

FCC Radio Test Report

FCC ID : 2AHBN-AP66
Equipment : Wi-Fi 7 Wireless Access Point
Brand Name : Juniper
Model Name : AP66, AP66D
Applicant : Juniper Networks, Inc.
1133 Innovation Way Sunnyvale, California 94089
USA
Manufacturer : Juniper Networks, Inc.
1133 Innovation Way Sunnyvale, California 94089
USA
Standard : 47 CFR FCC Part 15.247

The product was received on Aug. 19, 2025, and testing was started from Aug. 19, 2025 and completed on Sep. 19, 2025. 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 C63.10-2020 + Cor.1-2023 + C63.10a-2024 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

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History of this test report

[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:

None

Reviewed by: Ryan Hsiao

Report Producer: Debby Hung

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std.	Ch. Frequency (MHz)	Channel Number
2400-2483.5	802.15.4	2405-2480	11-26 [16]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.15.4	5	1TX

Note:.

- ♦ 802.15.4 uses a O-QPSK (250kbps) modulation for DSSS.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information_AP66

Ant.	Brand	Model Name	Antenna Type	Connector	Support	Radio
1	Juniper	AP66	PIFA	I-Pex	2.4G	Radio 2
2	Juniper	AP66	PIFA	I-Pex	2.4G	Radio 2
3	Juniper	AP66	PIFA	I-Pex	2.4G+5G+6G	Radio 3
4	Juniper	AP66	PIFA	I-Pex	5G	Radio 1
5	Juniper	AP66	Dipole	I-Pex	5G	Radio 1
6	Juniper	AP66	Dipole	I-Pex	6G	Radio 0
7	Juniper	AP66	PIFA	I-Pex	6G	Radio 0
8	Juniper	AP66	PIFA	I-Pex	802.15.4	Radio 5
9	Juniper	AP66	PIFA	I-Pex	BT	Radio 4
10	Juniper	AP66	PIFA	I-Pex	GPS	Radio 6



Ant.	Port	Gain (dBi)											
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	802.15.4	BT	GPS
1	1	5.61	-	-	-	-	-	-	-	-	-	-	-
2	2	5.77	-	-	-	-	-	-	-	-	-	-	-
3	1	4.8	5.4	5.3	5.1	5	5.1	6.2	5.9	5.7	-	-	-
4	1	-	5.02	4.81	4.78	4.86	-	-	-	-	-	-	-
5	2	-	4.58	4.5	5.92	5.25	-	-	-	-	-	-	-
6	1	-	-	-	-	-	4.43	5.23	4.57	5.86	-	-	-
7	2	-	-	-	-	-	6.38	5.32	5.01	4.66	-	-	-
8	1	-	-	-	-	-	-	-	-	-	5.1	-	-
9	1	-	-	-	-	-	-	-	-	-	-	6.3	-
10	1	-	-	-	-	-	-	-	-	-	-	-	3.9

Ant.		Composite Gain (dBi)								
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8
1~2	DG [1SS]	7.78	-	-	-	-	-	-	-	-
	DG [2SS]	5.77	-	-	-	-	-	-	-	-
4~5	DG [1SS]	-	5.02	4.81	5.92	5.25	-	-	-	-
	DG [2SS]	-	5.02	4.81	5.92	5.25	-	-	-	-
6~7	DG [1SS]	-	-	-	-	-	6.38	5.32	5.01	5.86
	DG [2SS]	-	-	-	-	-	6.38	5.32	5.01	5.86

Note 1: DG=Directional Gain.

Note 2: The EUT has ten antennas.

Note 3: The composite gain is derived as KDB 662911 D03 v02 which was used as directional gain. For more detail information, please refer to the Antenna Pattern Report AP583005.

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax/be mode (2TX/2RX) < **Radio 2** >

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

For b20/g20 mode (1TX/1RX) < **Radio 3_Scan** >

Ant. 3 (port 1) could transmit/receive.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax/be mode(2TX/2RX) < **Radio 1** >

Ant. 4 (port 1) and Ant. 5 (port 2) could transmit/receive simultaneously.

For a20 mode (1TX/1RX) < **Radio 3_Scan** >

Ant. 3 (port 1) could transmit/receive.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX) < **Radio 4>**

Ant. 9 (port 1) could transmit/receive.

For 802.15.4 function:

For IEEE 802.15.4 mode (1TX/1RX) < **Radio 5** >

Ant. 8 (port 1) could transmit/receive.

1.1.3 Antenna Information_AP66D

Ant.	Brand	Model Name	Antenna Type	Connector	Support	Radio
1	Juniper	AP66D	PIFA	I-Pex	2.4G	Radio 2
2	Juniper	AP66D	PIFA	I-Pex	2.4G	Radio 2
3	Juniper	AP66D	PIFA	I-Pex	2.4G+5G+6G	Radio 3
4	Juniper	AP66D	Dipole	I-Pex	5G	Radio 1
5	Juniper	AP66D	Dipole	I-Pex	5G	Radio 1
6	Juniper	AP66D	Dipole	I-Pex	6G	Radio 0
7	Juniper	AP66D	Dipole	I-Pex	6G	Radio 0
8	Juniper	AP66D	PIFA	I-Pex	802.15.4	Radio 5
9	Juniper	AP66D	PIFA	I-Pex	BT	Radio 4
10	Juniper	AP66D	PIFA	I-Pex	GPS	Radio 6

Ant.	Beam width	Port	Gain (dBi)											
			2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	802.15.4	BT	GPS
1	-	1	6	-	-	-	-	-	-	-	-	-	-	-
2	-	2	5.6	-	-	-	-	-	-	-	-	-	-	-
3	-	1	3.4	3.2	4	4.9	5.4	5.2	4.4	5.1	4.5	-	-	-
4	90x90	1	-	4	2.8	3.3	4.2	-	-	-	-	-	-	-
5		2	-	3.2	3.6	4.7	3.6	-	-	-	-	-	-	-
4	90x30	1	-	6.2	6.6	6.7	6.2	-	-	-	-	-	-	-
5		2	-	6.6	6.5	6.5	6.4	-	-	-	-	-	-	-
4	30x30	1	-	9.2	9.3	9.5	10	-	-	-	-	-	-	-
5		2	-	9.8	9.4	10	9.7	-	-	-	-	-	-	-
6	90x90	1	-	-	-	-	-	5.6	4.4	5.1	4.5	-	-	-
7		2	-	-	-	-	-	7	7.4	7.5	6	-	-	-
6	90x30	1	-	-	-	-	-	7.3	7.6	7.3	7.2	-	-	-
7		2	-	-	-	-	-	6.9	7.4	7.6	6.6	-	-	-
6	30x30	1	-	-	-	-	-	10.2	10.1	10.1	9.1	-	-	-
7		2	-	-	-	-	-	9.6	10	10.3	9.3	-	-	-
8	-	1	-	-	-	-	-	-	-	-	-	3.9	-	-
9	-	1	-	-	-	-	-	-	-	-	-	-	3.7	-
10	-	1	-	-	-	-	-	-	-	-	-	-	-	2.5

Ant.	Beam width		Composite Gain (dBi)								
			2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8
1~2	-	DG [1SS]	8.5	-	-	-	-	-	-	-	-
		DG [2SS]	8.5	-	-	-	-	-	-	-	-
4~5	90x90	DG [1SS]	-	6.3	5.8	6.8	6.5	-	-	-	-
		DG [2SS]	-	6.3	5.8	6.8	6.5	-	-	-	-
4~5	90x30	DG [1SS]	-	9.4	9.5	9.6	9.3	-	-	-	-
		DG [2SS]	-	9.4	9.5	9.6	9.3	-	-	-	-
4~5	30x30	DG [1SS]	-	12.5	12.3	12.7	12.8	-	-	-	-
		DG [2SS]	-	12.5	12.3	12.7	12.8	-	-	-	-
6~7	90x90	DG [1SS]	-	-	-	-	-	8.4	8.1	8.4	7.6
		DG [2SS]	-	-	-	-	-	8.4	8.1	8.4	7.6
6~7	90x30	DG [1SS]	-	-	-	-	-	10.1	10.2	10.2	9.7
		DG [2SS]	-	-	-	-	-	10.1	10.2	10.2	9.7
6~7	30x30	DG [1SS]	-	-	-	-	-	12.9	13	13.1	12.2
		DG [2SS]	-	-	-	-	-	12.9	13	13.1	12.2

Note 1: DG=Directional Gain.

Note 2: Beamwidth 30x30 was Main test.

Note 3: The EUT has ten antennas.

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax/be mode (2TX/2RX) < **Radio 2** >

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

For b20/g20 mode (1TX/1RX) < **Radio 3_Scan** >

Ant. 3 (port 1) could transmit/receive.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax/be mode(2TX/2RX) < **Radio 1** >

Ant. 4 (port 1) and Ant. 5 (port 2) could transmit/receive simultaneously.

For a20 mode (1TX/1RX) < **Radio 3_Scan** >

Ant. 3 (port 1) could transmit/receive.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX) < **Radio 4** >

Ant. 9 (port 1) could transmit/receive.

For 802.15.4 function:

For IEEE 802.15.4 mode (1TX/1RX) < **Radio 5** >

Ant. 8 (port 1) could transmit/receive.



1.1.4 EUT Information

Operational Condition	
EUT Power Type	From PoE
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:

1.1.5 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
802.15.4	0.908	0.42	4.258m	300

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

1.1.6 Table for Multiple Listing

Model Name	AP66	AP66D
Wi-Fi Internal Omni Antenna	X	-
Wi-Fi Internal Dynamic Directional Antenna	-	X

Note: 2 SKUs have the same PCB

Note: The information presented above originates from the manufacturer.

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 C63.10-2020 + Cor.1-2023 + C63.10a-2024

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	Lego Lin	23.7~24.9°C / 51~55%	09/Sep/2025
RF Conducted AP66	TH01-HY	Sonic Li	23.7~24.3°C / 54~57%	01/Sep/2025
RF Conducted AP66D	TH01-HY	Sonic Li	23.7~24.3°C / 54~57%	27/Aug/2025
☒ Wenhua 3rd. (TAF: 3785)	ADD: No. 58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist. Taoyuan City 333, Taiwan (R.O.C.)			
	TEL: 886-3-327-0868			
Test site Designation No. TW0036 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated AP66	03CH24-HY	Jack Tang	21.3~21.8°C / 51~55%	19/Aug/2025~20/Aug/2025
Radiated AP66D	03CH26-HY	Andy Wang	22.2~23.4°C / 55~60%	29/Aug/2025~02/Sep/2025
Radiated Co-location AP66	03CH26-HY	Andy Wang	22.7~24.3°C / 50~56%	19/Sep/2025
Radiated Co-location AP66D	03CH26-HY	Andy Wang	22.7~24.3°C / 50~56%	18/Sep/2025

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	3.44 dB	Confidence levels of 95%
Conducted Output Power	1.48 dB	Confidence levels of 95%
Bandwidth	0.05 MHz	Confidence levels of 95%
Conducted Emission	1.48 dB	Confidence levels of 95%
Power Spectral Density	1.22 dB	Confidence levels of 95%
Radiated Emission (9 kHz ~ 30 MHz)	2.9 dB	Confidence levels of 95%
Radiated Emission (30 MHz ~ 1 GHz)	5.64 dB	Confidence levels of 95%
Radiated Emission (1 GHz ~ 18 GHz)	5.02 dB	Confidence levels of 95%
Radiated Emission (18 GHz ~ 40 GHz)	5.28 dB	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	PuTTY 0.72
------------------------------	------------

Mode	Power Setting
802.15.4	-
2405MHz	0C0C
2440MHz	0C0C
2480MHz	0C0C

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	PoE mode

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	PoE mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V		

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	R1 (5G)+R2 (2.4G)+R3 (2.4G)+BT
2	R1 (5G)+R2 (2.4G)+R3 (5G)+BT
3	R1 (5G)+R2 (2.4G)+R3 (2.4G)+802.15.4
4	R1 (5G)+R2 (2.4G)+R3 (5G)+802.15.4
Refer to Sporton Test Report No.: FA583005 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.3 Accessories

Accessories
Bracket*1

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

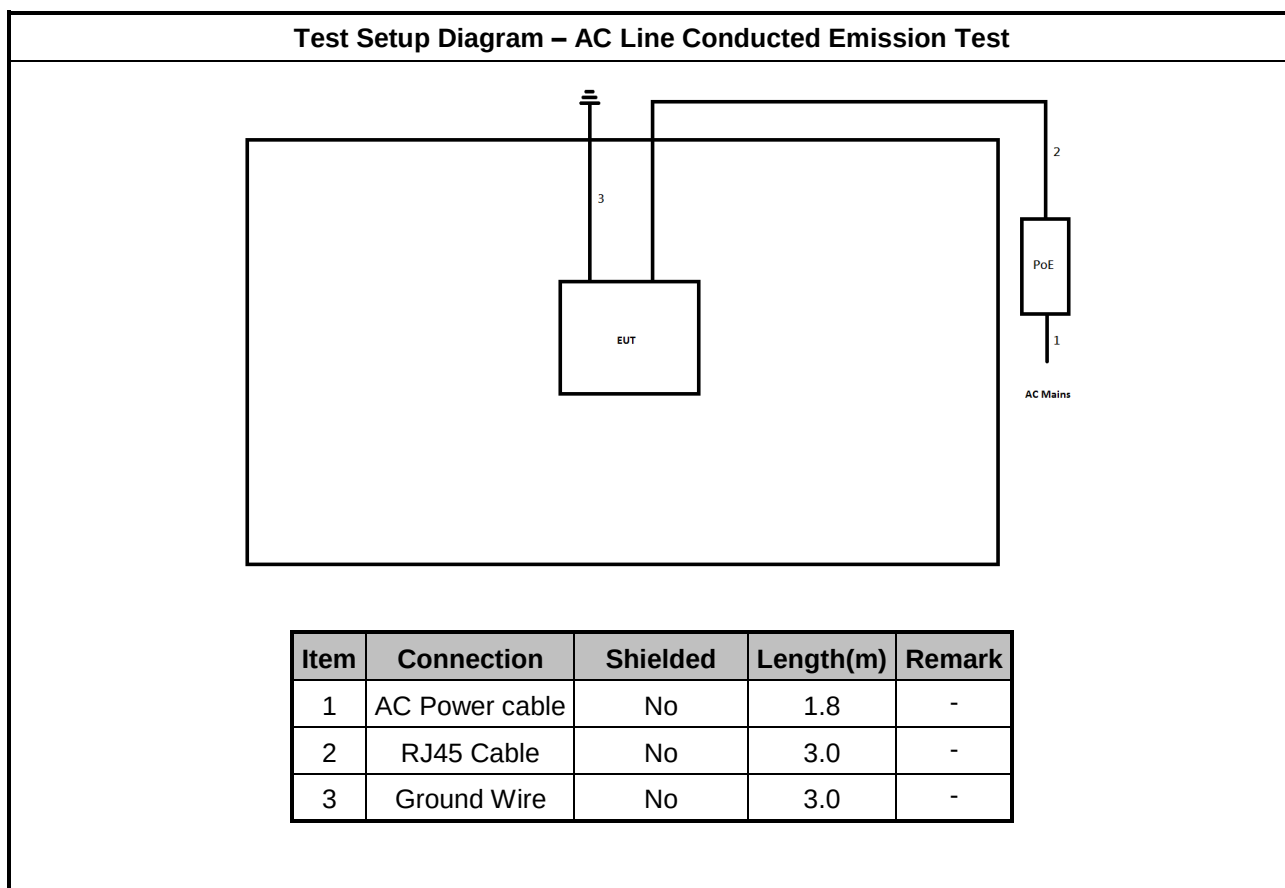
2.4 Support Equipment

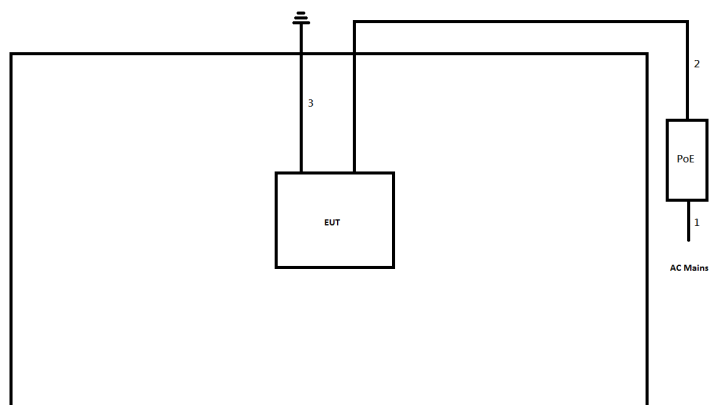
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 Cable	Power sync	CAT-6E-03	-	-
2	PoE	PHIHONG	POE60U-BTA(X460-R)	-	Provided by Customer
3	AC Power Cable	Power Sync	PW-GPC180-3	-	-
4	Ground Wire	Sporton	Sporton	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	PoE*2	PHIHONG	POE60U-BTA (X460-R)	-	Provided by Customer
4	AC Power Cable *2	Power Sync	PW-GPC180-3	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 Cable	Power sync	CAT-6E-03	-	-
2	Ground Wire	Sporton	Sporton	-	-
3	PoE	PHIHONG	POE60U-BTA(X460-R)	-	Provided by Customer
4	AC Power Cable	Power Sync	PW-GPC180-3	-	-

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	RJ45 Cable	No	3.0	-
3	Ground Wire	No	3.0	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

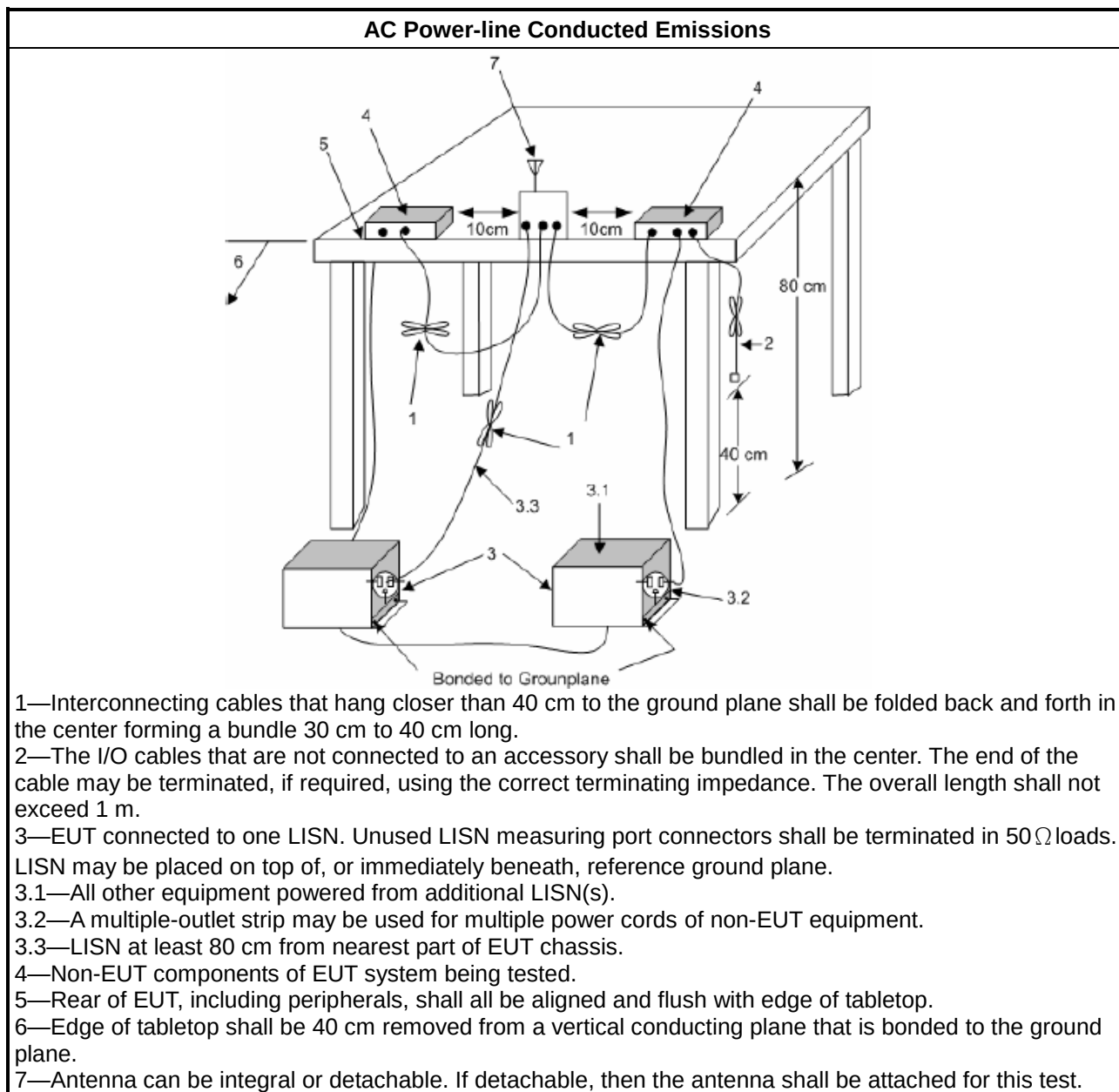
Test Method
☒ Refer as ANSI C63.10, clause 6.2 for AC power-line conducted emissions.

