



FCC Test Report

FCC ID : QXO-AP5022
Equipment : Access Point
Brand Name : Extreme Networks
Model Name : AP5022S6D
Applicant : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North Carolina
United States 27560
Manufacturer : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North Carolina
United States 27560
Standard : 47 CFR FCC Part 15.517

The product was received on Oct. 15, 2025, and testing was started from Nov. 20, 2025 and completed on Feb. 24, 2026. 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 + Errata to 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

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



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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	-
1.1.5	15.517(a)	Operational Restriction	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.503 (d) /15.517(b)	UWB Bandwidth	PASS	-
3.3	15.517(e)	Peak Emissions within a 50 MHz Bandwidth	PASS	-
3.4	15.517(c) /15.517(d)	Radiated Emissions	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:

According to FCC §15.521(c), emission from digital circuitry used to enable the operation of the UWB transmitter shall comply with the limits in § 15.209. Limit for given spurs at 963.28 MHz / 963.69 MHz / 973.52 MHz / 978.85 MHz / 999.75 MHz / 1.02474 GHz / 1.04031 GHz / 1.04195 GHz / 1.04236 GHz / 1.04933 GHz / 1.05916 GHz / 1.13537 GHz are 500uV/m, which is 53.98dBuV/m. Relative to this limit the spurs are PASS.

Reviewed by: Sam Tsai

Report Producer: Amber Chiu



1 General Description

1.1 Information

1.1.1 RF General Information

RF General Information					
Frequency Range (GHz)	Mode	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	EIRP (dBm/50MHz)
3.1-10.6	UWB	7987.2	9	1	-0.18
Note 1: TransferJet uses Pi/2 shift BPSK + DSSS modulation.					

Band	Mode	BWch (MHz)	Nant
3.1-10.6 GHz	Ultra Wide Band	499.2	1TX

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Support	Radio	Remark
1	1	WNC	95XPAM15.G71	Dipole	I-Pex	2.4G + 5G Full & High	Radio 1+Radio 2	-
2	2	WNC	95XPAM15.G72	Dipole	I-Pex	2.4G + 5G Full & High	Radio 1+Radio 2	-
3	3	WNC	95XPAM15.G73	Dipole	I-Pex	2.4G + 5G Full & High	Radio 1+Radio 2	-
4	4	WNC	95XPAM15.G74	Dipole	I-Pex	2.4G + 5G Full & High	Radio 1+Radio 2	-
5	1	WNC	95XPAM15.G67	Dipole	I-Pex	5G Low & 6G High	Radio 1	-
6	2	WNC	95XPAM15.G68	Dipole	I-Pex	5G Low & 6G High	Radio 1	-
7	3	WNC	95XPAM15.G69	Dipole	I-Pex	5G Low & 6G High	Radio 1	-
8	4	WNC	95XPAM15.G70	Dipole	I-Pex	5G Low & 6G High	Radio 1	-
9	1	WNC	95XPAM15.G63	Dipole	I-Pex	6G Full & 6G Low	Radio 3	-
10	2	WNC	95XPAM15.G64	Dipole	I-Pex	6G Full & 6G Low	Radio 3	-
11	3	WNC	95XPAM15.G65	Dipole	I-Pex	6G Full & 6G Low	Radio 3	-
12	4	WNC	95XPAM15.G66	Dipole	I-Pex	6G Full & 6G Low	Radio 3	-
13	1	WNC	95XPAM15.G56	PIFA	I-Pex	Scan 2.4G & 5G & 6G	Radio 4	-
14	2	WNC	95XPAM15.G57	PIFA	I-Pex	Scan 2.4G & 5G & 6G	Radio 4	-
15	1	WNC	95XPAM15.G53	PIFA	I-Pex	BT+802.15.4	Radio 5	-
16	2	WNC	95XPAM15.G54	PIFA	I-Pex	BT+802.15.4	Radio 5	-
17	3	WNC	95XPAM15.GAM	Alford loop	I-Pex	BT+802.15.4	Radio 5	-
18	1	WNC	95XPAM15.G81	PIFA	I-Pex	UWB	Radio 6	-
19	2	WNC	95XPAM15.G82	Alford loop	I-Pex	UWB	Radio 6	-
20	3	WNC	95XPAM15.G82	Alford loop	I-Pex	UWB	Radio 6	-
21	4	WNC	95XPAM15.G82	Alford loop	I-Pex	UWB	Radio 6	-



Ant.	Port	Gain (dBi)											
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	BT	802.15.4	UWB
1	1	3.48	5.09	5.65	6.38	6.56	-	-	-	-	-	-	-
2	2	3.43	6.93	6.99	6.9	6.61	-	-	-	-	-	-	-
3	3	3.19	5.9	5.8	5.86	6.22	-	-	-	-	-	-	-
4	4	2.41	5.56	5.58	6.18	5.77	-	-	-	-	-	-	-
5	1	-	5.51	5.62	-	-	-	-	5.41	6.49	-	-	-
6	2	-	6.56	6.65	-	-	-	-	4.21	5.33	-	-	-
7	3	-	6.43	6.5	-	-	-	-	5.91	5.95	-	-	-
8	4	-	6	6.12	-	-	-	-	5.63	6.41	-	-	-
9	1	-	-	-	-	-	6.7	5.64	6.35	6.58	-	-	-
10	2	-	-	-	-	-	6.99	5.53	6.26	6.38	-	-	-
11	3	-	-	-	-	-	6.41	7.24	6.45	7.03	-	-	-
12	4	-	-	-	-	-	6.38	5.25	6	6.43	-	-	-
13	1	2.07	4.08	3.46	4.66	2.69	2.95	3.49	4.74	4.29	-	-	-
14	2	3.3	3.15	2.77	3.76	4.06	5.79	4.03	4.21	4.36	-	-	-
15	1	-	-	-	-	-	-	-	-	-	4.8	4.8	-
16	2	-	-	-	-	-	-	-	-	-	4.2	4.2	-
17	3	-	-	-	-	-	-	-	-	-	2.8	2.8	-
18	1	-	-	-	-	-	-	-	-	-	-	-	5.6
19	2	-	-	-	-	-	-	-	-	-	-	-	5
20	3	-	-	-	-	-	-	-	-	-	-	-	4.6
21	4	-	-	-	-	-	-	-	-	-	-	-	3.9

Ant.		Composite Gain (dBi) for 4TX								
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8
1~4	DG [1SS]	5.85	9.55	9.18	8.75	8.69	-	-	-	-
	DG [2SS]	3.48	6.93	6.99	6.9	6.61	-	-	-	-
	DG [4SS]	3.48	6.93	6.99	6.9	6.61	-	-	-	-
5~8	DG [1SS]	-	8.96	8.98	-	-	-	-	8.42	9.14
	DG [2SS]	-	6.56	6.65	-	-	-	-	5.91	6.49
	DG [4SS]	-	6.56	6.65	-	-	-	-	5.91	6.49
9~12	DG [1SS]	-	-	-	-	-	10.89	10.01	9.83	10.12
	DG [2SS]	-	-	-	-	-	7.89	7.24	6.83	7.12
	DG [4SS]	-	-	-	-	-	6.99	7.24	6.45	7.03

Ant.		Composite Gain (dBi) for 2TX								
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8
1~2	DG [1SS]	6.06	8.81	9	9.12	8.93	-	-	-	-
	DG [2SS]	3.48	6.93	6.99	6.9	6.61	-	-	-	-
5~6	DG [1SS]	-	9.03	8.77	-	-	-	-	7.43	8.85
	DG [2SS]	-	6.56	6.65	-	-	-	-	5.41	6.49
9~10	DG [1SS]	-	-	-	-	-	9.61	8.6	8.69	9.18
	DG [2SS]	-	-	-	-	-	6.99	5.64	6.35	6.58
13~14	DG [1SS]	4.58	5.83	5.95	5.83	4.58	5.79	4.82	4.86	4.41
	DG [2SS]	3.3	4.08	3.46	4.66	4.06	5.79	4.03	4.74	4.36

Note 1: The EUT has Twenty-one antennas.

Note 2: 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 AP5O0964C.

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax/be mode (1TX/4RX) (Radio 1)

Ant. 1 could transmit/receive.

For IEEE 802.11 b/g/n/VHT/ax/be mode (2TX/4RX) (Radio 1)

Ant. 1~2 could transmit/receive simultaneously.

For IEEE 802.11 b/g/n/VHT/ax/be mode (4TX/4RX) (Radio 1)

Ant. 1~4 could transmit/receive simultaneously.

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

Ant. 13~14 could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax/be mode (1TX/4RX) (Radio 1_Low Band)

Ant. 5 could transmit/receive.

For IEEE 802.11 a/n/ac/ax/be mode (2TX/4RX) (Radio 1_Low Band)

Ant. 5~6 could transmit/receive simultaneously.

For IEEE 802.11 a/n/ac/ax/be mode (4TX/4RX) (Radio 1_Low Band)

Ant. 5~8 could transmit/receive simultaneously.

For IEEE 802.11 a/n/ac/ax/be mode (1TX/4RX) (Radio 2)

Ant. 1 could transmit/receive.

For IEEE 802.11 a/n/ac/ax/be mode (2TX/4RX) (Radio 2)

Ant. 1~2 could transmit/receive simultaneously.

For IEEE 802.11 a/n/ac/ax/be mode (4TX/4RX) (Radio 2)

Ant. 1~4 could transmit/receive simultaneously.

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

Ant. 13~14 could transmit/receive simultaneously.

For 6GHz function:

For IEEE 802.11 ax/be mode (1TX/4RX) (Radio 1)

Ant. 5 could transmit/receive.

For IEEE 802.11 ax/be mode (2TX/4RX) (Radio 1)

Ant. 5~6 could transmit/receive simultaneously.

For IEEE 802.11 ax/be mode (4TX/4RX) (Radio 1)

Ant. 5~8 could transmit/receive simultaneously.

For IEEE 802.11 ax/be mode (1TX/4RX) (Radio 3)

Ant. 9 could transmit/receive.

For IEEE 802.11 ax/be mode (2TX/4RX) (Radio 3)

Ant. 9~10 could transmit/receive simultaneously.

For IEEE 802.11 ax/be mode (4TX/4RX) (Radio 3)

Ant. 9~12 could transmit/receive simultaneously.

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

Ant. 13~14 could transmit/receive simultaneously.

For BT function:

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

Ant. 15 or Ant.16 or Ant 17 could transmit/receive.

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

For 802.15.4 function:

For IEEE 802.15.4 mode (1TX/1RX)

Ant. 15 or Ant.16 or Ant 17 could transmit/receive.

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

For UWB function(2TX/4RX):

Ant. 18 and Ant 20 could transmit.

Ant. 18~21 could receive.

1.1.3 Type of EUT

Operational Condition	
EUT Power Type	From AC Adapter / PoE
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 Test Signal Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
Ultra Wide Band_Nss1,(HRP)_1TX(Port1)	0.159	7.98	318.75u	5k
Ultra Wide Band_Nss1,(HRP)_1TX(Port2)	0.159	7.98	318.75u	5k

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

1.1.5 Operational Restriction

Operation Restriction	Informed the applicant	Not applicable	User Manual Informed	Passed
☒ Indoor UWB devices & Fixed indoor infrastructure				
Must be capable of operation only indoors. The necessity to operate with a fixed indoor infrastructure. [A transmitter that had been connected to the AC power lines and operates solely through the AC mains. Or The device under test operates solely through USB port of a PC. It is not intended to operate from any other power source and be considered sufficient to demonstrate a fixed indoor infrastructure]	☒	☐	☐	☒
☒ Emissions from equipment				
The emissions from equipment operated shall not be intentionally directed outside of the building in which the equipment is located, such as through a window or a doorway, to perform an outside function, such as the detection of persons about to enter a building. [The applicant has been informed of this requirement.]	☒	☐	☐	☒
☒ Outdoor mounted antennas				
The use of outdoor mounted antennas, e.g., antennas mounted on the outside of a building or on a telephone pole, or any other outdoors infrastructure is prohibited. [The applicant has been informed without any outdoor mounted antennas.]	☒	☐	☐	☒
☒ Field disturbance sensors install				
Field disturbance sensors installed inside of metal or underground storage tanks are considered to operate indoors provided the emissions are directed towards the ground. [Not applicable for this client.]	☐	☒	☐	☒
☒ A communications system shall transmit only				
A communications system shall transmit only when the intentional radiator is sending information to an associated receiver. [The applicant has been informed of this requirement and is clearly stated on the user manual.]	☒	☐	☒	☐

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 + Errata to C63.10a-2024

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

- ♦ KDB 393764 D01 v02
- ♦ KDB 412172 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	23.1~23.9°C / 56~62%	13/Feb/2026~24/Feb/2026
Radiated	03CH02-HY	Vasari Huang	22.2~23.4°C / 50~52%	20/Nov/2025~26/Nov/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.				

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%
UWB Bandwidth	0.05 MHz	Confidence levels of 95%
Unwanted Emissions (9 kHz ~ 30 MHz)	2.9 dB	Confidence levels of 95%
Unwanted Emissions (30 MHz ~ 1 GHz)	5.64 dB	Confidence levels of 95%
Unwanted Emissions (1 GHz ~ 18 GHz)	5.02 dB	Confidence levels of 95%
Unwanted Emissions (18 GHz ~ 40 GHz)	5.28 dB	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V

2.2 The Worst Case Configuration

Worst Modulation Used for Conformance Testing			
Mode	Transmit Chains (N _{TX})	Data Rate	Test Channel Frequencies (MHz)
UWB	1	499.2Mbps	7987.2

2.3 The Worse Case Power Setting Parameter

Test Software Version	Tera Term Version 4.76
-----------------------	------------------------

Mode	Power Setting
Ultra Wide Band_Nss1,(HRP)_1TX(Port1)	-
7987.2MHz	68
Ultra Wide Band_Nss1,(HRP)_1TX(Port2)	
7987.2MHz	67

2.4 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
Operating Mode	CTX
1	PoE mode; UWB TX (Port 1)
2	Adapter mode; UWB TX (Port 1)
3	PoE mode; UWB TX (Port 2)
4	Adapter mode; UWB TX (Port 2)

The Worst Case Mode for Following Conformance Tests			
Tests Item	UWB Bandwidth, Peak Emissions within a 50 MHz Bandwidth, Radiated Emissions		
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	CTX		
1	PoE mode		
2	Adapter mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V

2.5 Accessories

Accessories				
Bracket	Brand Name	Extreme	Model Name	AH-ACC-BKT-TB

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

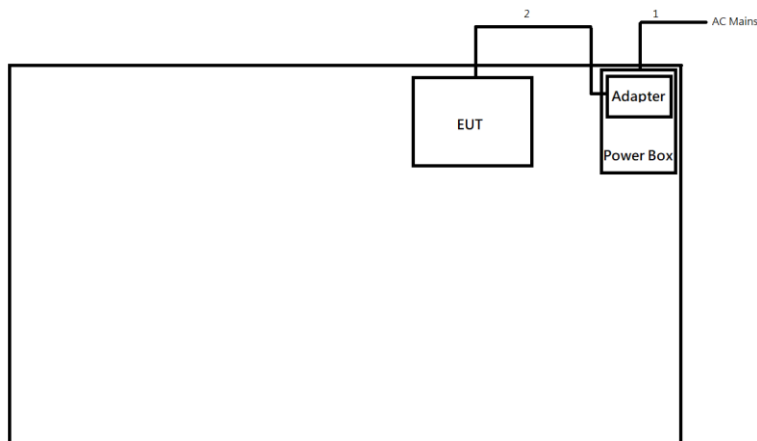
2.6 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	PoE	Microsemi	PD-9501-10GC/AC	-	Provided by Customer
2	RJ-45 Cable	Power sync	CAT-6E-03	-	-
3	AC power cable	Power sync	PW-GPC180-3	-	-
4	Adapter	Powertron	PA1045-120HIB300	-	Provided by Customer

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ-45 Cable	Power sync	CAT-6E-03	-	-
2	Adapter	Powertron	PA1045-120HIB300	-	Provided by Customer
3	PoE (Remote)	Microsemi Corp.	PD-9501-10GC/AC	-	Provided by Customer
4	AC power cable (Remote)	Power sync	PW-GPC180-3	-	-

