

FCC Radio Test Report

FCC ID : TVE-111T15H

Equipment : Network Security Gateway

Brand Name : FORTINET

Model Name : FG-3700F, FG-3701F, FG-3700F-DC, FG-3701F-DC
FortiGate 3700Fxxxxxxxxxx, FORTIGATE-3700Fxxxxxxxxxx,
FG-3700Fxxxxxxxxxx, FortiGate 3701Fxxxxxxxxxx,
FORTIGATE-3701Fxxxxxxxxxx, FG-3701Fxxxxxxxxxx,
FortiGate 3700F-DCxxxxxxxxxx, FORTIGATE-3700F-DCxxxxxxxxxx,
FG-3700F-DCxxxxxxxxxx, FortiGate 3701F-DCxxxxxxxxxx,
FORTIGATE-3701F-DCxxxxxxxxxx, FG-3701F-DCxxxxxxxxxx
(where "x" can be used as "A-Z", or "0-9", or "-", or blank for
software changes or marketing purposes only)

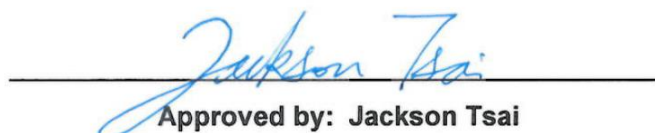
Applicant : Fortinet, Inc.
899 Kifer Road, Sunnyvale, CA 94086, USA

Manufacturer : Fortinet, Inc.
899 Kifer Road, Sunnyvale, CA 94086, USA

Standard : 47 CFR FCC Part 15.247

The product was received on Feb. 14, 2023, and testing was started from Mar. 01, 2023 and completed on Mar. 11, 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.)



Table of Contents

HISTORY OF THIS TEST REPORT	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Information.....	5
1.2 Testing Applied Standards	8
1.3 Testing Location Information	8
1.4 Measurement Uncertainty	8
2 TEST CONFIGURATION OF EUT.....	9
2.1 Test Channel Mode	9
2.2 The Worst Case Measurement Configuration.....	10
2.3 Accessories	12
2.4 Support Equipment.....	12
2.5 Test Setup Diagram	13
3 TRANSMITTER TEST RESULT	23
3.1 AC Power-line Conducted Emissions	23
3.2 DTS Bandwidth.....	25
3.3 Maximum Conducted Output Power	26
3.4 Power Spectral Density	28
3.5 Emissions in Non-restricted Frequency Bands	29
3.6 Emissions in Restricted Frequency Bands.....	30
4 TEST EQUIPMENT AND CALIBRATION DATA.....	34
APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS	
APPENDIX B. TEST RESULTS OF DTS BANDWIDTH	
APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER	
APPENDIX D. TEST RESULTS OF POWER SPECTRAL DENSITY	
APPENDIX E. TEST RESULTS OF EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS	
APPENDIX F. TEST RESULTS OF EMISSIONS IN RESTRICTED FREQUENCY BANDS	
APPENDIX G. TEST PHOTOS	
PHOTOGRAPHS OF EUT V01	

[illegible]

Summary of Test Result

Report Clause	Ref.Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and explanations:

The EUT is considered a Class A device. After verification, the frequency 35 MHz in Radiated Emissions below 1GHz Test and frequency 1MHz, 2MHz, 3MHz, 4MHz, 5MHz in AC Power-line Conducted Emissions Test was excluded which was not generated by RF transmitter. However, it is complied with FCC Part 15 Subpart B Class A limit.

Reviewed by: Barry Hsiao

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
2.4-2.4835GHz	BT-LE(125kbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(500kbps)	1.0	1TX

Note:

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	INPAQ	WA-F-LA-02-120	PIFA	I-PEX	1.78
2	Wieson	ARY196-0346-002-00	PIFA	I-PEX	-0.2

Note 1: The EUT has two antennas.

Note 2: EUT can match with above antennas for using. Higher gain of antenna was used to perform the worst configuration and result of that was recorded as the final test result.

For BT function:

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

Ant. 1 or Ant. 2 could transmit/receive.

1.1.3 EUT Information

Operational Condition	
EUT Power Type	From AC Mains / DC Power supply
EUT Function	☒ Point-to-multipoint ☐ Point-to-point
Type of EUT	
☒	Stand-alone
☐	Combined (EUT where the radio part is fully integrated within another device)
	Combined Equipment - Brand Name / Model No.: ...
☐	Plug-in radio (EUT intended for a variety of host systems)
	Host System - Brand Name / Model No.: ...
☐	Other:

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
BT-LE(1Mbps)	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
BT-LE(125kbps)	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
BT-LE(500kbps)	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
BT-LE(2Mbps)	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)

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

1.1.5 Table for Multiple Listing

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

Model Name	PSU	SSD
FG-3700F, FortiGate 3700Fxxxxxxxxxx, FORTIGATE-3700Fxxxxxxxxxx, FG-3700Fxxxxxxxxxx (where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only)	AC	-
FG-3700F-DC, FortiGate 3700F-DCxxxxxxxxxx, FORTIGATE-3700F-DCxxxxxxxxxx, FG-3700F-DCxxxxxxxxxx, (where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only)	DC	-
FG3701F, FortiGate 3701Fxxxxxxxxxx, FORTIGATE-3701Fxxxxxxxxxx, FG-3701Fxxxxxxxxxx (where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only)	AC	V
FG-3701F-DC, FortiGate 3701F-DCxxxxxxxxxx, FORTIGATE-3701F-DCxxxxxxxxxx, FG-3701F-DCxxxxxxxxxx (where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only)	DC	V

1.2 Testing Applied Standards

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

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

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

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

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Wayne Chiu	22.3~23.6°C / 56.3~58.1%	10/Mar/2023~11/Mar/2023
RF Conducted	TH01-HY	Luby hsu	22.2~23.4°C / 50~52%	01/Mar/2023~09/Mar/2023
Radiated	03CH02-HY	Jack Tang	21.8~23.2°C / 55.9~57.3%	03/Mar/2023~09/Mar/2023

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	Tera Term Version 4.76
Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	5dB
2440MHz	5dB
2480MHz	5dB
BT-LE(2Mbps)	-
2402MHz	5dB
2440MHz	5dB
2480MHz	5dB
BT-LE(125kbps)	-
2402MHz	5dB
2440MHz	5dB
2480MHz	5dB
BT-LE(500kbps)	-
2402MHz	5dB
2440MHz	5dB
2480MHz	5dB

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	FG-3701F (Left AC + SSD)
2	FG-3701F (Right AC + SSD)
3	FG-3701F (Left AC + Right AC + SSD)
4	FG-3700F (Left AC)
5	FG-3700F (Right AC)
6	FG-3700F (Left AC + Right AC)

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

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	FG-3701F (Left AC + SSD)		
2	FG-3701F (Right AC + SSD)		
3	FG-3701F (Left AC + Right AC + SSD)		
4	FG-3701F-DC (Left DC + SSD)		
5	FG-3701F-DC (Right DC + SSD)		
6	FG-3701F-DC (Left DC + Right DC + SSD)		
7	FG-3700F (Left AC)		
8	FG-3700F (Right AC)		
9	FG-3700F (Left AC + Right AC)		
10	FG-3700F-DC (Left DC)		
11	FG-3700F-DC (Right DC)		
12	FG-3700F-DC (Left DC + Right DC)		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V

2.3 Accessories

Accessories				
AC PSU *2	Brand Name	muRata	Model Name	D1U54P-W-1500-12-HA4TC
	Manufacturer	MURATA	SN	-
	Power Rating	I/P: 100 - 240 Vac, 15/12/10 A, O/P: 12 Vdc, 105/116.6/125 A		
	Power Cord	1.8 meter, non-shielded cable, w/o ferrite core		
DC PSU *2	Brand Name	muRata	Model Name	D1U54P-D-1500-12-HA4C
	Manufacturer	MURATA	SN	-
	Power Rating	I/P: -48 - -60 Vac, 44 A, O/P: 12 Vdc, 125 A; 5 Vdc, 4 A		
Ethernet Cable	Brand Name	ENERGY FULL	Model Name	R047685R
	Manufacturer	ENERGY FULL	SN	-
	Signal Line	2 meter, non-shielded cable, w/o ferrite core		
SFP+Transceiver	Brand Name	FINISAR	Model Name	FTLX8574D3BCLFTN
Console Cable	Brand Name	FORTINET	Model Name	C85881A02E1M8

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

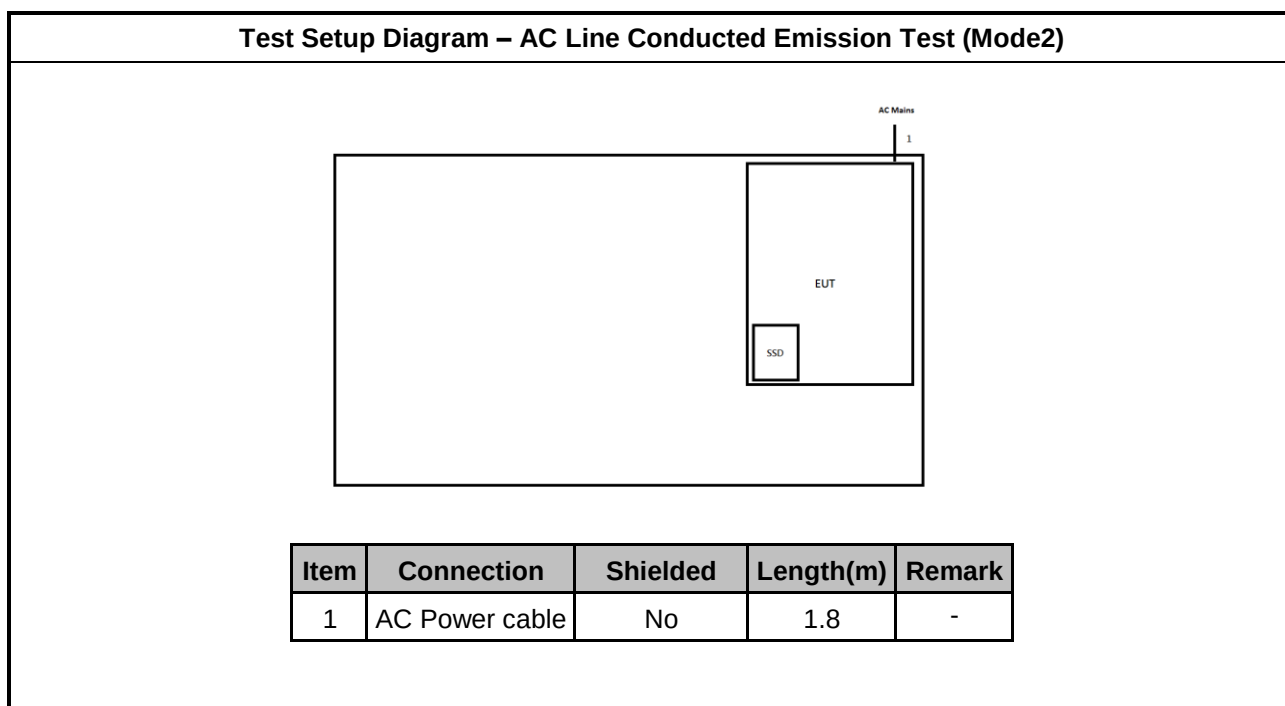
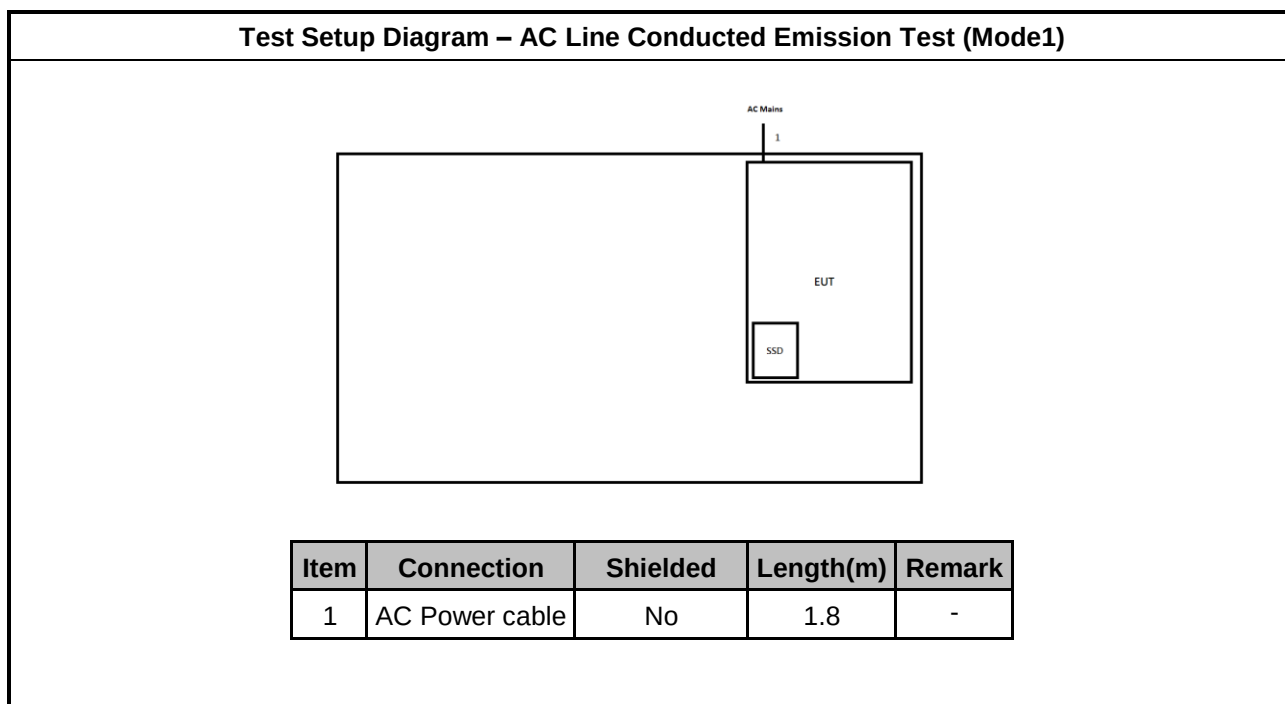
2.4 Support Equipment

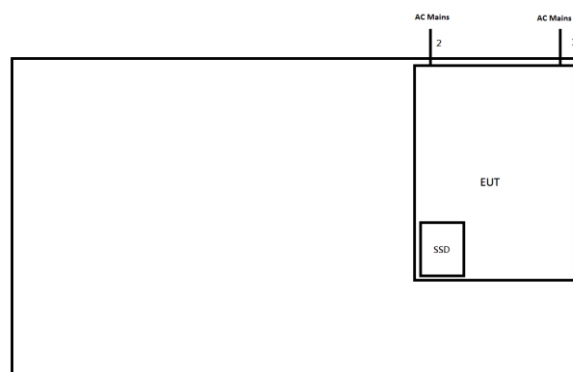
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC Power Cable x2	PowerSync	TPCMRN0018	-	-

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

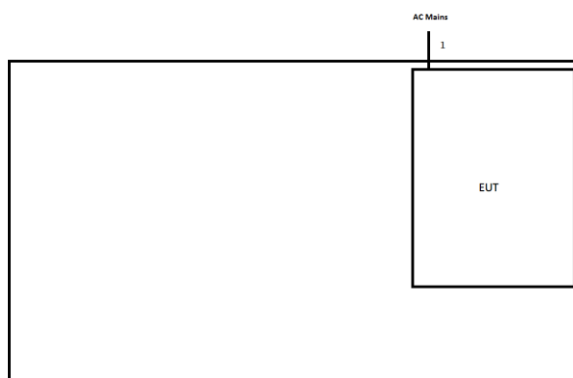
Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	DC Power cable(+)	MiSUMi	WTN1227-RED	-	-
2	DC Power cable(-)	MiSUMi	WTN1227-BLACK	-	-
3	DC Power cable(+)	Sporton	DC Cable01	-	-
4	DC Power cable(-)	Sporton	DC Cable02	-	-
5	DC Power Supply	Chroma	62024P-100-50	-	-
6	DC Power Supply	Chroma	62024P-100-50	-	-
7	AC Power Cable x2	PowerSync	TPCMRN0018	-	-

2.5 Test Setup Diagram

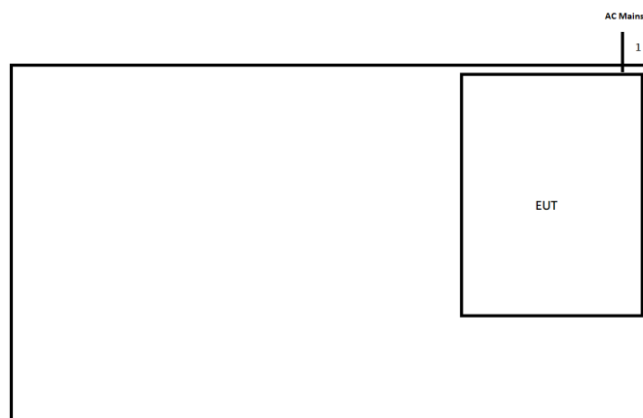


Test Setup Diagram – AC Line Conducted Emission Test (Mode3)


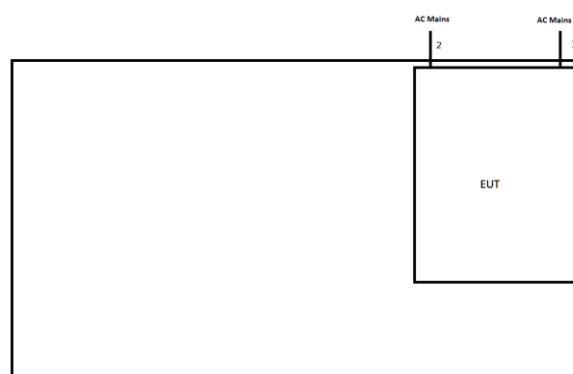
Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	AC Power cable	No	1.8	-

Test Setup Diagram – AC Line Conducted Emission Test (Mode 4)


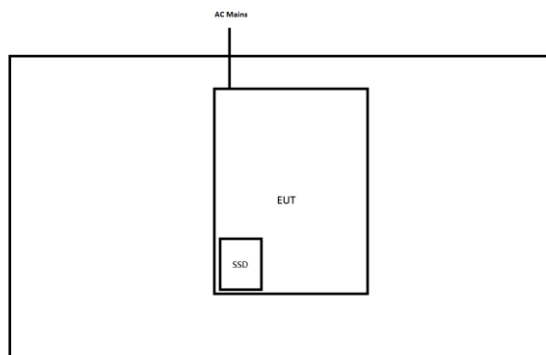
Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-

Test Setup Diagram – AC Line Conducted Emission Test (Mode 5)


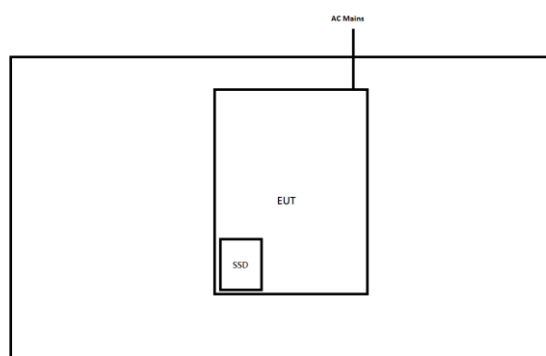
Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-

Test Setup Diagram – AC Line Conducted Emission Test (Mode 6)


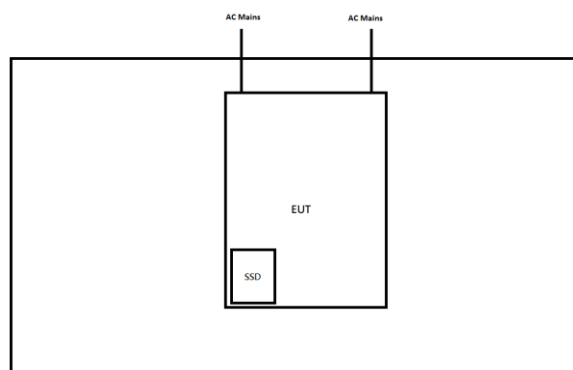
Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	AC Power cable	No	1.8	-

Test Setup Diagram - Radiated Test (Mode 1)


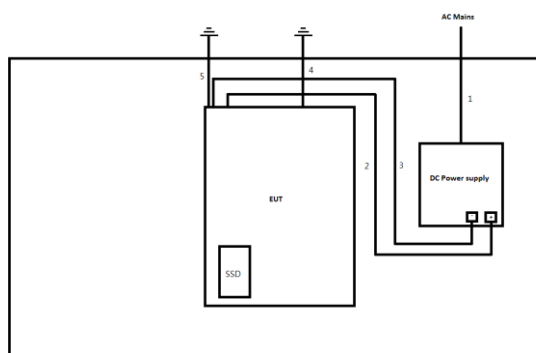
Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-

Test Setup Diagram - Radiated Test (Mode 2)


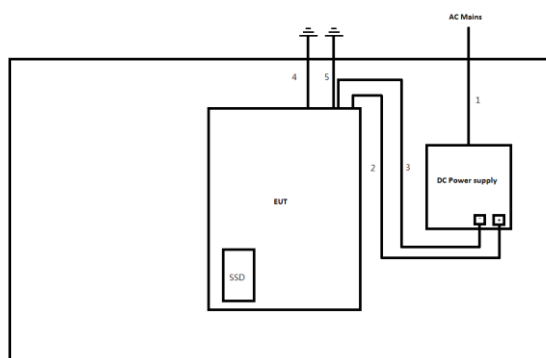
Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-

Test Setup Diagram - Radiated Test (Mode 3)


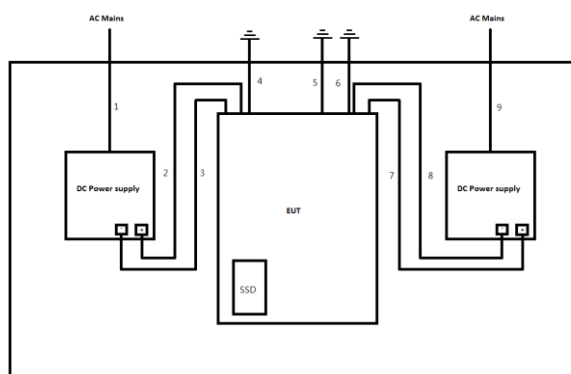
Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	AC Power cable	No	1.8	-

Test Setup Diagram - Radiated Test (Mode 4)


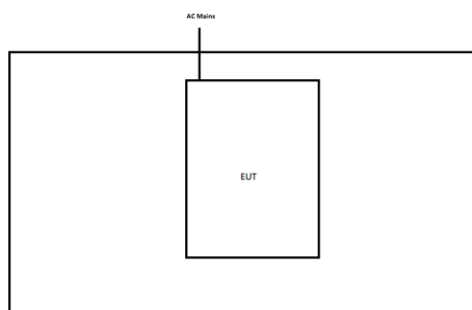
Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable(+)	No	1.0	-
3	DC Power cable(-)	No	1.0	-
4	Ground cable	No	1.0	-
5	Ground cable	No	1.0	-

Test Setup Diagram - Radiated Test (Mode 5)


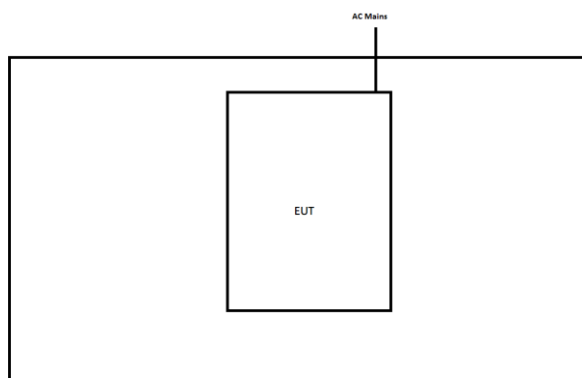
Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable(+)	No	1.0	-
3	DC Power cable(-)	No	1.0	-
4	Ground cable	No	1.0	-
5	Ground cable	No	1.0	-

Test Setup Diagram - Radiated Test (Mode 6)


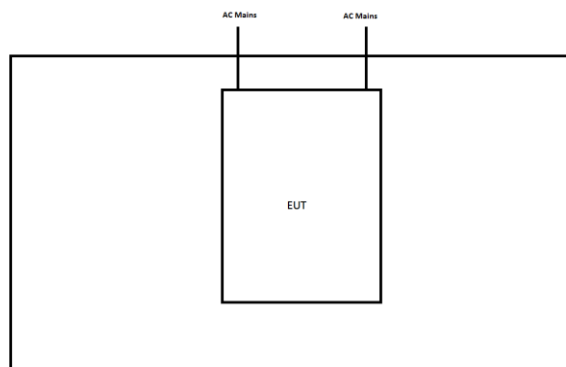
Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable(+)	No	1.0	-
3	DC Power cable(-)	No	1.0	-
4	Ground cable	No	1.0	-
5	Ground cable	No	1.0	-
6	Ground cable	No	1.0	-
7	DC Power cable(+)	No	1.0	-
8	DC Power cable(-)	No	1.0	-
9	AC Power cable	No	1.8	-

Test Setup Diagram - Radiated Test (Mode 7)


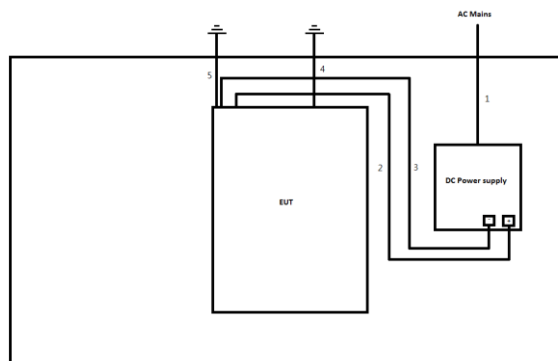
Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-

Test Setup Diagram - Radiated Test (Mode 8)


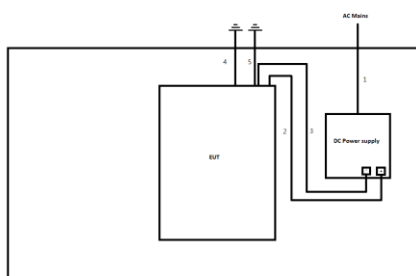
Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-

Test Setup Diagram - Radiated Test (Mode 9)


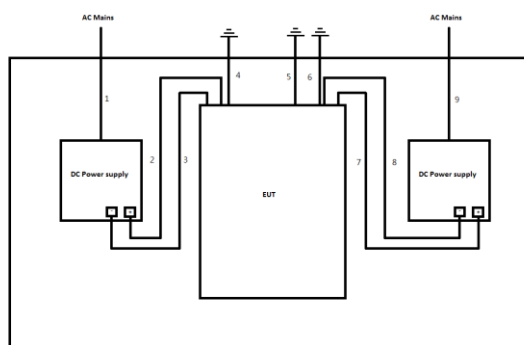
Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	AC Power cable	No	1.8	-

Test Setup Diagram - Radiated Test (Mode 10)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable(+)	No	1.0	-
3	DC Power cable(-)	No	1.0	-
4	Ground cable	No	1.0	-
5	Ground cable	No	1.0	-

Test Setup Diagram - Radiated Test (Mode 11)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable(+)	No	1.0	-
3	DC Power cable(-)	No	1.0	-
4	Ground cable	No	1.0	-
5	Ground cable	No	1.0	-

Test Setup Diagram - Radiated Test (Mode 12)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable(+)	No	1.0	-
3	DC Power cable(-)	No	1.0	-
4	Ground cable	No	1.0	-
5	Ground cable	No	1.0	-
6	Ground cable	No	1.0	-
7	DC Power cable(+)	No	1.0	-
8	DC Power cable(-)	No	1.0	-
9	AC Power cable	No	1.8	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

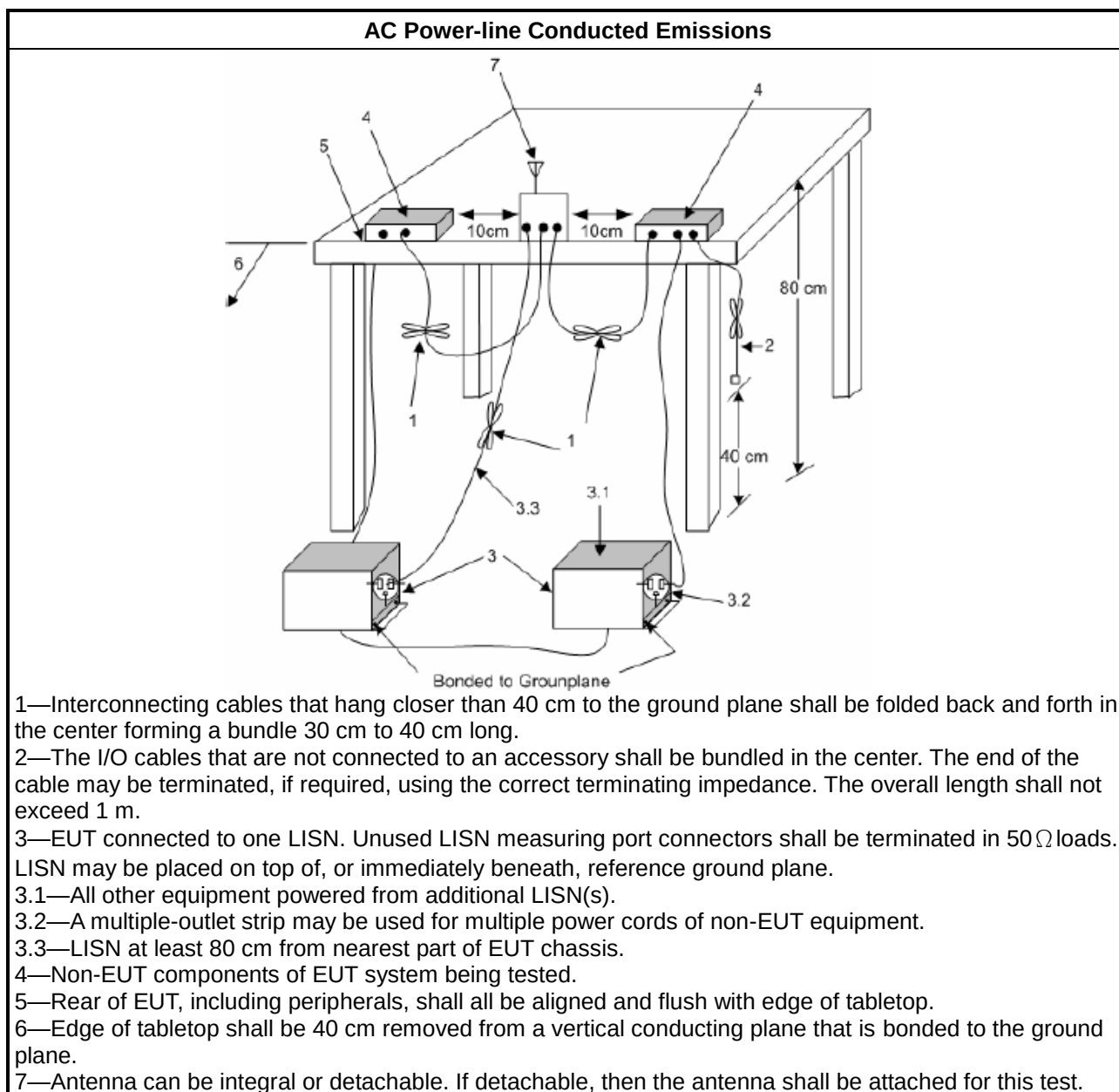
Test Method
Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup



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.

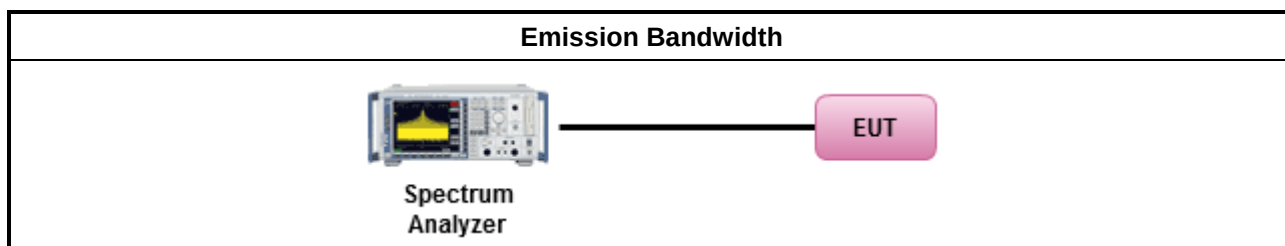
3.2.2 Measuring Instruments

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:
☒	Refer as KDB 558074, clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
☐	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

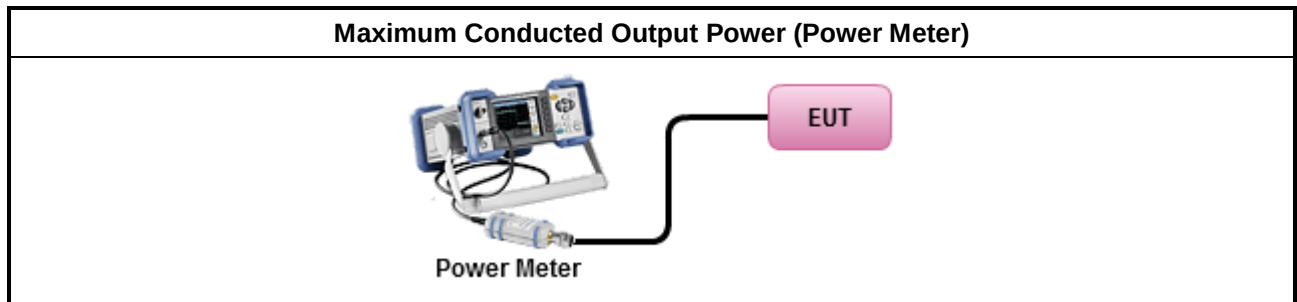
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

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

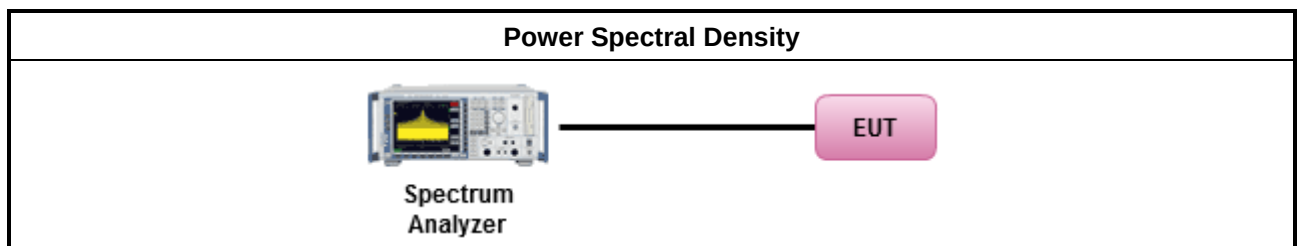
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average level.	

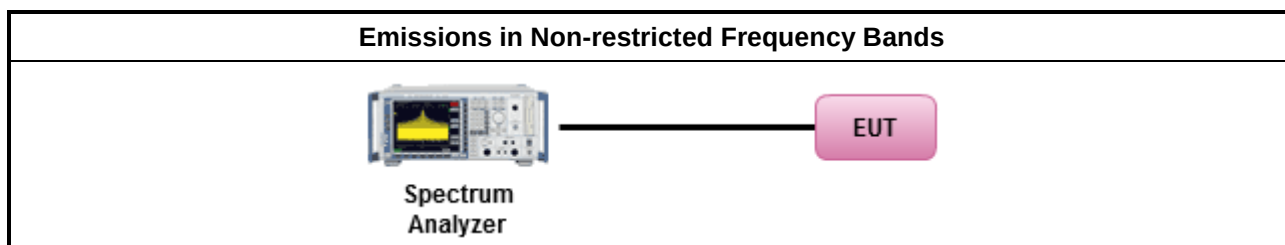
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



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

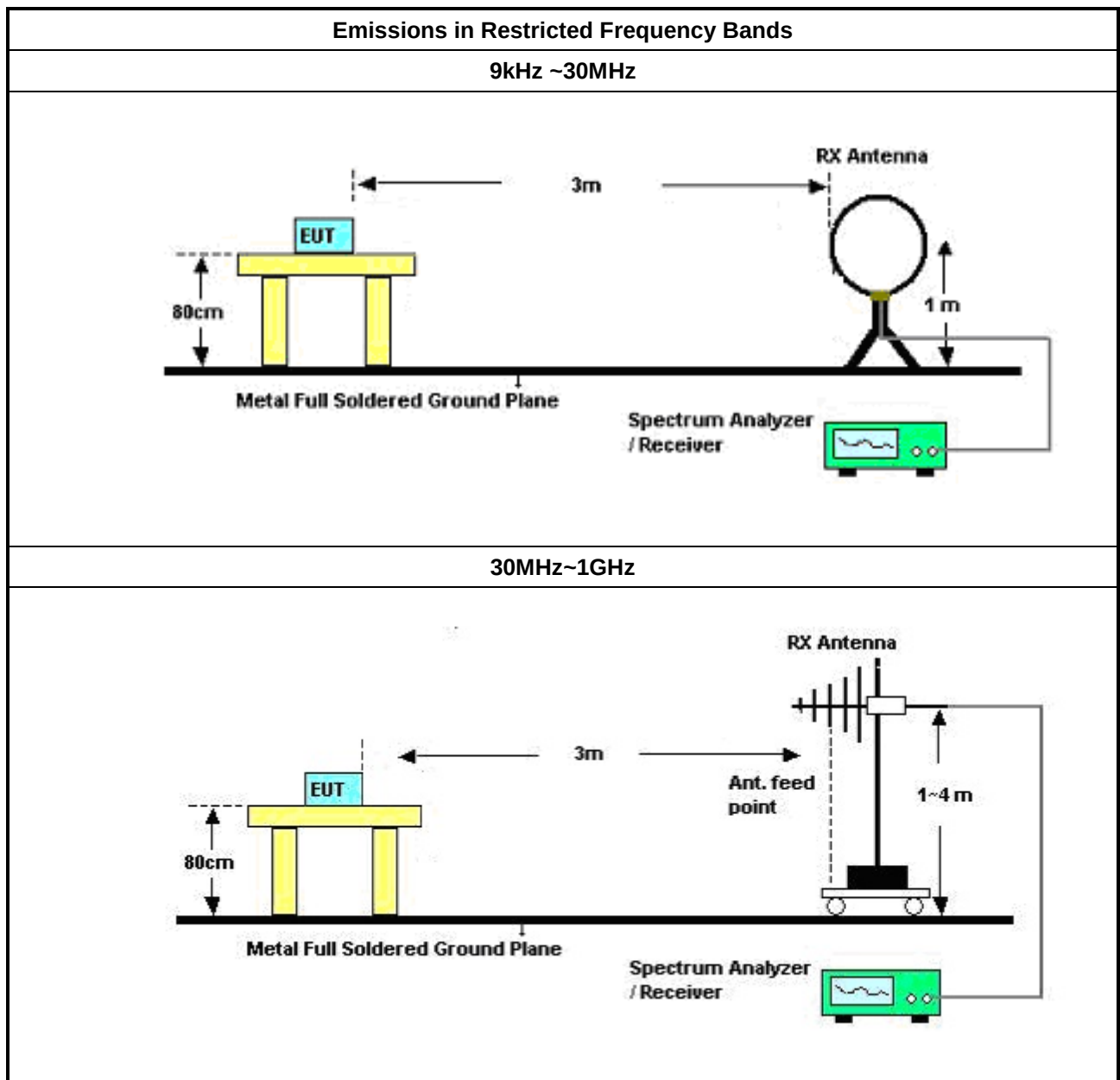
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
For the transmitter band-edge emissions shall be measured using following options below:	
	Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

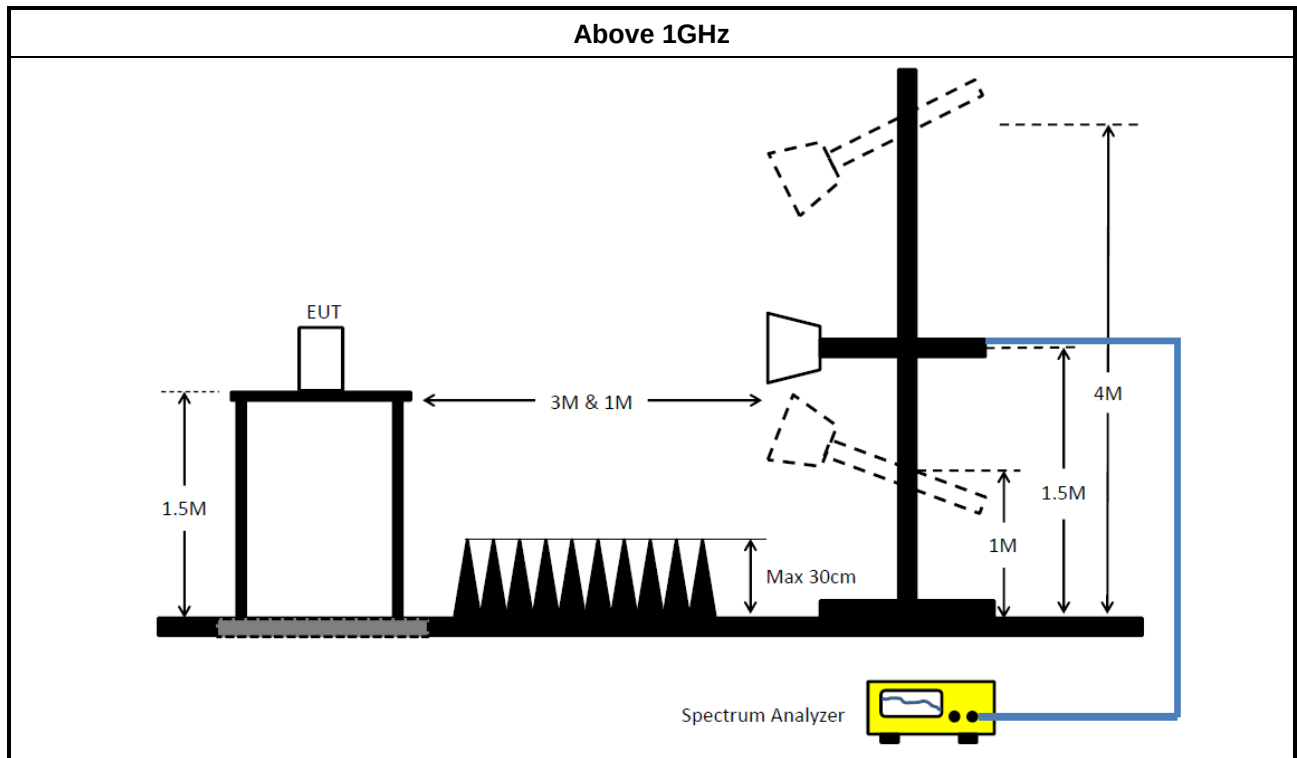
3.6.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.5 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	13/May/2022	12/May/2023
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	101013	10Hz~40GHz	01/Apr/2022	31/Mar/2023
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2022	20/Oct/2023
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	15/Feb/2023	14/Feb/2024
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	15/Feb/2023	14/Feb/2024
SENSE-15247_FS	Sporton	V5.11.1	NA	NA	NA	NA

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
Signal Analyzer	R&S	FSP 40	100305	9kHz~40GHz	21/Mar/2022	20/Mar/2023
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	28/Jun/2022	27/Jun/2023
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	02/Nov/2022	01/Nov/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	EMC1150 & WK0602	980270 & WDCB-6SI	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	18/Mar/2022	17/Mar/2023
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	08/Mar/2022	07/Mar/2023
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	18/Mar/2022	17/Mar/2023
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	30/May/2022	29/May/2023
SENSE-15247_FS	Sporton	v5.11.1	NA	NA	NA	NA
SENSE-EMI	Sporton	v5.11.2	NA	NA	NA	NA