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.

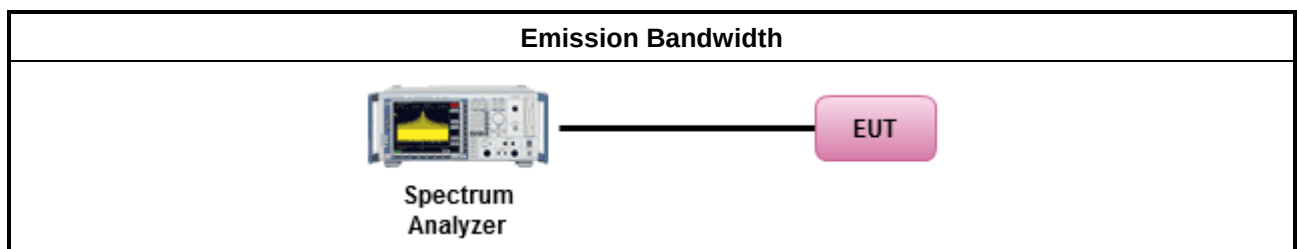
3.2.2 Measuring Instruments

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.	

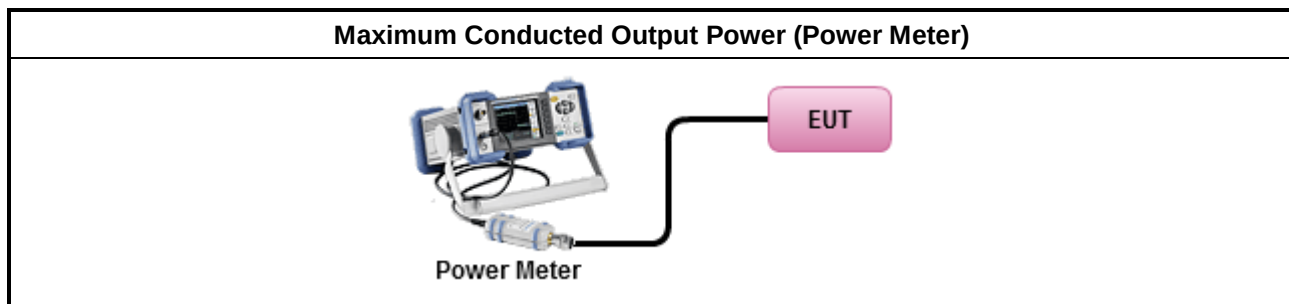
3.3.2 Measuring Instruments

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 integrated band power method.
☐	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.2 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

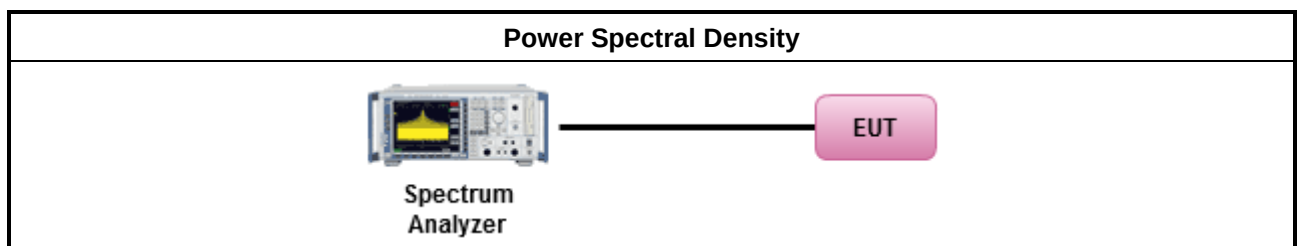
3.4.2 Measuring Instruments

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.	

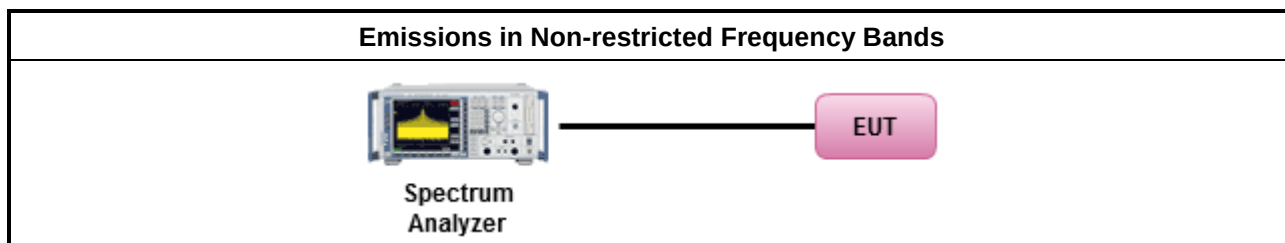
3.5.2 Measuring Instruments

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

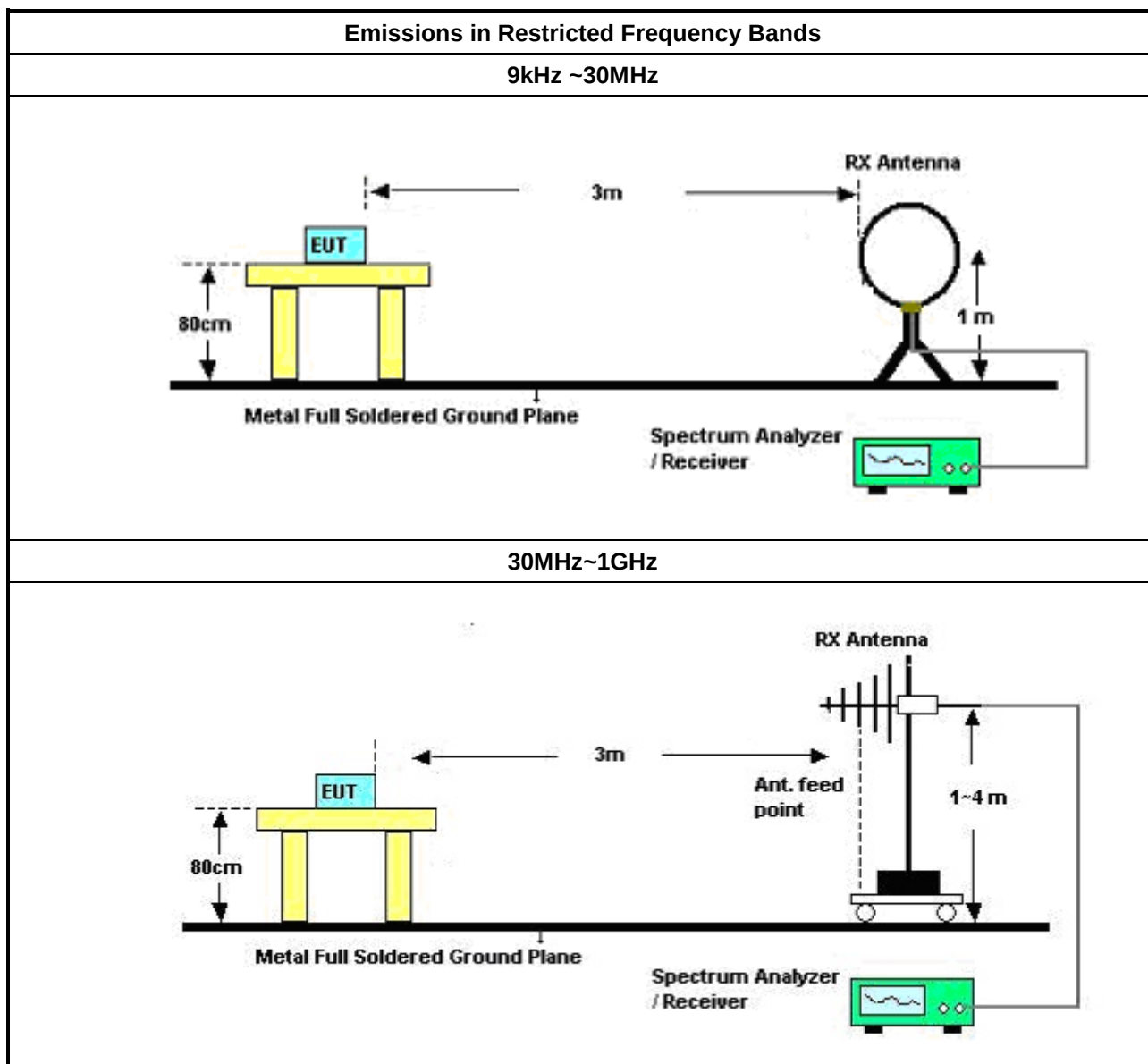
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted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

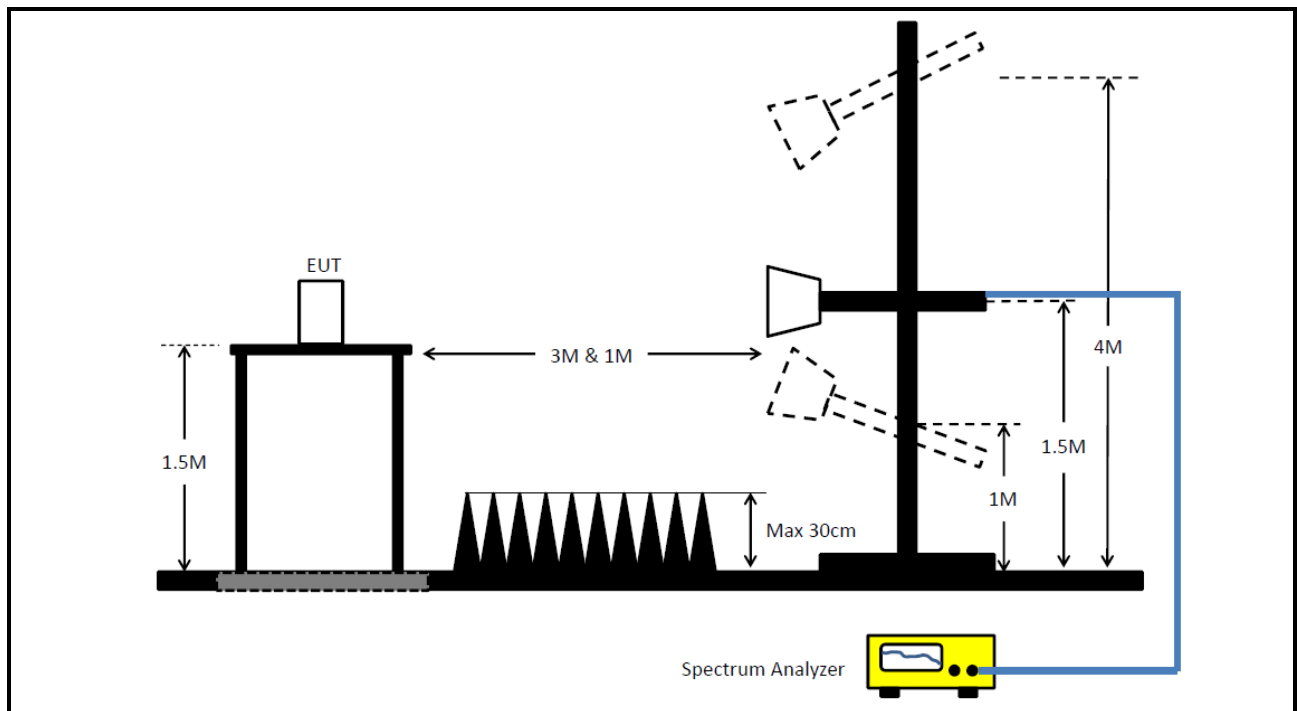
The measured Level is calculated using:

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

3.6.5 Test Setup



Above 1GHz



3.6.6 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESR3	102051	9kHz ~ 3.6GHz	21/May/2025	20/May/2026
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	100003	9kHz ~ 30MHz	18/Apr/2025	17/Apr/2026
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	26/Feb/2025	25/Feb/2026
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	17/Oct/2024	16/Oct/2025
Software	Sporton	SENSE-EMI	V5.11.6	-	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	22/Apr/2025	21/Apr/2026
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	949003	300MHz~40GHz	13/Feb/2025	12/Feb/2026
Pulse Sensor	Anritsu	MA2411B	917017	300MHz~40GHz	13/Feb/2025	12/Feb/2026
SENSE-15247_FS	Sporton	V5.11.27	N/A	N/A	N/A	N/A

Instrument for Radiated Test (03CH24-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	30MHz~1GHz 3m	15/Aug/2025	14/Aug/2026
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	1GHz~18GHz 3m	29/Jul/2025	28/Jul/2026
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	06/Dec/2024	05/Dec/2025
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101345	10Hz~44GHz	27/Aug/2024	26/Aug/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	20/Mar/2025	19/Mar/2026
Bilog Antenna & 6dB Attenuator	TESEQ / Woken	CBL 6112D / 00800N1D01N-06	35376 / 02	30MHz~1GHz	13/Apr/2025	12/Apr/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02744	1GHz~18GHz	07/Aug/2025	06/Aug/2026
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	04/Oct/2024	03/Oct/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	03CH24-cable-01	9kHz~40GHz	01/Oct/2024	30/Sep/2025
Pre-Amplifier	Aglient	8447D	2944A06292	30MHz~1GHz	08/Apr/2025	07/Apr/2026
Amplifier	EM	EM01G18G	060870	1GHz ~18GHz	08/Aug/2025	07/Aug/2026



Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Amplifier	EM	EM18G40GA	060874	18GHz ~40GHz	18/Apr/2025	17/Apr/2026
SENSE-15247-FS	Sporton	V5.11.24	NA	NA	NA	NA

Instrument for Radiated Test (03CH26-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	30MHz~1GHz 3m	06/Aug/2025	05/Aug/2026
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	1GHz~18GHz 3m	06/Aug/2025	05/Aug/2026
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	06/Dec/2024	05/Dec/2025
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101411	10Hz~44GHz	09/Oct/2024	08/Oct/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	20/Mar/2025	19/Mar/2026
Bilog Antenna & 6dB Attenuator	TESEQ & VGT	CBL 6111D & VFA 04002-06	63540/002	30MHz~1GHz	04/Jun/2025	03/Jun/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02877	1GHz~18GHz	02/Jul/2025	01/Jul/2026
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	04/Oct/2024	03/Oct/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	9kHz~1GHz	21/Oct/2024	20/Oct/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	1GHz~40GHz	21/Oct/2024	20/Oct/2025
Preamplifier	SGH	PRAMP 903	20230515-2	30MHz~1GHz	21/May/2025	20/May/2026
Preamplifier	SGH	PRAMP 118-H	20230515-4	1GHz ~18GHz	21/May/2025	20/May/2026
Amplifier	EM	EM18G40G	060874	18GHz ~ 40GHz	18/Apr/2025	17/Apr/2026
SENSE-15247-DTS	Sporton	V5.11.27	NA	NA	NA	NA

Instrument for Radiated Test Co-location (03CH26-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	1GHz~18GHz 3m	06/Aug/2025	05/Aug/2026
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101411	10Hz~44GHz	09/Oct/2024	08/Oct/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02877	1GHz~18GHz	02/Jul/2025	01/Jul/2026
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	04/Oct/2024	03/Oct/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	1GHz~40GHz	21/Oct/2024	20/Oct/2025
Preamplifier	SGH	PRAMP 118-H	20230515-4	1GHz ~18GHz	21/May/2025	20/May/2026
Amplifier	EM	EM18G40G	060874	18GHz ~ 40GHz	18/Apr/2025	17/Apr/2026
SENSE-EMI	Sporton	V5.11.9	NA	NA	NA	NA



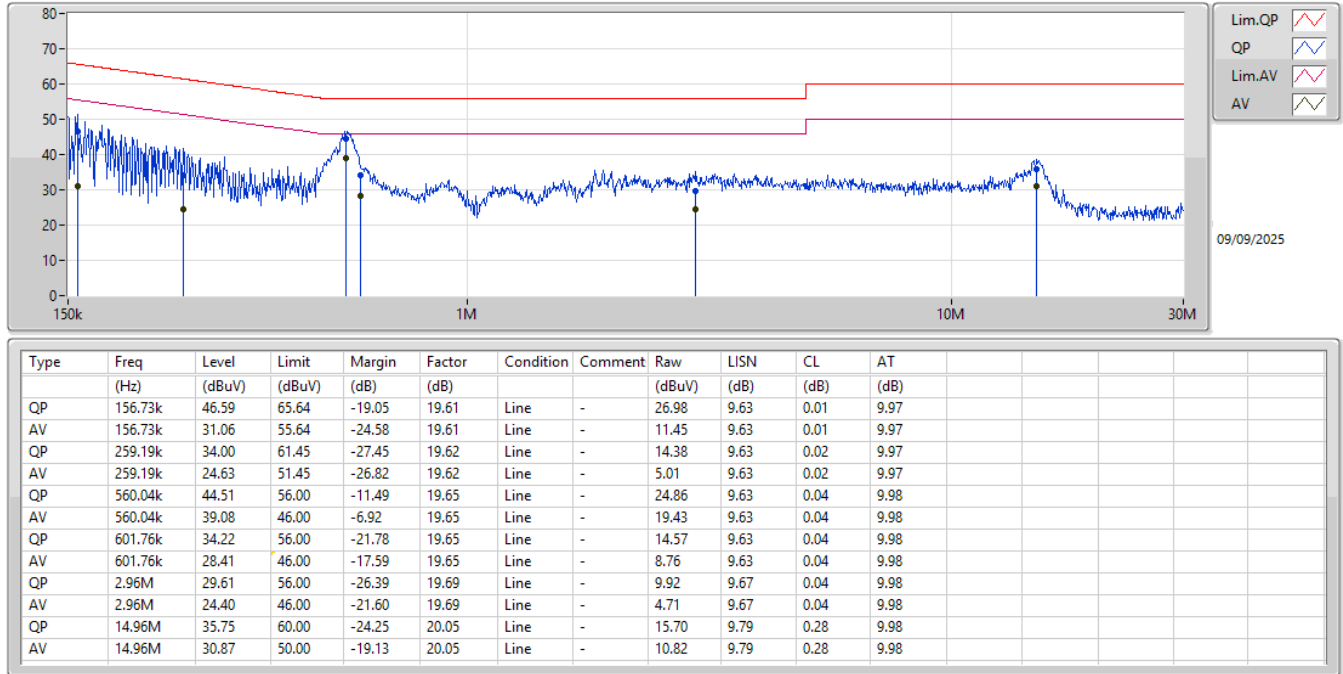
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	564.53k	38.66	46.00	-7.34	Line