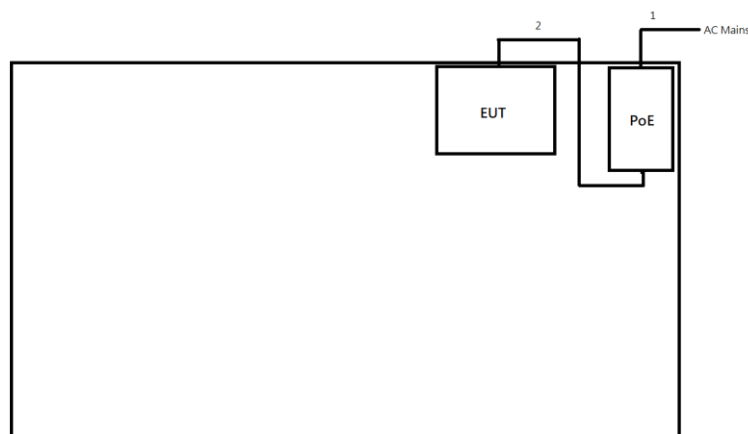
2.7 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test Adapter mode

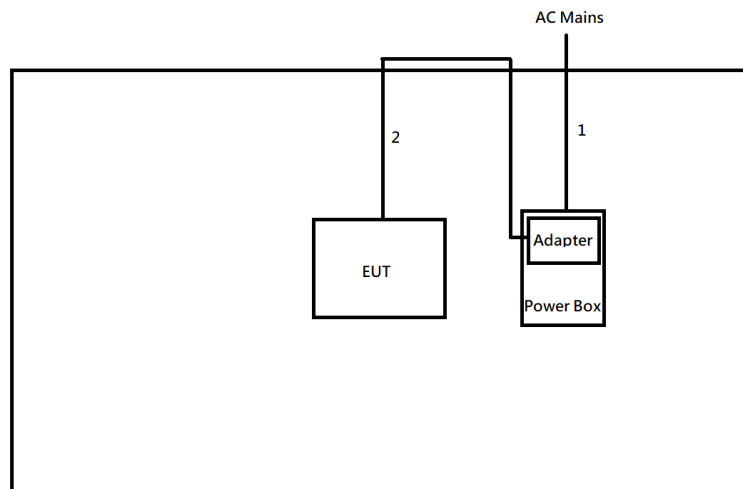


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.0	-
2	DC Power Cable	No	1.5	-

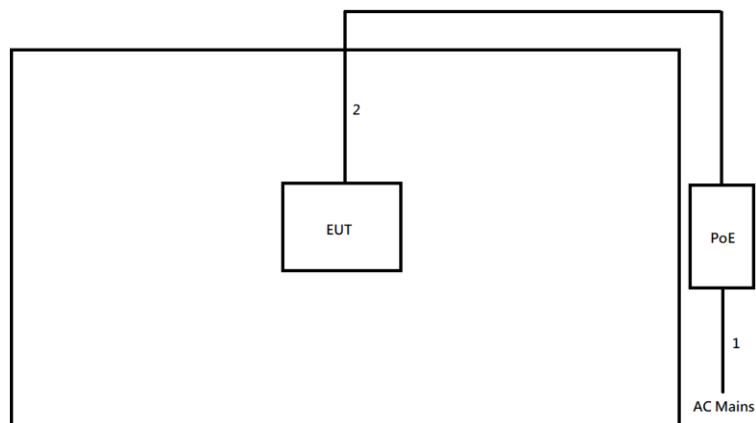
Test Setup Diagram – AC Line Conducted Emission Test PoE mode



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	RJ-45 Cable	No	3.0	-

Test Setup Diagram - Radiated Test_Adapter mode


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-

Test Setup Diagram - Radiated Test_PoE mode


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	RJ-45 Cable	No	3.0	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

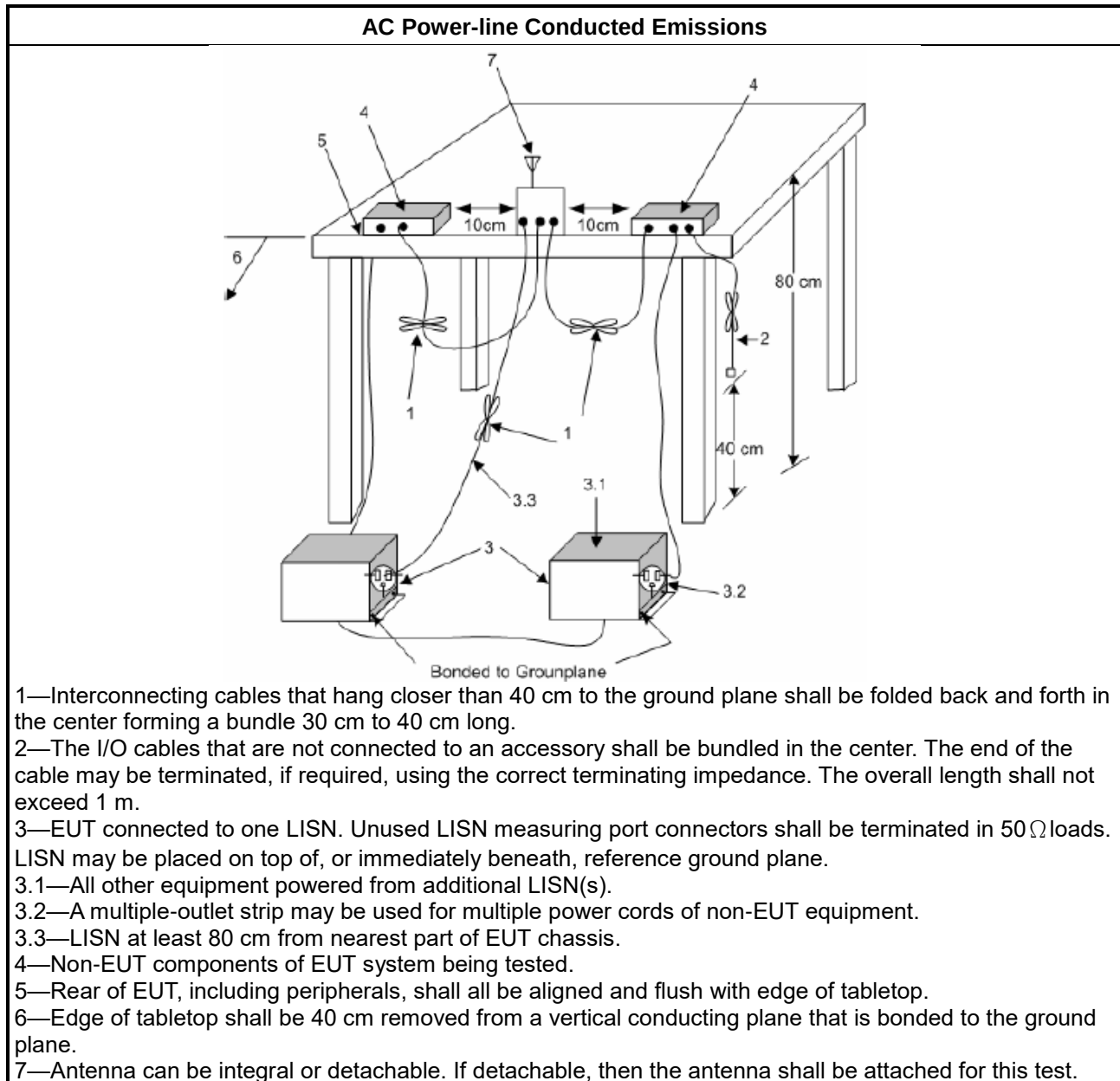
Test Method
☒ Refer as ANSI C63.10, clause 6.2 for AC power-line conducted emissions.

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 UWB bandwidth

3.2.1 UWB bandwidth Limit

UWB bandwidth Limit	
☒	UWB bandwidth ≥ 500 MHz or Fractional bandwidth ≥ 0.2 ; Fractional bandwidth = $2(f_H - f_L) / (f_H + f_L)$
☒	The UWB bandwidth of a UWB system operating under the provisions of this section must be contained between 3100 MHz and 10,600 MHz.

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 UWB bandwidth shall be measured using one of the options below:
☒	Refer as ANSI C63.10, clause 6.9.3 and clause 10.1 for UWB bandwidth testing.

3.2.4 Test Setup

UWB Bandwidth

The diagram illustrates the measurement setup for UWB Bandwidth. A Spectrum Analyzer is connected to an EUT (Equipment Under Test). The Spectrum Analyzer displays a wideband signal on its screen.

UWB Bandwidth - Test Distance: 3m

The diagram illustrates the test setup for UWB bandwidth measurement. Key components and dimensions are as follows:

- EUT (Equipment Under Test):** A rectangular device mounted on a stand.
- Stand Height:** 1.5M.
- Test Distance:** 3M between the EUT and the antenna.
- Antenna:** A horn antenna mounted on a vertical mast.
- Mast Height:** 4M.
- Antenna Height:** 1.5M.
- Antenna Orientation:** The antenna is tilted at an angle, with a maximum height of 30cm indicated.
- Spectrum Analyzer:** A yellow device connected to the antenna via a blue cable.

3.2.5 Test Result of UWB Bandwidth

Refer as Appendix B

3.3 Peak Emissions within a 50 MHz Bandwidth

3.3.1 Peak Emissions within a 50 MHz Bandwidth Limit

Peak Emissions within a 50 MHz Bandwidth Limit
$P_{eirr} = 0 \text{ dBm/50MHz}$

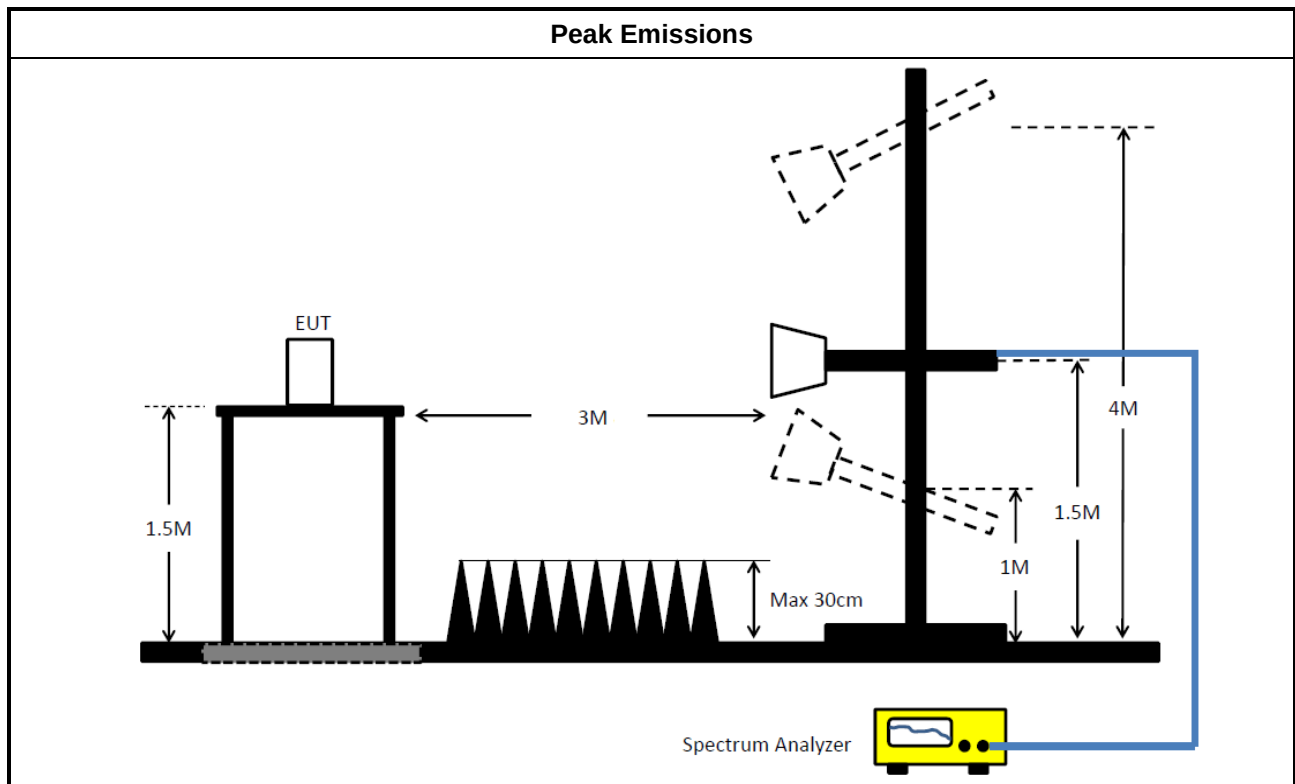
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
☒	Peak Emissions within a 50 MHz Bandwidth
☒	Refer as ANSI C63.10, clause 10.3.1 for radiated measurement procedure testing.
☒	Refer as ANSI C63.10, clause 10.3.2 for measurement distance is 3m.
☒	Refer as ANSI C63.10, clause 10.3.5 for peak detector procedure testing.
☐	Refer as ANSI C63.10, clause 10.3.6 for bandwidth conversion of peak power. $EIRP_{50MHz} = EIRP_{1MHz} - 20 \log(1MHz/50MHz)$

3.3.4 Test Setup



3.3.5 Test Result of Peak Emissions within a 50 MHz Bandwidth

Refer as Appendix C

3.4 Radiated Emissions

3.4.1 Radiated Emissions Limit

Radiated Emissions below 960MHz and Emissions from Digital Circuitry 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

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.

Radiated Emissions above 960MHz Limit	
Frequency Range (MHz)	EIRP (dBm)
960-1610	-75.3
1610-1990	-53.3
1990-3100	-51.3
3100-10600	-41.3
Above 10600	-51.3

Radiated Emissions in GPS Bands Limit	
Frequency Range (MHz)	EIRP (dBm)
1164-1240	-85.3
1559-1610	-85.3

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method for Radiated Emissions above 960MHz	
☒	Radiated Emissions above 960MHz
☒	Refer as ANSI C63.10, clause 10.3.1 for radiated measurement procedure testing.
☒	Refer as ANSI C63.10, clause 10.3.2 for measurement distance is 3m. In some cases, it may be necessary to measure the radiated UWB emissions at a closer distance to obtain enough signal and margin to overcome the measurement system noise floor. Distance extrapolation factor = 20 log (test distance [X m]/specific distance [3 m]) (dB)
☒	Refer as ANSI C63.10, clause 10.3.4 for rms detector procedure testing.
☒	Refer as ANSI C63.10, clause 10.3.7 for evaluating AVG-PSD (RBW=1MHz).
☒	Refer as ANSI C63.10, clause 10.3.10 for evaluating AVG-PSD in GPS Band (RBW≥1kHz).
☒	For radiated measurement.
☒	Refer as KDB 412172, clause 2.2 following eirp can be used radiated test configuration.
☒	Refer as KDB 412172, clause 5 following eirp can be directly determined using the field strength.
☐	Refer as KDB 412172, clause 6 following eirp can be used signal/antenna substitution techniques.

