

Report on the Testing of the

Landis + Gyr Technology, Inc.

N501

In accordance with:
FCC 47 CFR part 15.247
ISED RSS-247 Issue 4, July 2025

Prepared for: Landis + Gyr Technology, Inc.
2800 Duncan Rd
Lafayette, Indiana 47904 USA



America

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Yves-Thierry Jean-Charles	Senior Engineer TUV SUD America Inc.	Authorized Signatory	9/24/2026

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FCC Accreditation Designation Number US1233
FCC Test Site Registration Number 967699
Innovation, Science, and Economic Development Canada Lab Code 23932

EXECUTIVE SUMMARY

A sample of this product was tested and found to be compliant with the standards listed above.



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1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Table 1.1-1 – Modification Record

Issue	Description of Change	Date of Issue
0	First Issue	9/22/2026
1	Second Issue – Updated section 1.2	9/24/2026

1.2 Introduction

The purpose of this report is to demonstrate compliance with Part 15 Subpart C of the FCC's Code of Federal Regulations Section 15.247 and Innovation Science and Economic Development Canada's Radio Standards Specification RSS-247 for the tests documented herein to support a Class II Permissive Change. The purpose of this Class II Permissive Change is to address the addition of a new discrete in-line filter to enhance the module's ESD immunity on the host board.

Applicant	Raghav Goteti
Manufacturer	Landis + Gyr Technology, Inc
Applicant's Email Address	raghav.goteti@landisgyr.com
Model Number(s)	N501
Serial Number(s)	LAN ID: 91622B80
Module FCC ID	R7PNG0R1S5
Module ISED Certification Number	5294A-NG0R1S5
Hardware Version(s)	26-2548
Software Version(s)	21.93
Number of Samples Tested	1
Test Specification/Issue/Date	US Code of Federal Regulation (CFR): Title 47, Part 15, Subpart C: Radio Frequency Devices, Intentional Radiators, 2026 RSS-247 — Digital Transmission Systems, Frequency Hopping Systems and Licence-Exempt Local Area Network Devices in 902-928 MHz, 2400-2483.5 MHz, 5150-5350 MHz, and 5470-5895 MHz bands, Issue 4, July 2025
Order Number	721022545
Date of Receipt of EUT	7/27/2026
Start of Test	7/27/2026



Finish of Test

7/28/2026

Related Document(s)

ANSI C63.10-2020: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Device.

FCC OET KDB 558074 D01 15.247 Meas Guidance v05r02: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under Section 15.247 of the FCC Rules, April 2, 2019

US Code of Federal Regulations (CFR): Title 47, Part 2, Subpart J: Equipment Authorization Procedures, 2024.

ISED Canada Radio Standards Specification: RSS-GEN – General Requirements for Compliance of Radio Apparatus, Issue 5, Amendment 1 (March 2019), Amendment 2 (February 2021)



1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC Part 15.247 and ISED Canada's RSS-247 is shown below.

Table 1.3-1: Test Result Summary

Test Parameter	Test Plan (Yes/No)	Test Result	FCC 47 CFR Rule Part	ISED Canada's RSS	Test Report Page No
Antenna Requirement	Yes	Pass	15.203	-----	11
Carrier Frequency Separation	No	Not Tested	15.247(a)(1)	RSS-247 5.1(b)	-----
Number of Hopping Channels	No	Not Tested	15.247(a)(1)(i)	RSS-247 5.1(c)	-----
Channel Dwell Time (FHSS / Hybrid)	No	Not Tested	15.247(a)(1)(i) 15.247(f)	RSS-247 5.1(c) RSS-247 5.3(a)	-----
20 dB Bandwidth	No	Not Tested	15.247(a)(1)(i)	RSS-247 5.1(c)	-----
99% Bandwidth	No	Not Tested	-----	RSS-GEN 6.7	-----
Peak Output Power	No	Not Tested	15.247(b)(2)	RSS-247 5.4(a)	-----
Avg Output Power (Hybrid)	No	Not Tested	15.247(b)(3)	RSS-247 5.4(a)	-----
Band-Edge Compliance of RF Conducted Emissions	No	Not Tested	15.247(d)	RSS-247 5.5	-----
RF Conducted Spurious Emissions	No	Not Tested	15.247(d)	RSS-247 5.5	-----
Radiated Spurious Emissions into Restricted Frequency Bands	Yes	Pass	15.205, 15.209	RSS-GEN 8.9, 8.10	15
Power Spectral Density (Hybrid)	No	Not Tested	15.247(e)	RSS-247 5.2(b)	-----
Power Line Conducted Emissions	Yes	Pass	15.207	RSS-GEN 8.8	12
Duty Cycle	No	-----			-----

1.4 Product Information

1.4.1 Technical Description

The N501 is a radio within the Landis & Gyr inside series. It supports half-duplex operation in Sub-GHz band 902 MHz to 928MHz ISM band. It can be integrated into metering, sensor, and controller products, allowing a wide range of devices to communicate on the Landis & Gyr radio Network.

Table 1.4.1-1 – Wireless Technical Information

Detail	Description
Module FCC ID	R7PNG0R1S5
Module IC ID	5294A-NG0R1S5
Transceiver Model #	N501
Modulation Format	FSK
*Antenna Type / Description:	Airgain ET960NPMR2 Rigid Dipole Antenna / 5.7 dBi

*Note: Antenna information declared by the customer.

A full description and detailed product specification details are available from the manufacturer.



