

# FCC Radio Test Report

**FCC ID** : UDX-600126010  
**Equipment** : SMART Camera  
**Brand Name** : CISCO  
**Model Name** : MV23X-HW, MV23M-HW  
**Applicant** : Cisco Systems, Inc.  
170 West Tasman Drive, San Jose, CA 95134 USA  
**Manufacturer** : Cisco Systems, Inc.  
170 West Tasman Drive, San Jose, CA 95134 USA  
**Standard** : 47 CFR FCC Part 15.247

The product was received on Nov. 14, 2023, and testing was started from Dec. 05, 2023 and completed on Mar. 22, 2024. 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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### 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: Amber Chiu

# 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:
<ul style="list-style-type: none"> <li>Bluetooth LE uses a GFSK (1Mbps/2Mbps) modulation.</li> <li>BWch is the nominal channel bandwidth.</li> </ul>

### 1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support
1	Aristotle	JP600	PCB	I-Pex	2.4G+5G+BT
2	Aristotle	JP599	PCB	I-Pex	2.4G+5G

Ant.	Port	Gain (dBi)					
		2.4G	BT	5G			
				U-NII-1	U-NII-2A	U-NII-3C	U-NII-3
1	1	1.72	1.72	4.52	4.71	3.91	3.86
2	2	3.70	-	3.39	3.64	3.35	3.37

Note 1: The EUT has two antennas.

**For 2.4GHz function:**

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

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

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

**For 5GHz function:**

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

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

Support diversity function and pre-tested on each single chain, the worst case was Ant. 1(port 1) and it was recorded in this test report.

**For BT function:**

Only Ant. 1 (port 1) can be used as transmitting/receiving antenna.



1.1.3 EUT Information

Operational Condition	
EUT Power Type	From AC Adapter / PoE
Type of EUT	
<input checked="" type="checkbox"/>	Stand-alone
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device)
<input type="checkbox"/>	Combined Equipment - Brand Name / Model No.: ...
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)
<input type="checkbox"/>	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) ≥ 1/T
BT-LE(1Mbps)	0.628	2.02	392.813u	3k
BT-LE(2Mbps)	0.333	4.78	207.813u	10k

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

1.1.5 Table for Multiple Listing

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

Model Name	Memory Capacity	Description
MV23X-HW	1TB	All the models are identical, only the memory capacity is different.
MV23M-HW	256GB	

From the above models, model: MV23X-HW was selected as representative model for the test and its data was recorded in this report.

## 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

<b>Test Lab. : Sporton International Inc. Hsinhua Laboratory</b>				
<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	Daniel Lin	22.8~24.4°C / 52~56%	04/Jan/2024
RF Conducted	TH06-HY	Johnny Yu	21.9~22.4°C / 59~65%	05/Dec/2023
Radiated (Co-location)	03CH03-HY	Ivan Chung	21.3~22.0°C / 54~55%	22/Mar/2024
<input checked="" type="checkbox"/>	Wenhua 3rd. (TAF: 3785)	ADD: No. 58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist. Taoyuan City 333, Taiwan (R.O.C.)		
		TEL: 886-3-327-0868		
Test site Designation No. TW0036 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH24-HY	Rian Zhong	21.3~22.5°C / 54~57%	27/Dec/2023~15/Jan/2024

## 1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Emissions in Non-restricted Frequency Bands	0.14 dB	Confidence levels of 95%
Emissions in Restricted Frequency Bands	4.8 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%



## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

Test Software Version	QDART-Connectivity1.0-00095
-----------------------	-----------------------------




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	PoE 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	PoE 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	

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Simultaneous Transmission Analysis
<b>Test Condition</b>	Radiated measurement
1	WLAN 2.4GHz + Bluetooth
2	WLAN 5GHz + Bluetooth
Refer to Sporton Test Report No.: FA3N1319 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	



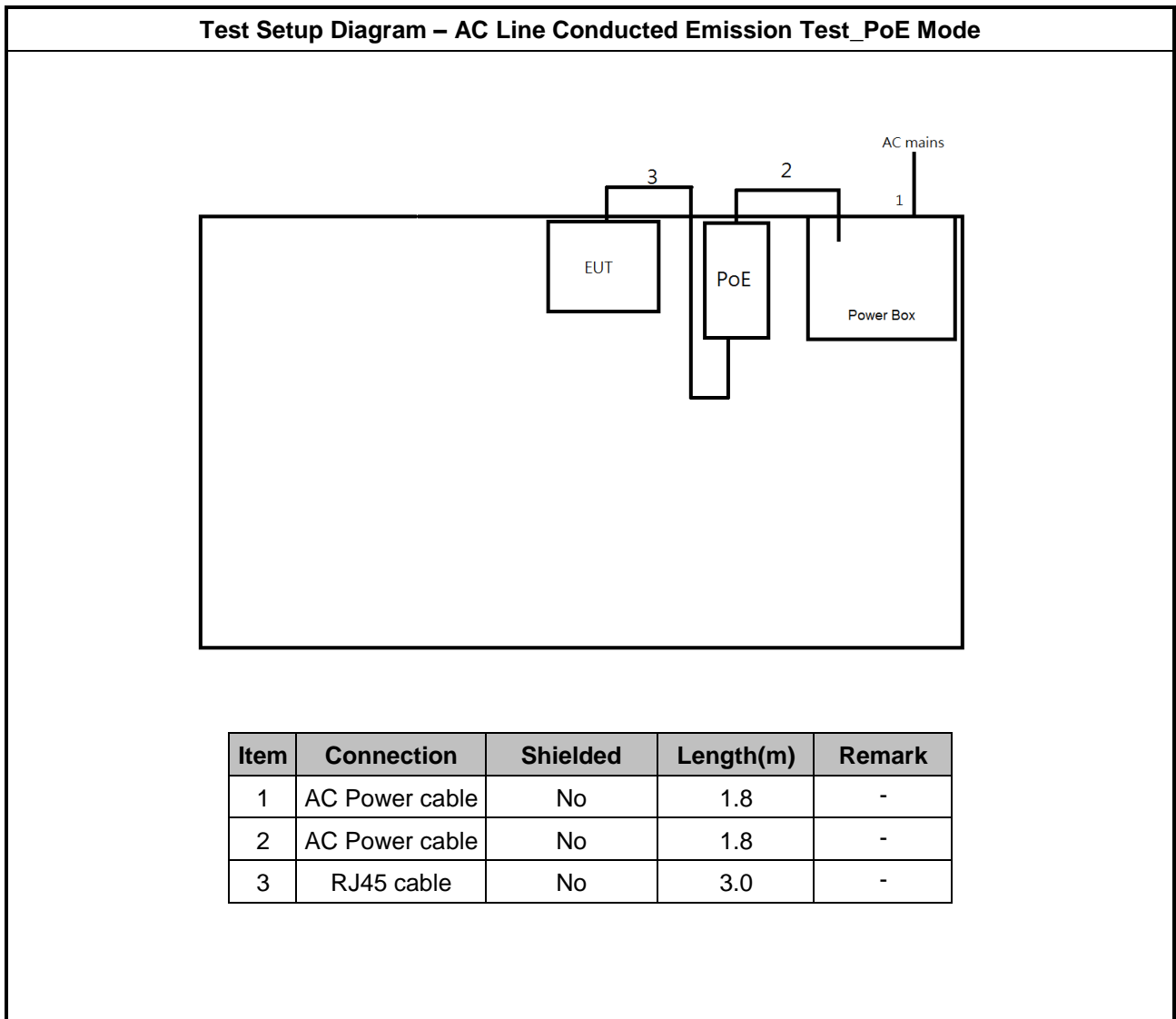
### 2.3 Support Equipment

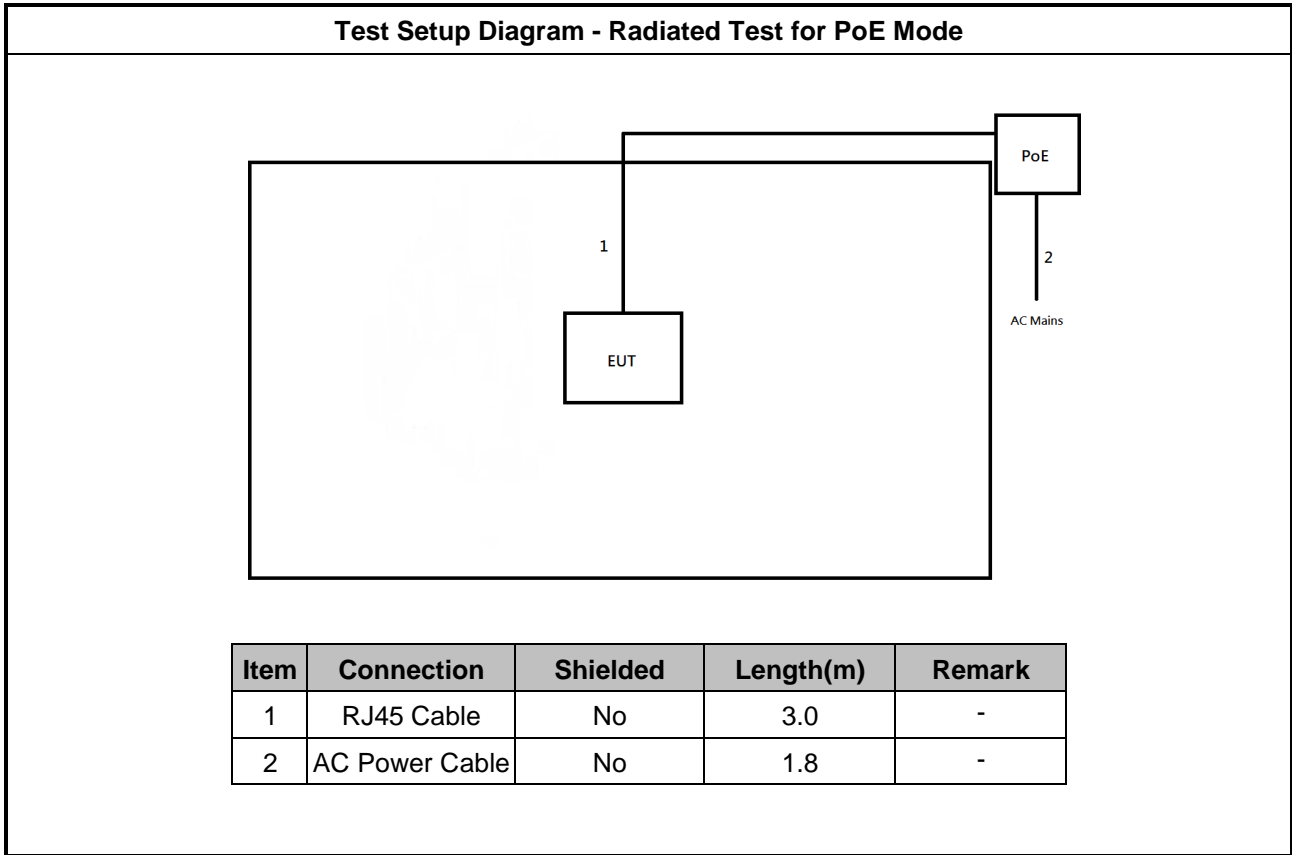
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC Power Cable	Power sync	PW-GPC180-3	-	-
2	PoE Adapter	CISCO	MA-INJ-4	-	Provided by Customer
3	RJ45 cable	Power sync	CAT-6E-03	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	Latitude 7290	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Micro USB	DUDAO	L7X	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 cable	Power sync	CAT-6E-03	-	-
2	PoE Adapter	CISCO	MA-INJ-4	-	Provided by Customer

## 2.4 Test Setup Diagram





### 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

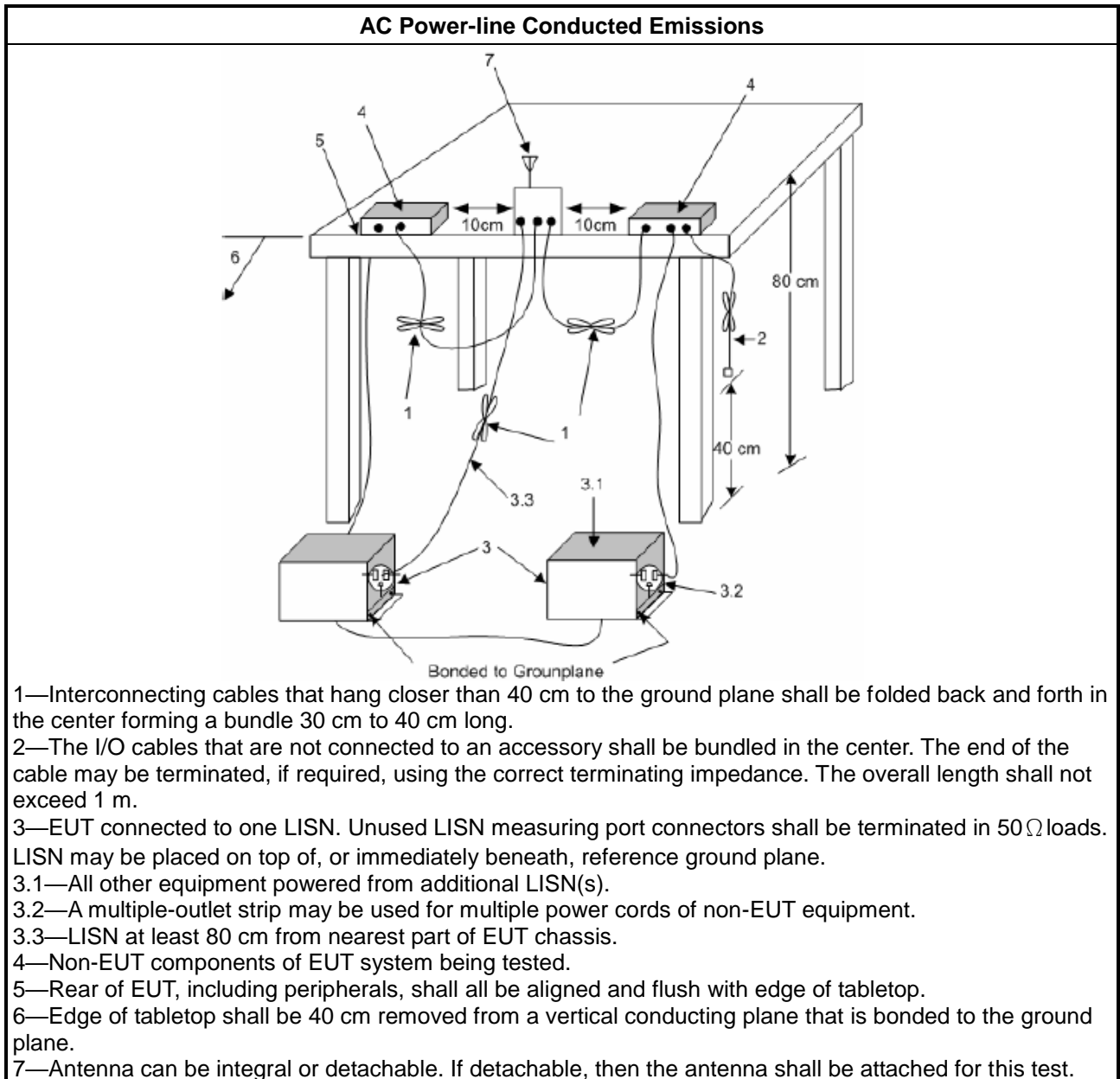
Test Method
<ul style="list-style-type: none"> <li>Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions.</li> </ul>

##### 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
<b>Systems using digital modulation techniques:</b>
<ul style="list-style-type: none"> <li>▪ 6 dB bandwidth <math>\geq</math> 500 kHz.</li> </ul>

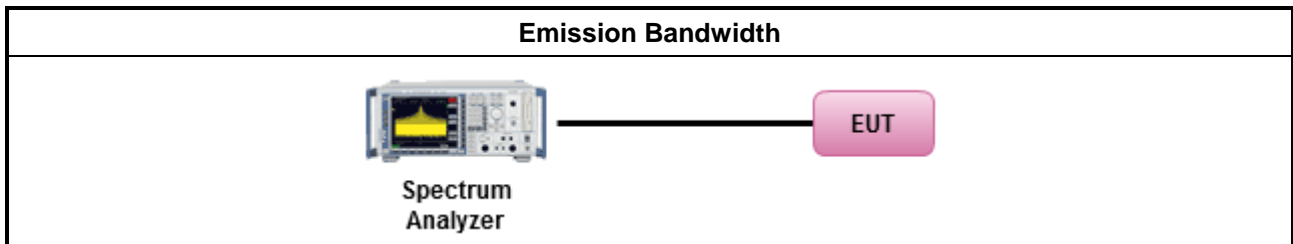
#### 3.2.2 Measuring Instruments

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

#### 3.2.3 Test Procedures

Test Method
<ul style="list-style-type: none"> <li>▪ For the emission bandwidth shall be measured using one of the options below:</li> </ul>
<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

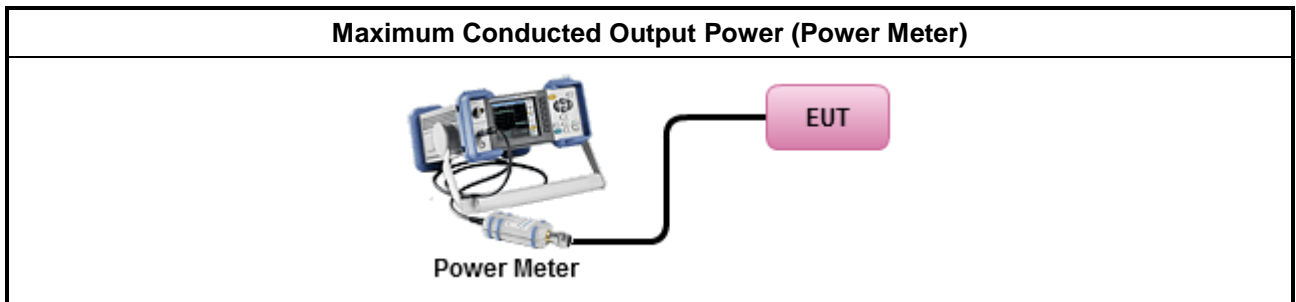
Refer a test equipment and calibration data table in this test report.



### 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>

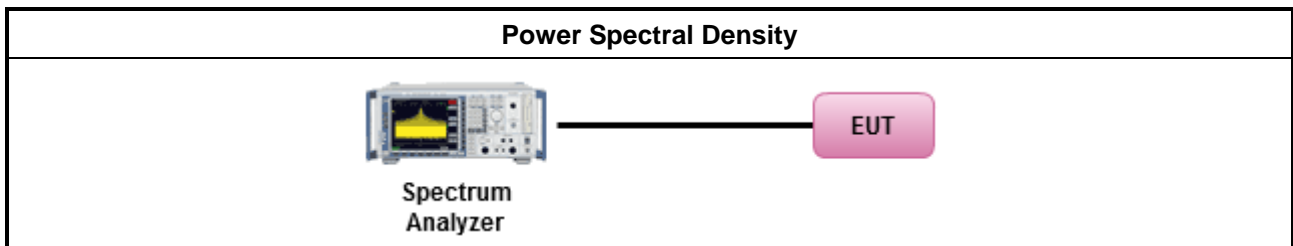
#### 3.4.2 Measuring Instruments

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.