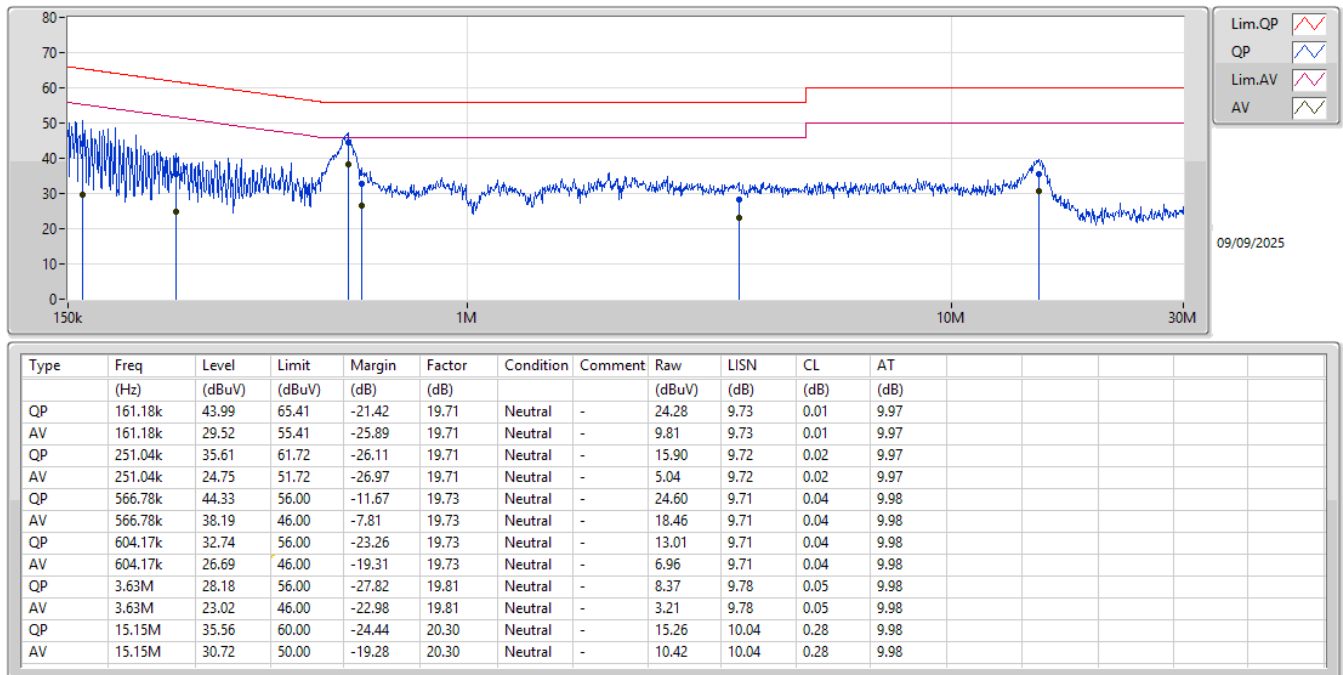
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	158.62k	46.71	65.54	-18.83	Line
Mode 1	Pass	AV	158.62k	30.75	55.54	-24.79	Line
Mode 1	Pass	QP	287.53k	32.29	60.59	-28.30	Line
Mode 1	Pass	AV	287.53k	23.18	50.59	-27.41	Line
Mode 1	Pass	QP	564.53k	44.68	56.00	-11.32	Line
Mode 1	Pass	AV	564.53k	38.66	46.00	-7.34	Line
Mode 1	Pass	QP	606.58k	33.84	56.00	-22.16	Line
Mode 1	Pass	AV	606.58k	28.11	46.00	-17.89	Line
Mode 1	Pass	QP	4.17M	28.54	56.00	-27.46	Line
Mode 1	Pass	AV	4.17M	23.86	46.00	-22.14	Line
Mode 1	Pass	QP	15.08M	35.86	60.00	-24.14	Line
Mode 1	Pass	AV	15.08M	31.01	50.00	-18.99	Line
Mode 1	Pass	QP	153.02k	48.20	65.83	-17.63	Neutral
Mode 1	Pass	AV	153.02k	33.45	55.83	-22.38	Neutral
Mode 1	Pass	QP	255.08k	35.21	61.58	-26.37	Neutral
Mode 1	Pass	AV	255.08k	26.17	51.58	-25.41	Neutral
Mode 1	Pass	QP	564.53k	44.67	56.00	-11.33	Neutral
Mode 1	Pass	AV	564.53k	38.62	46.00	-7.38	Neutral
Mode 1	Pass	QP	613.89k	32.70	56.00	-23.30	Neutral
Mode 1	Pass	AV	613.89k	26.61	46.00	-19.39	Neutral
Mode 1	Pass	QP	3.53M	28.72	56.00	-27.28	Neutral
Mode 1	Pass	AV	3.53M	23.62	46.00	-22.38	Neutral
Mode 1	Pass	QP	15.08M	37.10	60.00	-22.90	Neutral
Mode 1	Pass	AV	15.08M	32.21	50.00	-17.79	Neutral

Conducted Emissions at Powerline_Mode 1



Conducted Emissions at Powerline_Mode 1





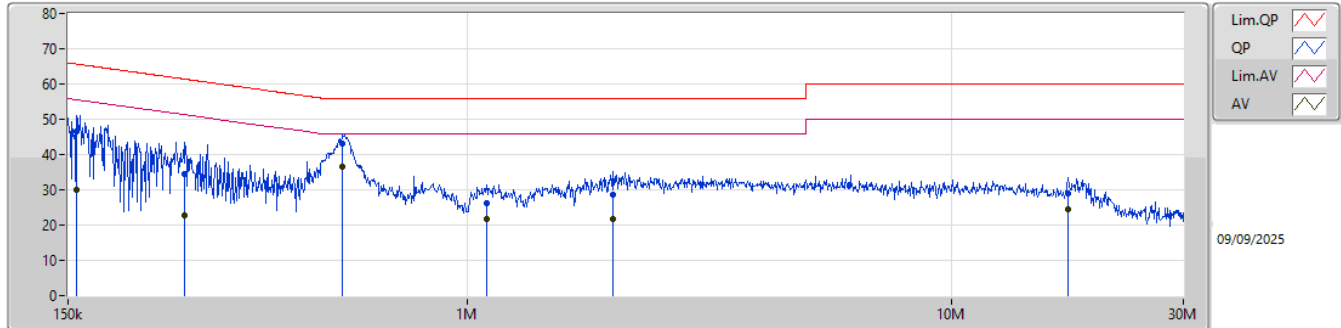
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	551.165k	36.49	46.00	-9.51	Line

Result

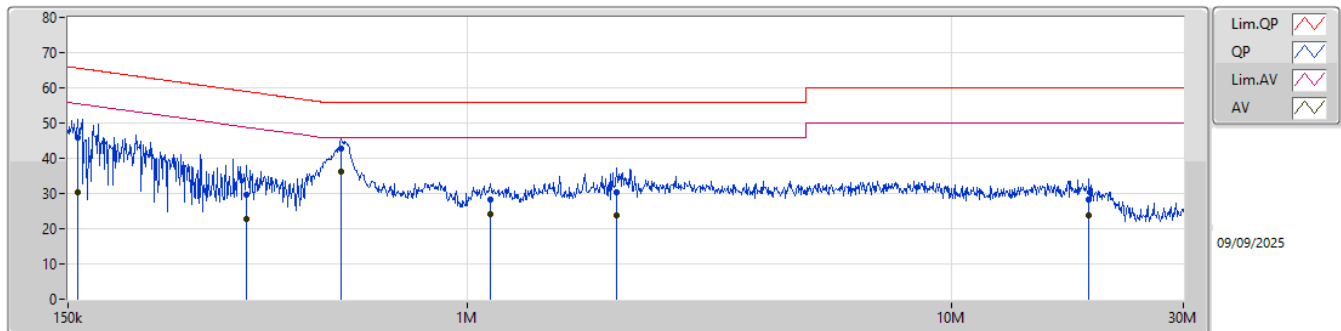
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	156.109k	46.38	65.67	-19.29	Line
Mode 1	Pass	AV	156.109k	30.14	55.67	-25.53	Line
Mode 1	Pass	QP	260.222k	34.44	61.43	-26.99	Line
Mode 1	Pass	AV	260.222k	22.76	51.43	-28.67	Line
Mode 1	Pass	QP	551.165k	43.21	56.00	-12.79	Line
Mode 1	Pass	AV	551.165k	36.49	46.00	-9.51	Line
Mode 1	Pass	QP	1.095M	26.08	56.00	-29.92	Line
Mode 1	Pass	AV	1.095M	21.75	46.00	-24.25	Line
Mode 1	Pass	QP	1.993M	28.60	56.00	-27.40	Line
Mode 1	Pass	AV	1.993M	21.84	46.00	-24.16	Line
Mode 1	Pass	QP	17.346M	29.02	60.00	-30.98	Line
Mode 1	Pass	AV	17.346M	24.45	50.00	-25.55	Line
Mode 1	Pass	QP	157.361k	46.03	65.60	-19.57	Neutral
Mode 1	Pass	AV	157.361k	30.41	55.60	-25.19	Neutral
Mode 1	Pass	QP	349.654k	29.60	58.96	-29.36	Neutral
Mode 1	Pass	AV	349.654k	22.64	48.96	-26.32	Neutral
Mode 1	Pass	QP	548.969k	42.83	56.00	-13.17	Neutral
Mode 1	Pass	AV	548.969k	36.31	46.00	-9.69	Neutral
Mode 1	Pass	QP	1.113M	28.28	56.00	-27.72	Neutral
Mode 1	Pass	AV	1.113M	24.10	46.00	-21.90	Neutral
Mode 1	Pass	QP	2.033M	30.48	56.00	-25.52	Neutral
Mode 1	Pass	AV	2.033M	23.80	46.00	-22.20	Neutral
Mode 1	Pass	QP	19.167M	28.13	60.00	-31.87	Neutral
Mode 1	Pass	AV	19.167M	23.91	50.00	-26.09	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	156.109k	46.38	65.67	-19.29	19.61	Line	-	26.77	9.63	0.01	9.97						
AV	156.109k	30.14	55.67	-25.53	19.61	Line	-	10.53	9.63	0.01	9.97						
QP	260.222k	34.44	61.43	-26.99	19.62	Line	-	14.82	9.63	0.02	9.97						
AV	260.222k	22.76	51.43	-28.67	19.62	Line	-	3.14	9.63	0.02	9.97						
QP	551.165k	43.21	56.00	-12.79	19.65	Line	-	23.56	9.63	0.04	9.98						
AV	551.165k	36.49	46.00	-9.51	19.65	Line	-	16.84	9.63	0.04	9.98						
QP	1.095M	26.08	56.00	-29.92	19.67	Line	-	6.41	9.64	0.05	9.98						
AV	1.095M	21.75	46.00	-24.25	19.67	Line	-	2.08	9.64	0.05	9.98						
QP	1.993M	28.60	56.00	-27.40	19.66	Line	-	8.94	9.66	0.03	9.97						
AV	1.993M	21.84	46.00	-24.16	19.66	Line	-	2.18	9.66	0.03	9.97						
QP	17.346M	29.02	60.00	-30.98	20.05	Line	-	8.97	9.79	0.28	9.98						
AV	17.346M	24.45	50.00	-25.55	20.05	Line	-	4.40	9.79	0.28	9.98						

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	157.361k	46.03	65.60	-19.57	19.71	Neutral	-	26.32	9.73	0.01	9.97						
AV	157.361k	30.41	55.60	-25.19	19.71	Neutral	-	10.70	9.73	0.01	9.97						
QP	349.654k	29.60	58.96	-29.36	19.72	Neutral	-	9.88	9.71	0.03	9.98						
AV	349.654k	22.64	48.96	-26.32	19.72	Neutral	-	2.92	9.71	0.03	9.98						
QP	548.969k	42.83	56.00	-13.17	19.73	Neutral	-	23.10	9.71	0.04	9.98						
AV	548.969k	36.31	46.00	-9.69	19.73	Neutral	-	16.58	9.71	0.04	9.98						
QP	1.113M	28.28	56.00	-27.72	19.75	Neutral	-	8.53	9.72	0.05	9.98						
AV	1.113M	24.10	46.00	-21.90	19.75	Neutral	-	4.35	9.72	0.05	9.98						
QP	2.033M	30.48	56.00	-25.52	19.74	Neutral	-	10.74	9.74	0.03	9.97						
AV	2.033M	23.80	46.00	-22.20	19.74	Neutral	-	4.06	9.74	0.03	9.97						
QP	19.167M	28.13	60.00	-31.87	20.34	Neutral	-	7.79	10.08	0.28	9.98						
AV	19.167M	23.91	50.00	-26.09	20.34	Neutral	-	3.57	10.08	0.28	9.98						



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.15.4	1.6M	2.379M	2M38D1D	1.6M	2.323M

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)
802.15.4	-	-	-	-
2405MHz	Pass	500k	1.6M	2.355M
2440MHz	Pass	500k	1.6M	2.379M
2480MHz	Pass	500k	1.6M	2.323M

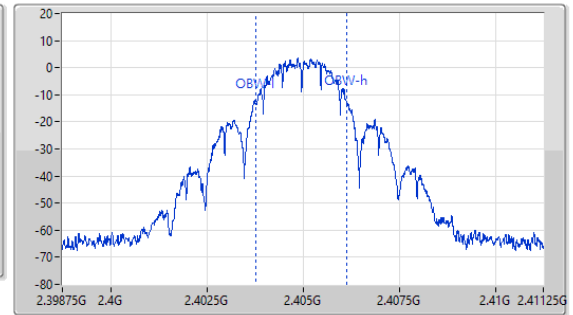
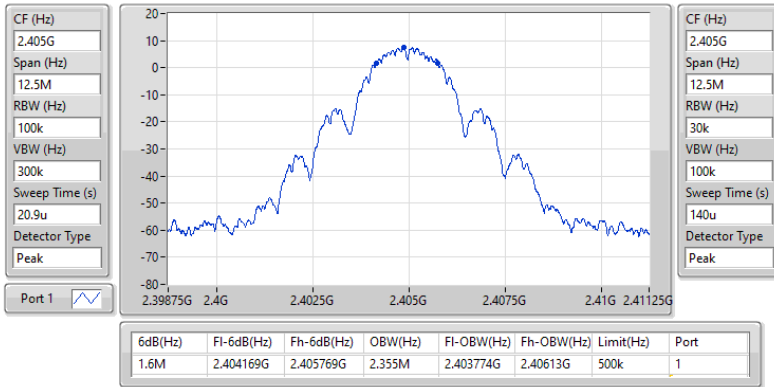
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.15.4

EBW-DTS

2405MHz

01/09/2025





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.15.4	1.613M	2.343M	2M34D1D	1.531M	2.336M

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)
802.15.4	-	-	-	-
2405MHz	Pass	500k	1.613M	2.336M
2440MHz	Pass	500k	1.575M	2.343M
2480MHz	Pass	500k	1.531M	2.336M

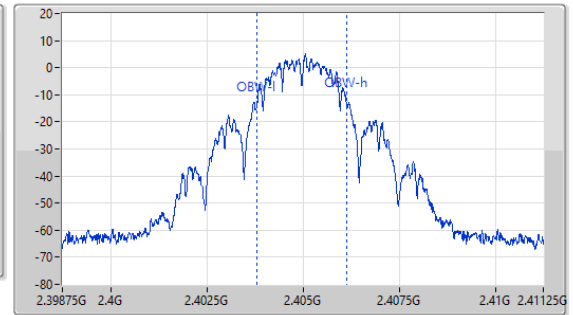
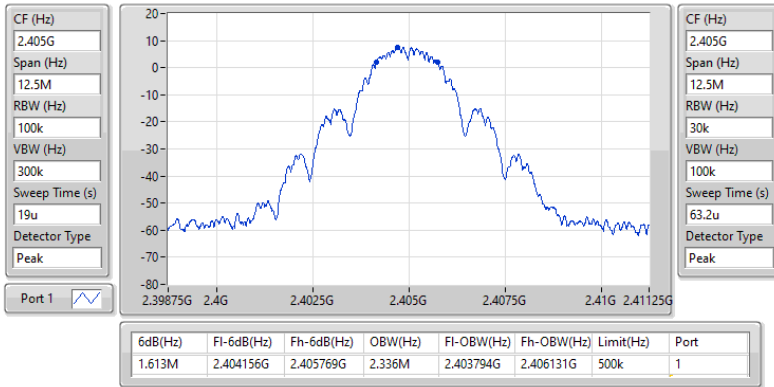
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.15.4

EBW-DTS

2405MHz

27/08/2025





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.15.4	12.53	0.01791



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
802.15.4	-	-	-	-
2405MHz	Pass	5.10	12.41	30.00
2440MHz	Pass	5.10	12.53	30.00
2480MHz	Pass	5.10	12.07	30.00

DG = Directional Gain; Port X = Port X output power;
Inf = There's no restriction for the limit.



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.15.4	12.42	0.01746



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
802.15.4	-	-	-	-
2405MHz	Pass	3.90	12.07	30.00
2440MHz	Pass	3.90	12.42	30.00
2480MHz	Pass	3.90	12.22	30.00

DG = Directional Gain; Port X = Port X output power;
Inf = There's no restriction for the limit.



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.15.4	-3.35

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.15.4	-	-	-	-
2405MHz	Pass	5.10	-3.70	8.00
2440MHz	Pass	5.10	-3.35	8.00
2480MHz	Pass	5.10	-4.10	8.00

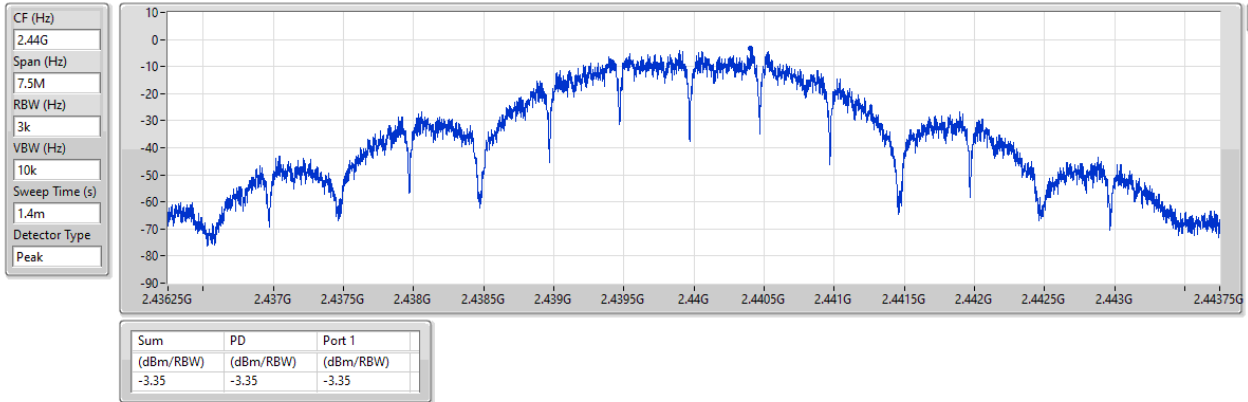
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

2.4-2.4835GHz_802.15.4

PSD

2440MHz

01/09/2025





Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.15.4	-2.98

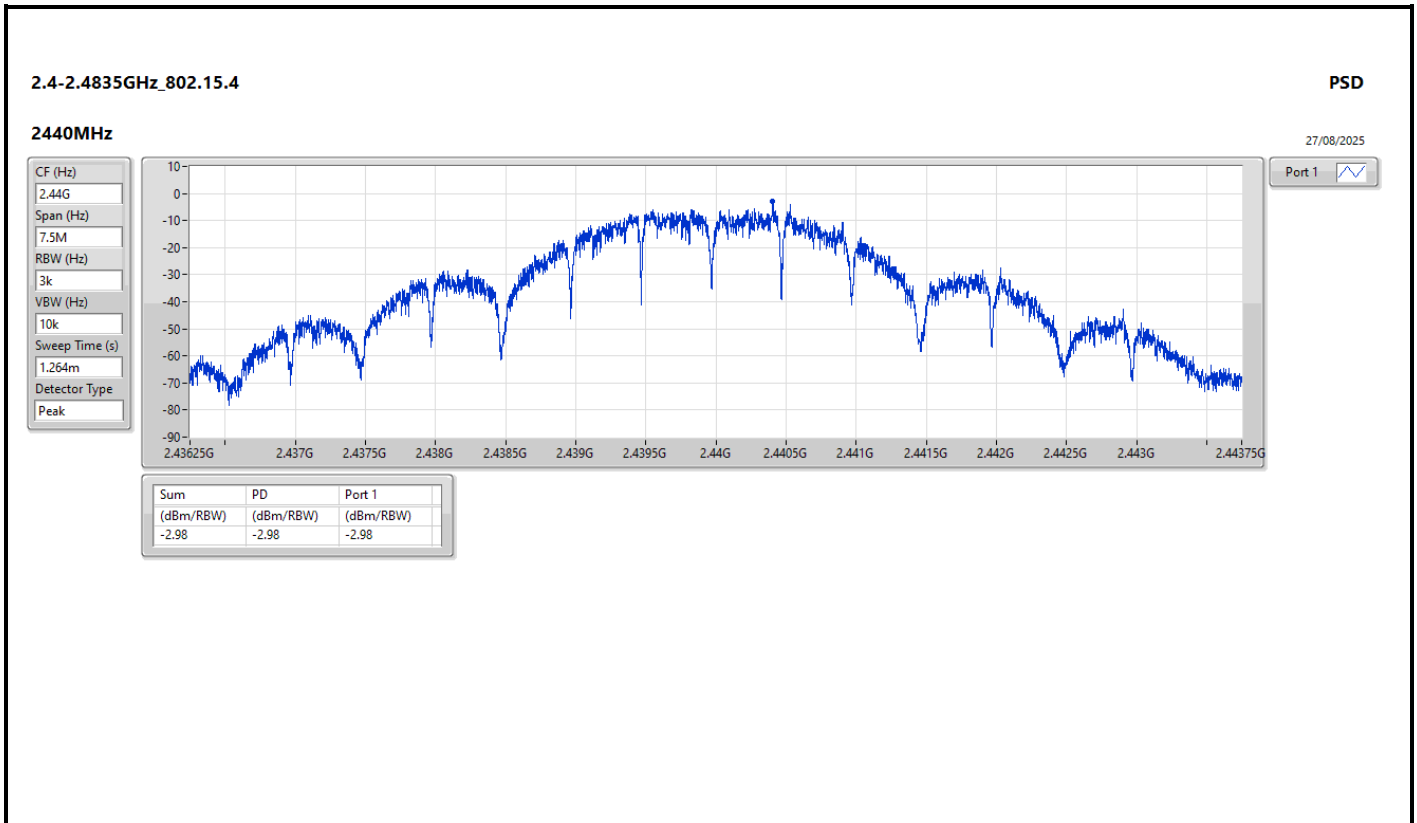
RBW = 3kHz;



Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.15.4	-	-	-	-
2405MHz	Pass	3.90	-3.64	8.00
2440MHz	Pass	3.90	-2.98	8.00
2480MHz	Pass	3.90	-4.56	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;
Inf = There's no restriction for the limit.





