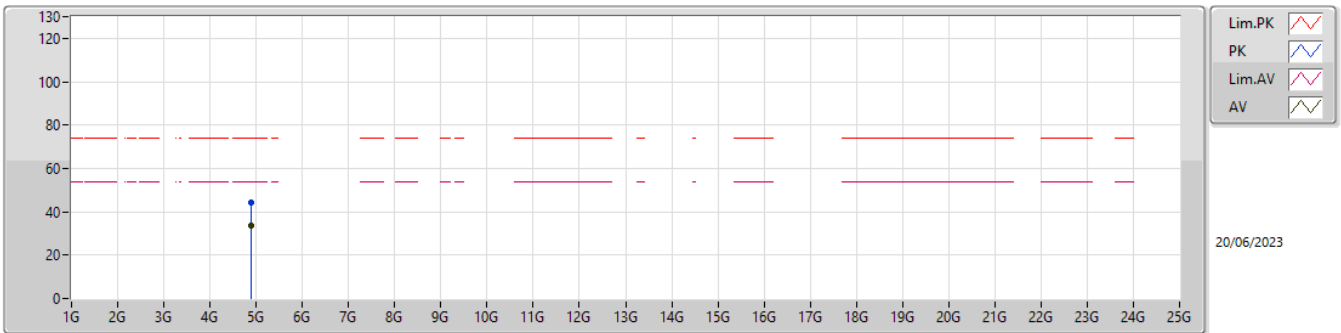
2440MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.368G	45.32	54.00	-8.68	31.57	3	Horizontal	81	1.50	13.75	27.34	4.23	-
AV	2.44G	95.36	Inf	-Inf	31.96	3	Horizontal	81	1.50	63.40	27.68	4.28	-
AV	2.4936G	46.00	54.00	-8.00	32.19	3	Horizontal	81	1.50	13.81	27.87	4.32	-
PK	2.3796G	58.11	74.00	-15.89	31.68	3	Horizontal	81	1.50	26.43	27.44	4.24	-
PK	2.4396G	96.53	Inf	-Inf	31.96	3	Horizontal	81	1.50	64.57	27.68	4.28	-
PK	2.4912G	58.12	74.00	-15.88	32.17	3	Horizontal	81	1.50	25.95	27.86	4.31	-

2.4-2.4835GHz\_BT-LE(1Mbps)

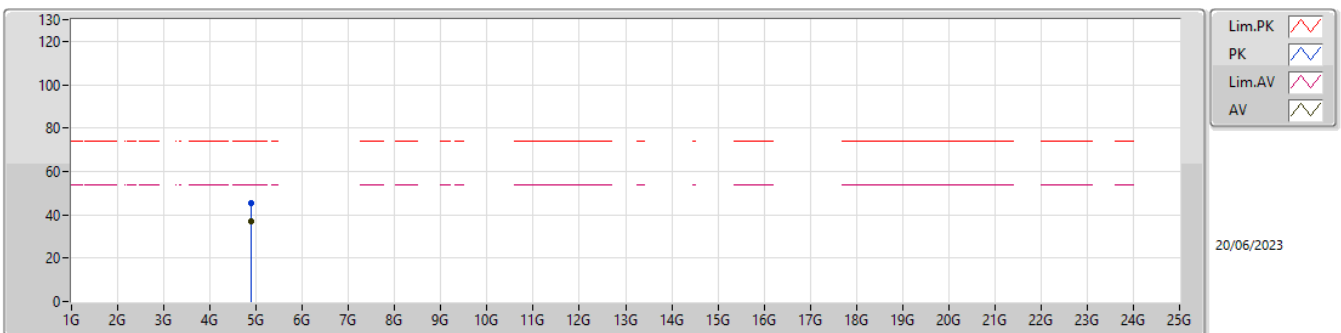
2440MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87949G	33.72	54.00	-20.28	4.68	3	Vertical	206	1.20	29.04	32.62	6.22	34.16
PK	4.87923G	43.99	74.00	-30.01	4.68	3	Vertical	206	1.20	39.31	32.62	6.22	34.16

2.4-2.4835GHz\_BT-LE(1Mbps)