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	4.536M	51.93	56.00	-4.07	Neutral
Mode 2	Pass	QP	4.797M	50.98	56.00	-5.02	Neutral
Mode 3	Pass	QP	163.769k	59.41	65.27	-5.86	Neutral
Mode 4	Pass	QP	4.609M	48.45	56.00	-7.55	Line
Mode 5	Pass	QP	4.464M	50.93	56.00	-5.07	Line
Mode 6	Pass	QP	4.122M	51.47	56.00	-4.53	Neutral

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	163.769k	56.16	65.27	-9.11	Line	-
Mode 1	Pass	AV	163.769k	31.42	55.27	-23.85	Line	-
Mode 1	Pass	QP	193.664k	50.56	63.88	-13.32	Line	-
Mode 1	Pass	AV	193.664k	42.24	53.88	-11.64	Line	-
Mode 1	Pass	QP	256.1k	45.73	61.56	-15.83	Line	-
Mode 1	Pass	AV	256.1k	40.89	51.56	-10.67	Line	-
Mode 1	Pass	QP	1.531M	35.91	56.00	-20.09	Line	-
Mode 1	Pass	AV	1.531M	22.36	46.00	-23.64	Line	-
Mode 1	Pass	QP	4.518M	51.62	56.00	-4.38	Line	-
Mode 1	Pass	AV	4.518M	34.29	46.00	-11.71	Line	-
Mode 1	Pass	QP	6.898M	46.42	60.00	-13.58	Line	-
Mode 1	Pass	AV	6.898M	29.08	50.00	-20.92	Line	-
Mode 1	Pass	QP	163.769k	56.31	65.27	-8.96	Neutral	-
Mode 1	Pass	AV	163.769k	31.53	55.27	-23.74	Neutral	-
Mode 1	Pass	QP	194.439k	50.19	63.84	-13.65	Neutral	-
Mode 1	Pass	AV	194.439k	41.76	53.84	-12.08	Neutral	-
Mode 1	Pass	QP	258.152k	46.34	61.49	-15.15	Neutral	-
Mode 1	Pass	AV	258.152k	41.38	51.49	-10.11	Neutral	-
Mode 1	Pass	QP	1.969M	39.70	56.00	-16.30	Neutral	-
Mode 1	Pass	AV	1.969M	25.47	46.00	-20.53	Neutral	-
Mode 1	Pass	QP	4.536M	51.93	56.00	-4.07	Neutral	-
Mode 1	Pass	AV	4.536M	35.19	46.00	-10.81	Neutral	-
Mode 1	Pass	QP	7.561M	48.70	60.00	-11.30	Neutral	-
Mode 1	Pass	AV	7.561M	35.17	50.00	-14.83	Neutral	-
Mode 2	Pass	QP	161.175k	58.20	65.41	-7.21	Line	-
Mode 2	Pass	AV	161.175k	34.64	55.41	-20.77	Line	-
Mode 2	Pass	QP	203.167k	49.30	63.48	-14.18	Line	-
Mode 2	Pass	AV	203.167k	39.20	53.48	-14.28	Line	-
Mode 2	Pass	QP	257.124k	46.81	61.53	-14.72	Line	-
Mode 2	Pass	AV	257.124k	42.05	51.53	-9.48	Line	-
Mode 2	Pass	QP	1.525M	35.76	56.00	-20.24	Line	-
Mode 2	Pass	AV	1.525M	21.85	46.00	-24.15	Line	-
Mode 2	Pass	QP	5.3M	49.24	60.00	-10.76	Line	-
Mode 2	Pass	AV	5.3M	32.25	50.00	-17.75	Line	-
Mode 2	Pass	QP	9.38M	44.06	60.00	-15.94	Line	-
Mode 2	Pass	AV	9.38M	31.40	50.00	-18.60	Line	-
Mode 2	Pass	QP	163.769k	57.36	65.27	-7.91	Neutral	-
Mode 2	Pass	AV	163.769k	32.62	55.27	-22.65	Neutral	-
Mode 2	Pass	QP	193.664k	50.72	63.88	-13.16	Neutral	-
Mode 2	Pass	AV	193.664k	43.86	53.88	-10.02	Neutral	-
Mode 2	Pass	QP	256.1k	49.36	61.56	-12.20	Neutral	-
Mode 2	Pass	AV	256.1k	43.56	51.56	-8.00	Neutral	-
Mode 2	Pass	QP	1.954M	44.47	56.00	-11.53	Neutral	-
Mode 2	Pass	AV	1.954M	26.53	46.00	-19.47	Neutral	-
Mode 2	Pass	QP	4.797M	50.98	56.00	-5.02	Neutral	-
Mode 2	Pass	AV	4.797M	33.75	46.00	-12.25	Neutral	-
Mode 2	Pass	QP	6.898M	46.78	60.00	-13.22	Neutral	-
Mode 2	Pass	AV	6.898M	30.50	50.00	-19.50	Neutral	-
Mode 3	Pass	QP	162.467k	58.92	65.33	-6.41	Line	-
Mode 3	Pass	AV	162.467k	35.10	55.33	-20.23	Line	-



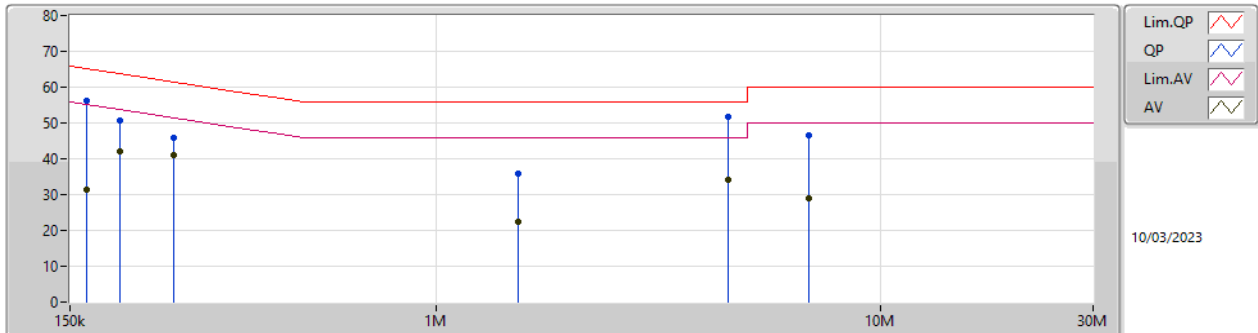
Conducted Emissions at Powerline

Appendix A

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 3	Pass	QP	211.442k	50.08	63.15	-13.07	Line	-
Mode 3	Pass	AV	211.442k	44.54	53.15	-8.61	Line	-
Mode 3	Pass	QP	256.1k	45.02	61.56	-16.54	Line	-
Mode 3	Pass	AV	256.1k	40.66	51.56	-10.90	Line	-
Mode 3	Pass	QP	1.977M	30.86	56.00	-25.14	Line	-
Mode 3	Pass	AV	1.977M	20.19	46.00	-25.81	Line	-
Mode 3	Pass	QP	4.411M	47.86	56.00	-8.14	Line	-
Mode 3	Pass	AV	4.411M	29.12	46.00	-16.88	Line	-
Mode 3	Pass	QP	7.093M	43.04	60.00	-16.96	Line	-
Mode 3	Pass	AV	7.093M	30.08	50.00	-19.92	Line	-
Mode 3	Pass	QP	163.769k	59.41	65.27	-5.86	Neutral	-
Mode 3	Pass	AV	163.769k	36.01	55.27	-19.26	Neutral	-
Mode 3	Pass	QP	216.567k	50.59	62.94	-12.35	Neutral	-
Mode 3	Pass	AV	216.567k	42.14	52.94	-10.80	Neutral	-
Mode 3	Pass	QP	257.124k	47.42	61.53	-14.11	Neutral	-
Mode 3	Pass	AV	257.124k	42.41	51.53	-9.12	Neutral	-
Mode 3	Pass	QP	1.977M	32.34	56.00	-23.66	Neutral	-
Mode 3	Pass	AV	1.977M	20.28	46.00	-25.72	Neutral	-
Mode 3	Pass	QP	4.5M	48.58	56.00	-7.42	Neutral	-
Mode 3	Pass	AV	4.5M	30.50	46.00	-15.50	Neutral	-
Mode 3	Pass	QP	7.714M	42.04	60.00	-17.96	Neutral	-
Mode 3	Pass	AV	7.714M	26.56	50.00	-23.44	Neutral	-
Mode 4	Pass	QP	161.82k	56.49	65.37	-8.88	Line	-
Mode 4	Pass	AV	161.82k	32.94	55.37	-22.43	Line	-
Mode 4	Pass	QP	192.892k	51.96	63.92	-11.96	Line	-
Mode 4	Pass	AV	192.892k	43.57	53.92	-10.35	Line	-
Mode 4	Pass	QP	258.152k	43.66	61.49	-17.83	Line	-
Mode 4	Pass	AV	258.152k	39.62	51.49	-11.87	Line	-
Mode 4	Pass	QP	1.538M	33.91	56.00	-22.09	Line	-
Mode 4	Pass	AV	1.538M	21.45	46.00	-24.55	Line	-
Mode 4	Pass	QP	4.609M	48.45	56.00	-7.55	Line	-
Mode 4	Pass	AV	4.609M	27.29	46.00	-18.71	Line	-
Mode 4	Pass	QP	8.255M	45.13	60.00	-14.87	Line	-
Mode 4	Pass	AV	8.255M	29.83	50.00	-20.17	Line	-
Mode 4	Pass	QP	161.82k	56.95	65.37	-8.42	Neutral	-
Mode 4	Pass	AV	161.82k	32.83	55.37	-22.54	Neutral	-
Mode 4	Pass	QP	194.439k	50.85	63.84	-12.99	Neutral	-
Mode 4	Pass	AV	194.439k	41.80	53.84	-12.04	Neutral	-
Mode 4	Pass	QP	257.124k	46.66	61.53	-14.87	Neutral	-
Mode 4	Pass	AV	257.124k	41.64	51.53	-9.89	Neutral	-
Mode 4	Pass	QP	1.985M	34.59	56.00	-21.41	Neutral	-
Mode 4	Pass	AV	1.985M	21.90	46.00	-24.10	Neutral	-
Mode 4	Pass	QP	4.74M	48.45	56.00	-7.55	Neutral	-
Mode 4	Pass	AV	4.74M	26.79	46.00	-19.21	Neutral	-
Mode 4	Pass	QP	7.622M	50.42	60.00	-9.58	Neutral	-
Mode 4	Pass	AV	7.622M	36.41	50.00	-13.59	Neutral	-
Mode 5	Pass	QP	161.82k	58.01	65.37	-7.36	Line	-
Mode 5	Pass	AV	161.82k	33.95	55.37	-21.42	Line	-
Mode 5	Pass	QP	192.892k	52.01	63.92	-11.91	Line	-
Mode 5	Pass	AV	192.892k	44.42	53.92	-9.50	Line	-

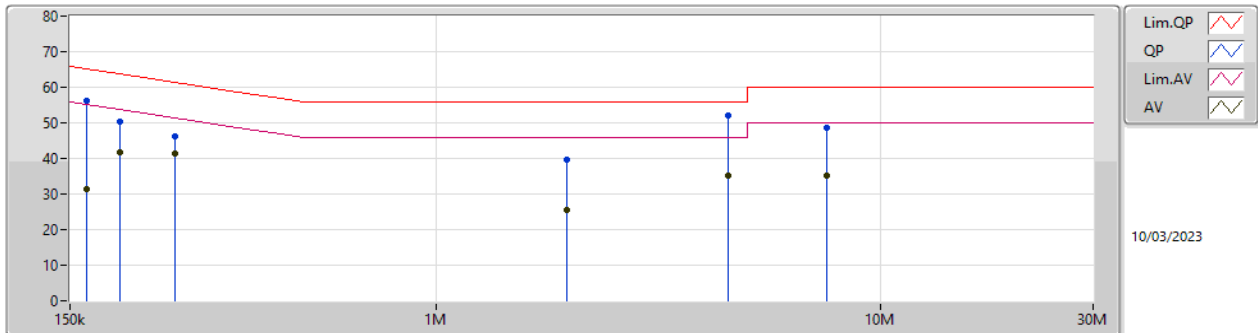
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 5	Pass	QP	257.124k	47.05	61.53	-14.48	Line	-
Mode 5	Pass	AV	257.124k	42.20	51.53	-9.33	Line	-
Mode 5	Pass	QP	1.531M	34.15	56.00	-21.85	Line	-
Mode 5	Pass	AV	1.531M	20.85	46.00	-25.15	Line	-
Mode 5	Pass	QP	4.464M	50.93	56.00	-5.07	Line	-
Mode 5	Pass	AV	4.464M	34.09	46.00	-11.91	Line	-
Mode 5	Pass	QP	7.996M	46.59	60.00	-13.41	Line	-
Mode 5	Pass	AV	7.996M	32.37	50.00	-17.63	Line	-
Mode 5	Pass	QP	162.467k	58.02	65.33	-7.31	Neutral	-
Mode 5	Pass	AV	162.467k	33.64	55.33	-21.69	Neutral	-
Mode 5	Pass	QP	193.664k	50.80	63.88	-13.08	Neutral	-
Mode 5	Pass	AV	193.664k	43.86	53.88	-10.02	Neutral	-
Mode 5	Pass	QP	255.079k	48.54	61.58	-13.04	Neutral	-
Mode 5	Pass	AV	255.079k	42.76	51.58	-8.82	Neutral	-
Mode 5	Pass	QP	1.086M	49.13	56.00	-6.87	Neutral	-
Mode 5	Pass	AV	1.086M	30.05	46.00	-15.95	Neutral	-
Mode 5	Pass	QP	4.341M	50.06	56.00	-5.94	Neutral	-
Mode 5	Pass	AV	4.341M	28.68	46.00	-17.32	Neutral	-
Mode 5	Pass	QP	8.8M	46.26	60.00	-13.74	Neutral	-
Mode 5	Pass	AV	8.8M	33.44	50.00	-16.56	Neutral	-
Mode 6	Pass	QP	162.467k	59.40	65.33	-5.93	Line	-
Mode 6	Pass	AV	162.467k	35.86	55.33	-19.47	Line	-
Mode 6	Pass	QP	212.287k	50.02	63.11	-13.09	Line	-
Mode 6	Pass	AV	212.287k	44.77	53.11	-8.34	Line	-
Mode 6	Pass	QP	256.1k	45.16	61.56	-16.40	Line	-
Mode 6	Pass	AV	256.1k	41.18	51.56	-10.38	Line	-
Mode 6	Pass	QP	1.117M	23.53	56.00	-32.47	Line	-
Mode 6	Pass	AV	1.117M	16.94	46.00	-29.06	Line	-
Mode 6	Pass	QP	3.627M	50.46	56.00	-5.54	Line	-
Mode 6	Pass	AV	3.627M	31.75	46.00	-14.25	Line	-
Mode 6	Pass	QP	6.843M	43.58	60.00	-16.42	Line	-
Mode 6	Pass	AV	6.843M	27.76	50.00	-22.24	Line	-
Mode 6	Pass	QP	162.467k	60.07	65.33	-5.26	Neutral	-
Mode 6	Pass	AV	162.467k	36.79	55.33	-18.54	Neutral	-
Mode 6	Pass	QP	210.599k	49.90	63.19	-13.29	Neutral	-
Mode 6	Pass	AV	210.599k	45.03	53.19	-8.16	Neutral	-
Mode 6	Pass	QP	256.1k	47.34	61.56	-14.22	Neutral	-
Mode 6	Pass	AV	256.1k	42.53	51.56	-9.03	Neutral	-
Mode 6	Pass	QP	1.977M	31.95	56.00	-24.05	Neutral	-
Mode 6	Pass	AV	1.977M	20.73	46.00	-25.27	Neutral	-
Mode 6	Pass	QP	4.122M	51.47	56.00	-4.53	Neutral	-
Mode 6	Pass	AV	4.122M	35.43	46.00	-10.57	Neutral	-
Mode 6	Pass	QP	8.906M	40.65	60.00	-19.35	Neutral	-
Mode 6	Pass	AV	8.906M	29.12	50.00	-20.88	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	163.769k	56.16	65.27	-9.11	19.61	Line	-	36.55	9.65	0.03	9.93			
AV	163.769k	31.42	55.27	-23.85	19.61	Line	-	11.81	9.65	0.03	9.93			
QP	193.664k	50.56	63.88	-13.32	19.61	Line	-	30.95	9.65	0.03	9.93			
AV	193.664k	42.24	53.88	-11.64	19.61	Line	-	22.63	9.65	0.03	9.93			
QP	256.1k	45.73	61.56	-15.83	19.62	Line	-	26.11	9.65	0.03	9.94			
AV	256.1k	40.89	51.56	-10.67	19.62	Line	-	21.27	9.65	0.03	9.94			
QP	1.531M	35.91	56.00	-20.09	19.68	Line	-	16.23	9.67	0.07	9.94			
AV	1.531M	22.36	46.00	-23.64	19.68	Line	-	2.68	9.67	0.07	9.94			
QP	4.518M	51.62	56.00	-4.38	19.78	Line	-	31.84	9.71	0.14	9.93			
AV	4.518M	34.29	46.00	-11.71	19.78	Line	-	14.51	9.71	0.14	9.93			
QP	6.898M	46.42	60.00	-13.58	19.87	Line	-	26.55	9.76	0.16	9.95			
AV	6.898M	29.08	50.00	-20.92	19.87	Line	-	9.21	9.76	0.16	9.95			

Conducted Emissions at Powerline_Mode 1



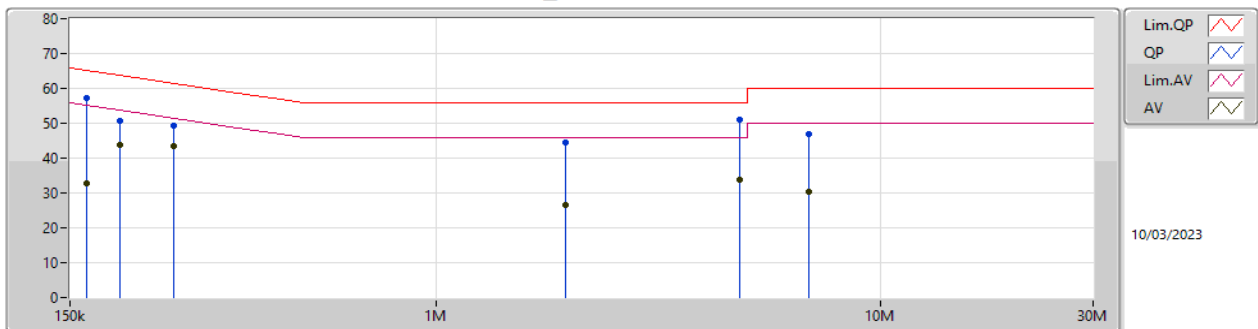
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	163.769k	56.31	65.27	-8.96	19.59	Neutral	-	36.72	9.63	0.03	9.93			
AV	163.769k	31.53	55.27	-23.74	19.59	Neutral	-	11.94	9.63	0.03	9.93			
QP	194.439k	50.19	63.84	-13.65	19.58	Neutral	-	30.61	9.62	0.03	9.93			
AV	194.439k	41.76	53.84	-12.08	19.58	Neutral	-	22.18	9.62	0.03	9.93			
QP	258.152k	46.34	61.49	-15.15	19.59	Neutral	-	26.75	9.62	0.03	9.94			
AV	258.152k	41.38	51.49	-10.11	19.59	Neutral	-	21.79	9.62	0.03	9.94			
QP	1.969M	39.70	56.00	-16.30	19.68	Neutral	-	20.02	9.66	0.08	9.94			
AV	1.969M	25.47	46.00	-20.53	19.68	Neutral	-	5.79	9.66	0.08	9.94			
QP	4.536M	51.93	56.00	-4.07	19.77	Neutral	-	32.16	9.70	0.14	9.93			
AV	4.536M	35.19	46.00	-10.81	19.77	Neutral	-	15.42	9.70	0.14	9.93			
QP	7.561M	48.70	60.00	-11.30	19.88	Neutral	-	28.82	9.77	0.16	9.95			
AV	7.561M	35.17	50.00	-14.83	19.88	Neutral	-	15.29	9.77	0.16	9.95			

Conducted Emissions at Powerline_Mode 2



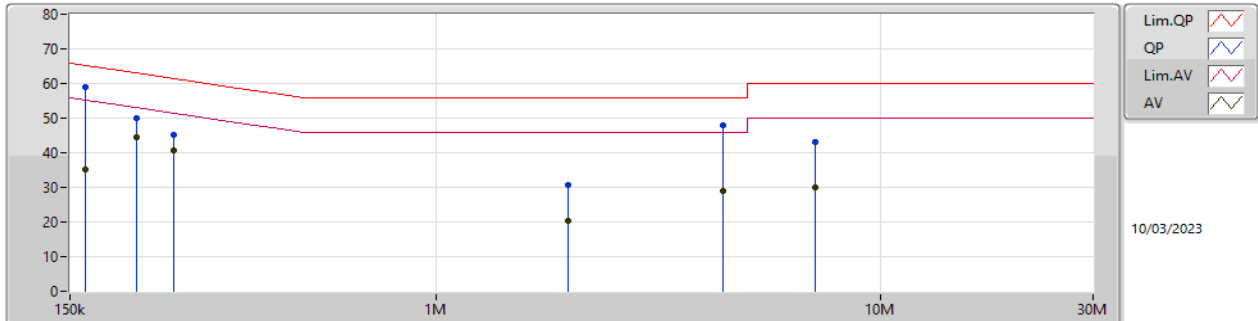
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	161.175k	58.20	65.41	-7.21	19.61	Line	-	38.59	9.65	0.03	9.93			
AV	161.175k	34.64	55.41	-20.77	19.61	Line	-	15.03	9.65	0.03	9.93			
QP	203.167k	49.30	63.48	-14.18	19.61	Line	-	29.69	9.65	0.03	9.93			
AV	203.167k	39.20	53.48	-14.28	19.61	Line	-	19.59	9.65	0.03	9.93			
QP	257.124k	46.81	61.53	-14.72	19.62	Line	-	27.19	9.65	0.03	9.94			
AV	257.124k	42.05	51.53	-9.48	19.62	Line	-	22.43	9.65	0.03	9.94			
QP	1.525M	35.76	56.00	-20.24	19.68	Line	-	16.08	9.67	0.07	9.94			
AV	1.525M	21.85	46.00	-24.15	19.68	Line	-	2.17	9.67	0.07	9.94			
QP	5.3M	49.24	60.00	-10.76	19.82	Line	-	29.42	9.73	0.15	9.94			
AV	5.3M	32.25	50.00	-17.75	19.82	Line	-	12.43	9.73	0.15	9.94			
QP	9.38M	44.06	60.00	-15.94	19.93	Line	-	24.13	9.79	0.18	9.96			
AV	9.38M	31.40	50.00	-18.60	19.93	Line	-	11.47	9.79	0.18	9.96			

Conducted Emissions at Powerline_Mode 2



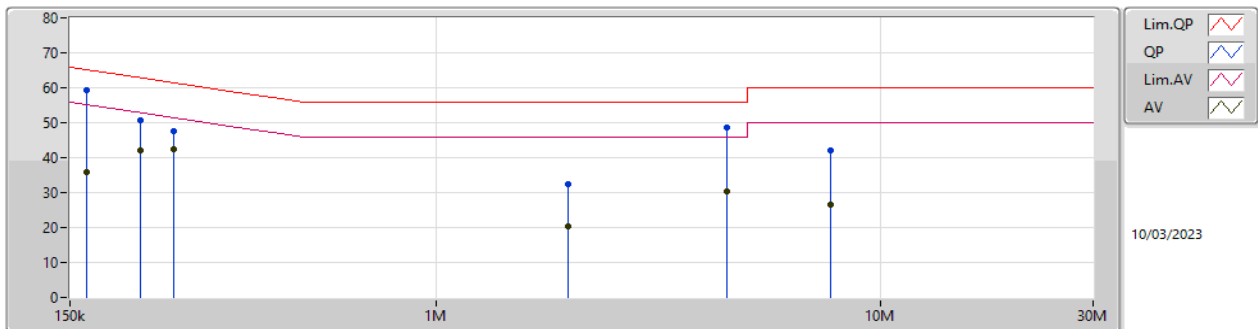
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	163.769k	57.36	65.27	-7.91	19.59	Neutral	-	37.77	9.63	0.03	9.93			
AV	163.769k	32.62	55.27	-22.65	19.59	Neutral	-	13.03	9.63	0.03	9.93			
QP	193.664k	50.72	63.88	-13.16	19.58	Neutral	-	31.14	9.62	0.03	9.93			
AV	193.664k	43.86	53.88	-10.02	19.58	Neutral	-	24.28	9.62	0.03	9.93			
QP	256.1k	49.36	61.56	-12.20	19.59	Neutral	-	29.77	9.62	0.03	9.94			
AV	256.1k	43.56	51.56	-8.00	19.59	Neutral	-	23.97	9.62	0.03	9.94			
QP	1.954M	44.47	56.00	-11.53	19.68	Neutral	-	24.79	9.66	0.08	9.94			
AV	1.954M	26.53	46.00	-19.47	19.68	Neutral	-	6.85	9.66	0.08	9.94			
QP	4.797M	50.98	56.00	-5.02	19.79	Neutral	-	31.19	9.71	0.14	9.94			
AV	4.797M	33.75	46.00	-12.25	19.79	Neutral	-	13.96	9.71	0.14	9.94			
QP	6.898M	46.78	60.00	-13.22	19.87	Neutral	-	26.91	9.76	0.16	9.95			
AV	6.898M	30.50	50.00	-19.50	19.87	Neutral	-	10.63	9.76	0.16	9.95			

Conducted Emissions at Powerline_Mode 3



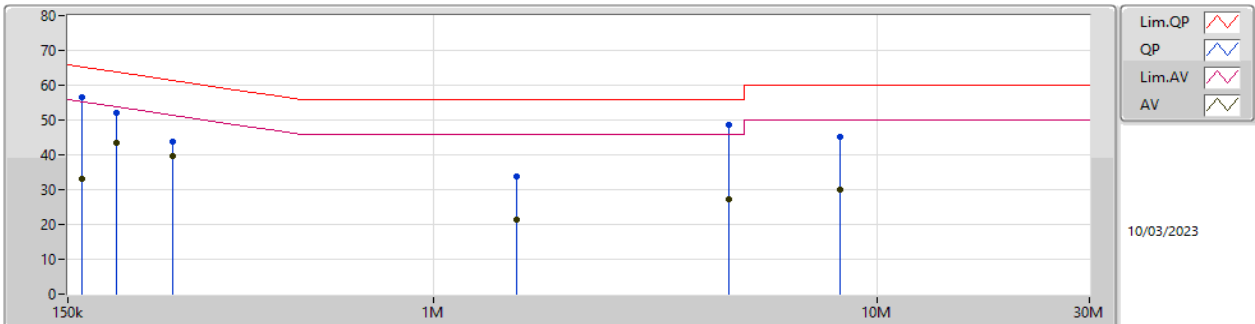
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	162.467k	58.92	65.33	-6.41	19.61	Line	-	39.31	9.65	0.03	9.93			
AV	162.467k	35.10	55.33	-20.23	19.61	Line	-	15.49	9.65	0.03	9.93			
QP	211.442k	50.08	63.15	-13.07	19.61	Line	-	30.47	9.65	0.03	9.93			
AV	211.442k	44.54	53.15	-8.61	19.61	Line	-	24.93	9.65	0.03	9.93			
QP	256.1k	45.02	61.56	-16.54	19.62	Line	-	25.40	9.65	0.03	9.94			
AV	256.1k	40.66	51.56	-10.90	19.62	Line	-	21.04	9.65	0.03	9.94			
QP	1.977M	30.86	56.00	-25.14	19.70	Line	-	11.16	9.68	0.08	9.94			
AV	1.977M	20.19	46.00	-25.81	19.70	Line	-	0.49	9.68	0.08	9.94			
QP	4.411M	47.86	56.00	-8.14	19.78	Line	-	28.08	9.71	0.14	9.93			
AV	4.411M	29.12	46.00	-16.88	19.78	Line	-	9.34	9.71	0.14	9.93			
QP	7.093M	43.04	60.00	-16.96	19.87	Line	-	23.17	9.76	0.16	9.95			
AV	7.093M	30.08	50.00	-19.92	19.87	Line	-	10.21	9.76	0.16	9.95			

Conducted Emissions at Powerline_Mode 3



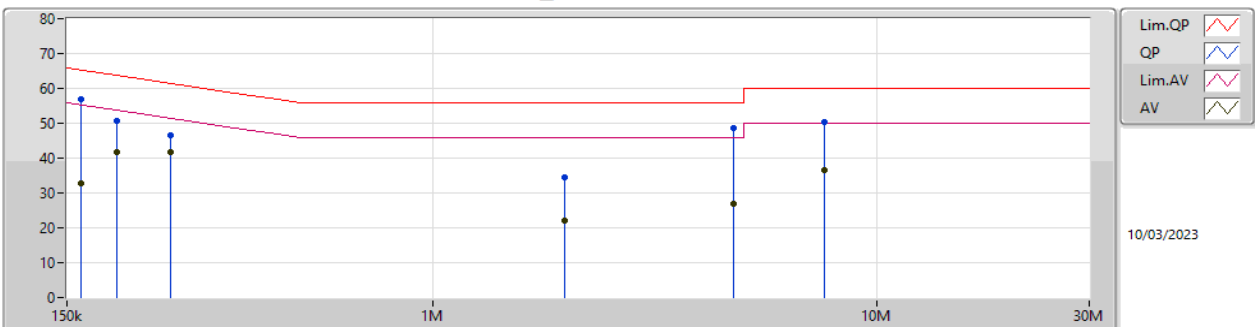
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	163.769k	59.41	65.27	-5.86	19.59	Neutral	-	39.82	9.63	0.03	9.93			
AV	163.769k	36.01	55.27	-19.26	19.59	Neutral	-	16.42	9.63	0.03	9.93			
QP	216.567k	50.59	62.94	-12.35	19.58	Neutral	-	31.01	9.62	0.03	9.93			
AV	216.567k	42.14	52.94	-10.80	19.58	Neutral	-	22.56	9.62	0.03	9.93			
QP	257.124k	47.42	61.53	-14.11	19.59	Neutral	-	27.83	9.62	0.03	9.94			
AV	257.124k	42.41	51.53	-9.12	19.59	Neutral	-	22.82	9.62	0.03	9.94			
QP	1.977M	32.34	56.00	-23.66	19.68	Neutral	-	12.66	9.66	0.08	9.94			
AV	1.977M	20.28	46.00	-25.72	19.68	Neutral	-	0.60	9.66	0.08	9.94			
QP	4.5M	48.58	56.00	-7.42	19.77	Neutral	-	28.81	9.70	0.14	9.93			
AV	4.5M	30.50	46.00	-15.50	19.77	Neutral	-	10.73	9.70	0.14	9.93			
QP	7.714M	42.04	60.00	-17.96	19.89	Neutral	-	22.15	9.77	0.17	9.95			
AV	7.714M	26.56	50.00	-23.44	19.89	Neutral	-	6.67	9.77	0.17	9.95			

Conducted Emissions at Powerline_Mode 4



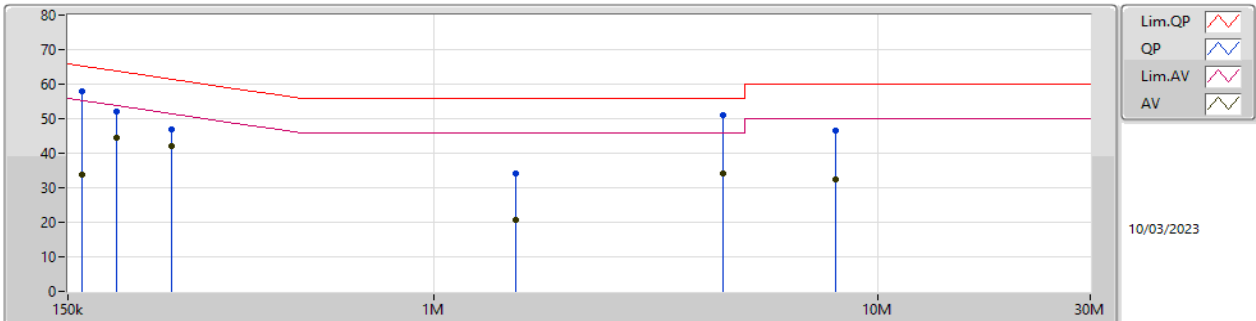
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	161.82k	56.49	65.37	-8.88	19.61	Line	-	36.88	9.65	0.03	9.93
AV	161.82k	32.94	55.37	-22.43	19.61	Line	-	13.33	9.65	0.03	9.93
QP	192.892k	51.96	63.92	-11.96	19.61	Line	-	32.35	9.65	0.03	9.93
AV	192.892k	43.57	53.92	-10.35	19.61	Line	-	23.96	9.65	0.03	9.93
QP	258.152k	43.66	61.49	-17.83	19.62	Line	-	24.04	9.65	0.03	9.94
AV	258.152k	39.62	51.49	-11.87	19.62	Line	-	20.00	9.65	0.03	9.94
QP	1.538M	33.91	56.00	-22.09	19.68	Line	-	14.23	9.67	0.07	9.94
AV	1.538M	21.45	46.00	-24.55	19.68	Line	-	1.77	9.67	0.07	9.94
QP	4.609M	48.45	56.00	-7.55	19.79	Line	-	28.66	9.72	0.14	9.93
AV	4.609M	27.29	46.00	-18.71	19.79	Line	-	7.50	9.72	0.14	9.93
QP	8.255M	45.13	60.00	-14.87	19.90	Line	-	25.23	9.78	0.17	9.95
AV	8.255M	29.83	50.00	-20.17	19.90	Line	-	9.93	9.78	0.17	9.95

Conducted Emissions at Powerline_Mode 4



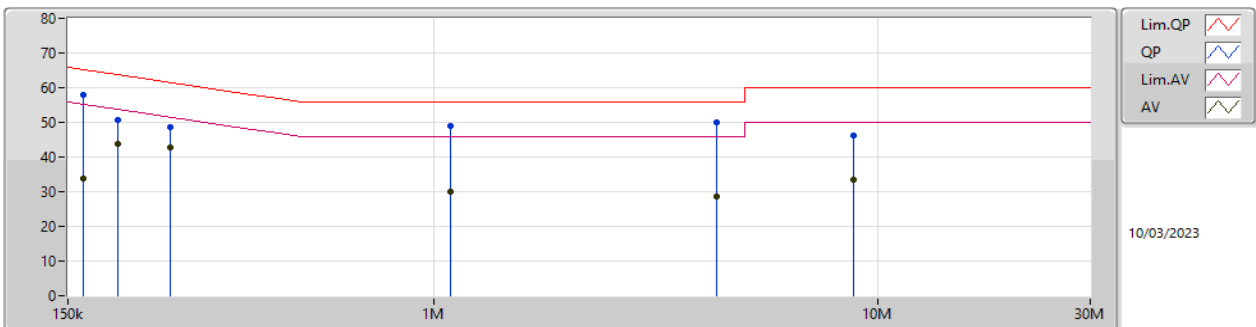
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	161.82k	56.95	65.37	-8.42	19.59	Neutral	-	37.36	9.63	0.03	9.93
AV	161.82k	32.83	55.37	-22.54	19.59	Neutral	-	13.24	9.63	0.03	9.93
QP	194.439k	50.85	63.84	-12.99	19.58	Neutral	-	31.27	9.62	0.03	9.93
AV	194.439k	41.80	53.84	-12.04	19.58	Neutral	-	22.22	9.62	0.03	9.93
QP	257.124k	46.66	61.53	-14.87	19.59	Neutral	-	27.07	9.62	0.03	9.94
AV	257.124k	41.64	51.53	-9.89	19.59	Neutral	-	22.05	9.62	0.03	9.94
QP	1.985M	34.59	56.00	-21.41	19.68	Neutral	-	14.91	9.66	0.08	9.94
AV	1.985M	21.90	46.00	-24.10	19.68	Neutral	-	2.22	9.66	0.08	9.94
QP	4.74M	48.45	56.00	-7.55	19.78	Neutral	-	28.67	9.70	0.14	9.94
AV	4.74M	26.79	46.00	-19.21	19.78	Neutral	-	7.01	9.70	0.14	9.94
QP	7.622M	50.42	60.00	-9.58	19.89	Neutral	-	30.53	9.77	0.17	9.95
AV	7.622M	36.41	50.00	-13.59	19.89	Neutral	-	16.52	9.77	0.17	9.95

Conducted Emissions at Powerline_Mode 5



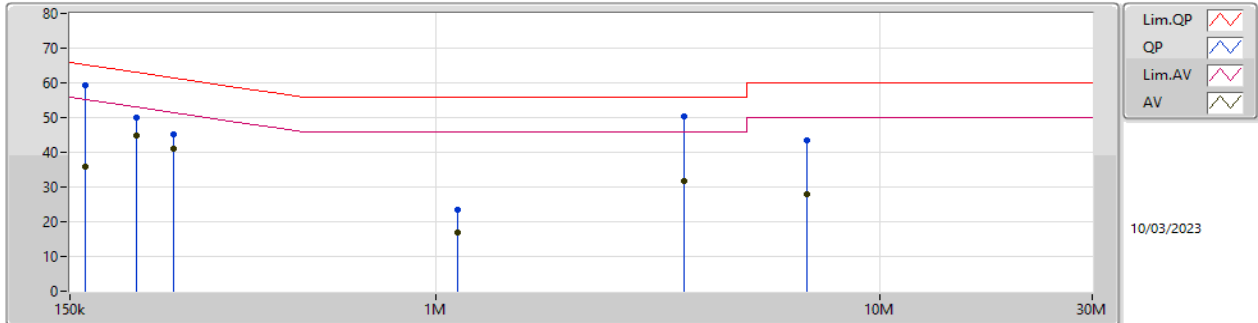
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)				
QP	161.82k	58.01	65.37	-7.36	19.61	Line	-	38.40	9.65	0.03	9.93				
AV	161.82k	33.95	55.37	-21.42	19.61	Line	-	14.34	9.65	0.03	9.93				
QP	192.892k	52.01	63.92	-11.91	19.61	Line	-	32.40	9.65	0.03	9.93				
AV	192.892k	44.42	53.92	-9.50	19.61	Line	-	24.81	9.65	0.03	9.93				
QP	257.124k	47.05	61.53	-14.48	19.62	Line	-	27.43	9.65	0.03	9.94				
AV	257.124k	42.20	51.53	-9.33	19.62	Line	-	22.58	9.65	0.03	9.94				
QP	1.531M	34.15	56.00	-21.85	19.68	Line	-	14.47	9.67	0.07	9.94				
AV	1.531M	20.85	46.00	-25.15	19.68	Line	-	1.17	9.67	0.07	9.94				
QP	4.464M	50.93	56.00	-5.07	19.78	Line	-	31.15	9.71	0.14	9.93				
AV	4.464M	34.09	46.00	-11.91	19.78	Line	-	14.31	9.71	0.14	9.93				
QP	7.996M	46.59	60.00	-13.41	19.90	Line	-	26.69	9.78	0.17	9.95				
AV	7.996M	32.37	50.00	-17.63	19.90	Line	-	12.47	9.78	0.17	9.95				

Conducted Emissions at Powerline_Mode 5



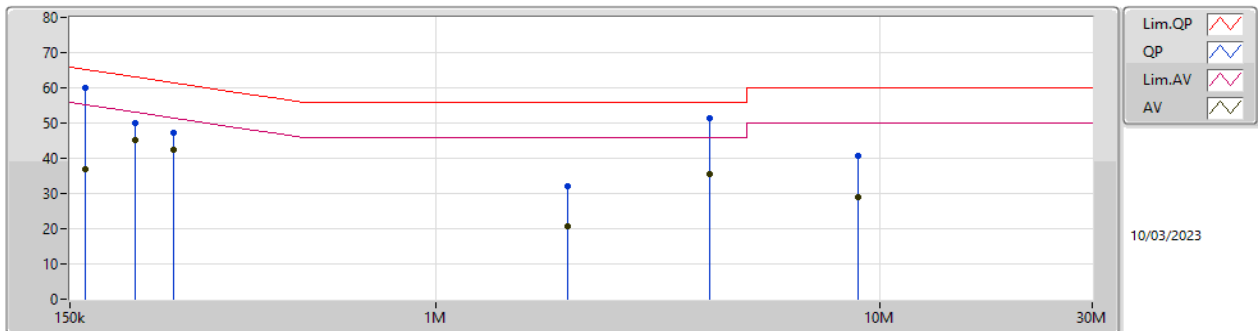
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)				
QP	162.467k	58.02	65.33	-7.31	19.59	Neutral	-	38.43	9.63	0.03	9.93				
AV	162.467k	33.64	55.33	-21.69	19.59	Neutral	-	14.05	9.63	0.03	9.93				
QP	193.664k	50.80	63.88	-13.08	19.58	Neutral	-	31.22	9.62	0.03	9.93				
AV	193.664k	43.86	53.88	-10.02	19.58	Neutral	-	24.28	9.62	0.03	9.93				
QP	255.079k	48.54	61.58	-13.04	19.59	Neutral	-	28.95	9.62	0.03	9.94				
AV	255.079k	42.76	51.58	-8.82	19.59	Neutral	-	23.17	9.62	0.03	9.94				
QP	1.086M	49.13	56.00	-6.87	19.64	Neutral	-	29.49	9.65	0.05	9.94				
AV	1.086M	30.05	46.00	-15.95	19.64	Neutral	-	10.41	9.65	0.05	9.94				
QP	4.341M	50.06	56.00	-5.94	19.75	Neutral	-	30.31	9.69	0.13	9.93				
AV	4.341M	28.68	46.00	-17.32	19.75	Neutral	-	8.93	9.69	0.13	9.93				
QP	8.8M	46.26	60.00	-13.74	19.92	Neutral	-	26.34	9.79	0.17	9.96				
AV	8.8M	33.44	50.00	-16.56	19.92	Neutral	-	13.52	9.79	0.17	9.96				

Conducted Emissions at Powerline_Mode 6



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	162.467k	59.40	65.33	-5.93	19.61	Line	-	39.79	9.65	0.03	9.93			
AV	162.467k	35.86	55.33	-19.47	19.61	Line	-	16.25	9.65	0.03	9.93			
QP	212.287k	50.02	63.11	-13.09	19.61	Line	-	30.41	9.65	0.03	9.93			
AV	212.287k	44.77	53.11	-8.34	19.61	Line	-	25.16	9.65	0.03	9.93			
QP	256.1k	45.16	61.56	-16.40	19.62	Line	-	25.54	9.65	0.03	9.94			
AV	256.1k	41.18	51.56	-10.38	19.62	Line	-	21.56	9.65	0.03	9.94			
QP	1.117M	23.53	56.00	-32.47	19.64	Line	-	3.89	9.65	0.05	9.94			
AV	1.117M	16.94	46.00	-29.06	19.64	Line	-	-2.70	9.65	0.05	9.94			
QP	3.627M	50.46	56.00	-5.54	19.75	Line	-	30.71	9.70	0.12	9.93			
AV	3.627M	31.75	46.00	-14.25	19.75	Line	-	12.00	9.70	0.12	9.93			
QP	6.843M	43.58	60.00	-16.42	19.87	Line	-	23.71	9.76	0.16	9.95			
AV	6.843M	27.76	50.00	-22.24	19.87	Line	-	7.89	9.76	0.16	9.95			