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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.15.4	Pass	2.44041G	8.55	-21.45	2.18613G	-54.96	2.39468G	-53.01	2.4G	-56.55	2.50182G	-54.81	21.60584G	-44.41	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
802.15.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2405MHz	Pass	2.44041G	8.55	-21.45	1.85595G	-55.01	2.39764G	-54.29	2.4G	-54.70	2.50262G	-54.13	21.6199G	-44.58	1
2440MHz	Pass	2.44041G	8.55	-21.45	2.18613G	-54.96	2.39468G	-53.01	2.4G	-56.55	2.50182G	-54.81	21.60584G	-44.41	1
2480MHz	Pass	2.44041G	8.55	-21.45	2.07803G	-54.49	2.3944G	-54.30	2.4G	-57.89	2.50238G	-55.17	21.97984G	-44.85	1

2.4-2.4835GHz_802.15.4

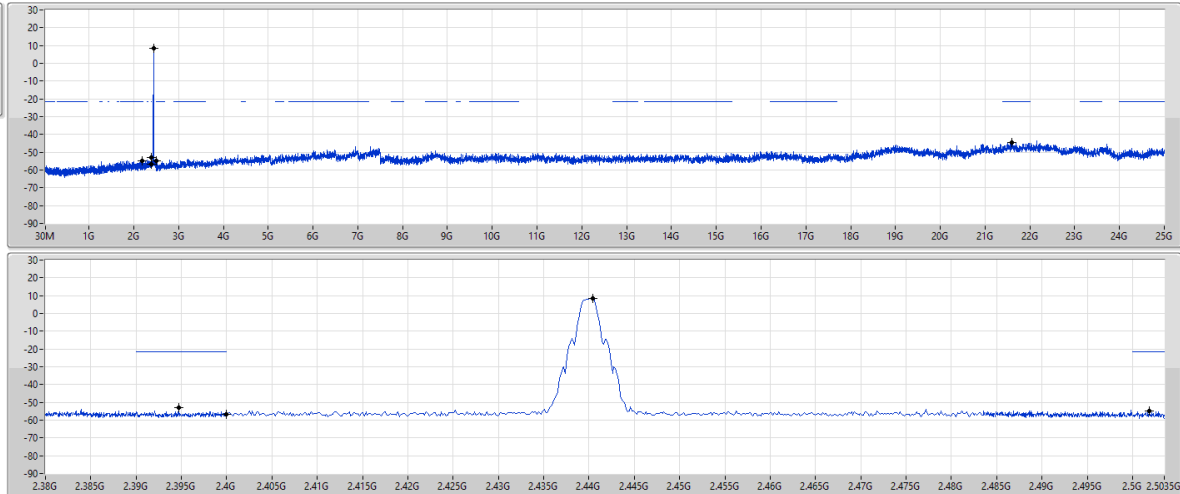
CSEndB-DTS

2440MHz

01/09/2025

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
2.44041G	8.55	-21.45	2.18613G	-54.96	2.39468G	-53.01	2.4G	-56.55	2.50182G	-54.81	21.60584G	-44.41	1

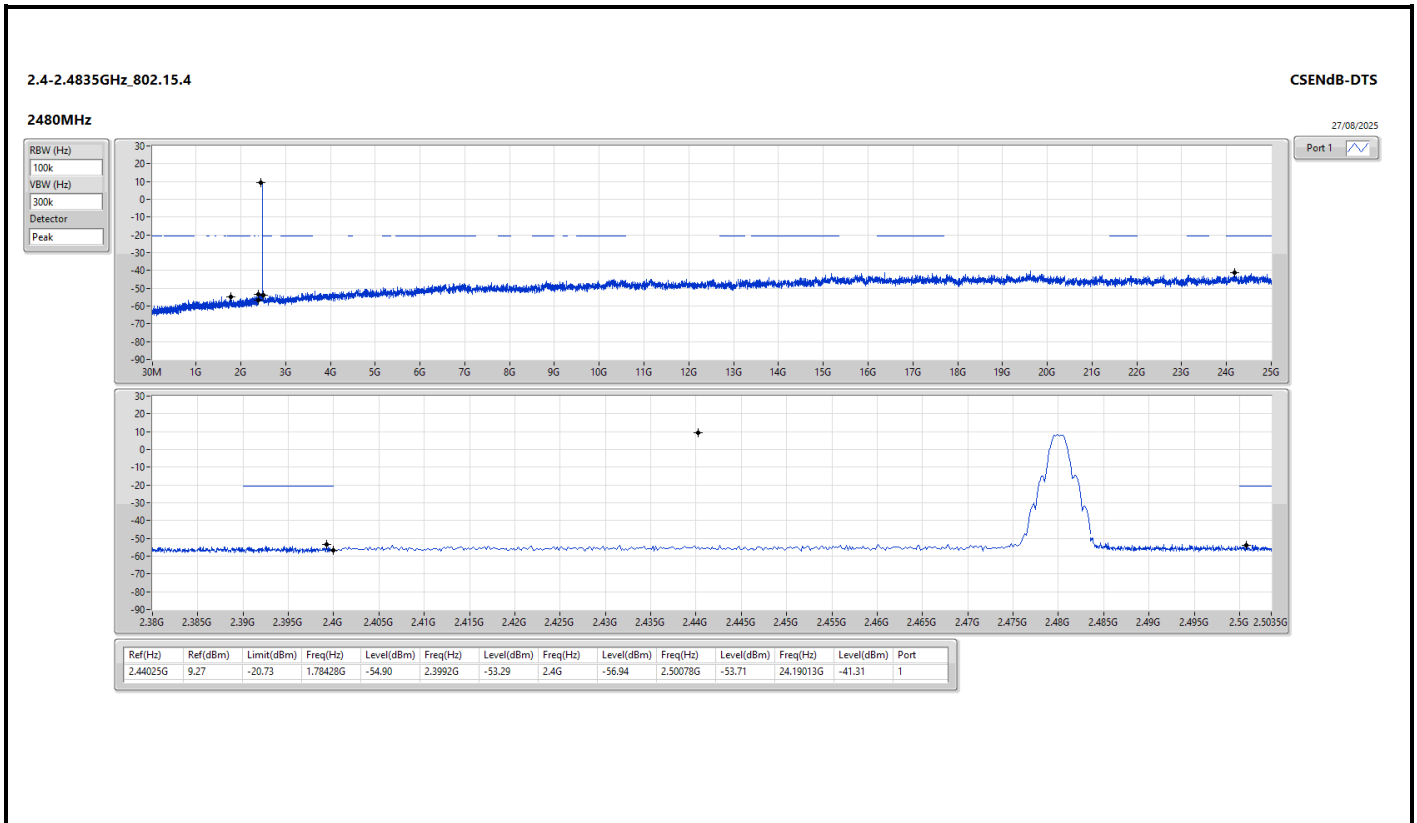


Summary

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.15.4	Pass	2.44025G	9.27	-20.73	1.78428G	-54.90	2.3992G	-53.29	2.4G	-56.94	2.50078G	-53.71	24.19013G	-41.31	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
802.15.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2405MHz	Pass	2.44025G	9.27	-20.73	1.89238G	-55.46	2.39876G	-53.67	2.4G	-53.39	2.50018G	-54.06	17.10935G	-41.83	1
2440MHz	Pass	2.44025G	9.27	-20.73	2.16733G	-55.57	2.3932G	-54.18	2.4G	-55.79	2.50294G	-54.49	21.90392G	-41.21	1
2480MHz	Pass	2.44025G	9.27	-20.73	1.78428G	-54.90	2.3992G	-53.29	2.4G	-56.94	2.50078G	-53.71	24.19013G	-41.31	1





Summary

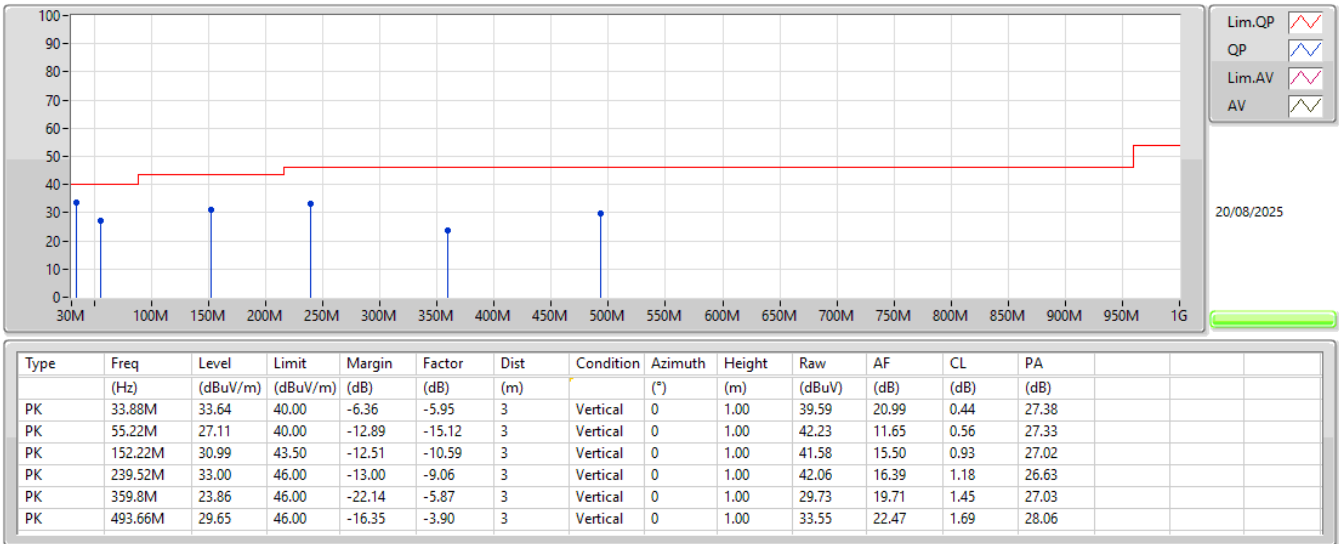
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.15.4	Pass	PK	33.88M	33.64	40.00	-6.36	3	Vertical	0	1.00

**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.15.4	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	33.88M	33.64	40.00	-6.36	3	Vertical	0	1.00
2440MHz	Pass	PK	55.22M	27.11	40.00	-12.89	3	Vertical	0	1.00
2440MHz	Pass	PK	152.22M	30.99	43.50	-12.51	3	Vertical	0	1.00
2440MHz	Pass	PK	239.52M	33.00	46.00	-13.00	3	Vertical	0	1.00
2440MHz	Pass	PK	359.8M	23.86	46.00	-22.14	3	Vertical	0	1.00
2440MHz	Pass	PK	493.66M	29.65	46.00	-16.35	3	Vertical	0	1.00
2440MHz	Pass	PK	33.88M	23.26	40.00	-16.74	3	Horizontal	360	1.00
2440MHz	Pass	PK	62.98M	23.20	40.00	-16.80	3	Horizontal	360	1.00
2440MHz	Pass	PK	92.08M	23.71	43.50	-19.79	3	Horizontal	360	1.00
2440MHz	Pass	PK	150.28M	30.55	43.50	-12.95	3	Horizontal	360	1.00
2440MHz	Pass	PK	243.4M	38.02	46.00	-7.98	3	Horizontal	360	1.00
2440MHz	Pass	PK	542.16M	27.05	46.00	-18.95	3	Horizontal	360	1.00

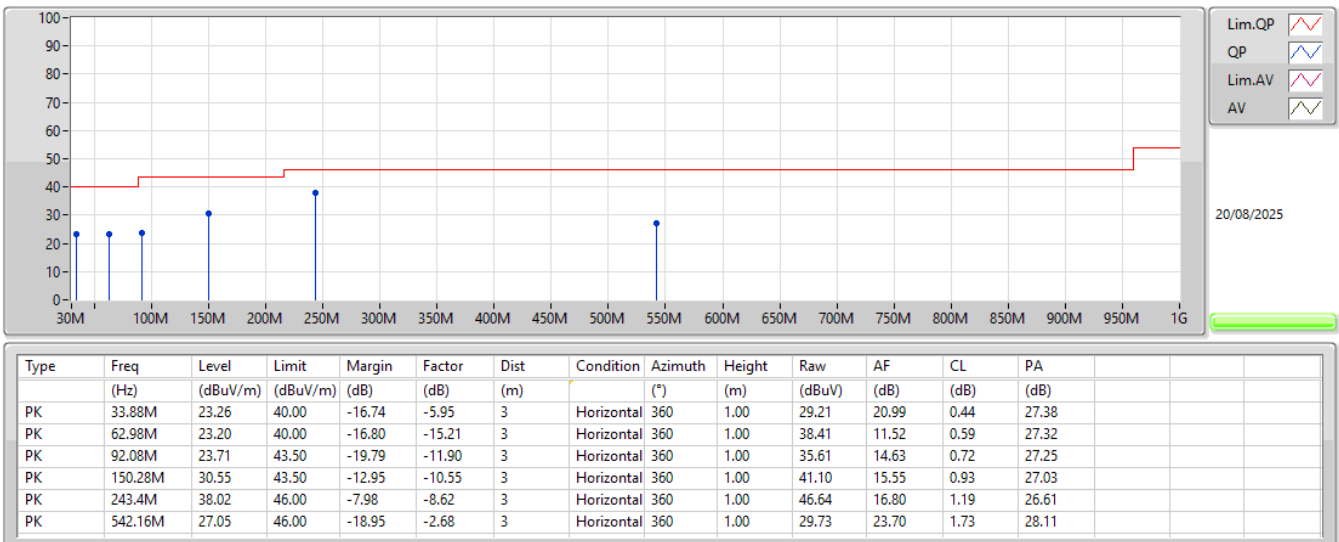
2.4-2.4835GHz_802.15.4

2440MHz_PoE



2.4-2.4835GHz_802.15.4

2440MHz_PoE





Summary

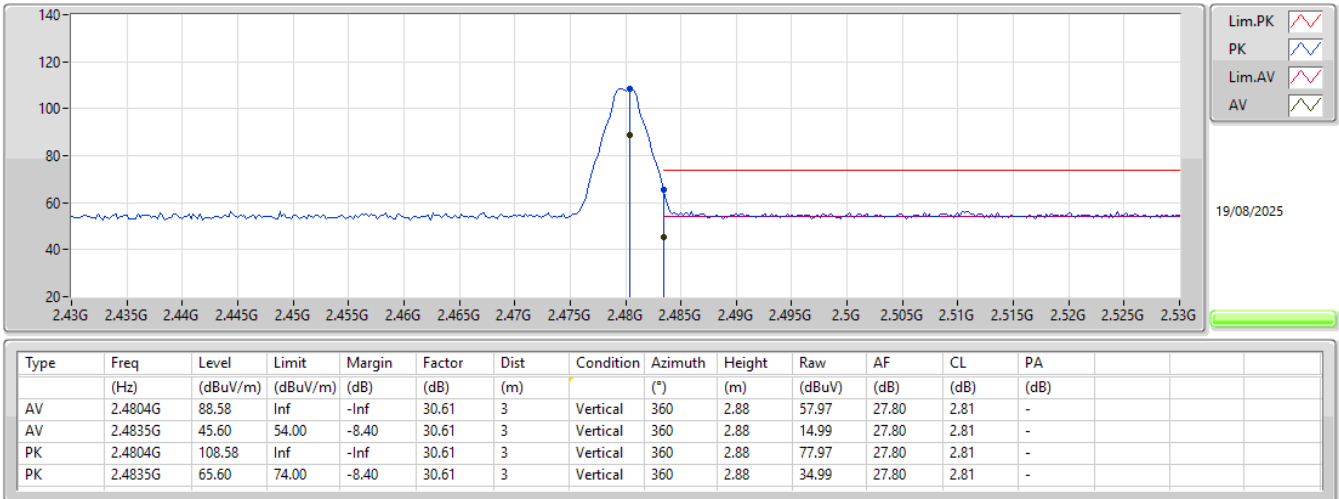
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.15.4	Pass	AV	2.4835G	46.31	54.00	-7.69	3	Horizontal	45	1.55

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.15.4	-	-	-	-	-	-	-	-	-	-
2405MHz	Pass	AV	2.37G	35.59	54.00	-18.41	3	Vertical	29	2.67
2405MHz	Pass	AV	2.4054G	89.71	Inf	-Inf	3	Vertical	29	2.67
2405MHz	Pass	PK	2.37G	55.59	74.00	-18.41	3	Vertical	29	2.67
2405MHz	Pass	PK	2.4054G	109.71	Inf	-Inf	3	Vertical	29	2.67
2405MHz	Pass	AV	2.3592G	35.47	54.00	-18.53	3	Horizontal	47	1.94
2405MHz	Pass	AV	2.4044G	90.93	Inf	-Inf	3	Horizontal	47	1.94
2405MHz	Pass	PK	2.3592G	55.47	74.00	-18.53	3	Horizontal	47	1.94
2405MHz	Pass	PK	2.4044G	110.93	Inf	-Inf	3	Horizontal	47	1.94
2405MHz	Pass	AV	4.81544G	20.00	54.00	-34.00	3	Vertical	247	1.05
2405MHz	Pass	PK	4.81544G	40.00	74.00	-34.00	3	Vertical	247	1.05
2405MHz	Pass	AV	4.81428G	20.08	54.00	-33.92	3	Horizontal	82	2.80
2405MHz	Pass	PK	4.81428G	40.08	74.00	-33.92	3	Horizontal	82	2.80
2440MHz	Pass	AV	2.3652G	36.33	54.00	-17.67	3	Vertical	29	2.97
2440MHz	Pass	AV	2.4396G	90.24	Inf	-Inf	3	Vertical	29	2.97
2440MHz	Pass	AV	2.4924G	36.82	54.00	-17.18	3	Vertical	29	2.97
2440MHz	Pass	PK	2.3652G	56.33	74.00	-17.67	3	Vertical	29	2.97
2440MHz	Pass	PK	2.4396G	110.24	Inf	-Inf	3	Vertical	29	2.97
2440MHz	Pass	PK	2.4924G	56.82	74.00	-17.18	3	Vertical	29	2.97
2440MHz	Pass	AV	2.3608G	36.51	54.00	-17.49	3	Horizontal	48	1.92
2440MHz	Pass	AV	2.4396G	89.97	Inf	-Inf	3	Horizontal	48	1.92
2440MHz	Pass	AV	2.486G	35.75	54.00	-18.25	3	Horizontal	48	1.92
2440MHz	Pass	PK	2.3608G	56.51	74.00	-17.49	3	Horizontal	48	1.92
2440MHz	Pass	PK	2.4396G	109.97	Inf	-Inf	3	Horizontal	48	1.92
2440MHz	Pass	PK	2.486G	55.75	74.00	-18.25	3	Horizontal	48	1.92
2440MHz	Pass	AV	4.88344G	19.87	54.00	-34.13	3	Vertical	277	2.08
2440MHz	Pass	PK	4.88344G	39.87	74.00	-34.13	3	Vertical	277	2.08
2440MHz	Pass	AV	4.88344G	20.53	54.00	-33.47	3	Horizontal	145	1.50
2440MHz	Pass	PK	4.88344G	40.53	74.00	-33.47	3	Horizontal	145	1.50
2480MHz	Pass	AV	2.4804G	88.58	Inf	-Inf	3	Vertical	360	2.88
2480MHz	Pass	AV	2.4835G	45.60	54.00	-8.40	3	Vertical	360	2.88
2480MHz	Pass	PK	2.4804G	108.58	Inf	-Inf	3	Vertical	360	2.88
2480MHz	Pass	PK	2.4835G	65.60	74.00	-8.40	3	Vertical	360	2.88
2480MHz	Pass	AV	2.4804G	89.21	Inf	-Inf	3	Horizontal	45	1.55
2480MHz	Pass	AV	2.4835G	46.31	54.00	-7.69	3	Horizontal	45	1.55
2480MHz	Pass	PK	2.4804G	109.21	Inf	-Inf	3	Horizontal	45	1.55
2480MHz	Pass	PK	2.4835G	66.31	74.00	-7.69	3	Horizontal	45	1.55
2480MHz	Pass	AV	4.96028G	21.05	54.00	-32.95	3	Vertical	0	2.01
2480MHz	Pass	PK	4.96028G	41.05	74.00	-32.95	3	Vertical	0	2.01
2480MHz	Pass	AV	4.96152G	21.02	54.00	-32.98	3	Horizontal	360	1.50
2480MHz	Pass	PK	4.96152G	41.02	74.00	-32.98	3	Horizontal	360	1.50