2440MHz\_TX

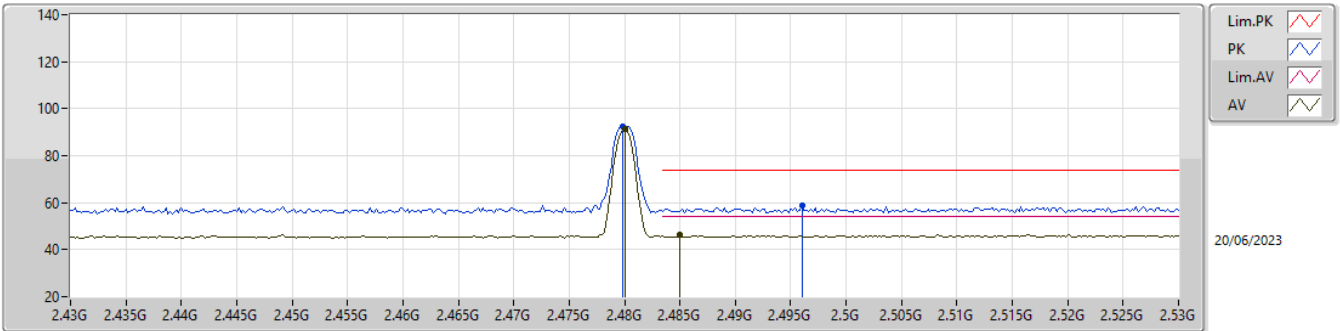


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87991G	36.73	54.00	-17.27	4.68	3	Horizontal	49	1.54	32.05	32.62	6.22	34.16
PK	4.87956G	45.43	74.00	-28.57	4.68	3	Horizontal	49	1.54	40.75	32.62	6.22	34.16



2.4-2.4835GHz\_BT-LE(1Mbps)

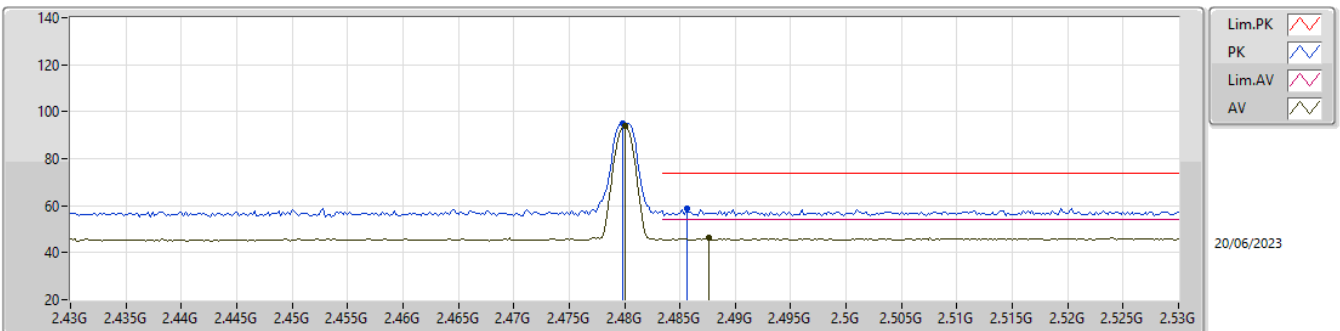
2480MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	91.21	Inf	-Inf	32.13	3	Vertical	149	1.56	59.08	27.82	4.31	-
AV	2.485G	46.18	54.00	-7.82	32.15	3	Vertical	149	1.56	14.03	27.84	4.31	-
PK	2.4798G	92.38	Inf	-Inf	32.13	3	Vertical	149	1.56	60.25	27.82	4.31	-
PK	2.496G	58.99	74.00	-15.01	32.20	3	Vertical	149	1.56	26.79	27.88	4.32	-

2.4-2.4835GHz\_BT-LE(1Mbps)