Conducted Emissions at Powerline_Mode 6



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	162.467k	60.07	65.33	-5.26	19.59	Neutral	-	40.48	9.63	0.03	9.93			
AV	162.467k	36.79	55.33	-18.54	19.59	Neutral	-	17.20	9.63	0.03	9.93			
QP	210.599k	49.90	63.19	-13.29	19.58	Neutral	-	30.32	9.62	0.03	9.93			
AV	210.599k	45.03	53.19	-8.16	19.58	Neutral	-	25.45	9.62	0.03	9.93			
QP	256.1k	47.34	61.56	-14.22	19.59	Neutral	-	27.75	9.62	0.03	9.94			
AV	256.1k	42.53	51.56	-9.03	19.59	Neutral	-	22.94	9.62	0.03	9.94			
QP	1.977M	31.95	56.00	-24.05	19.68	Neutral	-	12.27	9.66	0.08	9.94			
AV	1.977M	20.73	46.00	-25.27	19.68	Neutral	-	1.05	9.66	0.08	9.94			
QP	4.122M	51.47	56.00	-4.53	19.74	Neutral	-	31.73	9.68	0.13	9.93			
AV	4.122M	35.43	46.00	-10.57	19.74	Neutral	-	15.69	9.68	0.13	9.93			
QP	8.906M	40.65	60.00	-19.35	19.92	Neutral	-	20.73	9.79	0.17	9.96			
AV	8.906M	29.12	50.00	-20.88	19.92	Neutral	-	9.20	9.79	0.17	9.96			

**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)	732.5k	1.062M	1M06F1D	698.75k	1.058M
BT-LE(2Mbps)	1.443M	2.084M	2M08F1D	1.383M	2.069M
BT-LE(125kbps)	745k	1.084M	1M08F1D	710k	1.068M
BT-LE(500kbps)	700k	1.056M	1M06F1D	680k	1.047M

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

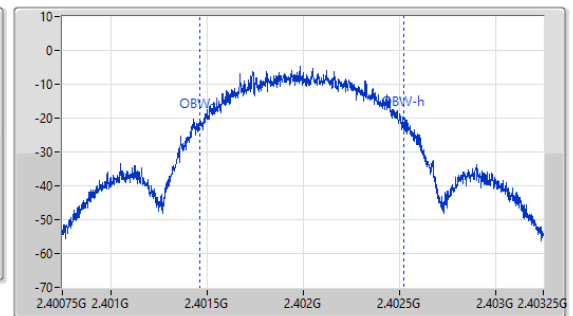
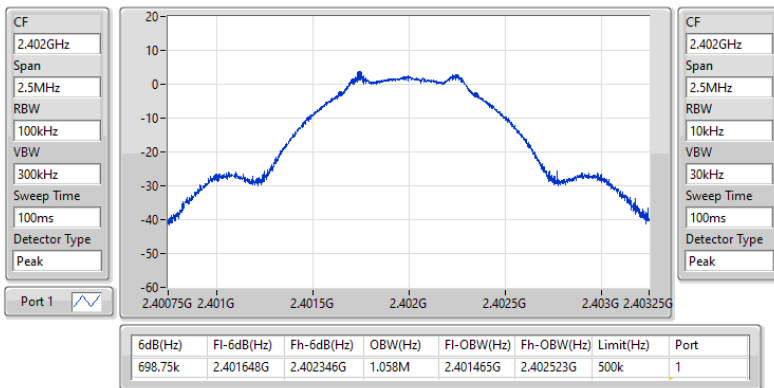
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	698.75k	1.058M
2440MHz	Pass	500k	725k	1.062M
2480MHz	Pass	500k	732.5k	1.059M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.383M	2.069M
2440MHz	Pass	500k	1.443M	2.071M
2480MHz	Pass	500k	1.443M	2.084M
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	500k	710k	1.068M
2440MHz	Pass	500k	745k	1.084M
2480MHz	Pass	500k	726.25k	1.074M
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	500k	680k	1.047M
2440MHz	Pass	500k	700k	1.056M
2480MHz	Pass	500k	698.75k	1.054M

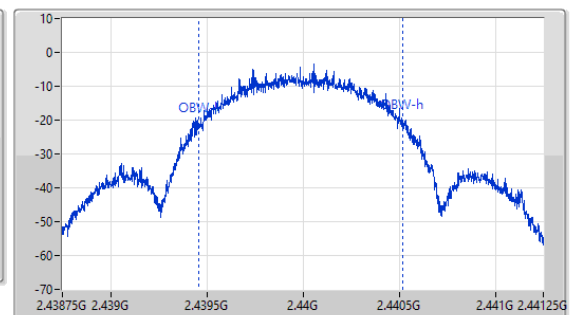
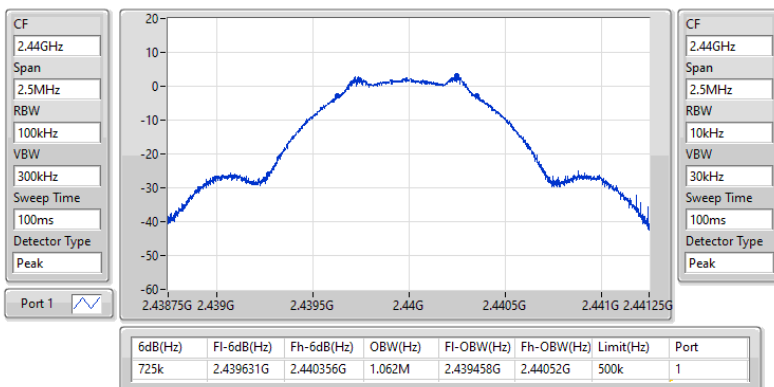
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-LE(1Mbps)
EBW-DTS
2402MHz

01/03/2023


2.4-2.4835GHz_BT-LE(1Mbps)
EBW-DTS
2440MHz

01/03/2023

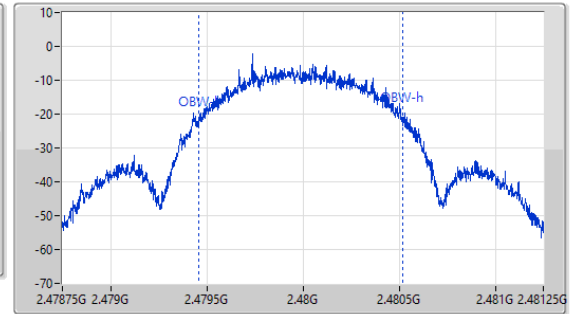
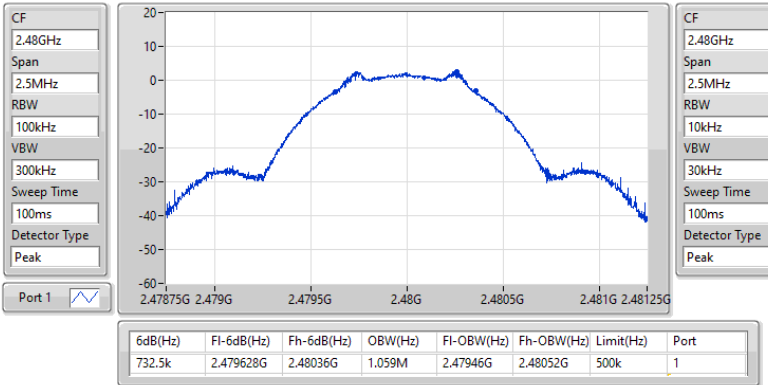


2.4-2.4835GHz_BT-LE(1Mbps)

EBW-DTS

2480MHz

01/03/2023

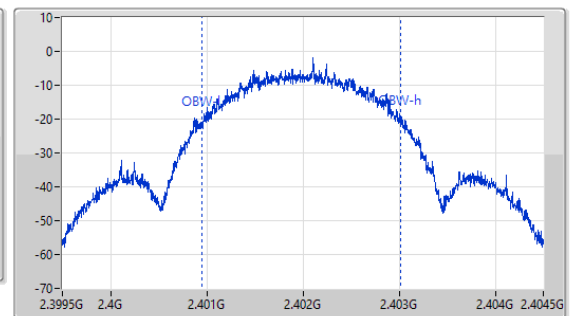
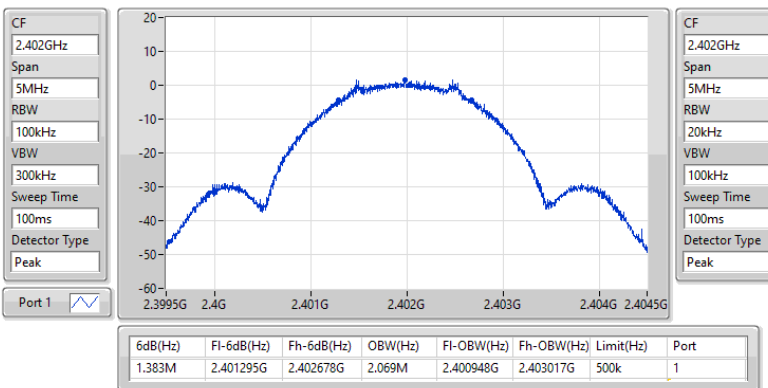


2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2402MHz

01/03/2023

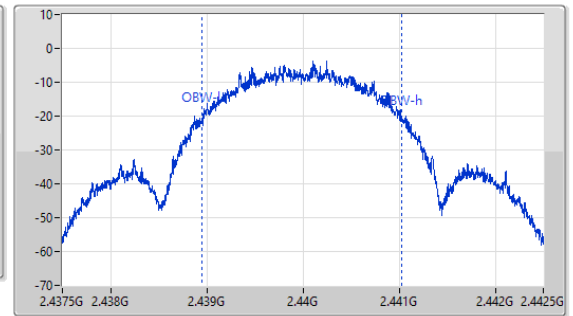
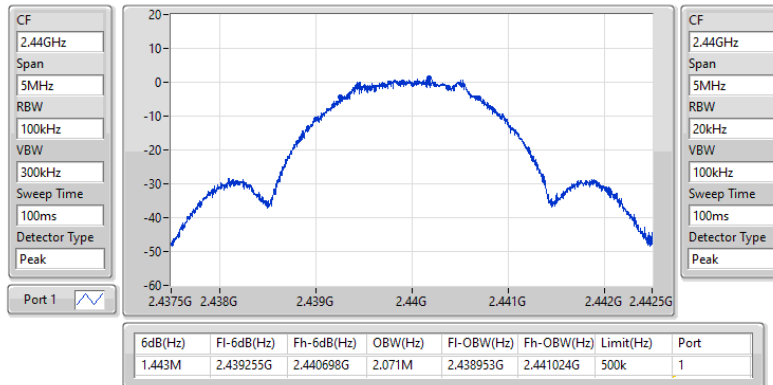


2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2440MHz

01/03/2023

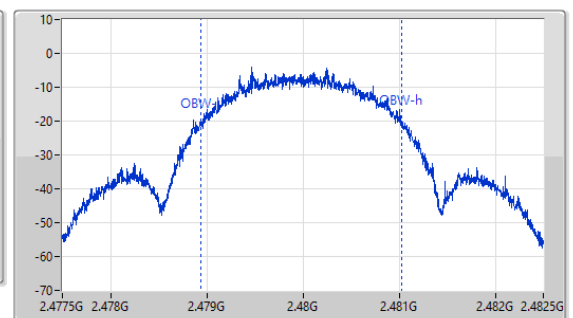
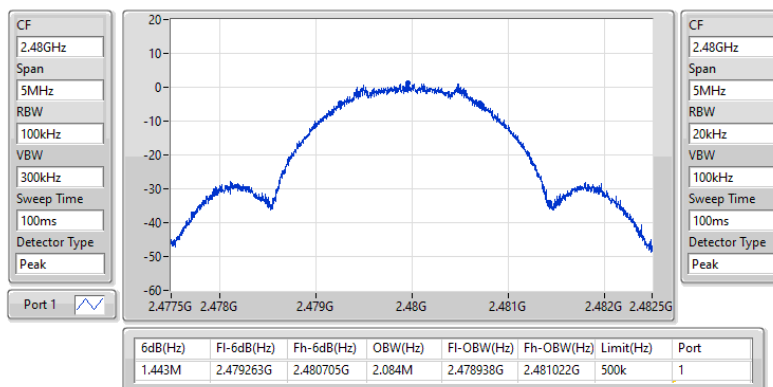


2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2480MHz

01/03/2023

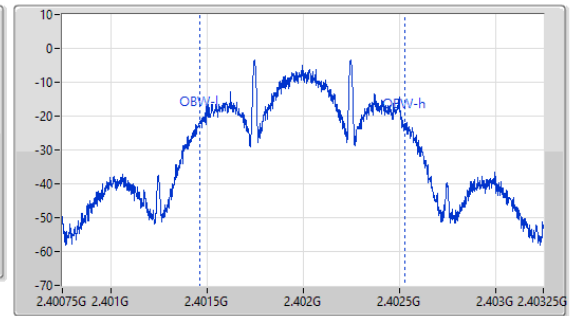
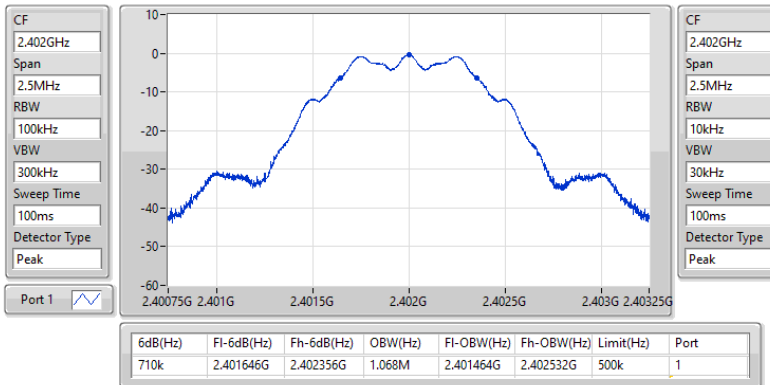


2.4-2.4835GHz_BT-LE(125kbps)

EBW-DTS

2402MHz

09/03/2023

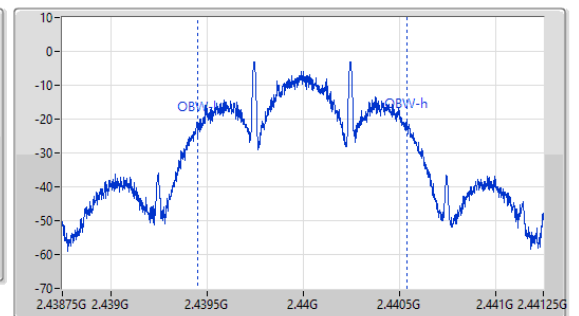
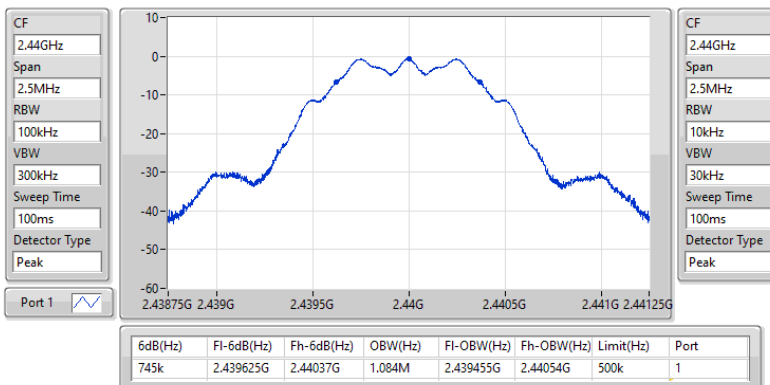


2.4-2.4835GHz_BT-LE(125kbps)

EBW-DTS

2440MHz

09/03/2023

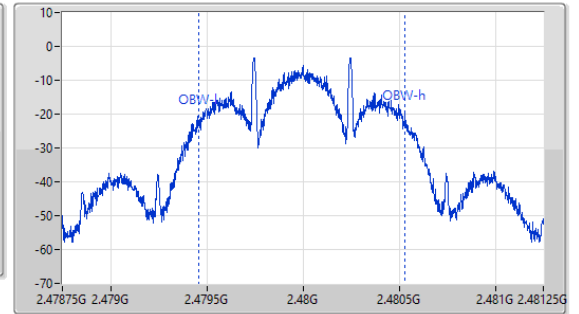
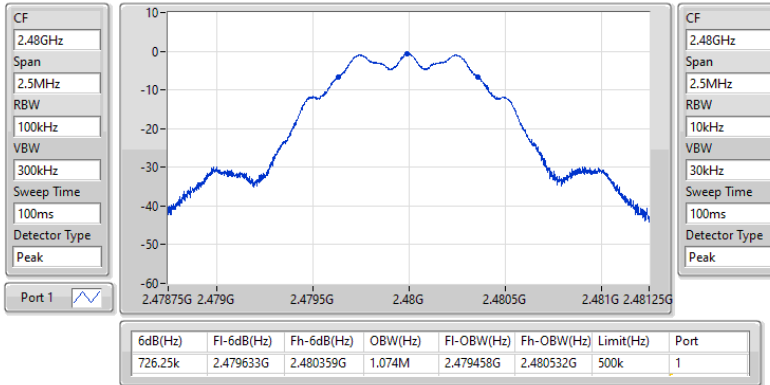


2.4-2.4835GHz_BT-LE(125kbps)

EBW-DTS

2480MHz

09/03/2023

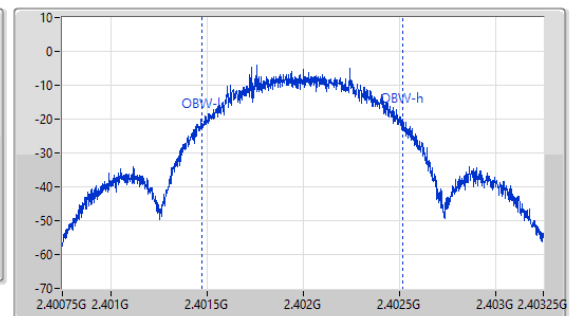
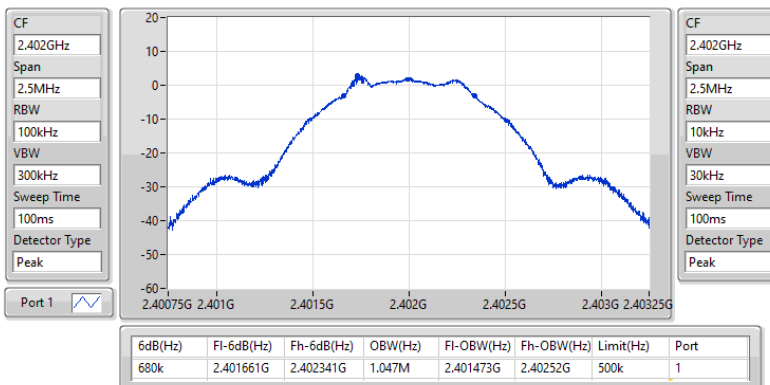


2.4-2.4835GHz_BT-LE(500kbps)

EBW-DTS

2402MHz

09/03/2023

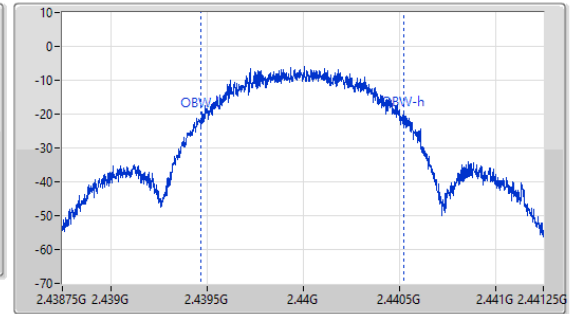
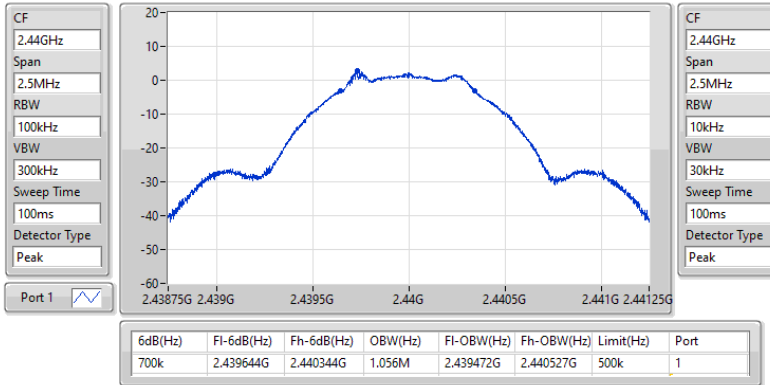


2.4-2.4835GHz_BT-LE(500kbps)

EBW-DTS

2440MHz

09/03/2023

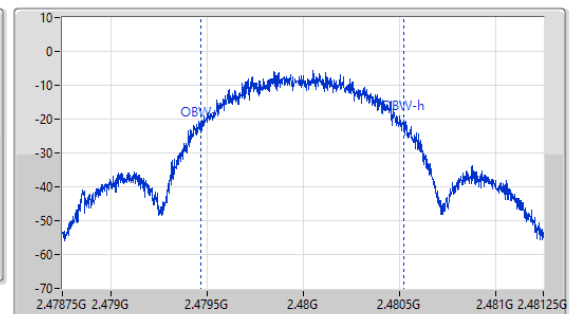
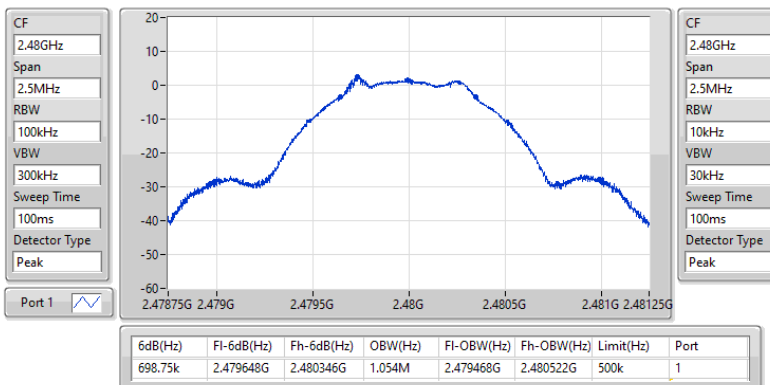


2.4-2.4835GHz_BT-LE(500kbps)

EBW-DTS

2480MHz

09/03/2023





Summary

Mode	Total Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	3.14	0.00206
BT-LE(2Mbps)	3.14	0.00206
BT-LE(125kbps)	2.55	0.00180
BT-LE(500kbps)	2.57	0.00181

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.78	3.14	30.00
2440MHz	Pass	1.78	3.13	30.00
2480MHz	Pass	1.78	2.94	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	1.78	3.14	30.00
2440MHz	Pass	1.78	3.09	30.00
2480MHz	Pass	1.78	2.92	30.00
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	1.78	2.55	30.00
2440MHz	Pass	1.78	2.48	30.00
2480MHz	Pass	1.78	2.31	30.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	1.78	2.57	30.00
2440MHz	Pass	1.78	2.48	30.00
2480MHz	Pass	1.78	2.35	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-8.66
BT-LE(2Mbps)	-12.54
BT-LE(125kbps)	-3.24
BT-LE(500kbps)	-10.40

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.78	-8.66	8.00
2440MHz	Pass	1.78	-10.57	8.00
2480MHz	Pass	1.78	-11.22	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	1.78	-13.70	8.00
2440MHz	Pass	1.78	-14.44	8.00
2480MHz	Pass	1.78	-12.54	8.00
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	1.78	-3.40	8.00
2440MHz	Pass	1.78	-3.24	8.00
2480MHz	Pass	1.78	-3.54	8.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	1.78	-11.85	8.00
2440MHz	Pass	1.78	-11.57	8.00
2480MHz	Pass	1.78	-10.40	8.00

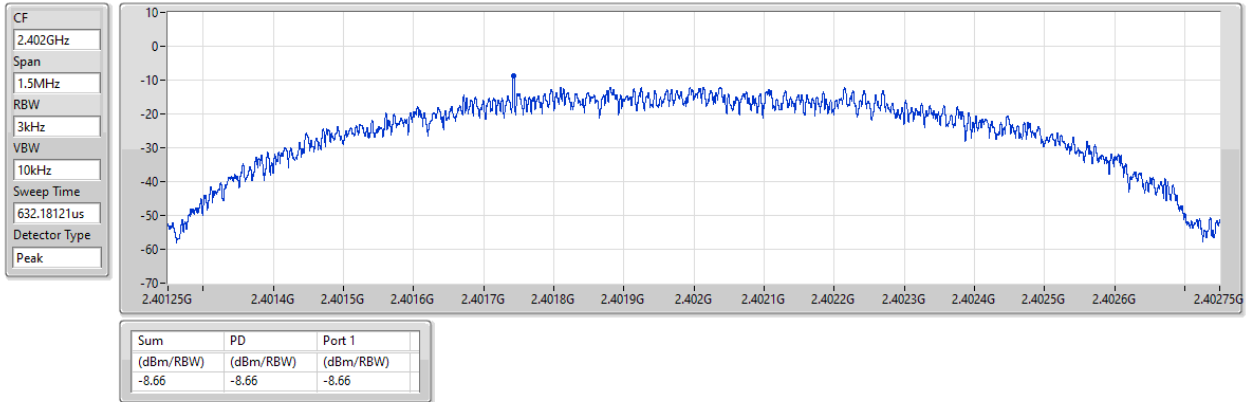
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2402MHz

01/03/2023

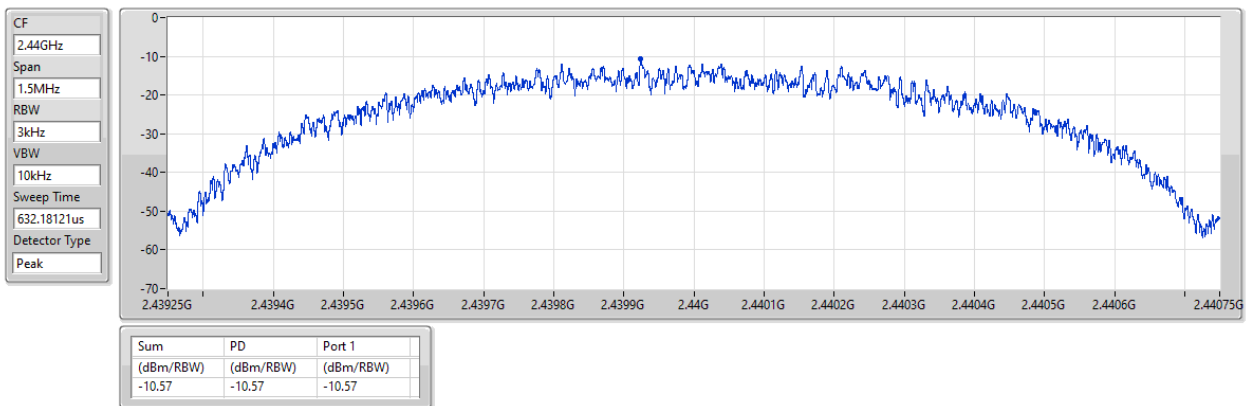


2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2440MHz

01/03/2023



2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2480MHz

01/03/2023

CF
2.48GHz

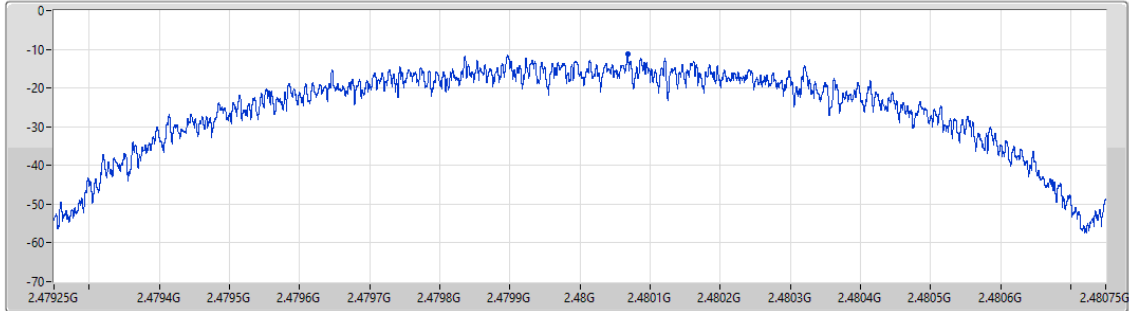
Span
1.5MHz

RBW
3kHz

VBW
10kHz

Sweep Time
632.18121us

Detector Type
Peak



Sum (dBm/RBW)	PD (dBm/RBW)	Port 1 (dBm/RBW)
-11.22	-11.22	-11.22

2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2402MHz

01/03/2023

CF
2.402GHz

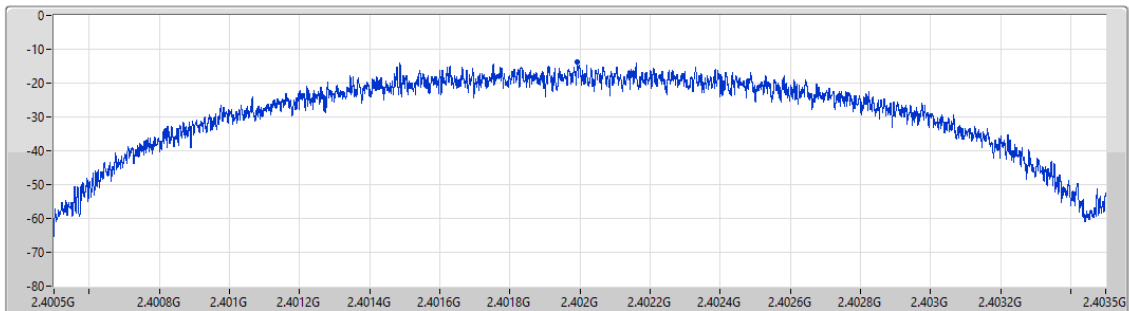
Span
3MHz

RBW
3kHz

VBW
10kHz

Sweep Time
632.01845us

Detector Type
Peak



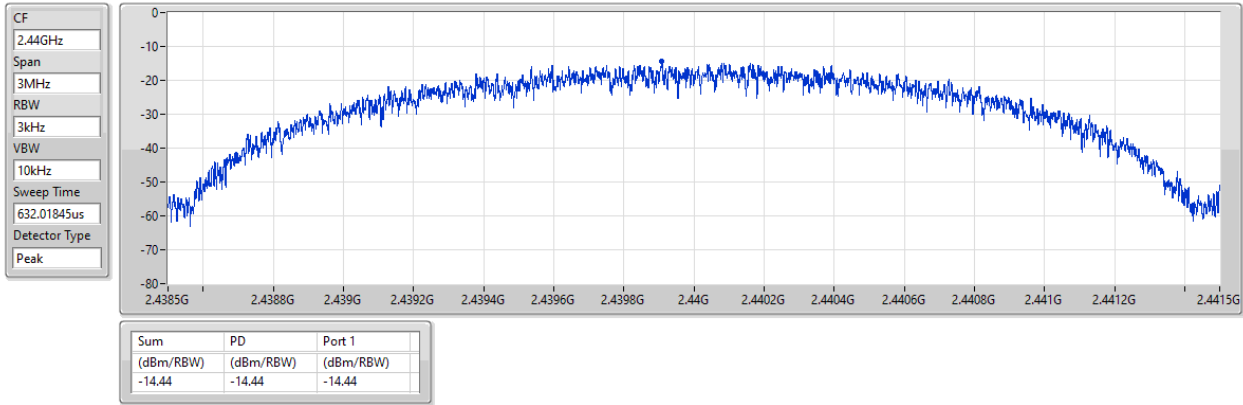
Sum (dBm/RBW)	PD (dBm/RBW)	Port 1 (dBm/RBW)
-13.70	-13.70	-13.70

2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2440MHz

01/03/2023

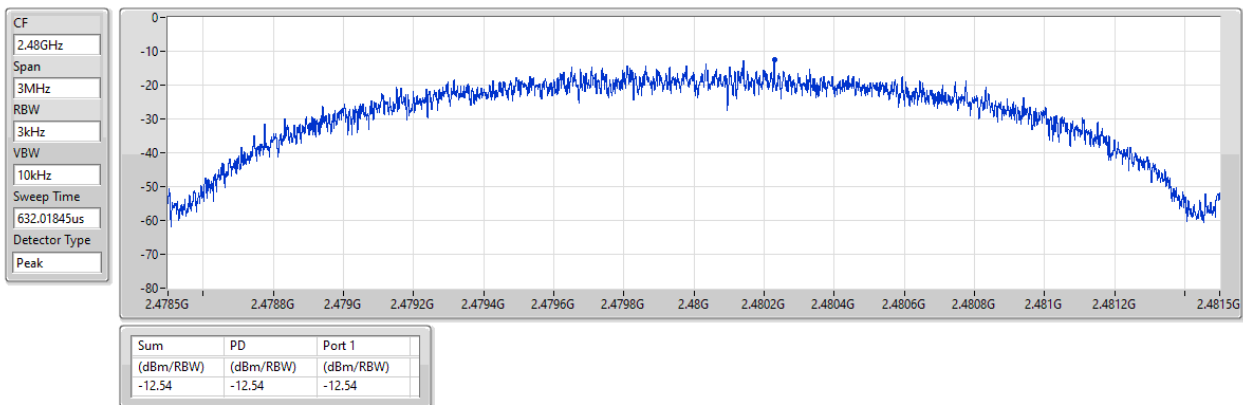


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2480MHz

01/03/2023

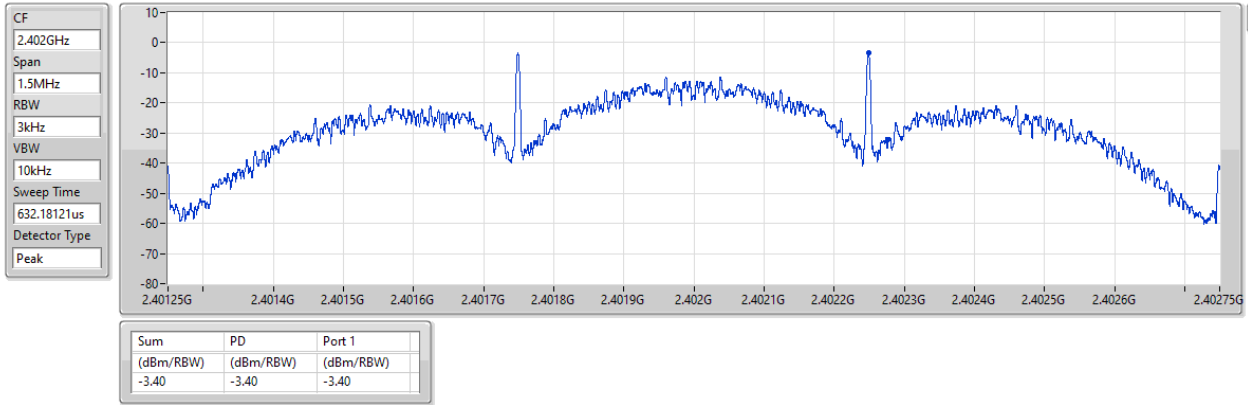


2.4-2.4835GHz_BT-LE(125kbps)

PSD

2402MHz

09/03/2023

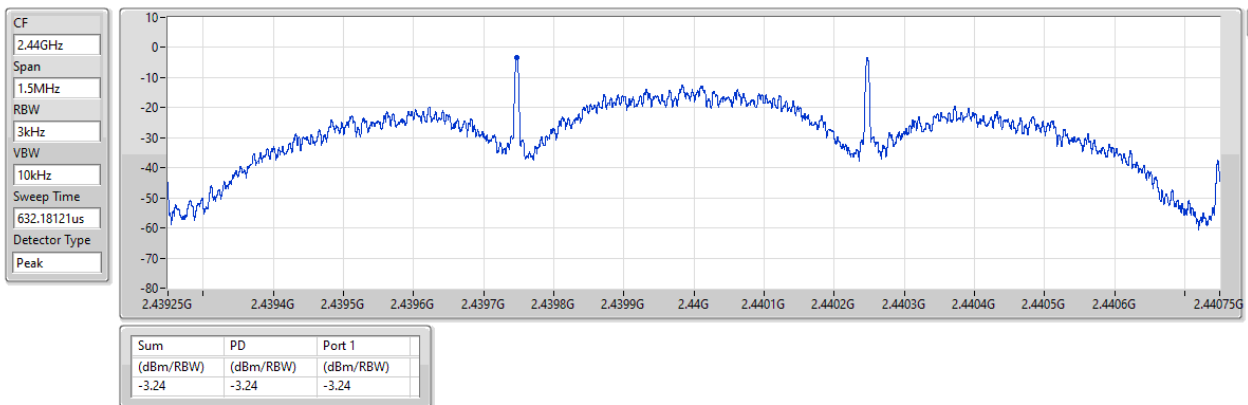


2.4-2.4835GHz_BT-LE(125kbps)

PSD

2440MHz

09/03/2023

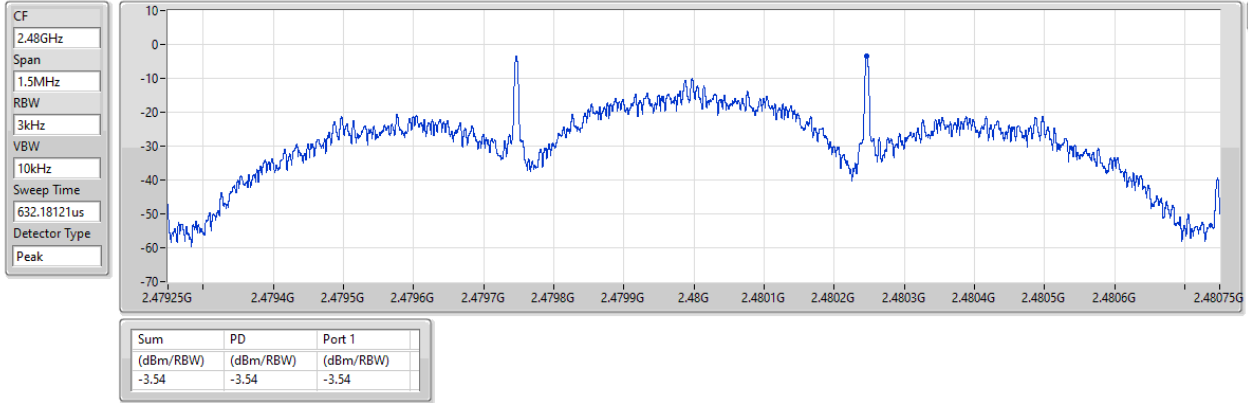


2.4-2.4835GHz_BT-LE(125kbps)

PSD

2480MHz

09/03/2023

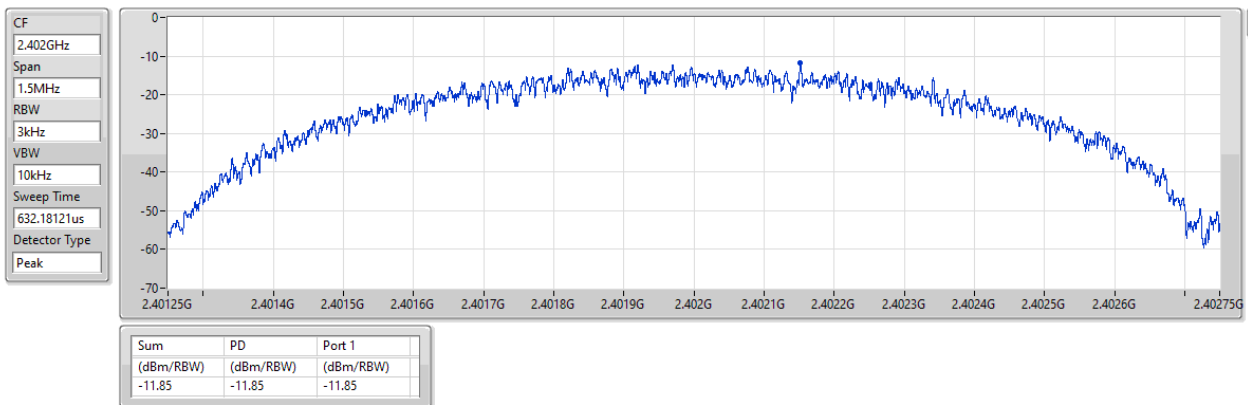


2.4-2.4835GHz_BT-LE(500kbps)

PSD

2402MHz

09/03/2023



2.4-2.4835GHz_BT-LE(500kbps)

PSD

2440MHz

09/03/2023

CF
2.44GHz

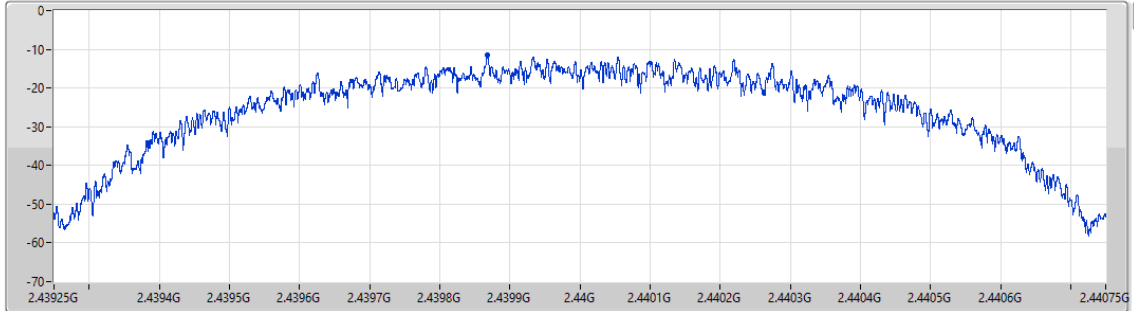
Span
1.5MHz

RBW
3kHz

VBW
10kHz

Sweep Time
632.18121us

Detector Type
Peak



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.57	-11.57	-11.57

2.4-2.4835GHz_BT-LE(500kbps)