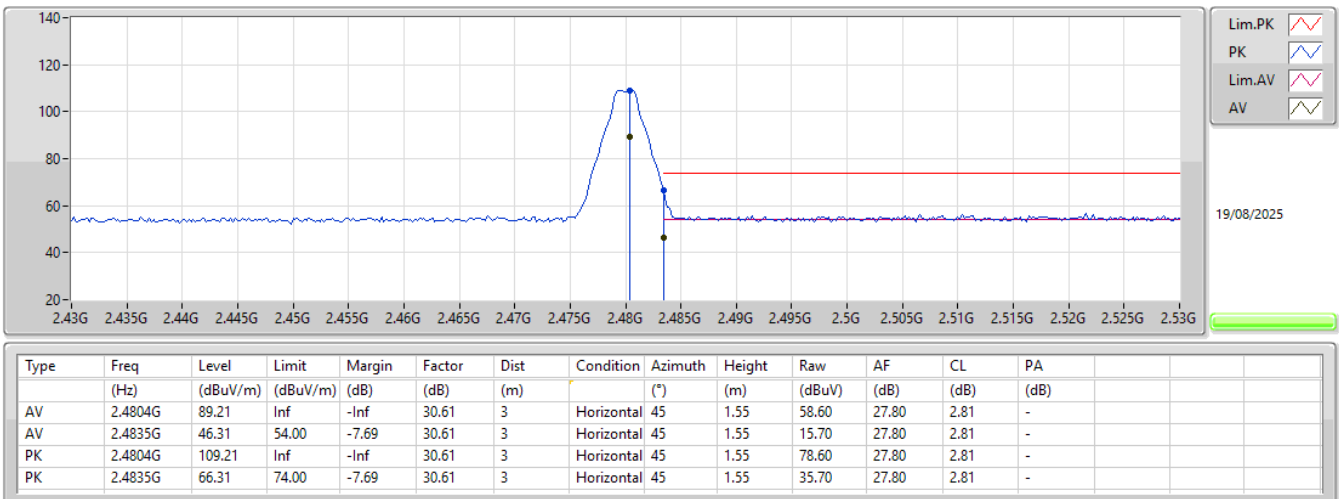
2.4-2.4835GHz_802.15.4

2480MHz_TX



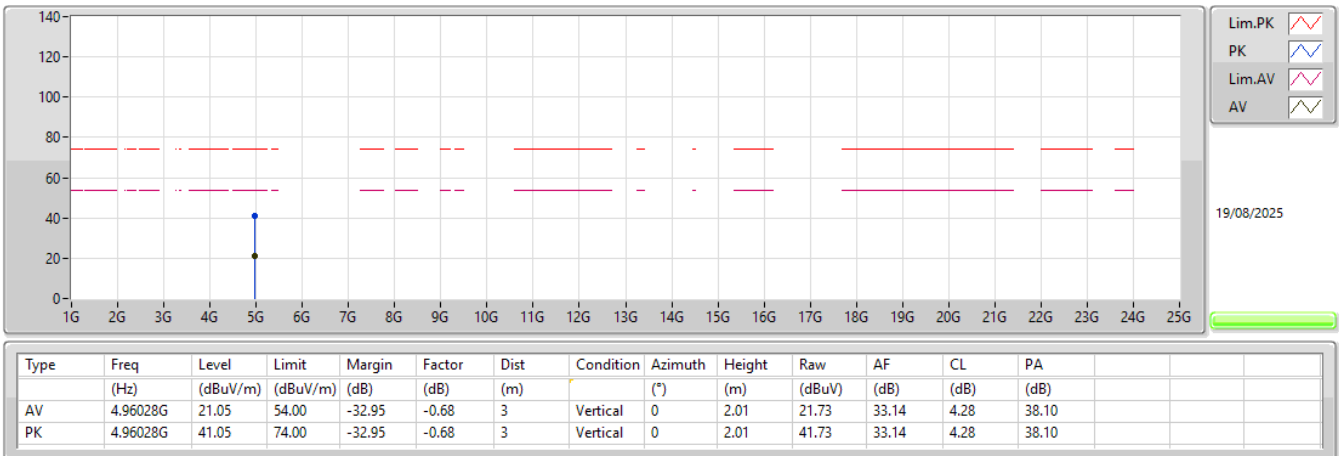
2.4-2.4835GHz_802.15.4

2480MHz_TX



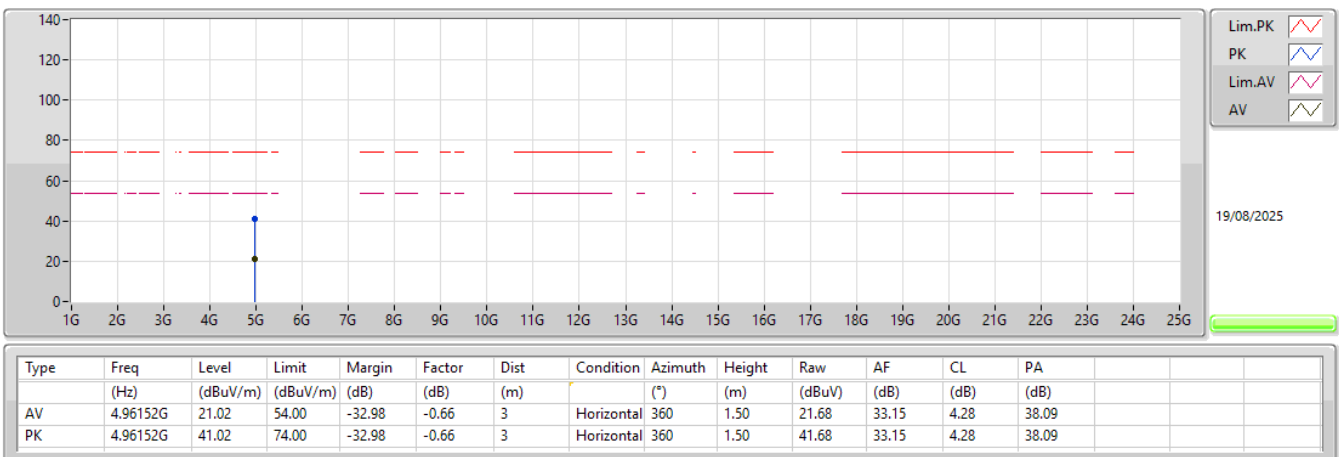
2.4-2.4835GHz_802.15.4

2480MHz_TX



2.4-2.4835GHz_802.15.4

2480MHz_TX





Summary

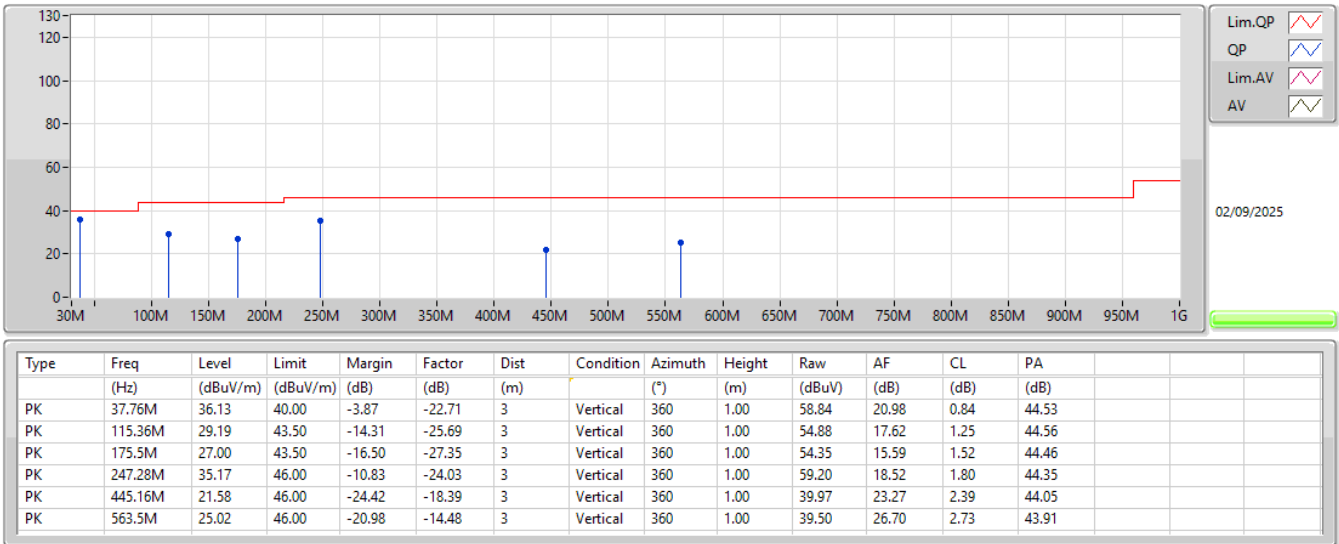
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.15.4	Pass	PK	37.76M	36.13	40.00	-3.87	3	Vertical	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.15.4	-	-	-	-	-	-	-	-	-	-
2440MHz_PoE	Pass	PK	37.76M	36.13	40.00	-3.87	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	115.36M	29.19	43.50	-14.31	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	175.5M	27.00	43.50	-16.50	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	247.28M	35.17	46.00	-10.83	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	445.16M	21.58	46.00	-24.42	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	563.5M	25.02	46.00	-20.98	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	43.58M	29.47	40.00	-10.53	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	82.38M	24.42	40.00	-15.58	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	183.26M	25.67	43.50	-17.83	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	249.22M	36.52	46.00	-9.48	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	369.5M	20.78	46.00	-25.22	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	575.14M	25.10	46.00	-20.90	3	Horizontal	0	1.00

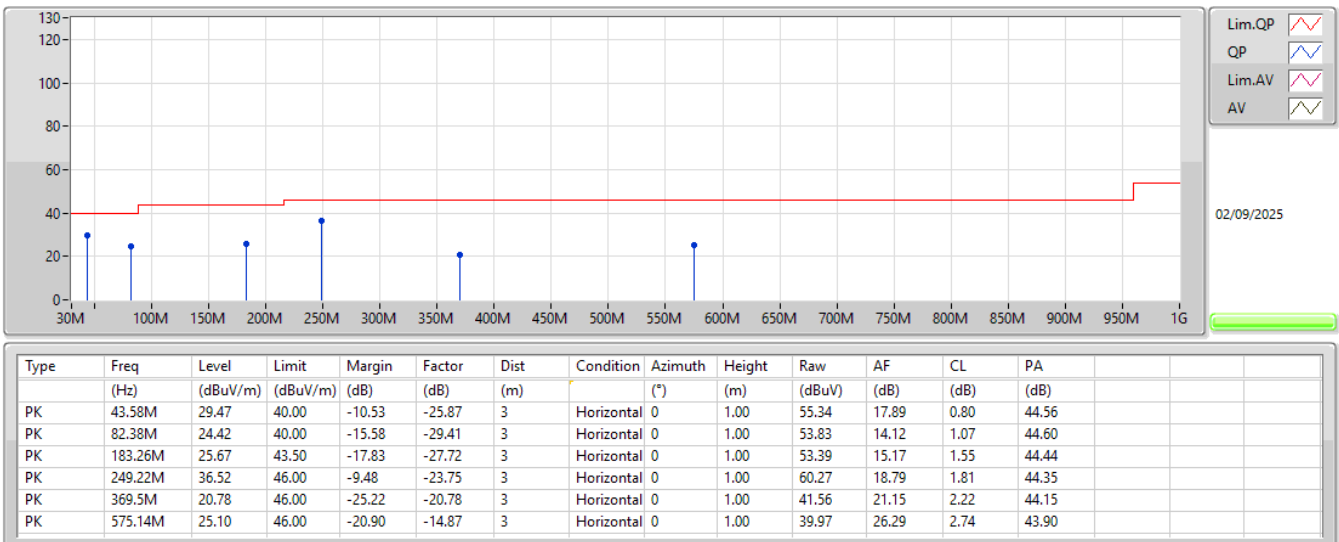
2.4-2.4835GHz_802.15.4

2440MHz_PoE



2.4-2.4835GHz_802.15.4

2440MHz_PoE





Summary

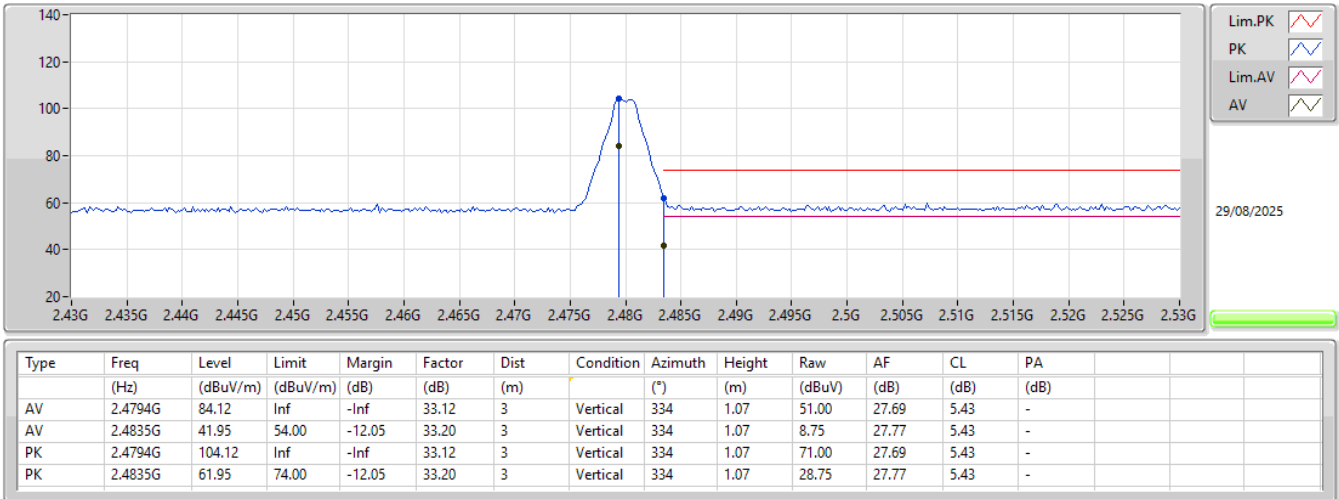
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.15.4	Pass	AV	2.4835G	44.33	54.00	-9.67	3	Horizontal	26	1.50

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.15.4	-	-	-	-	-	-	-	-	-	-
2405MHz	Pass	AV	2.3886G	38.08	54.00	-15.92	3	Vertical	345	1.23
2405MHz	Pass	AV	2.4044G	87.76	Inf	-Inf	3	Vertical	345	1.23
2405MHz	Pass	PK	2.3886G	58.08	74.00	-15.92	3	Vertical	345	1.23
2405MHz	Pass	PK	2.4044G	107.76	Inf	-Inf	3	Vertical	345	1.23
2405MHz	Pass	AV	2.3588G	37.69	54.00	-16.31	3	Horizontal	32	2.24
2405MHz	Pass	AV	2.4054G	90.77	Inf	-Inf	3	Horizontal	32	2.24
2405MHz	Pass	PK	2.3588G	57.69	74.00	-16.31	3	Horizontal	32	2.24
2405MHz	Pass	PK	2.4054G	110.77	Inf	-Inf	3	Horizontal	32	2.24
2405MHz	Pass	AV	4.81104G	24.12	54.00	-29.88	3	Vertical	76	1.11
2405MHz	Pass	PK	4.81104G	44.12	74.00	-29.88	3	Vertical	76	1.11
2405MHz	Pass	AV	4.80754G	24.42	54.00	-29.58	3	Horizontal	10	1.50
2405MHz	Pass	PK	4.80754G	44.42	74.00	-29.58	3	Horizontal	10	1.50
2440MHz	Pass	AV	2.3712G	37.66	54.00	-16.34	3	Vertical	339	1.20
2440MHz	Pass	AV	2.4396G	87.11	Inf	-Inf	3	Vertical	339	1.20
2440MHz	Pass	AV	2.4884G	38.70	54.00	-15.30	3	Vertical	339	1.20
2440MHz	Pass	PK	2.3712G	57.66	74.00	-16.34	3	Vertical	339	1.20
2440MHz	Pass	PK	2.4396G	107.11	Inf	-Inf	3	Vertical	339	1.20
2440MHz	Pass	PK	2.4884G	58.70	74.00	-15.30	3	Vertical	339	1.20
2440MHz	Pass	AV	2.3516G	38.31	54.00	-15.69	3	Horizontal	25	2.72
2440MHz	Pass	AV	2.4396G	89.06	Inf	-Inf	3	Horizontal	25	2.72
2440MHz	Pass	AV	2.4928G	38.47	54.00	-15.53	3	Horizontal	25	2.72
2440MHz	Pass	PK	2.3516G	58.31	74.00	-15.69	3	Horizontal	25	2.72
2440MHz	Pass	PK	2.4396G	109.06	Inf	-Inf	3	Horizontal	25	2.72
2440MHz	Pass	PK	2.4928G	58.47	74.00	-15.53	3	Horizontal	25	2.72
2440MHz	Pass	AV	4.88162G	24.93	54.00	-29.07	3	Vertical	12	2.57
2440MHz	Pass	PK	4.88162G	44.93	74.00	-29.07	3	Vertical	12	2.57
2440MHz	Pass	AV	4.88138G	24.64	54.00	-29.36	3	Horizontal	276	1.36
2440MHz	Pass	PK	4.88138G	44.64	74.00	-29.36	3	Horizontal	276	1.36
2480MHz	Pass	AV	2.4794G	84.12	Inf	-Inf	3	Vertical	334	1.07
2480MHz	Pass	AV	2.4835G	41.95	54.00	-12.05	3	Vertical	334	1.07
2480MHz	Pass	PK	2.4794G	104.12	Inf	-Inf	3	Vertical	334	1.07
2480MHz	Pass	PK	2.4835G	61.95	74.00	-12.05	3	Vertical	334	1.07
2480MHz	Pass	AV	2.4794G	86.97	Inf	-Inf	3	Horizontal	26	1.50
2480MHz	Pass	AV	2.4835G	44.33	54.00	-9.67	3	Horizontal	26	1.50
2480MHz	Pass	PK	2.4794G	106.97	Inf	-Inf	3	Horizontal	26	1.50
2480MHz	Pass	PK	2.4835G	64.33	74.00	-9.67	3	Horizontal	26	1.50
2480MHz	Pass	AV	4.96171G	25.04	54.00	-28.96	3	Vertical	179	2.11
2480MHz	Pass	PK	4.96171G	45.04	74.00	-28.96	3	Vertical	179	2.11
2480MHz	Pass	AV	4.95815G	25.17	54.00	-28.83	3	Horizontal	70	1.50
2480MHz	Pass	PK	4.95815G	45.17	74.00	-28.83	3	Horizontal	70	1.50