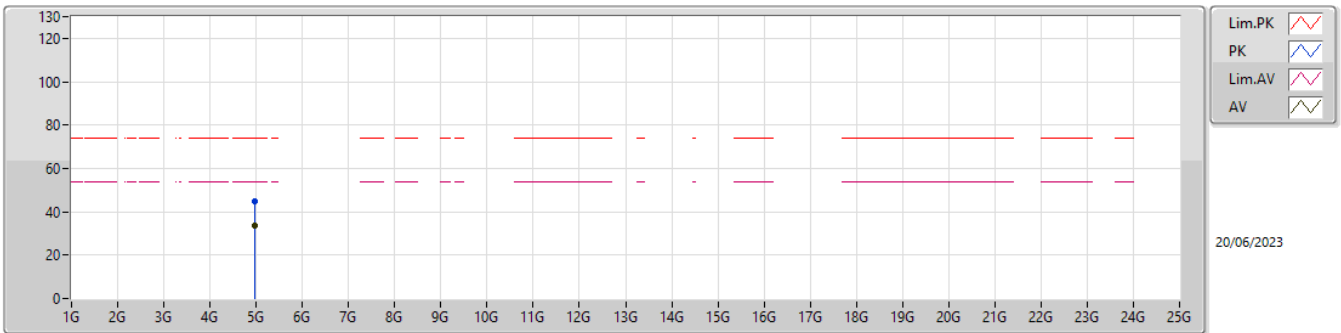
2480MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	93.98	Inf	-Inf	32.13	3	Horizontal	82	1.44	61.85	27.82	4.31	-
AV	2.4876G	46.19	54.00	-7.81	32.16	3	Horizontal	82	1.44	14.03	27.85	4.31	-
PK	2.4798G	95.12	Inf	-Inf	32.13	3	Horizontal	82	1.44	62.99	27.82	4.31	-
PK	2.4856G	58.61	74.00	-15.39	32.15	3	Horizontal	82	1.44	26.46	27.84	4.31	-

2.4-2.4835GHz\_BT-LE(1Mbps)

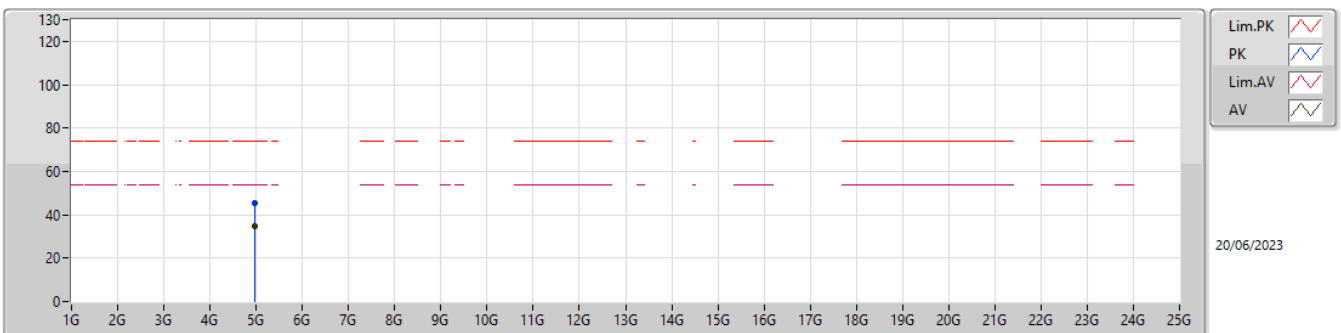
2480MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9597G	33.48	54.00	-20.52	5.18	3	Vertical	209	1.30	28.30	33.04	6.27	34.13
PK	4.95931G	45.07	74.00	-28.93	5.18	3	Vertical	209	1.30	39.89	33.04	6.27	34.13

2.4-2.4835GHz\_BT-LE(1Mbps)

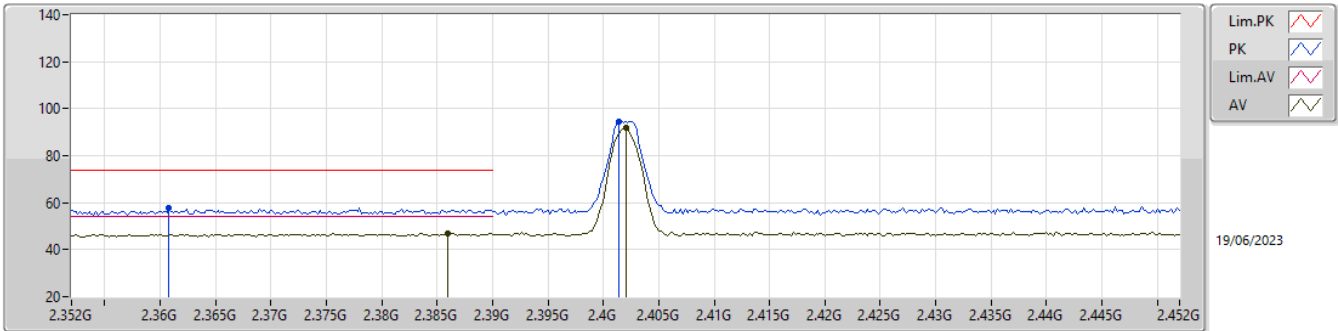
2480MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95981G	34.74	54.00	-19.26	5.18	3	Horizontal	58	1.17	29.56	33.04	6.27	34.13
PK	4.96041G	45.25	74.00	-28.75	5.18	3	Horizontal	58	1.17	40.07	33.04	6.27	34.13