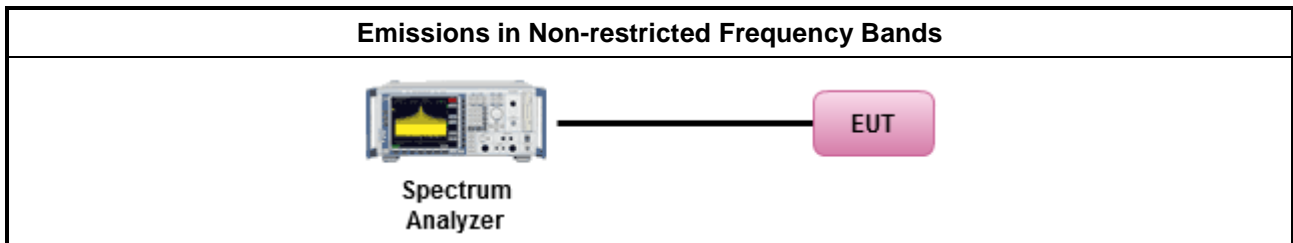
#### 3.5.2 Measuring Instruments

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

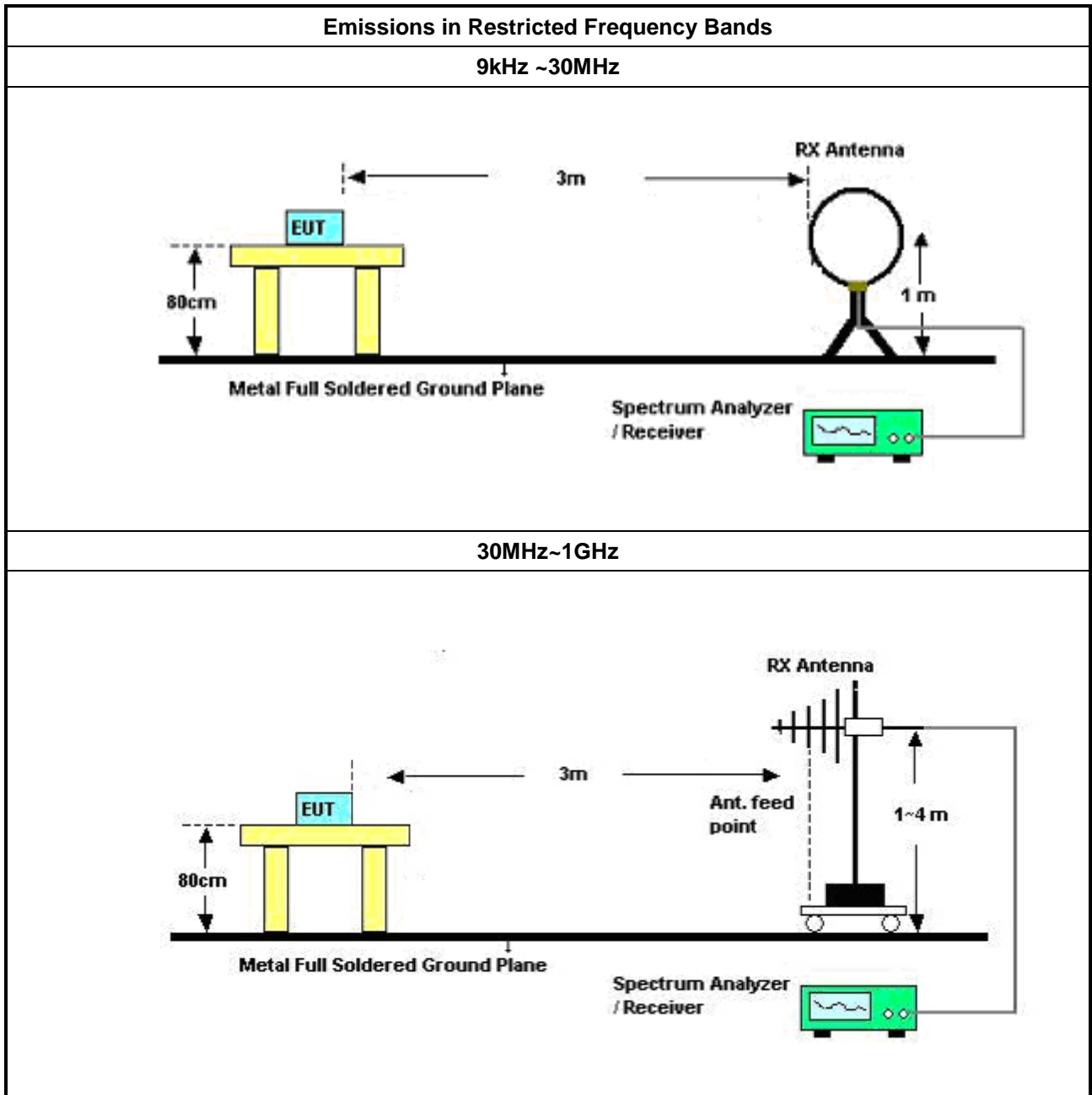
<b>Test Method</b>	
	<ul style="list-style-type: none"> <li>▪ The average emission levels shall be measured in [duty cycle <math>\geq</math> 98 or duty factor].</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest 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 <math>f &lt; 1</math> 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 <math>f \geq 1</math> 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>

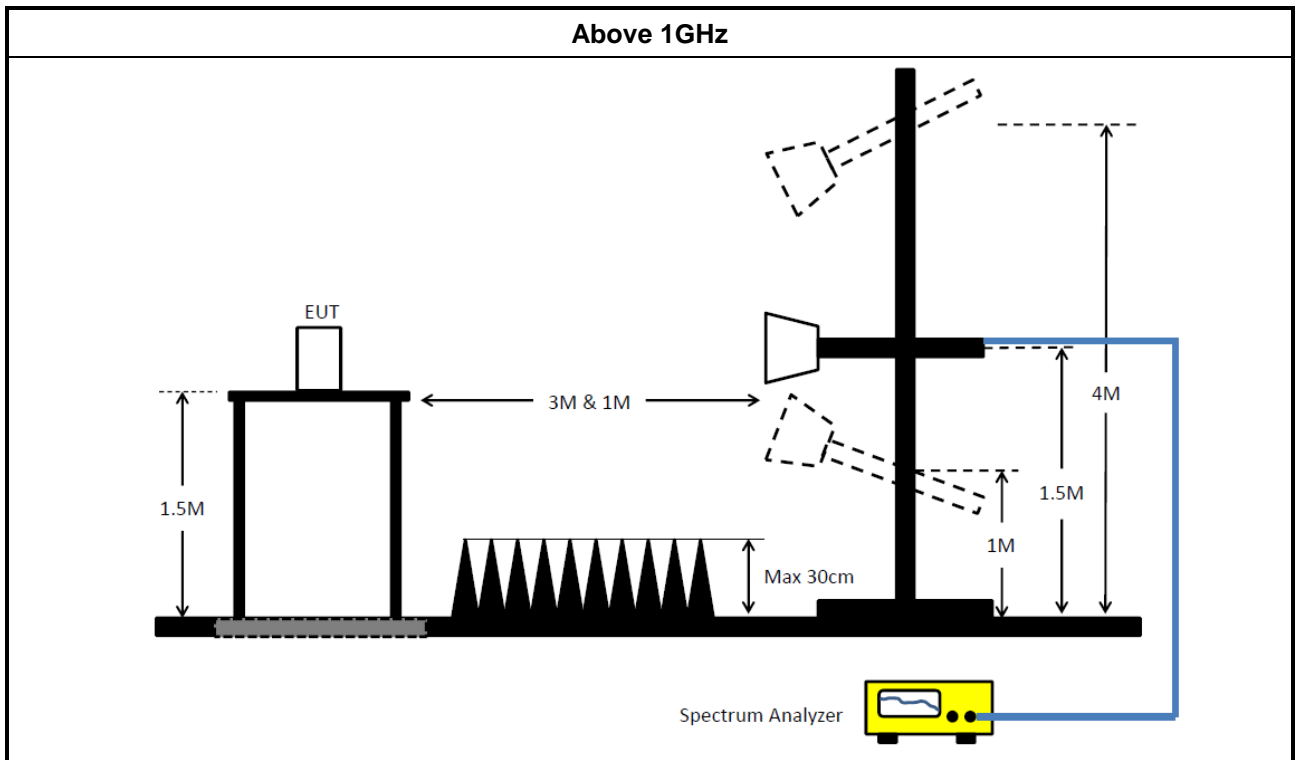
### 3.6.4 Measurement Results Calculation

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



## 4 Test Equipment and Calibration Data

### Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR	102051	9kHz ~ 3.6GHz	16/May/2023	15/May/2024
Two-Line V-Network	R&S	ENV 216	101295	9kHz ~ 30MHz	31/Jan/2023	30/Jan/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	18/Oct/2023	17/Oct/2024
Software	Sporton	SENSE-EMI	V5.11.3	-	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	101029	10Hz~40GHz	30/Oct/2023	29/Oct/2024
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	20/Oct/2023	19/Oct/2024
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	29/Mar/2023	28/Mar/2024
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	29/Mar/2023	28/Mar/2024
SENSE-15247_FS	Sporton	V5.11.15	N/A	N/A	01/Oct/2022	02/Nov/2025





Instrument for Radiated Test (03CH24-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	30MHz~1GHz 3m	17/Aug/2023	16/Aug/2024
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	1GHz~18GHz 3m	03/Aug/2023	02/Aug/2024
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	27/Dec/2023	26/Dec/2024
Signal Analyzer	ROHDE & SCHWARZ	FSV3044	101345	10Hz~44GHz	10/Aug/2023	09/Aug/2024
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	23/Mar/2023	22/Mar/2024
Bilog Antenna & 6dB Attenuator	TESEQ / Woken	CBL 6112D / 00800N1D01N-06	35376 / 02	30MHz~1GHz	17/Apr/2023	16/Apr/2024
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02744	1GHz~18GHz	17/Aug/2023	16/Aug/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	21/Aug/2023	20/Aug/2024
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB002	9kHz~1GHz	21/Jul/2023	20/Jul/2024
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB002	1GHz~40GHz	21/Jul/2023	20/Jul/2024
Pre-Amplifier	Agilent	8447D	2944A06292	30MHz~1GHz	26/Apr/2023	25/Apr/2024
Amplifier	EM	EM01G18G	060870	1GHz ~18GHz	10/Aug/2023	09/Aug/2024
Microwave Prempplier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	16/Mar/2023	15/Mar/2024
SENSE-15247-FS	Sporton	V5.11.15	NA	NA	NA	NA

Instrument for Radiated Test (Co-location)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	28/Jul/2023	27/Jul/2024
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	26/Oct/2023	25/Oct/2024
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz~18GHz	04/Oct/2023	03/Oct/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz ~ 40GHz	21/Aug/2023	20/Aug/2024
RF CABLE 5+8 m	HUBER+SUHNER	SUOFLEX 104	03CH03-cable-03	1GHz~40GHz	20/Feb/2024	19/Feb/2025
Microwave Preampplier	Agilent	8449B	3008A02326	1GHz~26.5GHz	26/Jul/2023	25/Jul/2024
Amplifier	EM	EM18G40GA	060874	18GHz ~ 40GHz	18/Aug/2023	17/Aug/2024
SENSE-EMI	Sporton	V5.11.6	N/A	N/A	N/A	N/A



**Summary**

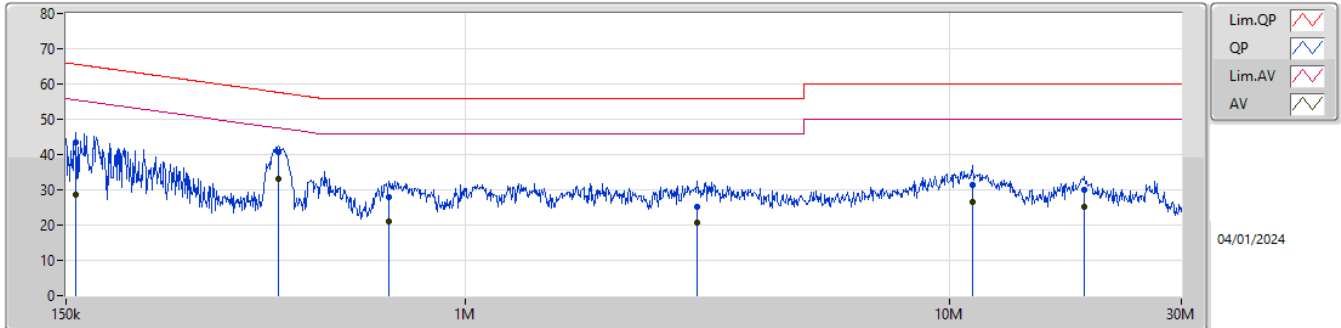
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	411.832k	32.97	47.61	-14.64	Line



Result

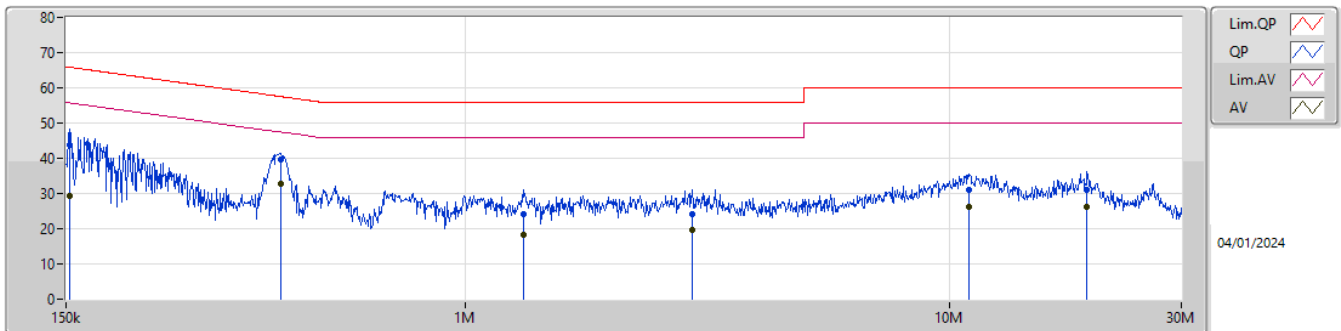
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	157.361k	43.47	65.60	-22.13	Line
Mode 1	Pass	AV	157.361k	28.48	55.60	-27.12	Line
Mode 1	Pass	QP	411.832k	40.83	57.61	-16.78	Line
Mode 1	Pass	AV	411.832k	32.97	47.61	-14.64	Line
Mode 1	Pass	QP	694.763k	27.91	56.00	-28.09	Line
Mode 1	Pass	AV	694.763k	21.03	46.00	-24.97	Line
Mode 1	Pass	QP	3.007M	25.34	56.00	-30.66	Line
Mode 1	Pass	AV	3.007M	20.72	46.00	-25.28	Line
Mode 1	Pass	QP	11.137M	31.27	60.00	-28.73	Line
Mode 1	Pass	AV	11.137M	26.60	50.00	-23.40	Line
Mode 1	Pass	QP	18.863M	30.15	60.00	-29.85	Line
Mode 1	Pass	AV	18.863M	25.20	50.00	-24.80	Line
Mode 1	Pass	QP	153.024k	43.84	65.83	-21.99	Neutral
Mode 1	Pass	AV	153.024k	29.44	55.83	-26.39	Neutral
Mode 1	Pass	QP	416.794k	39.74	57.51	-17.77	Neutral
Mode 1	Pass	AV	416.794k	32.72	47.51	-14.79	Neutral
Mode 1	Pass	QP	1.316M	24.07	56.00	-31.93	Neutral
Mode 1	Pass	AV	1.316M	18.13	46.00	-27.87	Neutral
Mode 1	Pass	QP	2.936M	24.05	56.00	-31.95	Neutral
Mode 1	Pass	AV	2.936M	19.78	46.00	-26.22	Neutral
Mode 1	Pass	QP	10.917M	30.97	60.00	-29.03	Neutral
Mode 1	Pass	AV	10.917M	26.16	50.00	-23.84	Neutral
Mode 1	Pass	QP	19.167M	31.04	60.00	-28.96	Neutral
Mode 1	Pass	AV	19.167M	26.14	50.00	-23.86	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	157.361k	43.47	65.60	-22.13	19.37	Line	-	24.10	9.59	0.03	9.75
AV	157.361k	28.48	55.60	-27.12	19.37	Line	-	9.11	9.59	0.03	9.75
QP	411.832k	40.83	57.61	-16.78	19.40	Line	-	21.43	9.60	0.04	9.76
AV	411.832k	32.97	47.61	-14.64	19.40	Line	-	13.57	9.60	0.04	9.76
QP	694.763k	27.91	56.00	-28.09	19.44	Line	-	8.47	9.61	0.05	9.78
AV	694.763k	21.03	46.00	-24.97	19.44	Line	-	1.59	9.61	0.05	9.78
QP	3.007M	25.34	56.00	-30.66	19.56	Line	-	5.78	9.66	0.11	9.79
AV	3.007M	20.72	46.00	-25.28	19.56	Line	-	1.16	9.66	0.11	9.79
QP	11.137M	31.27	60.00	-28.73	19.72	Line	-	11.55	9.72	0.20	9.80
AV	11.137M	26.60	50.00	-23.40	19.72	Line	-	6.88	9.72	0.20	9.80
QP	18.863M	30.15	60.00	-29.85	19.77	Line	-	10.38	9.68	0.26	9.83
AV	18.863M	25.20	50.00	-24.80	19.77	Line	-	5.43	9.68	0.26	9.83

## 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	153.024k	43.84	65.83	-21.99	19.38	Neutral	-	24.46	9.60	0.03	9.75
AV	153.024k	29.44	55.83	-26.39	19.38	Neutral	-	10.06	9.60	0.03	9.75
QP	416.794k	39.74	57.51	-17.77	19.40	Neutral	-	20.34	9.60	0.04	9.76
AV	416.794k	32.72	47.51	-14.79	19.40	Neutral	-	13.32	9.60	0.04	9.76
QP	1.316M	24.07	56.00	-31.93	19.47	Neutral	-	4.60	9.61	0.06	9.80
AV	1.316M	18.13	46.00	-27.87	19.47	Neutral	-	-1.34	9.61	0.06	9.80
QP	2.936M	24.05	56.00	-31.95	19.53	Neutral	-	4.52	9.63	0.11	9.79
AV	2.936M	19.78	46.00	-26.22	19.53	Neutral	-	0.25	9.63	0.11	9.79
QP	10.917M	30.97	60.00	-29.03	19.69	Neutral	-	11.28	9.70	0.19	9.80
AV	10.917M	26.16	50.00	-23.84	19.69	Neutral	-	6.47	9.70	0.19	9.80
QP	19.167M	31.04	60.00	-28.96	19.82	Neutral	-	11.22	9.72	0.27	9.83
AV	19.167M	26.14	50.00	-23.86	19.82	Neutral	-	6.32	9.72	0.27	9.83



**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)	760k	1.028M	1M03F1D	516.25k	1.021M
BT-LE(2Mbps)	1.15M	2.049M	2M05F1D	547.5k	2.031M

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	760k	1.027M
2440MHz	Pass	500k	652.5k	1.028M
2480MHz	Pass	500k	516.25k	1.021M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	547.5k	2.046M
2440MHz	Pass	500k	1.15M	2.031M
2480MHz	Pass	500k	767.5k	2.049M