Figure 1.4.1-1 –Front View of the EUT

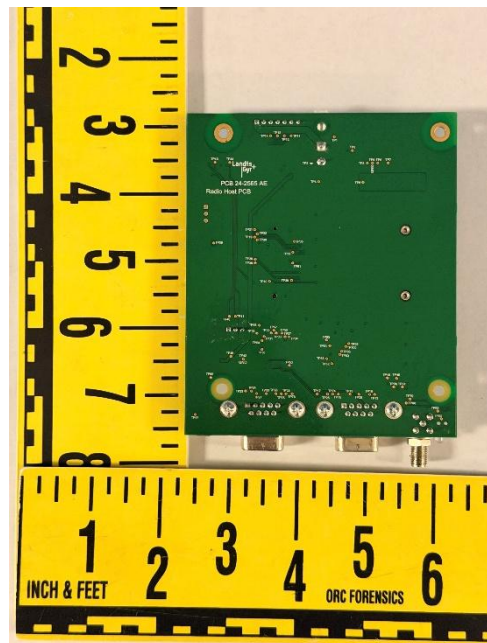


Figure 1.4.1-2 – Rear View of the EUT

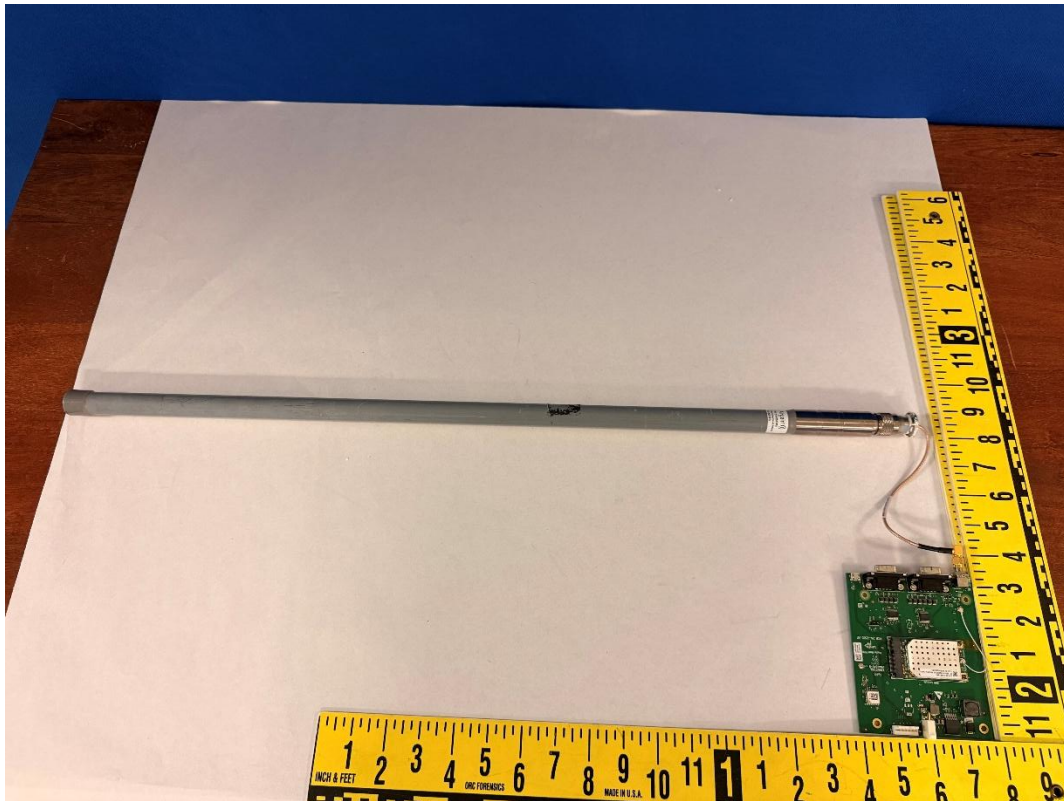


Figure 1.4.1-3 –EUT with Dipole Antenna

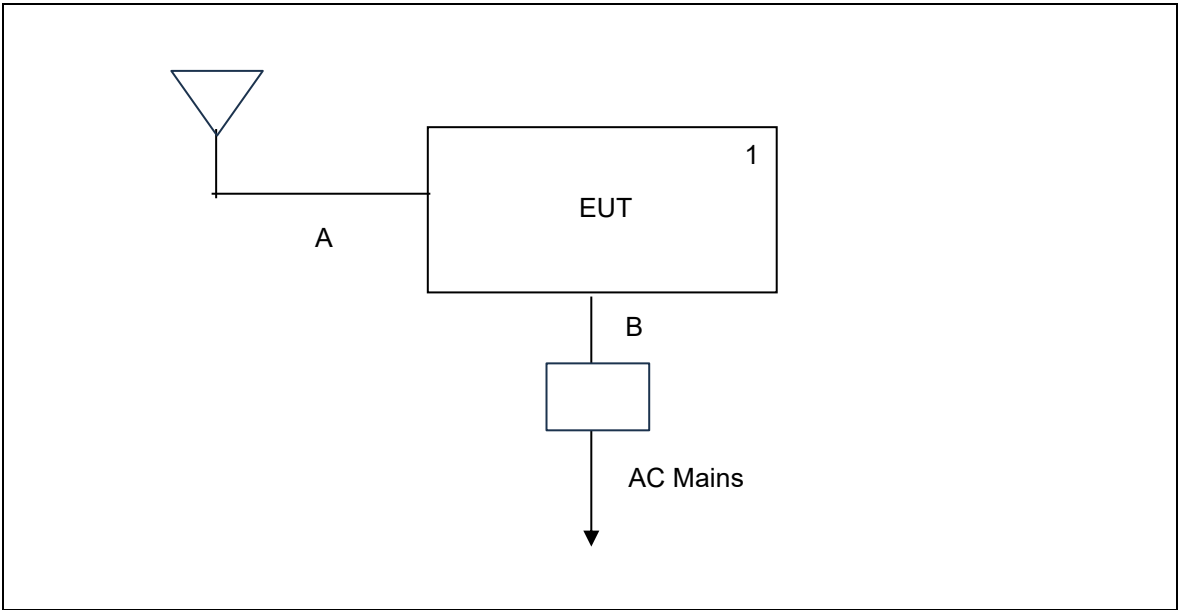


Figure 1.4.1-4 – Test Setup Block Diagram

Table 1.4.1-2 – Cable Descriptions

Item	Cable/Port	Description
A	U.FL Cable	Antenna connected to PCB Board
B	Power Supply Cable	Power Supply connected to AC Main

Table 1.4.1-3 – Support Equipment Descriptions

Item	Make/Model	Description
1	N501	Evaluation Board (N501)



1.4.2 Modes of Operation

The model N501 provides 3 distinct frequency hopping modes of operation as outlined below.

Mode of Operation	Frequency Range (MHz)	Number of Channels	Channel Separation (kHz)	Data Rates Supported (kbps)
1	902.3 - 927.8	86	300	9.6, 19.2, 38.4, 115.2
2	904.0 - 927.8	239	100	9.6, 19.2, 38.4
3	902.4 - 927.6	64	400	50.0, 150.0, 200.0

1.4.3 Monitoring of Performance

For radiated emissions, the EUT was evaluated in three orthogonal orientations. The worst-case orientation was Y-position. See test setup photos for more information. The EUT was programmed to generate a continuously modulated signal on each channel evaluated.

Radiated emissions were evaluated on Mode 1 for the worst data rate 9.6 kbps for all three channels, please refer to the AT721056409-1C0 test report for the conducted antenna port measurement data.

AC Power Line conducted emissions were performed with the module integrated on a representative host PCB.

1.5 Deviations from the Standard

No deviations from the applicable test standard were made during testing.

1.6 EUT Modification Record

The table below details modifications made to the EUT during the test program. The modifications incorporated during each test are recorded on the appropriate test pages.

Modification State	Description of Modification still fitted to EUT	Modification Fitted By	Date Modification Fitted
0	Initial State		

The equipment was tested as provided without any modifications.



1.7 Test Location

TÜV SÜD conducted the following tests at our Alpharetta, GA test laboratory.

Test Name	Name of Engineer(s)	Accreditation
Antenna Requirement	Bhagyashree Chaudhary	A2LA
Power Line Conducted Emissions	Bhagyashree Chaudhary	A2LA
Radiated Spurious Emissions into Restricted Frequency Bands	Bhagyashree Chaudhary	A2LA

Office address:
TÜV SÜD America
5945 Cabot Parkway, Suite 100
Alpharetta, GA 30005, USA



2 Test Details

2.1 Antenna Requirement

2.1.1 Specification Reference

FCC Section: 15.203, 15.204

2.1.2 Equipment Under Test and Modification State

As shown in §1.4 with modification state "0", as noted in §1.6.

2.1.3 Date of Test

7/27/2026

2.1.4 Test Method

N/A

2.1.5 Environmental Conditions

N/A

2.1.6 Test Results

The external antenna is an Airgain ET960NPMR2 Rigid Dipole Antenna with 5.7dBi gain and is connected to the board via a U.FL coaxial RF connector, therefore satisfying the requirements of Section 15.203.



2.2 Power Line Conducted Emissions

2.2.1 Specification Reference

FCC Section: 15.207
ISED Canada: RSS-Gen 8.8

2.2.2 Equipment Under Test and Modification State

As shown in §1.4 with modification state "0", as noted in §1.6.