2.4-2.4835GHz\_BT-LE(2Mbps)

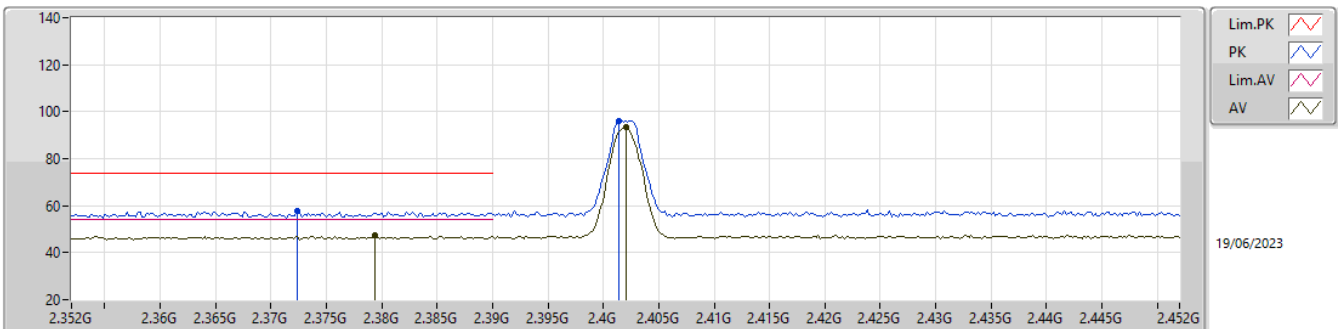
2402MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.386G	47.11	54.00	-6.89	31.74	3	Vertical	147	1.58	15.37	27.49	4.25	-
AV	2.402G	91.92	Inf	-Inf	31.86	3	Vertical	147	1.58	60.06	27.60	4.26	-
PK	2.3608G	57.88	74.00	-16.12	31.52	3	Vertical	147	1.58	26.36	27.29	4.23	-
PK	2.4014G	94.45	Inf	-Inf	31.86	3	Vertical	147	1.58	62.59	27.60	4.26	-

2.4-2.4835GHz\_BT-LE(2Mbps)

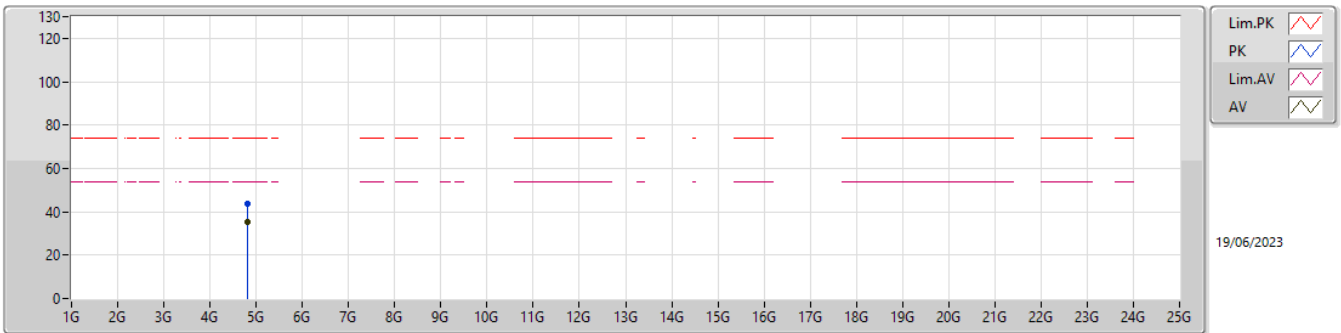
2402MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3794G	47.27	54.00	-6.73	31.68	3	Horizontal	79	1.34	15.59	27.44	4.24	-
AV	2.402G	93.43	Inf	-Inf	31.86	3	Horizontal	79	1.34	61.57	27.60	4.26	-
PK	2.3724G	57.73	74.00	-16.27	31.62	3	Horizontal	79	1.34	26.11	27.38	4.24	-
PK	2.4014G	95.98	Inf	-Inf	31.86	3	Horizontal	79	1.34	64.12	27.60	4.26	-

2.4-2.4835GHz\_BT-LE(2Mbps)