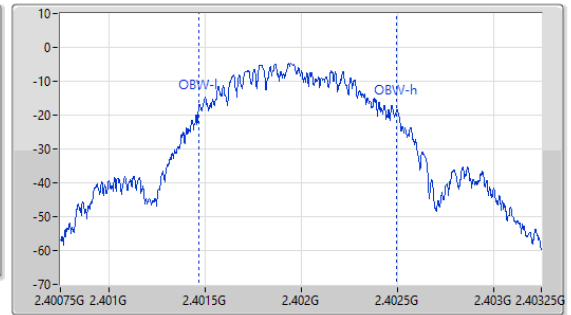
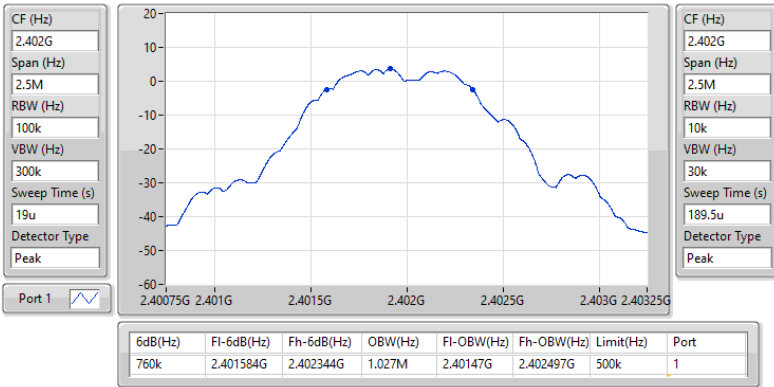
Port X-N dB = Port X 6dB down bandwidth;  
Port X-OBW = Port X 99% occupied bandwidth

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

EBW-DTS

2402MHz

05/12/2023

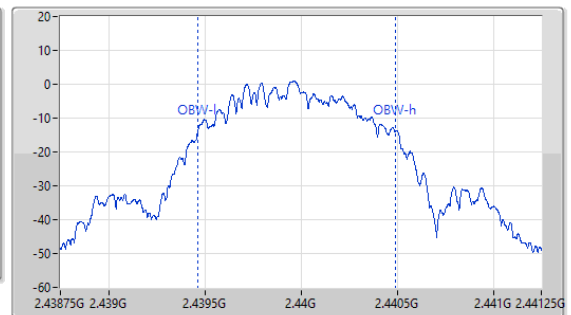
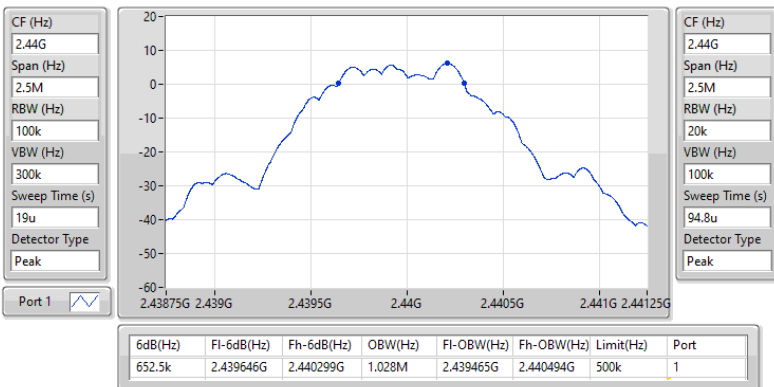


2.4-2.4835GHz\_BT-LE(1Mbps)

EBW-DTS

2440MHz

05/12/2023

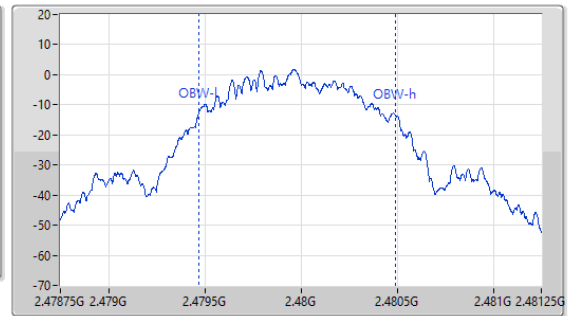
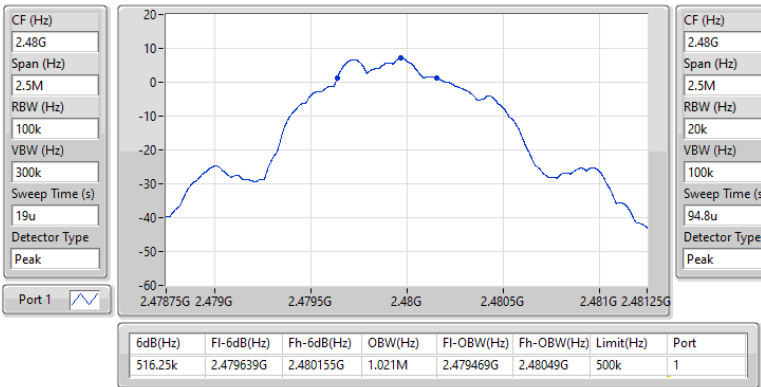


2.4-2.4835GHz\_BT-LE(1Mbps)

EBW-DTS

2480MHz

05/12/2023

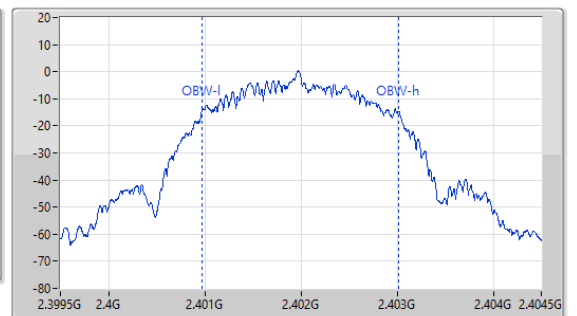
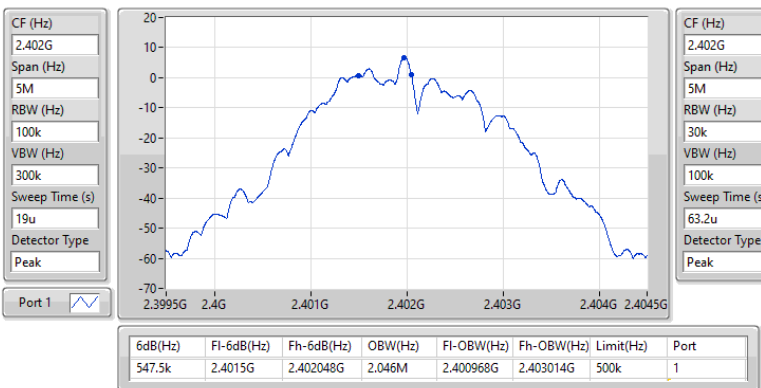


2.4-2.4835GHz\_BT-LE(2Mbps)

EBW-DTS

2402MHz

05/12/2023



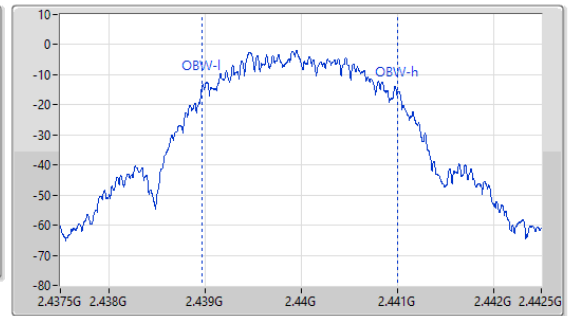
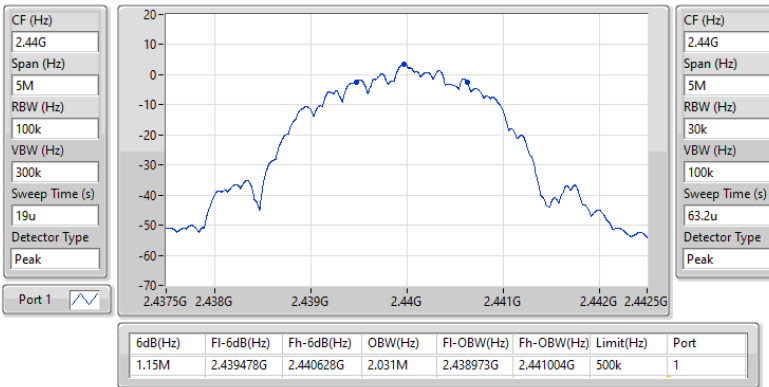


2.4-2.4835GHz\_BT-LE(2Mbps)

EBW-DTS

2440MHz

05/12/2023

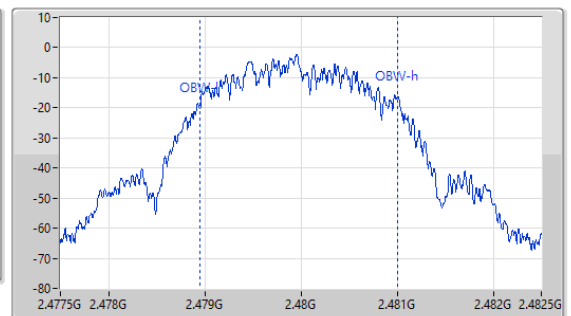
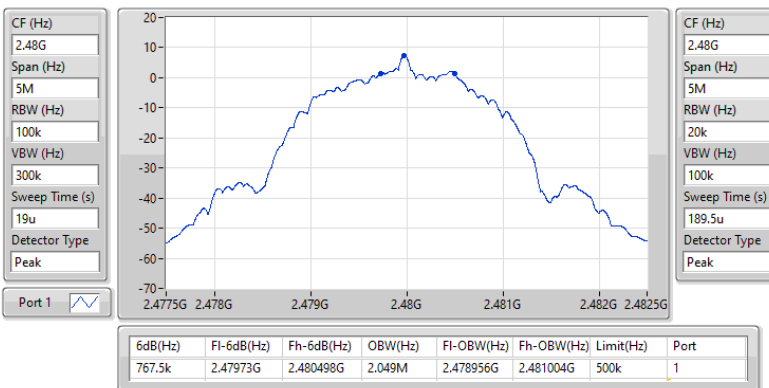


2.4-2.4835GHz\_BT-LE(2Mbps)

EBW-DTS

2480MHz

05/12/2023





**Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	7.48	0.00560
BT-LE(2Mbps)	7.18	0.00522



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.72	5.52	30.00
2440MHz	Pass	1.72	6.80	30.00
2480MHz	Pass	1.72	7.48	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	1.72	6.45	30.00
2440MHz	Pass	1.72	6.51	30.00
2480MHz	Pass	1.72	7.18	30.00

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



**Summary**

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-7.17
BT-LE(2Mbps)	-10.84

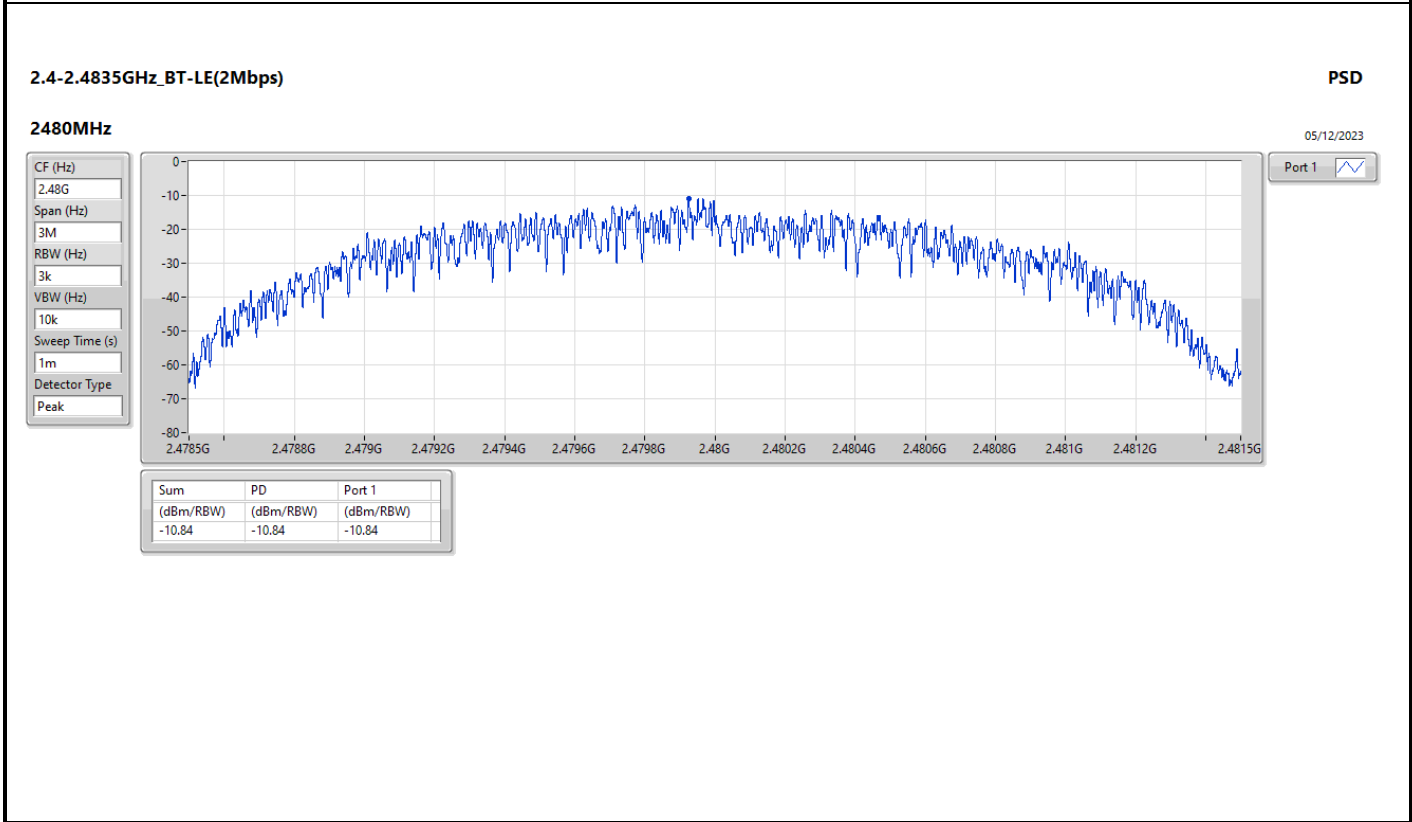
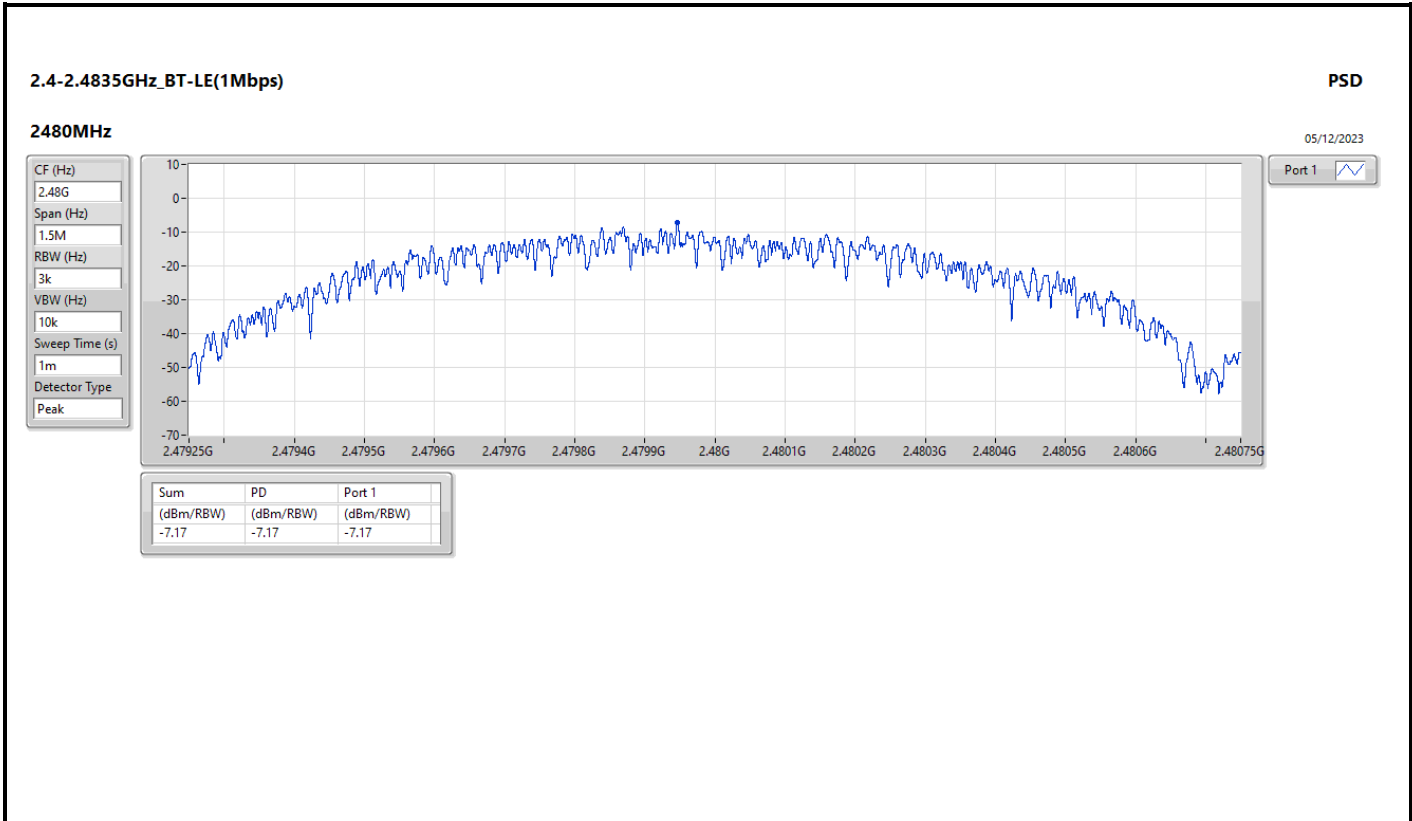
RBW = 3kHz;



Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.72	-9.16	8.00
2440MHz	Pass	1.72	-7.81	8.00
2480MHz	Pass	1.72	-7.17	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	1.72	-11.43	8.00
2440MHz	Pass	1.72	-11.43	8.00
2480MHz	Pass	1.72	-10.84	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;