2.2.3 Date of Test

7/28/2026

2.2.4 Test Method

ANSI C63.10 section 6 was the guiding documents for this evaluation. Conducted emissions were performed from 150kHz to 30MHz with the spectrum analyzer's resolution bandwidth set to 9kHz and the video bandwidth set to 30kHz. The calculation for the conducted emissions is as follows:

$$\text{Corrected Reading} = \text{Analyzer Reading} + \text{LISN Loss} + \text{Cable Loss}$$

$$\text{Margin} = \text{Corrected Reading} - \text{Applicable Limit}$$

2.2.5 Environmental Conditions

The EUT was evaluated within the temperature, humidity and pressure range of the EUT as specified by the standard. The laboratory shall have an ambient temperature range of 15°C to 35°C, relative humidity range of 30% to 60% and atmospheric pressure range of 86 kPa to 106 kPa.

Ambient Temperature 22.8 °C
Relative Humidity 54.1 %
Atmospheric Pressure 972.8 mbar

2.2.6 Test Results

Table 2.2.6-1: Conducted EMI Results-Avg – Line 1

Frequency (MHz)	Avg Limit (dBuV)	Avg Level Corr (dBuV)	Avg Level (dBuV)	Corr Fact. (dB)	Avg Margin (dB)	Result
0.15	56	23.4	13.8	9.607	-32.6	PASS
0.55	46	31.2	21.6	9.595	-14.8	PASS
0.62	46	32.5	22.9	9.596	-13.5	PASS
0.92	46	30.2	20.6	9.612	-15.8	PASS
1.23	46	32.6	23	9.619	-13.4	PASS
1.91	46	32.7	23.1	9.639	-13.3	PASS

**Table 2.2.6-2: Conducted EMI Results-QP – Line 1**

Frequency (MHz)	QP Limit	QP Level Corrected	QP Level	Correction Fact.	QP Margin	Result
0.15	66	52.7	43.1	9.607	-13.3	PASS
0.55	56	33.9	24.3	9.595	-22.1	PASS
0.62	56	33.8	24.2	9.596	-22.2	PASS
0.92	56	33.7	24.1	9.612	-22.3	PASS
1.23	56	34.9	25.3	9.619	-21.1	PASS
1.91	56	35.2	25.6	9.639	-20.8	PASS

Table 2.2.6-3: Conducted EMI Results-Avg – Line 2

Frequency (MHz)	Avg Limit (dBuV)	Avg Level Corr (dBuV)	Avg Level (dBuV)	Corr Fact. (dB)	Avg Margin (dB)	Result
0.15	56	23.5	13.9	9.596	-32.5	PASS
0.5	46.1	31.8	22.2	9.584	-14.4	PASS
0.55	46	28.8	19.2	9.586	-17.2	PASS
0.62	46	33.7	24.1	9.588	-12.3	PASS
0.86	46	31.5	21.9	9.608	-14.5	PASS
0.92	46	29.8	20.2	9.61	-16.2	PASS

Table 2.2.6-4: Conducted EMI Results-QP – Line 2

Frequency (MHz)	QP Limit (dBuV)	QP Level Corr (dBuV)	QP Level (dBuV)	Corr Fact. (dB)	QP Margin (dB)	Result
0.15	66	52.8	43.2	9.596	-13.2	PASS
0.5	56.1	33.4	23.8	9.584	-22.7	PASS
0.55	56	32.4	22.8	9.586	-23.6	PASS
0.62	56	34.9	25.3	9.588	-21.1	PASS
0.86	56	34.1	24.5	9.608	-21.9	PASS
0.92	56	33.7	24.1	9.61	-22.3	PASS



FCC Part 15 Subpart B Class C

Conducted RF Emissions, 150 kHz to 30 MHz

Line Under Test Number 1 Results

EUT Name - 721022545 L+G
Model Number - N501
Part Number - N/A
Serial Number - N/A
Voltage - 120Vac/60Hz
Operating Mode - Powered ON; 902.3MHz radio on

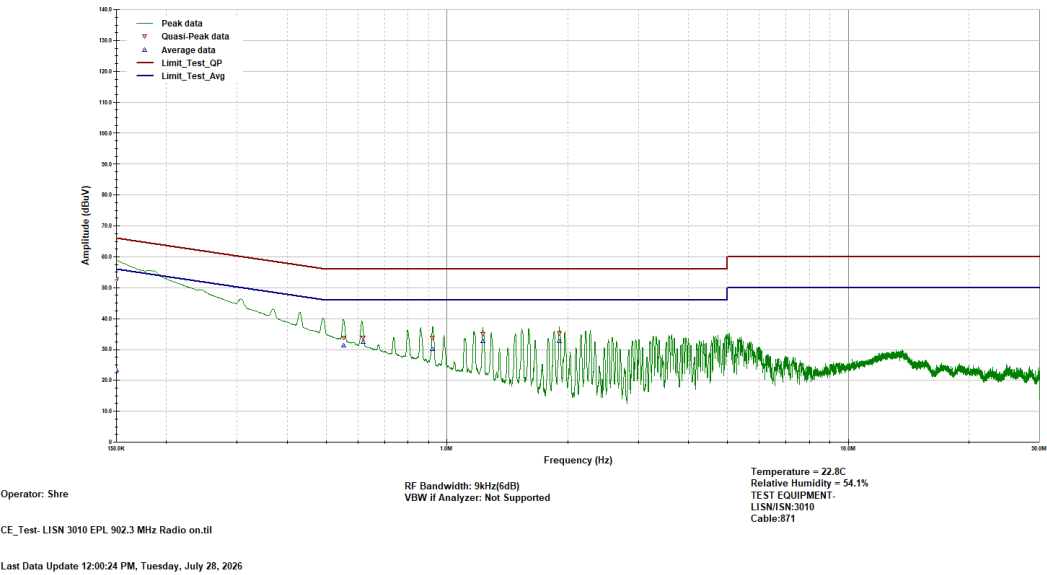


Figure 1: Conducted Emission Plot – Line 1

FCC Part 15 Sub Part B Class C

Conducted RF Emissions, 150 kHz to 30 MHz

Line Under Test Number 2 Results

EUT Name - 721022545 L+G
Model Number - N501
Part Number - N/A
Serial Number - N/A
Voltage - 120Vac/60Hz
Operating Mode - Powered ON; 902.3MHz radio on

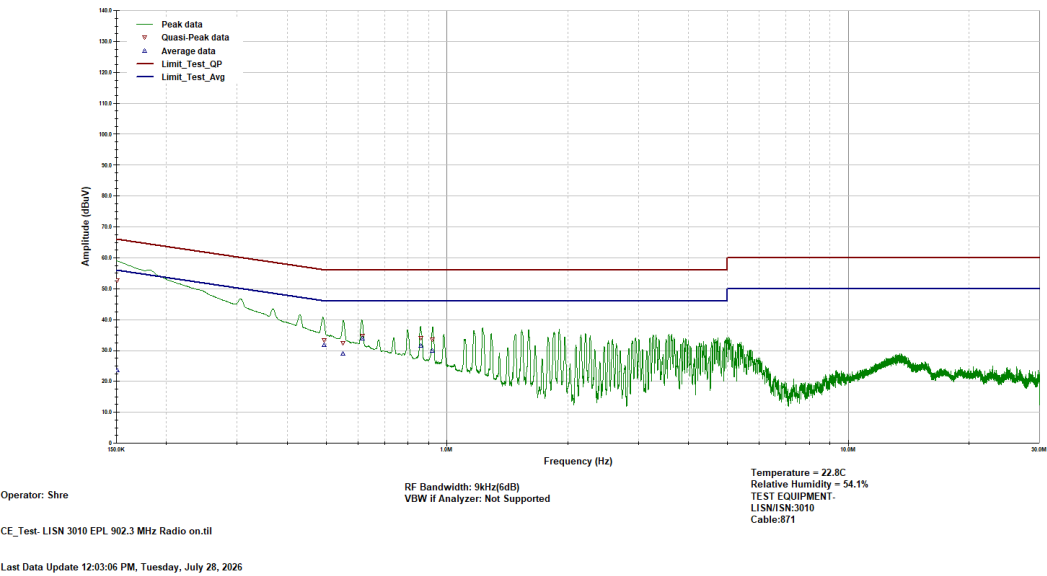


Figure 2: Conducted Emission Plot – Nuetral



2.3 Radiated Spurious Emissions into Restricted Frequency Bands

2.3.1 Specification Reference

FCC Sections: 15.205, 15.209.
ISED Canada: RSS – Gen 8.9/8.10

2.3.2 Equipment Under Test and Modification State

As shown in §1.4 with modification state “0”, as noted in §1.6.