PSD

2480MHz

09/03/2023

CF
2.48GHz

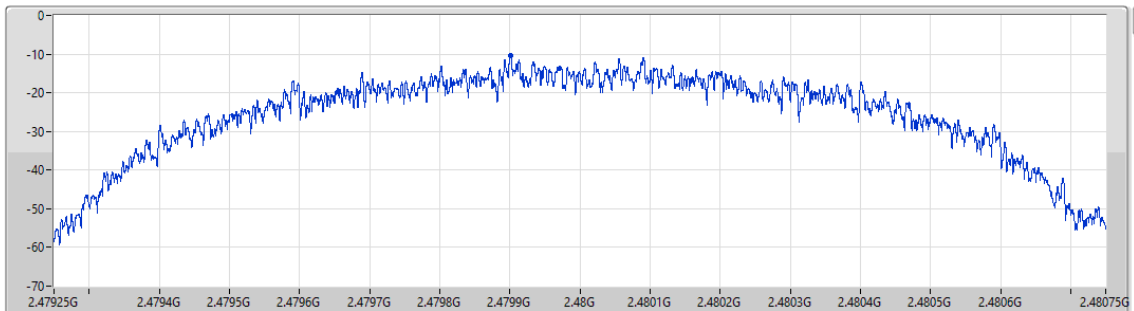
Span
1.5MHz

RBW
3kHz

VBW
10kHz

Sweep Time
632.18121us

Detector Type
Peak



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.40	-10.40	-10.40

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	2.89	-27.11	1.81483G	-55.39	2.4G	-45.73	2.4G	-46.98	2.50006G	-53.02	24.56413G	-42.81	1
BT-LE(2Mbps)	Pass	2.40134G	1.55	-28.45	1.94878G	-55.15	2.4G	-31.73	2.4G	-29.66	2.50014G	-53.70	21.95454G	-42.90	1
BT-LE(125kbps)	Pass	2.40184G	-0.50	-30.50	1.92528G	-54.48	2.4G	-46.30	2.4G	-45.62	2.50322G	-53.28	24.72723G	-42.73	1
BT-LE(500kbps)	Pass	2.40167G	2.19	-27.81	857.2M	-54.59	2.4G	-46.21	2.4G	-45.58	2.50118G	-52.33	15.24777G	-42.08	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	2.89	-27.11	1.81483G	-55.39	2.4G	-45.73	2.4G	-46.98	2.50006G	-53.02	24.56413G	-42.81	1
2440MHz	Pass	2.40167G	2.89	-27.11	769.08M	-54.62	2.39684G	-53.65	2.4G	-55.11	2.5013G	-53.01	24.50226G	-42.43	1
2480MHz	Pass	2.40167G	2.89	-27.11	906.55M	-54.37	2.39504G	-53.84	2.4G	-55.72	2.50338G	-53.27	23.35494G	-43.24	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40134G	1.55	-28.45	1.94878G	-55.15	2.4G	-31.73	2.4G	-29.66	2.50014G	-53.70	21.95454G	-42.90	1
2440MHz	Pass	2.40134G	1.55	-28.45	2.12503G	-55.48	2.39376G	-53.46	2.4G	-54.31	2.50102G	-53.71	23.26496G	-42.37	1
2480MHz	Pass	2.40134G	1.55	-28.45	2.0087G	-55.04	2.39692G	-53.59	2.4G	-56.02	2.5007G	-53.31	23.29027G	-42.45	1
BT-LE(125kbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40184G	-0.50	-30.50	1.92528G	-54.48	2.4G	-46.30	2.4G	-45.62	2.50322G	-53.28	24.72723G	-42.73	1
2440MHz	Pass	2.40184G	-0.50	-30.50	2.13325G	-55.19	2.39788G	-52.69	2.4G	-55.85	2.5007G	-52.43	24.8594G	-42.57	1
2480MHz	Pass	2.40184G	-0.50	-30.50	1.97933G	-54.19	2.39236G	-53.48	2.4G	-54.99	2.50102G	-52.47	23.39712G	-41.97	1
BT-LE(500kbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40167G	2.19	-27.81	857.2M	-54.59	2.4G	-46.21	2.4G	-45.58	2.50118G	-52.33	15.24777G	-42.08	1
2440MHz	Pass	2.40167G	2.19	-27.81	2.09213G	-54.60	2.39804G	-53.46	2.4G	-56.44	2.50206G	-52.95	15.21402G	-41.87	1
2480MHz	Pass	2.40167G	2.19	-27.81	2.08508G	-54.90	2.39728G	-53.85	2.4G	-55.78	2.50314G	-51.82	16.80565G	-42.87	1

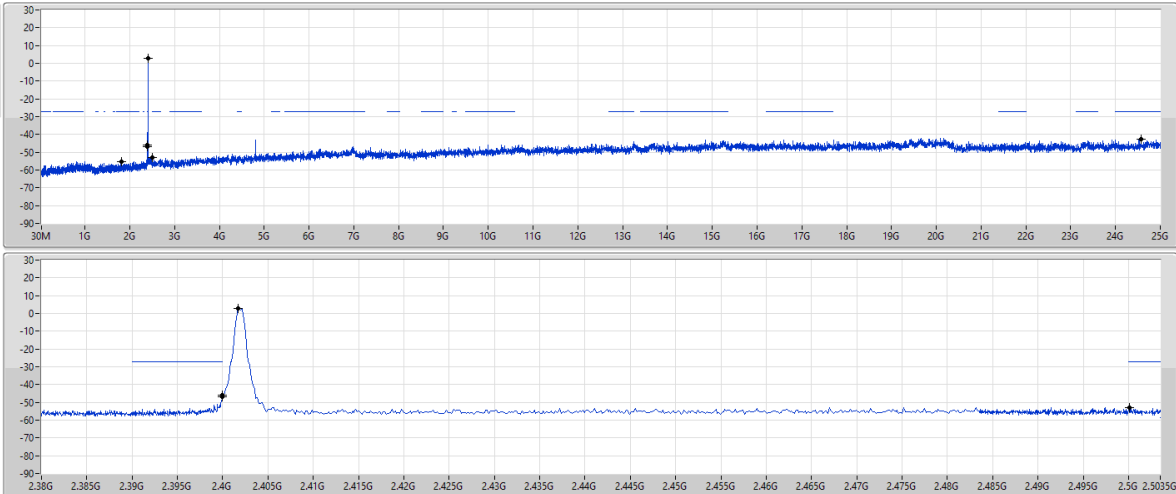
2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2402MHz

01/03/2023

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



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40167G	2.89	-27.11	1.81483G	-55.39	2.4G	-45.73	2.4G	-46.98	2.50006G	-53.02	2.456413G	-42.81	1

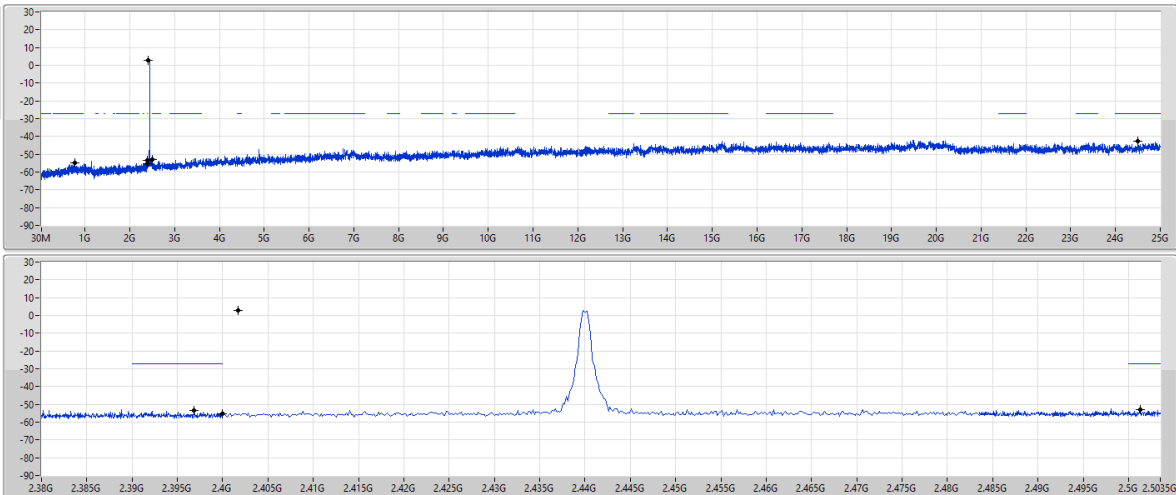
2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2440MHz

01/03/2023

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

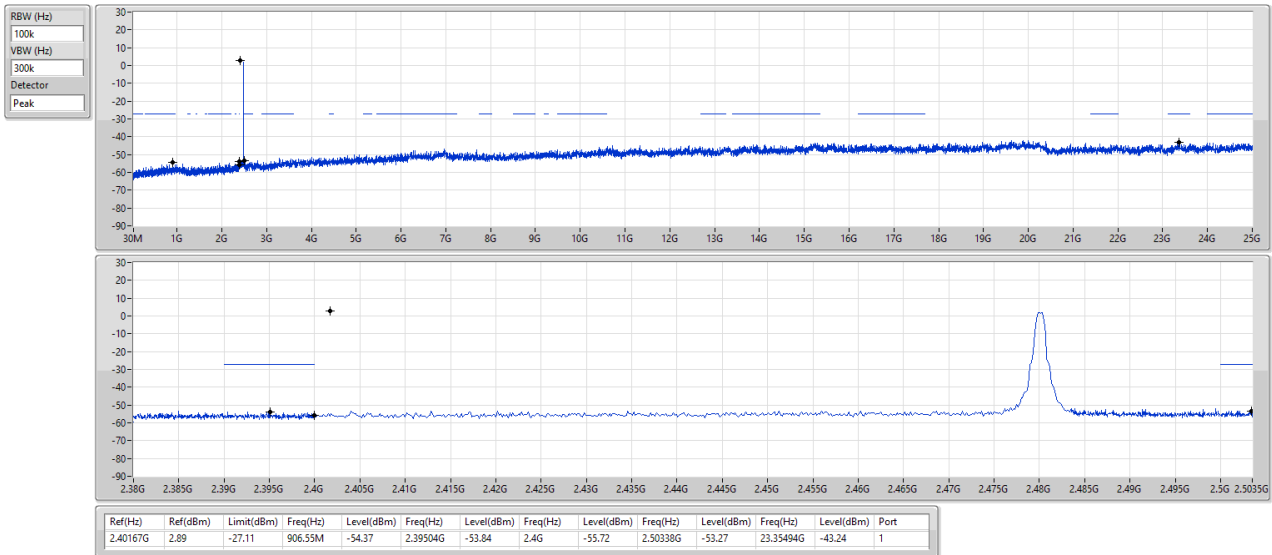


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40167G	2.89	-27.11	769.08M	-54.62	2.39684G	-53.65	2.4G	-55.11	2.5013G	-53.01	2.450226G	-42.43	1

2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

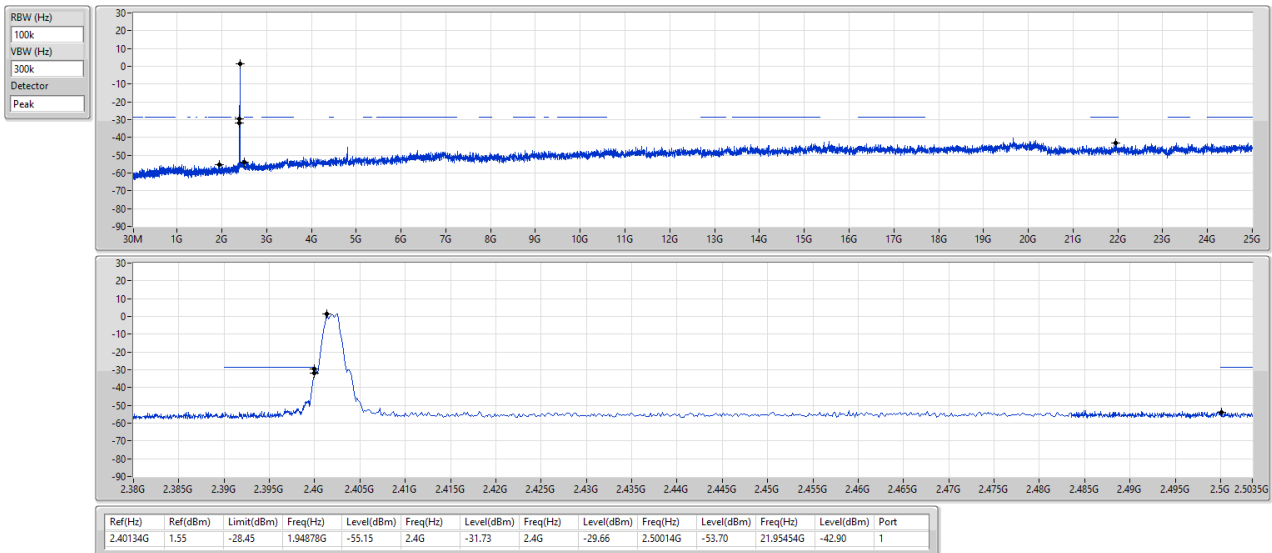
2480MHz



2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2402MHz



2.4-2.4835GHz_BT-LE(2Mbps)

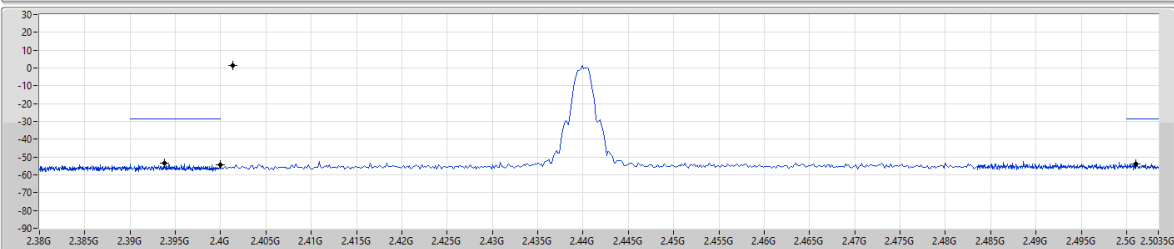
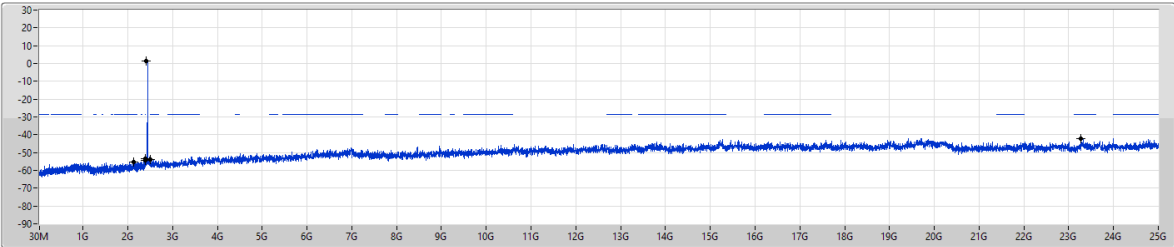
CSEndB-DTS

2440MHz

01/03/2023

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

Port 1



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
2.40134G	1.55	-28.45	2.12503G	-55.48	2.39376G	-53.46	2.4G	-54.31	2.50102G	-53.71	23.26496G	-42.37	1

2.4-2.4835GHz_BT-LE(2Mbps)

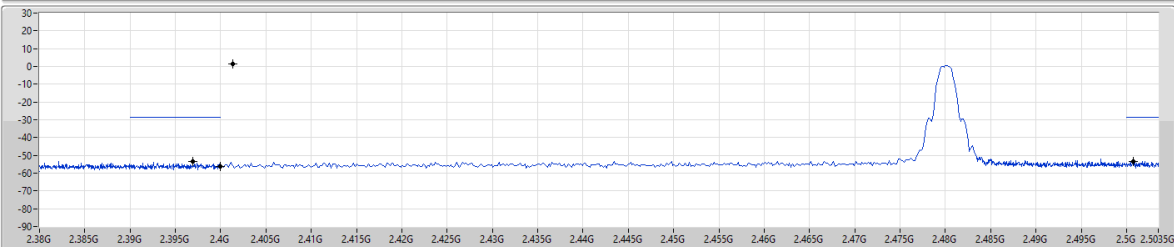
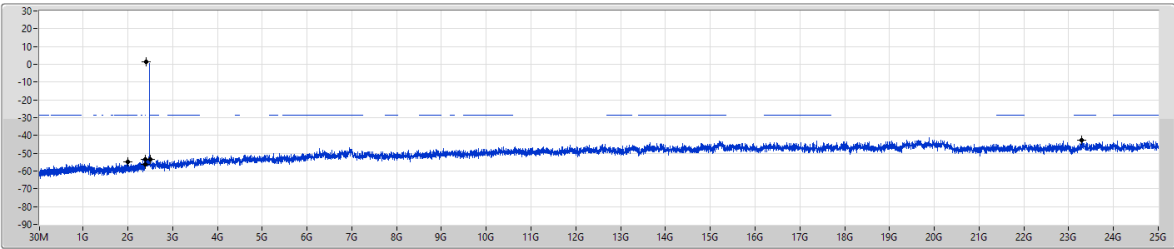
CSEndB-DTS

2480MHz

01/03/2023

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

Port 1



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
2.40134G	1.55	-28.45	2.0087G	-55.04	2.39692G	-53.59	2.4G	-56.02	2.5007G	-53.31	23.29027G	-42.45	1

2.4-2.4835GHz_BT-LE(125kbps)

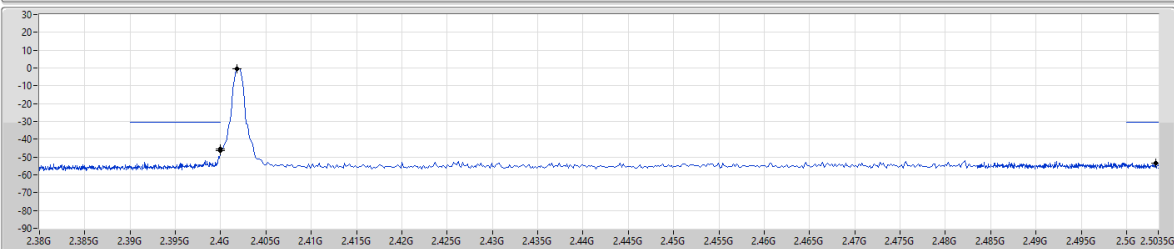
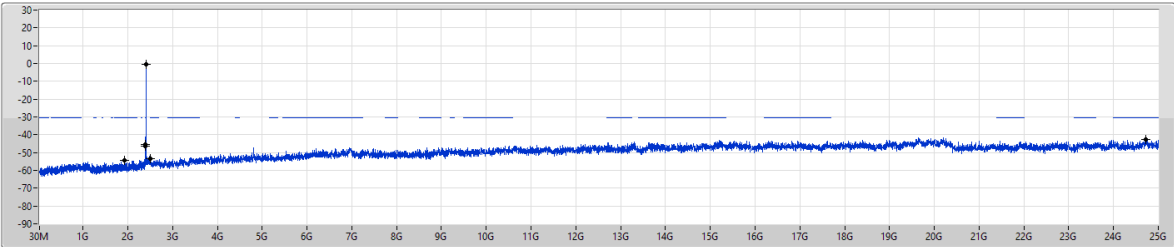
CSEndB-DTS

2402MHz

09/03/2023

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

Port 1



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40184G	-0.50	-30.50	1.92528G	-54.48	2.4G	-46.30	2.4G	-45.62	2.50322G	-53.28	2.47273G	-42.73	1

2.4-2.4835GHz_BT-LE(125kbps)

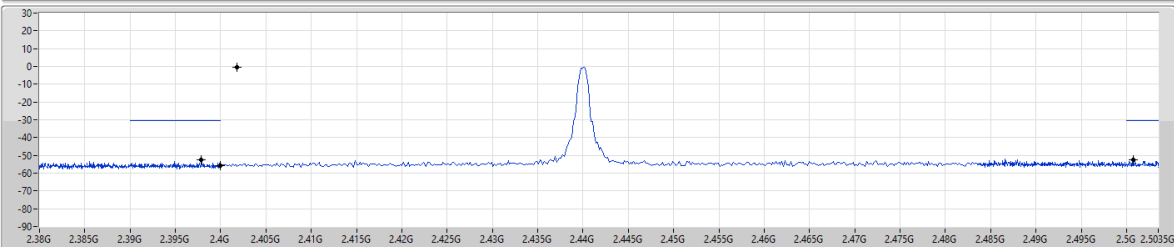
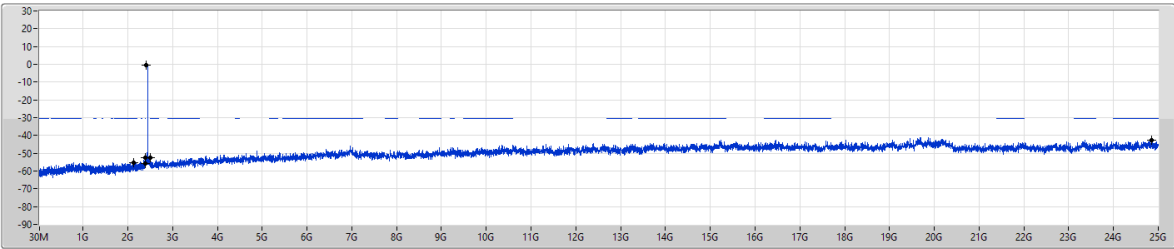
CSEndB-DTS

2440MHz

09/03/2023

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

Port 1



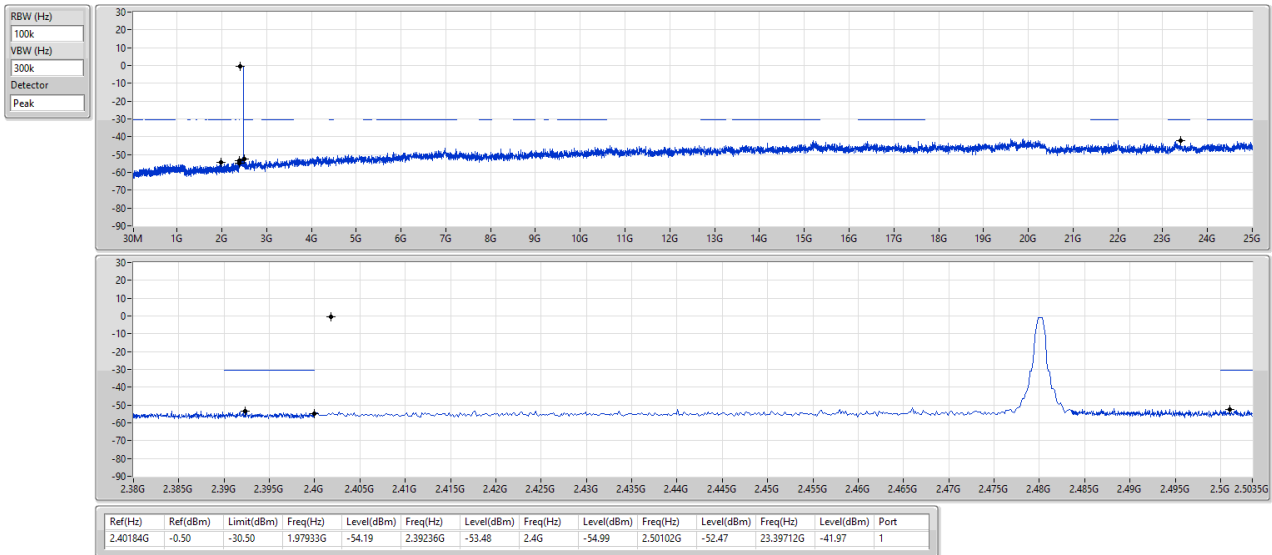
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40184G	-0.50	-30.50	2.13325G	-55.19	2.39788G	-52.69	2.4G	-55.85	2.5007G	-52.43	2.48594G	-42.57	1

2.4-2.4835GHz_BT-LE(125kbps)

CSEndB-DTS

2480MHz

09/03/2023

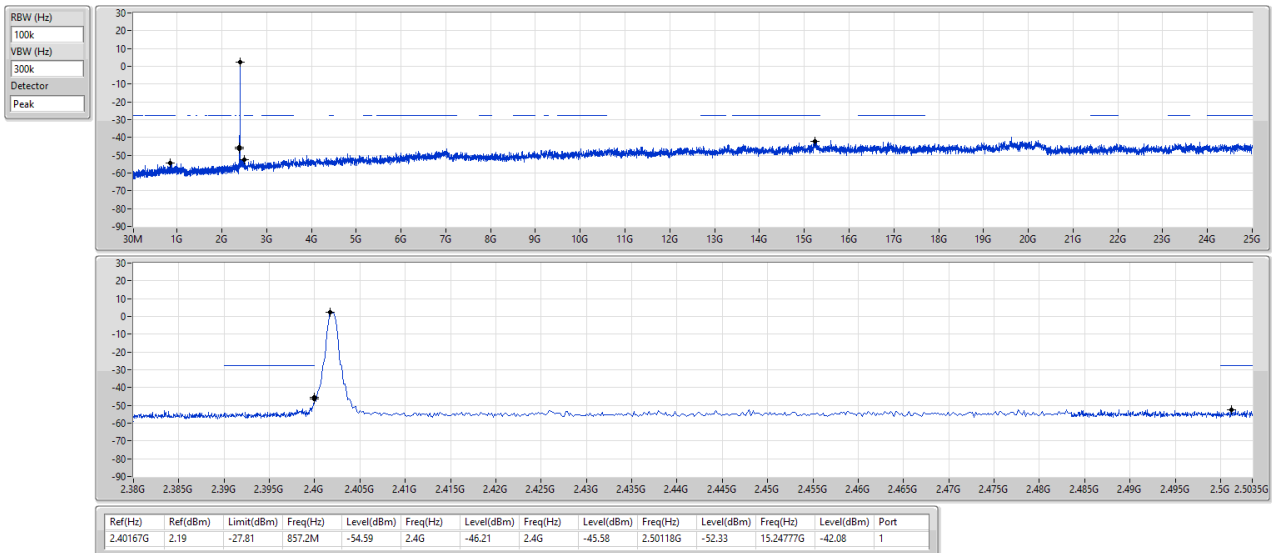


2.4-2.4835GHz_BT-LE(500kbps)

CSEndB-DTS

2402MHz

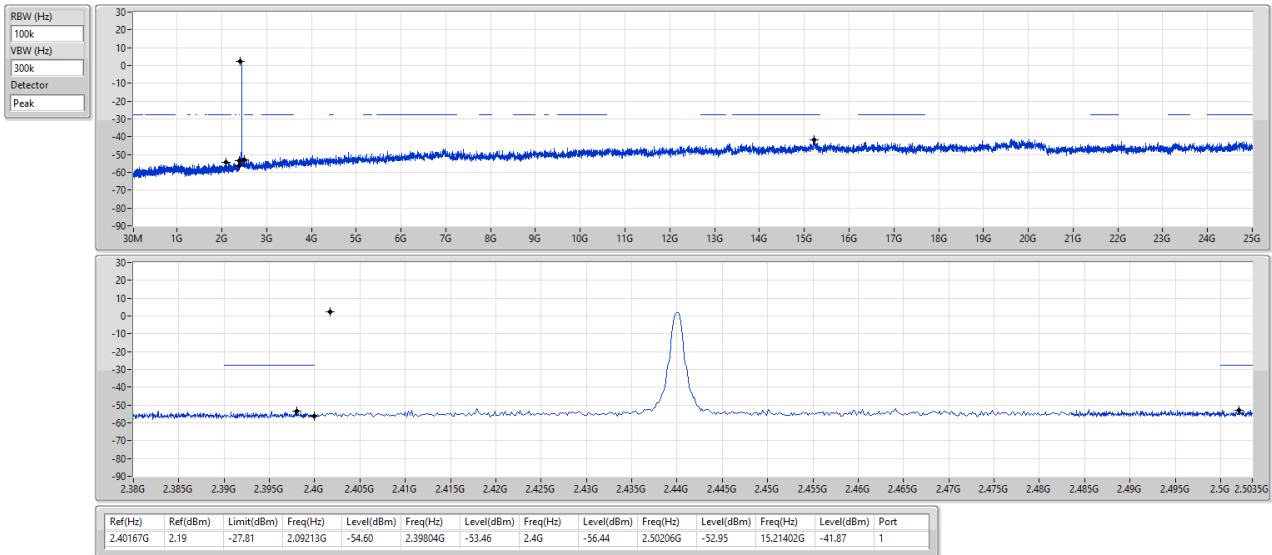
09/03/2023



2.4-2.4835GHz_BT-LE(500kbps)

CSEndB-DTS

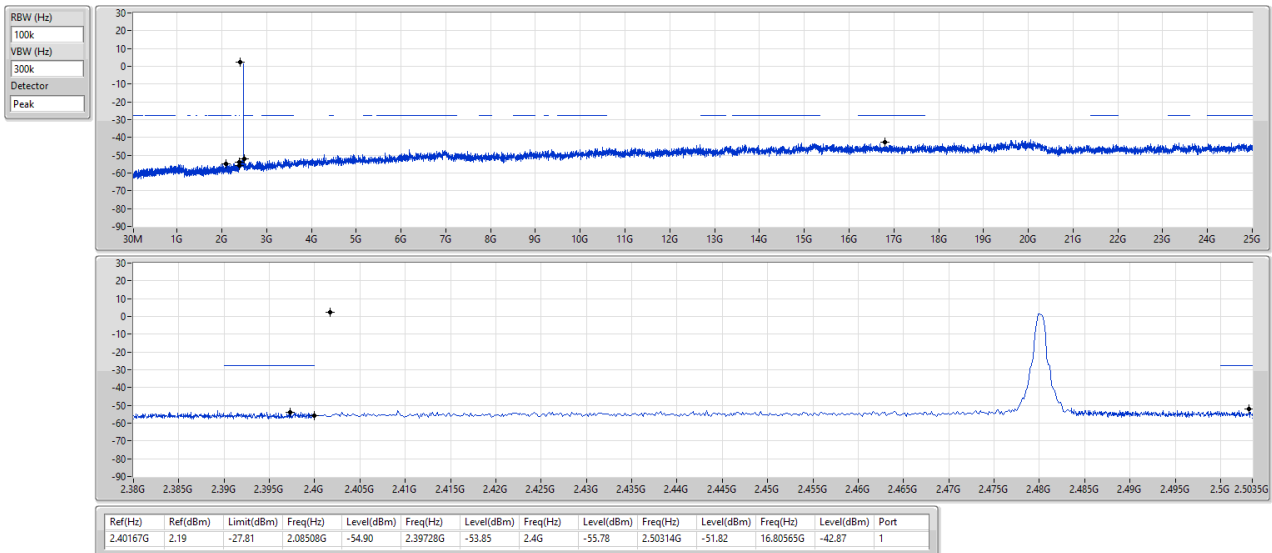
2440MHz



2.4-2.4835GHz_BT-LE(500kbps)

CSEndB-DTS

2480MHz



**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	360.77M	42.97	46.00	-3.03	Vertical
Mode 2	Pass	PK	53.28M	36.31	40.00	-3.69	Vertical
Mode 3	Pass	PK	369.5M	41.45	46.00	-4.55	Horizontal
Mode 4	Pass	PK	35.82M	36.97	40.00	-3.03	Horizontal
Mode 5	Pass	QP	48.66M	35.46	40.00	-4.54	Vertical
Mode 6	Pass	PK	37.76M	36.74	40.00	-3.26	Vertical
Mode 7	Pass	PK	49.4M	36.33	40.00	-3.67	Vertical
Mode 8	Pass	PK	123.12M	39.99	43.50	-3.51	Horizontal
Mode 9	Pass	PK	363.68M	42.85	46.00	-3.15	Horizontal
Mode 10	Pass	PK	47.46M	36.63	40.00	-3.37	Vertical
Mode 11	Pass	PK	30M	35.90	40.00	-4.10	Vertical
Mode 12	Pass	PK	35.82M	36.62	40.00	-3.38	Vertical

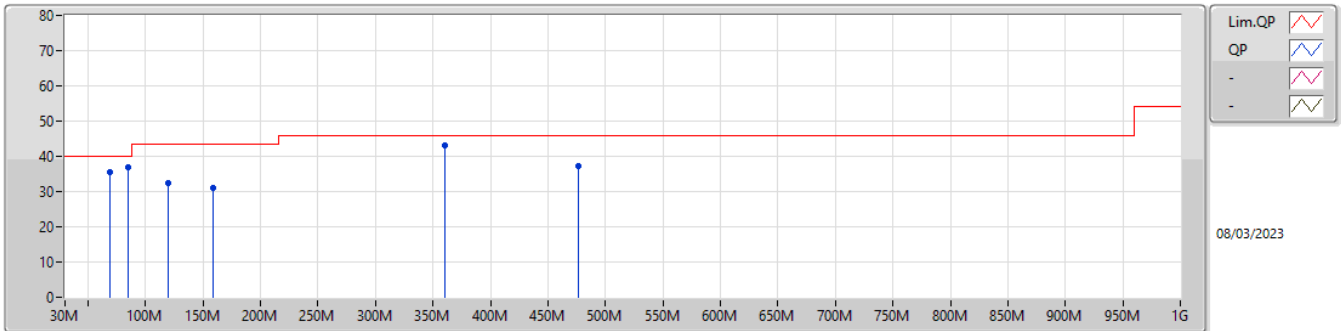
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	PK	68.8M	35.62	40.00	-4.38	3	Vertical	360	1.00
Mode 1	Pass	PK	85.29M	36.93	40.00	-3.07	3	Vertical	360	1.00
Mode 1	Pass	PK	119.24M	32.55	43.50	-10.95	3	Vertical	360	1.00
Mode 1	Pass	PK	159.01M	31.06	43.50	-12.44	3	Vertical	360	1.00
Mode 1	Pass	PK	360.77M	42.97	46.00	-3.03	3	Vertical	360	1.00
Mode 1	Pass	PK	476.2M	37.35	46.00	-8.65	3	Vertical	360	1.00
Mode 1	Pass	PK	67.83M	36.12	40.00	-3.88	3	Horizontal	0	1.00
Mode 1	Pass	PK	157.07M	35.44	43.50	-8.06	3	Horizontal	0	1.00
Mode 1	Pass	PK	251.16M	33.40	46.00	-12.60	3	Horizontal	0	1.00
Mode 1	Pass	PK	362.71M	40.64	46.00	-5.36	3	Horizontal	0	1.00
Mode 1	Pass	PK	482.02M	39.43	46.00	-6.57	3	Horizontal	0	1.00
Mode 1	Pass	QP	118.42M	35.92	43.50	-7.58	3	Horizontal	237	2.15
Mode 2	Pass	PK	53.28M	36.31	40.00	-3.69	3	Vertical	360	1.00
Mode 2	Pass	PK	82.38M	35.34	40.00	-4.66	3	Vertical	360	1.00
Mode 2	Pass	PK	121.18M	39.26	43.50	-4.24	3	Vertical	360	1.00
Mode 2	Pass	PK	239.52M	32.61	46.00	-13.39	3	Vertical	360	1.00
Mode 2	Pass	PK	398.6M	36.31	46.00	-9.69	3	Vertical	360	1.00
Mode 2	Pass	PK	468.44M	36.97	46.00	-9.03	3	Vertical	360	1.00
Mode 2	Pass	PK	57.16M	36.26	40.00	-3.74	3	Horizontal	0	1.00
Mode 2	Pass	PK	196.84M	38.18	43.50	-5.32	3	Horizontal	0	1.00
Mode 2	Pass	PK	239.52M	35.00	46.00	-11.00	3	Horizontal	0	1.00
Mode 2	Pass	PK	355.92M	36.89	46.00	-9.11	3	Horizontal	0	1.00
Mode 2	Pass	PK	480.08M	40.74	46.00	-5.26	3	Horizontal	0	1.00
Mode 2	Pass	QP	121.58M	39.25	43.50	-4.25	3	Horizontal	318	2.64
Mode 3	Pass	PK	92.08M	38.35	43.50	-5.15	3	Vertical	360	1.00
Mode 3	Pass	PK	123.12M	34.27	43.50	-9.23	3	Vertical	360	1.00
Mode 3	Pass	PK	150.28M	33.13	43.50	-10.37	3	Vertical	360	1.00
Mode 3	Pass	PK	464.56M	39.24	46.00	-6.76	3	Vertical	360	1.00
Mode 3	Pass	QP	69.52M	33.68	40.00	-6.32	3	Vertical	163	2.28
Mode 3	Pass	QP	361.7M	41.23	46.00	-4.77	3	Vertical	191	1.14
Mode 3	Pass	PK	121.18M	37.42	43.50	-6.08	3	Horizontal	0	1.00
Mode 3	Pass	PK	148.34M	38.44	43.50	-5.06	3	Horizontal	0	1.00
Mode 3	Pass	PK	231.76M	35.80	46.00	-10.20	3	Horizontal	0	1.00
Mode 3	Pass	PK	369.5M	41.45	46.00	-4.55	3	Horizontal	0	1.00
Mode 3	Pass	PK	485.9M	40.85	46.00	-5.15	3	Horizontal	0	1.00
Mode 3	Pass	QP	69.53M	35.02	40.00	-4.98	3	Horizontal	77	2.53
Mode 4	Pass	PK	138.64M	33.24	43.50	-10.26	3	Vertical	360	1.00
Mode 4	Pass	PK	191.02M	30.11	43.50	-13.39	3	Vertical	360	1.00
Mode 4	Pass	PK	256.98M	32.75	46.00	-13.25	3	Vertical	360	1.00
Mode 4	Pass	PK	402.48M	32.80	46.00	-13.20	3	Vertical	360	1.00
Mode 4	Pass	PK	516.94M	33.20	46.00	-12.80	3	Vertical	360	1.00
Mode 4	Pass	QP	36.88M	36.02	40.00	-3.98	3	Vertical	25	1.00
Mode 4	Pass	PK	35.82M	36.97	40.00	-3.03	3	Horizontal	0	1.00
Mode 4	Pass	PK	115.36M	35.67	43.50	-7.83	3	Horizontal	0	1.00
Mode 4	Pass	PK	191.02M	38.16	43.50	-5.34	3	Horizontal	0	1.00
Mode 4	Pass	PK	338.46M	33.21	46.00	-12.79	3	Horizontal	0	1.00
Mode 4	Pass	PK	385.02M	33.73	46.00	-12.27	3	Horizontal	0	1.00
Mode 4	Pass	PK	516.94M	32.08	46.00	-13.92	3	Horizontal	0	1.00
Mode 5	Pass	PK	134.76M	33.07	43.50	-10.43	3	Vertical	360	1.00
Mode 5	Pass	PK	198.78M	28.30	43.50	-15.20	3	Vertical	360	1.00

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 5	Pass	PK	264.74M	32.19	46.00	-13.81	3	Vertical	360	1.00
Mode 5	Pass	PK	404.42M	29.51	46.00	-16.49	3	Vertical	360	1.00
Mode 5	Pass	PK	499.48M	35.17	46.00	-10.83	3	Vertical	360	1.00
Mode 5	Pass	QP	48.66M	35.46	40.00	-4.54	3	Vertical	22	1.00
Mode 5	Pass	PK	37.76M	32.21	40.00	-7.79	3	Horizontal	0	1.00
Mode 5	Pass	PK	130.88M	37.97	43.50	-5.53	3	Horizontal	0	1.00
Mode 5	Pass	PK	200.72M	33.48	43.50	-10.02	3	Horizontal	0	1.00
Mode 5	Pass	PK	225.94M	32.65	46.00	-13.35	3	Horizontal	0	1.00
Mode 5	Pass	PK	264.74M	30.49	46.00	-15.51	3	Horizontal	0	1.00
Mode 5	Pass	PK	404.42M	30.97	46.00	-15.03	3	Horizontal	0	1.00
Mode 6	Pass	PK	37.76M	36.74	40.00	-3.26	3	Vertical	360	1.00
Mode 6	Pass	PK	138.64M	33.54	43.50	-9.96	3	Vertical	360	1.00
Mode 6	Pass	PK	191.02M	29.86	43.50	-13.64	3	Vertical	360	1.00
Mode 6	Pass	PK	264.74M	33.53	46.00	-12.47	3	Vertical	360	1.00
Mode 6	Pass	PK	402.48M	29.34	46.00	-16.66	3	Vertical	360	1.00
Mode 6	Pass	PK	495.6M	29.29	46.00	-16.71	3	Vertical	360	1.00
Mode 6	Pass	PK	37.76M	34.85	40.00	-5.15	3	Horizontal	0	1.00
Mode 6	Pass	PK	115.36M	34.79	43.50	-8.71	3	Horizontal	0	1.00
Mode 6	Pass	PK	191.02M	38.59	43.50	-4.91	3	Horizontal	0	1.00
Mode 6	Pass	PK	276.38M	31.68	46.00	-14.32	3	Horizontal	0	1.00
Mode 6	Pass	PK	344.28M	30.47	46.00	-15.53	3	Horizontal	0	1.00
Mode 6	Pass	PK	518.88M	36.03	46.00	-9.97	3	Horizontal	0	1.00
Mode 7	Pass	PK	49.4M	36.33	40.00	-3.67	3	Vertical	360	1.00
Mode 7	Pass	PK	159.98M	34.28	43.50	-9.22	3	Vertical	360	1.00
Mode 7	Pass	PK	237.58M	30.47	46.00	-15.53	3	Vertical	360	1.00
Mode 7	Pass	PK	367.56M	39.09	46.00	-6.91	3	Vertical	360	1.00
Mode 7	Pass	PK	472.32M	35.67	46.00	-10.33	3	Vertical	360	1.00
Mode 7	Pass	PK	736.16M	29.54	46.00	-16.46	3	Vertical	360	1.00
Mode 7	Pass	PK	47.46M	29.82	40.00	-10.18	3	Horizontal	0	1.00
Mode 7	Pass	PK	113.42M	35.52	43.50	-7.98	3	Horizontal	0	1.00
Mode 7	Pass	PK	159.98M	34.79	43.50	-8.71	3	Horizontal	0	1.00
Mode 7	Pass	PK	256.98M	35.39	46.00	-10.61	3	Horizontal	0	1.00
Mode 7	Pass	PK	363.68M	41.39	46.00	-4.61	3	Horizontal	0	1.00
Mode 7	Pass	PK	478.14M	39.03	46.00	-6.97	3	Horizontal	0	1.00
Mode 8	Pass	PK	121.18M	34.38	43.50	-9.12	3	Vertical	360	1.00
Mode 8	Pass	PK	216M	29.59	43.50	-13.91	3	Vertical	360	1.00
Mode 8	Pass	PK	311.3M	29.73	46.00	-16.27	3	Vertical	360	1.00
Mode 8	Pass	PK	381.14M	36.46	46.00	-9.54	3	Vertical	360	1.00
Mode 8	Pass	PK	474.26M	36.69	46.00	-9.31	3	Vertical	360	1.00
Mode 8	Pass	QP	54.68M	35.86	40.00	-4.14	3	Vertical	35	1.28
Mode 8	Pass	PK	47.46M	29.05	40.00	-10.95	3	Horizontal	360	1.00
Mode 8	Pass	PK	123.12M	39.99	43.50	-3.51	3	Horizontal	360	1.00
Mode 8	Pass	PK	237.58M	33.21	46.00	-12.79	3	Horizontal	360	1.00
Mode 8	Pass	PK	315.18M	35.58	46.00	-10.42	3	Horizontal	360	1.00
Mode 8	Pass	PK	365.62M	42.43	46.00	-3.57	3	Horizontal	360	1.00
Mode 8	Pass	PK	462.62M	38.80	46.00	-7.20	3	Horizontal	360	1.00
Mode 9	Pass	PK	80.44M	35.58	40.00	-4.42	3	Vertical	360	1.00
Mode 9	Pass	PK	128.94M	33.91	43.50	-9.59	3	Vertical	360	1.00
Mode 9	Pass	PK	321M	33.53	46.00	-12.47	3	Vertical	360	1.00
Mode 9	Pass	PK	359.8M	38.68	46.00	-7.32	3	Vertical	360	1.00