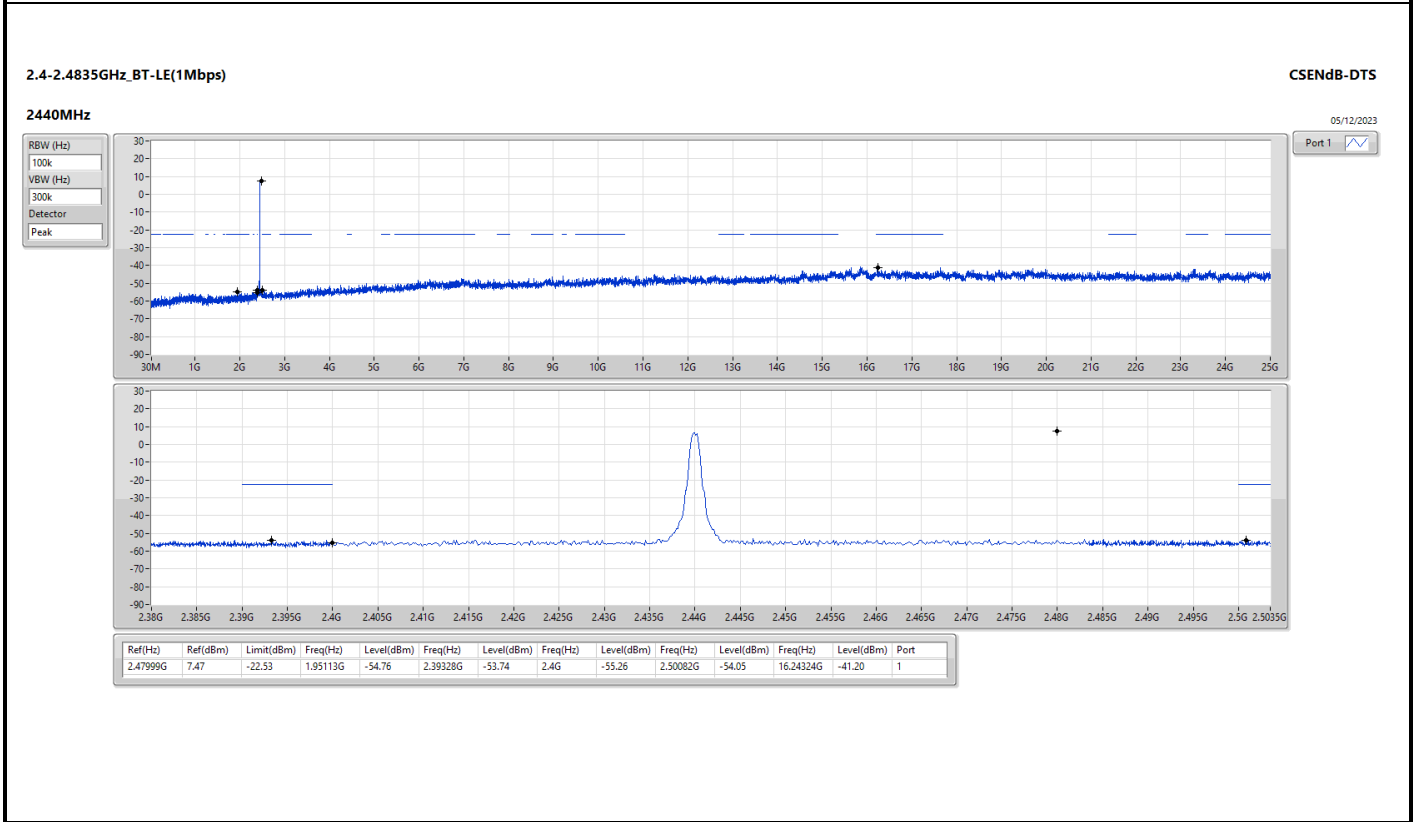
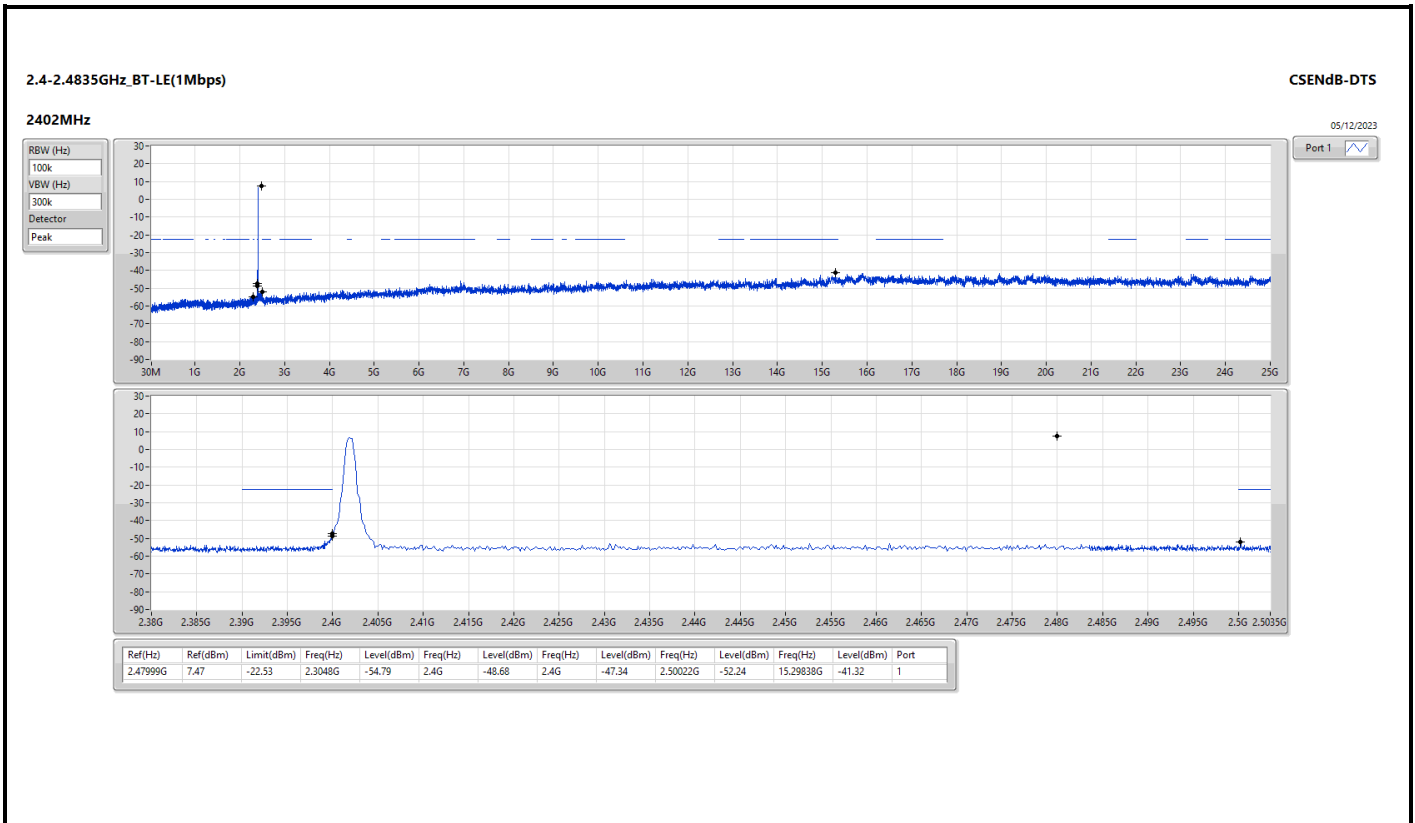
Summary

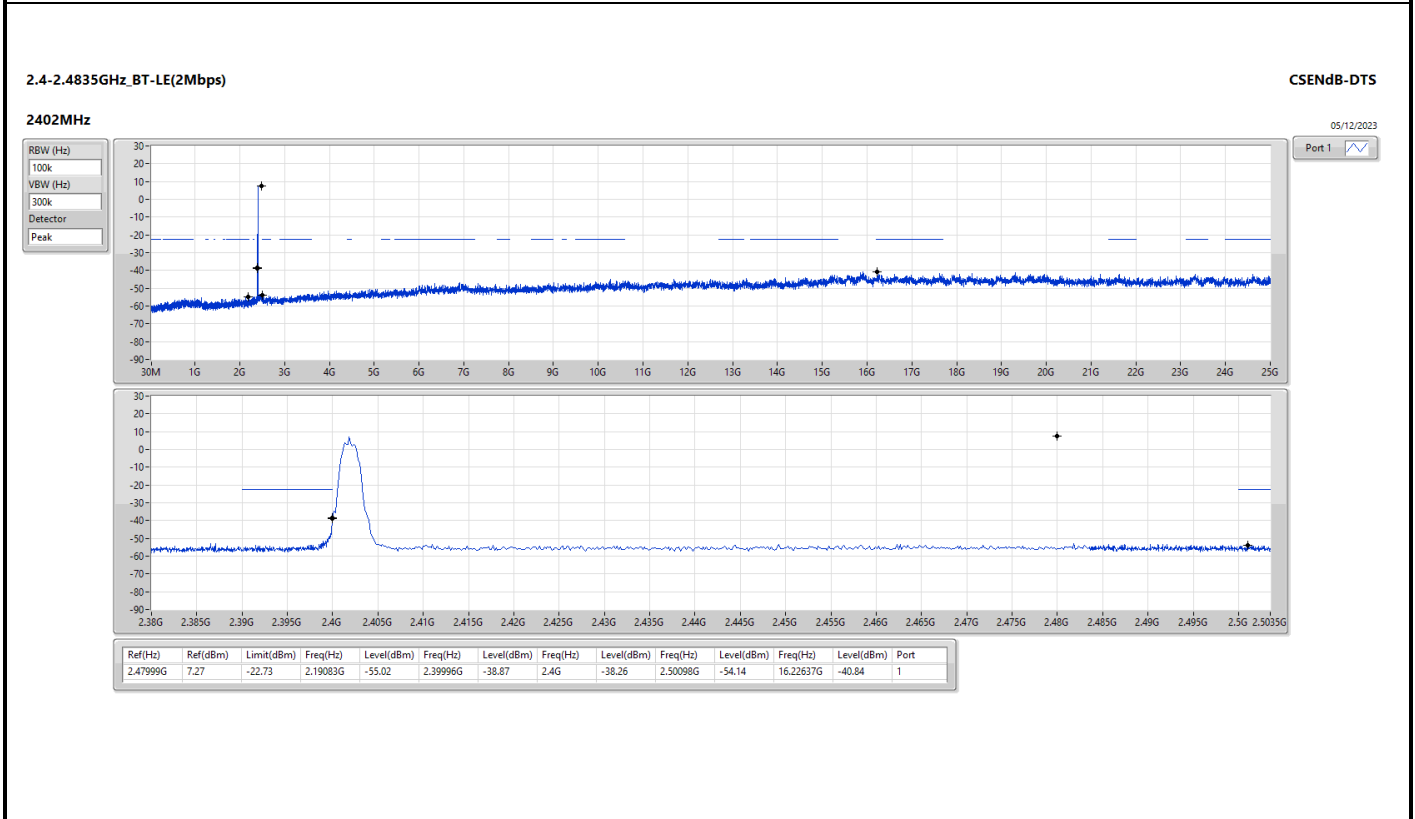
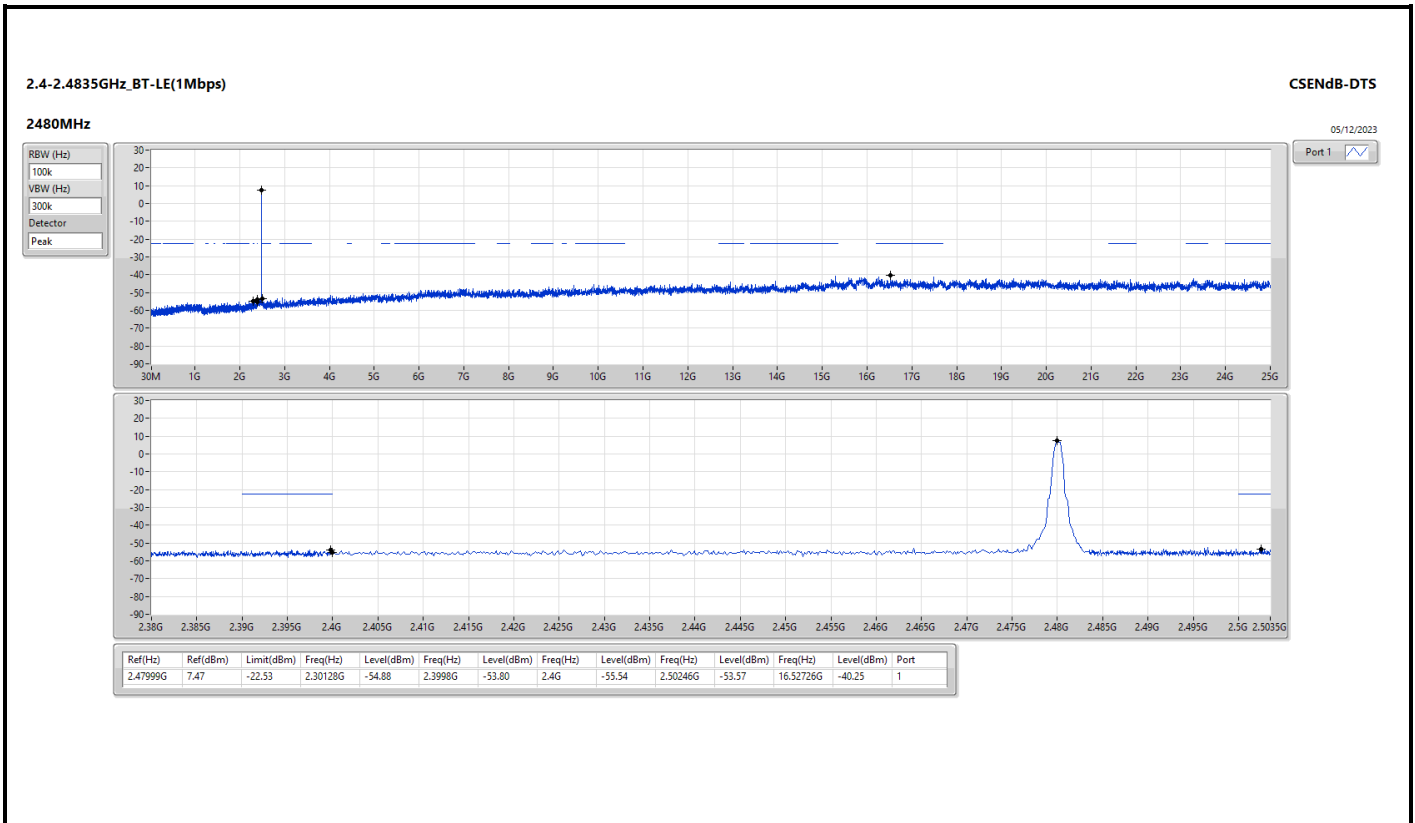
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.47999G	7.47	-22.53	2.3048G	-54.79	2.4G	-48.68	2.4G	-47.34	2.50022G	-52.24	15.29838G	-41.32	1
BT-LE(2Mbps)	Pass	2.47999G	7.27	-22.73	2.19083G	-55.02	2.39996G	-38.87	2.4G	-38.26	2.50098G	-54.14	16.22637G	-40.84	1

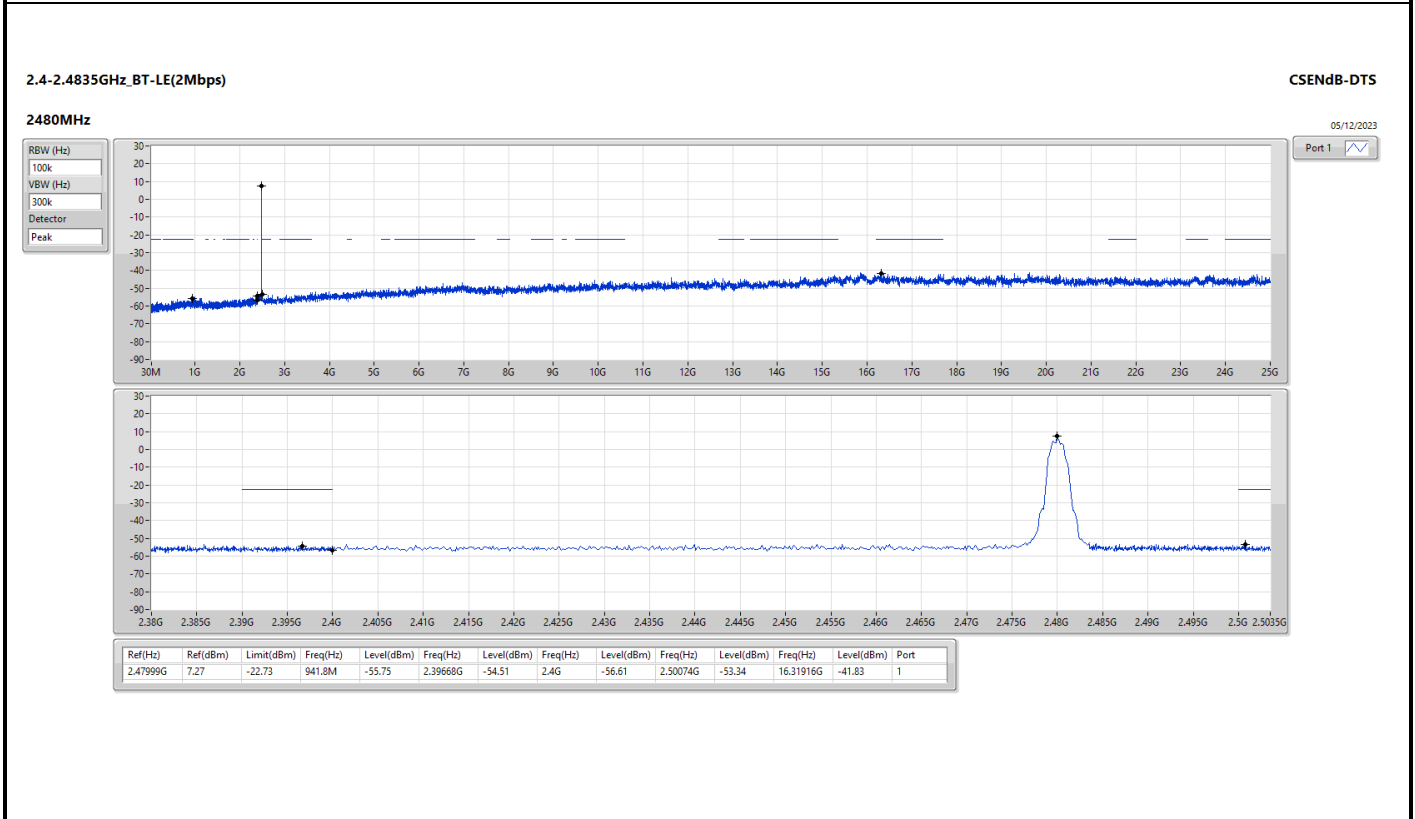
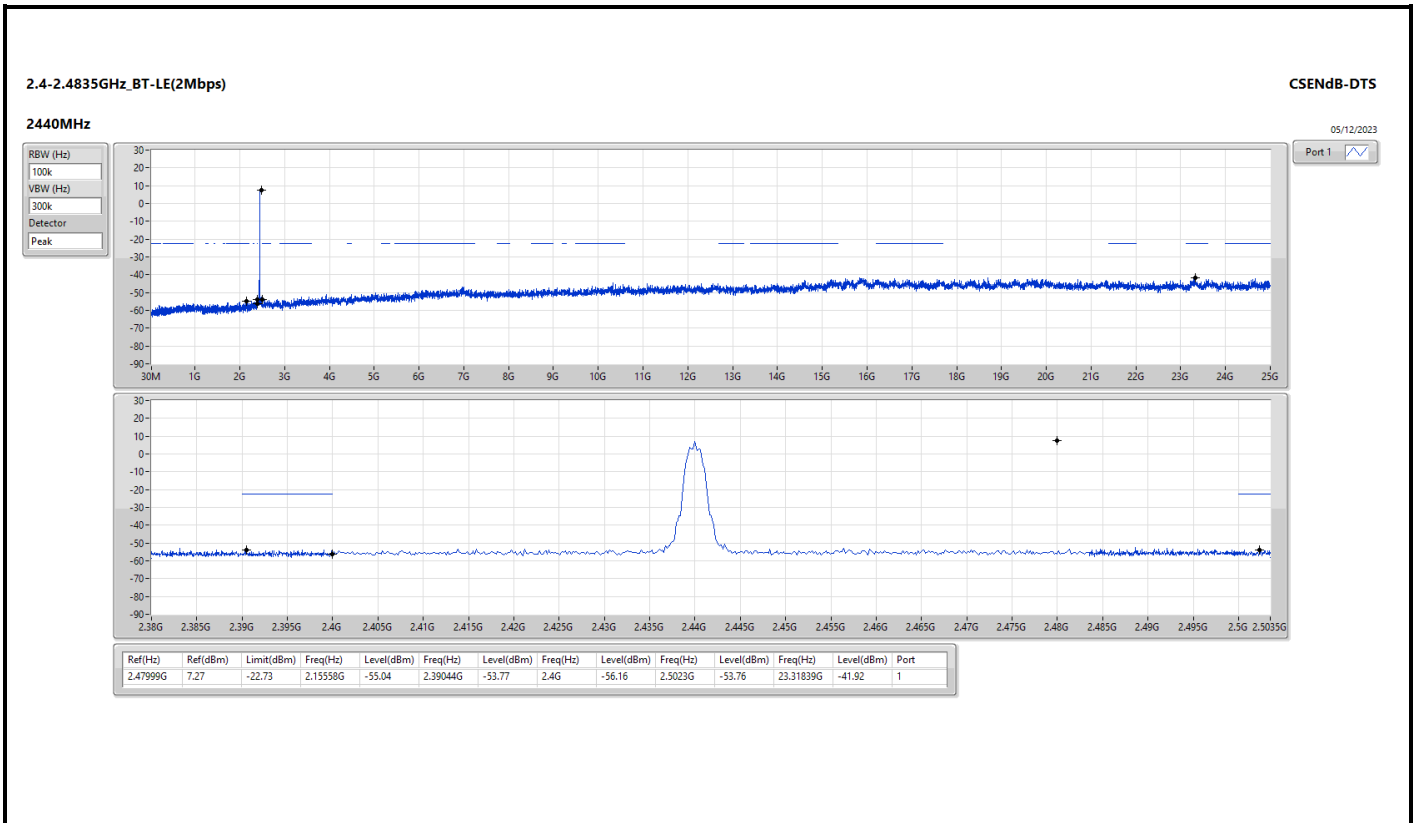
**Result**