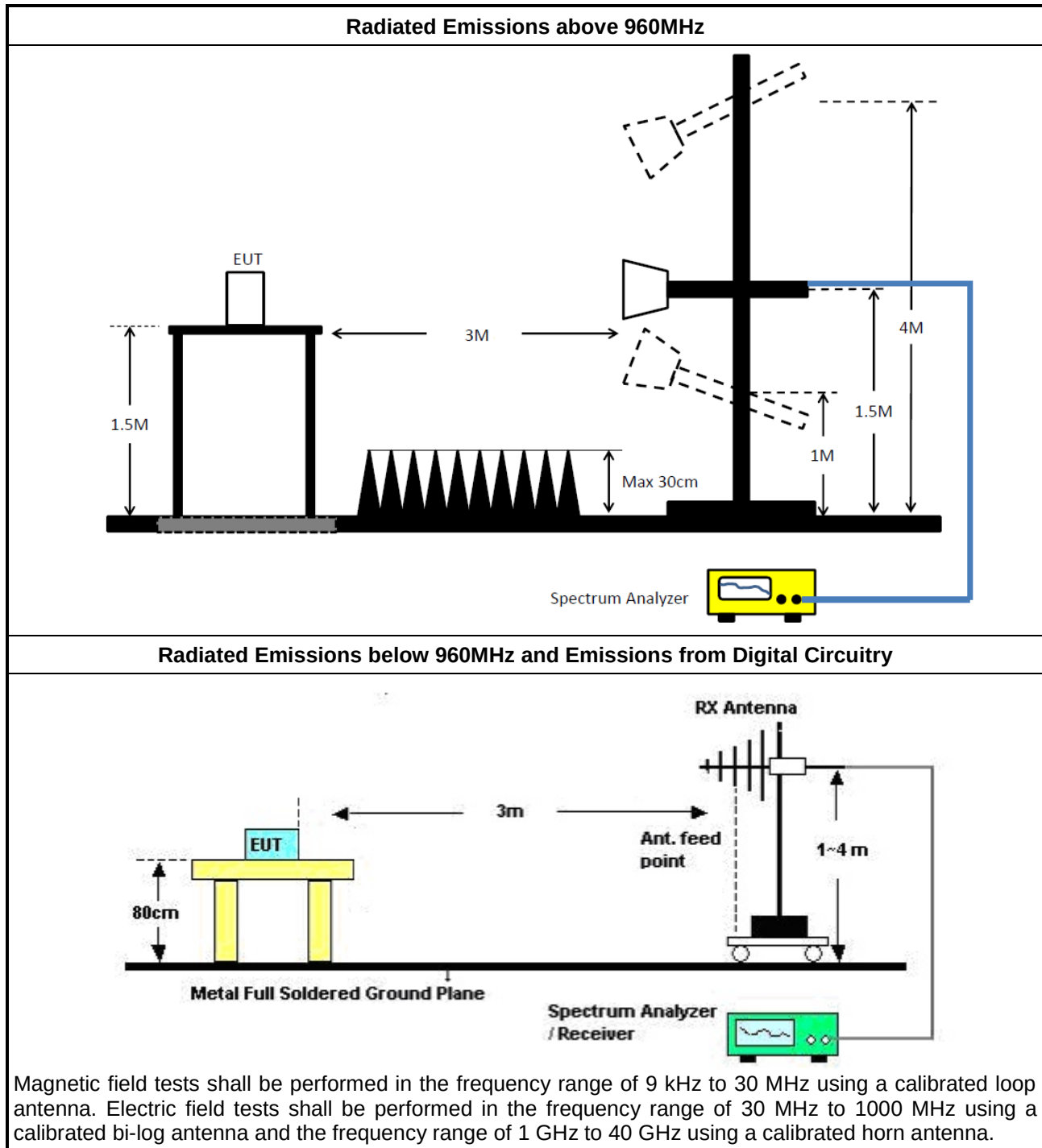
Test Method for Radiated Emissions below 960MHz and Emissions from Digital Circuitry	
☒	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing 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).
☒	For the transmitter unwanted emissions shall be measured using following options below:
☒	Refer as ANSI C63.10, clause 4.1.5.2.3 (Reduced VBW) – Duty cycle ≥ 100%.
☐	Refer as ANSI C63.10, clause 4.1.5.2.5 average value of pulsed emissions. Adjusted by a “duty cycle correction factor”, derived from 20log (dwell time/100 ms). Average emission = peak emission + 20 log (duty cycle).
☒	Refer as ANSI C63.10, clause 4.1.5.2.2 measurement procedure peak limit.
☒	For radiated measurement.
☒	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
☒	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
☒	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1 GHz and test distance is 3m.
☒	The any unwanted emissions level shall not exceed the fundamental emission level.

3.4.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.4.5 Test Setup



3.4.6 Radiated Emissions (Below 30MHz)

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

3.4.7 Test Result of Radiated Emissions

Refer as Appendix D

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	102052	9kHz ~ 3.6GHz	14/May/2025	13/May/2026
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	101274	9kHz ~ 30MHz	25/Jun/2025	24/Jun/2026
RF Cable 5m	MTJ	RG142	CO01-cable-01	9 kHz~200MHz	07/Jul/2025	06/Jul/2026
Pulse Limiter	ROHDE & SCHWARZ	EHS3-Z2	100920	9kHz ~ 30MHz	17/Oct/2025	16/Oct/2026
Software	Sporton	SENSE-EMI	V5.11.6	-	NCR	NCR

NCR: No Calibration Required

Instrument for Radiated Test (03CH02-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
N.S.A. Measurement	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3M	12/Jul/2025	11/Jul/2026
Site V.S.W.R	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3M	12/Jul/2025	11/Jul/2026
EMI Test Receiver	R&S	ESR	102052	9kHz~3.6GHz	14/May/2025	13/May/2026
Signal Analyzer	ROHDE & SCHWARZ	FSV3044	101750	10Hz~44GHz	10/Apr/2025	09/Apr/2026
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	20/Mar/2025	19/Mar/2026
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723/2	30MHz~1GHz	25/Aug/2025	24/Aug/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz~18GHz	03/Oct/2025	02/Oct/2026
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz~40GHz	02/Jul/2025	01/Jul/2026
RF Cable	MVE	400LL+SN 200207	03CH02-cable-05	9kHz~1GHz	08/Aug/2025	07/Aug/2026
RF Cable HUBER+SUHNER	HUBER+SUHNER	SUCOFLEX 104	03CH02-cable-06	1GHz~40GHz	15/Aug/2025	14/Aug/2026
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	27/Jun/2025	26/Jun/2026
Amplifier	EM	EM01G18GA	060933	1GHz~18GHz	14/Jul/2025	13/Jul/2026
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	30/Sep/2025	29/Sep/2026
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~40GHz	26/Apr/2025	25/Apr/2026
SENSE-UWB	Sporton	V5.11.15	N/A	N/A	N/A	N/A

Summary

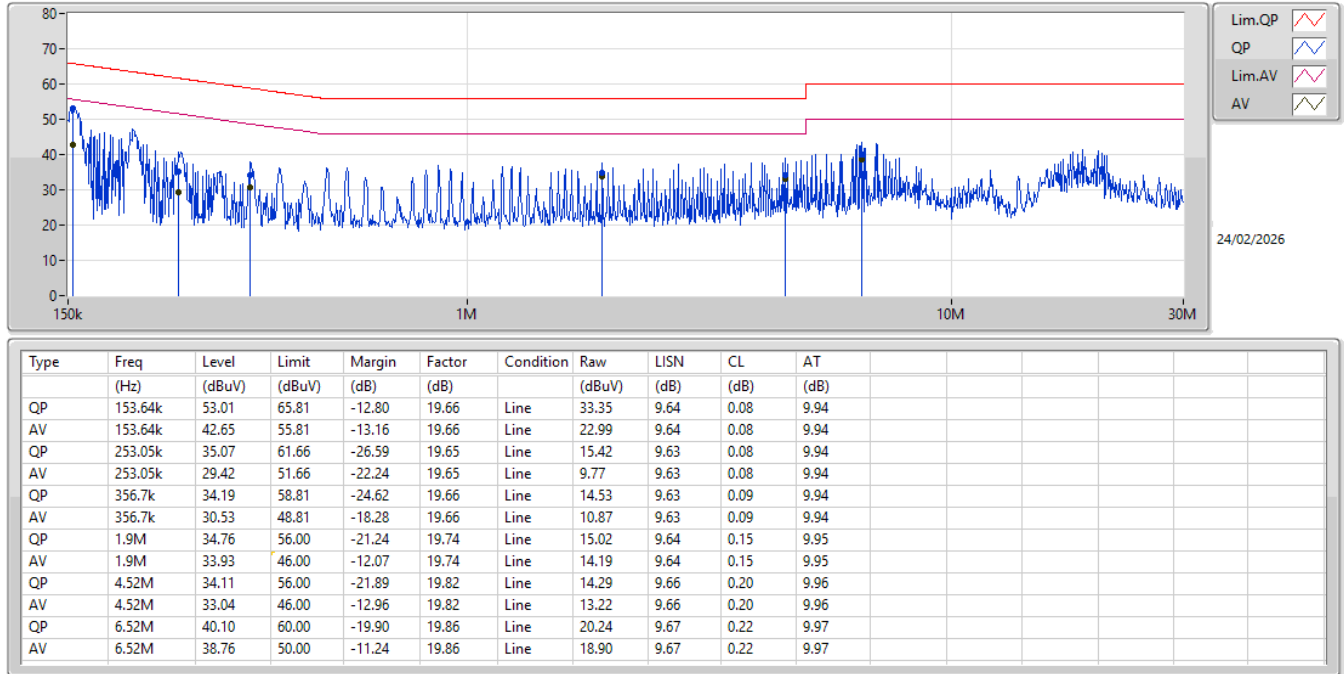
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	6.52M	38.76	50.00	-11.24	Line
Mode 2	Pass	QP	153.02k	52.58	65.83	-13.25	Neutral
Mode 3	Pass	AV	4.93M	35.19	46.00	-10.81	Neutral
Mode 4	Pass	QP	153.64k	51.48	65.81	-14.33	Neutral

Result

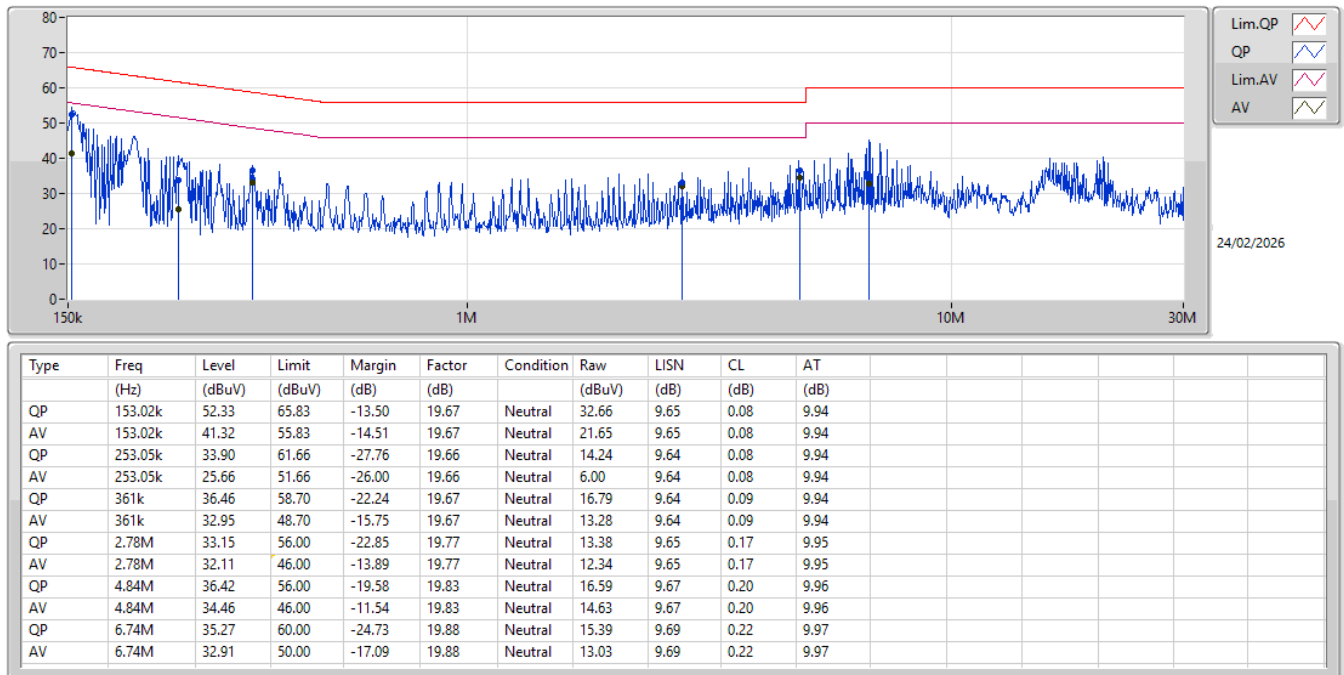
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	153.64k	53.01	65.81	-12.80	Line
Mode 1	Pass	AV	153.64k	42.65	55.81	-13.16	Line
Mode 1	Pass	QP	253.05k	35.07	61.66	-26.59	Line
Mode 1	Pass	AV	253.05k	29.42	51.66	-22.24	Line
Mode 1	Pass	QP	356.7k	34.19	58.81	-24.62	Line
Mode 1	Pass	AV	356.7k	30.53	48.81	-18.28	Line
Mode 1	Pass	QP	1.9M	34.76	56.00	-21.24	Line
Mode 1	Pass	AV	1.9M	33.93	46.00	-12.07	Line
Mode 1	Pass	QP	4.52M	34.11	56.00	-21.89	Line
Mode 1	Pass	AV	4.52M	33.04	46.00	-12.96	Line
Mode 1	Pass	QP	6.52M	40.10	60.00	-19.90	Line
Mode 1	Pass	AV	6.52M	38.76	50.00	-11.24	Line
Mode 1	Pass	QP	153.02k	52.33	65.83	-13.50	Neutral
Mode 1	Pass	AV	153.02k	41.32	55.83	-14.51	Neutral
Mode 1	Pass	QP	253.05k	33.90	61.66	-27.76	Neutral
Mode 1	Pass	AV	253.05k	25.66	51.66	-26.00	Neutral
Mode 1	Pass	QP	361k	36.46	58.70	-22.24	Neutral
Mode 1	Pass	AV	361k	32.95	48.70	-15.75	Neutral
Mode 1	Pass	QP	2.78M	33.15	56.00	-22.85	Neutral
Mode 1	Pass	AV	2.78M	32.11	46.00	-13.89	Neutral
Mode 1	Pass	QP	4.84M	36.42	56.00	-19.58	Neutral
Mode 1	Pass	AV	4.84M	34.46	46.00	-11.54	Neutral
Mode 1	Pass	QP	6.74M	35.27	60.00	-24.73	Neutral
Mode 1	Pass	AV	6.74M	32.91	50.00	-17.09	Neutral
Mode 2	Pass	QP	151.81k	52.62	65.90	-13.28	Line
Mode 2	Pass	AV	151.81k	33.89	55.90	-22.01	Line
Mode 2	Pass	QP	251.04k	37.33	61.72	-24.39	Line
Mode 2	Pass	AV	251.04k	22.27	51.72	-29.45	Line
Mode 2	Pass	QP	460.54k	31.95	56.69	-24.74	Line
Mode 2	Pass	AV	460.54k	22.29	46.69	-24.40	Line
Mode 2	Pass	QP	767.68k	21.41	56.00	-34.59	Line
Mode 2	Pass	AV	767.68k	17.19	46.00	-28.81	Line
Mode 2	Pass	QP	3.51M	18.73	56.00	-37.27	Line
Mode 2	Pass	AV	3.51M	16.41	46.00	-29.59	Line
Mode 2	Pass	QP	28.92M	28.17	60.00	-31.83	Line
Mode 2	Pass	AV	28.92M	21.97	50.00	-28.03	Line
Mode 2	Pass	QP	153.02k	52.58	65.83	-13.25	Neutral
Mode 2	Pass	AV	153.02k	33.74	55.83	-22.09	Neutral
Mode 2	Pass	QP	255.08k	37.34	61.58	-24.24	Neutral
Mode 2	Pass	AV	255.08k	23.09	51.58	-28.49	Neutral
Mode 2	Pass	QP	456.88k	33.85	56.75	-22.90	Neutral
Mode 2	Pass	AV	456.88k	25.53	46.75	-21.22	Neutral
Mode 2	Pass	QP	1.58M	23.35	56.00	-32.65	Neutral
Mode 2	Pass	AV	1.58M	19.44	46.00	-26.56	Neutral
Mode 2	Pass	QP	3M	22.42	56.00	-33.58	Neutral
Mode 2	Pass	AV	3M	19.30	46.00	-26.70	Neutral
Mode 2	Pass	QP	29.5M	25.45	60.00	-34.55	Neutral
Mode 2	Pass	AV	29.5M	19.98	50.00	-30.02	Neutral
Mode 3	Pass	QP	155.49k	51.96	65.69	-13.73	Line
Mode 3	Pass	AV	155.49k	41.69	55.69	-14.00	Line