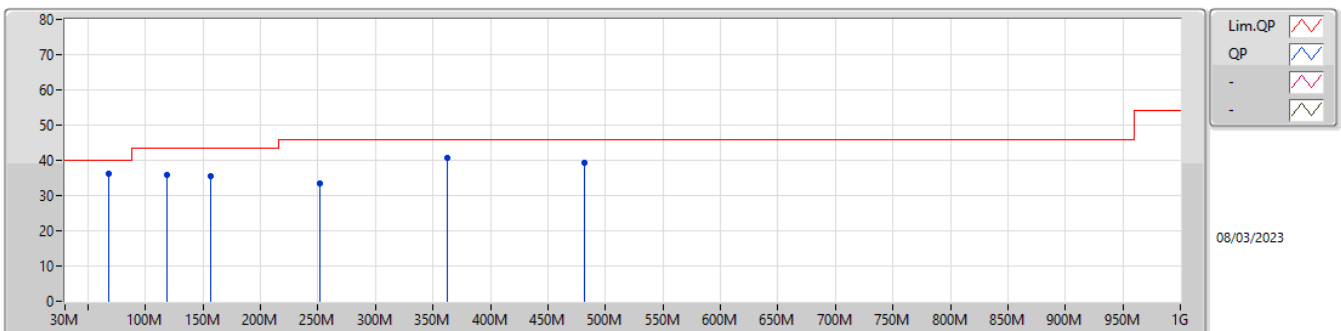
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 9	Pass	PK	468.44M	37.78	46.00	-8.22	3	Vertical	360	1.00
Mode 9	Pass	QP	53.55M	33.07	40.00	-6.93	3	Vertical	2	1.21
Mode 9	Pass	PK	47.46M	36.56	40.00	-3.44	3	Horizontal	0	1.00
Mode 9	Pass	PK	78.5M	36.03	40.00	-3.97	3	Horizontal	0	1.00
Mode 9	Pass	PK	125.06M	39.47	43.50	-4.03	3	Horizontal	0	1.00
Mode 9	Pass	PK	214.3M	34.57	43.50	-8.93	3	Horizontal	0	1.00
Mode 9	Pass	PK	363.68M	42.85	46.00	-3.15	3	Horizontal	0	1.00
Mode 9	Pass	PK	480.08M	38.17	46.00	-7.83	3	Horizontal	0	1.00
Mode 10	Pass	PK	30M	32.80	40.00	-7.20	3	Vertical	0	1.00
Mode 10	Pass	PK	47.46M	36.63	40.00	-3.37	3	Vertical	0	1.00
Mode 10	Pass	PK	109.54M	31.46	43.50	-12.04	3	Vertical	0	1.00
Mode 10	Pass	PK	208.48M	28.61	43.50	-14.89	3	Vertical	0	1.00
Mode 10	Pass	PK	258.92M	31.70	46.00	-14.30	3	Vertical	0	1.00
Mode 10	Pass	PK	377.26M	34.65	46.00	-11.35	3	Vertical	0	1.00
Mode 10	Pass	PK	30M	30.66	40.00	-9.34	3	Horizontal	360	1.00
Mode 10	Pass	PK	47.46M	31.05	40.00	-8.95	3	Horizontal	360	1.00
Mode 10	Pass	PK	150.28M	32.62	43.50	-10.88	3	Horizontal	360	1.00
Mode 10	Pass	PK	198.78M	36.26	43.50	-7.24	3	Horizontal	360	1.00
Mode 10	Pass	PK	241.46M	32.23	46.00	-13.77	3	Horizontal	360	1.00
Mode 10	Pass	PK	373.38M	34.48	46.00	-11.52	3	Horizontal	360	1.00
Mode 11	Pass	PK	30M	35.90	40.00	-4.10	3	Vertical	360	1.00
Mode 11	Pass	PK	51.34M	32.48	40.00	-7.52	3	Vertical	360	1.00
Mode 11	Pass	PK	123.12M	32.30	43.50	-11.20	3	Vertical	360	1.00
Mode 11	Pass	PK	264.74M	32.55	46.00	-13.45	3	Vertical	360	1.00
Mode 11	Pass	PK	375.32M	33.96	46.00	-12.04	3	Vertical	360	1.00
Mode 11	Pass	PK	499.48M	33.28	46.00	-12.72	3	Vertical	360	1.00
Mode 11	Pass	PK	30M	32.50	40.00	-7.50	3	Horizontal	0	1.00
Mode 11	Pass	PK	47.46M	30.12	40.00	-9.88	3	Horizontal	0	1.00
Mode 11	Pass	PK	125.06M	30.17	43.50	-13.33	3	Horizontal	0	1.00
Mode 11	Pass	PK	196.84M	32.93	43.50	-10.57	3	Horizontal	0	1.00
Mode 11	Pass	PK	233.7M	33.26	46.00	-12.74	3	Horizontal	0	1.00
Mode 11	Pass	PK	375.32M	30.77	46.00	-15.23	3	Horizontal	0	1.00
Mode 12	Pass	PK	35.82M	36.62	40.00	-3.38	3	Vertical	360	1.00
Mode 12	Pass	PK	171.62M	29.63	43.50	-13.87	3	Vertical	360	1.00
Mode 12	Pass	PK	191.02M	29.67	43.50	-13.83	3	Vertical	360	1.00
Mode 12	Pass	PK	258.92M	33.77	46.00	-12.23	3	Vertical	360	1.00
Mode 12	Pass	PK	375.32M	31.66	46.00	-14.34	3	Vertical	360	1.00
Mode 12	Pass	PK	516.94M	35.33	46.00	-10.67	3	Vertical	360	1.00
Mode 12	Pass	PK	35.82M	36.05	40.00	-3.95	3	Horizontal	0	1.00
Mode 12	Pass	PK	150.28M	28.42	43.50	-15.08	3	Horizontal	0	1.00
Mode 12	Pass	PK	191.02M	37.11	43.50	-6.39	3	Horizontal	0	1.00
Mode 12	Pass	PK	225.94M	36.15	46.00	-9.85	3	Horizontal	0	1.00
Mode 12	Pass	PK	270.56M	31.59	46.00	-14.41	3	Horizontal	0	1.00
Mode 12	Pass	PK	381.14M	29.44	46.00	-16.56	3	Horizontal	0	1.00

Radiated Emissions below 1GHz_Mode 1



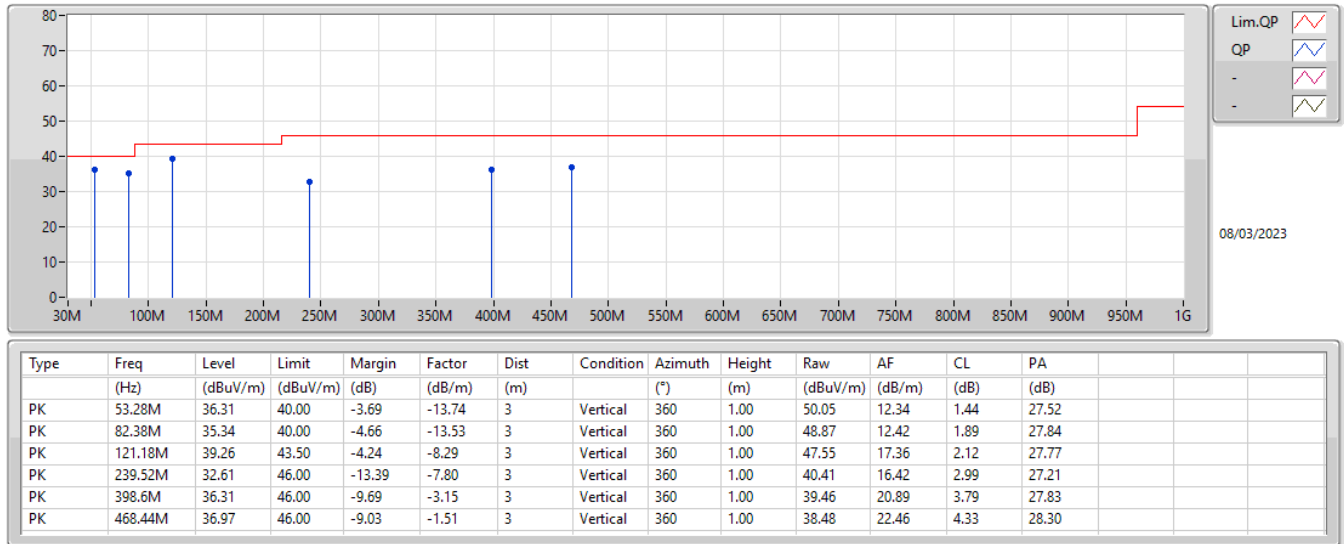
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	68.8M	35.62	40.00	-4.38	-14.51	3	Vertical	360	1.00	50.13	11.59	1.68	27.78
PK	85.29M	36.93	40.00	-3.07	-12.86	3	Vertical	360	1.00	49.79	13.08	1.90	27.84
PK	119.24M	32.55	43.50	-10.95	-8.30	3	Vertical	360	1.00	40.85	17.37	2.10	27.77
PK	159.01M	31.06	43.50	-12.44	-9.92	3	Vertical	360	1.00	40.98	15.25	2.46	27.63
PK	360.77M	42.97	46.00	-3.03	-6.82	3	Vertical	360	1.00	49.79	19.91	0.84	27.57
PK	476.2M	37.35	46.00	-8.65	-1.31	3	Vertical	360	1.00	38.66	22.65	4.35	28.31

Radiated Emissions below 1GHz_Mode 1

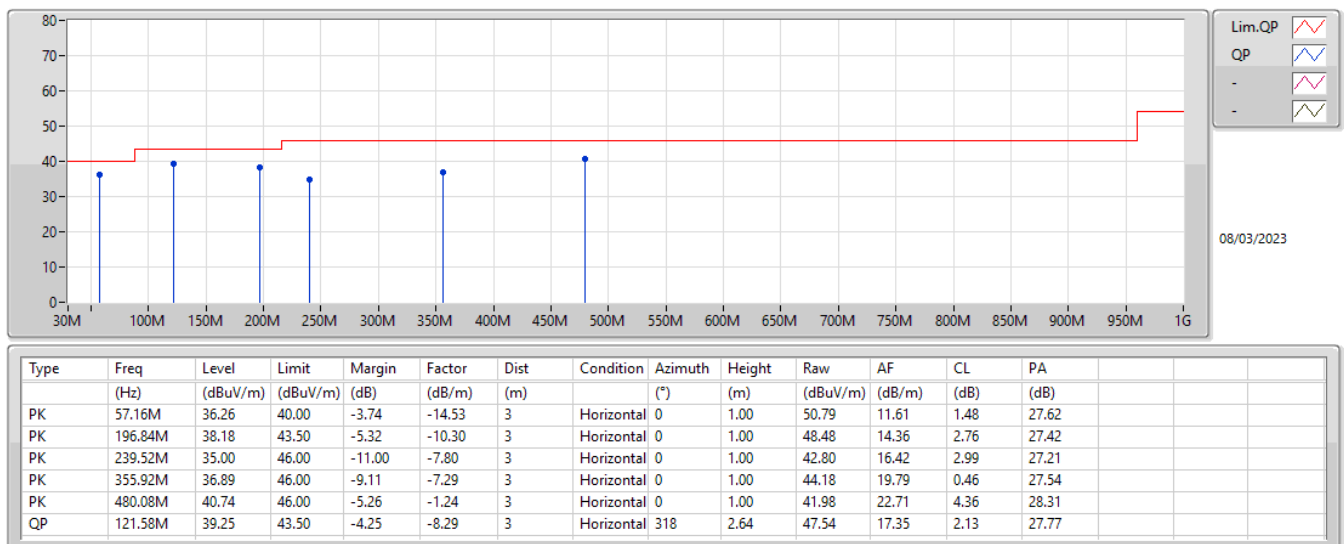


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	67.83M	36.12	40.00	-3.88	-14.55	3	Horizontal	0	1.00	50.67	11.56	1.66	27.77
PK	157.07M	35.44	43.50	-8.06	-9.86	3	Horizontal	0	1.00	45.30	15.33	2.45	27.64
PK	251.16M	33.40	46.00	-12.60	-6.43	3	Horizontal	0	1.00	39.83	17.68	3.05	27.16
PK	362.71M	40.64	46.00	-5.36	-6.66	3	Horizontal	0	1.00	47.30	19.94	0.99	27.59
PK	482.02M	39.43	46.00	-6.57	-1.24	3	Horizontal	0	1.00	40.67	22.71	4.36	28.31
QP	118.42M	35.92	43.50	-7.58	-8.31	3	Horizontal	237	2.15	44.23	17.36	2.10	27.77