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	2.47999G	7.47	-22.53	2.3048G	-54.79	2.4G	-48.68	2.4G	-47.34	2.50022G	-52.24	15.29838G	-41.32	1
2440MHz	Pass	2.47999G	7.47	-22.53	1.95113G	-54.76	2.39328G	-53.74	2.4G	-55.26	2.50082G	-54.05	16.24324G	-41.20	1
2480MHz	Pass	2.47999G	7.47	-22.53	2.30128G	-54.88	2.3998G	-53.80	2.4G	-55.54	2.50246G	-53.57	16.52726G	-40.25	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.47999G	7.27	-22.73	2.19083G	-55.02	2.39996G	-38.87	2.4G	-38.26	2.50098G	-54.14	16.22637G	-40.84	1
2440MHz	Pass	2.47999G	7.27	-22.73	2.15558G	-55.04	2.39044G	-53.77	2.4G	-56.16	2.5023G	-53.76	23.31839G	-41.92	1
2480MHz	Pass	2.47999G	7.27	-22.73	941.8M	-55.75	2.39668G	-54.51	2.4G	-56.61	2.50074G	-53.34	16.31916G	-41.83	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	31.94M	30.51	40.00	-9.49	3	Vertical	360	1.00

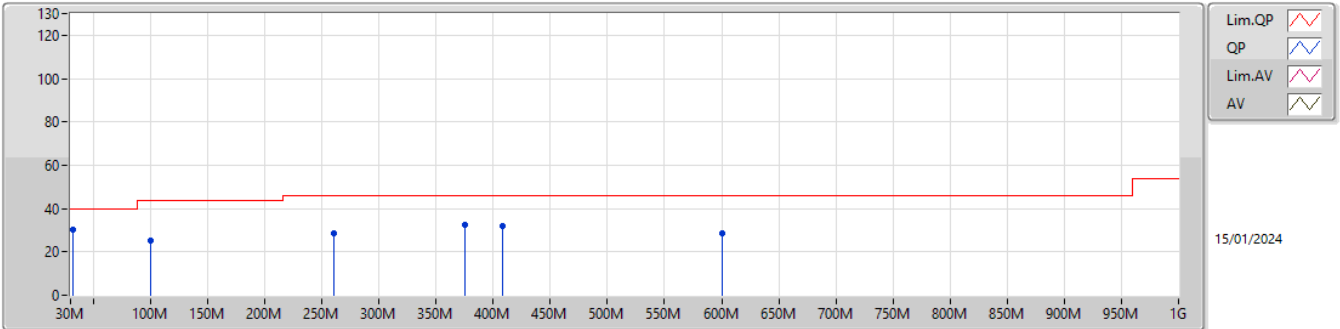


Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	PK	31.94M	30.51	40.00	-9.49	3	Vertical	360	1.00
2402MHz	Pass	PK	99.84M	25.35	43.50	-18.15	3	Vertical	360	1.00
2402MHz	Pass	PK	260.86M	28.82	46.00	-17.18	3	Vertical	360	1.00
2402MHz	Pass	PK	375.32M	32.54	46.00	-13.46	3	Vertical	360	1.00
2402MHz	Pass	PK	408.3M	31.87	46.00	-14.13	3	Vertical	360	1.00
2402MHz	Pass	PK	600.36M	28.73	46.00	-17.27	3	Vertical	360	1.00
2402MHz	Pass	PK	30M	23.99	40.00	-16.01	3	Horizontal	0	1.00
2402MHz	Pass	PK	127M	26.41	43.50	-17.09	3	Horizontal	0	1.00
2402MHz	Pass	PK	260.86M	32.03	46.00	-13.97	3	Horizontal	0	1.00
2402MHz	Pass	PK	375.32M	33.64	46.00	-12.36	3	Horizontal	0	1.00
2402MHz	Pass	PK	408.3M	30.92	46.00	-15.08	3	Horizontal	0	1.00
2402MHz	Pass	PK	600.36M	27.64	46.00	-18.36	3	Horizontal	0	1.00

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

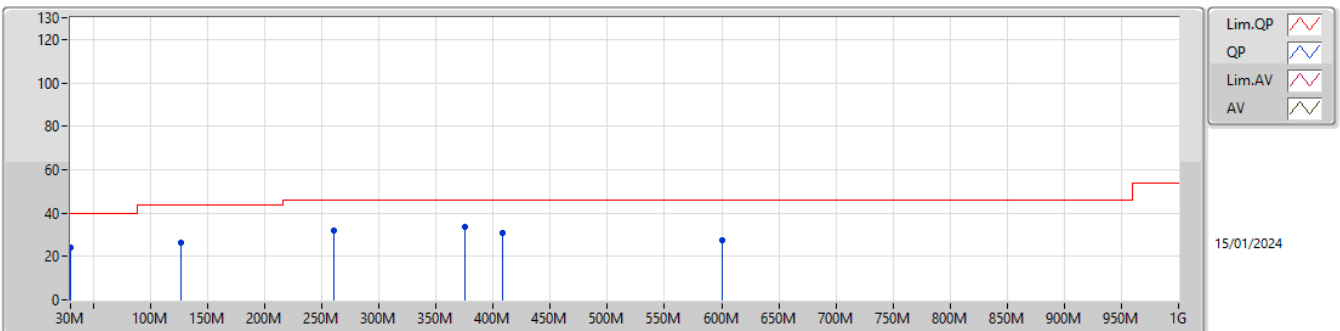
2402MHz\_PoE



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	31.94M	30.51	40.00	-9.49	-4.38	3	Vertical	360	1.00	34.89	22.61	0.43	27.42
PK	99.84M	25.35	43.50	-18.15	-10.77	3	Vertical	360	1.00	36.12	15.79	0.75	27.31
PK	260.86M	28.82	46.00	-17.18	-6.84	3	Vertical	360	1.00	35.66	18.69	1.19	26.72
PK	375.32M	32.54	46.00	-13.46	-5.90	3	Vertical	360	1.00	38.44	19.96	1.43	27.29
PK	408.3M	31.87	46.00	-14.13	-4.80	3	Vertical	360	1.00	36.67	21.30	1.49	27.59
PK	600.36M	28.73	46.00	-17.27	-2.81	3	Vertical	360	1.00	31.54	23.75	1.80	28.36

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

2402MHz\_PoE



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	23.99	40.00	-16.01	-3.34	3	Horizontal	0	1.00	27.33	23.66	0.42	27.42
PK	127M	26.41	43.50	-17.09	-9.29	3	Horizontal	0	1.00	35.70	17.09	0.84	27.22
PK	260.86M	32.03	46.00	-13.97	-6.84	3	Horizontal	0	1.00	38.87	18.69	1.19	26.72
PK	375.32M	33.64	46.00	-12.36	-5.90	3	Horizontal	0	1.00	39.54	19.96	1.43	27.29
PK	408.3M	30.92	46.00	-15.08	-4.80	3	Horizontal	0	1.00	35.72	21.30	1.49	27.59
PK	600.36M	27.64	46.00	-18.36	-2.81	3	Horizontal	0	1.00	30.45	23.75	1.80	28.36



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(1Mbps)	Pass	AV	2.4838G	45.24	54.00	-8.76	3	Horizontal	40	3.00
BT-LE(2Mbps)	Pass	AV	2.4904G	46.77	54.00	-7.23	3	Horizontal	50	2.35



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3688G	44.49	54.00	-9.51	3	Vertical	86	1.00
2402MHz	Pass	AV	2.402G	95.19	Inf	-Inf	3	Vertical	86	1.00
2402MHz	Pass	PK	2.3828G	57.01	74.00	-16.99	3	Vertical	86	1.00
2402MHz	Pass	PK	2.4022G	96.31	Inf	-Inf	3	Vertical	86	1.00
2402MHz	Pass	AV	2.3858G	44.51	54.00	-9.49	3	Horizontal	65	2.77
2402MHz	Pass	AV	2.402G	104.79	Inf	-Inf	3	Horizontal	65	2.77
2402MHz	Pass	PK	2.387G	57.41	74.00	-16.59	3	Horizontal	65	2.77
2402MHz	Pass	PK	2.402G	105.92	Inf	-Inf	3	Horizontal	65	2.77
2402MHz	Pass	AV	4.80388G	32.96	54.00	-21.04	3	Vertical	50	2.40
2402MHz	Pass	PK	4.80358G	43.35	74.00	-30.65	3	Vertical	50	2.40
2402MHz	Pass	AV	4.804G	34.70	54.00	-19.30	3	Horizontal	106	1.00
2402MHz	Pass	PK	4.80438G	44.10	74.00	-29.90	3	Horizontal	106	1.00
2440MHz	Pass	AV	2.3696G	44.55	54.00	-9.45	3	Vertical	71	1.44
2440MHz	Pass	AV	2.44G	96.74	Inf	-Inf	3	Vertical	71	1.44
2440MHz	Pass	AV	2.4964G	45.08	54.00	-8.92	3	Vertical	71	1.44
2440MHz	Pass	PK	2.3828G	57.55	74.00	-16.45	3	Vertical	71	1.44
2440MHz	Pass	PK	2.4396G	97.79	Inf	-Inf	3	Vertical	71	1.44
2440MHz	Pass	PK	2.4835G	58.04	74.00	-15.96	3	Vertical	71	1.44
2440MHz	Pass	AV	2.3856G	44.55	54.00	-9.45	3	Horizontal	49	2.36
2440MHz	Pass	AV	2.44G	104.92	Inf	-Inf	3	Horizontal	49	2.36
2440MHz	Pass	AV	2.49G	44.90	54.00	-9.10	3	Horizontal	49	2.36
2440MHz	Pass	PK	2.3828G	57.35	74.00	-16.65	3	Horizontal	49	2.36
2440MHz	Pass	PK	2.44G	105.98	Inf	-Inf	3	Horizontal	49	2.36
2440MHz	Pass	PK	2.498G	57.34	74.00	-16.66	3	Horizontal	49	2.36
2440MHz	Pass	AV	4.87978G	32.76	54.00	-21.24	3	Vertical	43	2.50
2440MHz	Pass	AV	7.31928G	35.75	54.00	-18.25	3	Vertical	227	2.25
2440MHz	Pass	PK	4.88076G	43.96	74.00	-30.04	3	Vertical	43	2.50
2440MHz	Pass	PK	7.31408G	47.81	74.00	-26.19	3	Vertical	227	2.25
2440MHz	Pass	AV	4.87959G	35.36	54.00	-18.64	3	Horizontal	99	1.02
2440MHz	Pass	AV	7.31364G	35.72	54.00	-18.28	3	Horizontal	306	1.87
2440MHz	Pass	PK	4.87985G	46.03	74.00	-27.97	3	Horizontal	99	1.02
2440MHz	Pass	PK	7.31452G	47.87	74.00	-26.13	3	Horizontal	306	1.87
2480MHz	Pass	AV	2.48G	97.70	Inf	-Inf	3	Vertical	35	1.47
2480MHz	Pass	AV	2.49G	45.03	54.00	-8.97	3	Vertical	35	1.47
2480MHz	Pass	PK	2.4798G	98.80	Inf	-Inf	3	Vertical	35	1.47
2480MHz	Pass	PK	2.4932G	57.45	74.00	-16.55	3	Vertical	35	1.47
2480MHz	Pass	AV	2.48G	105.06	Inf	-Inf	3	Horizontal	40	3.00
2480MHz	Pass	AV	2.4838G	45.24	54.00	-8.76	3	Horizontal	40	3.00
2480MHz	Pass	PK	2.4798G	106.16	Inf	-Inf	3	Horizontal	40	3.00
2480MHz	Pass	PK	2.484G	57.79	74.00	-16.21	3	Horizontal	40	3.00
2480MHz	Pass	AV	4.95977G	35.26	54.00	-18.74	3	Vertical	23	2.27
2480MHz	Pass	AV	7.43284G	34.84	54.00	-19.16	3	Vertical	229	2.00
2480MHz	Pass	PK	4.96015G	45.12	74.00	-28.88	3	Vertical	23	2.27
2480MHz	Pass	PK	7.4472G	47.52	74.00	-26.48	3	Vertical	229	2.00
2480MHz	Pass	AV	4.95997G	37.14	54.00	-16.86	3	Horizontal	89	2.24
2480MHz	Pass	AV	7.4396G	34.85	54.00	-19.15	3	Horizontal	136	1.50
2480MHz	Pass	PK	4.96012G	46.66	74.00	-27.34	3	Horizontal	89	2.24
2480MHz	Pass	PK	7.43204G	47.32	74.00	-26.68	3	Horizontal	136	1.50
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	PK	2.3828G	56.83	74.00	-17.17	3	Vertical	196	1.50
2402MHz	Pass	AV	2.3866G	46.32	54.00	-7.68	3	Vertical	196	1.50
2402MHz	Pass	PK	2.4024G	96.04	Inf	-Inf	3	Vertical	196	1.50
2402MHz	Pass	AV	2.402G	93.43	Inf	-Inf	3	Vertical	196	1.50
2402MHz	Pass	PK	2.362G	57.09	74.00	-16.91	3	Horizontal	65	2.76
2402MHz	Pass	AV	2.365G	46.58	54.00	-7.42	3	Horizontal	65	2.76
2402MHz	Pass	PK	2.402G	105.78	Inf	-Inf	3	Horizontal	65	2.76
2402MHz	Pass	AV	2.402G	103.18	Inf	-Inf	3	Horizontal	65	2.76
2402MHz	Pass	AV	4.80299G	33.51	54.00	-20.49	3	Vertical	48	2.43
2402MHz	Pass	PK	4.80511G	43.63	74.00	-30.37	3	Vertical	48	2.43
2402MHz	Pass	AV	4.803G	35.46	54.00	-18.54	3	Horizontal	110	1.00

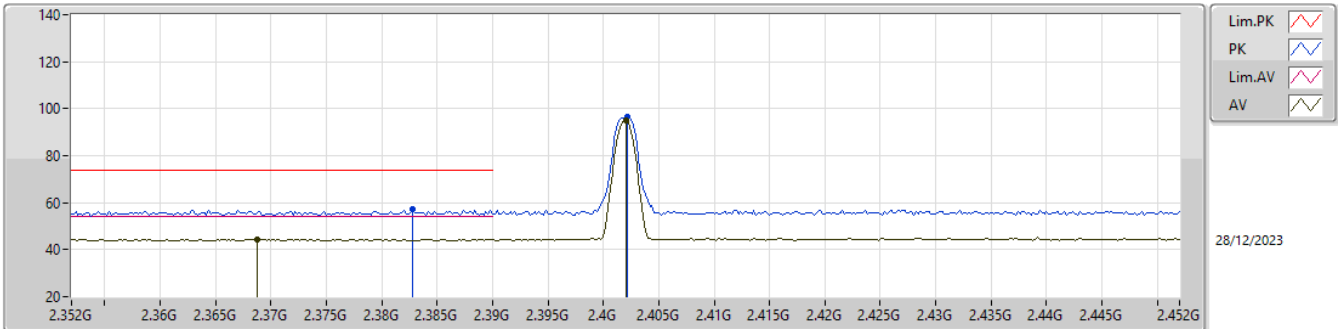




Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2402MHz	Pass	PK	4.80501G	44.53	74.00	-29.47	3	Horizontal	110	1.00
2440MHz	Pass	AV	2.3484G	46.13	54.00	-7.87	3	Vertical	73	1.46
2440MHz	Pass	AV	2.44G	94.93	Inf	-Inf	3	Vertical	73	1.46
2440MHz	Pass	AV	2.4868G	46.67	54.00	-7.33	3	Vertical	73	1.46
2440MHz	Pass	PK	2.362G	56.50	74.00	-17.50	3	Vertical	73	1.46
2440MHz	Pass	PK	2.4396G	97.41	Inf	-Inf	3	Vertical	73	1.46
2440MHz	Pass	PK	2.4904G	56.93	74.00	-17.07	3	Vertical	73	1.46
2440MHz	Pass	AV	2.372G	46.04	54.00	-7.96	3	Horizontal	50	2.35
2440MHz	Pass	AV	2.44G	103.33	Inf	-Inf	3	Horizontal	50	2.35
2440MHz	Pass	AV	2.4904G	46.77	54.00	-7.23	3	Horizontal	50	2.35
2440MHz	Pass	PK	2.34G	57.04	74.00	-16.96	3	Horizontal	50	2.35
2440MHz	Pass	PK	2.44G	105.79	Inf	-Inf	3	Horizontal	50	2.35
2440MHz	Pass	PK	2.4844G	58.11	74.00	-15.89	3	Horizontal	50	2.35
2440MHz	Pass	AV	4.879G	33.17	54.00	-20.83	3	Vertical	37	2.35
2440MHz	Pass	AV	7.3212G	36.95	54.00	-17.05	3	Vertical	179	2.03
2440MHz	Pass	PK	4.88108G	43.37	74.00	-30.63	3	Vertical	37	2.35
2440MHz	Pass	PK	7.32152G	47.94	74.00	-26.06	3	Vertical	179	2.03
2440MHz	Pass	AV	4.87899G	35.33	54.00	-18.67	3	Horizontal	100	1.00
2440MHz	Pass	AV	7.31824G	37.06	54.00	-16.94	3	Horizontal	289	1.78
2440MHz	Pass	PK	4.88001G	44.26	74.00	-29.74	3	Horizontal	100	1.00
2440MHz	Pass	PK	7.32071G	47.97	74.00	-26.03	3	Horizontal	289	1.78
2480MHz	Pass	AV	2.4798G	96.09	Inf	-Inf	3	Vertical	36	1.47
2480MHz	Pass	AV	2.4996G	46.67	54.00	-7.33	3	Vertical	36	1.47
2480MHz	Pass	PK	2.48G	98.63	Inf	-Inf	3	Vertical	36	1.47
2480MHz	Pass	PK	2.4926G	57.28	74.00	-16.72	3	Vertical	36	1.47
2480MHz	Pass	AV	2.4798G	103.45	Inf	-Inf	3	Horizontal	39	3.00
2480MHz	Pass	AV	2.4994G	46.55	54.00	-7.45	3	Horizontal	39	3.00
2480MHz	Pass	PK	2.48G	105.99	Inf	-Inf	3	Horizontal	39	3.00
2480MHz	Pass	PK	2.4835G	59.58	74.00	-14.42	3	Horizontal	39	3.00
2480MHz	Pass	AV	4.96085G	35.71	54.00	-18.29	3	Vertical	23	2.27
2480MHz	Pass	AV	7.44198G	36.28	54.00	-17.72	3	Vertical	65	1.78
2480MHz	Pass	PK	4.95992G	44.94	74.00	-29.06	3	Vertical	23	2.27
2480MHz	Pass	PK	7.43822G	47.46	74.00	-26.54	3	Vertical	65	1.78
2480MHz	Pass	AV	4.95898G	36.75	54.00	-17.25	3	Horizontal	86	2.25
2480MHz	Pass	AV	7.44217G	36.25	54.00	-17.75	3	Horizontal	317	2.51
2480MHz	Pass	PK	4.95907G	45.72	74.00	-28.28	3	Horizontal	86	2.25
2480MHz	Pass	PK	7.43989G	47.05	74.00	-26.95	3	Horizontal	317	2.51