2.3.3 Date of Test

07/27/2026 to 07/28/2026

2.3.4 Test Method

Radiated emissions tests were made over the frequency range of 9 kHz to 10 GHz, 10 times the highest fundamental frequency of 900 MHz. Each emission found to be in a restricted band as defined by section 15.205, including any emission at the operational band-edge, was compared to the radiated emission limits as defined in Section 15.209.

The EUT was rotated through 360° and the receive antenna height was varied from 1m to 4m so that the maximum radiated emissions level would be detected. For frequencies below 150 kHz, quasi-peak measurements were made using a resolution bandwidth RBW of CISPR 200 Hz and a video bandwidth VBW of 1 kHz and frequencies between 150 kHz and 30MHz, quasi-peak measurements were made using a resolution bandwidth RBW of CISPR 9 kHz and a video bandwidth VBW of 30 kHz. For frequencies between 30 MHz and 1000 MHz, quasi-peak measurements were made using a resolution bandwidth RBW of 120 kHz and a video bandwidth VBW of 300 kHz. For frequencies above 1000 MHz, peak and average measurements were made with RBW of 1 MHz and VBW of 3 MHz.

Measurements up to 10 GHz were done using Tile7 (Version 7.7.2.4) automated software. Reported level is the actual level with all the correction factors factored in.

2.3.5 Environmental Conditions

The EUT was evaluated within the temperature, humidity and pressure range of the EUT as specified by the standard. The laboratory shall have an ambient temperature range of 15°C to 35°C, relative humidity range of 30% to 60% and atmospheric pressure range of 86 kPa to 106 kPa.

Ambient Temperature	22.8 °C
Relative Humidity	54.1 %
Atmospheric Pressure	972.8 mbar



2.3.6 Test Results

Test Summary: EUT was set to transmit mode with 100% duty cycle.

Test Results: Pass

See data below for detailed results.

Table 2.3.6-1: Radiated Spurious Emissions Tabulated Data

Frequency	Peak Value	QP/Avg Value	Peak Limit	QP/Avg Limit	Peak Margin	QP/Avg Margin	Polarity	Peak Limit Results	QP/Avg Limit Results
MHz	dBμV/m	dBμV/m	dBμV/m	dBμV/m	dB	dB	H/V	Pass/Fail	Pass/Fail
LCH – 902.3MHz									
2706.9	49.237	38.537	74	54	-24.76	-15.46	H	PASS	PASS
3609.1	49.771	34.91	74	54	-24.23	-19.09	H	PASS	PASS
4511.575	50.455	34.857	74	54	-23.55	-19.14	H	PASS	PASS
5413.8	49.903	35.818	74	54	-24.1	-18.18	H	PASS	PASS
2706.775	47.24	33.318	74	54	-26.76	-20.68	V	PASS	PASS
3609.425	50.234	34.959	74	54	-23.77	-19.04	V	PASS	PASS
4511.3	49.316	34.917	74	54	-24.68	-19.08	V	PASS	PASS
5413.875	50.702	35.865	74	54	-23.3	-18.13	V	PASS	PASS
MCH – 915 MHz									
2745	49.817	38.713	74	54	-24.18	-15.29	H	PASS	PASS
3660.15	49.622	35.065	74	54	-24.38	-18.94	H	PASS	PASS
4574.95	49.143	34.615	74	54	-24.86	-19.39	H	PASS	PASS
9150	55.079	41.41	74	54	-18.92	-12.59	H	PASS	PASS
2745.05	48.941	36.033	74	54	-25.06	-17.97	V	PASS	PASS
3660.075	49.727	35.078	74	54	-24.27	-18.92	V	PASS	PASS
4575.15	49.008	34.639	74	54	-24.99	-19.36	V	PASS	PASS
9150.075	55.688	41.463	74	54	-18.31	-12.54	V	PASS	PASS
HCH – 927.8 MHz									
2783.35	48.954	37.047	74	54	-25.05	-16.95	H	PASS	PASS
3711.025	48.434	33.536	74	54	-25.57	-20.46	H	PASS	PASS
4639.05	51.15	36.299	74	54	-22.85	-17.7	H	PASS	PASS
2783.15	48.679	34.058	74	54	-25.32	-19.94	V	PASS	PASS
3711.325	47.914	33.568	74	54	-26.09	-20.43	V	PASS	PASS
4639	50.936	36.312	74	54	-23.06	-17.69	V	PASS	PASS

Duty Cycle 100% is observed.

Sample Calculation:

$$R_C = R_U + CF_T$$

Where:

CF_T	=	Total Correction Factor (AF+CA+AG)+DC (Average Measurements Only)
R_U	=	Uncorrected Reading
R_C	=	Corrected Level
AF	=	Antenna Factor
CA	=	Cable Attenuation
AG	=	Amplifier Gain
DC	=	Duty Cycle Correction Factor

Example Calculation: Peak

Corrected Level: $49.579 + (-0.342) = 49.237 \text{ dB}\mu\text{V/m}$

Margin: $74 \text{ dB}\mu\text{V/m} - 49.237 \text{ dB}\mu\text{V/m} = 24.76 \text{ dB}$

Example Calculation: Average

Corrected Level: $38.879 + (-0.342) + 0 = 38.537 \text{ dB}\mu\text{V}$

Margin: $54 \text{ dB}\mu\text{V} - 38.537 \text{ dB}\mu\text{V} = 15.46 \text{ dB}$