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 3	Pass	QP	257.12k	36.70	61.53	-24.83	Line
Mode 3	Pass	AV	257.12k	31.58	51.53	-19.95	Line
Mode 3	Pass	QP	363.9k	36.85	58.64	-21.79	Line
Mode 3	Pass	AV	363.9k	34.02	48.64	-14.62	Line
Mode 3	Pass	QP	2.65M	34.08	56.00	-21.92	Line
Mode 3	Pass	AV	2.65M	31.84	46.00	-14.16	Line
Mode 3	Pass	QP	4.87M	32.49	56.00	-23.51	Line
Mode 3	Pass	AV	4.87M	31.10	46.00	-14.90	Line
Mode 3	Pass	QP	6.9M	38.72	60.00	-21.28	Line
Mode 3	Pass	AV	6.9M	35.03	50.00	-14.97	Line
Mode 3	Pass	QP	155.49k	51.56	65.69	-14.13	Neutral
Mode 3	Pass	AV	155.49k	40.54	55.69	-15.15	Neutral
Mode 3	Pass	QP	257.12k	35.61	61.53	-25.92	Neutral
Mode 3	Pass	AV	257.12k	27.66	51.53	-23.87	Neutral
Mode 3	Pass	QP	362.45k	36.29	58.68	-22.39	Neutral
Mode 3	Pass	AV	362.45k	33.27	48.68	-15.41	Neutral
Mode 3	Pass	QP	2.75M	35.10	56.00	-20.90	Neutral
Mode 3	Pass	AV	2.75M	34.48	46.00	-11.52	Neutral
Mode 3	Pass	QP	4.93M	36.62	56.00	-19.38	Neutral
Mode 3	Pass	AV	4.93M	35.19	46.00	-10.81	Neutral
Mode 3	Pass	QP	7.01M	38.62	60.00	-21.38	Neutral
Mode 3	Pass	AV	7.01M	35.71	50.00	-14.29	Neutral
Mode 4	Pass	QP	151.2k	51.47	65.92	-14.45	Line
Mode 4	Pass	AV	151.2k	33.01	55.92	-22.91	Line
Mode 4	Pass	QP	257.12k	35.92	61.53	-25.61	Line
Mode 4	Pass	AV	257.12k	22.96	51.53	-28.57	Line
Mode 4	Pass	QP	462.38k	31.45	56.65	-25.20	Line
Mode 4	Pass	AV	462.38k	22.33	46.65	-24.32	Line
Mode 4	Pass	QP	1.35M	21.00	56.00	-35.00	Line
Mode 4	Pass	AV	1.35M	17.38	46.00	-28.62	Line
Mode 4	Pass	QP	4.43M	18.34	56.00	-37.66	Line
Mode 4	Pass	AV	4.43M	16.25	46.00	-29.75	Line
Mode 4	Pass	QP	29.74M	28.37	60.00	-31.63	Line
Mode 4	Pass	AV	29.74M	21.61	50.00	-28.39	Line
Mode 4	Pass	QP	153.64k	51.48	65.81	-14.33	Neutral
Mode 4	Pass	AV	153.64k	32.84	55.81	-22.97	Neutral
Mode 4	Pass	QP	256.1k	35.92	61.56	-25.64	Neutral
Mode 4	Pass	AV	256.1k	22.50	51.56	-29.06	Neutral
Mode 4	Pass	QP	464.23k	33.78	56.61	-22.83	Neutral
Mode 4	Pass	AV	464.23k	26.56	46.61	-20.05	Neutral
Mode 4	Pass	QP	1.44M	25.25	56.00	-30.75	Neutral
Mode 4	Pass	AV	1.44M	20.74	46.00	-25.26	Neutral
Mode 4	Pass	QP	4.48M	21.33	56.00	-34.67	Neutral
Mode 4	Pass	AV	4.48M	18.09	46.00	-27.91	Neutral
Mode 4	Pass	QP	29.62M	26.75	60.00	-33.25	Neutral
Mode 4	Pass	AV	29.62M	20.64	50.00	-29.36	Neutral

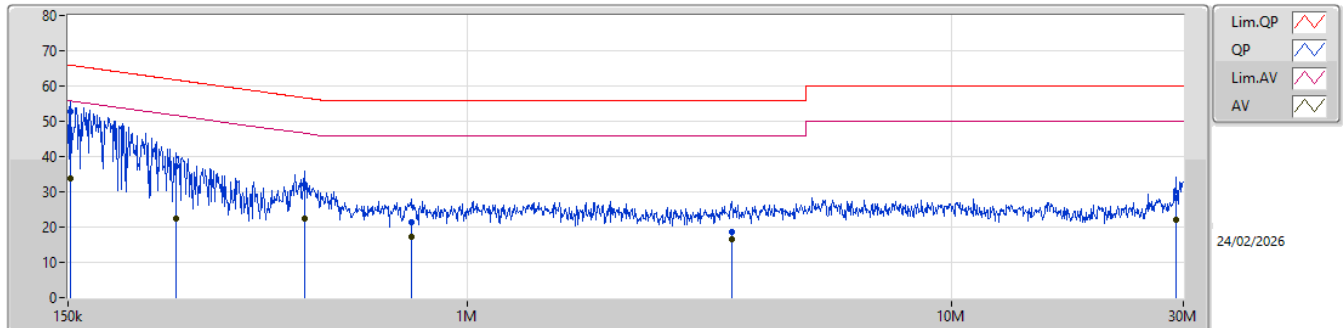
Conducted Emissions at Powerline_Mode 1



Conducted Emissions at Powerline_Mode 1

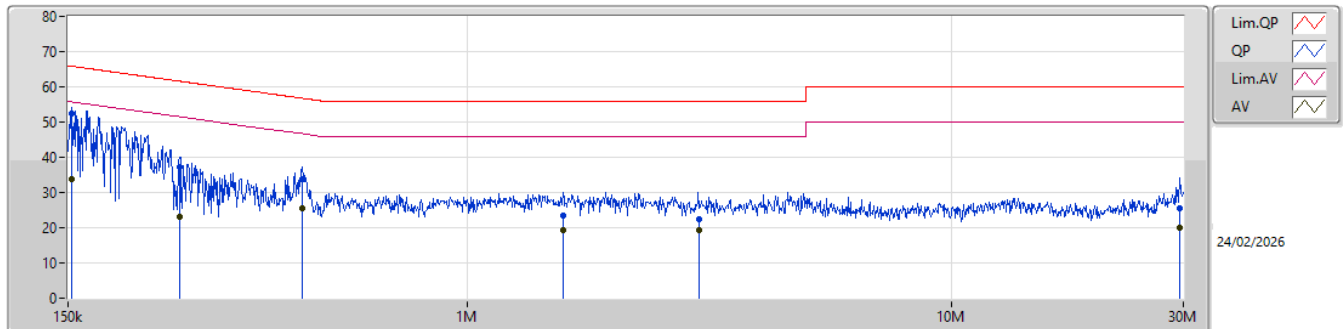


Conducted Emissions at Powerline_Mode 2



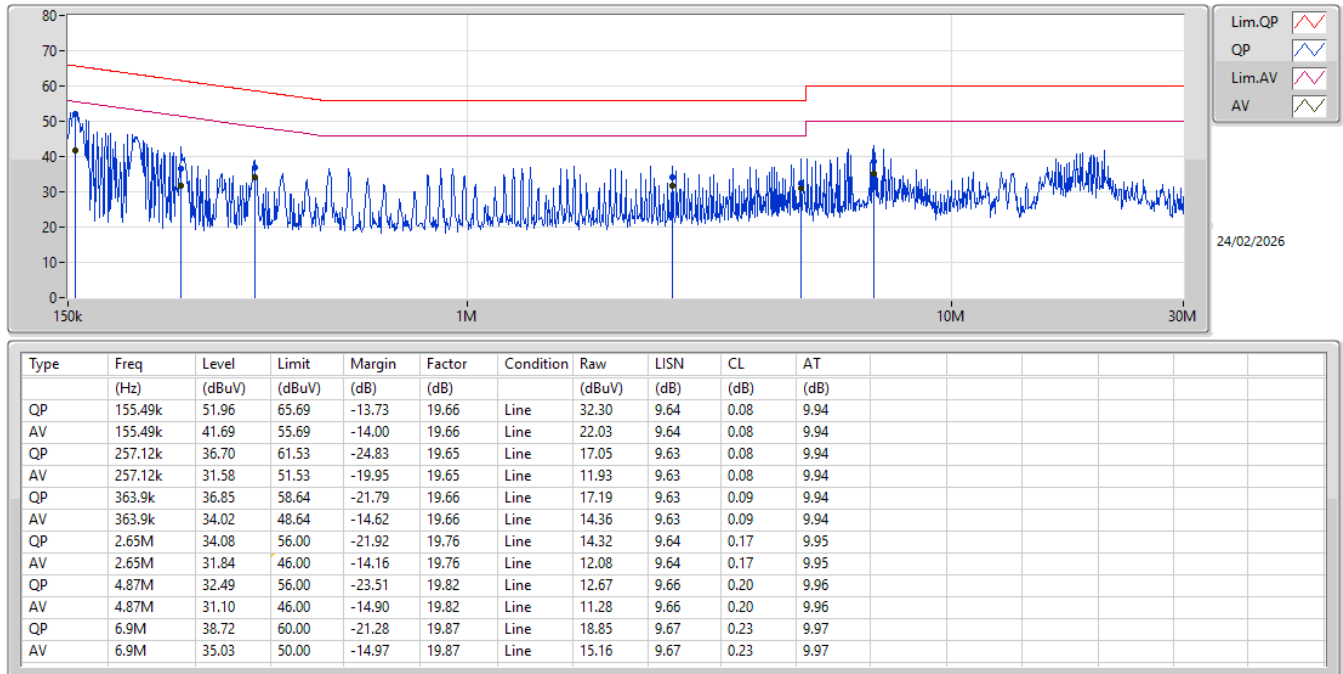
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QP	151.81k	52.62	65.90	-13.28	19.66	Line	32.96	9.64	0.08	9.94
AV	151.81k	33.89	55.90	-22.01	19.66	Line	14.23	9.64	0.08	9.94
QP	251.04k	37.33	61.72	-24.39	19.65	Line	17.68	9.63	0.08	9.94
AV	251.04k	22.27	51.72	-29.45	19.65	Line	2.62	9.63	0.08	9.94
QP	460.54k	31.95	56.69	-24.74	19.66	Line	12.29	9.63	0.09	9.94
AV	460.54k	22.29	46.69	-24.40	19.66	Line	2.63	9.63	0.09	9.94
QP	767.68k	21.41	56.00	-34.59	19.67	Line	1.74	9.63	0.10	9.94
AV	767.68k	17.19	46.00	-28.81	19.67	Line	-2.48	9.63	0.10	9.94
QP	3.51M	18.73	56.00	-37.27	19.78	Line	-1.05	9.65	0.18	9.95
AV	3.51M	16.41	46.00	-29.59	19.78	Line	-3.37	9.65	0.18	9.95
QP	28.92M	28.17	60.00	-31.83	20.05	Line	8.12	9.55	0.42	10.08
AV	28.92M	21.97	50.00	-28.03	20.05	Line	1.92	9.55	0.42	10.08

Conducted Emissions at Powerline_Mode 2

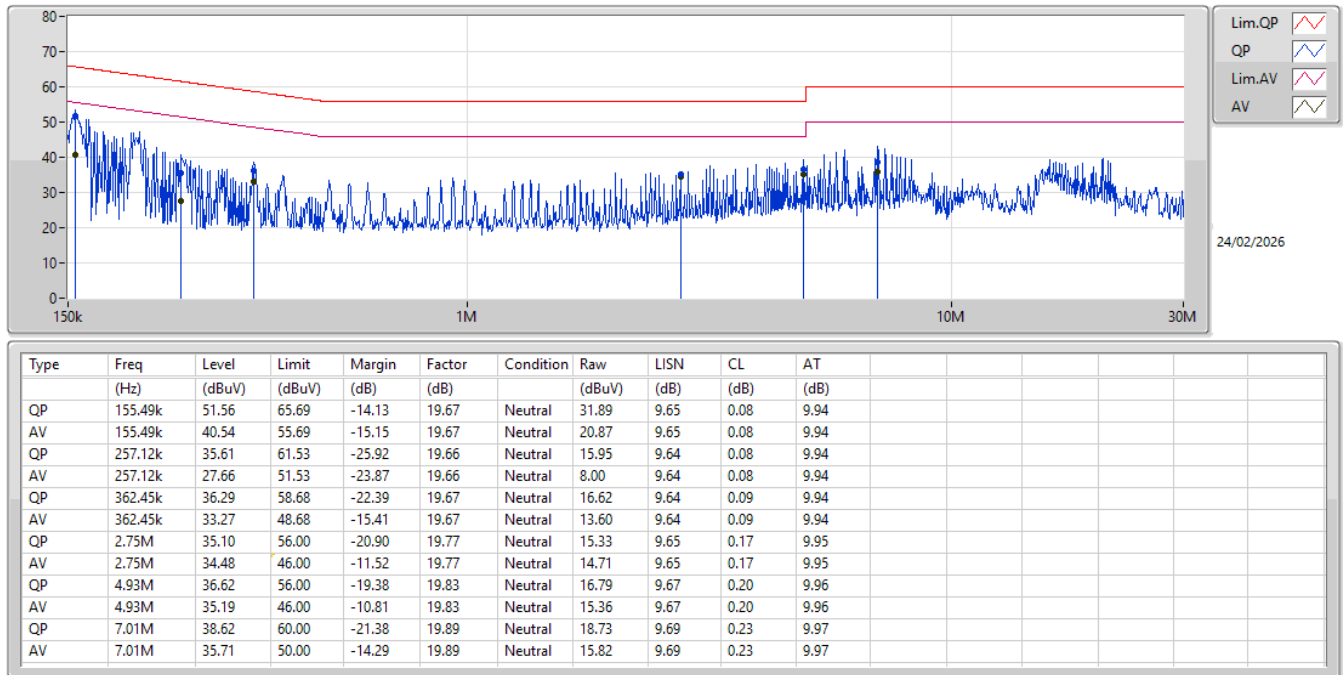


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	153.02k	52.58	65.83	-13.25	19.67	Neutral	32.91	9.65	0.08	9.94
AV	153.02k	33.74	55.83	-22.09	19.67	Neutral	14.07	9.65	0.08	9.94
QP	255.08k	37.34	61.58	-24.24	19.66	Neutral	17.68	9.64	0.08	9.94
AV	255.08k	23.09	51.58	-28.49	19.66	Neutral	3.43	9.64	0.08	9.94
QP	456.88k	33.85	56.75	-22.90	19.67	Neutral	14.18	9.64	0.09	9.94
AV	456.88k	25.53	46.75	-21.22	19.67	Neutral	5.86	9.64	0.09	9.94
QP	1.58M	23.35	56.00	-32.65	19.74	Neutral	3.61	9.65	0.14	9.95
AV	1.58M	19.44	46.00	-26.56	19.74	Neutral	-0.30	9.65	0.14	9.95
QP	3M	22.42	56.00	-33.58	19.78	Neutral	2.64	9.66	0.17	9.95
AV	3M	19.30	46.00	-26.70	19.78	Neutral	-0.48	9.66	0.17	9.95
QP	29.5M	25.45	60.00	-34.55	20.23	Neutral	5.22	9.72	0.43	10.08
AV	29.5M	19.98	50.00	-30.02	20.23	Neutral	-0.25	9.72	0.43	10.08