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

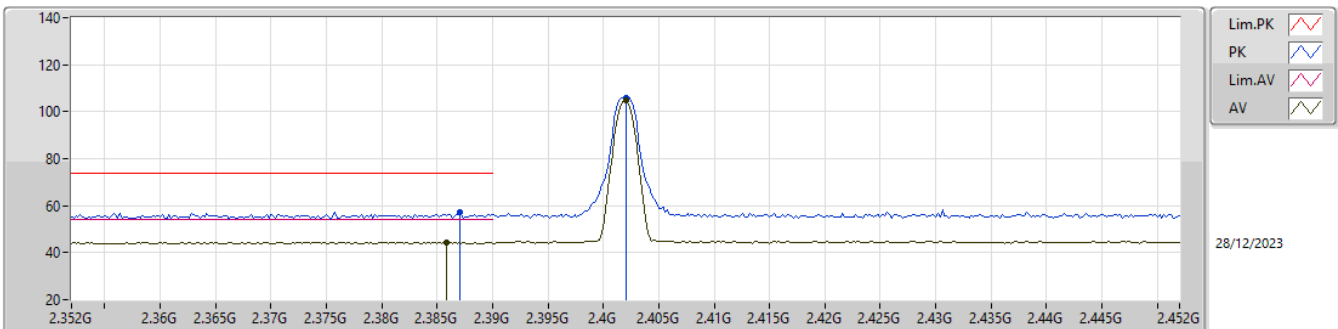
2402MHz\_TX



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	2.3688G	44.49	54.00	-9.51	31.11	3	Vertical	86	1.00	13.38	27.49	3.62	-
AV	2.402G	95.19	Inf	-Inf	31.34	3	Vertical	86	1.00	63.85	27.70	3.64	-
PK	2.3828G	57.01	74.00	-16.99	31.16	3	Vertical	86	1.00	25.85	27.53	3.63	-
PK	2.4022G	96.31	Inf	-Inf	31.34	3	Vertical	86	1.00	64.97	27.70	3.64	-

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

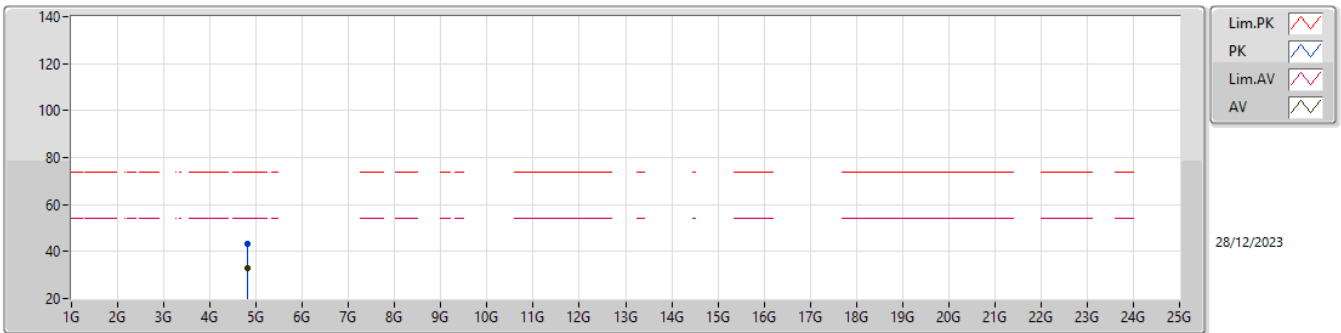
2402MHz\_TX



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	2.3858G	44.51	54.00	-9.49	31.19	3	Horizontal	65	2.77	13.32	27.56	3.63	-
AV	2.402G	104.79	Inf	-Inf	31.34	3	Horizontal	65	2.77	73.45	27.70	3.64	-
PK	2.387G	57.41	74.00	-16.59	31.20	3	Horizontal	65	2.77	26.21	27.57	3.63	-
PK	2.402G	105.92	Inf	-Inf	31.34	3	Horizontal	65	2.77	74.58	27.70	3.64	-

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

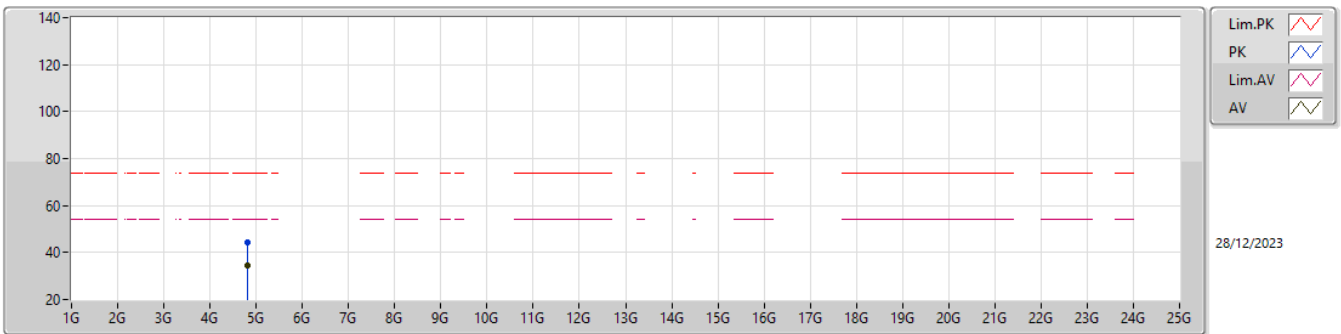
2402MHz\_TX



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	4.80388G	32.96	54.00	-21.04	0.39	3	Vertical	50	2.40	32.57	32.52	5.29	37.42
PK	4.80358G	43.35	74.00	-30.65	0.39	3	Vertical	50	2.40	42.96	32.52	5.29	37.42

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

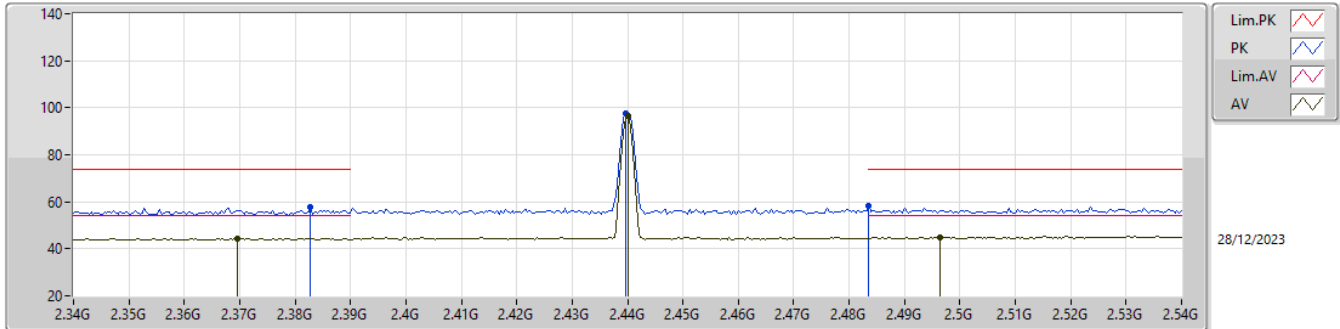
2402MHz\_TX



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	4.804G	34.70	54.00	-19.30	0.39	3	Horizontal	106	1.00	34.31	32.52	5.29	37.42
PK	4.80438G	44.10	74.00	-29.90	0.40	3	Horizontal	106	1.00	43.70	32.53	5.29	37.42

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

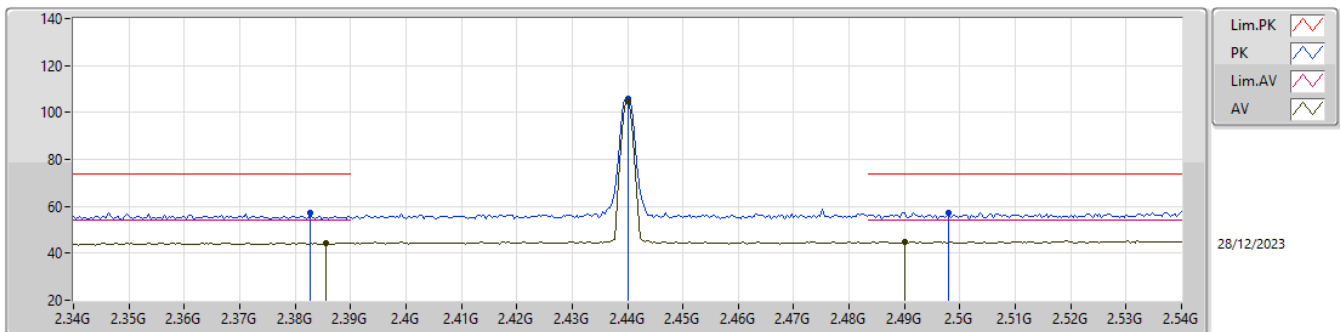
2440MHz\_TX



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	2.3696G	44.55	54.00	-9.45	31.12	3	Vertical	71	1.44	13.43	27.50	3.62	-
AV	2.44G	96.74	Inf	-Inf	31.37	3	Vertical	71	1.44	65.37	27.70	3.67	-
AV	2.4964G	45.08	54.00	-8.92	31.52	3	Vertical	71	1.44	13.56	27.80	3.72	-
PK	2.3828G	57.55	74.00	-16.45	31.16	3	Vertical	71	1.44	26.39	27.53	3.63	-
PK	2.4396G	97.79	Inf	-Inf	31.37	3	Vertical	71	1.44	66.42	27.70	3.67	-
PK	2.4835G	58.04	74.00	-15.96	31.51	3	Vertical	71	1.44	26.53	27.80	3.71	-

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

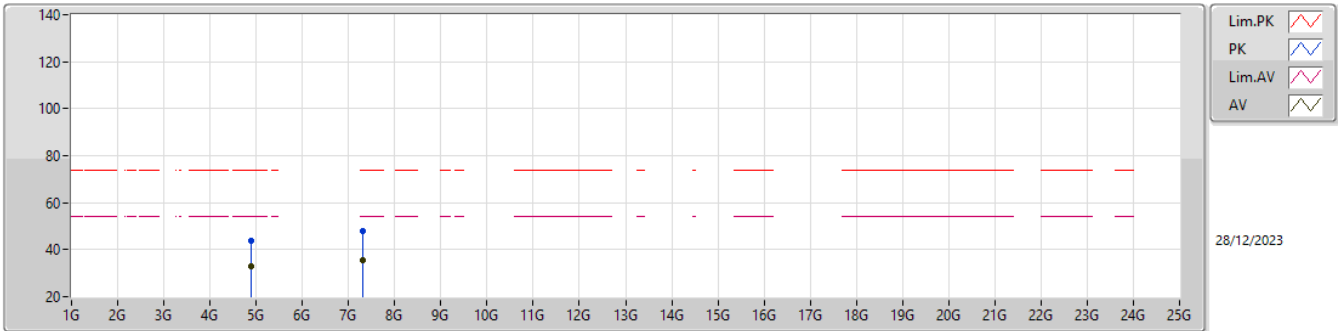
2440MHz\_TX



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	2.3856G	44.55	54.00	-9.45	31.19	3	Horizontal	49	2.36	13.36	27.56	3.63	-
AV	2.44G	104.92	Inf	-Inf	31.37	3	Horizontal	49	2.36	73.55	27.70	3.67	-
AV	2.49G	44.90	54.00	-9.10	31.51	3	Horizontal	49	2.36	13.39	27.80	3.71	-
PK	2.3828G	57.35	74.00	-16.65	31.16	3	Horizontal	49	2.36	26.19	27.53	3.63	-
PK	2.44G	105.98	Inf	-Inf	31.37	3	Horizontal	49	2.36	74.61	27.70	3.67	-
PK	2.498G	57.34	74.00	-16.66	31.52	3	Horizontal	49	2.36	25.82	27.80	3.72	-

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

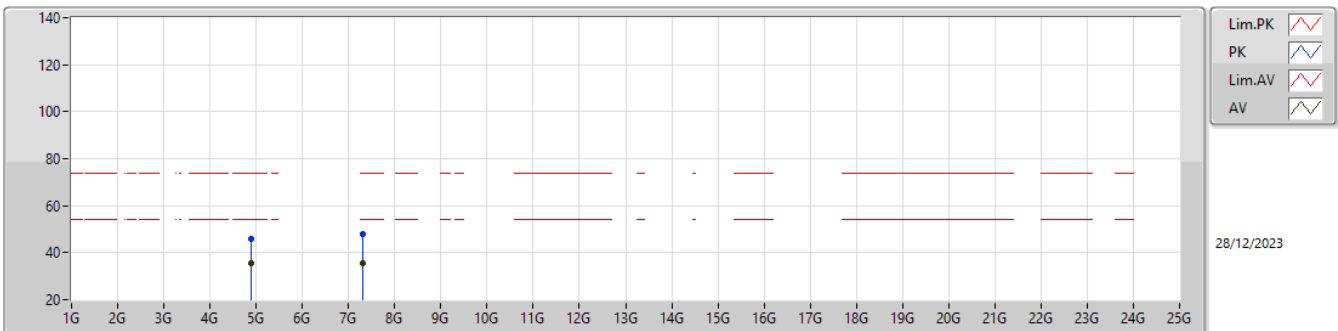
2440MHz\_TX



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	4.87978G	32.76	54.00	-21.24	0.80	3	Vertical	43	2.50	31.96	32.80	5.33	37.33
AV	7.31928G	35.75	54.00	-18.25	7.28	3	Vertical	227	2.25	28.47	37.22	6.60	36.54
PK	4.88076G	43.96	74.00	-30.04	0.80	3	Vertical	43	2.50	43.16	32.80	5.33	37.33
PK	7.31408G	47.81	74.00	-26.19	7.29	3	Vertical	227	2.25	40.52	37.24	6.59	36.54

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

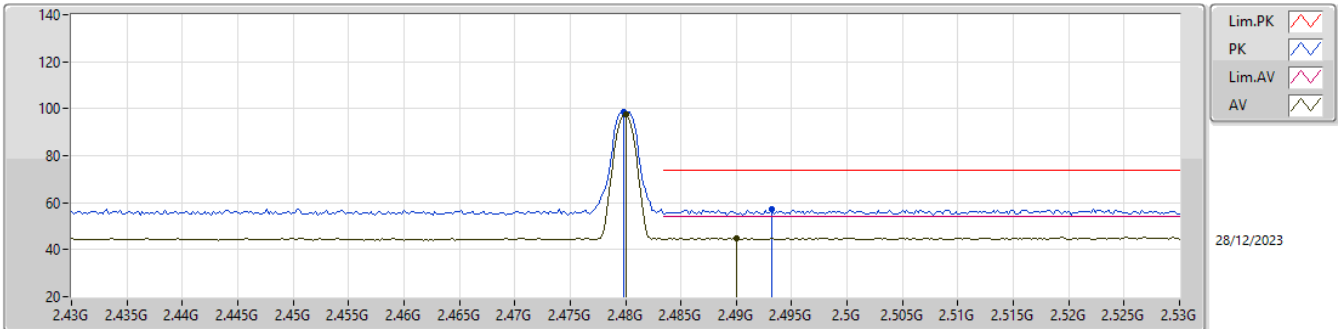
2440MHz\_TX



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	4.87959G	35.36	54.00	-18.64	0.80	3	Horizontal	99	1.02	34.56	32.80	5.33	37.33
AV	7.31364G	35.72	54.00	-18.28	7.30	3	Horizontal	306	1.87	28.42	37.25	6.59	36.54
PK	4.87985G	46.03	74.00	-27.97	0.80	3	Horizontal	99	1.02	45.23	32.80	5.33	37.33
PK	7.31452G	47.87	74.00	-26.13	7.29	3	Horizontal	306	1.87	40.58	37.24	6.59	36.54

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

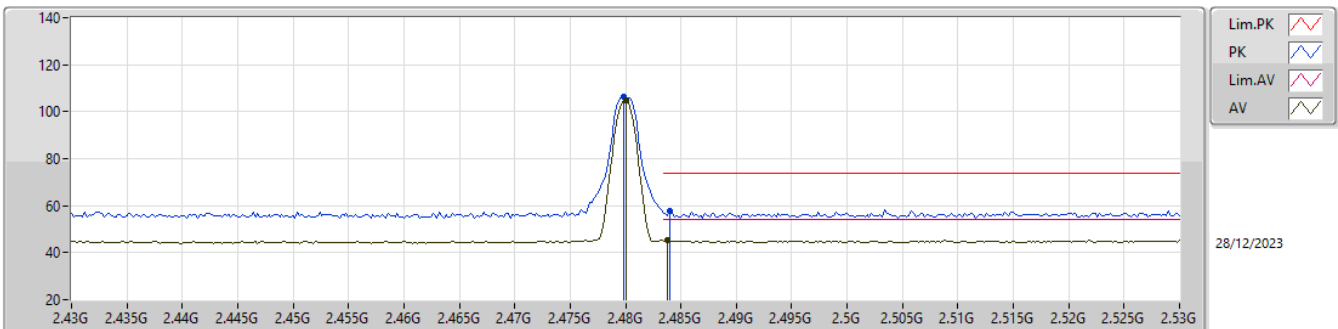
2480MHz\_TX



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	97.70	Inf	-Inf	31.50	3	Vertical	35	1.47	66.20	27.80	3.70	-
AV	2.49G	45.03	54.00	-8.97	31.51	3	Vertical	35	1.47	13.52	27.80	3.71	-
PK	2.4798G	98.80	Inf	-Inf	31.50	3	Vertical	35	1.47	67.30	27.80	3.70	-
PK	2.4932G	57.45	74.00	-16.55	31.51	3	Vertical	35	1.47	25.94	27.80	3.71	-