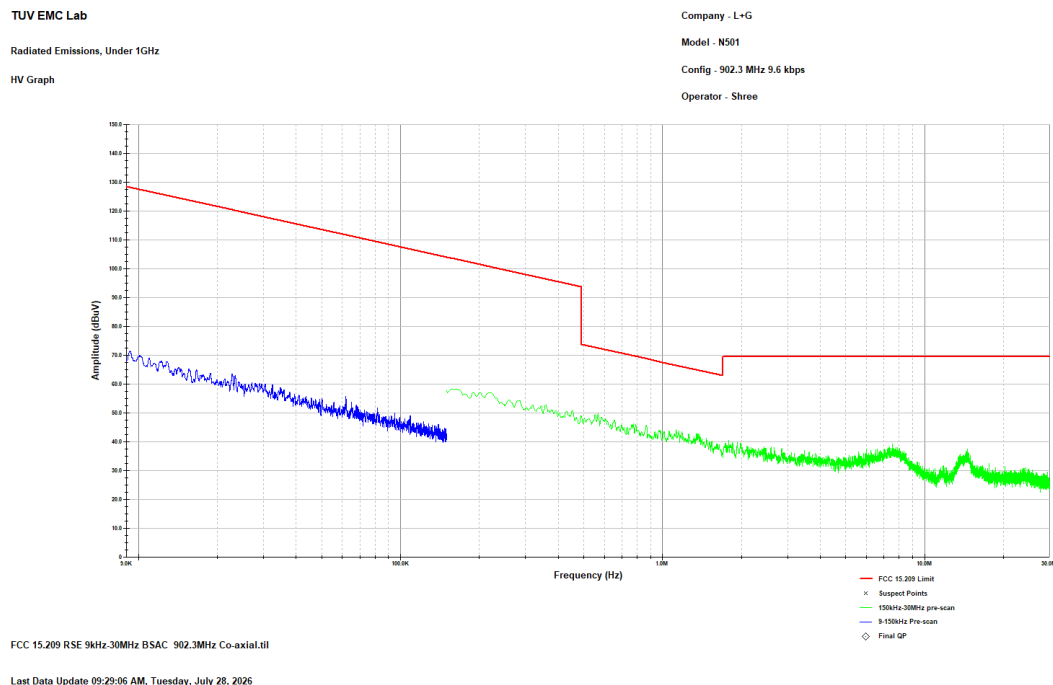


Figure 1: Reference plot for Radiated Spurious Emissions – 9 kHz – 30 MHz – Co-axial – LCH

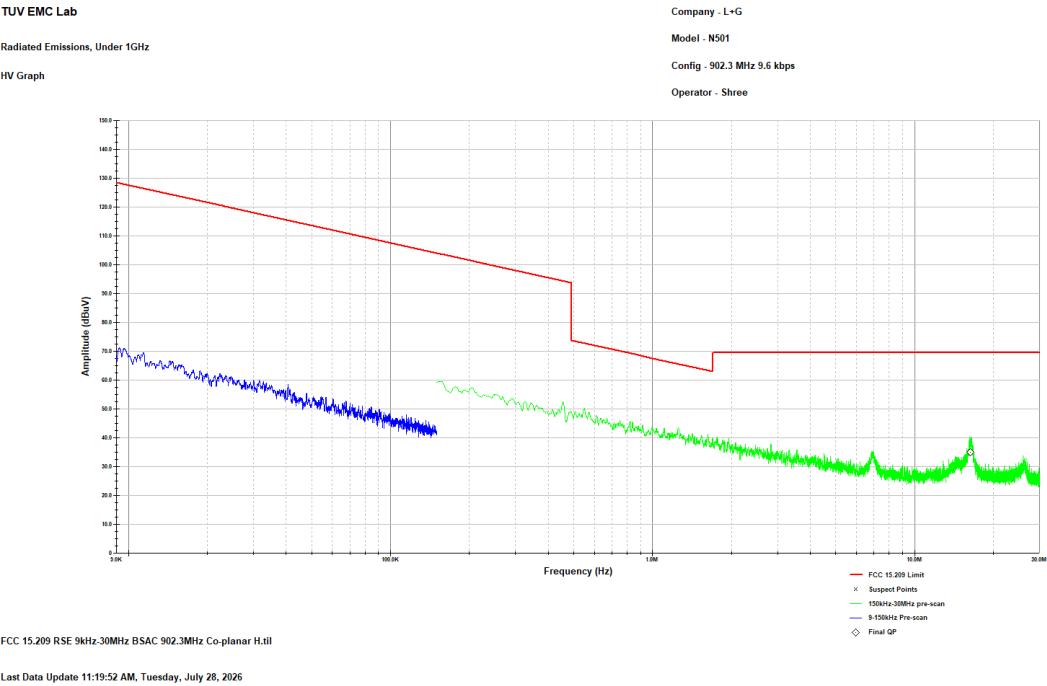


Figure 2: Reference plot for Radiated Spurious Emissions– 9 kHz – 30 MHz – Co-Planar Horizontal – LCH

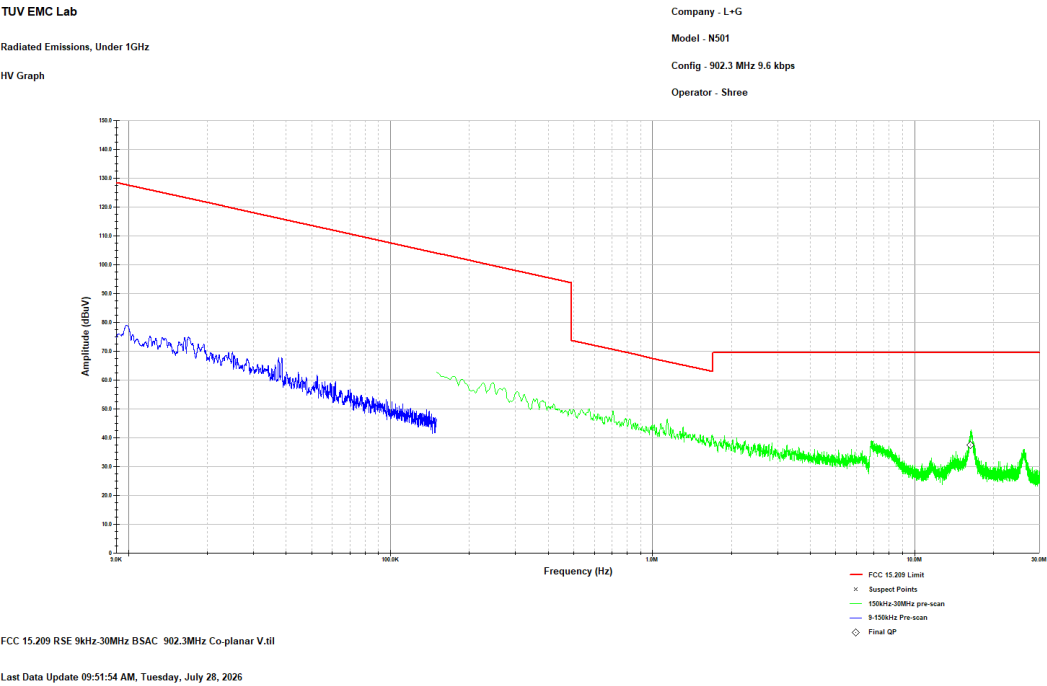




Figure 3: Reference plot for Radiated Spurious Emissions– 9 kHz – 30 MHz – Co-Planar Vertical - LCH