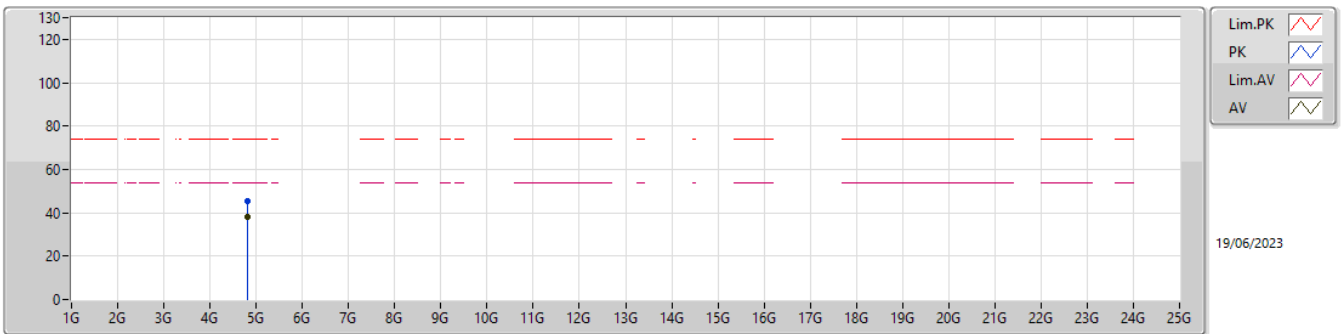
2402MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80293G	35.07	54.00	-18.93	4.19	3	Vertical	206	1.00	30.88	32.22	6.16	34.19
PK	4.80461G	43.62	74.00	-30.38	4.20	3	Vertical	206	1.00	39.42	32.23	6.16	34.19

2.4-2.4835GHz\_BT-LE(2Mbps)

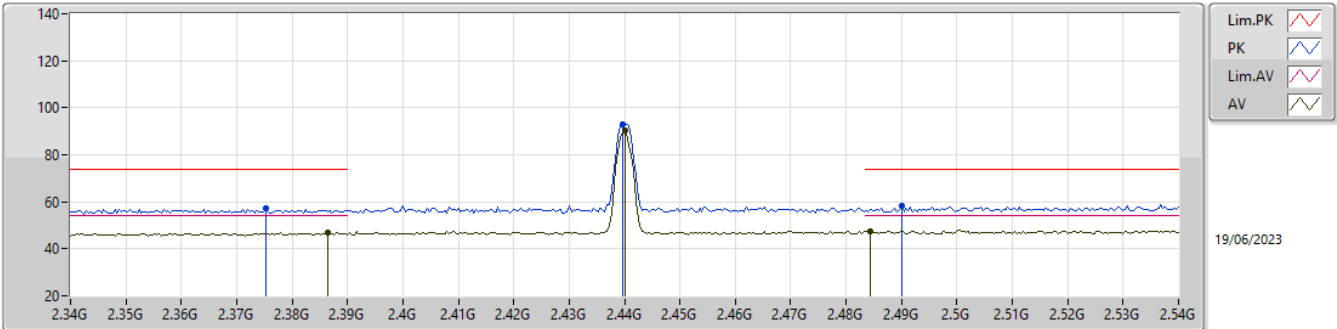
2402MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80302G	38.22	54.00	-15.78	4.19	3	Horizontal	57	1.91	34.03	32.22	6.16	34.19
PK	4.80303G	45.61	74.00	-28.39	4.19	3	Horizontal	57	1.91	41.42	32.22	6.16	34.19

2.4-2.4835GHz\_BT-LE(2Mbps)