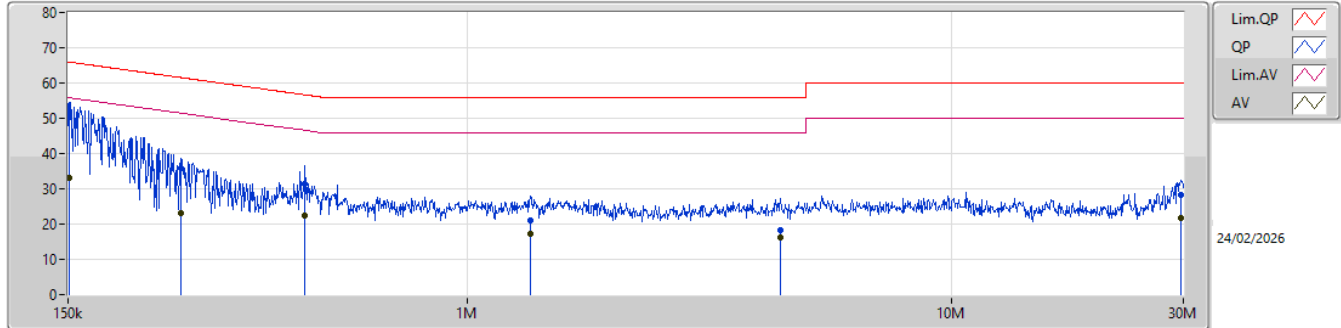
Conducted Emissions at Powerline_Mode 3



Conducted Emissions at Powerline_Mode 3

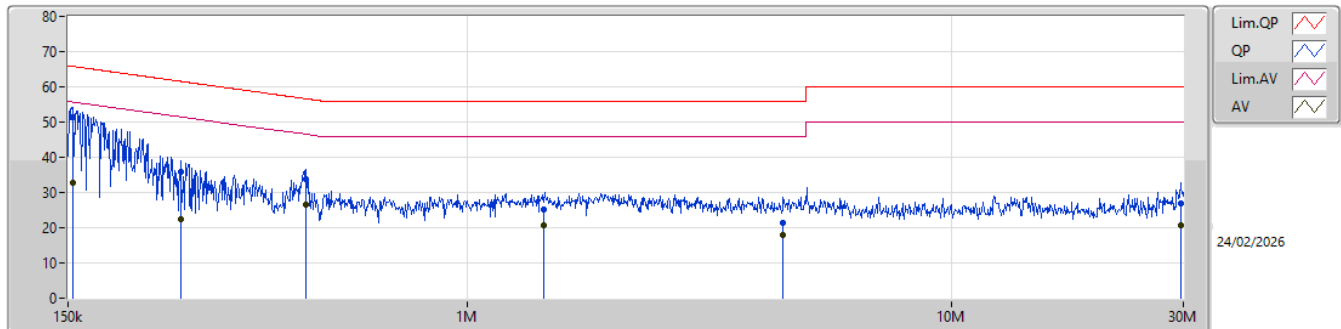


Conducted Emissions at Powerline_Mode 4



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)								
QP	151.2k	51.47	65.92	-14.45	19.66	Line	31.81	9.64	0.08	9.94								
AV	151.2k	33.01	55.92	-22.91	19.66	Line	13.35	9.64	0.08	9.94								
QP	257.12k	35.92	61.53	-25.61	19.65	Line	16.27	9.63	0.08	9.94								
AV	257.12k	22.96	51.53	-28.57	19.65	Line	3.31	9.63	0.08	9.94								
QP	462.38k	31.45	56.65	-25.20	19.66	Line	11.79	9.63	0.09	9.94								
AV	462.38k	22.33	46.65	-24.32	19.66	Line	2.67	9.63	0.09	9.94								
QP	1.35M	21.00	56.00	-35.00	19.70	Line	1.30	9.63	0.13	9.94								
AV	1.35M	17.38	46.00	-28.62	19.70	Line	-2.32	9.63	0.13	9.94								
QP	4.43M	18.34	56.00	-37.66	19.80	Line	-1.46	9.65	0.20	9.95								
AV	4.43M	16.25	46.00	-29.75	19.80	Line	-3.55	9.65	0.20	9.95								
QP	29.74M	28.37	60.00	-31.63	20.05	Line	8.32	9.54	0.43	10.08								
AV	29.74M	21.61	50.00	-28.39	20.05	Line	1.56	9.54	0.43	10.08								

Conducted Emissions at Powerline_Mode 4



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)								
QP	153.64k	51.48	65.81	-14.33	19.67	Neutral	31.81	9.65	0.08	9.94								
AV	153.64k	32.84	55.81	-22.97	19.67	Neutral	13.17	9.65	0.08	9.94								
QP	256.1k	35.92	61.56	-25.64	19.66	Neutral	16.26	9.64	0.08	9.94								
AV	256.1k	22.50	51.56	-29.06	19.66	Neutral	2.84	9.64	0.08	9.94								
QP	464.23k	33.78	56.61	-22.83	19.67	Neutral	14.11	9.64	0.09	9.94								
AV	464.23k	26.56	46.61	-20.05	19.67	Neutral	6.89	9.64	0.09	9.94								
QP	1.44M	25.25	56.00	-30.75	19.73	Neutral	5.52	9.65	0.13	9.95								
AV	1.44M	20.74	46.00	-25.26	19.73	Neutral	1.01	9.65	0.13	9.95								
QP	4.48M	21.33	56.00	-34.67	19.82	Neutral	1.51	9.67	0.20	9.95								
AV	4.48M	18.09	46.00	-27.91	19.82	Neutral	-1.73	9.67	0.20	9.95								
QP	29.62M	26.75	60.00	-33.25	20.23	Neutral	6.52	9.72	0.43	10.08								
AV	29.62M	20.64	50.00	-29.36	20.23	Neutral	0.41	9.72	0.43	10.08								

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
3.1-10.6GHz	-	-	-	-	-
Ultra Wide Band_Nss1,(HRP)_1TX(Port1)	504M	1.053G	1G05D1D	504M	1.053G
Ultra Wide Band_Nss1,(HRP)_1TX(Port2)	571.5M	1.125G	1G13D1D	571.5M	1.125G

Max-N dB = Maximum 10dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 10dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

**Result**

Mode	Result	Limit (Hz)	F _M (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
Ultra Wide Band_Nss1,(HRP)_1TX(Port1)	-	-	-	-	-	-	-
7987.2MHz	Pass	500M	7831.28M	504M	1.053G	-	-
Ultra Wide Band_Nss1,(HRP)_1TX(Port2)	-	-	-	-	-	-	-
7987.2MHz	Pass	500M	7987.2M	-	-	571.5M	1.125G

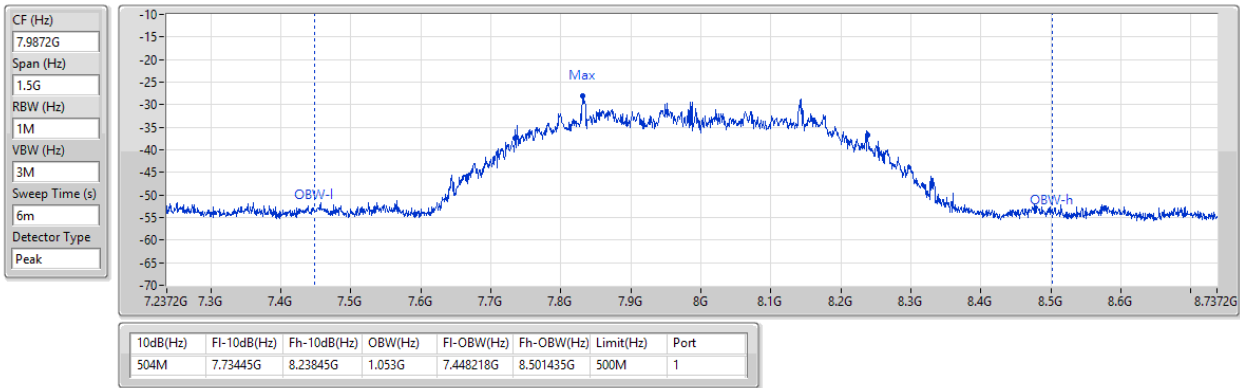
Port X-N dB = Port X 10dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port1)

EBW

7987.2MHz

21/11/2025

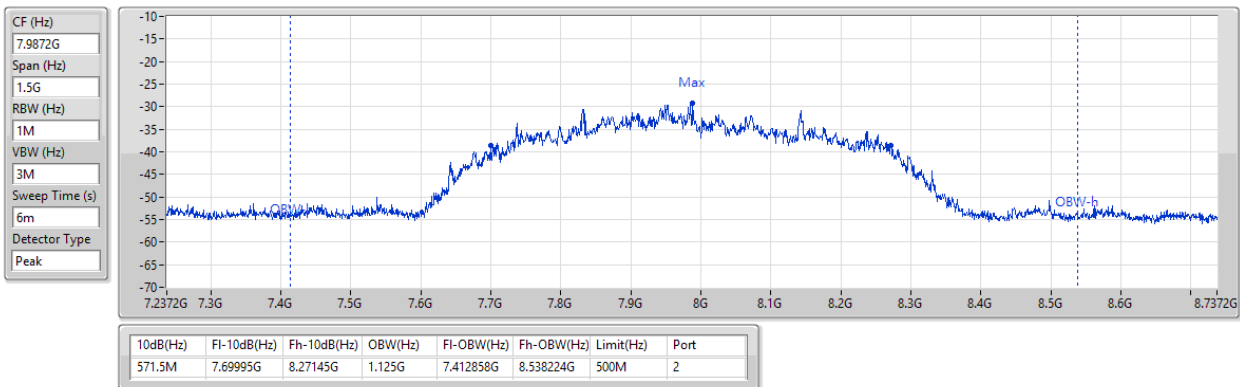


3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port2)

EBW

7987.2MHz

21/11/2025





Summary

Mode	EIRP PD (dBm/50MHz)
3.1-10.6GHz	-
Ultra Wide Band_Nss1_1TX(Port1)	-0.18



Result

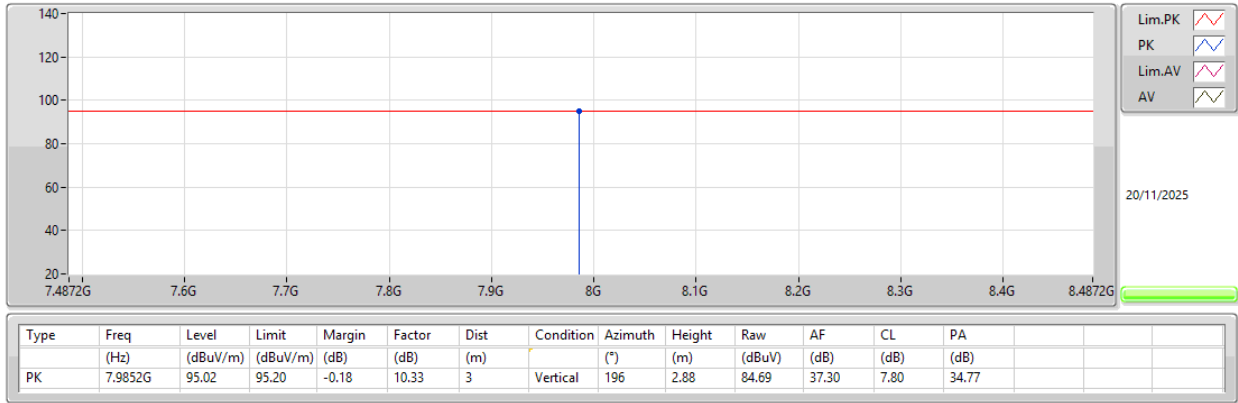
Mode	Result	Raw (dBuV/m)	RBW (MHz)	Factor (dB)	EIRP PD (dBm/50MHz)	EIRP PD Limit (dBm/50MHz)
Ultra Wide Band_Nss1_1TX(Port1)	-	-		-	-	-
7987.2 MHz	Pass	84.69	50	84.87	-0.18	0
Ultra Wide Band_Nss1_1TX(Port2)	-	-		-	-	-
7987.2 MHz	Pass	84.60	50	84.81	-0.21	0

Factor=20*log (RBW/50Mhz) - 95.2 + (AF + CL - PA)

EIRP PD= Raw -Factor

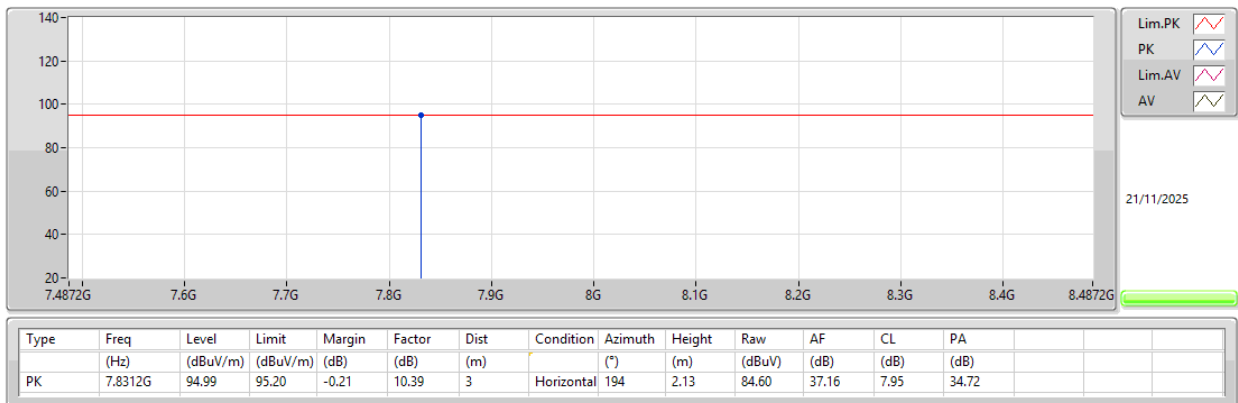
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port1)

7987.2MHz_TX



3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port2)

7987.2MHz_TX





Summary

Mode	EIRP PD (dBm/MHz)
3.1-10.6GHz	-
Ultra Wide Band_Nss1_1TX(Port2)	-45.67



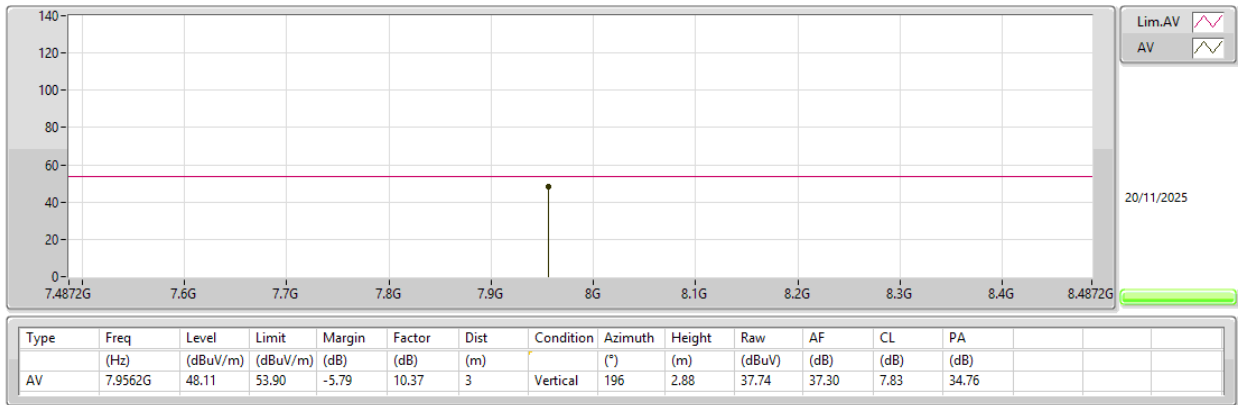
Result

Mode	Result	Raw (dBuV/m)	RBW (MHz)	Factor (dB)	EIRP PD (dBm/MHz)	EIRP PD Limit (dBm/MHz)
Ultra Wide Band_Nss1_1TX(Port1)	-	-		-	-	-
7987.2MHz	Pass	37.74	1	84.83	-47.09	-41.30
Ultra Wide Band_Nss1_1TX(Port2)	-				-	-
7987.2 MHz	Pass	39.14	1	84.81	-45.67	-41.30

EIRP PD= Raw - 95.2 + (AF + CL - PA)