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

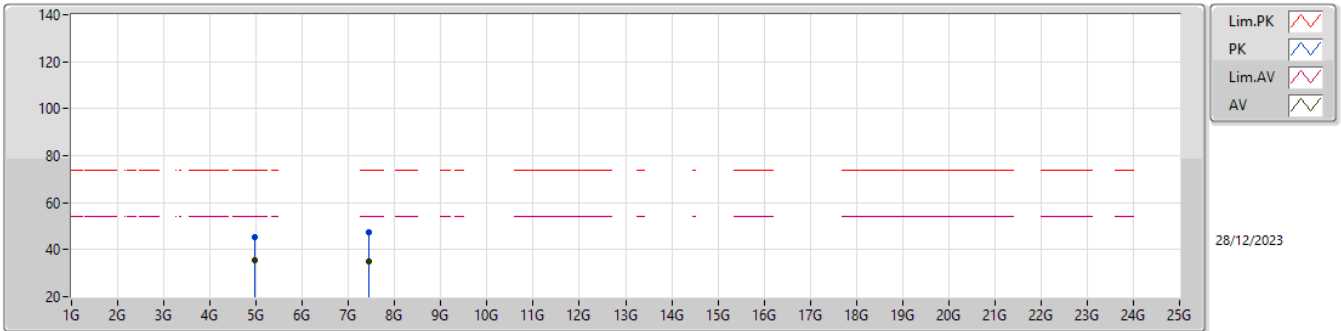
2480MHz\_TX



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	105.06	Inf	-Inf	31.50	3	Horizontal	40	3.00	73.56	27.80	3.70	-
AV	2.4838G	45.24	54.00	-8.76	31.51	3	Horizontal	40	3.00	13.73	27.80	3.71	-
PK	2.4798G	106.16	Inf	-Inf	31.50	3	Horizontal	40	3.00	74.66	27.80	3.70	-
PK	2.484G	57.79	74.00	-16.21	31.51	3	Horizontal	40	3.00	26.28	27.80	3.71	-

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

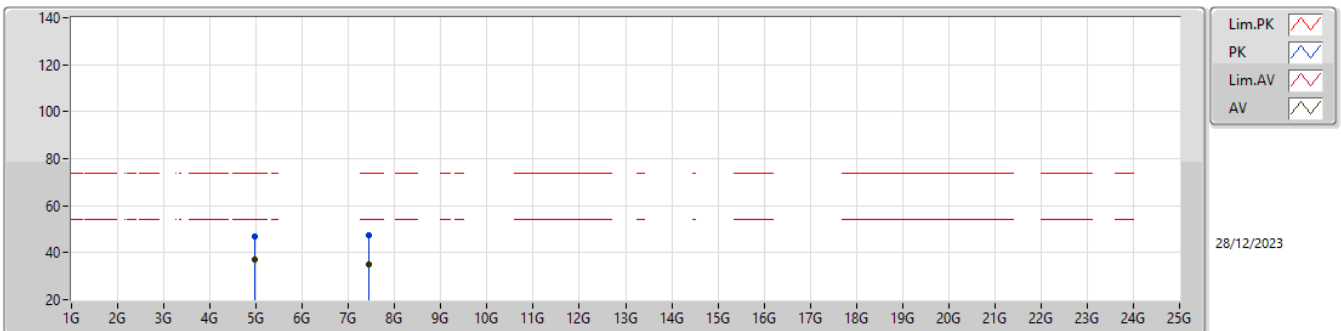
2480MHz\_TX



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	4.95977G	35.26	54.00	-18.74	1.27	3	Vertical	23	2.27	33.99	33.16	5.36	37.25
AV	7.43284G	34.84	54.00	-19.16	6.93	3	Vertical	229	2.00	27.91	36.73	6.71	36.51
PK	4.96015G	45.12	74.00	-28.88	1.28	3	Vertical	23	2.27	43.84	33.16	5.36	37.24
PK	7.4472G	47.52	74.00	-26.48	6.94	3	Vertical	229	2.00	40.58	36.71	6.73	36.50

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

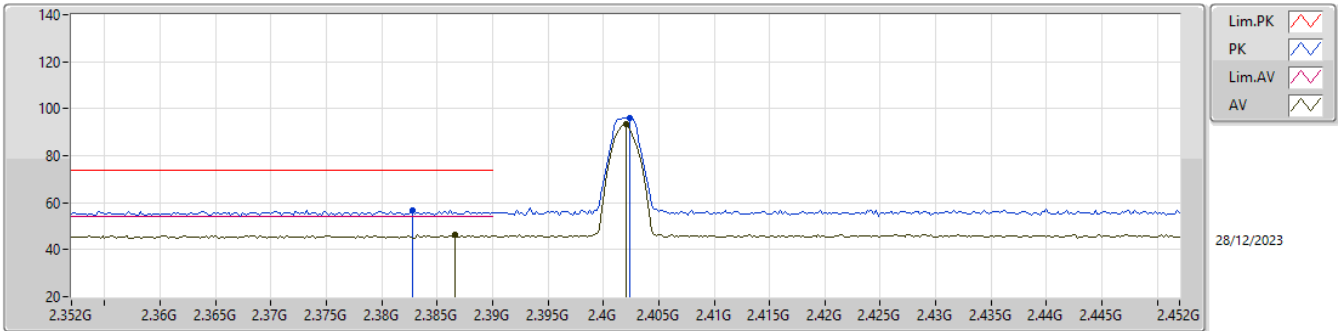
2480MHz\_TX



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	4.95997G	37.14	54.00	-16.86	1.28	3	Horizontal	89	2.24	35.86	33.16	5.36	37.24
AV	7.4396G	34.85	54.00	-19.15	6.93	3	Horizontal	136	1.50	27.92	36.72	6.72	36.51
PK	4.96012G	46.66	74.00	-27.34	1.28	3	Horizontal	89	2.24	45.38	33.16	5.36	37.24
PK	7.43204G	47.32	74.00	-26.68	6.93	3	Horizontal	136	1.50	40.39	36.74	6.70	36.51

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

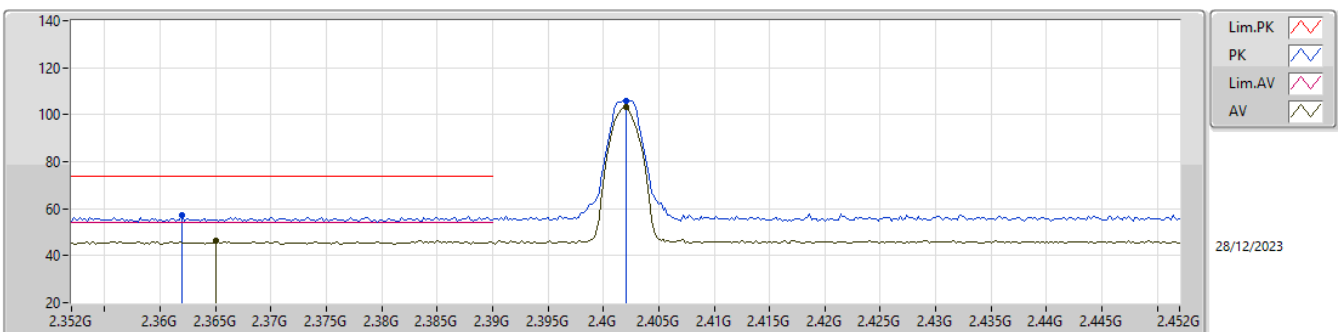
2402MHz\_TX



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)
PK	2.3828G	56.83	74.00	-17.17	31.16	3	Vertical	196	1.50	25.67	27.53	3.63	-
AV	2.3866G	46.32	54.00	-7.68	31.20	3	Vertical	196	1.50	15.12	27.57	3.63	-
PK	2.4024G	96.04	Inf	-Inf	31.34	3	Vertical	196	1.50	64.70	27.70	3.64	-
AV	2.402G	93.43	Inf	-Inf	31.34	3	Vertical	196	1.50	62.09	27.70	3.64	-

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

2402MHz\_TX

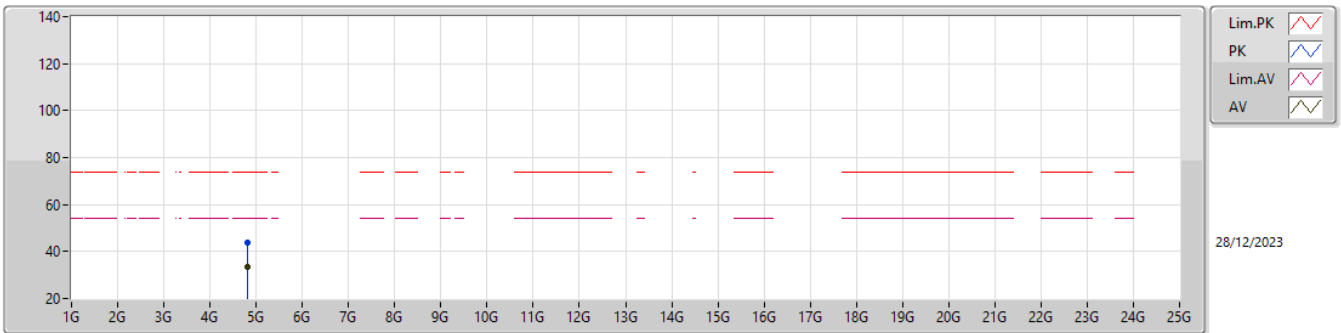


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	2.362G	57.09	74.00	-16.91	31.03	3	Horizontal	65	2.76	26.06	27.42	3.61	-
AV	2.365G	46.58	54.00	-7.42	31.07	3	Horizontal	65	2.76	15.51	27.45	3.62	-
PK	2.402G	105.78	Inf	-Inf	31.34	3	Horizontal	65	2.76	74.44	27.70	3.64	-
AV	2.402G	103.18	Inf	-Inf	31.34	3	Horizontal	65	2.76	71.84	27.70	3.64	-



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

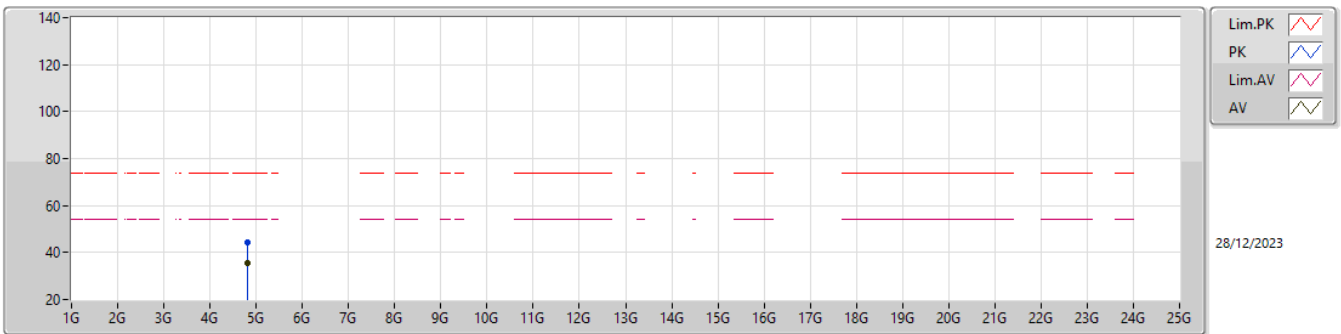
2402MHz\_TX



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	4.80299G	33.51	54.00	-20.49	0.39	3	Vertical	48	2.43	33.12	32.52	5.29	37.42
PK	4.80511G	43.63	74.00	-30.37	0.40	3	Vertical	48	2.43	43.23	32.53	5.29	37.42

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

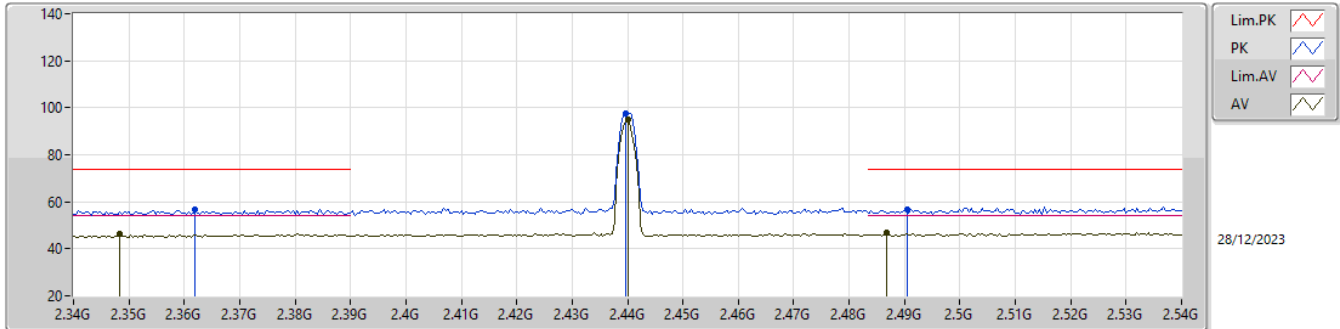
2402MHz\_TX



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	4.803G	35.46	54.00	-18.54	0.39	3	Horizontal	110	1.00	35.07	32.52	5.29	37.42
PK	4.80501G	44.53	74.00	-29.47	0.40	3	Horizontal	110	1.00	44.13	32.53	5.29	37.42

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

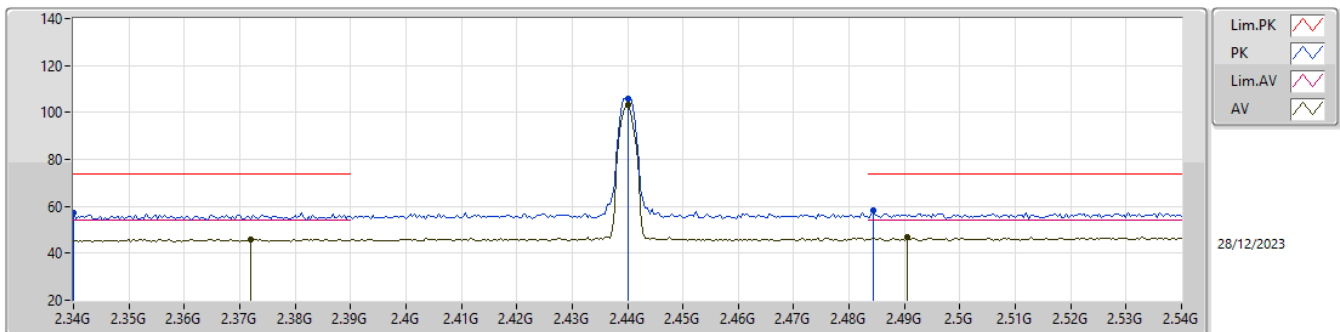
2440MHz\_TX



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	2.3484G	46.13	54.00	-7.87	30.98	3	Vertical	73	1.46	15.15	27.38	3.60	-
AV	2.44G	94.93	Inf	-Inf	31.37	3	Vertical	73	1.46	63.56	27.70	3.67	-
AV	2.4868G	46.67	54.00	-7.33	31.51	3	Vertical	73	1.46	15.16	27.80	3.71	-
PK	2.362G	56.50	74.00	-17.50	31.03	3	Vertical	73	1.46	25.47	27.42	3.61	-
PK	2.4396G	97.41	Inf	-Inf	31.37	3	Vertical	73	1.46	66.04	27.70	3.67	-
PK	2.4904G	56.93	74.00	-17.07	31.51	3	Vertical	73	1.46	25.42	27.80	3.71	-

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

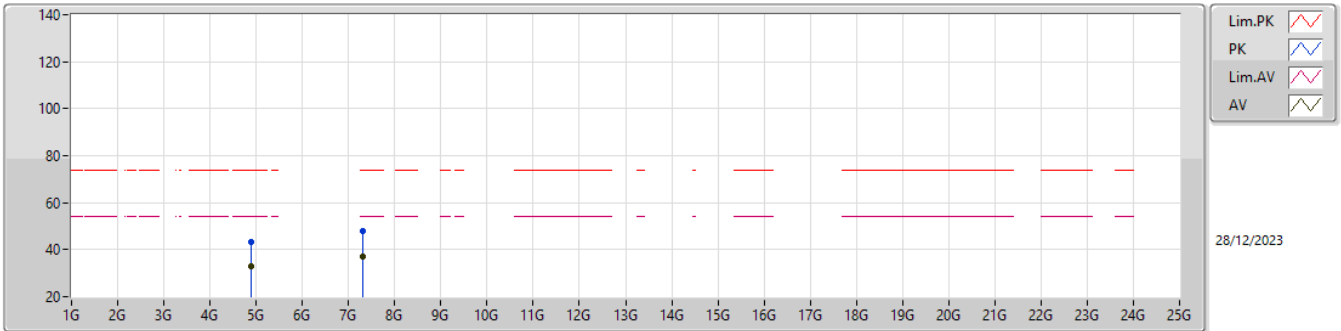
2440MHz\_TX



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	2.372G	46.04	54.00	-7.96	31.12	3	Horizontal	50	2.35	14.92	27.50	3.62	-
AV	2.44G	103.33	Inf	-Inf	31.37	3	Horizontal	50	2.35	71.96	27.70	3.67	-
AV	2.4904G	46.77	54.00	-7.23	31.51	3	Horizontal	50	2.35	15.26	27.80	3.71	-
PK	2.34G	57.04	74.00	-16.96	30.90	3	Horizontal	50	2.35	26.14	27.30	3.60	-
PK	2.44G	105.79	Inf	-Inf	31.37	3	Horizontal	50	2.35	74.42	27.70	3.67	-
PK	2.4844G	58.11	74.00	-15.89	31.51	3	Horizontal	50	2.35	26.60	27.80	3.71	-

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

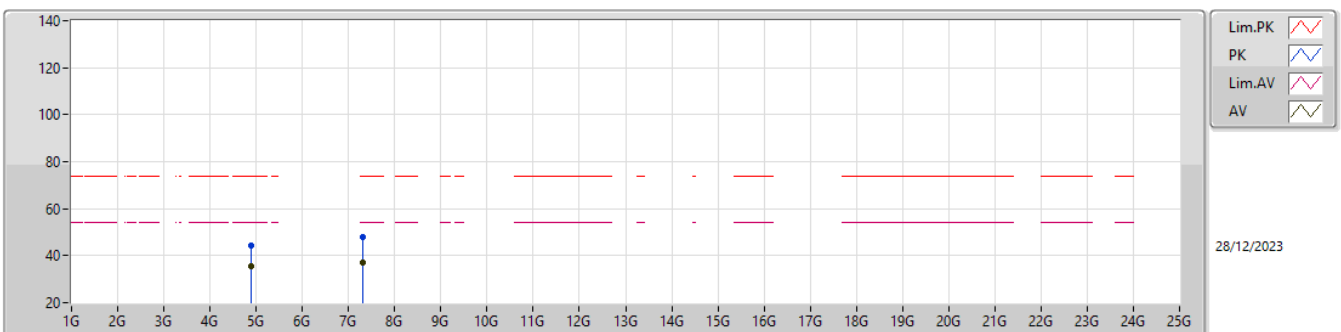
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.879G	33.17	54.00	-20.83	0.79	3	Vertical	37	2.35	32.38	32.80	5.33	37.34
AV	7.3212G	36.95	54.00	-17.05	7.28	3	Vertical	179	2.03	29.67	37.22	6.60	36.54
PK	4.88108G	43.37	74.00	-30.63	0.80	3	Vertical	37	2.35	42.57	32.80	5.33	37.33
PK	7.32152G	47.94	74.00	-26.06	7.27	3	Vertical	179	2.03	40.67	37.21	6.60	36.54