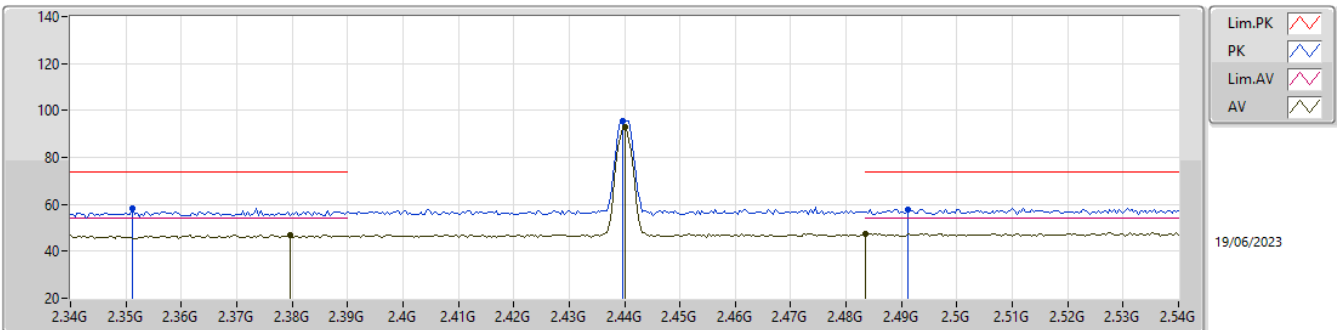
2440MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3864G	46.97	54.00	-7.03	31.74	3	Vertical	146	1.50	15.23	27.49	4.25	-
AV	2.44G	90.38	Inf	-Inf	31.96	3	Vertical	146	1.50	58.42	27.68	4.28	-
AV	2.4844G	47.30	54.00	-6.70	32.15	3	Vertical	146	1.50	15.15	27.84	4.31	-
PK	2.3752G	57.02	74.00	-16.98	31.64	3	Vertical	146	1.50	25.38	27.40	4.24	-
PK	2.4396G	92.94	Inf	-Inf	31.96	3	Vertical	146	1.50	60.98	27.68	4.28	-
PK	2.49G	58.31	74.00	-15.69	32.17	3	Vertical	146	1.50	26.14	27.86	4.31	-

2.4-2.4835GHz\_BT-LE(2Mbps)

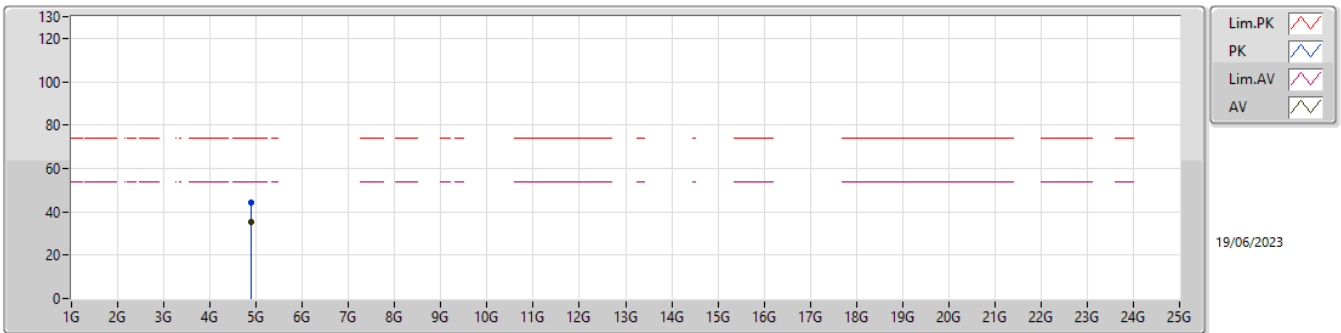
2440MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3796G	47.06	54.00	-6.94	31.68	3	Horizontal	81	1.50	15.38	27.44	4.24	-
AV	2.44G	93.02	Inf	-Inf	31.96	3	Horizontal	81	1.50	61.06	27.68	4.28	-
AV	2.4835G	47.47	54.00	-6.53	32.14	3	Horizontal	81	1.50	15.33	27.83	4.31	-
PK	2.3512G	58.34	74.00	-15.66	31.43	3	Horizontal	81	1.50	26.91	27.21	4.22	-
PK	2.4396G	95.59	Inf	-Inf	31.96	3	Horizontal	81	1.50	63.63	27.68	4.28	-
PK	2.4912G	57.92	74.00	-16.08	32.17	3	Horizontal	81	1.50	25.75	27.86	4.31	-

2.4-2.4835GHz\_BT-LE(2Mbps)