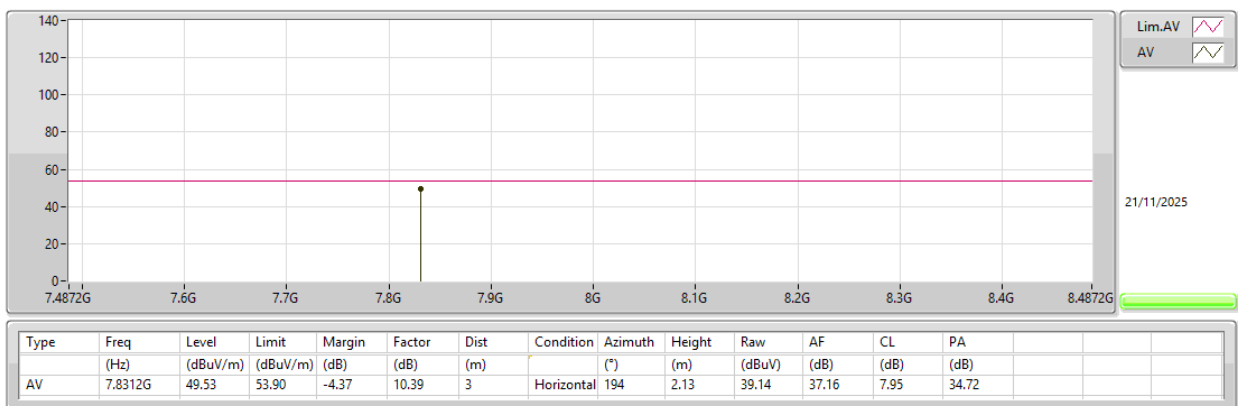
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port1)

7987.2MHz_TX



3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port2)

7987.2MHz_TX





Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
3.1-10.6GHz	-	-	-	-	-	-	-	-	-	-
Ultra Wide Band_Nss1,(HRP)_1TX(Port1)	Pass	PK	39.3M	35.38	40.00	-4.62	3	Vertical	360	1.00
Ultra Wide Band_Nss1,(HRP)_1TX(Port2)	Pass	PK	31.86M	36.64	40.00	-3.36	3	Horizontal	0	1.00

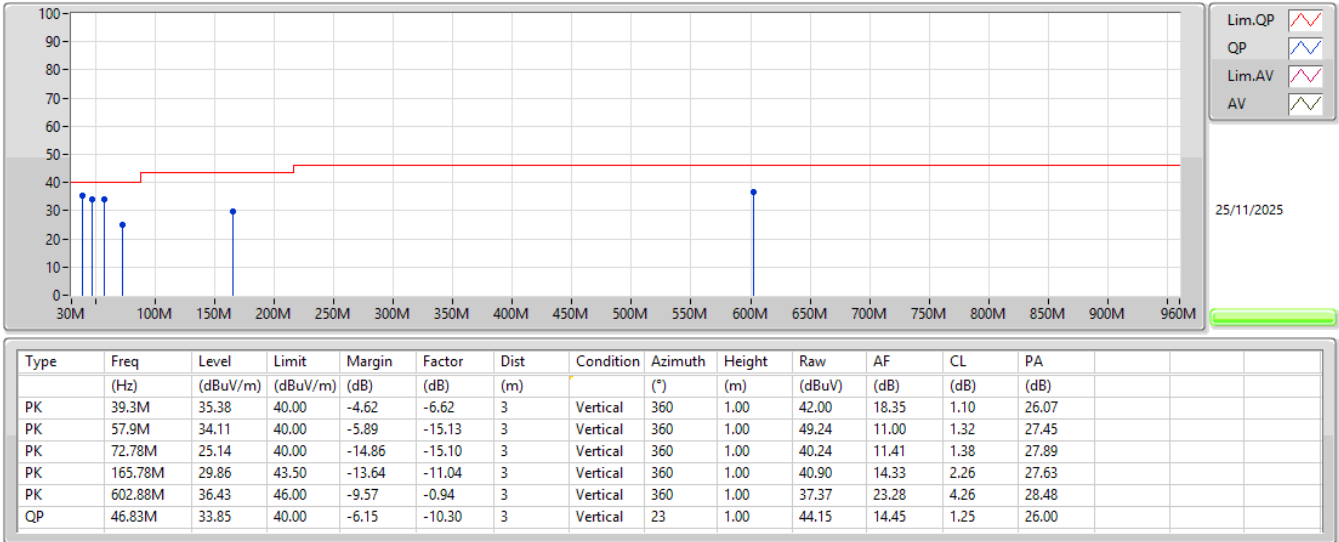
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Ultra Wide Band_Nss1,(HRP)_1TX(Port1)	-	-	-	-	-	-	-	-	-	-
7987.2MHz_Adapter	Pass	PK	39.3M	35.38	40.00	-4.62	3	Vertical	360	1.00
7987.2MHz_Adapter	Pass	PK	57.9M	34.11	40.00	-5.89	3	Vertical	360	1.00
7987.2MHz_Adapter	Pass	PK	72.78M	25.14	40.00	-14.86	3	Vertical	360	1.00
7987.2MHz_Adapter	Pass	PK	165.78M	29.86	43.50	-13.64	3	Vertical	360	1.00
7987.2MHz_Adapter	Pass	PK	602.88M	36.43	46.00	-9.57	3	Vertical	360	1.00
7987.2MHz_Adapter	Pass	QP	46.83M	33.85	40.00	-6.15	3	Vertical	23	1.00
7987.2MHz_Adapter	Pass	PK	31.86M	28.59	40.00	-11.41	3	Horizontal	0	1.00
7987.2MHz_Adapter	Pass	PK	44.88M	27.28	40.00	-12.72	3	Horizontal	0	1.00
7987.2MHz_Adapter	Pass	PK	61.62M	30.17	40.00	-9.83	3	Horizontal	0	1.00
7987.2MHz_Adapter	Pass	PK	508.02M	32.37	46.00	-13.63	3	Horizontal	0	1.00
7987.2MHz_Adapter	Pass	PK	614.04M	32.32	46.00	-13.68	3	Horizontal	0	1.00
7987.2MHz_Adapter	Pass	PK	807.48M	32.25	46.00	-13.75	3	Horizontal	0	1.00
7987.2MHz_PoE	Pass	PK	39.7M	33.88	40.00	-6.12	3	Vertical	360	1.00
7987.2MHz_PoE	Pass	PK	251.16M	30.22	46.00	-15.78	3	Vertical	360	1.00
7987.2MHz_PoE	Pass	PK	439.34M	26.53	46.00	-19.47	3	Vertical	360	1.00
7987.2MHz_PoE	Pass	PK	555.74M	33.50	46.00	-12.50	3	Vertical	360	1.00
7987.2MHz_PoE	Pass	PK	565.44M	36.97	46.00	-9.03	3	Vertical	360	1.00
7987.2MHz_PoE	Pass	QP	57.74M	28.74	40.00	-11.26	3	Vertical	313	1.41
7987.2MHz_PoE	Pass	PK	31.94M	27.73	40.00	-12.27	3	Horizontal	0	1.00
7987.2MHz_PoE	Pass	PK	90.14M	26.90	43.50	-16.60	3	Horizontal	0	1.00
7987.2MHz_PoE	Pass	PK	249.22M	30.67	46.00	-15.33	3	Horizontal	0	1.00
7987.2MHz_PoE	Pass	PK	408.3M	28.92	46.00	-17.08	3	Horizontal	0	1.00
7987.2MHz_PoE	Pass	PK	505.3M	28.80	46.00	-17.20	3	Horizontal	0	1.00
7987.2MHz_PoE	Pass	PK	559.62M	31.82	46.00	-14.18	3	Horizontal	0	1.00
Ultra Wide Band_Nss1,(HRP)_1TX(Port2)	-	-	-	-	-	-	-	-	-	-
7987.2MHz_Adapter	Pass	PK	89.52M	28.96	43.50	-14.54	3	Vertical	360	1.00
7987.2MHz_Adapter	Pass	PK	506.16M	31.07	46.00	-14.93	3	Vertical	360	1.00
7987.2MHz_Adapter	Pass	PK	561.96M	35.38	46.00	-10.62	3	Vertical	360	1.00
7987.2MHz_Adapter	Pass	QP	32.78M	26.88	40.00	-13.12	3	Vertical	159	1.42
7987.2MHz_Adapter	Pass	QP	46.77M	33.13	40.00	-6.87	3	Vertical	0	1.00
7987.2MHz_Adapter	Pass	QP	58.04M	33.79	40.00	-6.21	3	Vertical	84	1.11
7987.2MHz_Adapter	Pass	PK	31.86M	36.64	40.00	-3.36	3	Horizontal	0	1.00
7987.2MHz_Adapter	Pass	PK	48.6M	27.23	40.00	-12.77	3	Horizontal	0	1.00
7987.2MHz_Adapter	Pass	PK	59.76M	27.41	40.00	-12.59	3	Horizontal	0	1.00
7987.2MHz_Adapter	Pass	PK	508.02M	32.88	46.00	-13.12	3	Horizontal	0	1.00
7987.2MHz_Adapter	Pass	PK	614.04M	33.50	46.00	-12.50	3	Horizontal	0	1.00
7987.2MHz_Adapter	Pass	PK	770.28M	32.81	46.00	-13.19	3	Horizontal	0	1.00
7987.2MHz_PoE	Pass	PK	39.3M	34.76	40.00	-5.24	3	Vertical	360	1.00
7987.2MHz_PoE	Pass	PK	52.32M	31.88	40.00	-8.12	3	Vertical	360	1.00
7987.2MHz_PoE	Pass	PK	56.04M	34.27	40.00	-5.73	3	Vertical	360	1.00
7987.2MHz_PoE	Pass	PK	72.78M	27.06	40.00	-12.94	3	Vertical	360	1.00
7987.2MHz_PoE	Pass	PK	502.44M	29.64	46.00	-16.36	3	Vertical	360	1.00
7987.2MHz_PoE	Pass	PK	561.96M	37.00	46.00	-9.00	3	Vertical	360	1.00
7987.2MHz_PoE	Pass	PK	67.2M	22.59	40.00	-17.41	3	Horizontal	0	1.00

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
7987.2MHz_PoE	Pass	PK	89.52M	25.32	43.50	-18.18	3	Horizontal	0	1.00
7987.2MHz_PoE	Pass	PK	212.28M	25.56	43.50	-17.94	3	Horizontal	0	1.00
7987.2MHz_PoE	Pass	PK	249.48M	31.00	46.00	-15.00	3	Horizontal	0	1.00
7987.2MHz_PoE	Pass	PK	405.72M	29.08	46.00	-16.92	3	Horizontal	0	1.00
7987.2MHz_PoE	Pass	PK	560.1M	31.77	46.00	-14.23	3	Horizontal	0	1.00

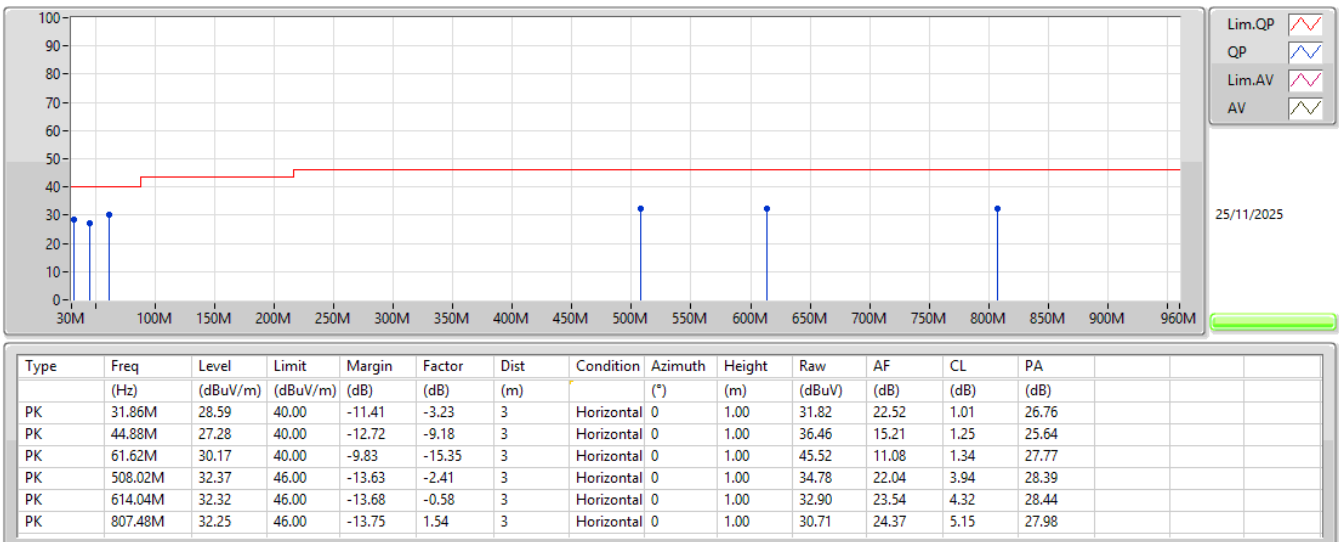
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port1)

7987.2MHz_Adapter



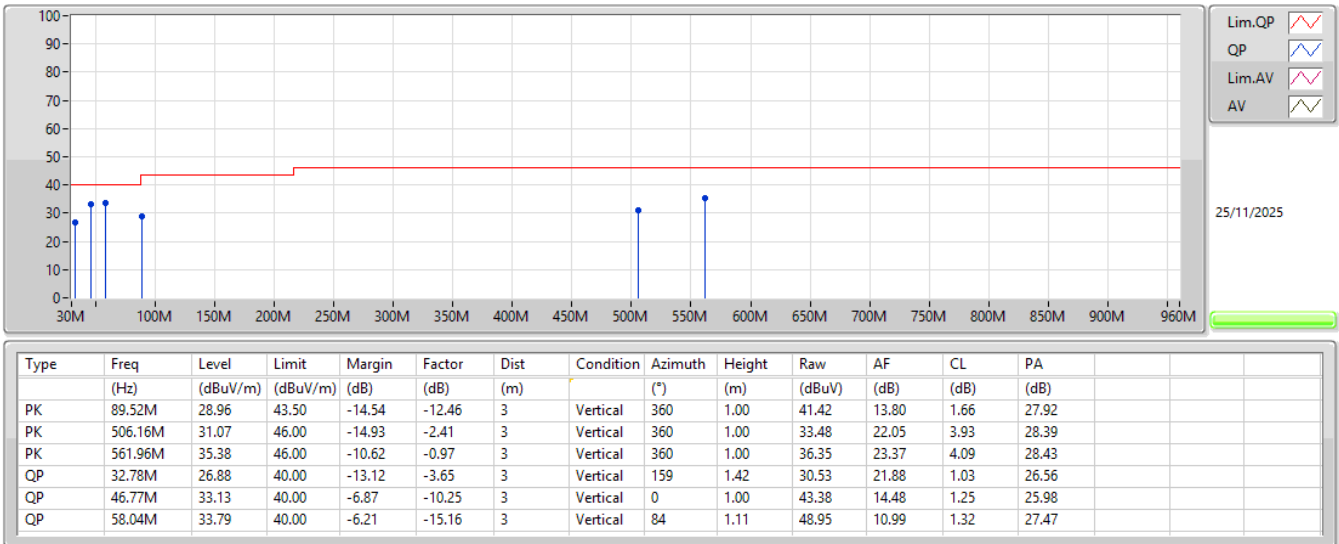
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port1)

7987.2MHz_Adapter



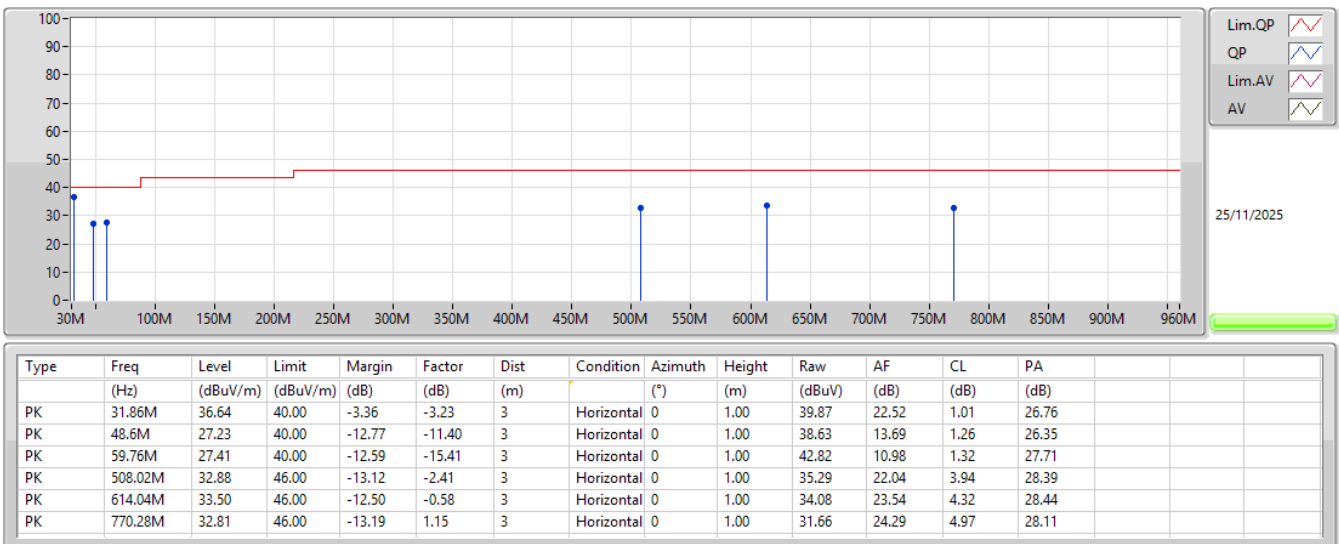
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port2)