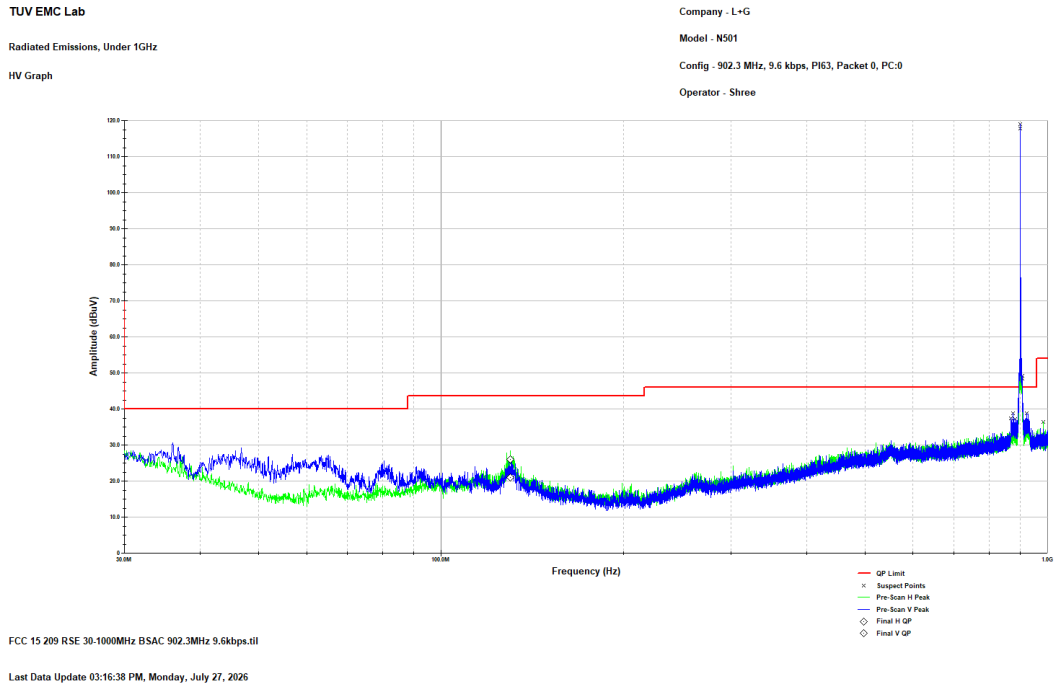


Figure 4: Reference plot for Radiated Spurious Emissions – 30 MHz – 1 GHz - LCH

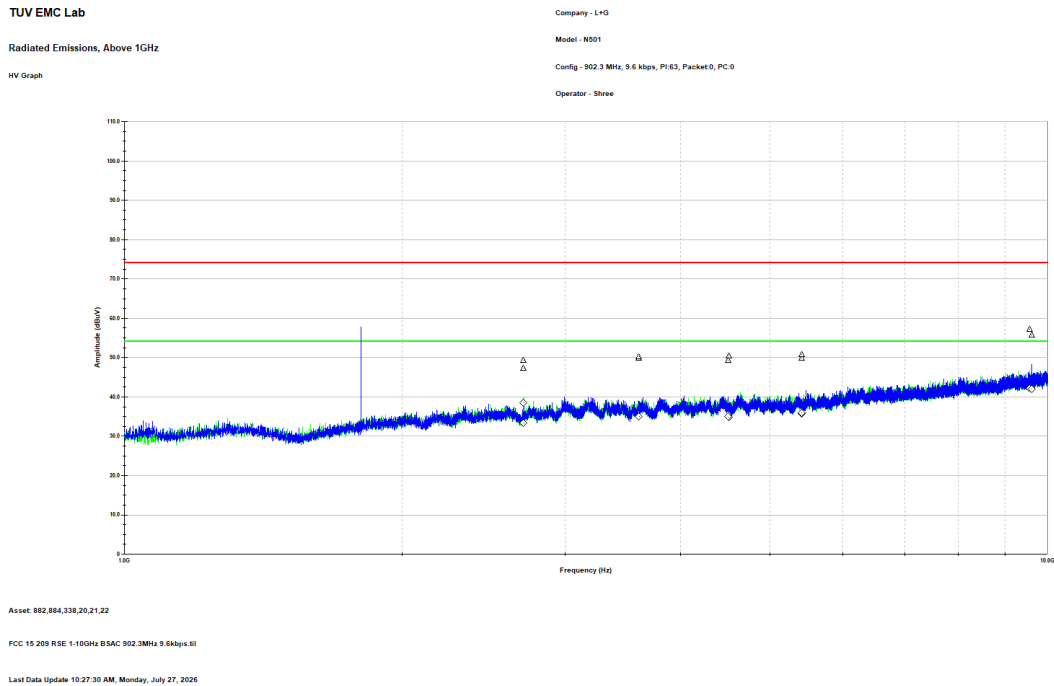


Figure 5: Reference plot for Radiated Spurious Emissions – 1 GHz – 10 GHz - LCH

Note: Only emissions within restricted band were evaluated.



2.4 Test Equipment Used

Table 2.4-1 –Equipment List

Asset ID	Manufacturer	Model	Equipment Type	Serial Number	Last Calibration Date	Calibration Due Date
AEMC3155	Com Power	AI-130R	Loop Antenna	10160004	05/07/2025	05/07/2027
AEMC00853	Teseq	CBL6112D	BiLog Antenna	51616	08/07/2025	08/07/2027
AEMC00884	ETS Lindgren (EMCO)	3117	DOUBLE-RIDGED GUIDE ANTENNA	240106	05/22/2025	05/22/2027
AEMC0889	Com Power	PAM 103	Pre-amplifier	18020215	09/30/2025	09/30/2026
AEMC00338	Hewlett Packard	8449B	High Frequency Pre-Amp	3008A01111	07/07/2026	07/07/2027
AEMC00882	Rohde & Schwarz	ESW44	ESW44 EMI TEST RECEIVER	101961	05/27/2026	05/27/2027
AEMC12347	Teledyne Storm Microwave	90-195-456	BSAC Cable	N/A	06/12/2026	06/12/2027
AEMC00020	Teledyne Storm Microwave	R-90-195-036	BSAC Cable	N/A	06/17/2026	06/17/2027
AEMC00654	Micro-Tronics	BRC50722	Band Reject Filter	N/A	06/12/2026	06/12/2027
AEMC00394	N/A	SMRE-200W-12.0-SMRE	Band Reject Filter cable	N/A	06/12/2026	06/12/2027
AEMC00518	Rohde & Schwarz	EPL1000	EMI Receiver	101086	8/18/2025	8/18/2026
AEMC003010	Rohde & Schwarz	ENV216	Two-Line V-Network	3010	5/29/2026	5/29/2027
AEMC00871	ACS	n/a	Conducted EMI Cable	871	3/24/2026	3/24/2027
AEMC00494	Omega	iBTHX-W	Temp/Humidity Meter	9460211	2/10/2025	2/10/2027
AEMC3144	ETS Lindgren	USB Key MD 800608	Tile software	N/A	NCR	NCR