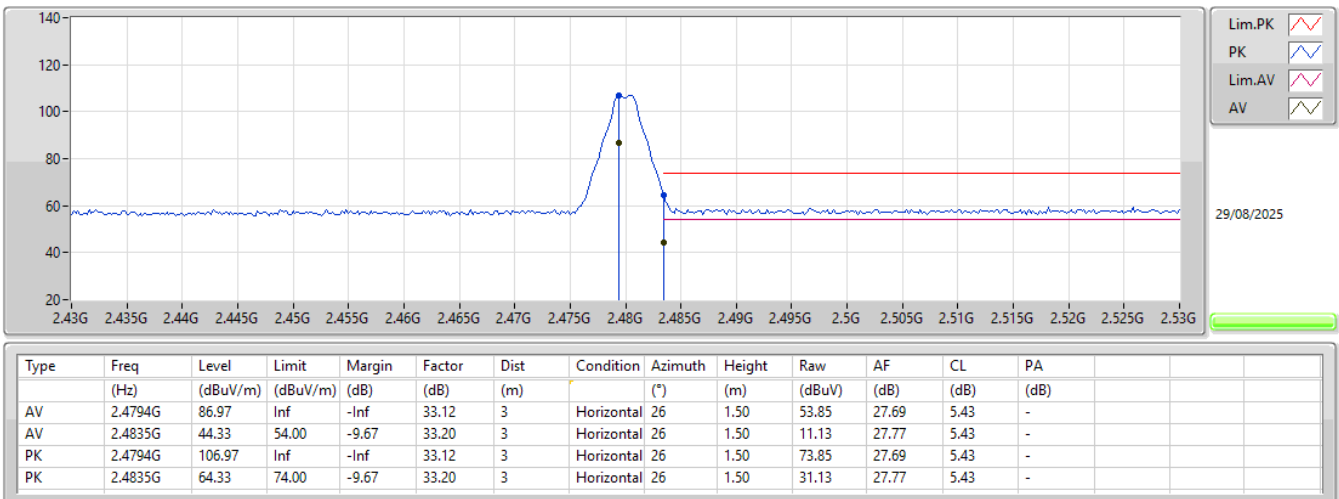
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2480MHz_TX



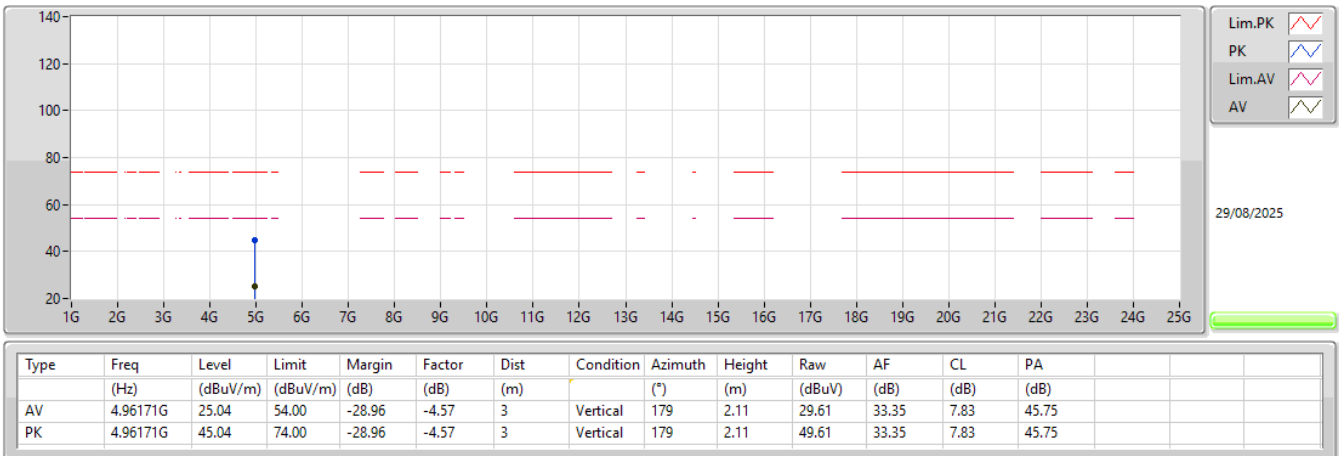
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2480MHz_TX



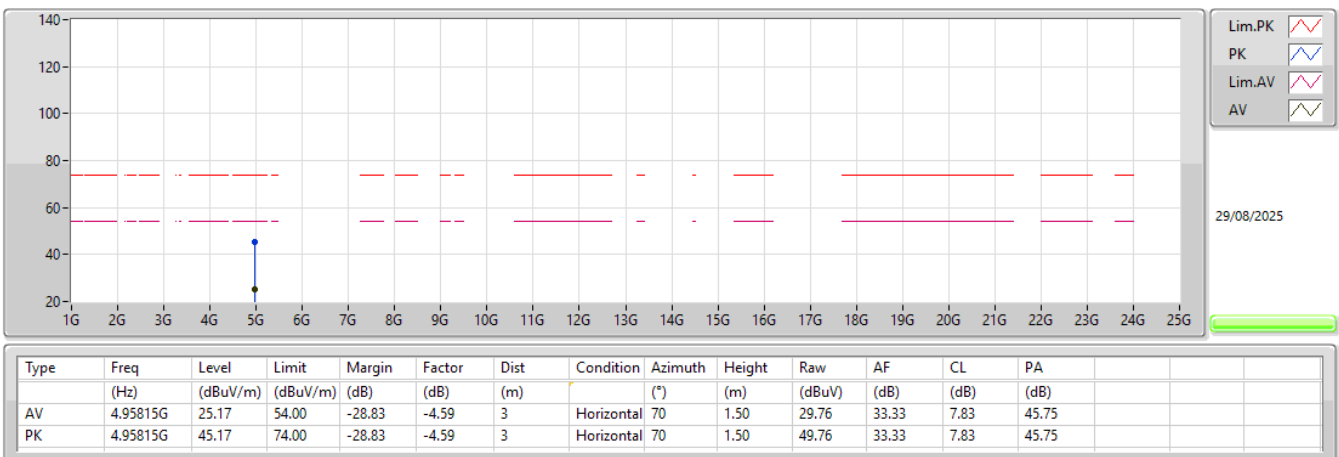
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2480MHz_TX



2.4-2.4835GHz_802.15.4

2480MHz_TX



Summary

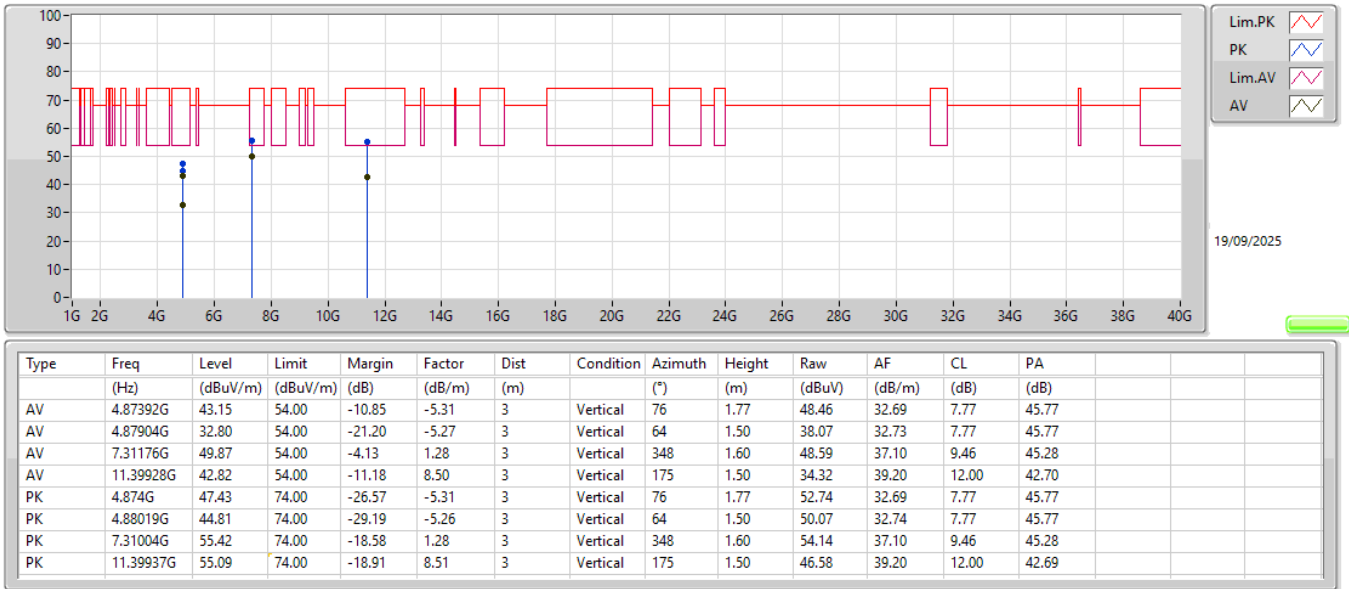
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	7.30972G	52.95	54.00	-1.05	Horizontal
Mode 2	Pass	AV	7.3102G	53.74	54.00	-0.26	Horizontal
Mode 3	Pass	AV	7.31172G	53.34	54.00	-0.66	Horizontal
Mode 4	Pass	AV	7.31022G	53.71	54.00	-0.29	Horizontal

Result

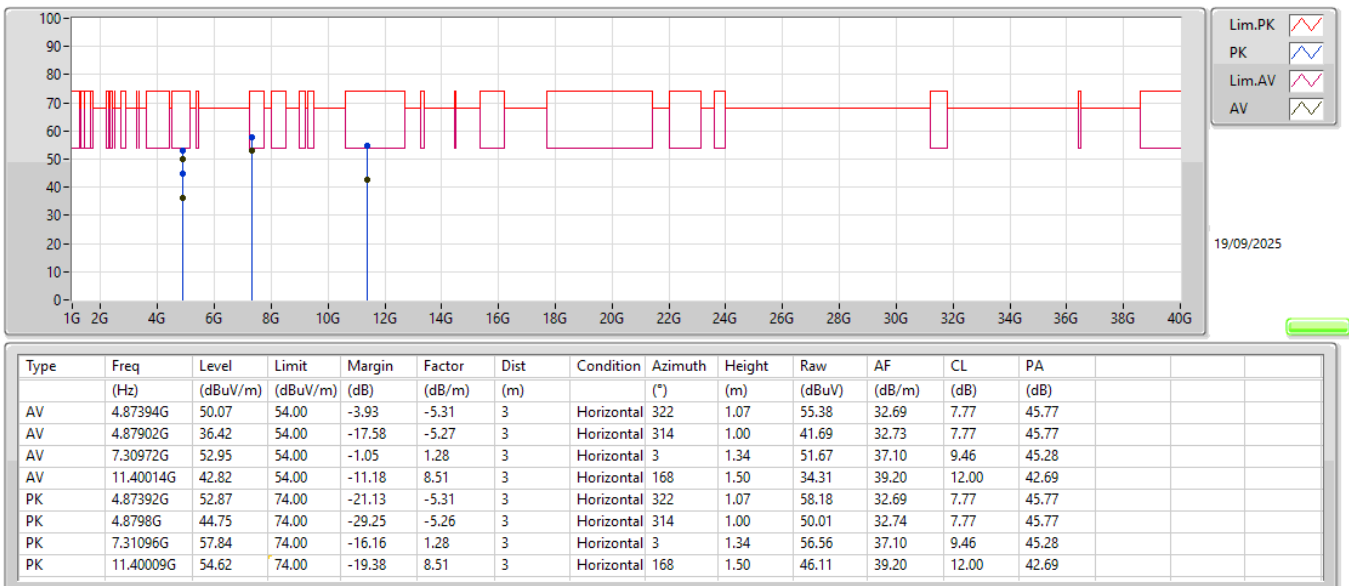
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	4.87392G	43.15	54.00	-10.85	3	Vertical	76	1.77
Mode 1	Pass	AV	4.87904G	32.80	54.00	-21.20	3	Vertical	64	1.50
Mode 1	Pass	AV	7.31176G	49.87	54.00	-4.13	3	Vertical	348	1.60
Mode 1	Pass	AV	11.39928G	42.82	54.00	-11.18	3	Vertical	175	1.50
Mode 1	Pass	PK	4.874G	47.43	74.00	-26.57	3	Vertical	76	1.77
Mode 1	Pass	PK	4.88019G	44.81	74.00	-29.19	3	Vertical	64	1.50
Mode 1	Pass	PK	7.31004G	55.42	74.00	-18.58	3	Vertical	348	1.60
Mode 1	Pass	PK	11.39937G	55.09	74.00	-18.91	3	Vertical	175	1.50
Mode 1	Pass	AV	4.87394G	50.07	54.00	-3.93	3	Horizontal	322	1.07
Mode 1	Pass	AV	4.87902G	36.42	54.00	-17.58	3	Horizontal	314	1.00
Mode 1	Pass	AV	7.30972G	52.95	54.00	-1.05	3	Horizontal	3	1.34
Mode 1	Pass	AV	11.40014G	42.82	54.00	-11.18	3	Horizontal	168	1.50
Mode 1	Pass	PK	4.87392G	52.87	74.00	-21.13	3	Horizontal	322	1.07
Mode 1	Pass	PK	4.8798G	44.75	74.00	-29.25	3	Horizontal	314	1.00
Mode 1	Pass	PK	7.31096G	57.84	74.00	-16.16	3	Horizontal	3	1.34
Mode 1	Pass	PK	11.40009G	54.62	74.00	-19.38	3	Horizontal	168	1.50
Mode 2	Pass	AV	4.87392G	44.34	54.00	-9.66	3	Vertical	330	1.10
Mode 2	Pass	AV	4.88035G	32.71	54.00	-21.29	3	Vertical	344	1.89
Mode 2	Pass	AV	7.31168G	52.98	54.00	-1.02	3	Vertical	349	1.22
Mode 2	Pass	AV	11.15212G	42.03	54.00	-11.97	3	Vertical	100	1.67
Mode 2	Pass	AV	11.4023G	42.73	54.00	-11.27	3	Vertical	34	1.59
Mode 2	Pass	PK	4.87416G	49.49	74.00	-24.51	3	Vertical	330	1.10
Mode 2	Pass	PK	4.8801G	45.77	74.00	-28.23	3	Vertical	344	1.89
Mode 2	Pass	PK	7.32068G	57.73	74.00	-16.27	3	Vertical	349	1.22
Mode 2	Pass	PK	11.1518G	53.42	74.00	-20.58	3	Vertical	100	1.67
Mode 2	Pass	PK	11.4027G	54.17	74.00	-19.83	3	Vertical	34	1.59
Mode 2	Pass	AV	4.87398G	48.98	54.00	-5.02	3	Horizontal	320	1.01
Mode 2	Pass	AV	4.87955G	32.90	54.00	-21.10	3	Horizontal	123	2.11
Mode 2	Pass	AV	7.3102G	53.74	54.00	-0.26	3	Horizontal	0	2.35
Mode 2	Pass	AV	11.15218G	41.93	54.00	-12.07	3	Horizontal	183	1.63
Mode 2	Pass	AV	11.39242G	42.82	54.00	-11.18	3	Horizontal	224	1.37
Mode 2	Pass	PK	4.87396G	52.28	74.00	-21.72	3	Horizontal	320	1.01
Mode 2	Pass	PK	4.87964G	45.77	74.00	-28.23	3	Horizontal	123	2.11
Mode 2	Pass	PK	7.31926G	62.63	74.00	-11.37	3	Horizontal	0	2.35
Mode 2	Pass	PK	11.15518G	53.70	74.00	-20.30	3	Horizontal	183	1.63
Mode 2	Pass	PK	11.39874G	54.78	74.00	-19.22	3	Horizontal	224	1.37
Mode 3	Pass	AV	4.87386G	44.27	54.00	-9.73	3	Vertical	325	1.43
Mode 3	Pass	AV	4.96458G	24.38	54.00	-29.62	3	Vertical	199	2.05
Mode 3	Pass	AV	7.31174G	52.60	54.00	-1.40	3	Vertical	348	1.23
Mode 3	Pass	AV	11.4016G	42.80	54.00	-11.20	3	Vertical	217	1.95
Mode 3	Pass	PK	4.87404G	48.25	74.00	-25.75	3	Vertical	325	1.43
Mode 3	Pass	PK	4.96458G	44.38	74.00	-29.62	3	Vertical	199	2.05
Mode 3	Pass	PK	7.31196G	57.28	74.00	-16.72	3	Vertical	348	1.23
Mode 3	Pass	PK	11.393G	54.05	74.00	-19.95	3	Vertical	217	1.95
Mode 3	Pass	AV	4.87396G	49.72	54.00	-4.28	3	Horizontal	315	1.00
Mode 3	Pass	AV	4.95896G	24.90	54.00	-29.10	3	Horizontal	138	1.77
Mode 3	Pass	AV	7.31172G	53.34	54.00	-0.66	3	Horizontal	0	2.25
Mode 3	Pass	AV	11.39956G	42.88	54.00	-11.12	3	Horizontal	12	1.53
Mode 3	Pass	PK	4.8739G	52.72	74.00	-21.28	3	Horizontal	315	1.00
Mode 3	Pass	PK	4.95896G	44.90	74.00	-29.10	3	Horizontal	138	1.77

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 3	Pass	PK	7.31066G	57.93	74.00	-16.07	3	Horizontal	0	2.25
Mode 3	Pass	PK	11.40188G	53.90	74.00	-20.10	3	Horizontal	12	1.53
Mode 4	Pass	AV	4.87404G	43.96	54.00	-10.04	3	Vertical	328	1.10
Mode 4	Pass	AV	4.95902G	30.17	54.00	-23.83	3	Vertical	52	1.00
Mode 4	Pass	AV	7.31176G	52.57	54.00	-1.43	3	Vertical	349	1.23
Mode 4	Pass	AV	11.15124G	41.99	54.00	-12.01	3	Vertical	166	2.25
Mode 4	Pass	AV	11.40126G	42.83	54.00	-11.17	3	Vertical	113	1.54
Mode 4	Pass	PK	4.8739G	48.35	74.00	-25.65	3	Vertical	328	1.10
Mode 4	Pass	PK	4.95902G	50.17	74.00	-23.83	3	Vertical	52	1.00
Mode 4	Pass	PK	7.3099G	57.09	74.00	-16.91	3	Vertical	349	1.23
Mode 4	Pass	PK	11.16096G	53.00	74.00	-21.00	3	Vertical	166	2.25
Mode 4	Pass	PK	11.39778G	54.69	74.00	-19.31	3	Vertical	113	1.54
Mode 4	Pass	AV	4.87392G	47.78	54.00	-6.22	3	Horizontal	321	1.13
Mode 4	Pass	AV	4.95892G	34.86	54.00	-19.14	3	Horizontal	319	1.50
Mode 4	Pass	AV	7.31022G	53.71	54.00	-0.29	3	Horizontal	6	2.58
Mode 4	Pass	AV	11.15624G	42.08	54.00	-11.92	3	Horizontal	237	1.44
Mode 4	Pass	AV	11.40446G	42.86	54.00	-11.14	3	Horizontal	158	1.83
Mode 4	Pass	PK	4.87386G	51.17	74.00	-22.83	3	Horizontal	321	1.13
Mode 4	Pass	PK	4.95892G	54.86	74.00	-19.14	3	Horizontal	319	1.50
Mode 4	Pass	PK	7.31144G	58.30	74.00	-15.70	3	Horizontal	6	2.58
Mode 4	Pass	PK	11.15212G	53.14	74.00	-20.86	3	Horizontal	237	1.44
Mode 4	Pass	PK	11.39556G	54.58	74.00	-19.42	3	Horizontal	158	1.83