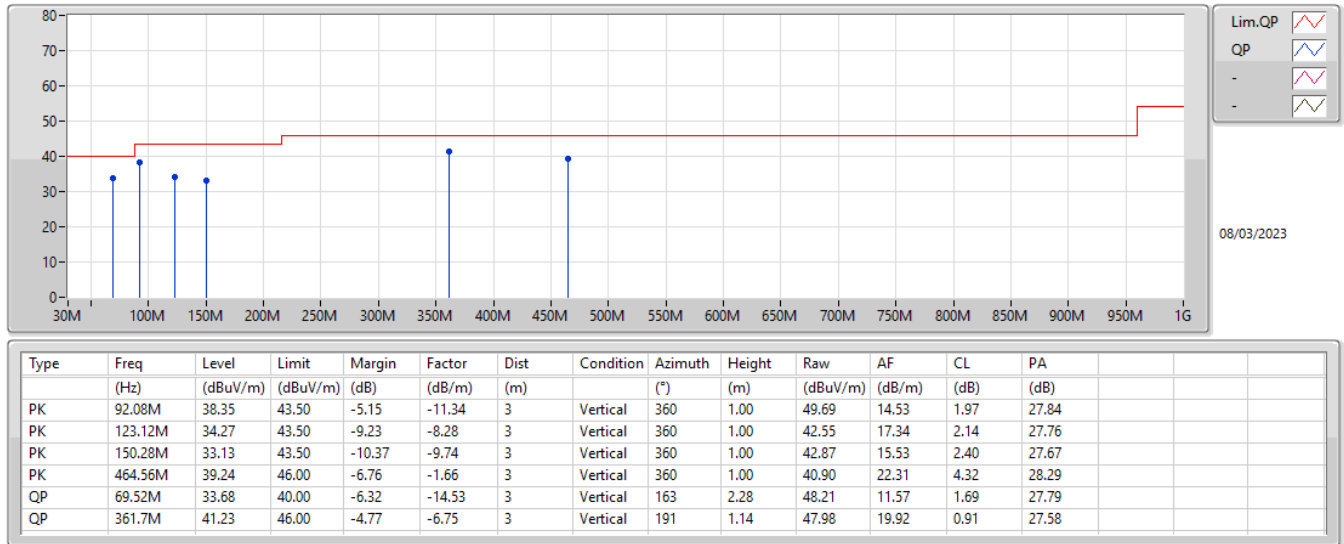
Radiated Emissions below 1GHz_Mode 2



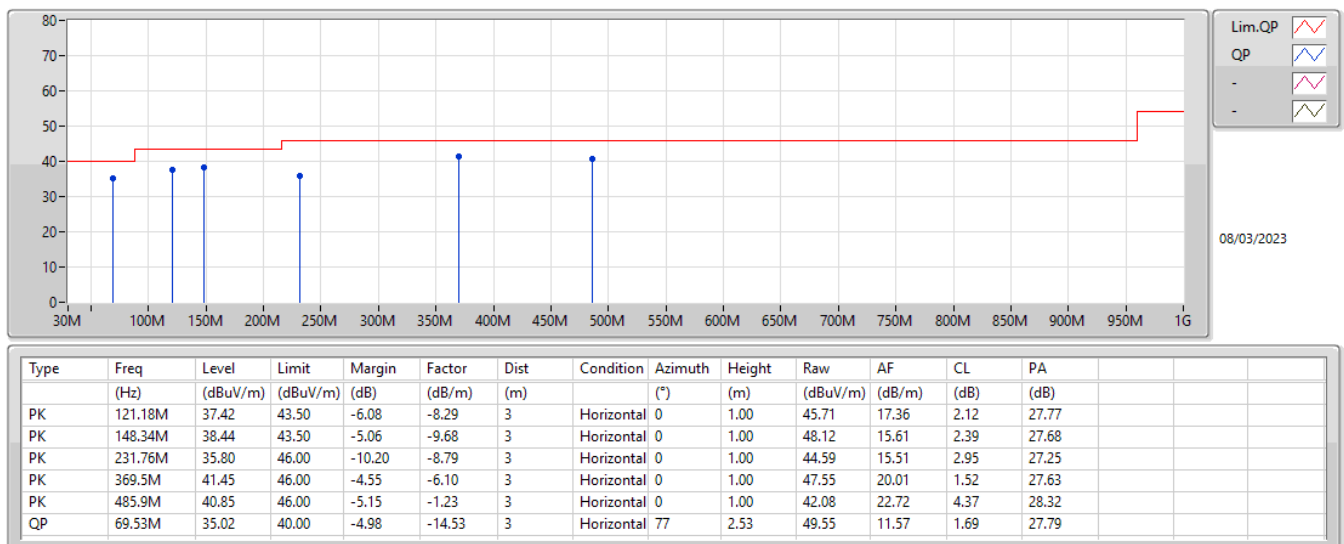
Radiated Emissions below 1GHz_Mode 2



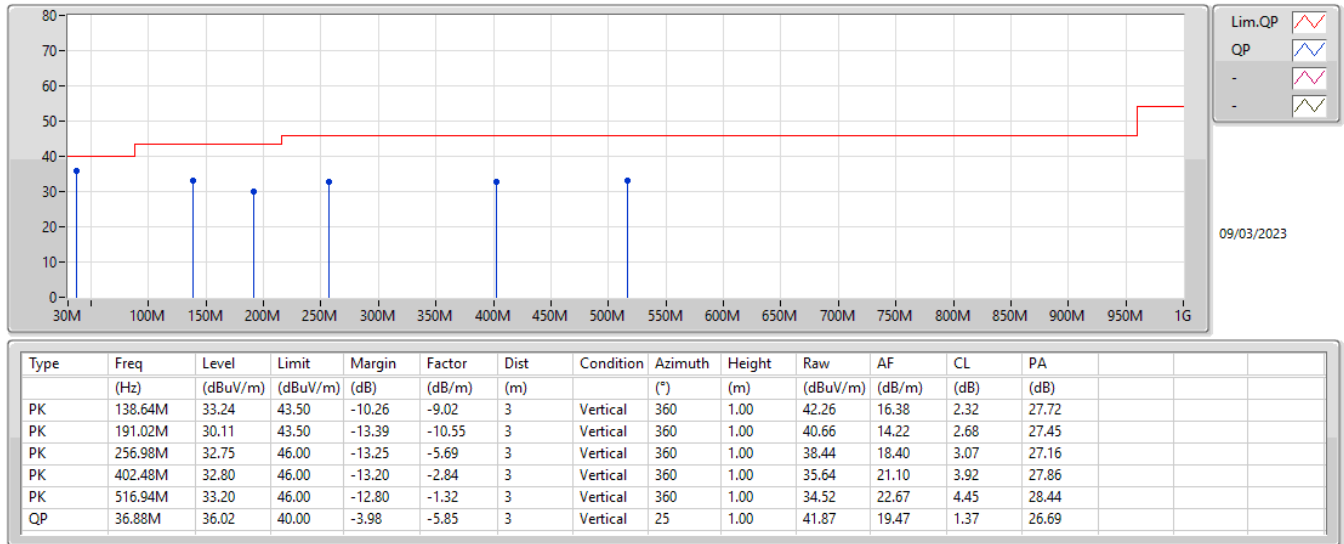
Radiated Emissions below 1GHz_Mode 3



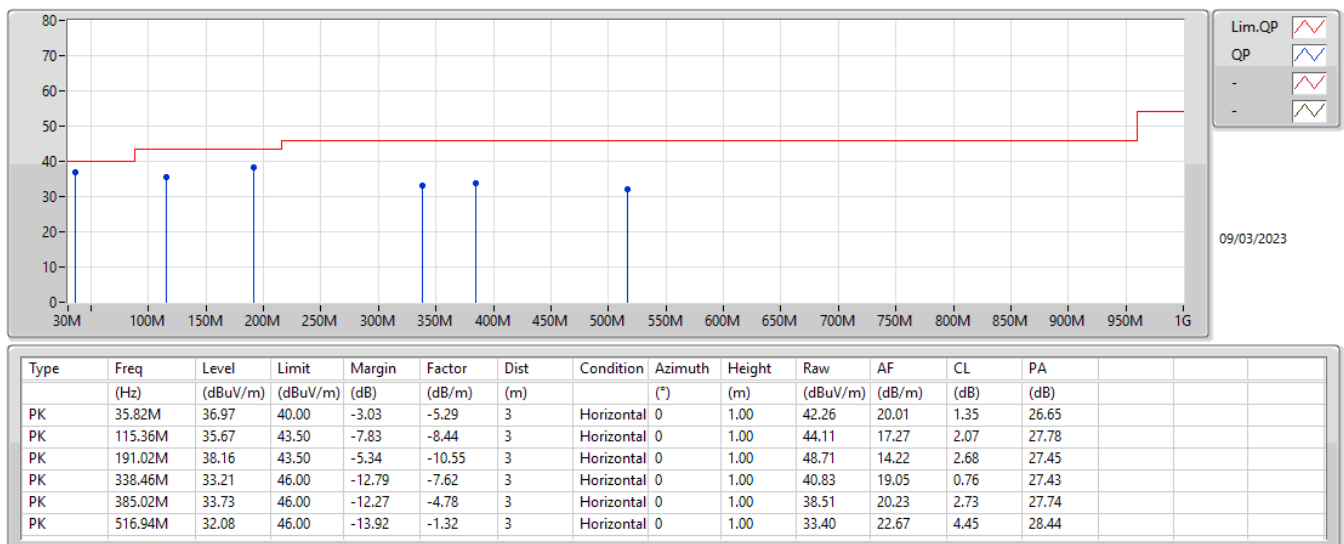
Radiated Emissions below 1GHz_Mode 3



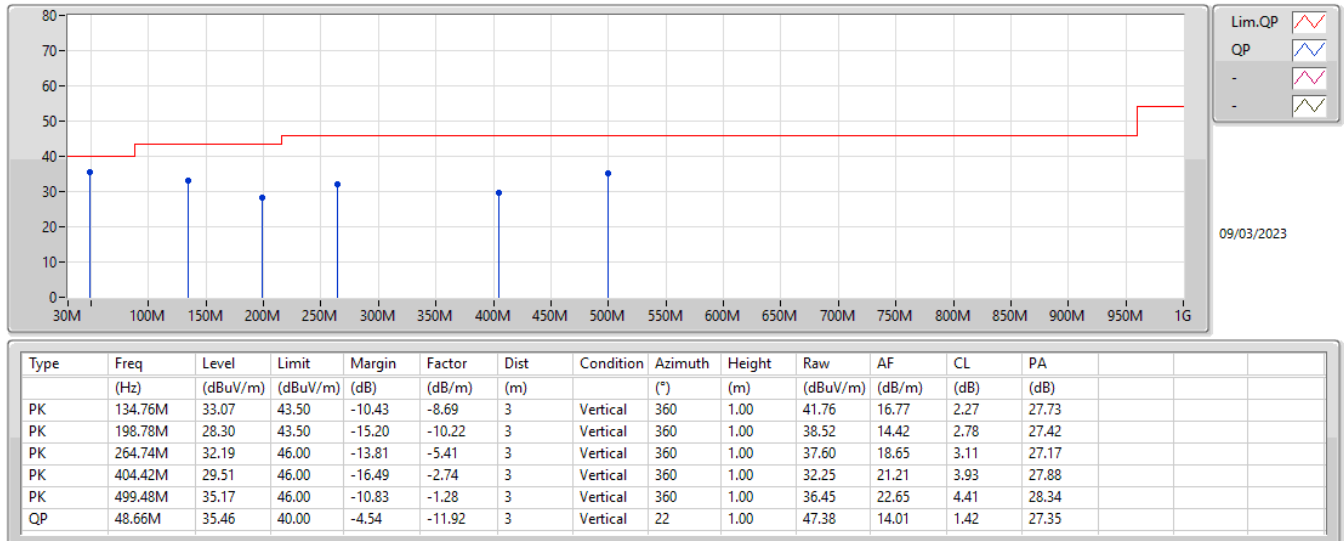
Radiated Emissions below 1GHz_Mode 4



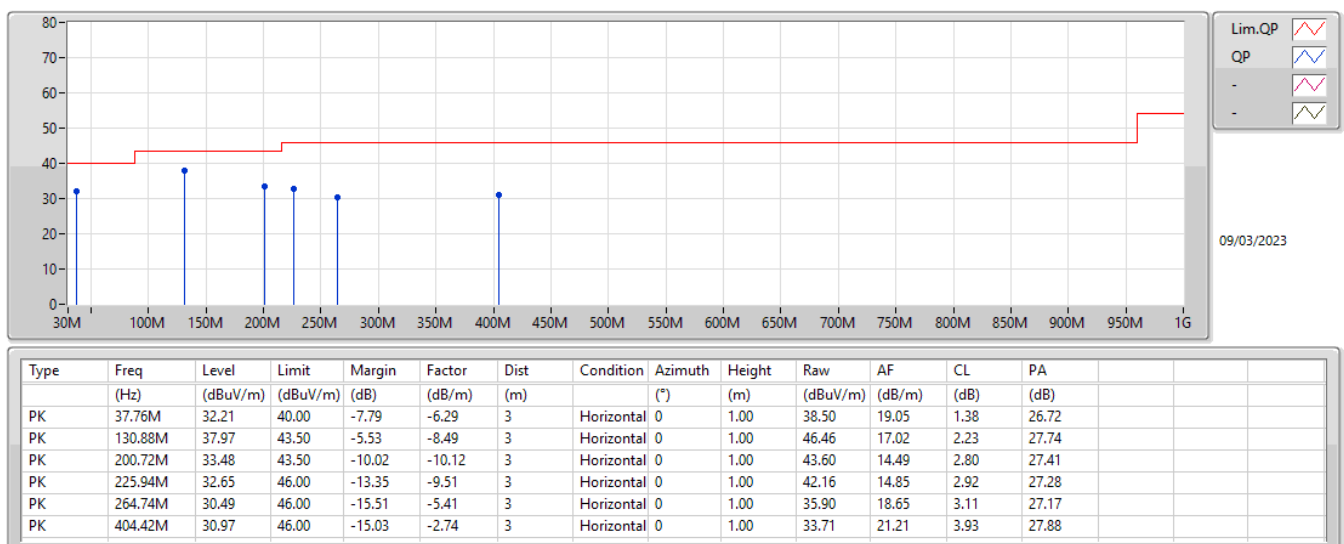
Radiated Emissions below 1GHz_Mode 4



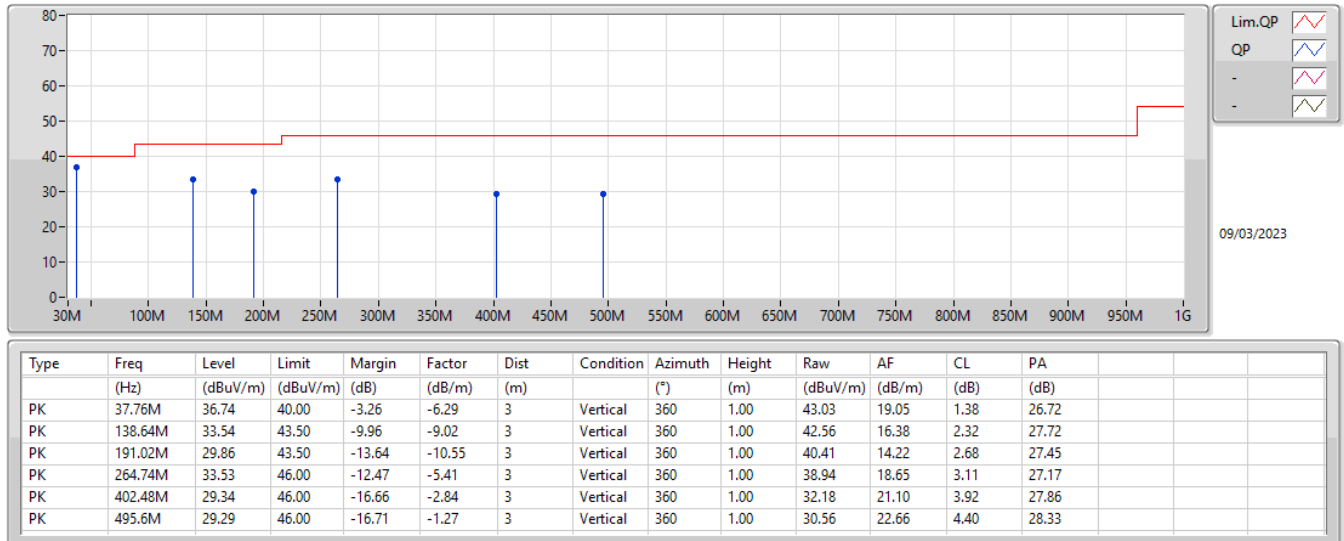
Radiated Emissions below 1GHz_Mode 5



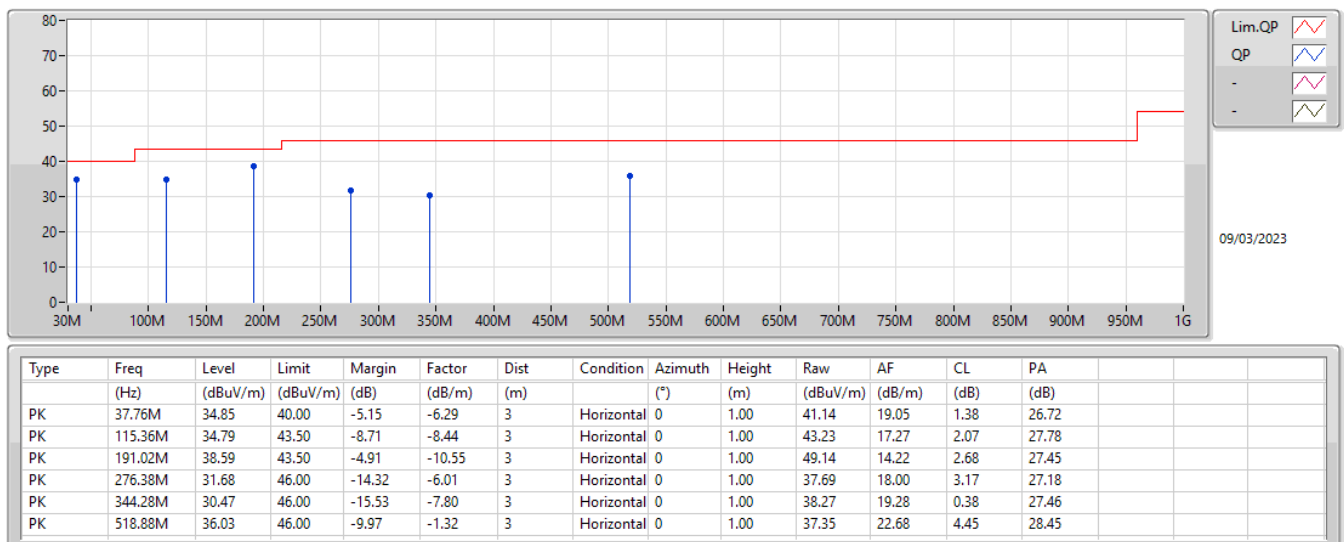
Radiated Emissions below 1GHz_Mode 5



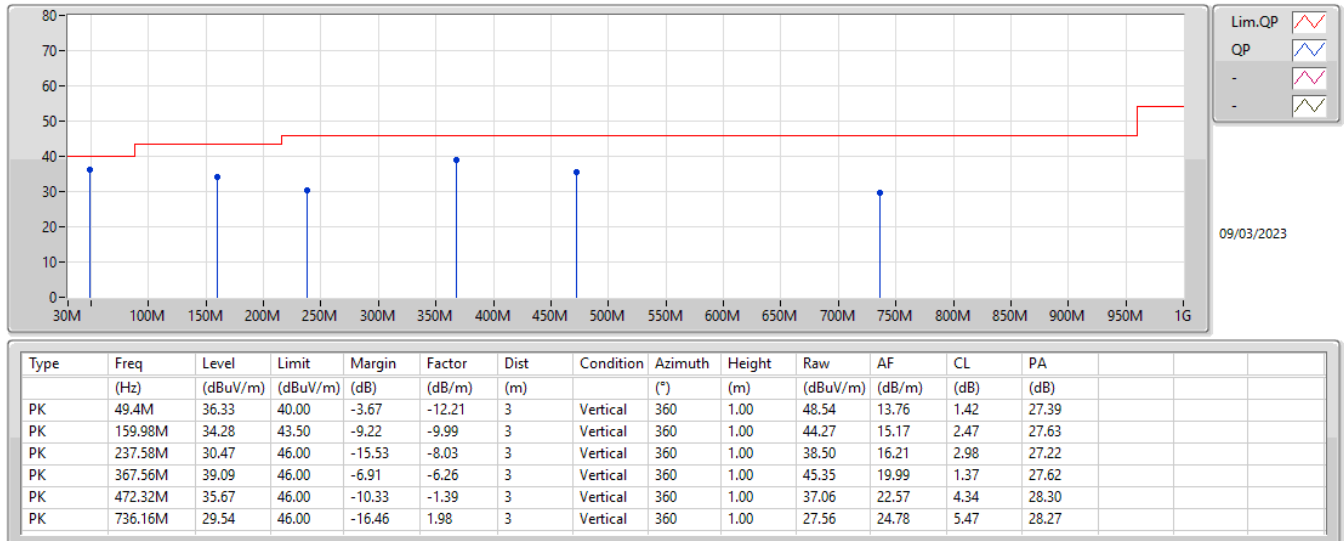
Radiated Emissions below 1GHz_Mode 6



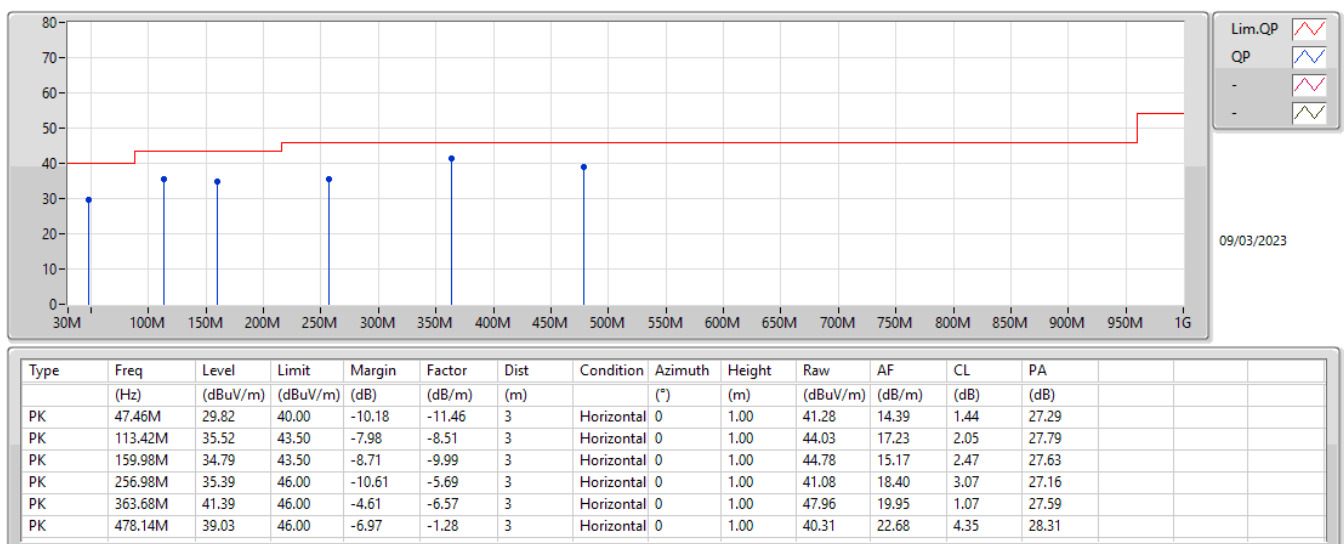
Radiated Emissions below 1GHz_Mode 6



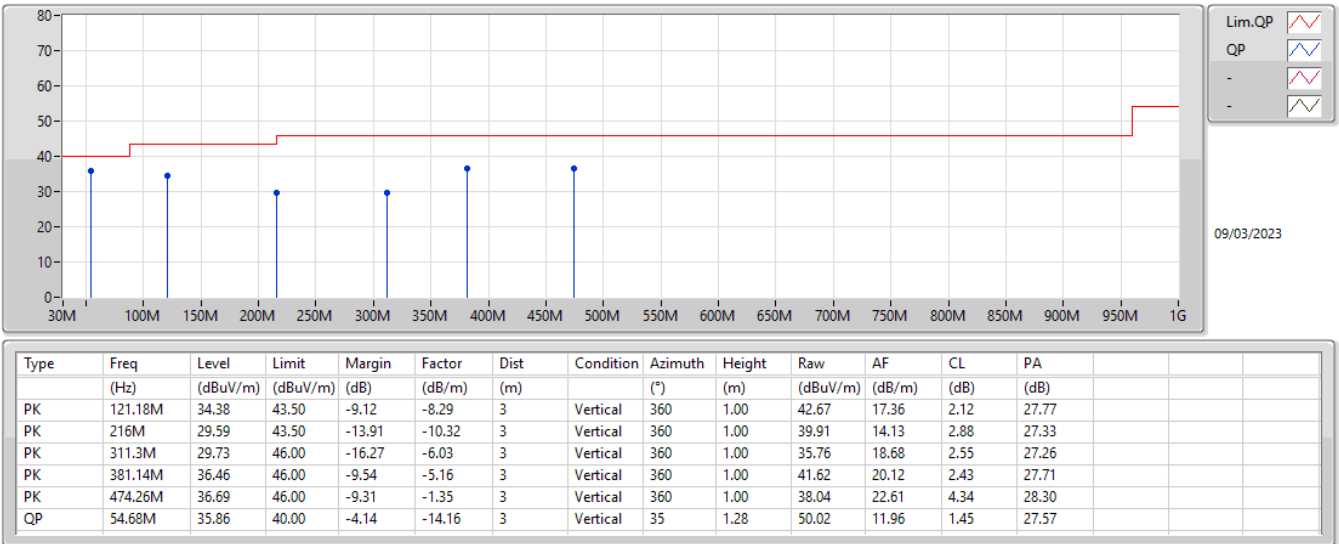
Radiated Emissions below 1GHz_Mode 7



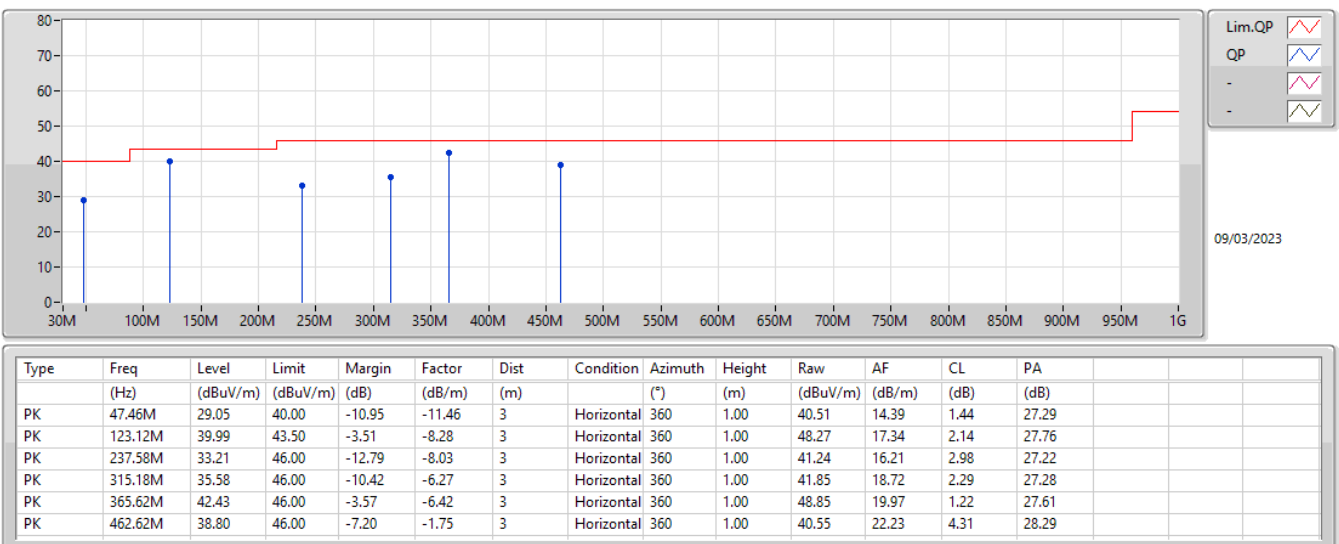
Radiated Emissions below 1GHz_Mode 7



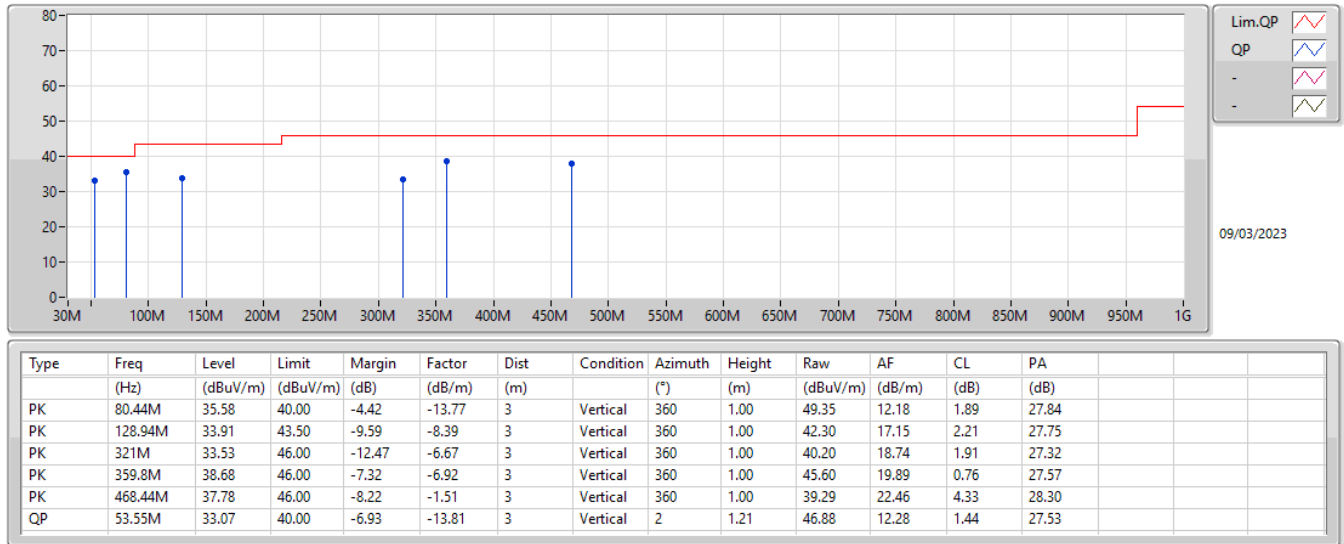
Radiated Emissions below 1GHz_Mode 8



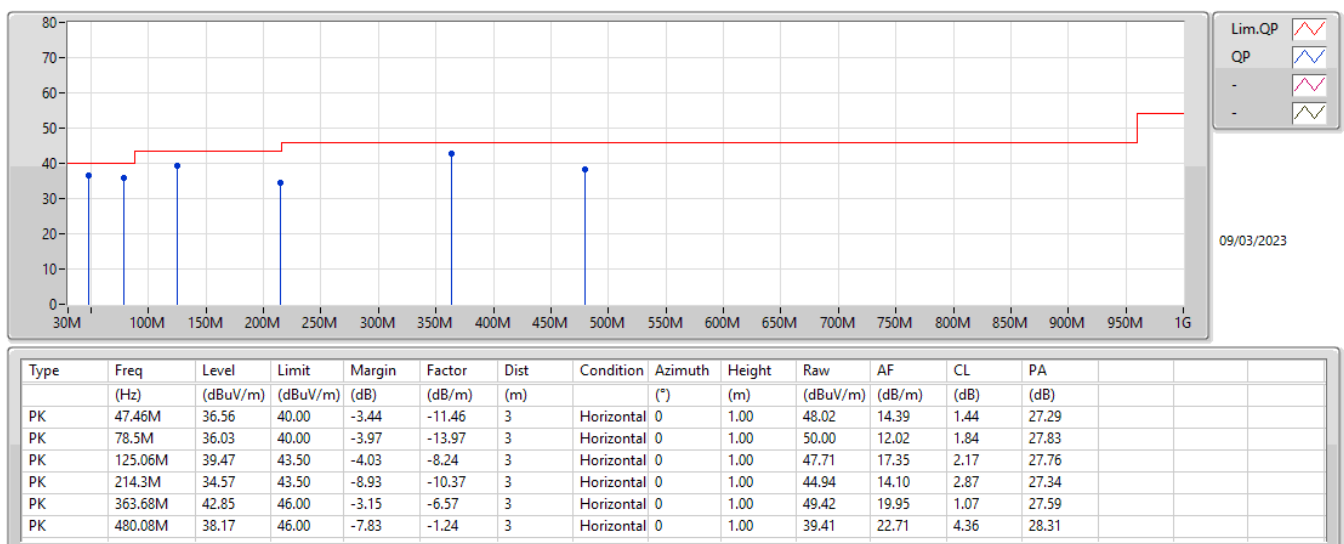
Radiated Emissions below 1GHz_Mode 8



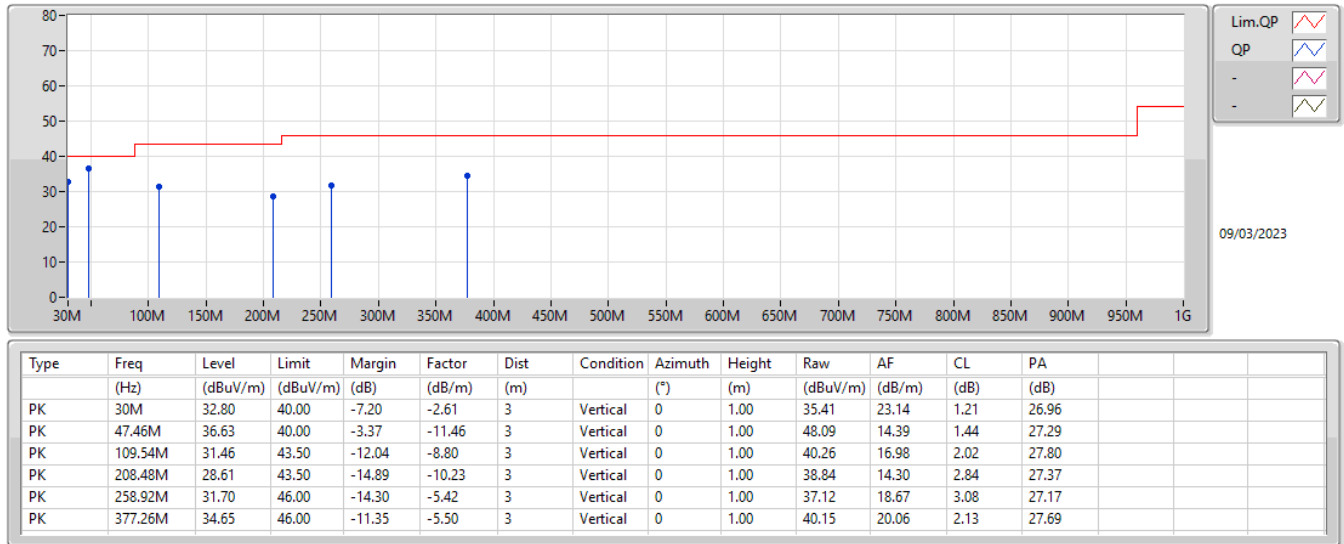
Radiated Emissions below 1GHz_Mode 9



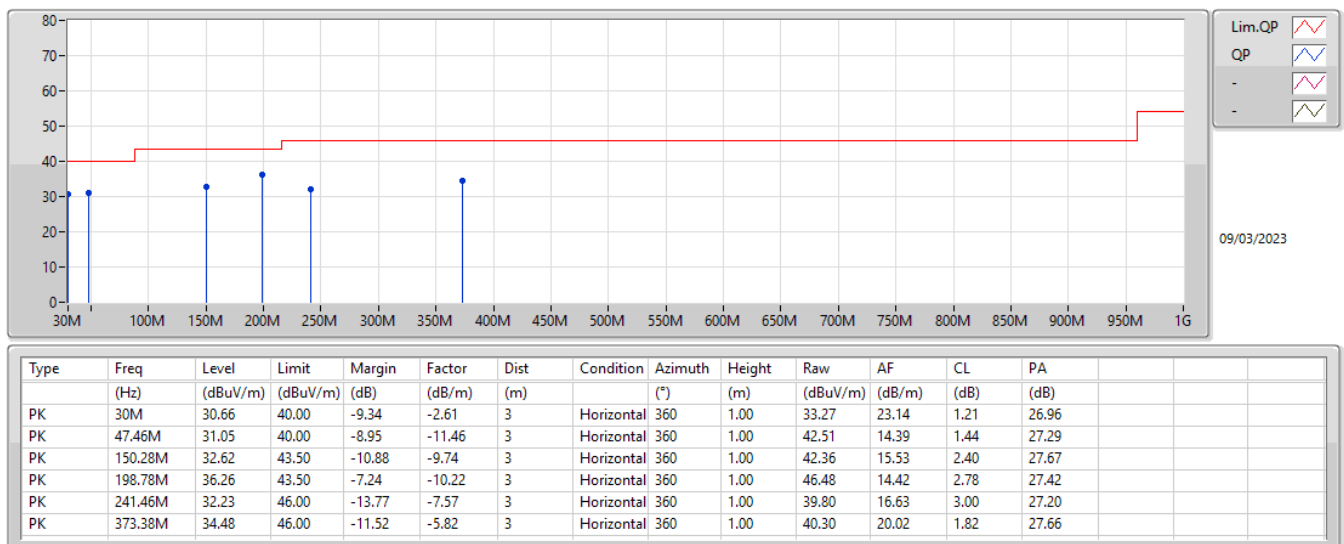
Radiated Emissions below 1GHz_Mode 9



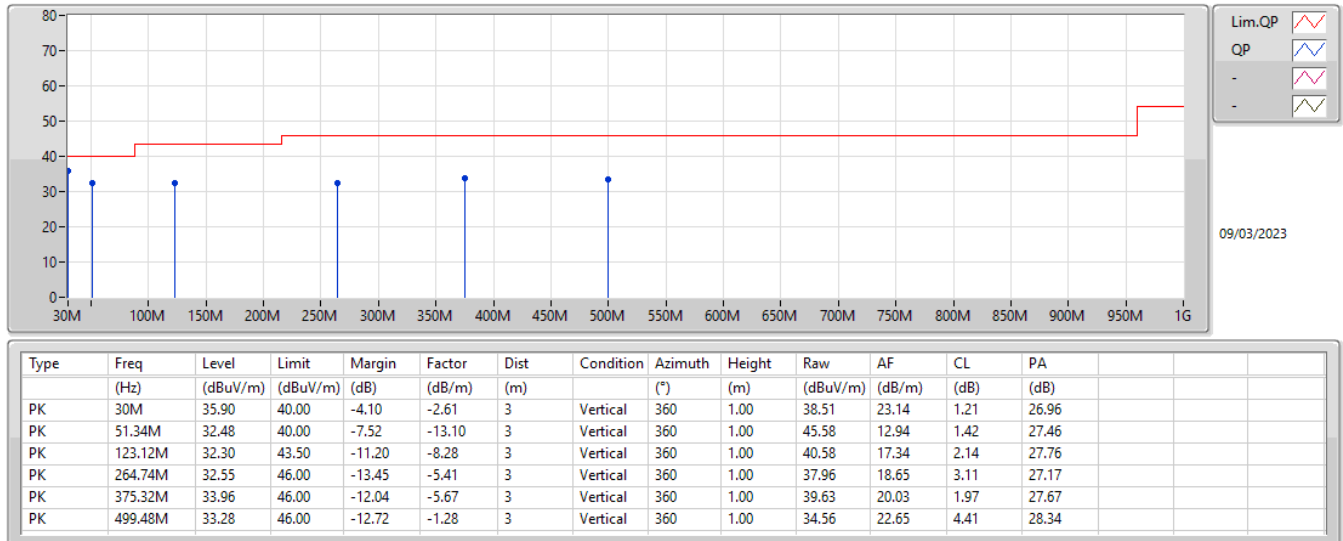
Radiated Emissions below 1GHz_Mode 10



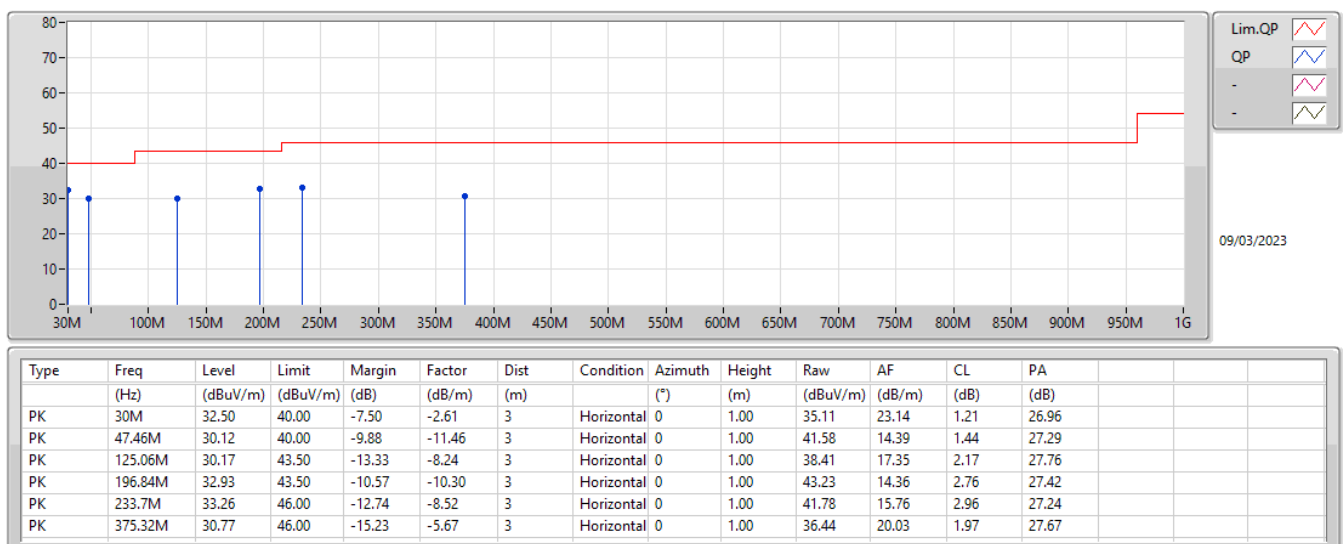
Radiated Emissions below 1GHz_Mode 10



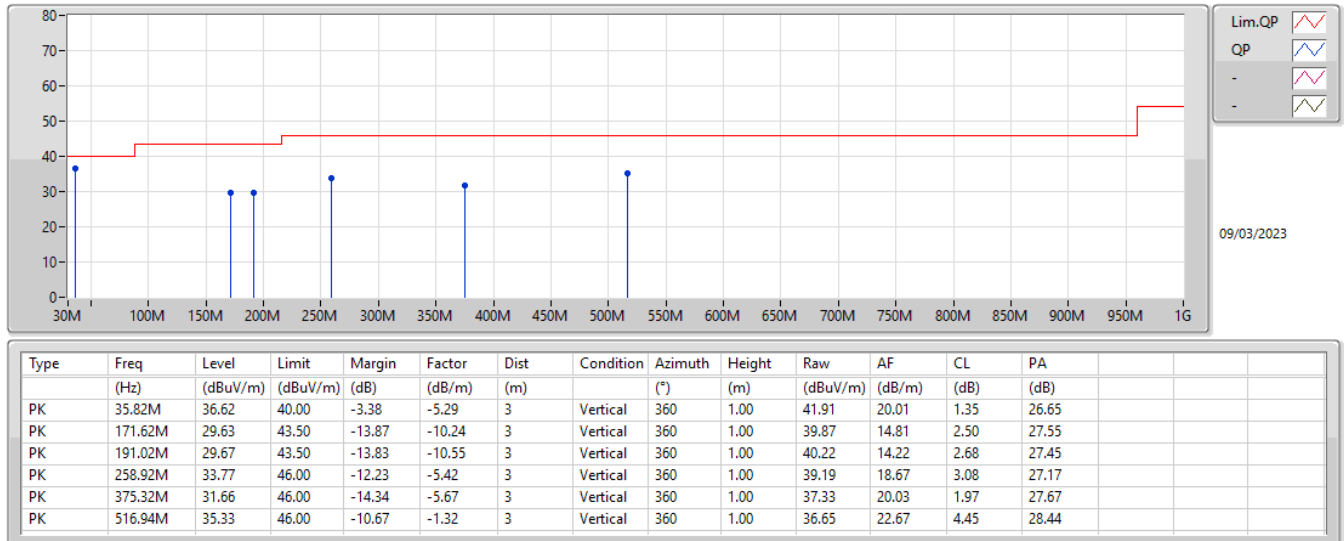
Radiated Emissions below 1GHz_Mode 11



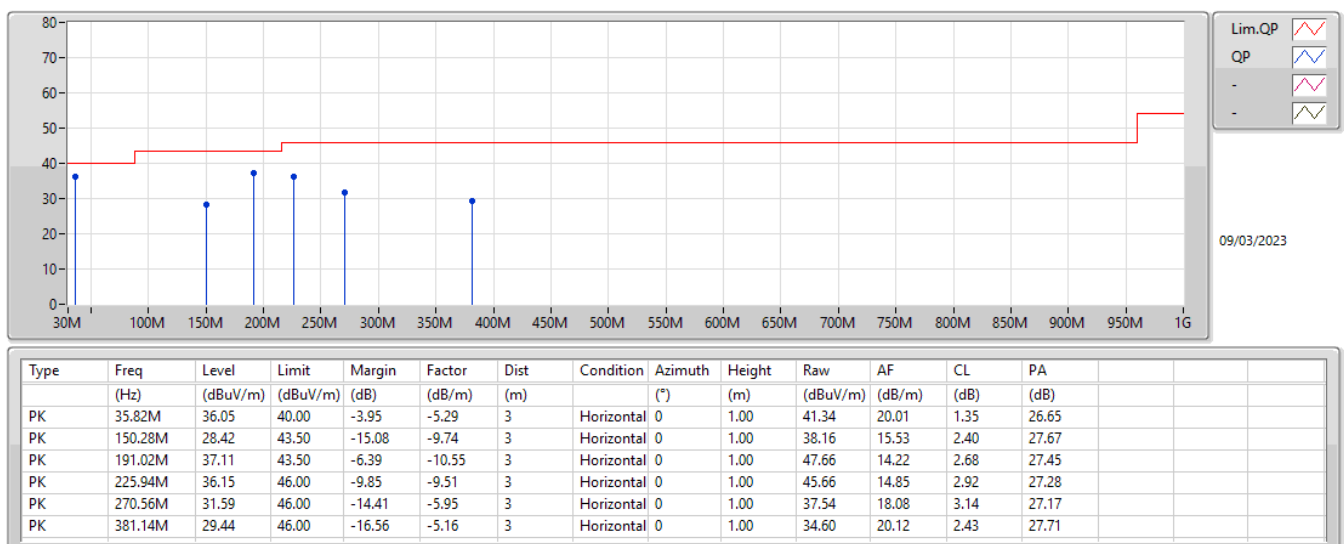
Radiated Emissions below 1GHz_Mode 11



Radiated Emissions below 1GHz_Mode 12



Radiated Emissions below 1GHz_Mode 12





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	4.80401G	50.76	54.00	-3.24	3	Horizontal	4	1.76
BT-LE(125kbps)	Pass	AV	4.804G	49.16	54.00	-4.84	3	Horizontal	354	1.00
BT-LE(500kbps)	Pass	AV	4.804G	50.03	54.00	-3.97	3	Horizontal	353	1.00
BT-LE(2Mbps)	Pass	AV	2.4835G	45.00	54.00	-9.00	3	Horizontal	4	2.22

Result

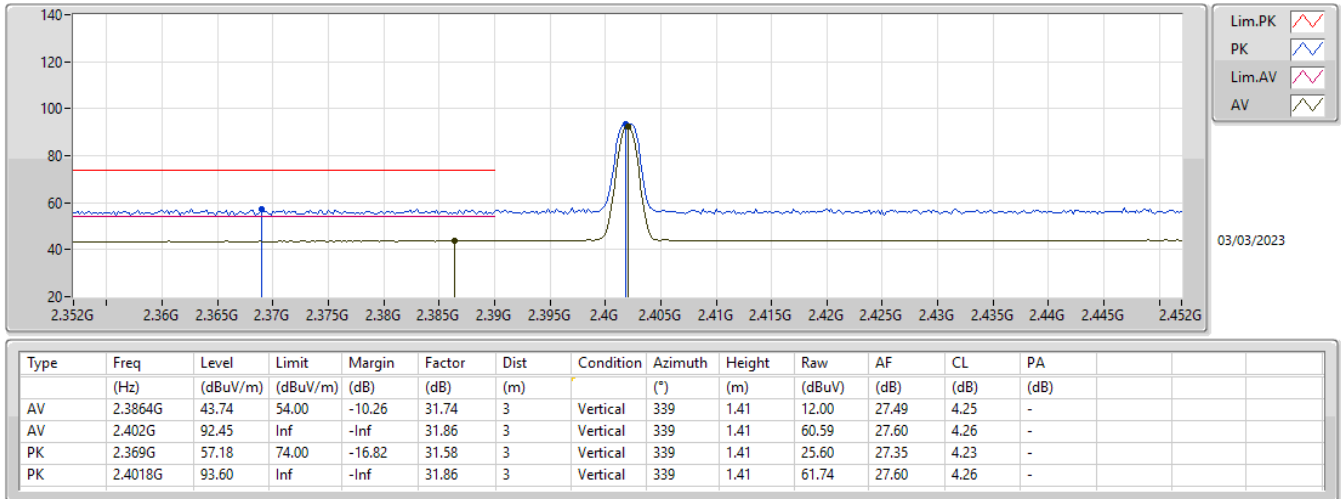
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3864G	43.74	54.00	-10.26	3	Vertical	339	1.41
2402MHz	Pass	AV	2.402G	92.45	Inf	-Inf	3	Vertical	339	1.41
2402MHz	Pass	PK	2.369G	57.18	74.00	-16.82	3	Vertical	339	1.41
2402MHz	Pass	PK	2.4018G	93.60	Inf	-Inf	3	Vertical	339	1.41
2402MHz	Pass	AV	2.3782G	43.88	54.00	-10.12	3	Horizontal	314	1.28
2402MHz	Pass	AV	2.402G	98.66	Inf	-Inf	3	Horizontal	314	1.28
2402MHz	Pass	PK	2.3546G	57.75	74.00	-16.25	3	Horizontal	314	1.28
2402MHz	Pass	PK	2.4018G	99.74	Inf	-Inf	3	Horizontal	314	1.28
2402MHz	Pass	AV	4.80399G	43.91	54.00	-10.09	3	Vertical	349	1.75
2402MHz	Pass	PK	4.80397G	50.34	74.00	-23.66	3	Vertical	349	1.75
2402MHz	Pass	AV	4.80401G	50.76	54.00	-3.24	3	Horizontal	4	1.76
2402MHz	Pass	PK	4.80447G	55.81	74.00	-18.19	3	Horizontal	4	1.76
2440MHz	Pass	AV	2.3828G	43.75	54.00	-10.25	3	Vertical	296	2.01
2440MHz	Pass	AV	2.44G	90.20	Inf	-Inf	3	Vertical	296	2.01
2440MHz	Pass	AV	2.4964G	44.33	54.00	-9.67	3	Vertical	296	2.01
2440MHz	Pass	PK	2.3588G	57.93	74.00	-16.07	3	Vertical	296	2.01
2440MHz	Pass	PK	2.4396G	91.32	Inf	-Inf	3	Vertical	296	2.01
2440MHz	Pass	PK	2.4936G	57.99	74.00	-16.01	3	Vertical	296	2.01
2440MHz	Pass	AV	2.3844G	43.78	54.00	-10.22	3	Horizontal	308	1.39
2440MHz	Pass	AV	2.44G	95.50	Inf	-Inf	3	Horizontal	308	1.39
2440MHz	Pass	AV	2.4952G	44.37	54.00	-9.63	3	Horizontal	308	1.39
2440MHz	Pass	PK	2.3488G	57.47	74.00	-16.53	3	Horizontal	308	1.39
2440MHz	Pass	PK	2.4396G	96.61	Inf	-Inf	3	Horizontal	308	1.39
2440MHz	Pass	PK	2.4872G	57.18	74.00	-16.82	3	Horizontal	308	1.39
2440MHz	Pass	AV	4.87999G	40.01	54.00	-13.99	3	Vertical	349	2.10
2440MHz	Pass	PK	4.88044G	48.14	74.00	-25.86	3	Vertical	349	2.10
2440MHz	Pass	AV	4.88172G	27.10	54.00	-26.90	3	Horizontal	-0	1.50
2440MHz	Pass	PK	4.87887G	41.01	74.00	-32.99	3	Horizontal	-0	1.50
2480MHz	Pass	AV	2.48G	88.96	Inf	-Inf	3	Vertical	285	2.61
2480MHz	Pass	AV	2.497G	44.33	54.00	-9.67	3	Vertical	285	2.61
2480MHz	Pass	PK	2.4802G	90.13	Inf	-Inf	3	Vertical	285	2.61
2480MHz	Pass	PK	2.4876G	57.81	74.00	-16.19	3	Vertical	285	2.61
2480MHz	Pass	AV	2.48G	93.65	Inf	-Inf	3	Horizontal	4	1.66
2480MHz	Pass	AV	2.4922G	44.34	54.00	-9.66	3	Horizontal	4	1.66
2480MHz	Pass	PK	2.4798G	94.81	Inf	-Inf	3	Horizontal	4	1.66
2480MHz	Pass	PK	2.4876G	58.89	74.00	-15.11	3	Horizontal	4	1.66
2480MHz	Pass	AV	4.95999G	37.12	54.00	-16.88	3	Vertical	27	1.68
2480MHz	Pass	PK	4.95951G	47.00	74.00	-27.00	3	Vertical	27	1.68
2480MHz	Pass	AV	4.95998G	41.45	54.00	-12.55	3	Horizontal	28	1.32
2480MHz	Pass	PK	4.95942G	49.27	74.00	-24.73	3	Horizontal	28	1.32
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.381G	43.81	54.00	-10.19	3	Vertical	338	1.43
2402MHz	Pass	AV	2.402G	90.22	Inf	-Inf	3	Vertical	338	1.43
2402MHz	Pass	PK	2.3532G	57.18	74.00	-16.82	3	Vertical	338	1.43
2402MHz	Pass	PK	2.4014G	93.29	Inf	-Inf	3	Vertical	338	1.43
2402MHz	Pass	AV	2.3778G	43.85	54.00	-10.15	3	Horizontal	307	1.50
2402MHz	Pass	AV	2.402G	96.34	Inf	-Inf	3	Horizontal	307	1.50
2402MHz	Pass	PK	2.3892G	58.55	74.00	-15.45	3	Horizontal	307	1.50
2402MHz	Pass	PK	2.4014G	99.37	Inf	-Inf	3	Horizontal	307	1.50
2402MHz	Pass	AV	4.80305G	39.18	54.00	-14.82	3	Vertical	350	1.81
2402MHz	Pass	PK	4.80508G	49.78	74.00	-24.22	3	Vertical	350	1.81
2402MHz	Pass	AV	4.80443G	44.61	54.00	-9.39	3	Horizontal	14	1.10
2402MHz	Pass	PK	4.80501G	54.90	74.00	-19.10	3	Horizontal	14	1.10
2440MHz	Pass	AV	2.3884G	43.74	54.00	-10.26	3	Vertical	298	2.01
2440MHz	Pass	AV	2.44G	87.81	Inf	-Inf	3	Vertical	298	2.01
2440MHz	Pass	AV	2.4996G	44.33	54.00	-9.67	3	Vertical	298	2.01
2440MHz	Pass	PK	2.3436G	57.55	74.00	-16.45	3	Vertical	298	2.01
2440MHz	Pass	PK	2.4396G	90.99	Inf	-Inf	3	Vertical	298	2.01
2440MHz	Pass	PK	2.4936G	57.15	74.00	-16.85	3	Vertical	298	2.01
2440MHz	Pass	AV	2.39G	43.87	54.00	-10.13	3	Horizontal	308	1.33

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2440MHz	Pass	AV	2.44G	93.51	Inf	-Inf	3	Horizontal	308	1.33
2440MHz	Pass	AV	2.4988G	44.39	54.00	-9.61	3	Horizontal	308	1.33
2440MHz	Pass	PK	2.3736G	57.59	74.00	-16.41	3	Horizontal	308	1.33
2440MHz	Pass	PK	2.4396G	96.57	Inf	-Inf	3	Horizontal	308	1.33
2440MHz	Pass	PK	2.4888G	57.70	74.00	-16.30	3	Horizontal	308	1.33
2440MHz	Pass	AV	4.88092G	36.74	54.00	-17.26	3	Vertical	350	1.50
2440MHz	Pass	PK	4.88107G	48.34	74.00	-25.66	3	Vertical	350	1.50
2440MHz	Pass	AV	4.87903G	41.26	54.00	-12.74	3	Horizontal	28	1.86
2440MHz	Pass	PK	4.88102G	51.66	74.00	-22.34	3	Horizontal	28	1.86
2480MHz	Pass	AV	2.48G	87.31	Inf	-Inf	3	Vertical	284	2.61
2480MHz	Pass	AV	2.4835G	44.57	54.00	-9.43	3	Vertical	284	2.61
2480MHz	Pass	PK	2.4796G	90.49	Inf	-Inf	3	Vertical	284	2.61
2480MHz	Pass	PK	2.494G	57.72	74.00	-16.28	3	Vertical	284	2.61
2480MHz	Pass	AV	2.48G	91.93	Inf	-Inf	3	Horizontal	4	2.22
2480MHz	Pass	AV	2.4835G	45.00	54.00	-9.00	3	Horizontal	4	2.22
2480MHz	Pass	PK	2.4794G	95.16	Inf	-Inf	3	Horizontal	4	2.22
2480MHz	Pass	PK	2.487G	58.11	74.00	-15.89	3	Horizontal	4	2.22
2480MHz	Pass	AV	4.96096G	34.20	54.00	-19.80	3	Vertical	29	1.44
2480MHz	Pass	PK	4.96098G	45.93	74.00	-28.07	3	Vertical	29	1.44
2480MHz	Pass	AV	4.95905G	37.96	54.00	-16.04	3	Horizontal	26	1.31
2480MHz	Pass	PK	4.95898G	49.26	74.00	-24.74	3	Horizontal	26	1.31
BT-LE(125kbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3864G	43.79	54.00	-10.21	3	Vertical	339	1.42
2402MHz	Pass	AV	2.402G	91.73	Inf	-Inf	3	Vertical	339	1.42
2402MHz	Pass	PK	2.3846G	58.02	74.00	-15.98	3	Vertical	339	1.42
2402MHz	Pass	PK	2.4018G	93.03	Inf	-Inf	3	Vertical	339	1.42
2402MHz	Pass	AV	2.378G	43.95	54.00	-10.05	3	Horizontal	308	1.49
2402MHz	Pass	AV	2.402G	98.12	Inf	-Inf	3	Horizontal	308	1.49
2402MHz	Pass	PK	2.3688G	57.23	74.00	-16.77	3	Horizontal	308	1.49
2402MHz	Pass	PK	2.4018G	99.36	Inf	-Inf	3	Horizontal	308	1.49
2402MHz	Pass	AV	4.804G	42.93	54.00	-11.07	3	Vertical	350	1.81
2402MHz	Pass	PK	4.80355G	50.00	74.00	-24.00	3	Vertical	350	1.81
2402MHz	Pass	AV	4.804G	49.16	54.00	-4.84	3	Horizontal	354	1.00
2402MHz	Pass	PK	4.80446G	55.09	74.00	-18.91	3	Horizontal	354	1.00
2440MHz	Pass	AV	2.3884G	43.75	54.00	-10.25	3	Vertical	298	2.01
2440MHz	Pass	AV	2.44G	89.63	Inf	-Inf	3	Vertical	298	2.01
2440MHz	Pass	AV	2.4996G	44.31	54.00	-9.69	3	Vertical	298	2.01
2440MHz	Pass	PK	2.3692G	57.62	74.00	-16.38	3	Vertical	298	2.01
2440MHz	Pass	PK	2.4396G	90.99	Inf	-Inf	3	Vertical	298	2.01
2440MHz	Pass	PK	2.4976G	57.96	74.00	-16.04	3	Vertical	298	2.01
2440MHz	Pass	AV	2.3872G	43.80	54.00	-10.20	3	Horizontal	308	1.38
2440MHz	Pass	AV	2.44G	95.28	Inf	-Inf	3	Horizontal	308	1.38
2440MHz	Pass	AV	2.4968G	44.39	54.00	-9.61	3	Horizontal	308	1.38
2440MHz	Pass	PK	2.3852G	57.93	74.00	-16.07	3	Horizontal	308	1.38
2440MHz	Pass	PK	2.4396G	96.57	Inf	-Inf	3	Horizontal	308	1.38
2440MHz	Pass	PK	2.4864G	57.68	74.00	-16.32	3	Horizontal	308	1.38
2440MHz	Pass	AV	4.88G	40.42	54.00	-13.58	3	Vertical	345	2.10
2440MHz	Pass	PK	4.88057G	48.36	74.00	-25.64	3	Vertical	345	2.10
2440MHz	Pass	AV	4.88G	45.59	54.00	-8.41	3	Horizontal	351	1.41
2440MHz	Pass	PK	4.88051G	52.25	74.00	-21.75	3	Horizontal	351	1.41
2480MHz	Pass	AV	2.48G	88.87	Inf	-Inf	3	Vertical	285	2.60
2480MHz	Pass	AV	2.4924G	44.31	54.00	-9.69	3	Vertical	285	2.60
2480MHz	Pass	PK	2.4798G	90.24	Inf	-Inf	3	Vertical	285	2.60
2480MHz	Pass	PK	2.4894G	58.37	74.00	-15.63	3	Vertical	285	2.60
2480MHz	Pass	AV	2.48G	93.67	Inf	-Inf	3	Horizontal	5	2.24
2480MHz	Pass	AV	2.4838G	44.41	54.00	-9.59	3	Horizontal	5	2.24
2480MHz	Pass	PK	2.4798G	94.99	Inf	-Inf	3	Horizontal	5	2.24
2480MHz	Pass	PK	2.4946G	57.63	74.00	-16.37	3	Horizontal	5	2.24
2480MHz	Pass	AV	4.95998G	36.36	54.00	-17.64	3	Vertical	28	1.52
2480MHz	Pass	PK	4.96057G	46.80	74.00	-27.20	3	Vertical	28	1.52
2480MHz	Pass	AV	4.96001G	41.31	54.00	-12.69	3	Horizontal	27	1.31
2480MHz	Pass	PK	4.95952G	49.67	74.00	-24.33	3	Horizontal	27	1.31

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(500kbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.385G	43.82	54.00	-10.18	3	Vertical	339	1.42
2402MHz	Pass	AV	2.402G	91.91	Inf	-Inf	3	Vertical	339	1.42
2402MHz	Pass	PK	2.3758G	58.31	74.00	-15.69	3	Vertical	339	1.42
2402MHz	Pass	PK	2.4018G	93.04	Inf	-Inf	3	Vertical	339	1.42
2402MHz	Pass	AV	2.3782G	43.91	54.00	-10.09	3	Horizontal	308	1.49
2402MHz	Pass	AV	2.402G	98.34	Inf	-Inf	3	Horizontal	308	1.49
2402MHz	Pass	PK	2.3566G	57.57	74.00	-16.43	3	Horizontal	308	1.49
2402MHz	Pass	PK	2.4018G	99.43	Inf	-Inf	3	Horizontal	308	1.49
2402MHz	Pass	AV	4.804G	43.58	54.00	-10.42	3	Vertical	350	1.80
2402MHz	Pass	PK	4.80349G	49.98	74.00	-24.02	3	Vertical	350	1.80
2402MHz	Pass	AV	4.804G	50.03	54.00	-3.97	3	Horizontal	353	1.00
2402MHz	Pass	PK	4.80352G	55.35	74.00	-18.65	3	Horizontal	353	1.00
2440MHz	Pass	AV	2.3876G	43.74	54.00	-10.26	3	Vertical	296	2.00
2440MHz	Pass	AV	2.44G	90.29	Inf	-Inf	3	Vertical	296	2.00
2440MHz	Pass	AV	2.4928G	44.33	54.00	-9.67	3	Vertical	296	2.00
2440MHz	Pass	PK	2.3644G	57.25	74.00	-16.75	3	Vertical	296	2.00
2440MHz	Pass	PK	2.4396G	91.44	Inf	-Inf	3	Vertical	296	2.00
2440MHz	Pass	PK	2.4892G	57.64	74.00	-16.36	3	Vertical	296	2.00
2440MHz	Pass	AV	2.3872G	43.75	54.00	-10.25	3	Horizontal	308	1.39
2440MHz	Pass	AV	2.44G	95.47	Inf	-Inf	3	Horizontal	308	1.39
2440MHz	Pass	AV	2.4884G	44.35	54.00	-9.65	3	Horizontal	308	1.39
2440MHz	Pass	PK	2.382G	57.19	74.00	-16.81	3	Horizontal	308	1.39
2440MHz	Pass	PK	2.4396G	96.55	Inf	-Inf	3	Horizontal	308	1.39
2440MHz	Pass	PK	2.4852G	57.37	74.00	-16.63	3	Horizontal	308	1.39
2440MHz	Pass	AV	4.88002G	39.89	54.00	-14.11	3	Vertical	30	1.50
2440MHz	Pass	PK	4.8795G	47.73	74.00	-26.27	3	Vertical	30	1.50
2440MHz	Pass	AV	4.87999G	45.32	54.00	-8.68	3	Horizontal	351	1.00
2440MHz	Pass	PK	4.88064G	51.53	74.00	-22.47	3	Horizontal	351	1.00
2480MHz	Pass	AV	2.48G	89.39	Inf	-Inf	3	Vertical	284	2.61
2480MHz	Pass	AV	2.499G	44.36	54.00	-9.64	3	Vertical	284	2.61
2480MHz	Pass	PK	2.4798G	90.56	Inf	-Inf	3	Vertical	284	2.61
2480MHz	Pass	PK	2.4874G	57.23	74.00	-16.77	3	Vertical	284	2.61
2480MHz	Pass	AV	2.48G	93.97	Inf	-Inf	3	Horizontal	4	2.22
2480MHz	Pass	AV	2.4998G	44.41	54.00	-9.59	3	Horizontal	4	2.22
2480MHz	Pass	PK	2.4798G	95.12	Inf	-Inf	3	Horizontal	4	2.22
2480MHz	Pass	PK	2.4912G	57.79	74.00	-16.21	3	Horizontal	4	2.22
2480MHz	Pass	AV	4.96019G	28.25	54.00	-25.75	3	Vertical	28	1.44
2480MHz	Pass	PK	4.96058G	41.33	74.00	-32.67	3	Vertical	28	1.44
2480MHz	Pass	AV	4.95999G	40.10	54.00	-13.90	3	Horizontal	28	1.19
2480MHz	Pass	PK	4.96061G	48.43	74.00	-25.57	3	Horizontal	28	1.19

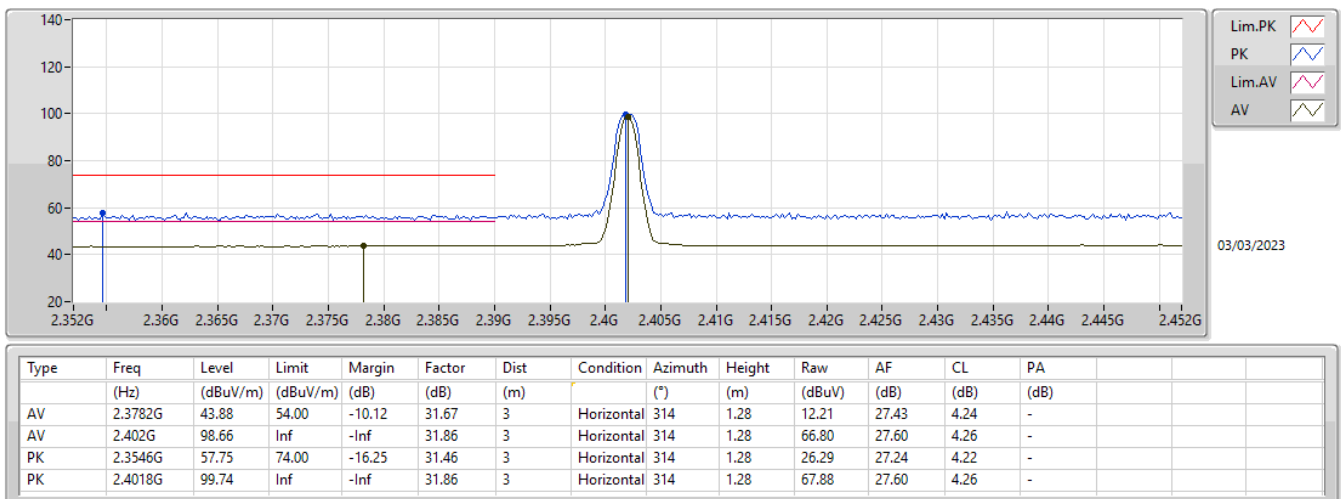
2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX



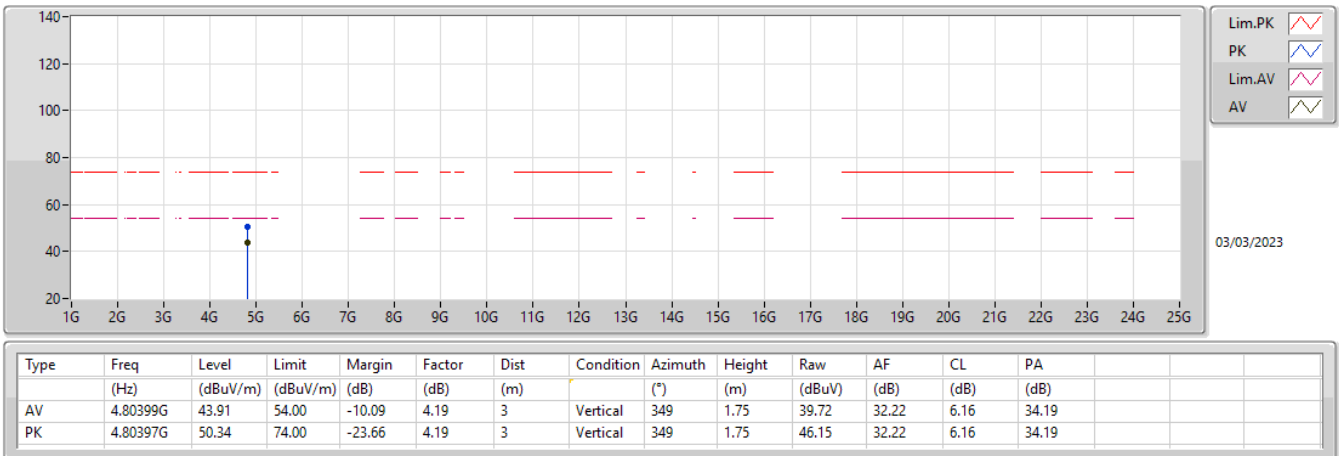
2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX



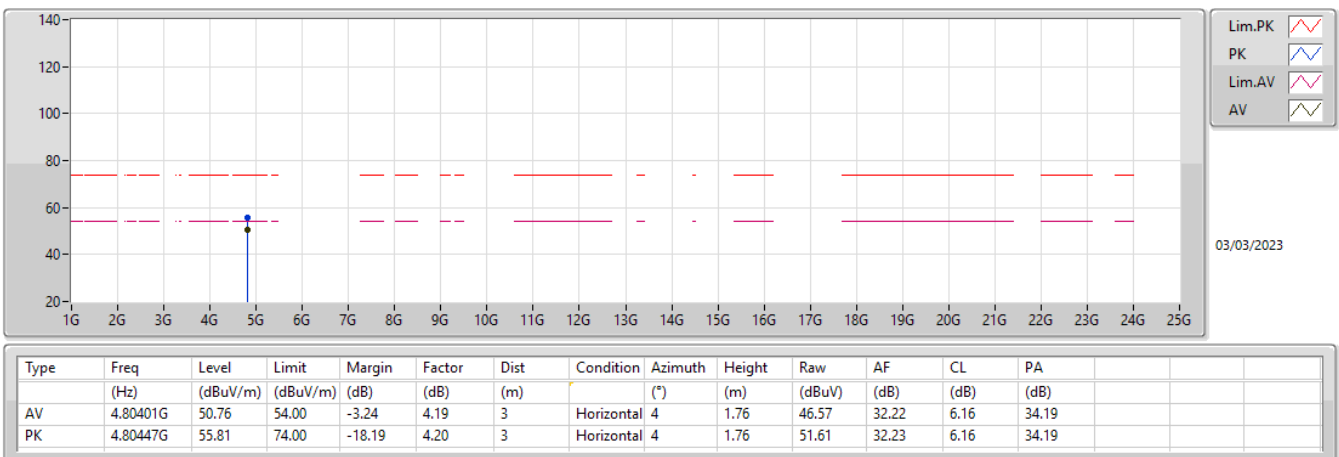
2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX



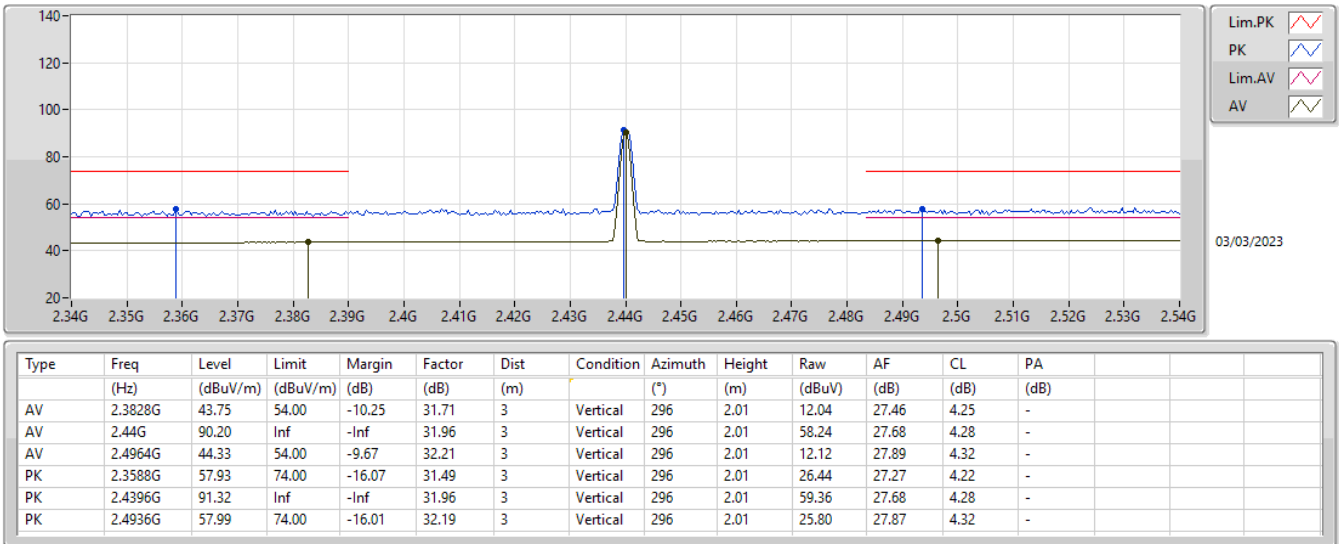
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2402MHz_TX