N/A – Not Applicable

NCR – No Calibration Required

3 Diagram of Test Set-ups

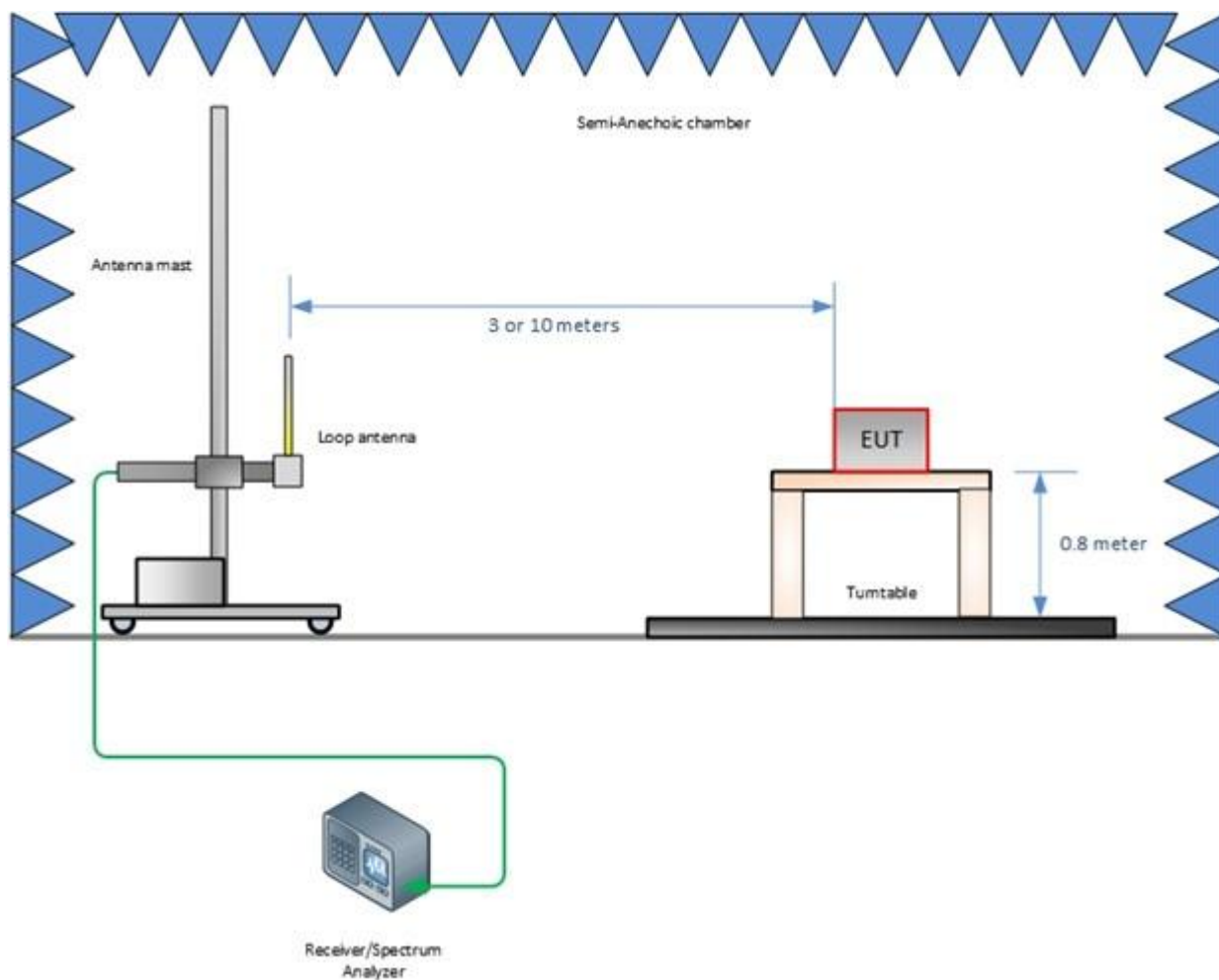


Figure 3-1 – Radiated Emissions Test Setup up to 30 MHz

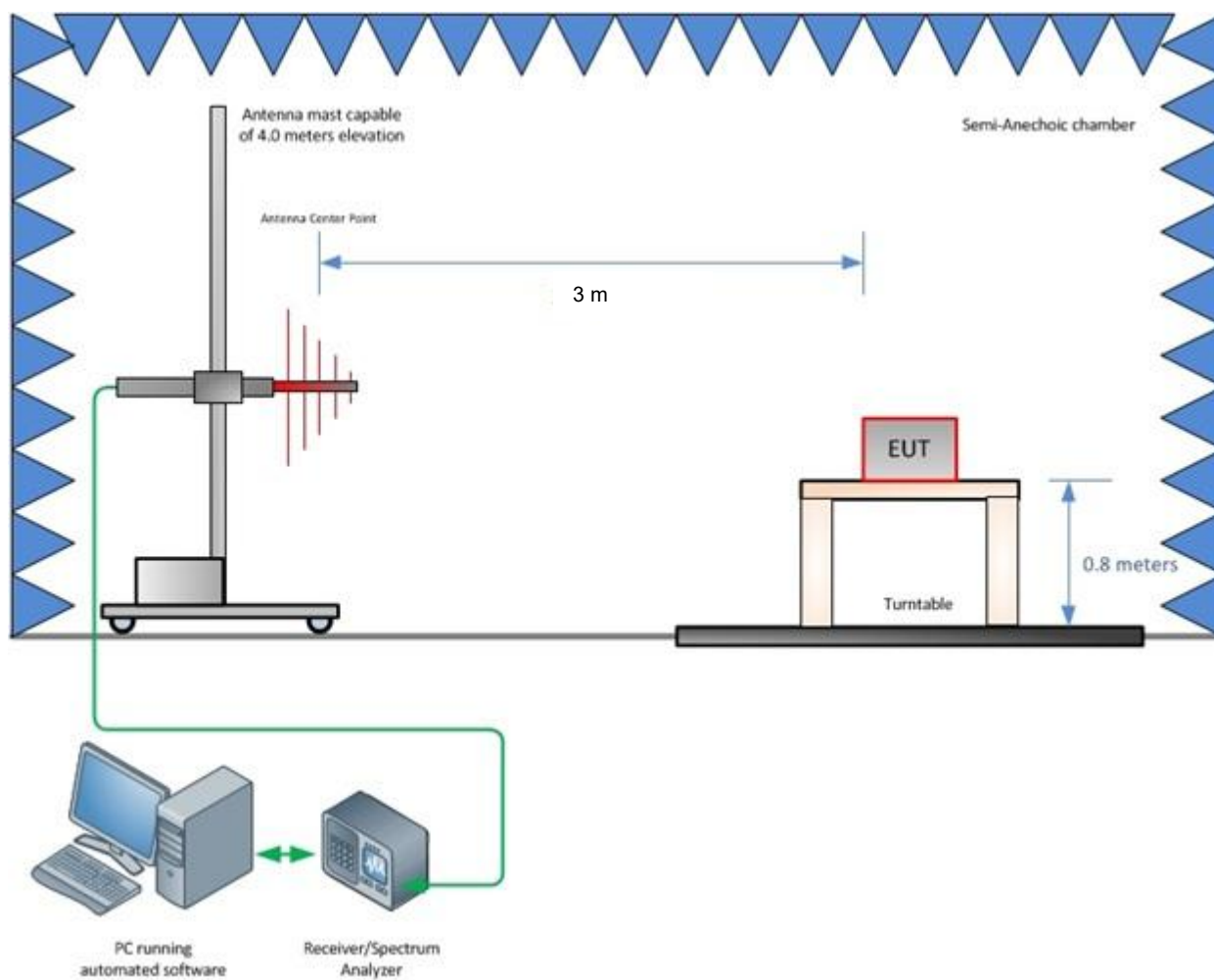


Figure 3-2 – Radiated Emissions Test Setup up to 1 GHz

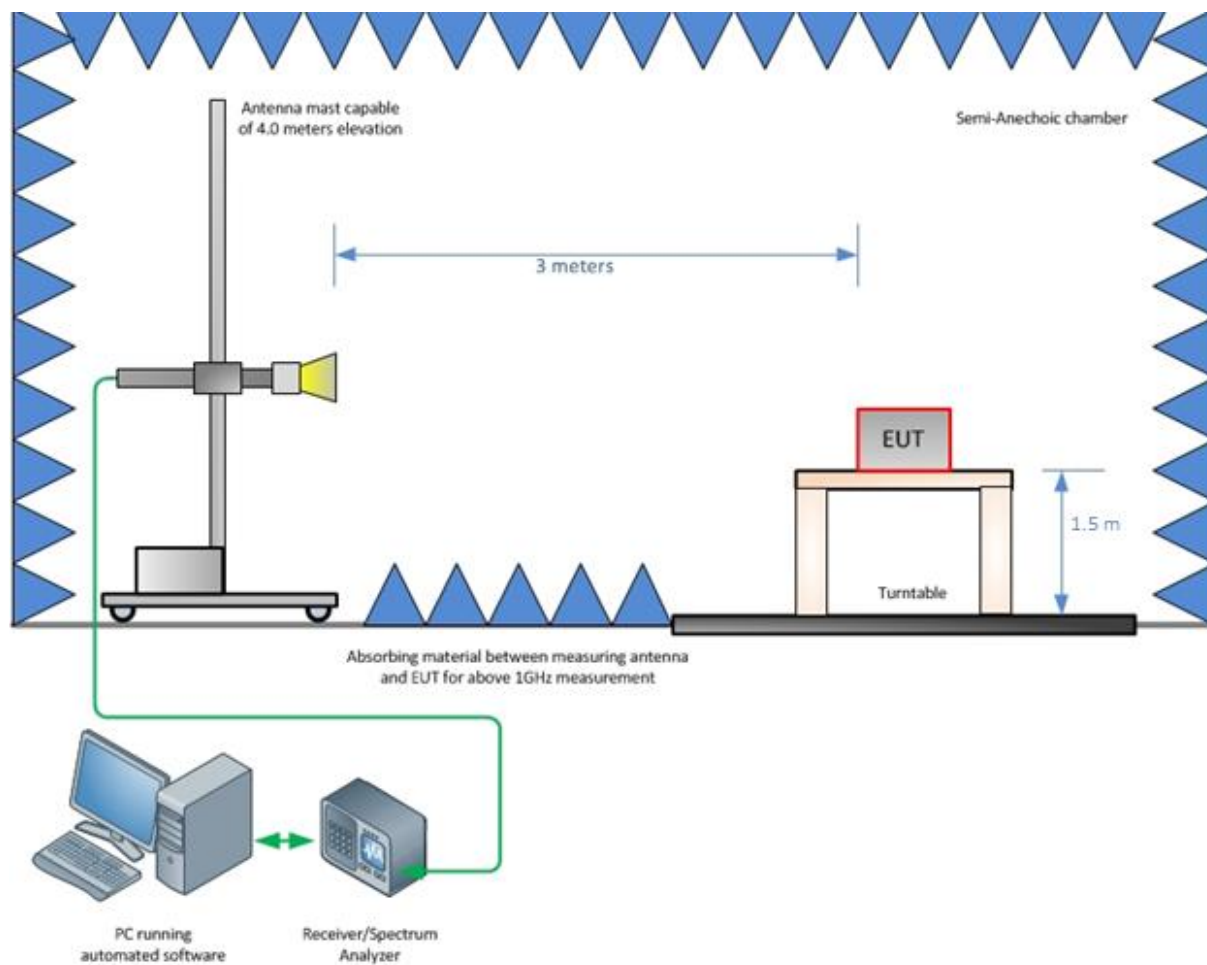


Figure 3-3 – Radiated Emissions Test Setup above 1 GHz

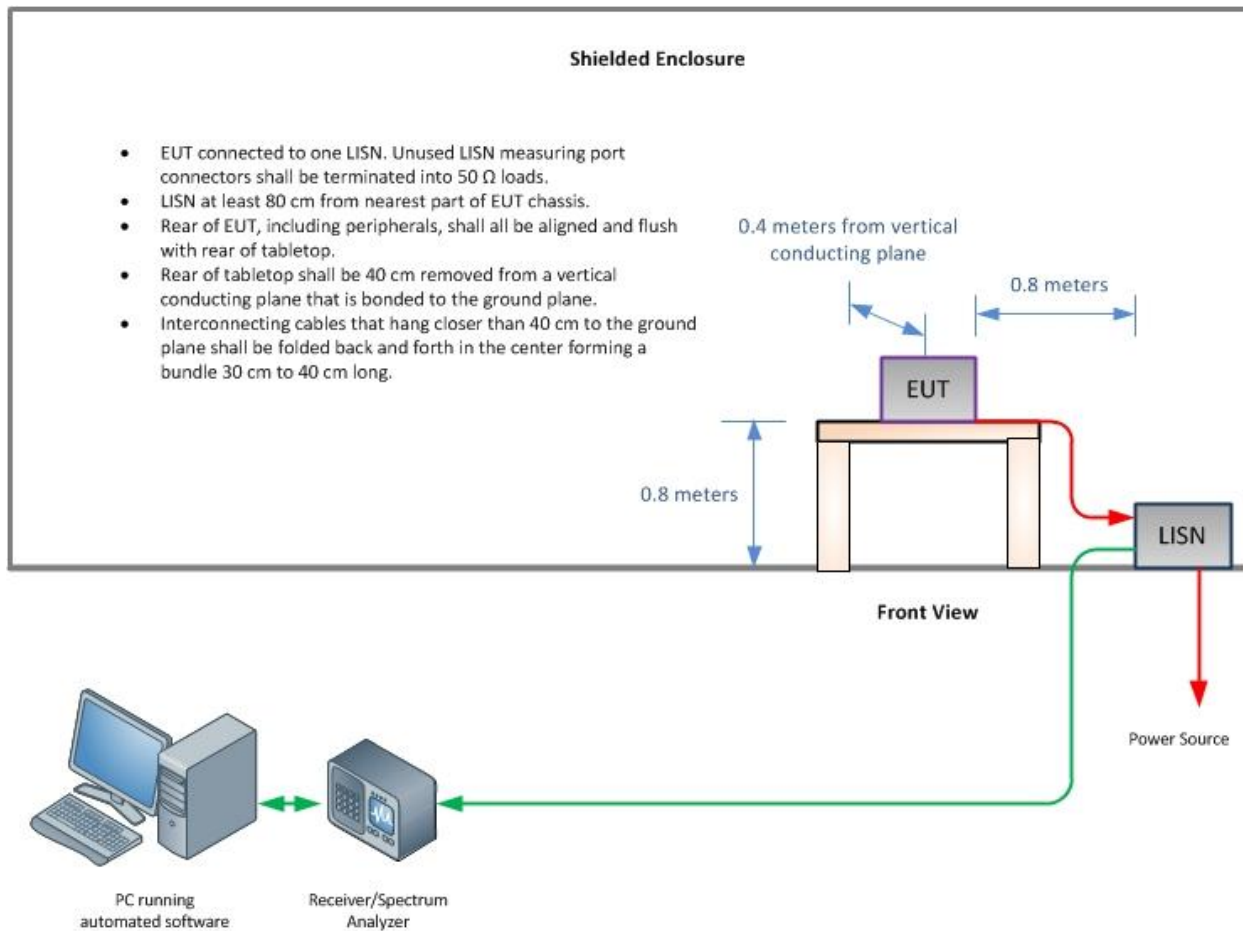


Figure 3-4 – Conducted Emissions Test Setup



4 Accreditation, Disclaimers and Copyright

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STATEMENT OF MEASUREMENT UNCERTAINTY

The expanded laboratory measurement uncertainty figures (U_{Lab}) provided below correspond to an expansion factor (coverage factor) $k = 1.96$ which provide confidence levels of 95%.

Table 4-1: Estimation of Measurement Uncertainty

Parameter	U_{lab}
Radiated Emissions ≤ 1 GHz	± 5.72 dB
Radiated Emissions > 1 GHz	± 5.02 dB
Temperature	± 0.860 °C
Radio Frequency	$\pm 2.832 \times 10^{-8}$
AC Power Line Conducted Emissions	± 3.280 dB

TEST EQUIPMENT

All measurement instrumentation is traceable to the National Institute of Standards and Technology and is calibrated to meet test method standard requirements and/or manufacturer's specifications.