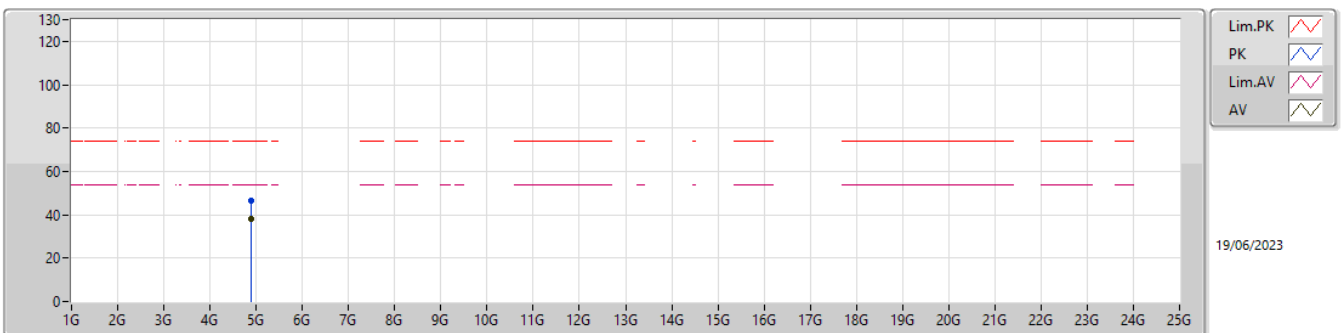
2440MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87881G	35.28	54.00	-18.72	4.68	3	Vertical	205	1.02	30.60	32.62	6.22	34.16
PK	4.87907G	44.35	74.00	-29.65	4.68	3	Vertical	205	1.02	39.67	32.62	6.22	34.16

2.4-2.4835GHz\_BT-LE(2Mbps)

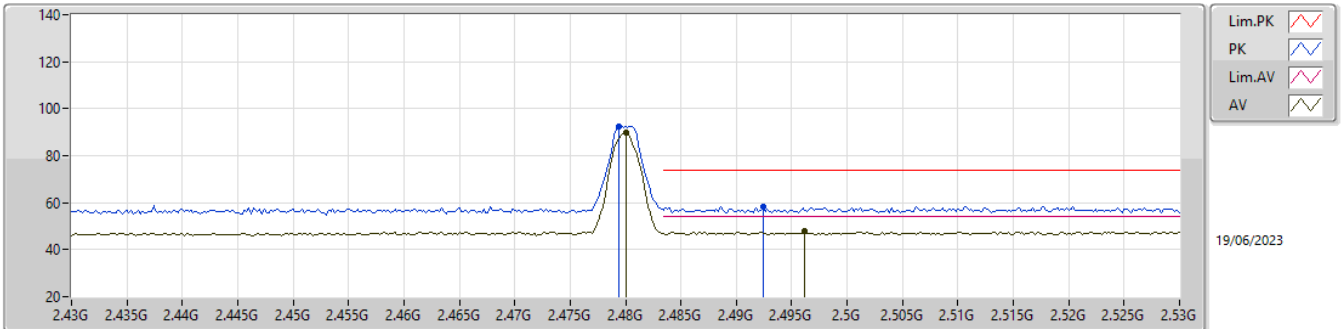
2440MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87893G	37.96	54.00	-16.04	4.68	3	Horizontal	47	1.54	33.28	32.62	6.22	34.16
PK	4.87903G	46.28	74.00	-27.72	4.68	3	Horizontal	47	1.54	41.60	32.62	6.22	34.16

2.4-2.4835GHz\_BT-LE(2Mbps)

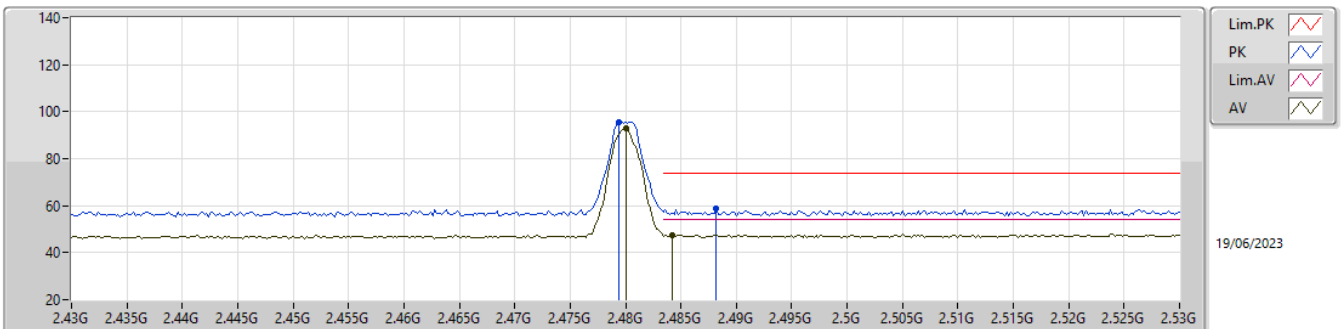
2480MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	89.76	Inf	-Inf	32.13	3	Vertical	148	1.56	57.63	27.82	4.31	-
AV	2.4962G	47.70	54.00	-6.30	32.20	3	Vertical	148	1.56	15.50	27.88	4.32	-
PK	2.4794G	92.43	Inf	-Inf	32.13	3	Vertical	148	1.56	60.30	27.82	4.31	-
PK	2.4924G	58.25	74.00	-15.75	32.19	3	Vertical	148	1.56	26.06	27.87	4.32	-