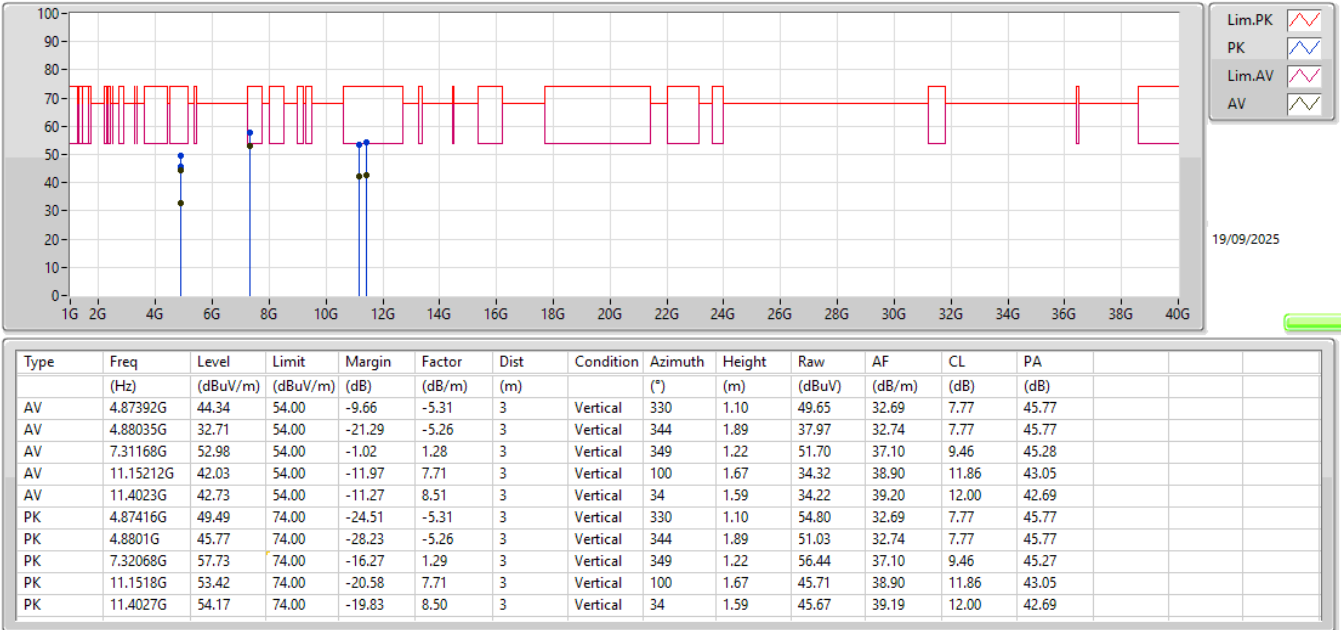
Radiated Emissions above 1GHz_Mode 1



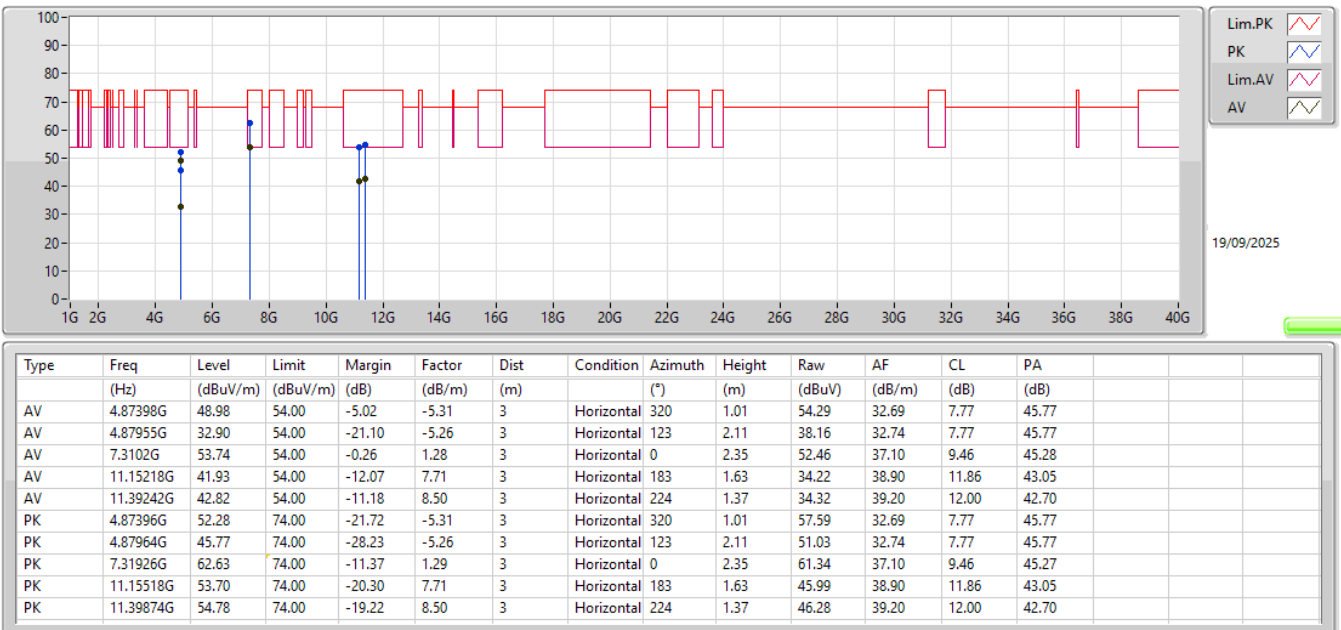
Radiated Emissions above 1GHz_Mode 1



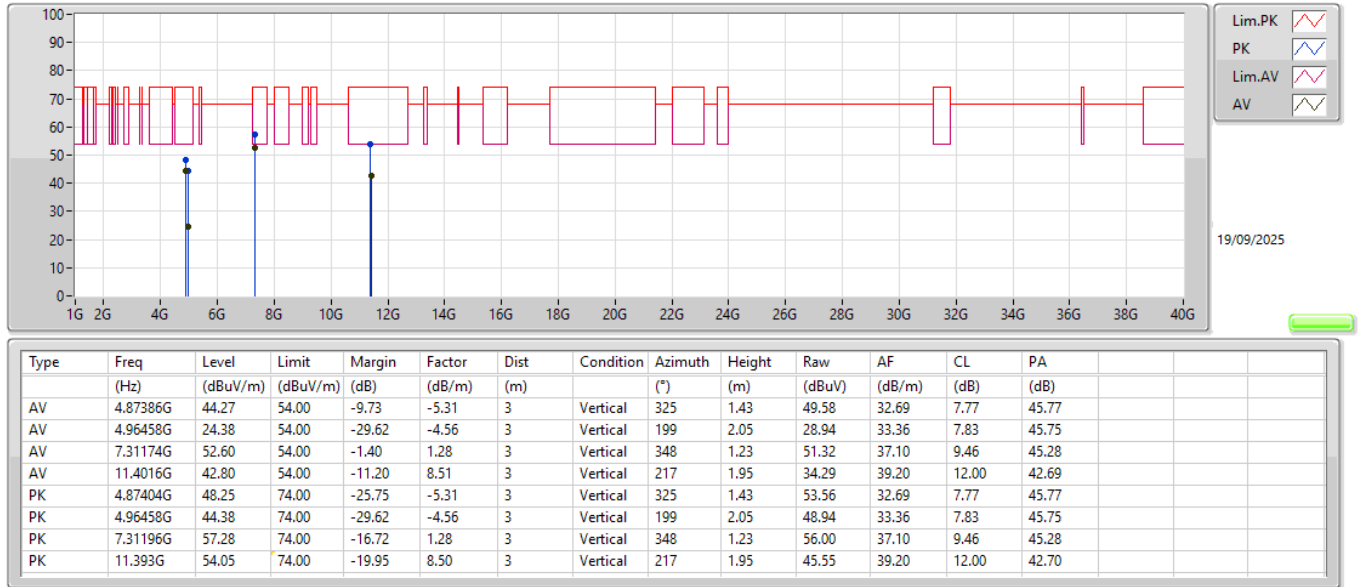
Radiated Emissions above 1GHz_Mode 2



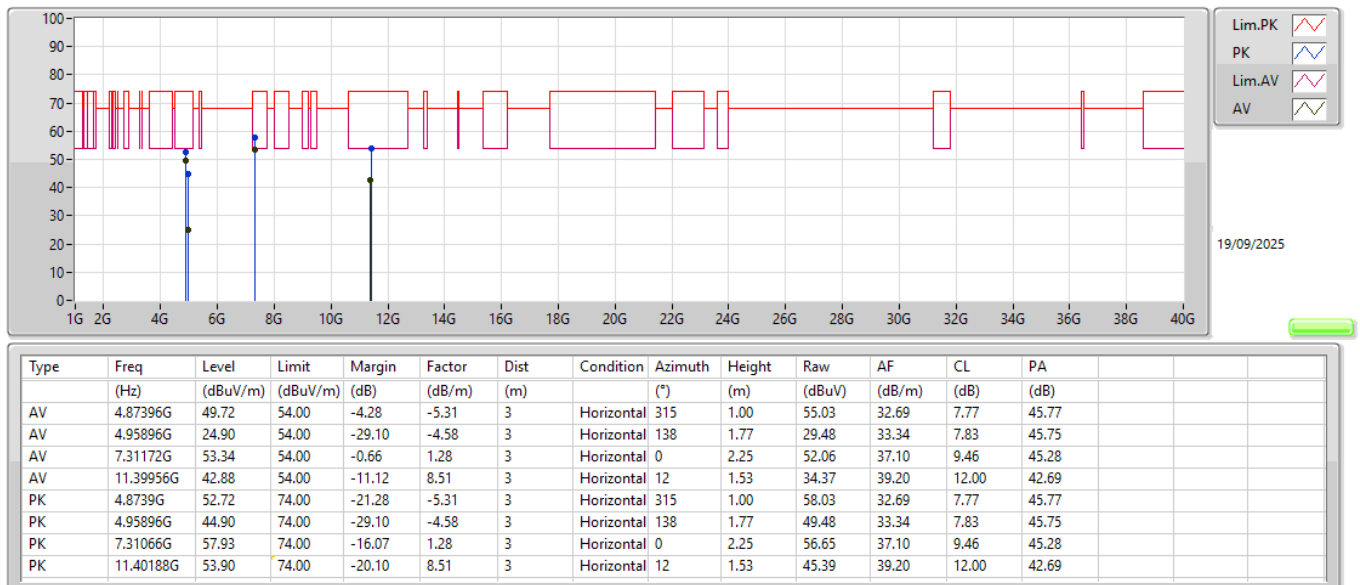
Radiated Emissions above 1GHz_Mode 2



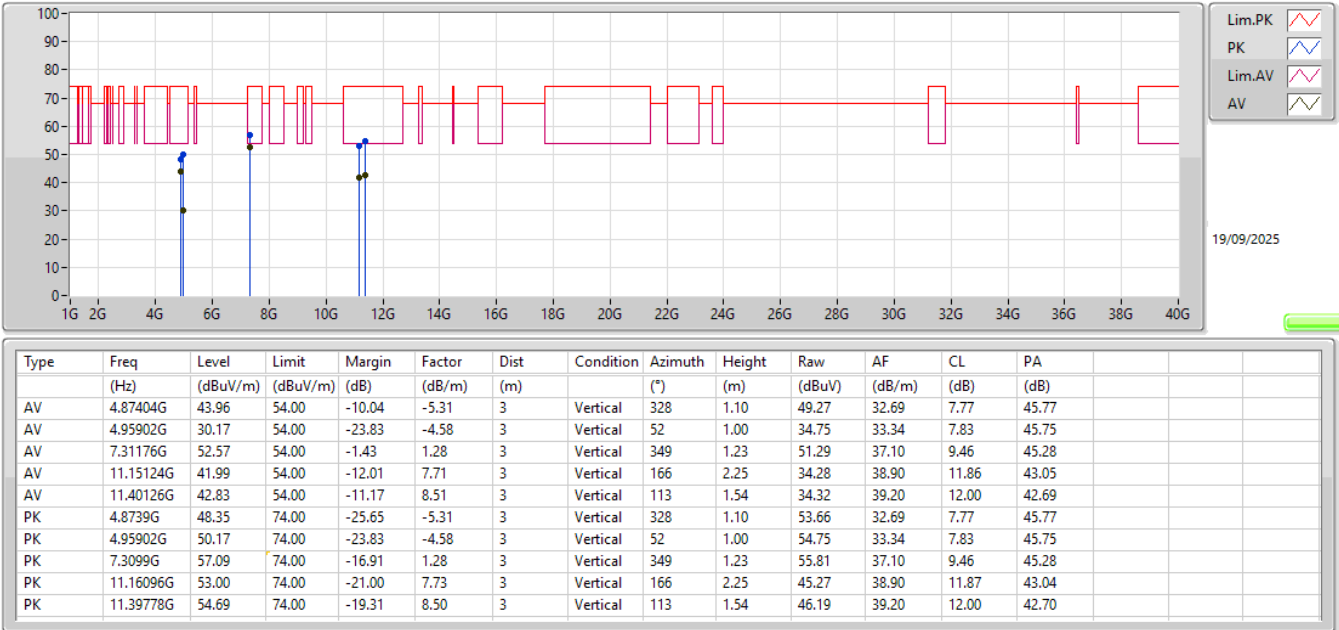
Radiated Emissions above 1GHz_Mode 3



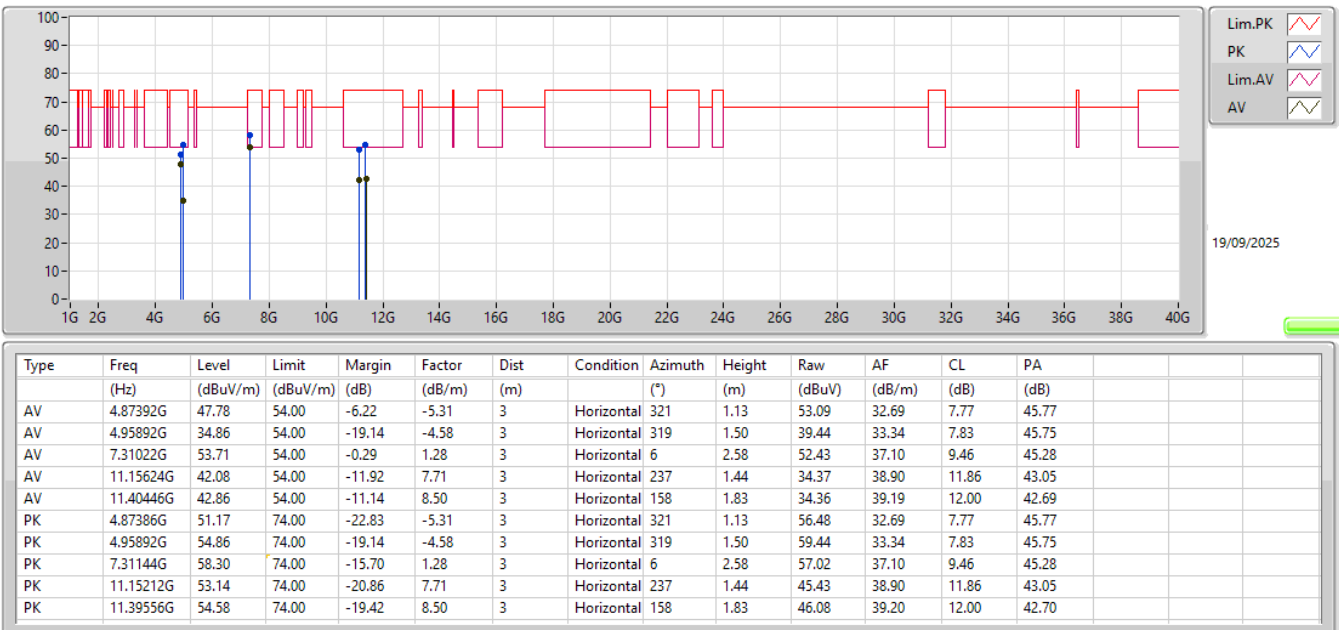
Radiated Emissions above 1GHz_Mode 3



Radiated Emissions above 1GHz_Mode 4



Radiated Emissions above 1GHz_Mode 4



Summary

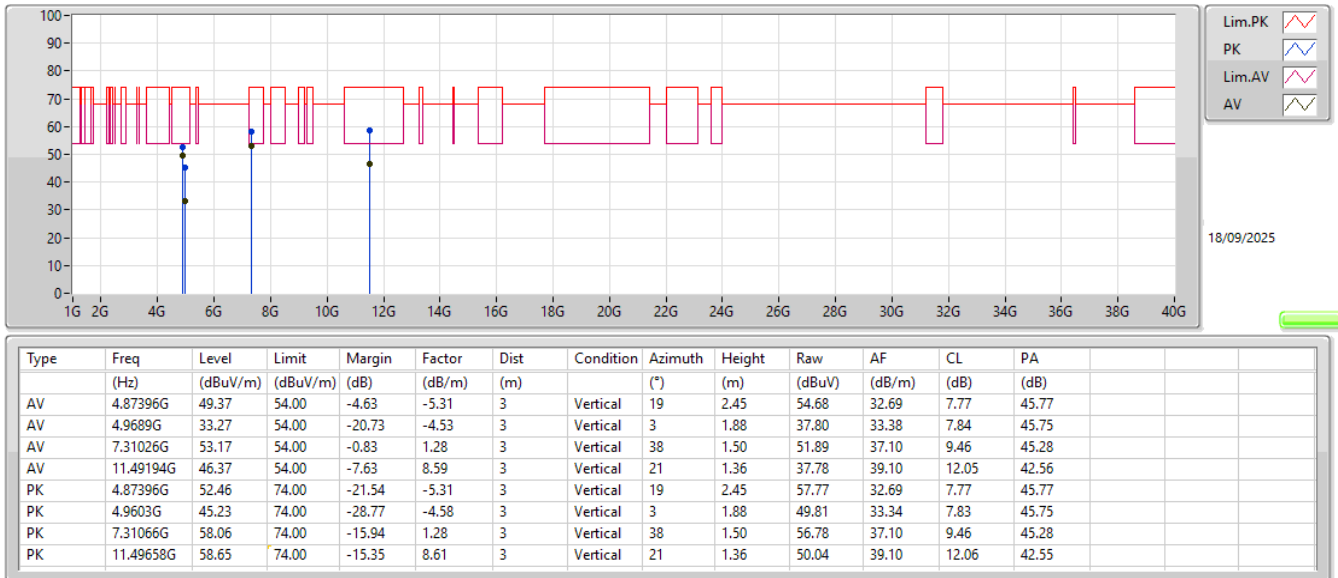
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	7.31026G	53.17	54.00	-0.83	Vertical
Mode 2	Pass	AV	7.31184G	53.60	54.00	-0.40	Vertical
Mode 3	Pass	AV	7.31186G	53.73	54.00	-0.27	Vertical
Mode 4	Pass	AV	11.49206G	44.90	54.00	-9.10	Vertical