7987.2MHz_Adapter



3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port2)

7987.2MHz_Adapter





Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
3.1-10.6GHz	-	-	-	-	-	-	-	-	-	-
Ultra Wide Band_Nss1,(HRP)_1TX(Port1)	Pass	AV	978.85M	24.14	-	-	3	Vertical	360	1.50
Ultra Wide Band_Nss1,(HRP)_1TX(Port2)	Pass	AV	963.69M	24.90	-	-	3	Vertical	360	1.50

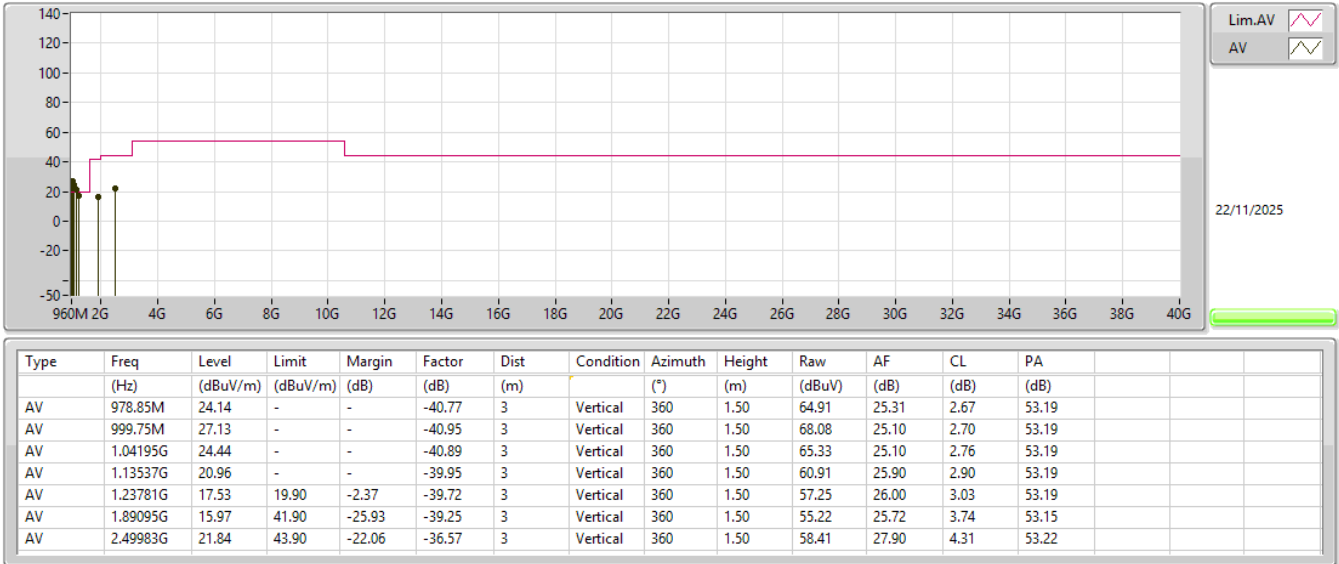
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Ultra Wide Band_Nss1,(HRP)_1TX(Port1)	-	-	-	-	-	-	-	-	-	-
7987.2MHz	Pass	AV	978.85M	24.14	-	-	3	Vertical	360	1.50
7987.2MHz	Pass	AV	999.75M	27.13	-	-	3	Vertical	360	1.50
7987.2MHz	Pass	AV	1.04195G	24.44	-	-	3	Vertical	360	1.50
7987.2MHz	Pass	AV	1.13537G	20.96	-	-	3	Vertical	360	1.50
7987.2MHz	Pass	AV	1.23781G	17.53	19.90	-2.37	3	Vertical	360	1.50
7987.2MHz	Pass	AV	1.89095G	15.97	41.90	-25.93	3	Vertical	360	1.50
7987.2MHz	Pass	AV	2.49983G	21.84	43.90	-22.06	3	Vertical	360	1.50
7987.2MHz	Pass	AV	973.52M	21.92	-	-	3	Horizontal	0	1.50
7987.2MHz	Pass	AV	999.75M	25.07	-	-	3	Horizontal	0	1.50
7987.2MHz	Pass	AV	1.04236G	23.83	-	-	3	Horizontal	0	1.50
7987.2MHz	Pass	AV	1.05916G	20.76	-	-	3	Horizontal	0	1.50
7987.2MHz	Pass	AV	1.13619G	13.85	19.90	-6.05	3	Horizontal	0	1.50
7987.2MHz	Pass	AV	1.23699G	13.26	19.90	-6.64	3	Horizontal	0	1.50
7987.2MHz	Pass	AV	2.49983G	21.91	43.90	-21.99	3	Horizontal	0	1.50
7987.2MHz	Pass	AV	1.17381G	-6.39	9.90	-16.29	3	Vertical	347	1.50
7987.2MHz	Pass	AV	1.18169G	-4.42	9.90	-14.32	3	Vertical	322	1.50
7987.2MHz	Pass	AV	1.21873G	-5.37	9.90	-15.27	3	Vertical	333	1.50
7987.2MHz	Pass	AV	1.17176G	-9.68	9.90	-19.58	3	Horizontal	37	1.93
7987.2MHz	Pass	AV	1.19314G	-10.33	9.90	-20.23	3	Horizontal	328	1.49
7987.2MHz	Pass	AV	1.21922G	-9.64	9.90	-19.54	3	Horizontal	259	1.48
7987.2MHz	Pass	AV	1.57427G	-10.30	9.90	-20.20	3	Vertical	30	1.91
7987.2MHz	Pass	AV	1.58454G	-11.27	9.90	-21.17	3	Vertical	104	1.50
7987.2MHz	Pass	AV	1.6G	6.39	9.90	-3.51	3	Vertical	215	1.78
7987.2MHz	Pass	AV	1.56688G	-13.26	9.90	-23.16	3	Horizontal	0	1.50
7987.2MHz	Pass	AV	1.57969G	-12.44	9.90	-22.34	3	Horizontal	52	1.50
7987.2MHz	Pass	AV	1.6G	-0.73	9.90	-10.63	3	Horizontal	136	1.50
Ultra Wide Band_Nss1,(HRP)_1TX(Port2)	-	-	-	-	-	-	-	-	-	-
7987.2MHz	Pass	AV	963.69M	24.90	-	-	3	Vertical	360	1.50
7987.2MHz	Pass	AV	999.75M	27.04	-	-	3	Vertical	360	1.50
7987.2MHz	Pass	AV	1.04031G	23.23	-	-	3	Vertical	360	1.50
7987.2MHz	Pass	AV	1.13701G	19.76	19.90	-0.14	3	Vertical	360	1.50
7987.2MHz	Pass	AV	1.88931G	16.10	41.90	-25.80	3	Vertical	360	1.50
7987.2MHz	Pass	AV	2.49983G	21.64	43.90	-22.26	3	Vertical	360	1.50
7987.2MHz	Pass	AV	963.28M	22.12	-	-	3	Horizontal	0	1.50
7987.2MHz	Pass	AV	999.75M	27.34	-	-	3	Horizontal	0	1.50
7987.2MHz	Pass	AV	1.02474G	21.74	-	-	3	Horizontal	0	1.50
7987.2MHz	Pass	AV	1.04933G	22.18	-	-	3	Horizontal	0	1.50
7987.2MHz	Pass	AV	1.6156G	10.61	41.90	-31.29	3	Horizontal	0	1.50
7987.2MHz	Pass	AV	2.45804G	15.80	43.90	-28.10	3	Horizontal	0	1.50
7987.2MHz	Pass	AV	2.49983G	22.39	43.90	-21.51	3	Horizontal	0	1.50
7987.2MHz	Pass	AV	1.17411G	-6.35	9.90	-16.25	3	Vertical	343	1.50
7987.2MHz	Pass	AV	1.18389G	-7.90	9.90	-17.80	3	Vertical	330	1.84
7987.2MHz	Pass	AV	1.21767G	-5.86	9.90	-15.76	3	Vertical	348	1.49
7987.2MHz	Pass	AV	1.17238G	-11.73	9.90	-21.63	3	Horizontal	11	1.50
7987.2MHz	Pass	AV	1.18873G	-10.43	9.90	-20.33	3	Horizontal	46	1.92
7987.2MHz	Pass	AV	1.21005G	-10.27	9.90	-20.17	3	Horizontal	265	1.50
7987.2MHz	Pass	AV	1.56361G	-11.13	9.90	-21.03	3	Vertical	173	1.50
7987.2MHz	Pass	AV	1.58195G	-9.81	9.90	-19.71	3	Vertical	11	1.77
7987.2MHz	Pass	AV	1.6G	4.16	9.90	-5.74	3	Vertical	270	1.78
7987.2MHz	Pass	AV	1.56669G	-12.06	9.90	-21.96	3	Horizontal	57	1.68
7987.2MHz	Pass	AV	1.5858G	-11.84	9.90	-21.74	3	Horizontal	19	1.50
7987.2MHz	Pass	AV	1.6G	-2.27	9.90	-12.17	3	Horizontal	151	1.67

*The frequencies mentioned in Comments and Explanations are not limited to this Limit.

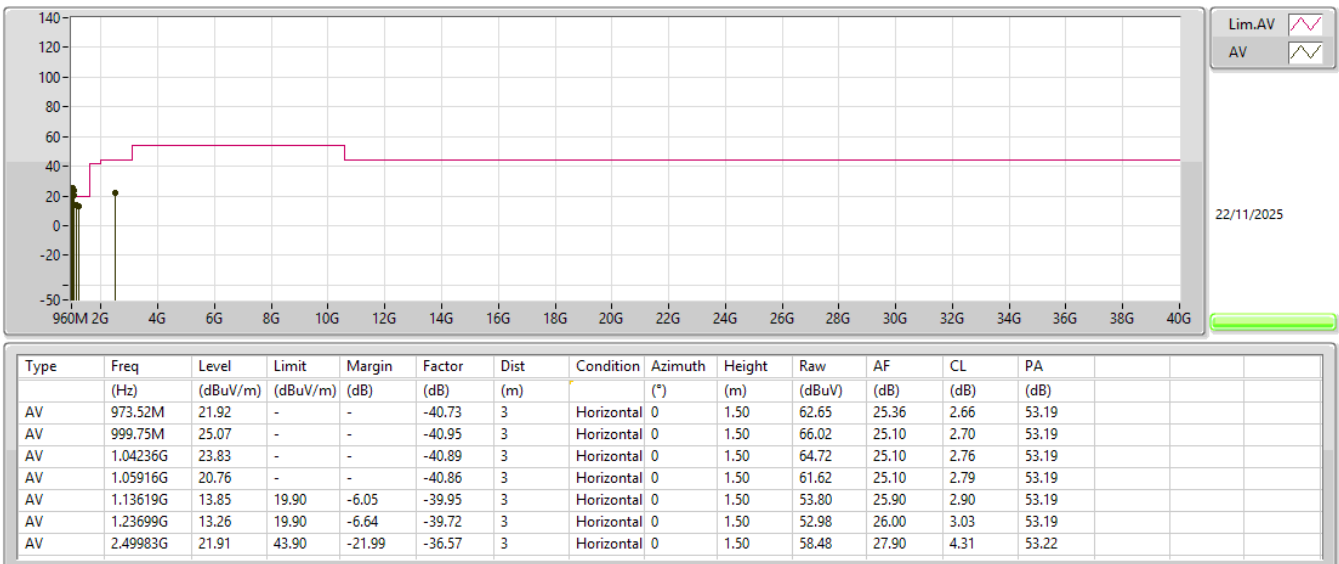
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port1)

7987.2MHz_TX



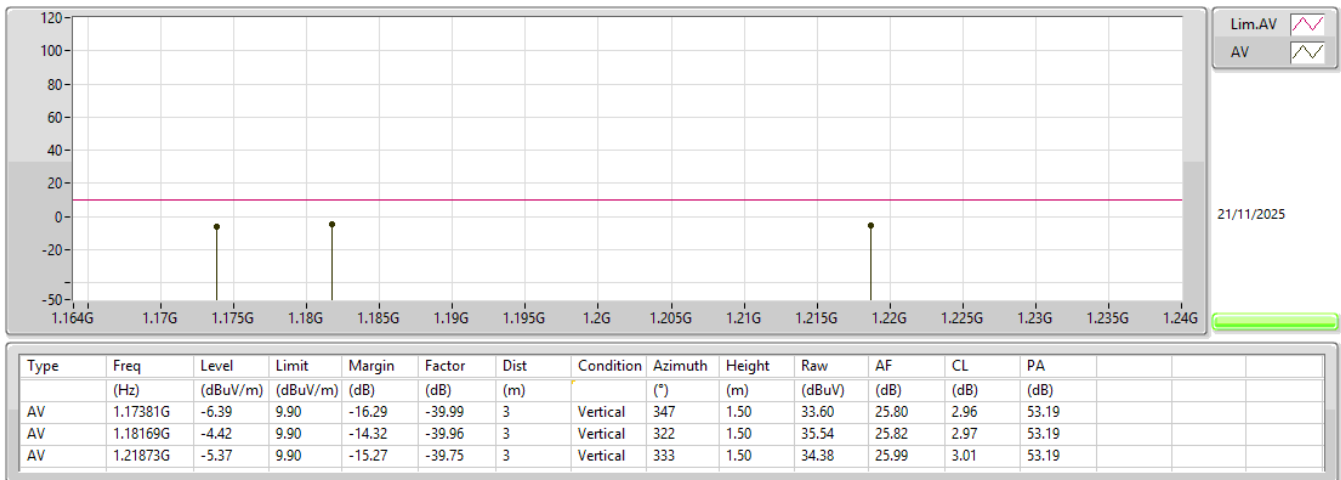
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port1)

7987.2MHz_TX



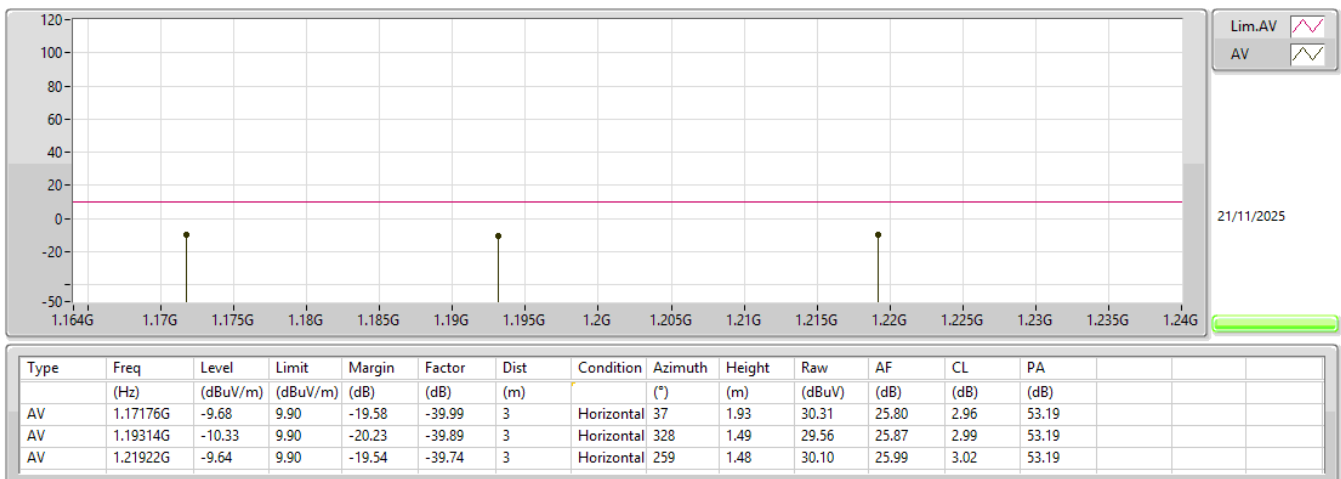
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port1)