2.4-2.4835GHz\_BT-LE(2Mbps)

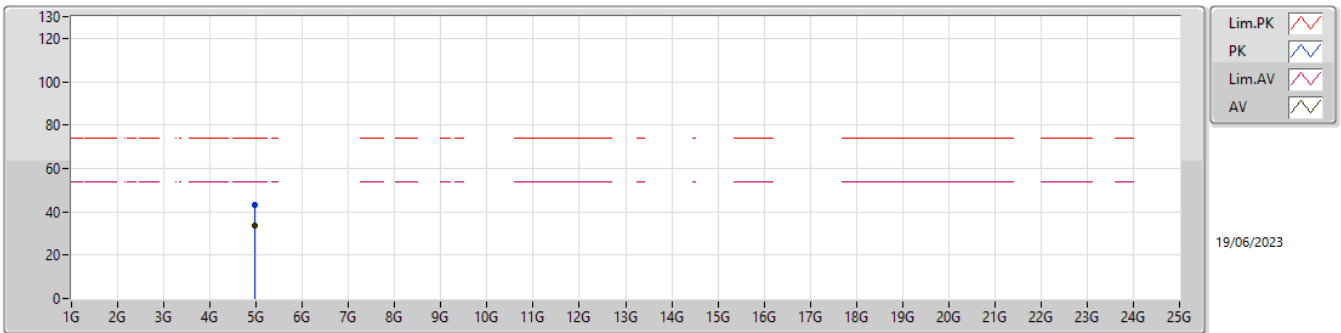
2480MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	92.93	Inf	-Inf	32.13	3	Horizontal	84	1.50	60.80	27.82	4.31	-
AV	2.4842G	47.60	54.00	-6.40	32.15	3	Horizontal	84	1.50	15.45	27.84	4.31	-
PK	2.4794G	95.44	Inf	-Inf	32.13	3	Horizontal	84	1.50	63.31	27.82	4.31	-
PK	2.4882G	58.75	74.00	-15.25	32.16	3	Horizontal	84	1.50	26.59	27.85	4.31	-

2.4-2.4835GHz\_BT-LE(2Mbps)

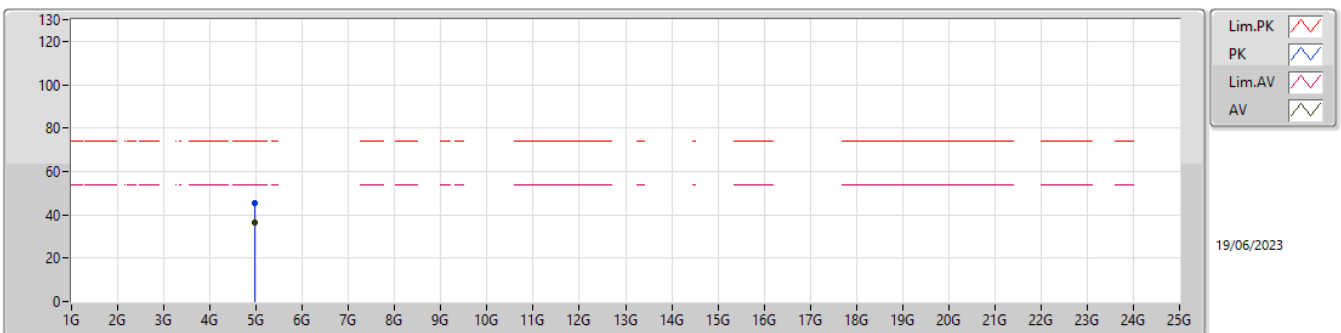
2480MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95891G	33.75	54.00	-20.25	5.18	3	Vertical	312	1.49	28.57	33.04	6.27	34.13
PK	4.9594G	43.39	74.00	-30.61	5.18	3	Vertical	312	1.49	38.21	33.04	6.27	34.13

2.4-2.4835GHz\_BT-LE(2Mbps)

2480MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95894G	36.35	54.00	-17.65	5.18	3	Horizontal	67	1.01	31.17	33.04	6.27	34.13
PK	4.96119G	45.66	74.00	-28.34	5.18	3	Horizontal	67	1.01	40.48	33.04	6.27	34.13