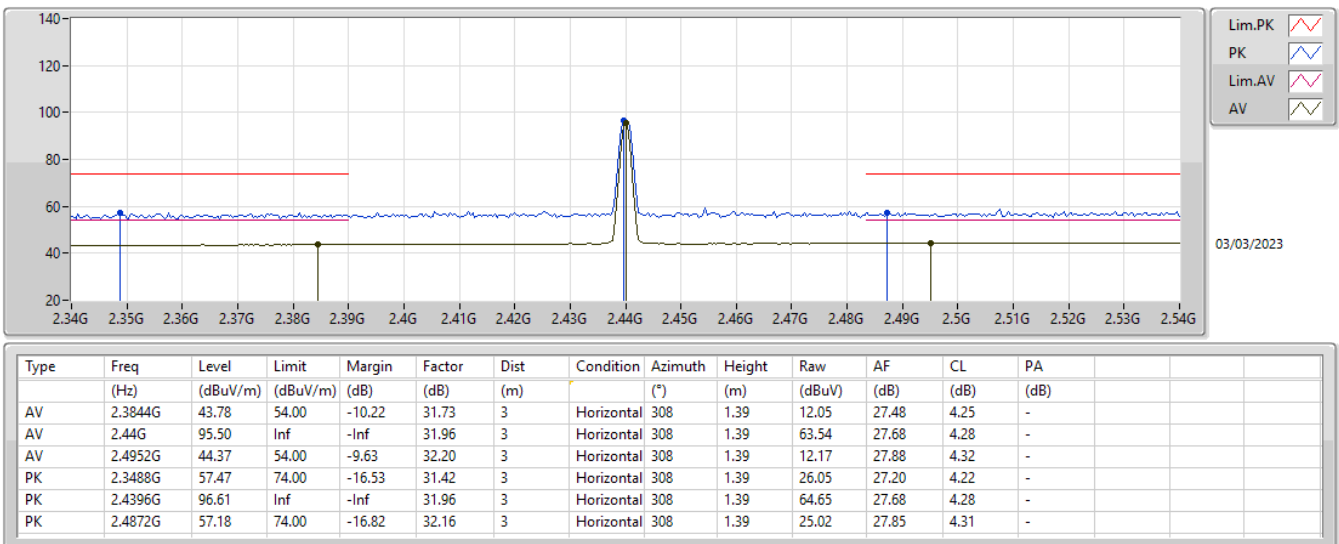
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2440MHz_TX



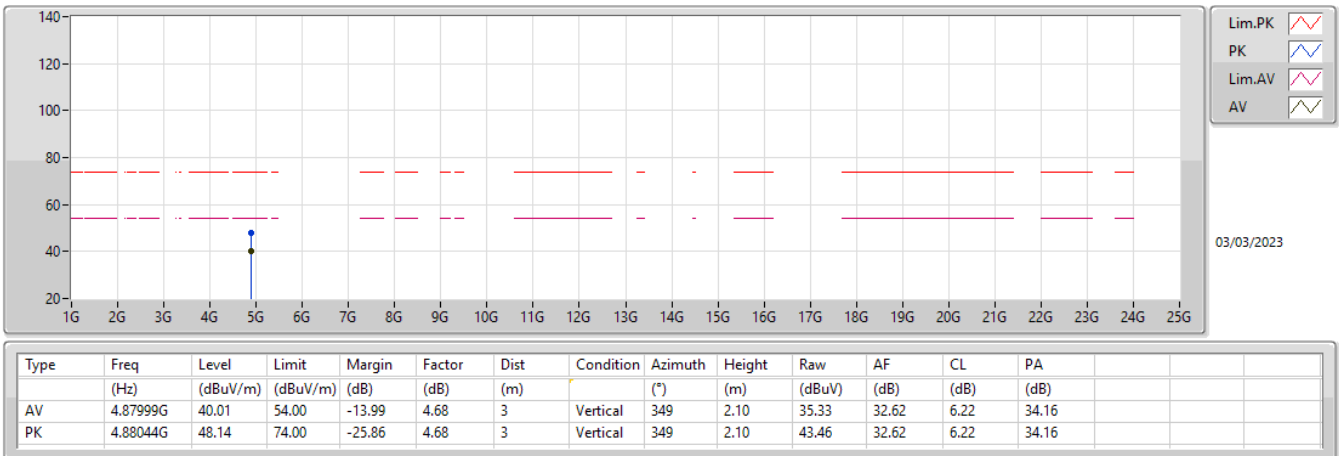
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2440MHz_TX



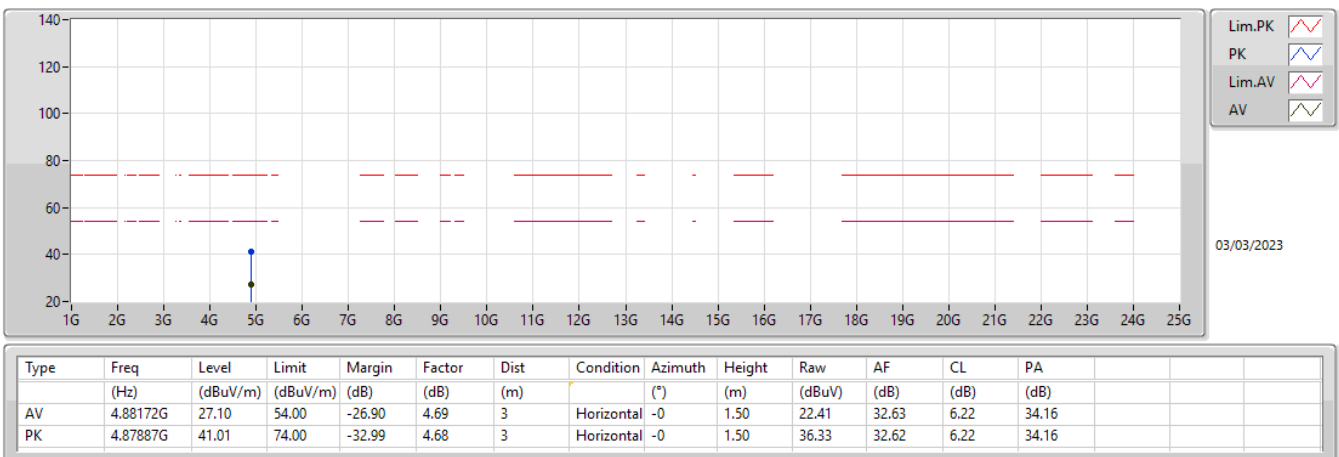
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2440MHz_TX



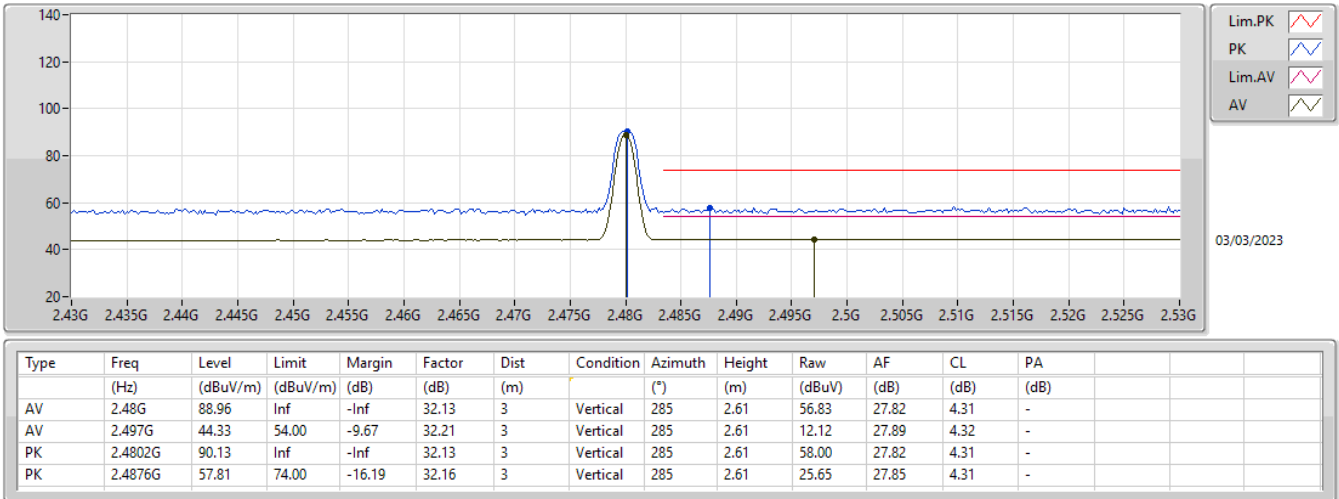
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2440MHz_TX



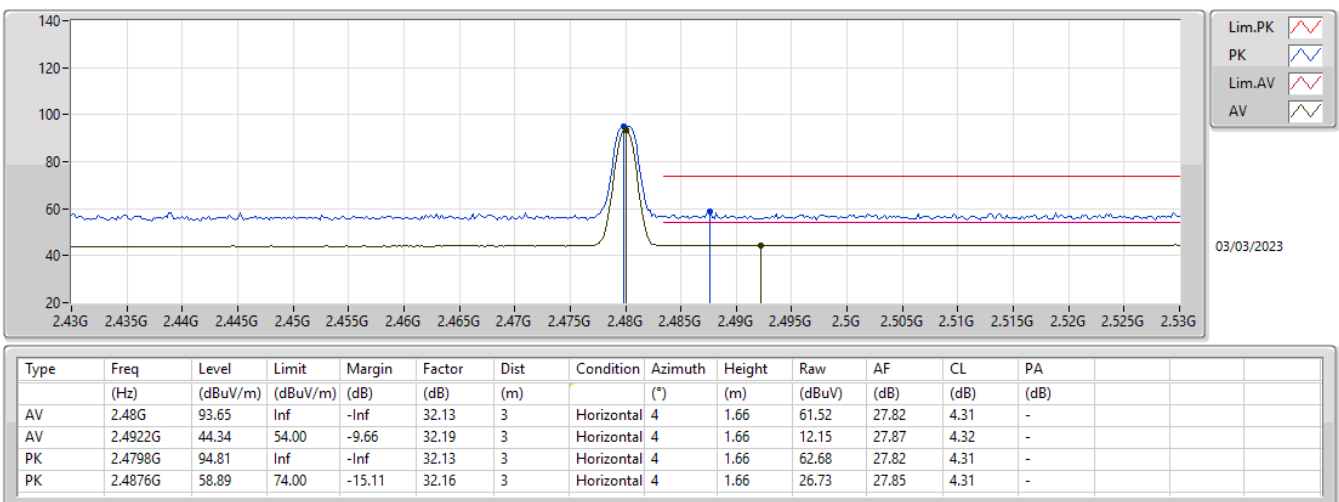
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2480MHz_TX



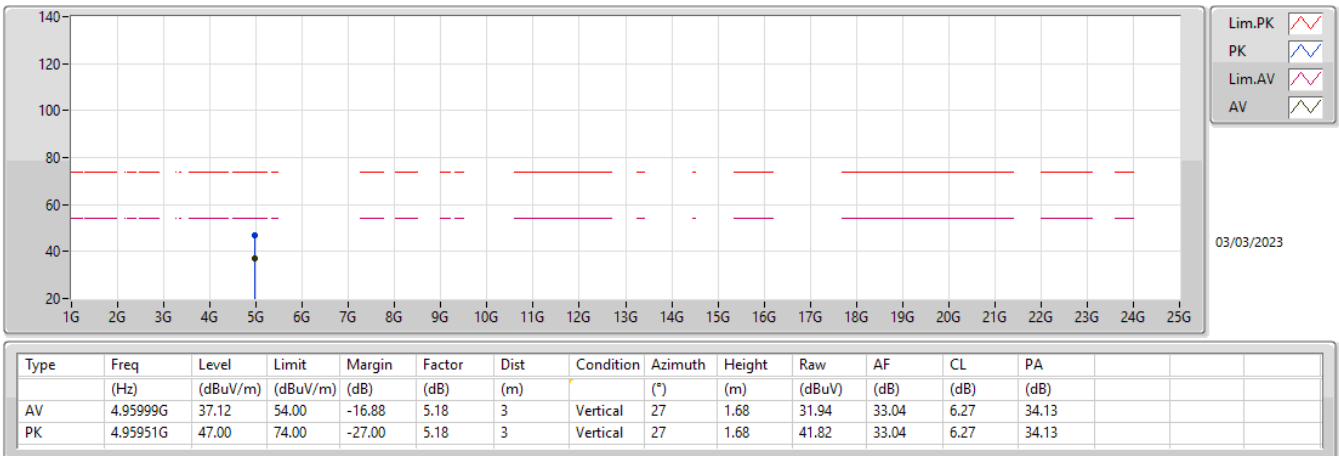
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2480MHz_TX



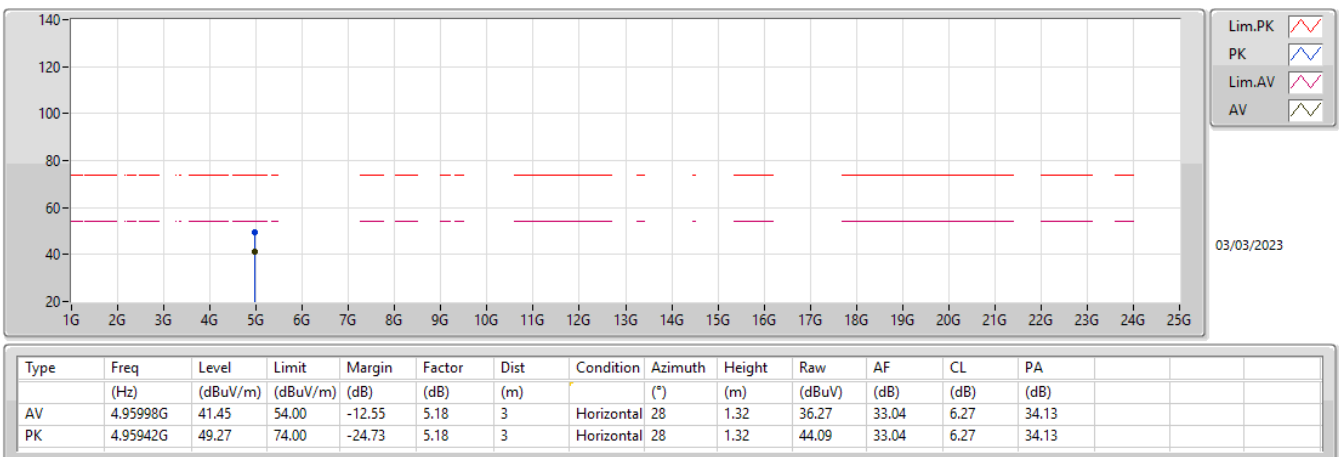
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2480MHz_TX



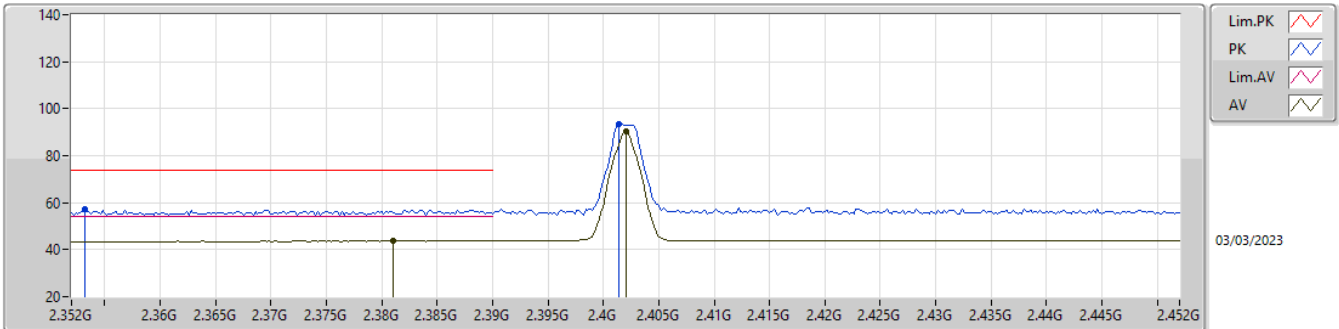
2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX



2.4-2.4835GHz_BT-LE(2Mbps)

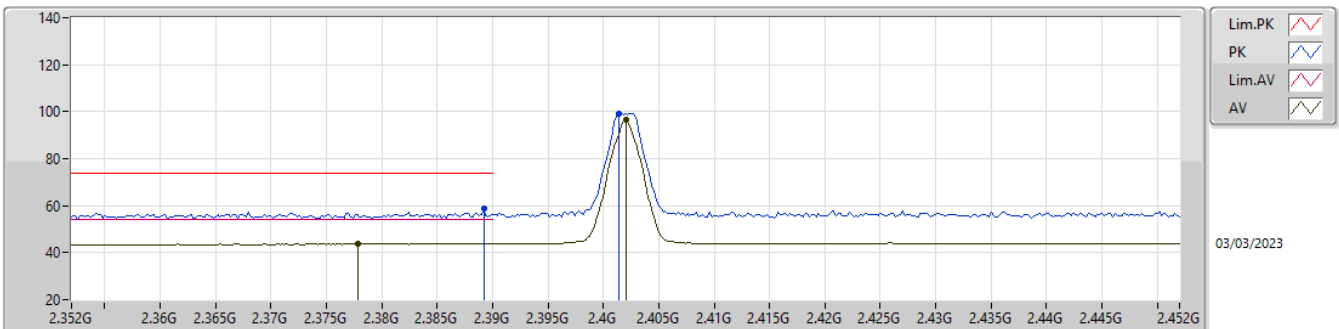
2402MHz_TX



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	2.381G	43.81	54.00	-10.19	31.69	3	Vertical	338	1.43	12.12	27.45	4.24	-
AV	2.402G	90.22	Inf	-Inf	31.86	3	Vertical	338	1.43	58.36	27.60	4.26	-
PK	2.3532G	57.18	74.00	-16.82	31.45	3	Vertical	338	1.43	25.73	27.23	4.22	-
PK	2.4014G	93.29	Inf	-Inf	31.86	3	Vertical	338	1.43	61.43	27.60	4.26	-

2.4-2.4835GHz_BT-LE(2Mbps)

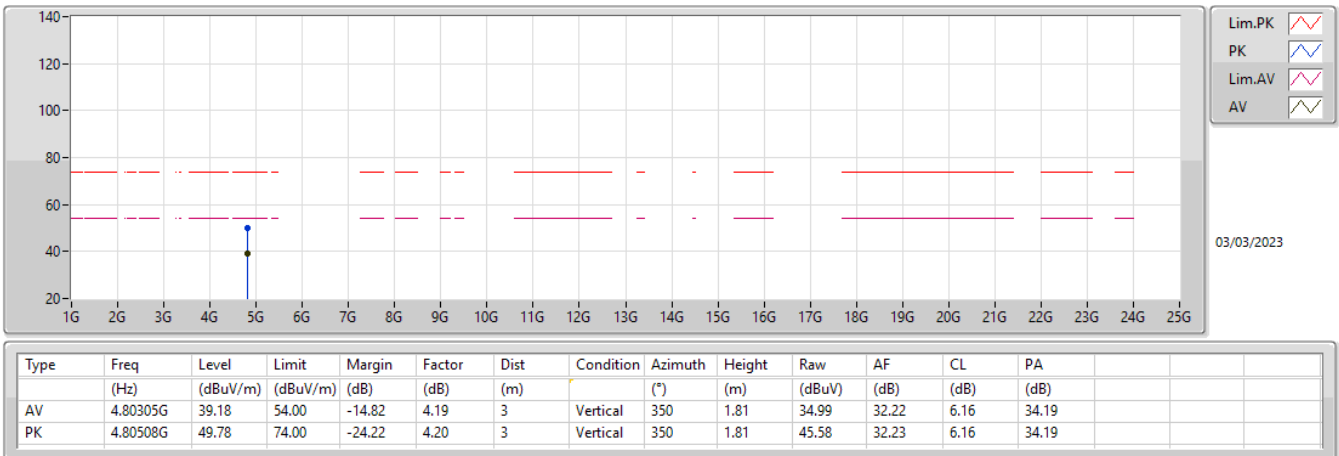
2402MHz_TX



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	2.3778G	43.85	54.00	-10.15	31.66	3	Horizontal	307	1.50	12.19	27.42	4.24	-
AV	2.402G	96.34	Inf	-Inf	31.86	3	Horizontal	307	1.50	64.48	27.60	4.26	-
PK	2.3892G	58.55	74.00	-15.45	31.76	3	Horizontal	307	1.50	26.79	27.51	4.25	-
PK	2.4014G	99.37	Inf	-Inf	31.86	3	Horizontal	307	1.50	67.51	27.60	4.26	-

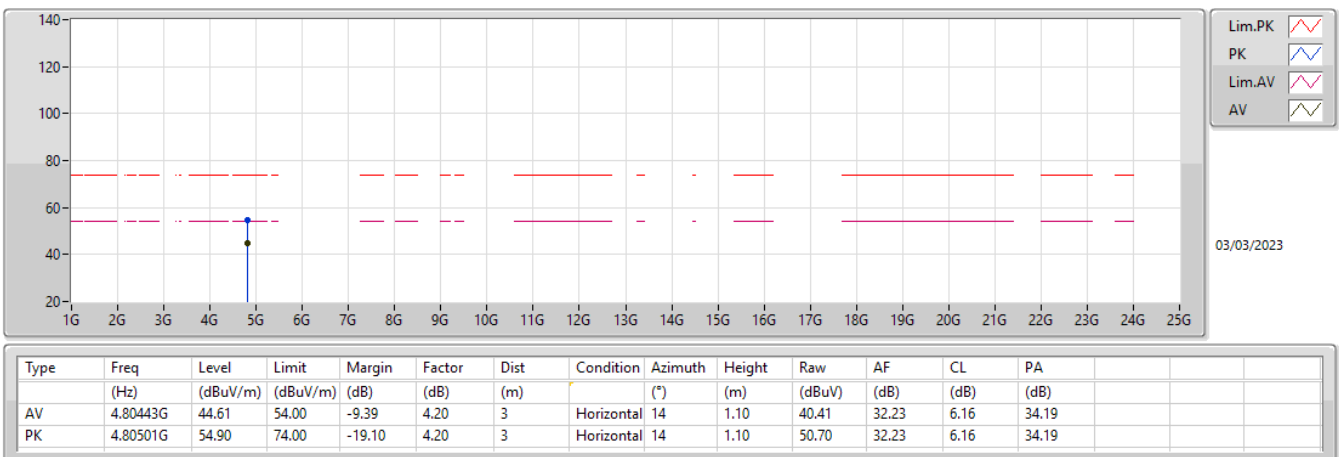
2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX



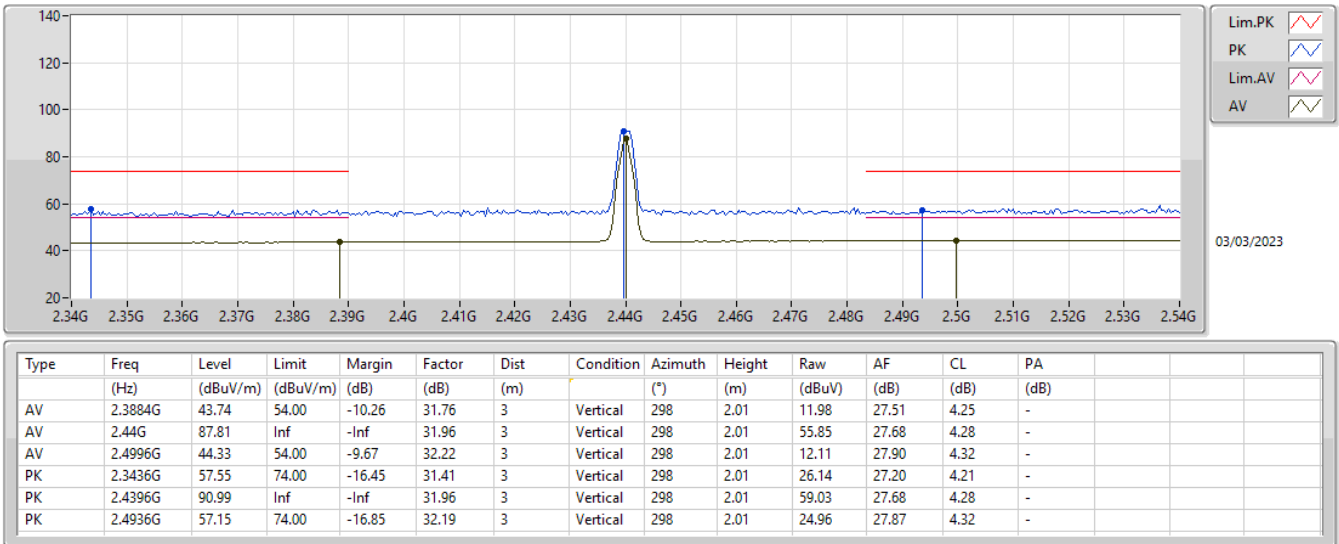
2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX



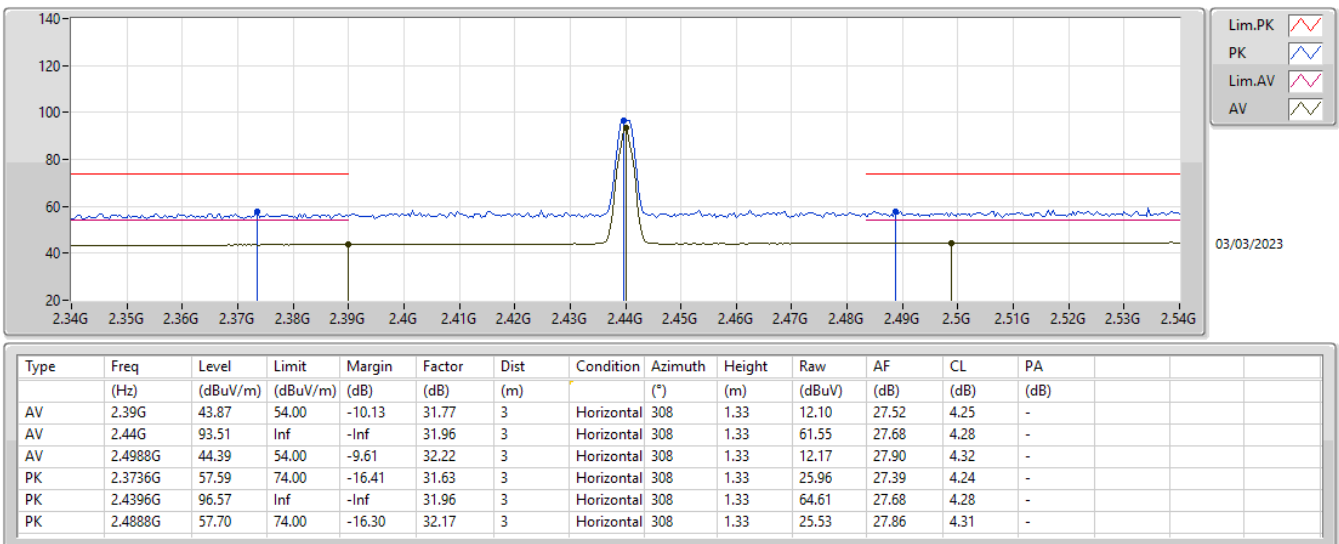
2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX



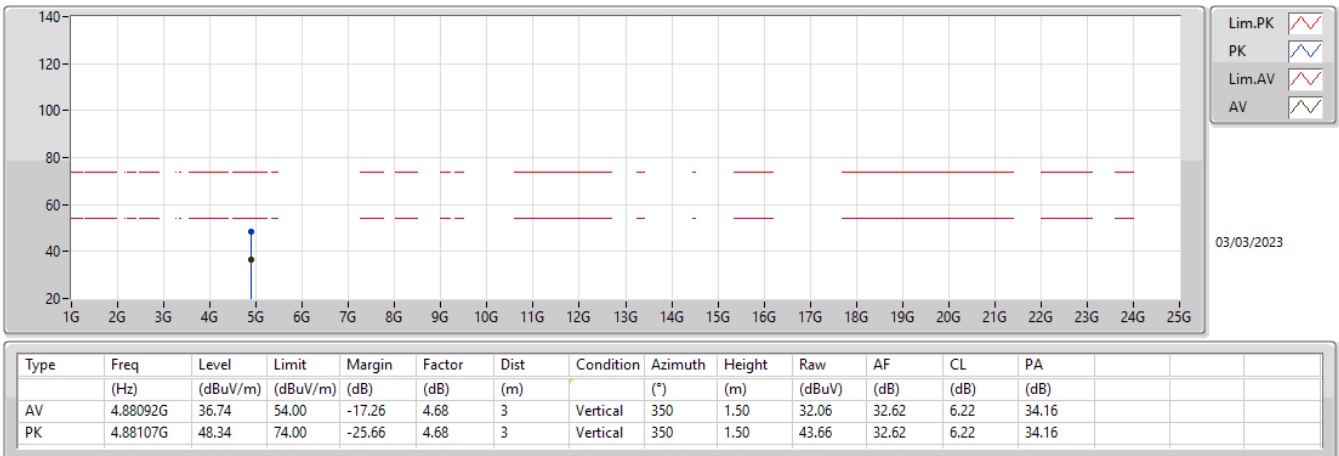
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2440MHz_TX



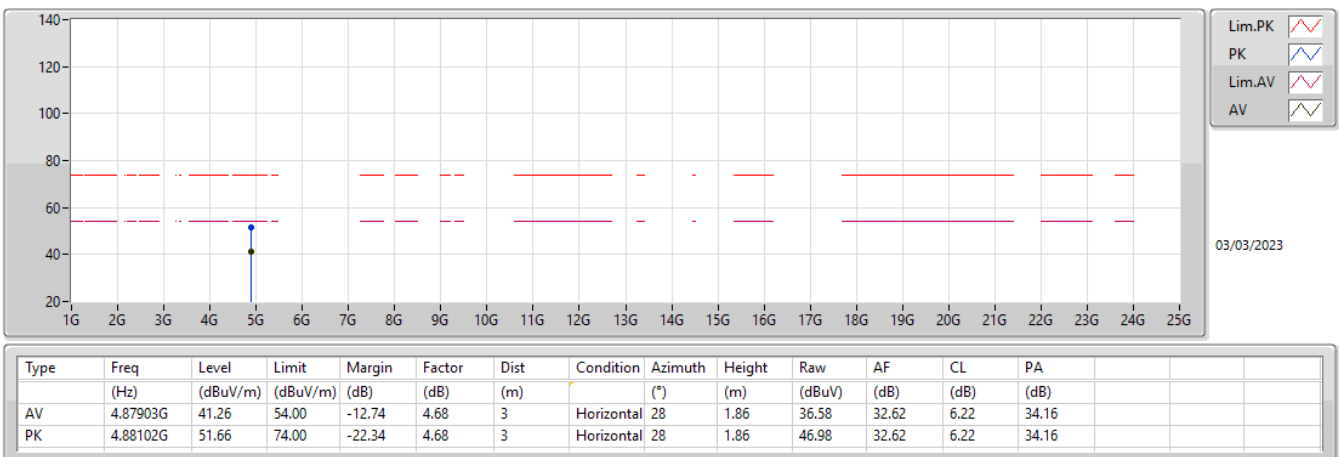
2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX



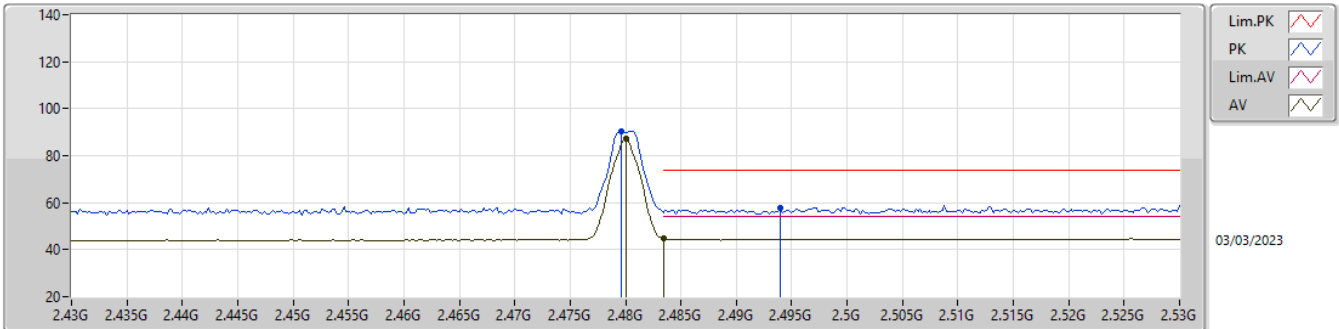
2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX



2.4-2.4835GHz_BT-LE(2Mbps)

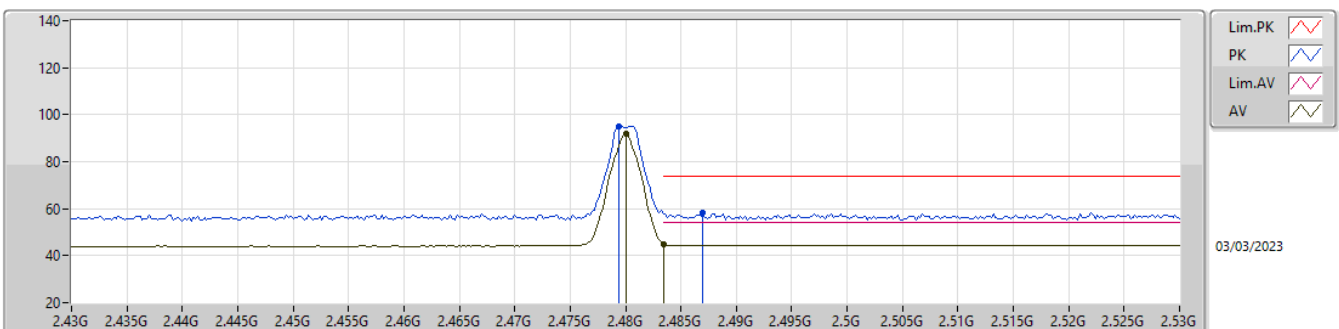
2480MHz_TX



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	87.31	Inf	-Inf	32.13	3	Vertical	284	2.61	55.18	27.82	4.31	-
AV	2.4835G	44.57	54.00	-9.43	32.14	3	Vertical	284	2.61	12.43	27.83	4.31	-
PK	2.4796G	90.49	Inf	-Inf	32.13	3	Vertical	284	2.61	58.36	27.82	4.31	-
PK	2.494G	57.72	74.00	-16.28	32.20	3	Vertical	284	2.61	25.52	27.88	4.32	-

2.4-2.4835GHz_BT-LE(2Mbps)

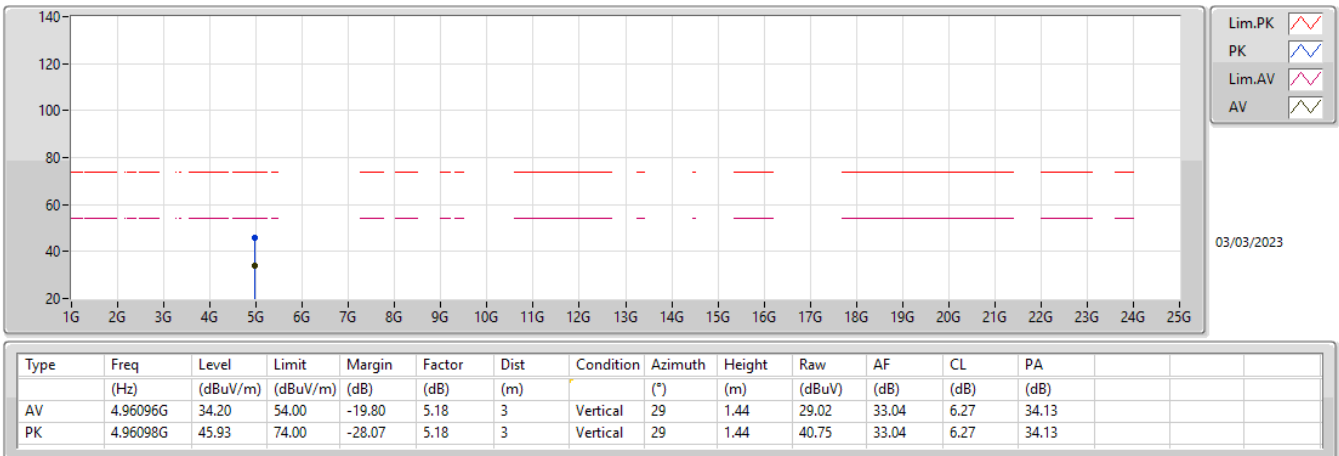
2480MHz_TX



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	91.93	Inf	-Inf	32.13	3	Horizontal	4	2.22	59.80	27.82	4.31	-
AV	2.4835G	45.00	54.00	-9.00	32.14	3	Horizontal	4	2.22	12.86	27.83	4.31	-
PK	2.4794G	95.16	Inf	-Inf	32.13	3	Horizontal	4	2.22	63.03	27.82	4.31	-
PK	2.487G	58.11	74.00	-15.89	32.16	3	Horizontal	4	2.22	25.95	27.85	4.31	-

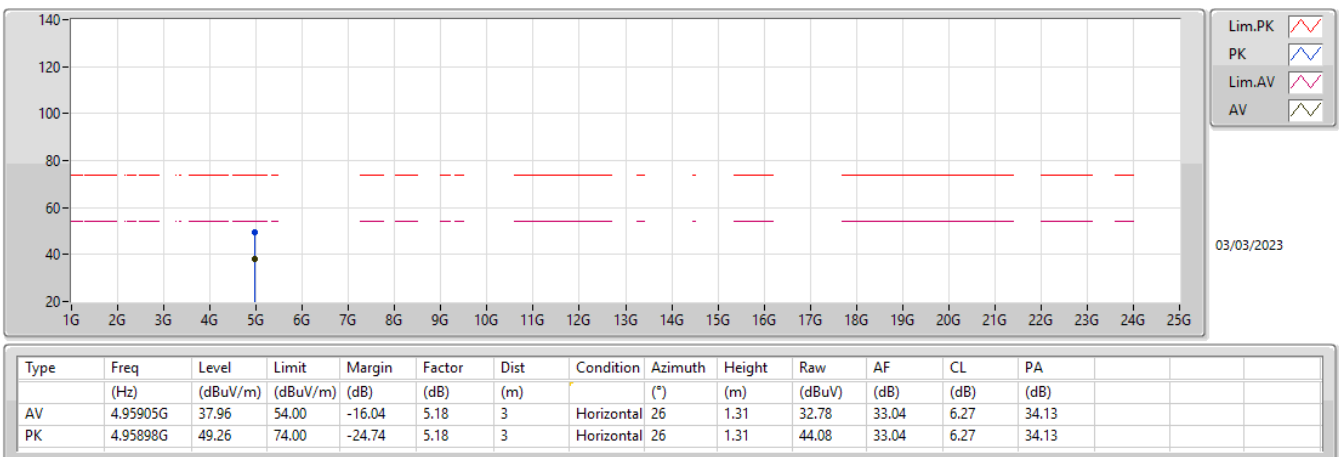
2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



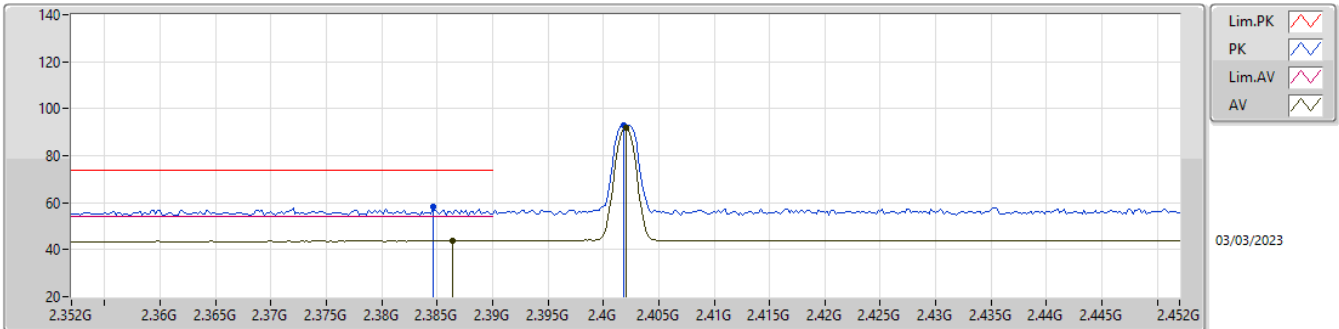
2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



2.4-2.4835GHz_BT-LE(125kbps)

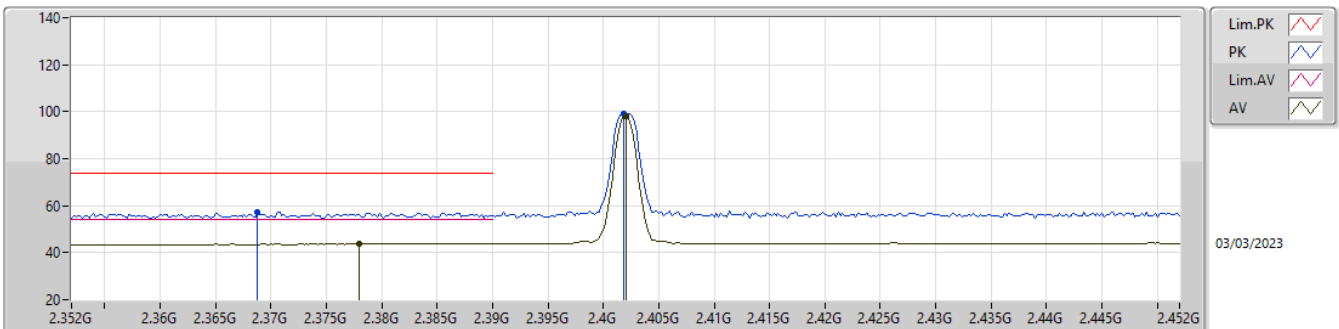
2402MHz_TX



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	2.3864G	43.79	54.00	-10.21	31.74	3	Vertical	339	1.42	12.05	27.49	4.25	-
AV	2.402G	91.73	Inf	-Inf	31.86	3	Vertical	339	1.42	59.87	27.60	4.26	-
PK	2.3846G	58.02	74.00	-15.98	31.73	3	Vertical	339	1.42	26.29	27.48	4.25	-
PK	2.4018G	93.03	Inf	-Inf	31.86	3	Vertical	339	1.42	61.17	27.60	4.26	-

2.4-2.4835GHz_BT-LE(125kbps)