Result

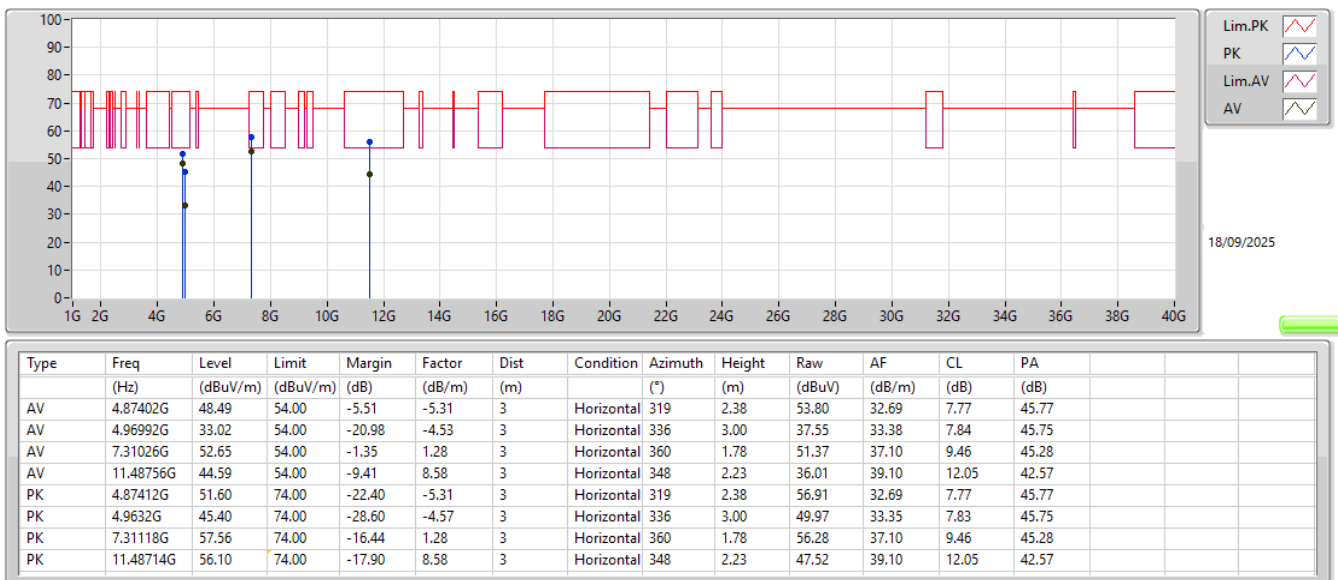
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	4.87396G	49.37	54.00	-4.63	3	Vertical	19	2.45
Mode 1	Pass	AV	4.9689G	33.27	54.00	-20.73	3	Vertical	3	1.88
Mode 1	Pass	AV	7.31026G	53.17	54.00	-0.83	3	Vertical	38	1.50
Mode 1	Pass	AV	11.49194G	46.37	54.00	-7.63	3	Vertical	21	1.36
Mode 1	Pass	PK	4.87396G	52.46	74.00	-21.54	3	Vertical	19	2.45
Mode 1	Pass	PK	4.9603G	45.23	74.00	-28.77	3	Vertical	3	1.88
Mode 1	Pass	PK	7.31066G	58.06	74.00	-15.94	3	Vertical	38	1.50
Mode 1	Pass	PK	11.49658G	58.65	74.00	-15.35	3	Vertical	21	1.36
Mode 1	Pass	AV	4.87402G	48.49	54.00	-5.51	3	Horizontal	319	2.38
Mode 1	Pass	AV	4.96992G	33.02	54.00	-20.98	3	Horizontal	336	3.00
Mode 1	Pass	AV	7.31026G	52.65	54.00	-1.35	3	Horizontal	360	1.78
Mode 1	Pass	AV	11.48756G	44.59	54.00	-9.41	3	Horizontal	348	2.23
Mode 1	Pass	PK	4.87412G	51.60	74.00	-22.40	3	Horizontal	319	2.38
Mode 1	Pass	PK	4.9632G	45.40	74.00	-28.60	3	Horizontal	336	3.00
Mode 1	Pass	PK	7.31118G	57.56	74.00	-16.44	3	Horizontal	360	1.78
Mode 1	Pass	PK	11.48714G	56.10	74.00	-17.90	3	Horizontal	348	2.23
Mode 2	Pass	AV	4.87406G	49.22	54.00	-4.78	3	Vertical	19	1.73
Mode 2	Pass	AV	4.9694G	33.23	54.00	-20.77	3	Vertical	350	2.86
Mode 2	Pass	AV	7.31184G	53.60	54.00	-0.40	3	Vertical	39	1.61
Mode 2	Pass	AV	11.49174G	46.20	54.00	-7.80	3	Vertical	21	1.50
Mode 2	Pass	PK	4.87396G	52.10	74.00	-21.90	3	Vertical	19	1.73
Mode 2	Pass	PK	4.9522G	45.12	74.00	-28.88	3	Vertical	350	2.86
Mode 2	Pass	PK	7.31198G	58.60	74.00	-15.40	3	Vertical	39	1.61
Mode 2	Pass	PK	11.49198G	57.93	74.00	-16.07	3	Vertical	21	1.50
Mode 2	Pass	AV	4.87398G	49.45	54.00	-4.55	3	Horizontal	316	2.39
Mode 2	Pass	AV	4.9626G	33.21	54.00	-20.79	3	Horizontal	323	1.50
Mode 2	Pass	AV	7.31018G	52.86	54.00	-1.14	3	Horizontal	354	1.62
Mode 2	Pass	AV	11.4924G	44.86	54.00	-9.14	3	Horizontal	333	1.39
Mode 2	Pass	PK	4.87404G	52.40	74.00	-21.60	3	Horizontal	316	2.39
Mode 2	Pass	PK	4.96804G	45.51	74.00	-28.49	3	Horizontal	323	1.50
Mode 2	Pass	PK	7.3107G	57.67	74.00	-16.33	3	Horizontal	354	1.62
Mode 2	Pass	PK	11.4878G	56.97	74.00	-17.03	3	Horizontal	333	1.39
Mode 3	Pass	AV	4.87396G	48.82	54.00	-5.18	3	Vertical	22	1.69
Mode 3	Pass	AV	4.97272G	25.49	54.00	-28.51	3	Vertical	2	1.50
Mode 3	Pass	AV	7.31186G	53.73	54.00	-0.27	3	Vertical	42	1.68
Mode 3	Pass	AV	11.48896G	44.94	54.00	-9.06	3	Vertical	351	1.25
Mode 3	Pass	PK	4.87388G	52.25	74.00	-21.75	3	Vertical	22	1.69
Mode 3	Pass	PK	4.97272G	45.49	74.00	-28.51	3	Vertical	2	1.50
Mode 3	Pass	PK	7.3119G	58.05	74.00	-15.95	3	Vertical	42	1.68
Mode 3	Pass	PK	11.48172G	56.96	74.00	-17.04	3	Vertical	351	1.25
Mode 3	Pass	AV	4.87402G	47.90	54.00	-6.10	3	Horizontal	324	2.38
Mode 3	Pass	AV	4.972G	26.26	54.00	-27.74	3	Horizontal	2	1.49
Mode 3	Pass	AV	7.31026G	52.92	54.00	-1.08	3	Horizontal	355	1.61
Mode 3	Pass	AV	11.48962G	44.35	54.00	-9.65	3	Horizontal	55	1.71
Mode 3	Pass	PK	4.87404G	51.85	74.00	-22.15	3	Horizontal	324	2.38
Mode 3	Pass	PK	4.96231G	46.26	74.00	-27.74	3	Horizontal	2	1.49
Mode 3	Pass	PK	7.31006G	57.72	74.00	-16.28	3	Horizontal	355	1.61
Mode 3	Pass	PK	11.48934G	56.44	74.00	-17.56	3	Horizontal	55	1.71
Mode 4	Pass	AV	4.87256G	37.84	54.00	-16.16	3	Vertical	23	1.71
Mode 4	Pass	AV	4.97488G	25.45	54.00	-28.55	3	Vertical	0	1.50

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 4	Pass	AV	7.30899G	44.81	54.00	-9.19	3	Vertical	340	1.68
Mode 4	Pass	AV	11.49206G	44.90	54.00	-9.10	3	Vertical	350	1.34
Mode 4	Pass	PK	4.87235G	49.56	74.00	-24.44	3	Vertical	23	1.71
Mode 4	Pass	PK	4.97488G	45.45	74.00	-28.55	3	Vertical	0	1.50
Mode 4	Pass	PK	7.31856G	58.36	74.00	-15.64	3	Vertical	340	1.68
Mode 4	Pass	PK	11.48732G	56.76	74.00	-17.24	3	Vertical	350	1.34
Mode 4	Pass	AV	4.87226G	38.92	54.00	-15.08	3	Horizontal	320	2.46
Mode 4	Pass	AV	4.97137G	25.74	54.00	-28.26	3	Horizontal	360	1.50
Mode 4	Pass	AV	7.30758G	44.38	54.00	-9.62	3	Horizontal	341	2.37
Mode 4	Pass	AV	11.49038G	44.28	54.00	-9.72	3	Horizontal	52	1.65
Mode 4	Pass	PK	4.87229G	49.92	74.00	-24.08	3	Horizontal	320	2.46
Mode 4	Pass	PK	4.97137G	45.74	74.00	-28.26	3	Horizontal	360	1.50
Mode 4	Pass	PK	7.31286G	56.61	74.00	-17.39	3	Horizontal	341	2.37
Mode 4	Pass	PK	11.48326G	57.03	74.00	-16.97	3	Horizontal	52	1.65

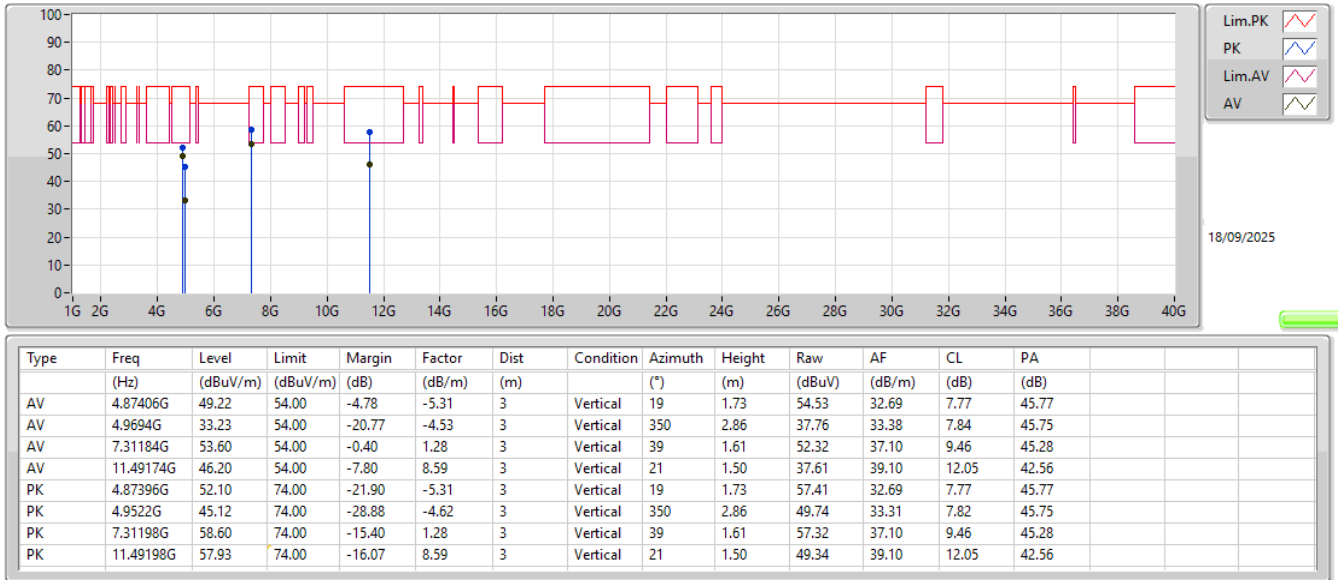
Radiated Emissions above 1GHz_Mode 1



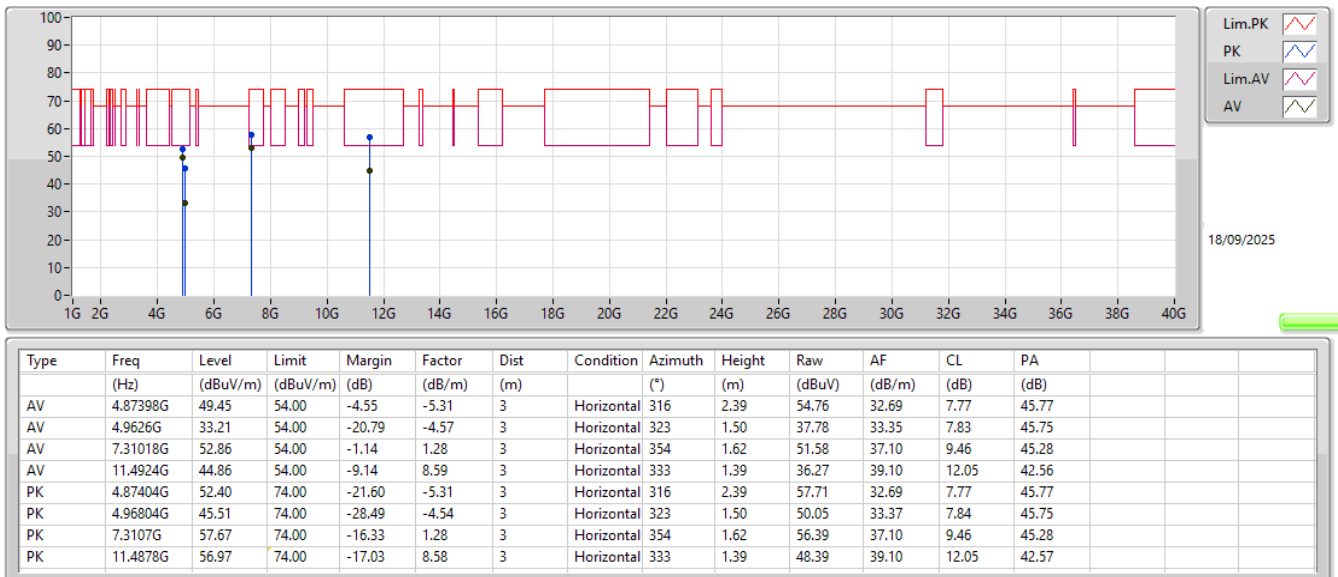
Radiated Emissions above 1GHz_Mode 1



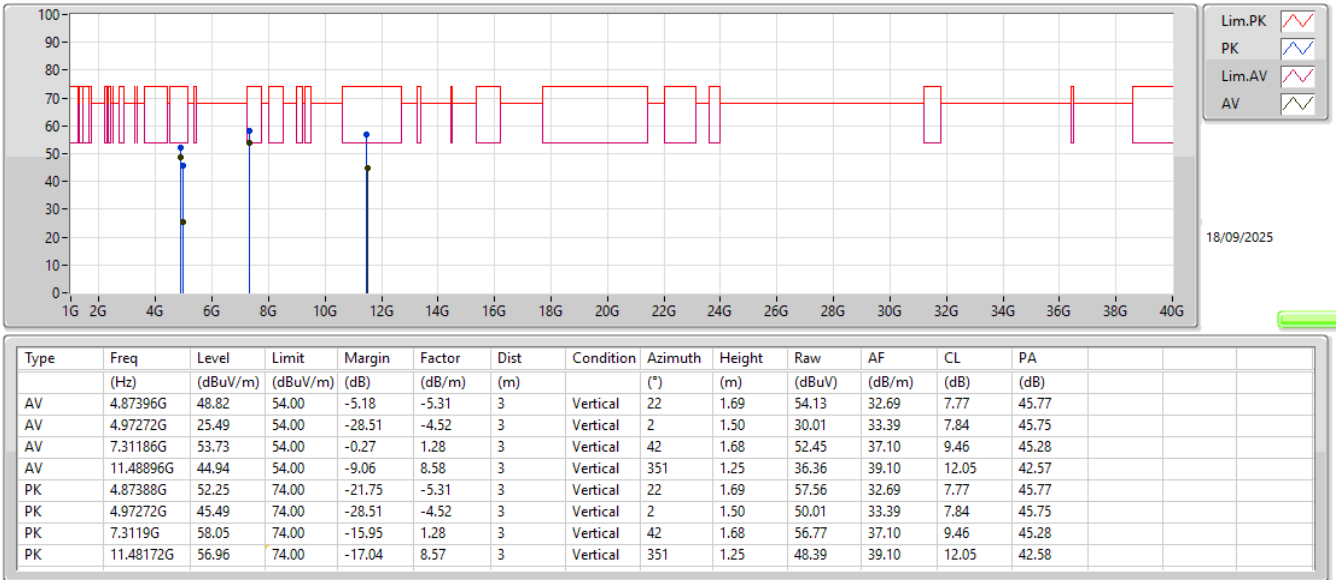
Radiated Emissions above 1GHz_Mode 2



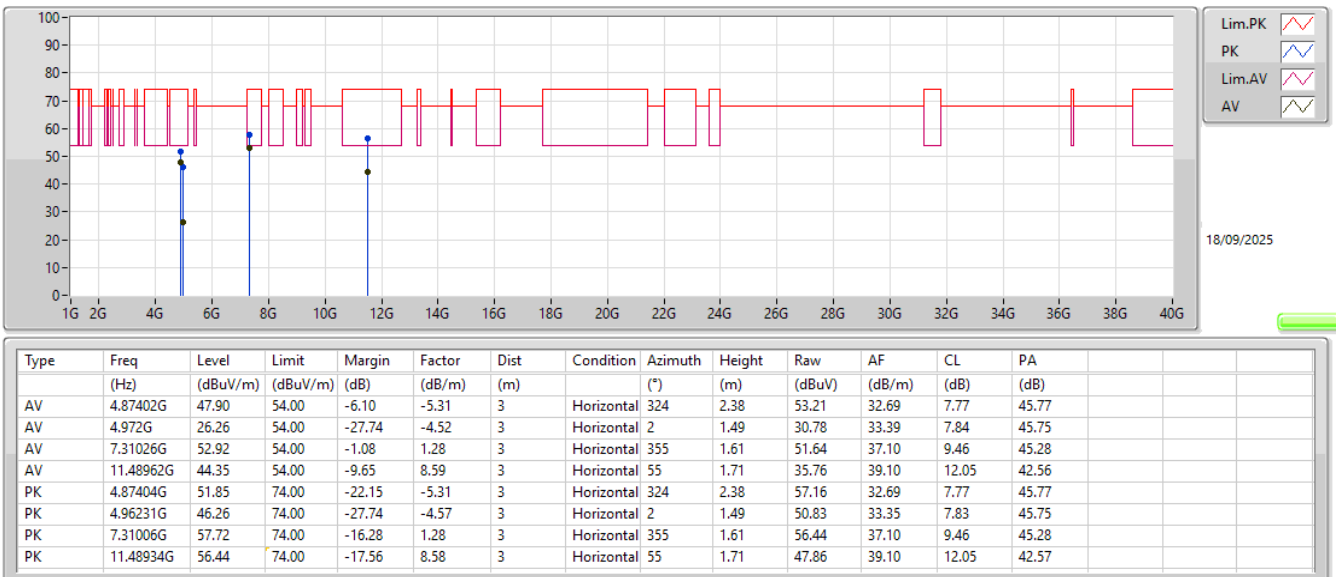
Radiated Emissions above 1GHz_Mode 2



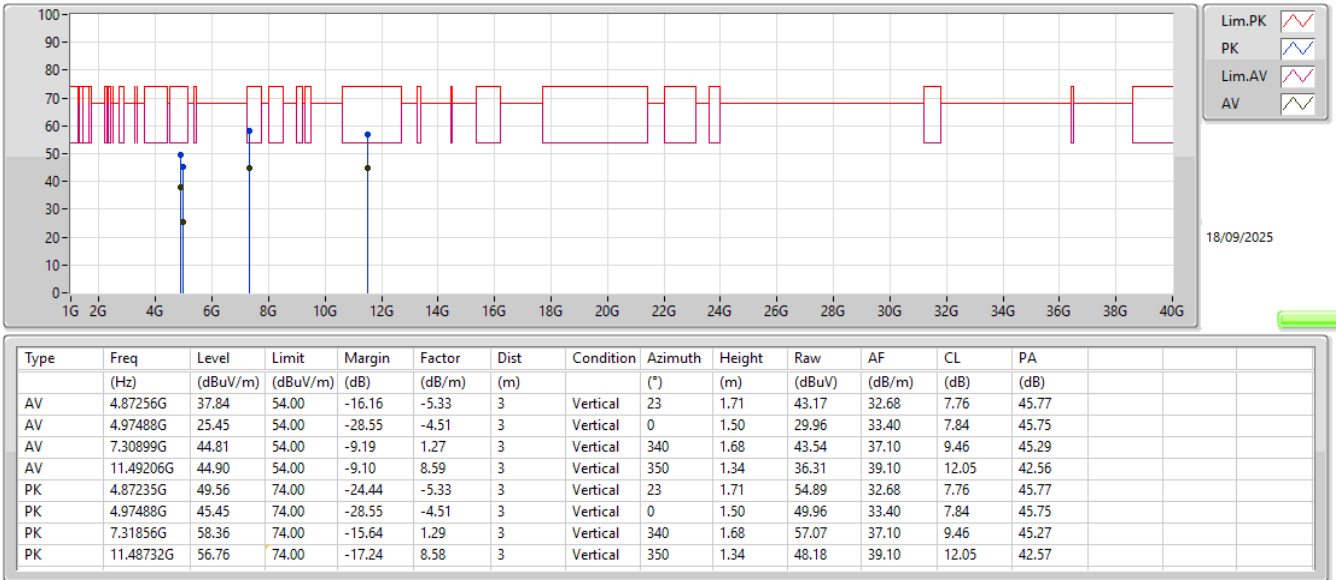
Radiated Emissions above 1GHz_Mode 3



Radiated Emissions above 1GHz_Mode 3



Radiated Emissions above 1GHz_Mode 4



Radiated Emissions above 1GHz_Mode 4