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

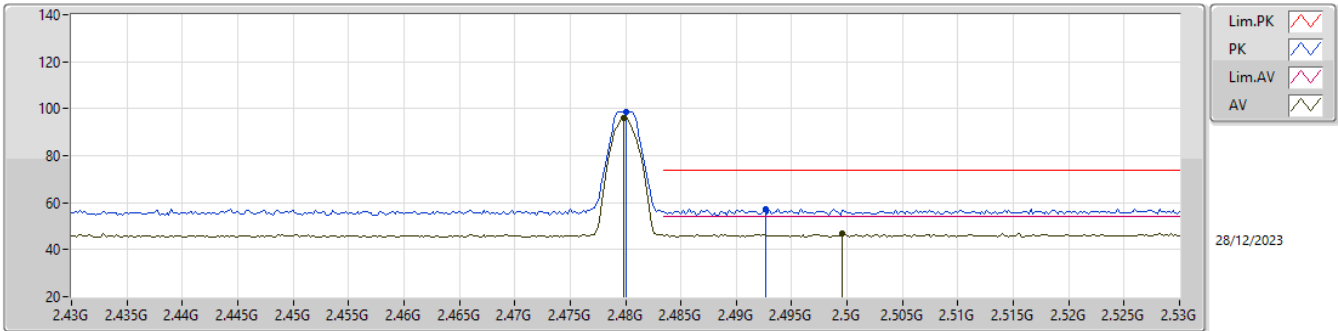
2440MHz\_TX



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	4.87899G	35.33	54.00	-18.67	0.79	3	Horizontal	100	1.00	34.54	32.80	5.33	37.34
AV	7.31824G	37.06	54.00	-16.94	7.29	3	Horizontal	289	1.78	29.77	37.23	6.60	36.54
PK	4.88001G	44.26	74.00	-29.74	0.80	3	Horizontal	100	1.00	43.46	32.80	5.33	37.33
PK	7.32071G	47.97	74.00	-26.03	7.28	3	Horizontal	289	1.78	40.69	37.22	6.60	36.54

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

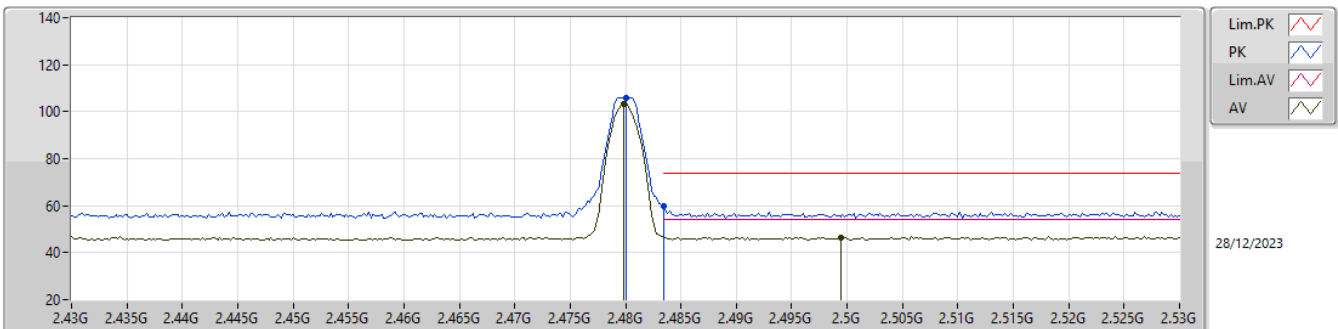
2480MHz\_TX



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	2.4798G	96.09	Inf	-Inf	31.50	3	Vertical	36	1.47	64.59	27.80	3.70	-
AV	2.4996G	46.67	54.00	-7.33	31.52	3	Vertical	36	1.47	15.15	27.80	3.72	-
PK	2.48G	98.63	Inf	-Inf	31.50	3	Vertical	36	1.47	67.13	27.80	3.70	-
PK	2.4926G	57.28	74.00	-16.72	31.51	3	Vertical	36	1.47	25.77	27.80	3.71	-

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

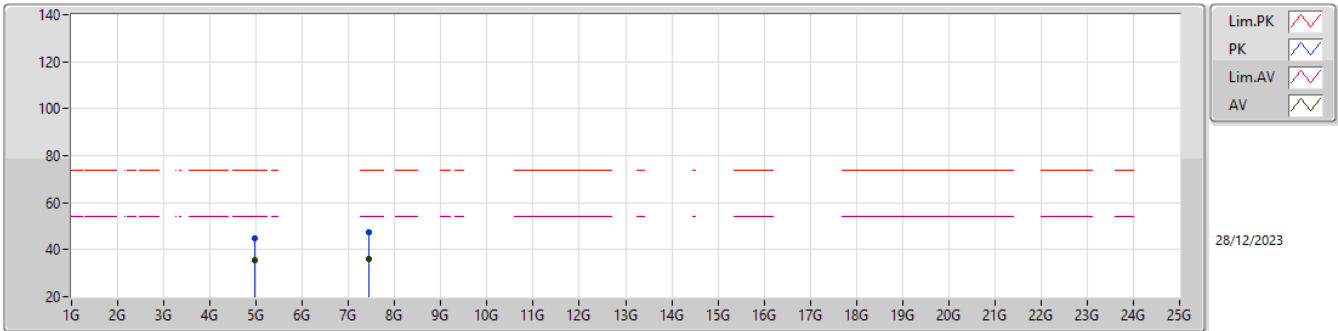
2480MHz\_TX



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	2.4798G	103.45	Inf	-Inf	31.50	3	Horizontal	39	3.00	71.95	27.80	3.70	-
AV	2.4994G	46.55	54.00	-7.45	31.52	3	Horizontal	39	3.00	15.03	27.80	3.72	-
PK	2.48G	105.99	Inf	-Inf	31.50	3	Horizontal	39	3.00	74.49	27.80	3.70	-
PK	2.4835G	59.58	74.00	-14.42	31.51	3	Horizontal	39	3.00	28.07	27.80	3.71	-

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

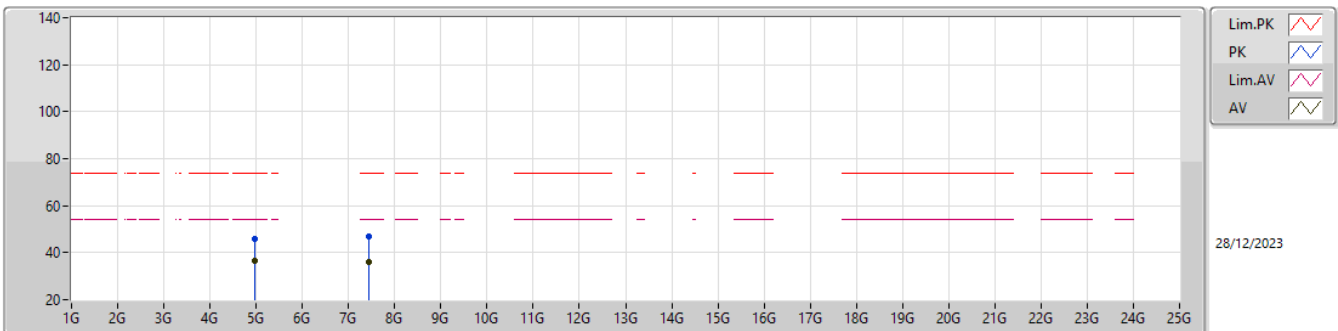
2480MHz\_TX



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	4.96085G	35.71	54.00	-18.29	1.29	3	Vertical	23	2.27	34.42	33.17	5.36	37.24
AV	7.44198G	36.28	54.00	-17.72	6.93	3	Vertical	65	1.78	29.35	36.72	6.72	36.51
PK	4.95992G	44.94	74.00	-29.06	1.28	3	Vertical	23	2.27	43.66	33.16	5.36	37.24
PK	7.43822G	47.46	74.00	-26.54	6.93	3	Vertical	65	1.78	40.53	36.72	6.72	36.51

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	4.95898G	36.75	54.00	-17.25	1.26	3	Horizontal	86	2.25	35.49	33.15	5.36	37.25
AV	7.44217G	36.25	54.00	-17.75	6.93	3	Horizontal	317	2.51	29.32	36.72	6.72	36.51
PK	4.95907G	45.72	74.00	-28.28	1.26	3	Horizontal	86	2.25	44.46	33.15	5.36	37.25
PK	7.43989G	47.05	74.00	-26.95	6.93	3	Horizontal	317	2.51	40.12	36.72	6.72	36.51



**Summary**

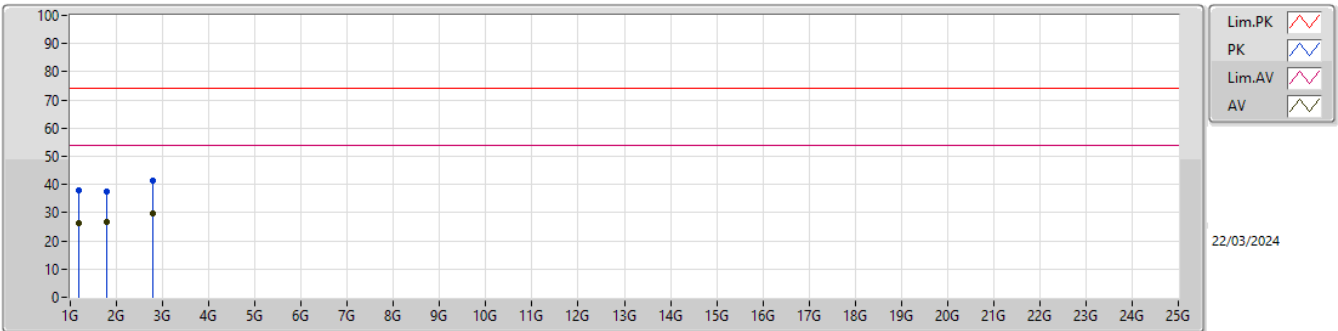
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	2.96825G	30.95	54.00	-23.05	Horizontal
Mode 2	Pass	AV	3.94919G	32.80	54.00	-21.20	Horizontal



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	1.18936G	26.36	54.00	-27.64	3	Vertical	285	1.99
Mode 1	Pass	AV	1.79986G	26.92	54.00	-27.08	3	Vertical	143	2.59
Mode 1	Pass	AV	2.78902G	29.85	54.00	-24.15	3	Vertical	335	1.16
Mode 1	Pass	PK	1.18903G	37.94	74.00	-36.06	3	Vertical	285	1.99
Mode 1	Pass	PK	1.79286G	37.61	74.00	-36.39	3	Vertical	143	2.59
Mode 1	Pass	PK	2.7869G	41.47	74.00	-32.53	3	Vertical	335	1.16
Mode 1	Pass	AV	1.2029G	26.76	54.00	-27.24	3	Horizontal	184	1.72
Mode 1	Pass	AV	1.83312G	26.44	54.00	-27.56	3	Horizontal	186	1.12
Mode 1	Pass	AV	2.96825G	30.95	54.00	-23.05	3	Horizontal	224	1.51
Mode 1	Pass	PK	1.20232G	38.80	74.00	-35.20	3	Horizontal	184	1.72
Mode 1	Pass	PK	1.83468G	37.83	74.00	-36.17	3	Horizontal	186	1.12
Mode 1	Pass	PK	2.96219G	42.46	74.00	-31.54	3	Horizontal	224	1.51
Mode 2	Pass	AV	1.19439G	27.87	54.00	-26.13	3	Vertical	139	2.71
Mode 2	Pass	AV	1.9964G	25.73	68.20	-42.47	3	Vertical	114	2.92
Mode 2	Pass	AV	3.91103G	32.13	54.00	-21.87	3	Vertical	191	1.20
Mode 2	Pass	PK	1.19885G	40.07	74.00	-33.93	3	Vertical	139	2.71
Mode 2	Pass	PK	1.99643G	37.27	68.20	-30.93	3	Vertical	114	2.92
Mode 2	Pass	PK	3.90909G	43.75	74.00	-30.25	3	Vertical	191	1.20
Mode 2	Pass	AV	1.19205G	27.87	54.00	-26.13	3	Horizontal	82	2.96
Mode 2	Pass	AV	2.0071G	25.87	68.20	-42.33	3	Horizontal	285	2.70
Mode 2	Pass	AV	3.94919G	32.80	54.00	-21.20	3	Horizontal	42	1.44
Mode 2	Pass	PK	1.19803G	39.64	74.00	-34.36	3	Horizontal	82	2.96
Mode 2	Pass	PK	2.01066G	37.08	68.20	-31.12	3	Horizontal	285	2.70
Mode 2	Pass	PK	3.94327G	44.35	74.00	-29.65	3	Horizontal	42	1.44

Radiated Emissions above 1GHz\_Mode 1

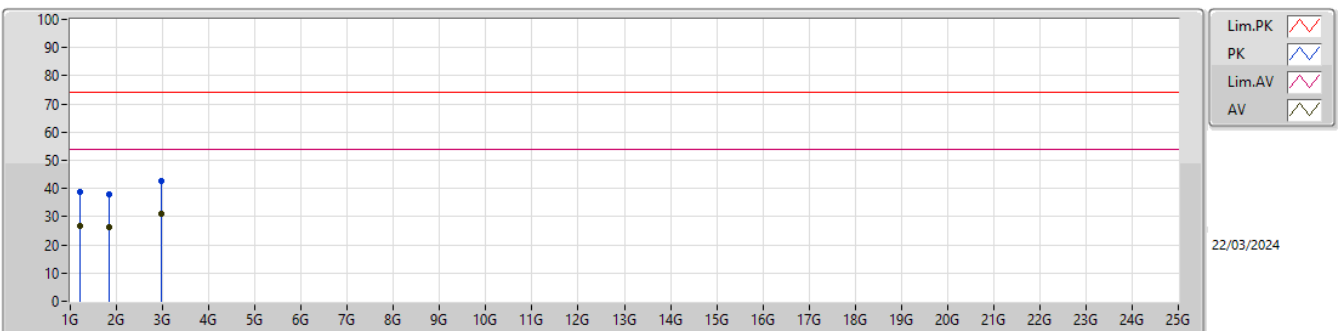


Lim.PK  
PK  
Lim.AV  
AV

22/03/2024

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.18936G	26.36	54.00	-27.64	-4.40	3	Vertical	285	1.99	30.76	25.99	3.69	34.08
AV	1.79986G	26.92	54.00	-27.08	-4.23	3	Vertical	143	2.59	31.15	24.90	4.51	33.64
AV	2.78902G	29.85	54.00	-24.15	0.34	3	Vertical	335	1.16	29.51	28.30	5.91	33.87
PK	1.18903G	37.94	74.00	-36.06	-4.40	3	Vertical	285	1.99	42.34	25.99	3.69	34.08
PK	1.79286G	37.61	74.00	-36.39	-4.17	3	Vertical	143	2.59	41.78	24.97	4.50	33.64
PK	2.7869G	41.47	74.00	-32.53	0.33	3	Vertical	335	1.16	41.14	28.30	5.90	33.87

Radiated Emissions above 1GHz\_Mode 1



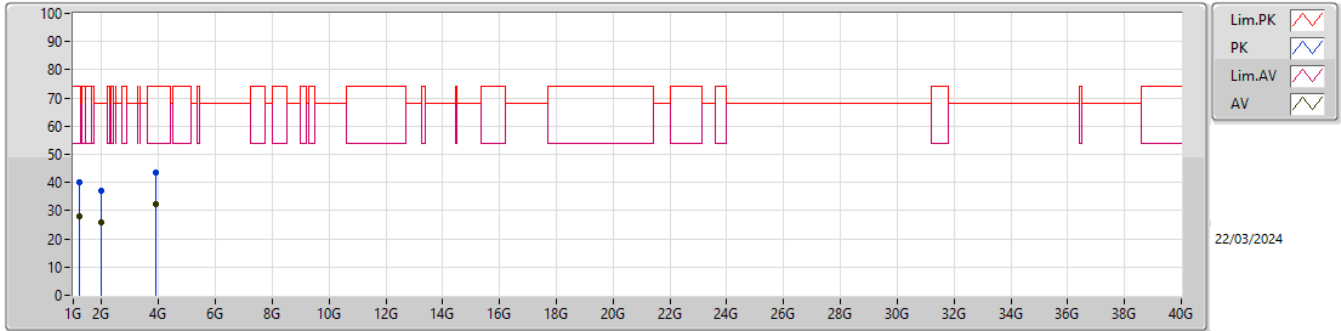
Lim.PK  
PK  
Lim.AV  
AV

22/03/2024

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.2029G	26.76	54.00	-27.24	-4.45	3	Horizontal	184	1.72	31.21	25.90	3.71	34.06
AV	1.83312G	26.44	54.00	-27.56	-3.84	3	Horizontal	186	1.12	30.28	25.23	4.57	33.64
AV	2.96825G	30.95	54.00	-23.05	1.33	3	Horizontal	224	1.51	29.62	29.18	6.16	34.01
PK	1.20232G	38.80	74.00	-35.20	-4.45	3	Horizontal	184	1.72	43.25	25.90	3.71	34.06
PK	1.83468G	37.83	74.00	-36.17	-3.82	3	Horizontal	186	1.12	41.65	25.25	4.57	33.64
PK	2.96219G	42.46	74.00	-31.54	1.27	3	Horizontal	224	1.51	41.19	29.12	6.15	34.00

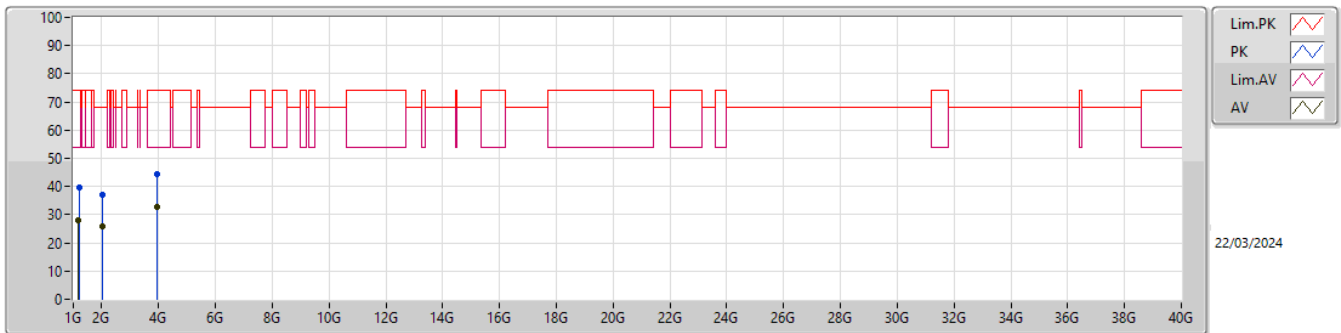


Radiated Emissions above 1GHz\_Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.19439G	27.87	54.00	-26.13	-4.41	3	Vertical	139	2.71	32.28	25.96	3.70	34.07
AV	1.9964G	25.73	68.20	-42.47	-2.28	3	Vertical	114	2.92	28.01	26.53	4.84	33.65
AV	3.91103G	32.13	54.00	-21.87	3.87	3	Vertical	191	1.20	28.26	30.78	7.11	34.02
PK	1.19885G	40.07	74.00	-33.93	-4.44	3	Vertical	139	2.71	44.51	25.91	3.71	34.06
PK	1.99643G	37.27	68.20	-30.93	-2.28	3	Vertical	114	2.92	39.55	26.53	4.84	33.65
PK	3.90909G	43.75	74.00	-30.25	3.86	3	Vertical	191	1.20	39.89	30.78	7.10	34.02

Radiated Emissions above 1GHz\_Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.19205G	27.87	54.00	-26.13	-4.40	3	Horizontal	82	2.96	32.27	25.98	3.69	34.07
AV	2.0071G	25.87	68.20	-42.33	-1.91	3	Horizontal	285	2.70	27.78	26.88	4.86	33.65
AV	3.94919G	32.80	54.00	-21.20	3.87	3	Horizontal	42	1.44	28.93	30.70	7.18	34.01
PK	1.19803G	39.64	74.00	-34.36	-4.43	3	Horizontal	82	2.96	44.07	25.92	3.71	34.06
PK	2.01066G	37.08	68.20	-31.12	-1.77	3	Horizontal	285	2.70	38.85	27.01	4.87	33.65
PK	3.94327G	44.35	74.00	-29.65	3.87	3	Horizontal	42	1.44	40.48	30.71	7.17	34.01