7987.2MHz_TX



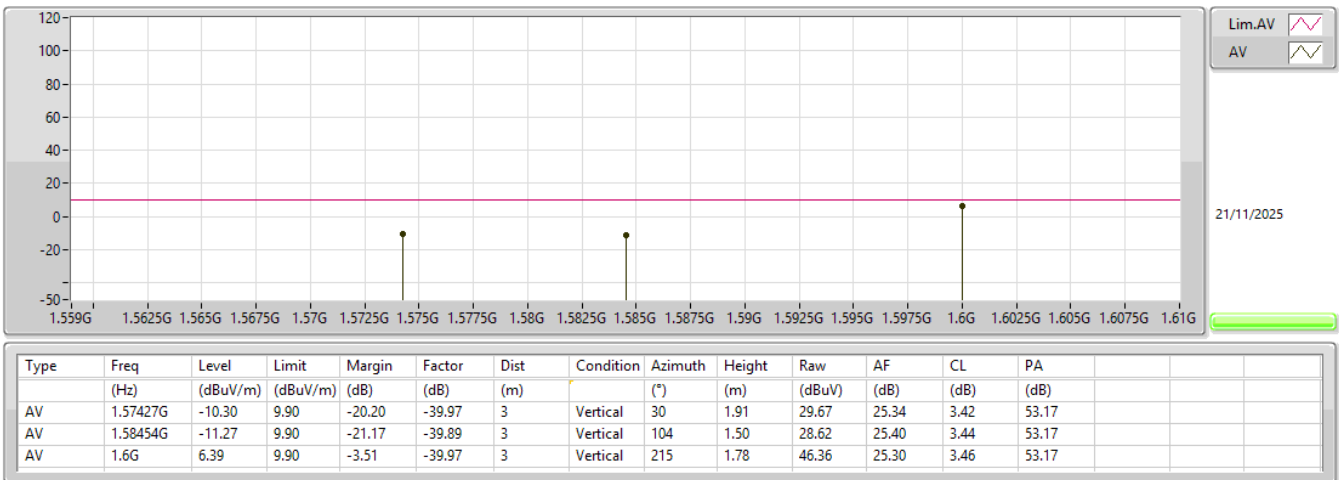
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port1)

7987.2MHz_TX



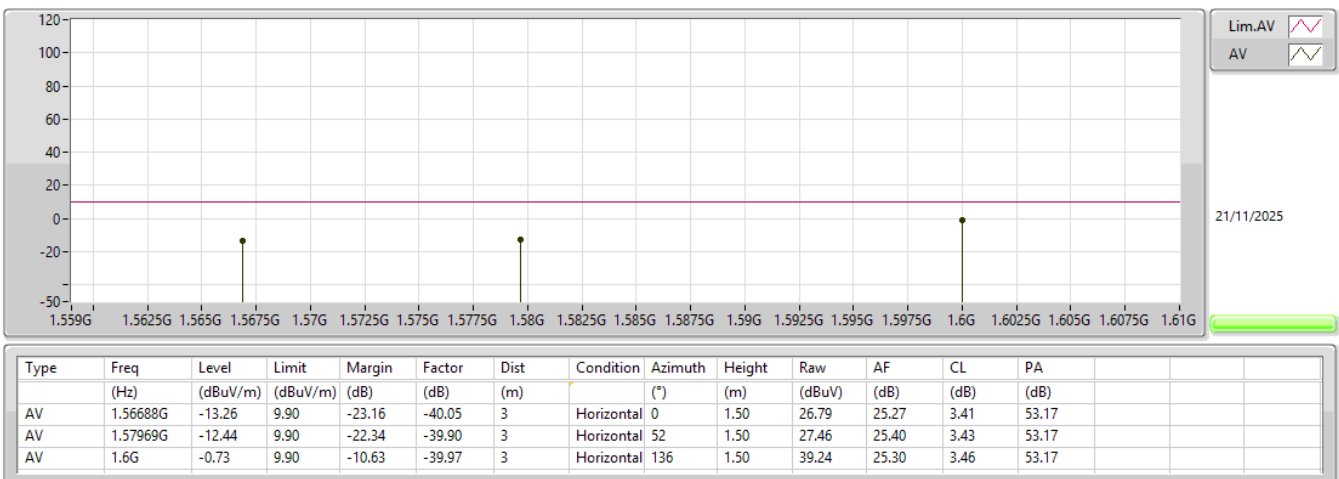
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port1)

7987.2MHz_TX



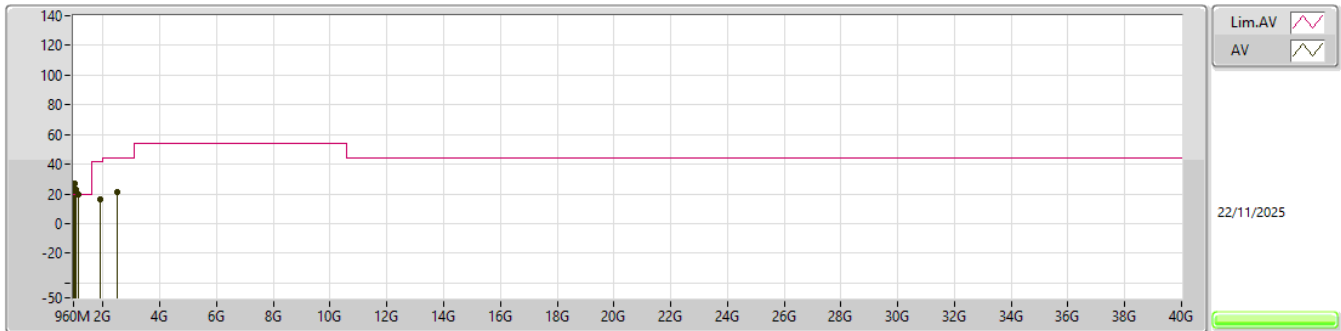
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port1)

7987.2MHz_TX



3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port2)

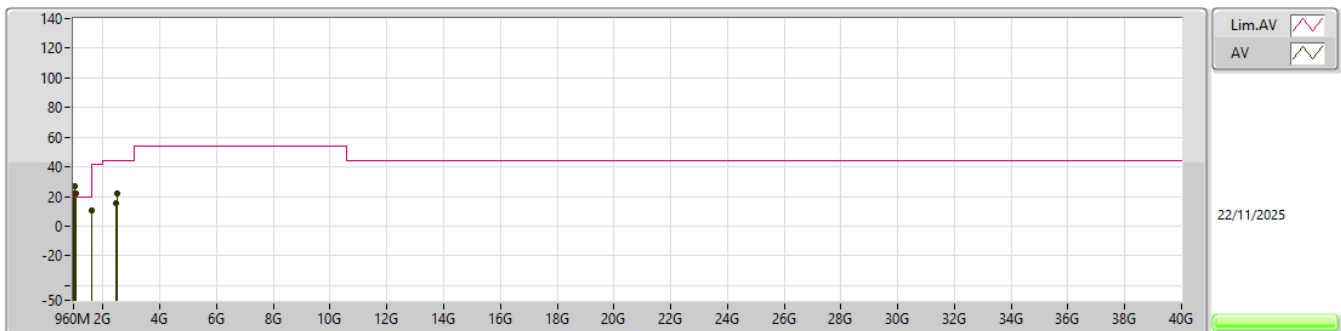
7987.2MHz_TX



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	963.69M	24.90	-	-	-40.64	3	Vertical	360	1.50	65.54	25.46	2.65	53.19
AV	999.75M	27.04	-	-	-40.95	3	Vertical	360	1.50	67.99	25.10	2.70	53.19
AV	1.04031G	23.23	-	-	-40.89	3	Vertical	360	1.50	64.12	25.10	2.76	53.19
AV	1.13701G	19.76	19.90	-0.14	-39.94	3	Vertical	360	1.50	59.70	25.90	2.91	53.19
AV	1.88931G	16.10	41.90	-25.80	-39.27	3	Vertical	360	1.50	55.37	25.70	3.74	53.15
AV	2.49983G	21.64	43.90	-22.26	-36.57	3	Vertical	360	1.50	58.21	27.90	4.31	53.22

3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port2)

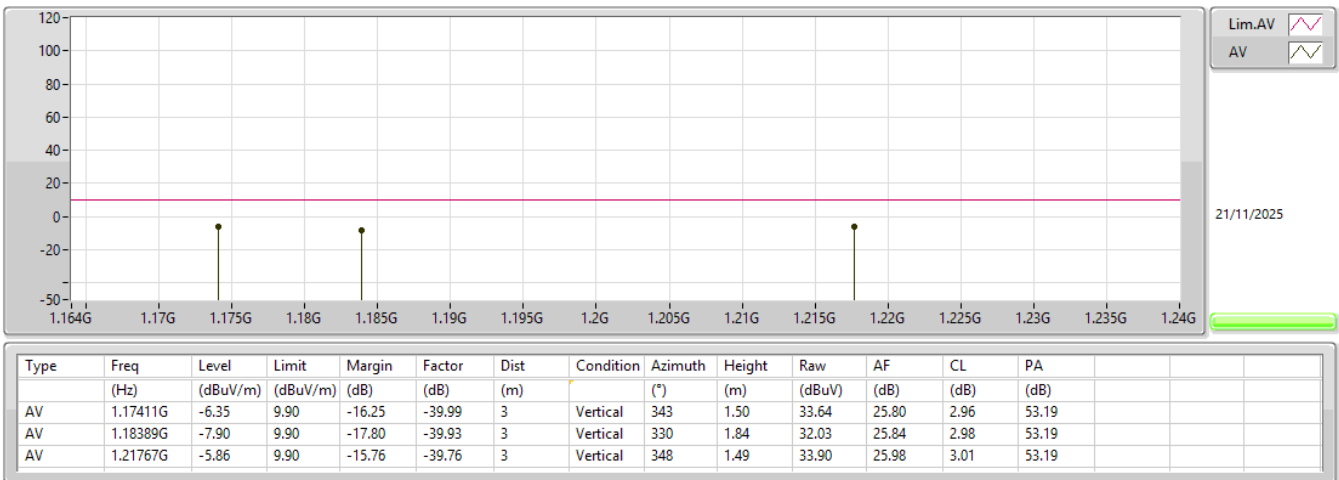
7987.2MHz_TX



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	963.28M	22.12	-	-	-40.64	3	Horizontal	0	1.50	62.76	25.47	2.64	53.19
AV	999.75M	27.34	-	-	-40.95	3	Horizontal	0	1.50	68.29	25.10	2.70	53.19
AV	1.02474G	21.74	-	-	-40.86	3	Horizontal	0	1.50	62.60	25.15	2.74	53.19
AV	1.04933G	22.18	-	-	-40.88	3	Horizontal	0	1.50	63.06	25.10	2.77	53.19
AV	1.6156G	10.61	41.90	-31.29	-39.90	3	Horizontal	0	1.50	50.51	25.36	3.47	53.17
AV	2.45804G	15.80	43.90	-28.10	-36.88	3	Horizontal	0	1.50	52.68	27.60	4.29	53.21
AV	2.49983G	22.39	43.90	-21.51	-36.57	3	Horizontal	0	1.50	58.96	27.90	4.31	53.22

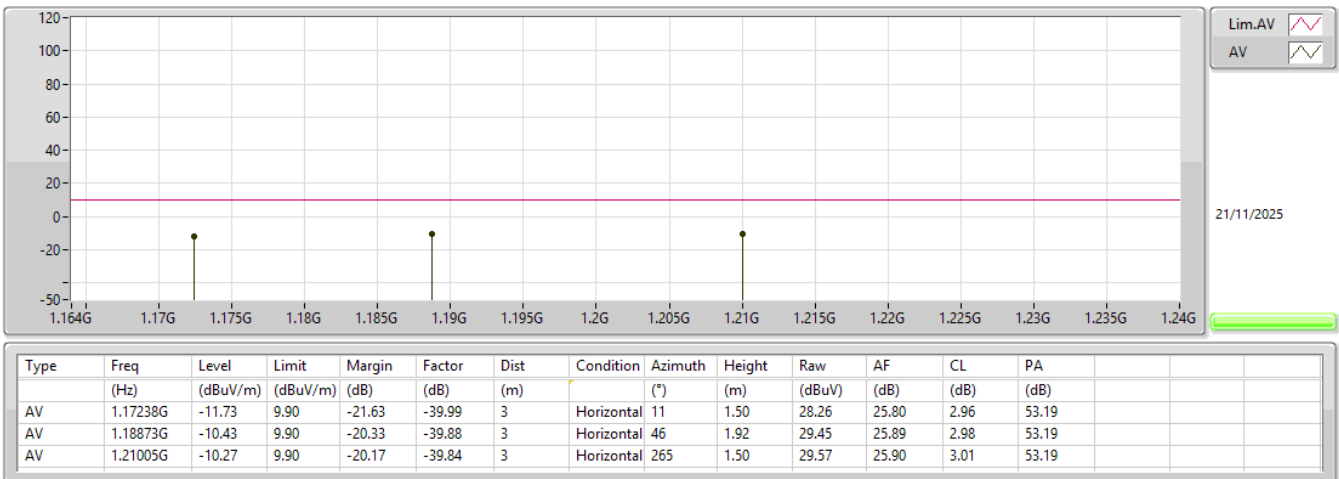
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port2)

7987.2MHz_TX



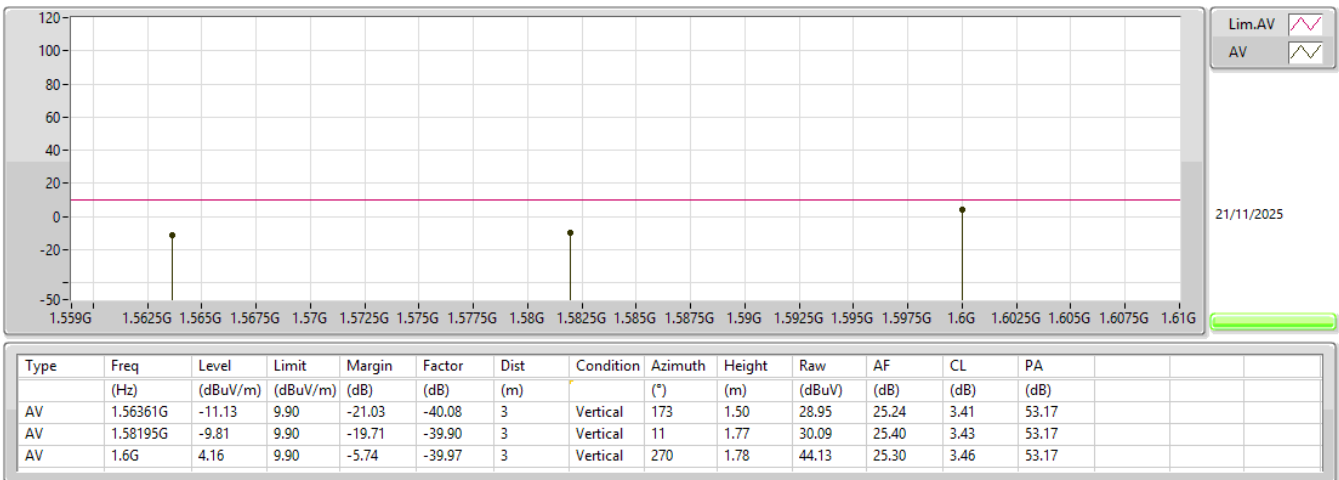
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port2)

7987.2MHz_TX



3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port2)

7987.2MHz_TX



3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port2)

7987.2MHz_TX