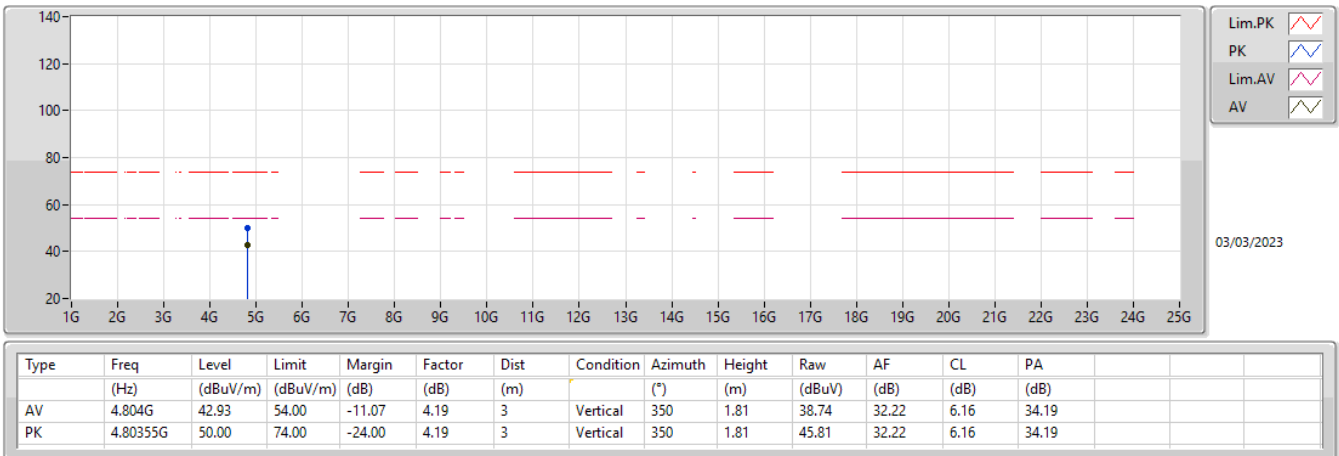
2402MHz_TX



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	2.378G	43.95	54.00	-10.05	31.66	3	Horizontal	308	1.49	12.29	27.42	4.24	-
AV	2.402G	98.12	Inf	-Inf	31.86	3	Horizontal	308	1.49	66.26	27.60	4.26	-
PK	2.3688G	57.23	74.00	-16.77	31.58	3	Horizontal	308	1.49	25.65	27.35	4.23	-
PK	2.4018G	99.36	Inf	-Inf	31.86	3	Horizontal	308	1.49	67.50	27.60	4.26	-

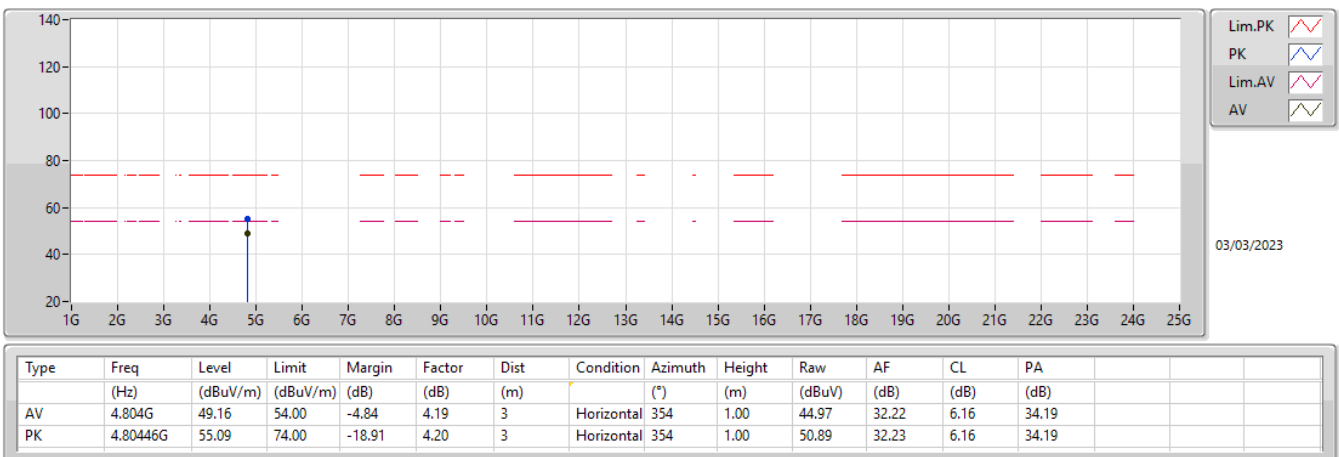
2.4-2.4835GHz_BT-LE(125kbps)

2402MHz_TX



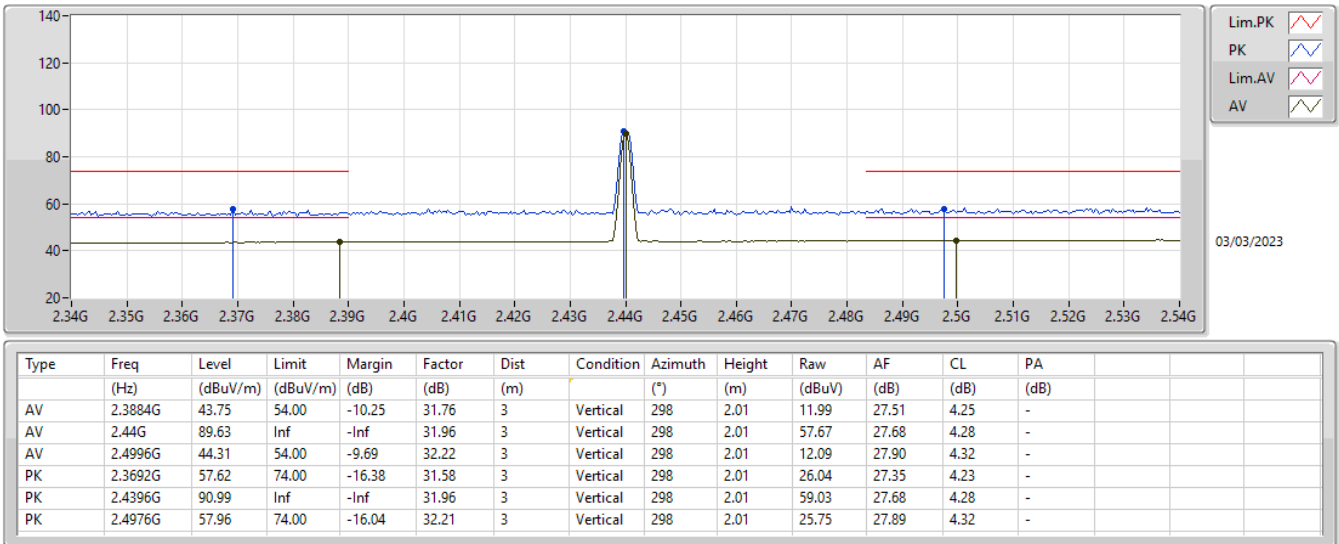
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2402MHz_TX



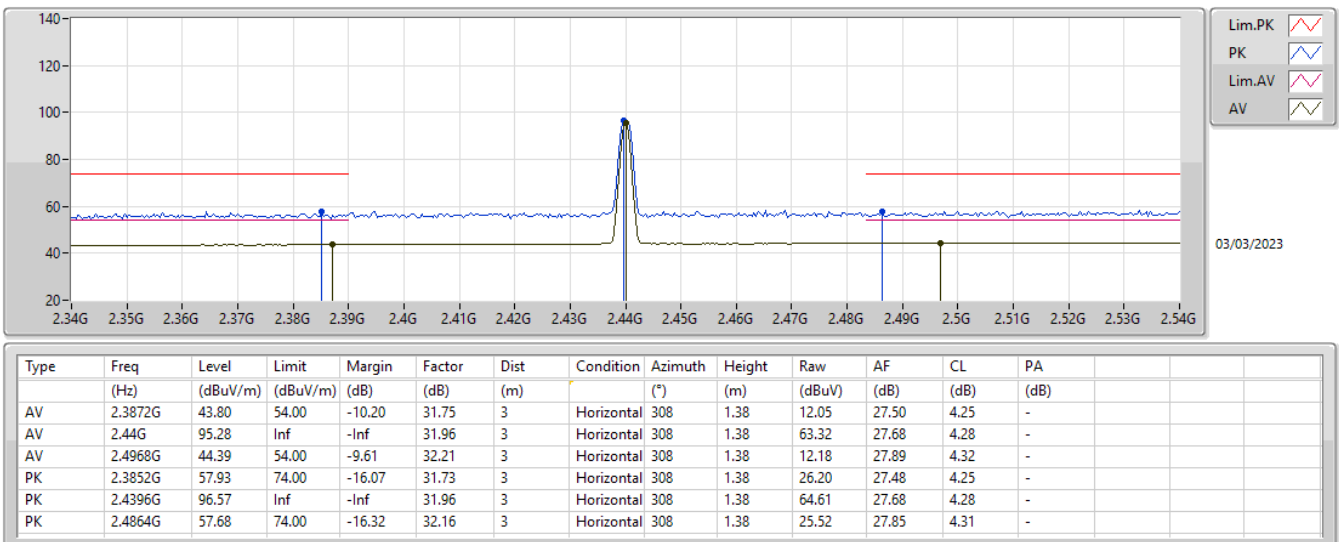
2.4-2.4835GHz_BT-LE(125kbps)

2440MHz_TX



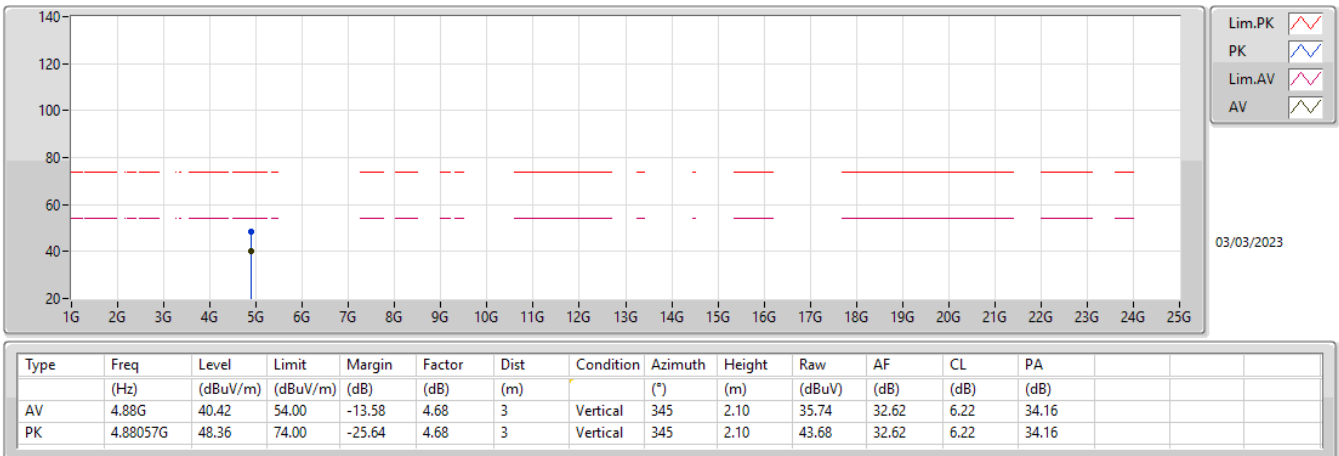
2.4-2.4835GHz_BT-LE(125kbps)

2440MHz_TX



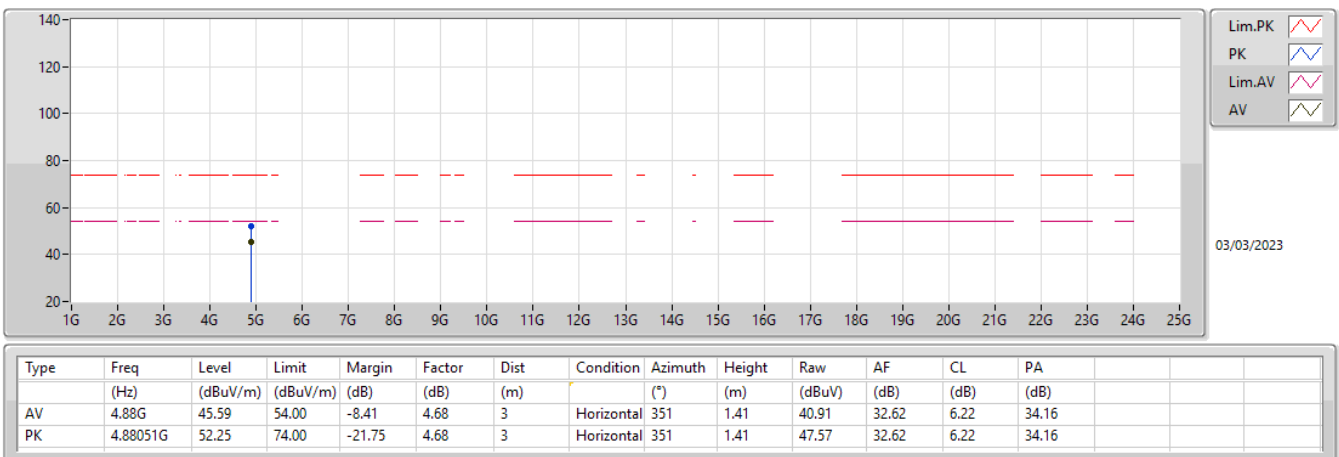
2.4-2.4835GHz_BT-LE(125kbps)

2440MHz_TX



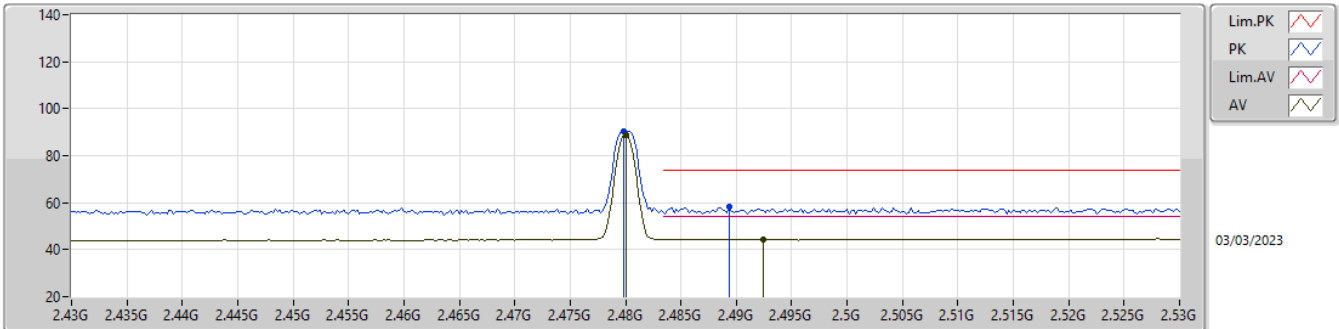
2.4-2.4835GHz_BT-LE(125kbps)

2440MHz_TX



2.4-2.4835GHz_BT-LE(125kbps)

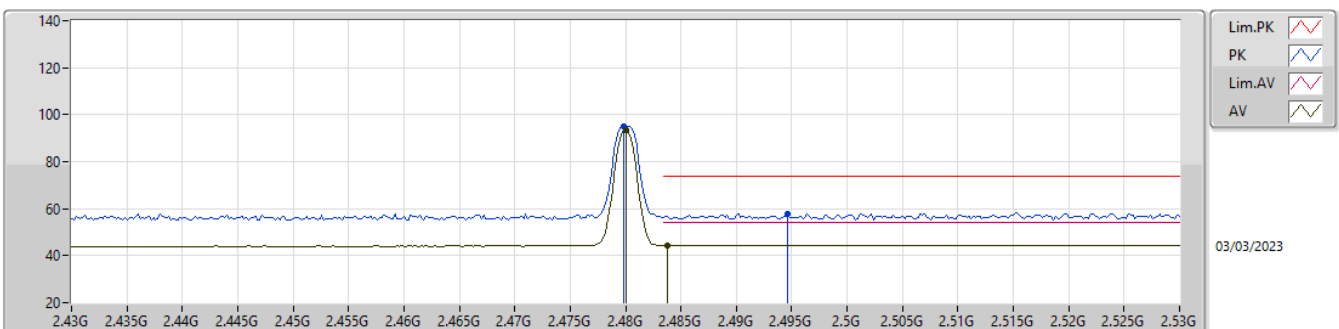
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	88.87	Inf	-Inf	32.13	3	Vertical	285	2.60	56.74	27.82	4.31	-
AV	2.4924G	44.31	54.00	-9.69	32.19	3	Vertical	285	2.60	12.12	27.87	4.32	-
PK	2.4798G	90.24	Inf	-Inf	32.13	3	Vertical	285	2.60	58.11	27.82	4.31	-
PK	2.4894G	58.37	74.00	-15.63	32.17	3	Vertical	285	2.60	26.20	27.86	4.31	-

2.4-2.4835GHz_BT-LE(125kbps)

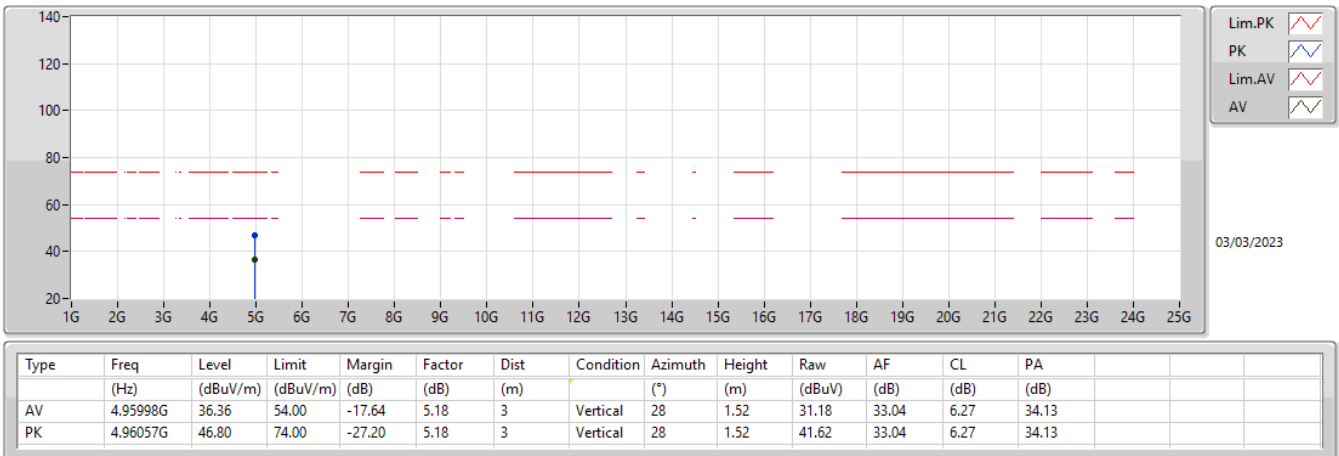
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	93.67	Inf	-Inf	32.13	3	Horizontal	5	2.24	61.54	27.82	4.31	-
AV	2.4838G	44.41	54.00	-9.59	32.15	3	Horizontal	5	2.24	12.26	27.84	4.31	-
PK	2.4798G	94.99	Inf	-Inf	32.13	3	Horizontal	5	2.24	62.86	27.82	4.31	-
PK	2.4946G	57.63	74.00	-16.37	32.20	3	Horizontal	5	2.24	25.43	27.88	4.32	-

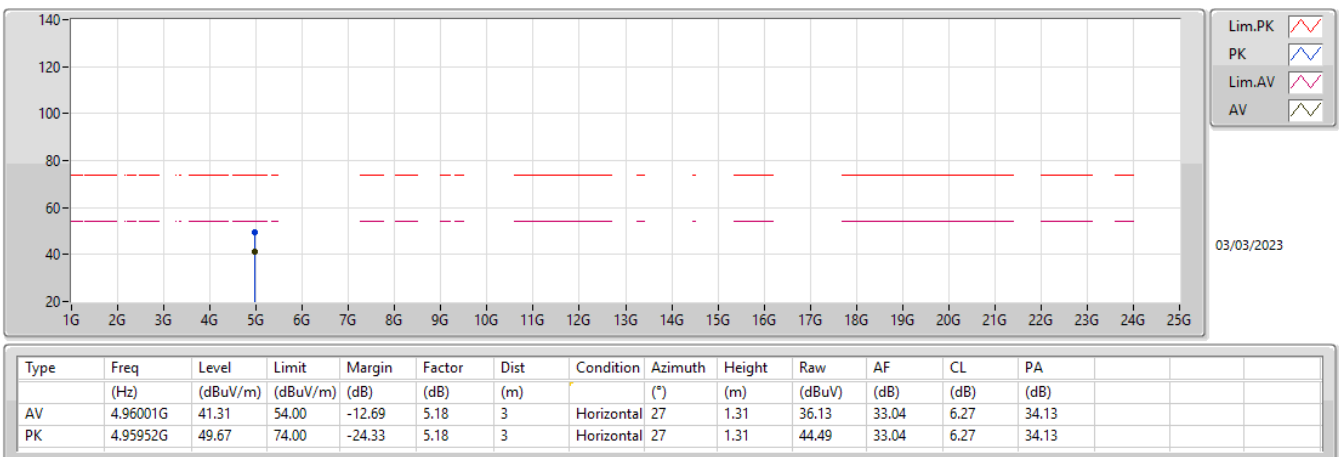
2.4-2.4835GHz_BT-LE(125kbps)

2480MHz_TX



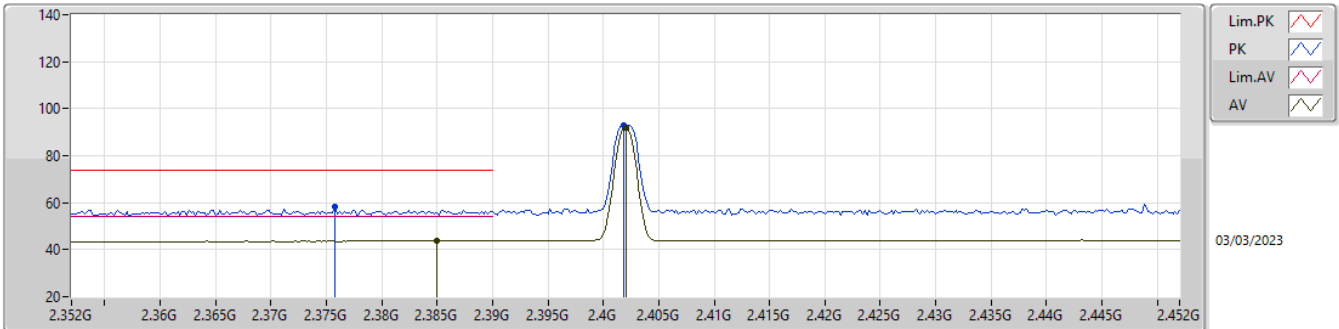
2.4-2.4835GHz_BT-LE(125kbps)

2480MHz_TX



2.4-2.4835GHz_BT-LE(500kbps)

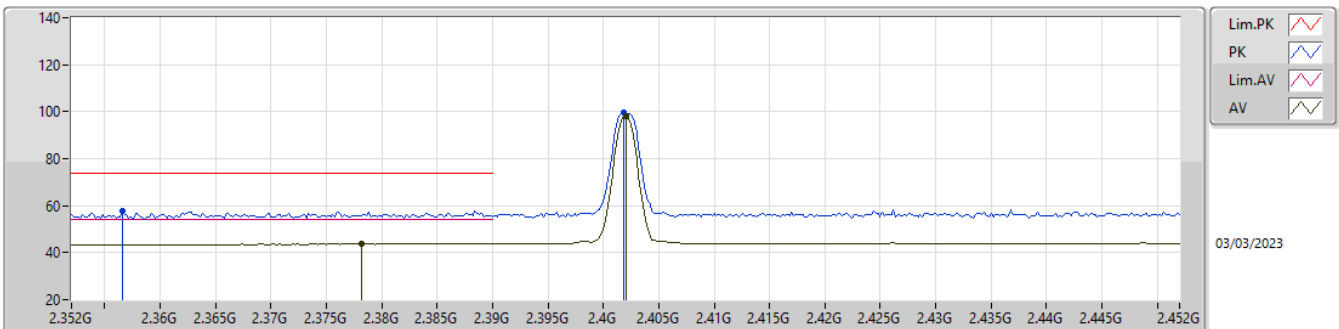
2402MHz_TX



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	2.385G	43.82	54.00	-10.18	31.73	3	Vertical	339	1.42	12.09	27.48	4.25	-
AV	2.402G	91.91	Inf	-Inf	31.86	3	Vertical	339	1.42	60.05	27.60	4.26	-
PK	2.3758G	58.31	74.00	-15.69	31.65	3	Vertical	339	1.42	26.66	27.41	4.24	-
PK	2.4018G	93.04	Inf	-Inf	31.86	3	Vertical	339	1.42	61.18	27.60	4.26	-

2.4-2.4835GHz_BT-LE(500kbps)

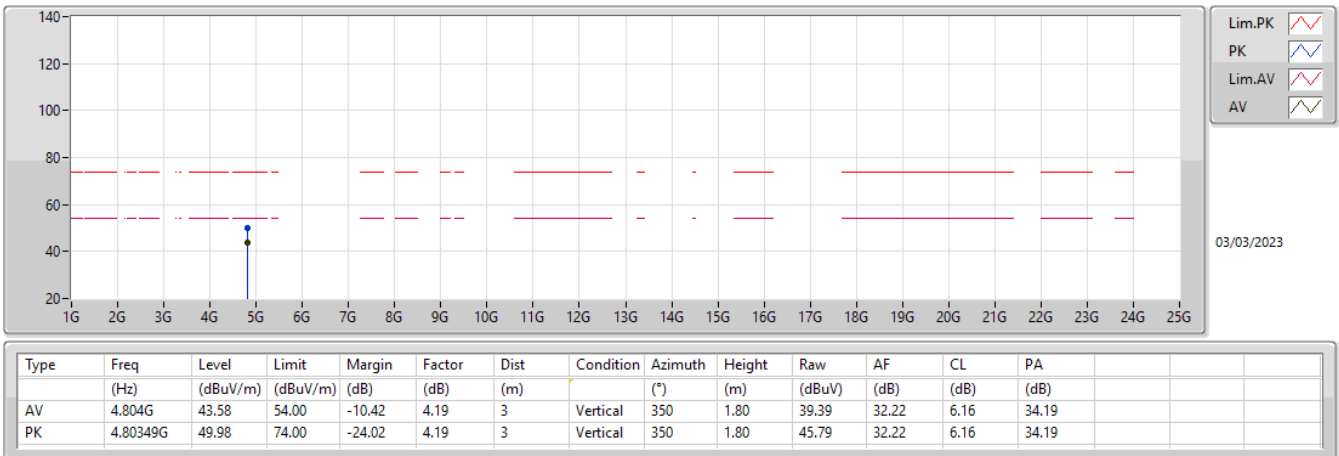
2402MHz_TX



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	2.3782G	43.91	54.00	-10.09	31.67	3	Horizontal	308	1.49	12.24	27.43	4.24	-
AV	2.402G	98.34	Inf	-Inf	31.86	3	Horizontal	308	1.49	66.48	27.60	4.26	-
PK	2.3566G	57.57	74.00	-16.43	31.47	3	Horizontal	308	1.49	26.10	27.25	4.22	-
PK	2.4018G	99.43	Inf	-Inf	31.86	3	Horizontal	308	1.49	67.57	27.60	4.26	-

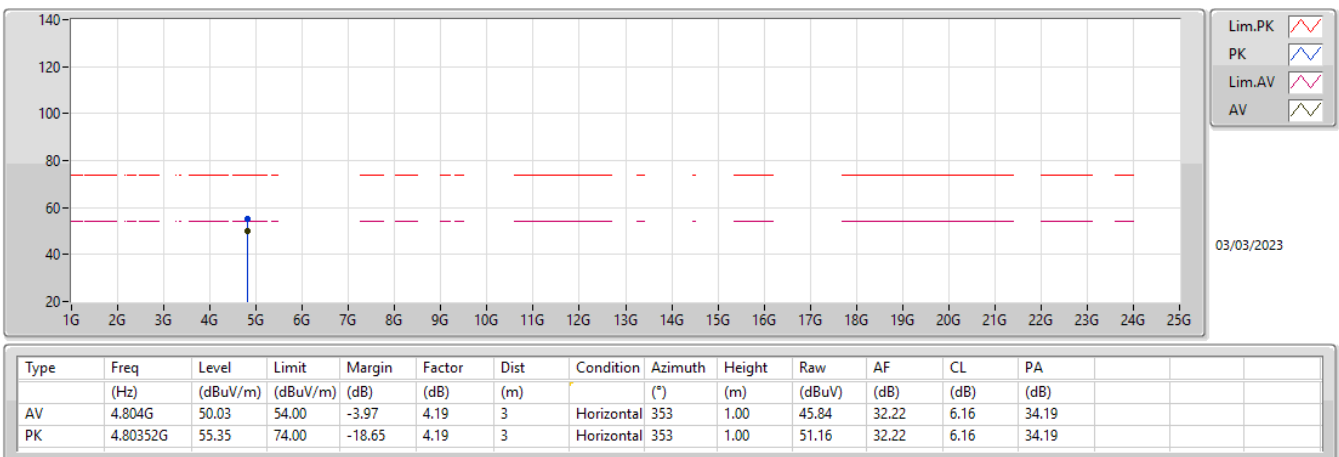
2.4-2.4835GHz_BT-LE(500kbps)

2402MHz_TX



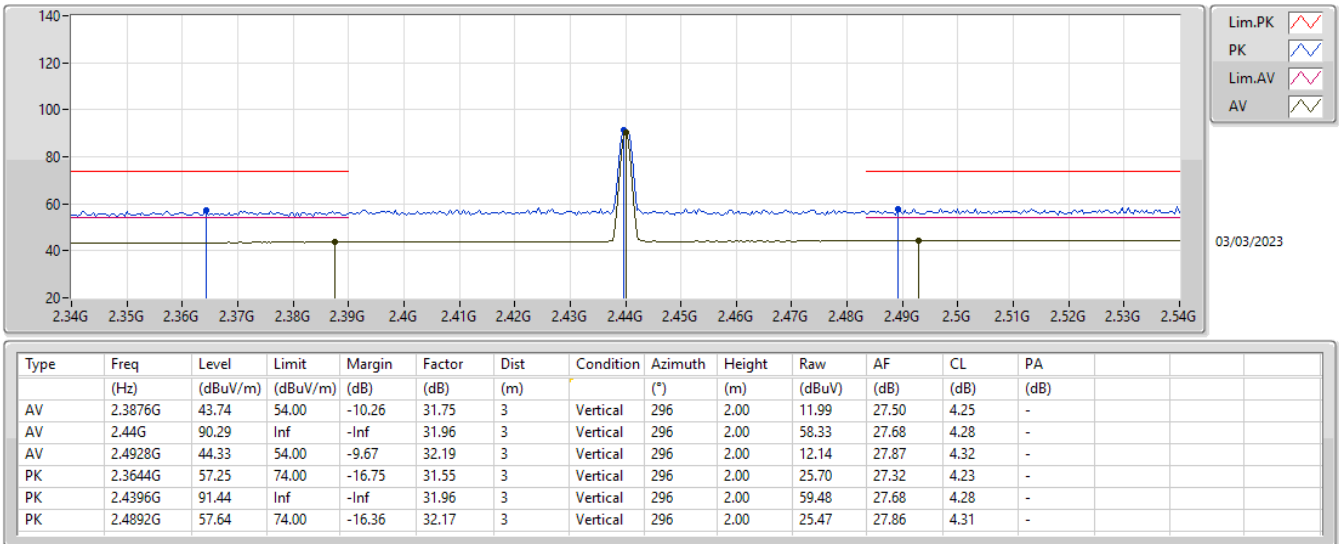
2.4-2.4835GHz_BT-LE(500kbps)

2402MHz_TX



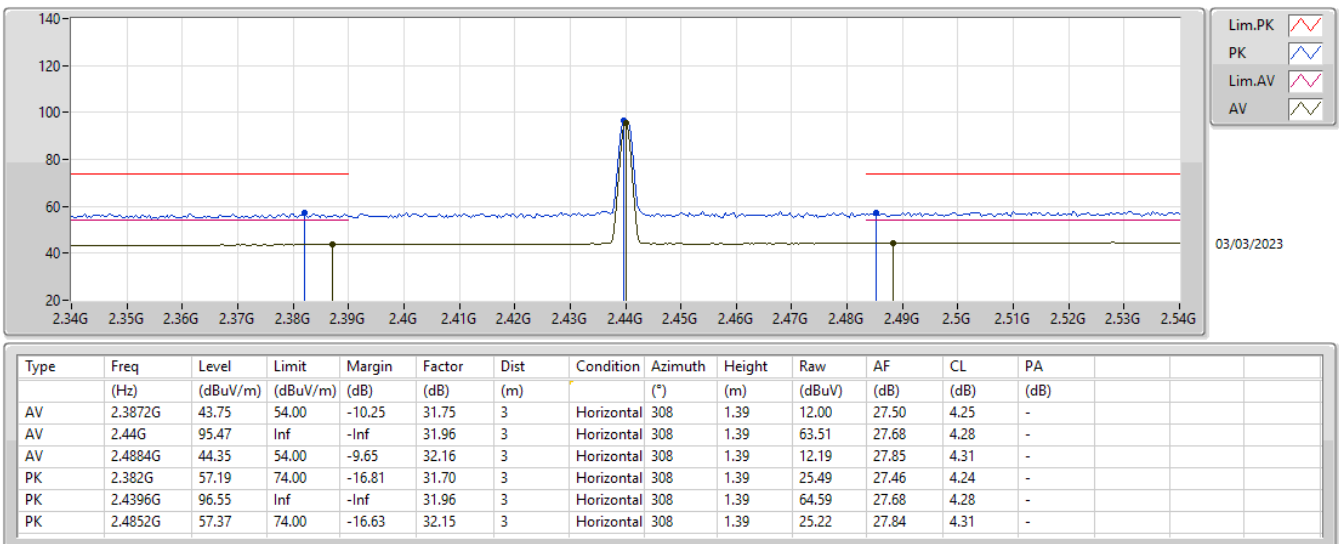
2.4-2.4835GHz_BT-LE(500kbps)

2440MHz_TX



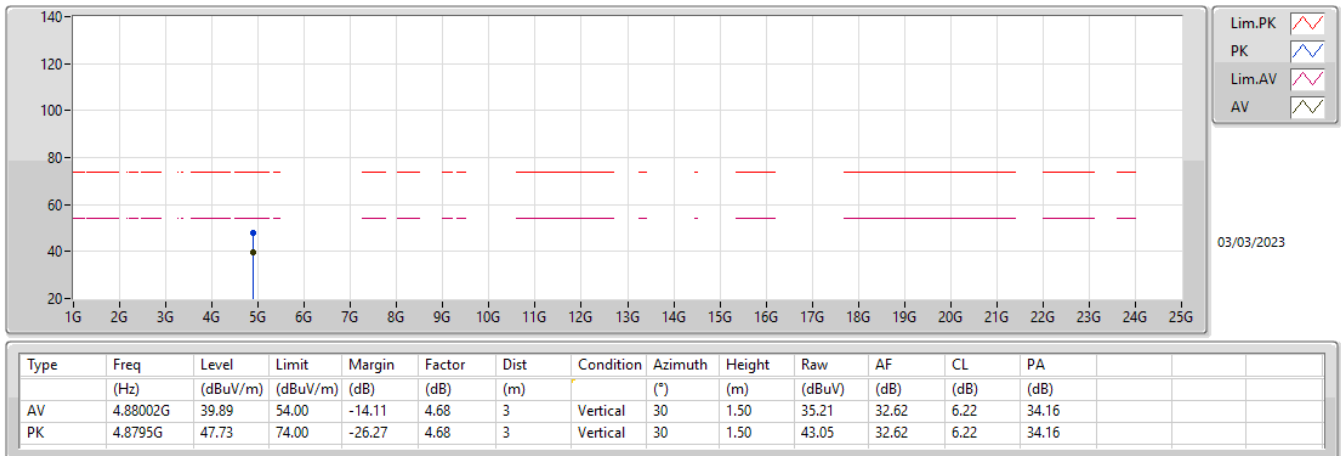
2.4-2.4835GHz_BT-LE(500kbps)

2440MHz_TX



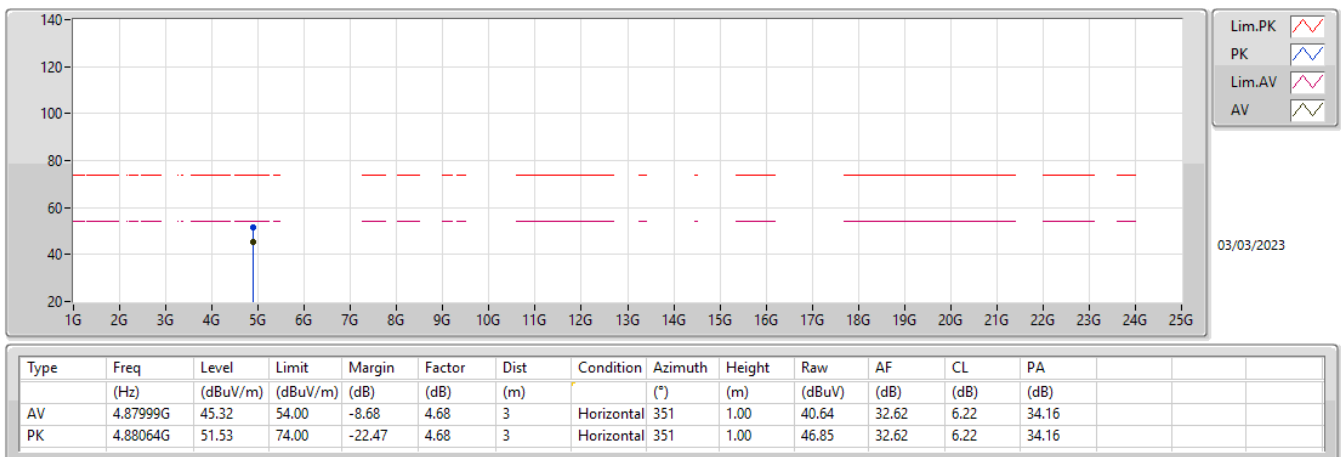
2.4-2.4835GHz_BT-LE(500kbps)

2440MHz_TX



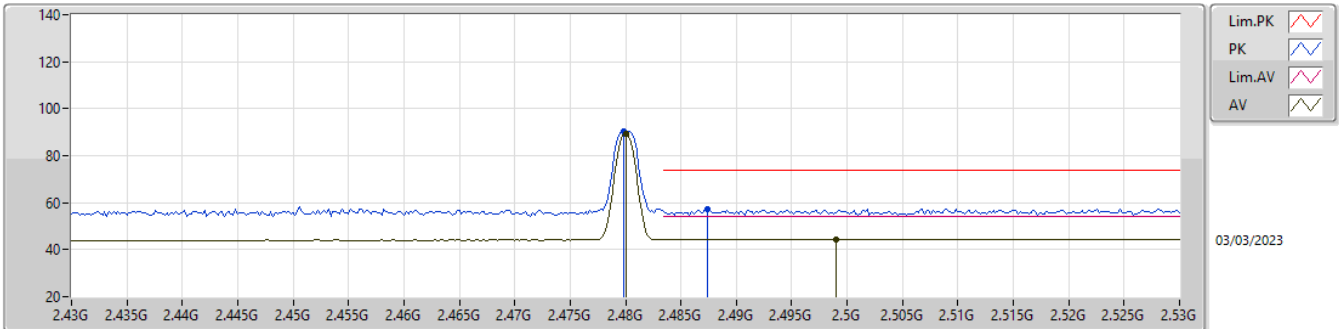
2.4-2.4835GHz_BT-LE(500kbps)

2440MHz_TX



2.4-2.4835GHz_BT-LE(500kbps)

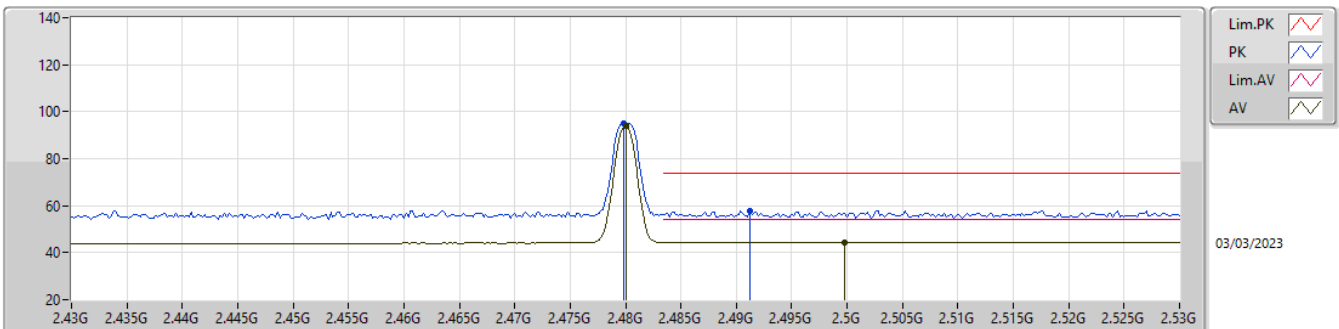
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	89.39	Inf	-Inf	32.13	3	Vertical	284	2.61	57.26	27.82	4.31	-
AV	2.499G	44.36	54.00	-9.64	32.22	3	Vertical	284	2.61	12.14	27.90	4.32	-
PK	2.4798G	90.56	Inf	-Inf	32.13	3	Vertical	284	2.61	58.43	27.82	4.31	-
PK	2.4874G	57.23	74.00	-16.77	32.16	3	Vertical	284	2.61	25.07	27.85	4.31	-

2.4-2.4835GHz_BT-LE(500kbps)

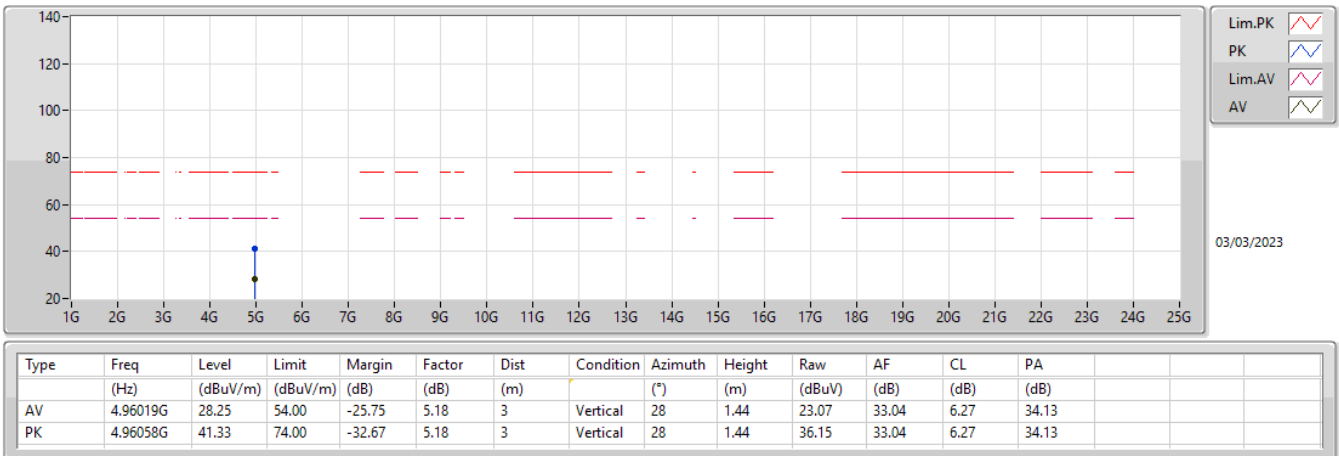
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	93.97	Inf	-Inf	32.13	3	Horizontal	4	2.22	61.84	27.82	4.31	-
AV	2.4998G	44.41	54.00	-9.59	32.22	3	Horizontal	4	2.22	12.19	27.90	4.32	-
PK	2.4798G	95.12	Inf	-Inf	32.13	3	Horizontal	4	2.22	62.99	27.82	4.31	-
PK	2.4912G	57.79	74.00	-16.21	32.17	3	Horizontal	4	2.22	25.62	27.86	4.31	-

2.4-2.4835GHz_BT-LE(500kbps)

2480MHz_TX



2.4-2.4835GHz_BT-LE(500kbps)

2480MHz_TX

