FCC Test Report

Airspan Communications Ltd
4G/5G Small Cell Transportable Base Station, Model: 4G/5G GBSS Call Box

In accordance with FCC 47 CFR Part 15B

Prepared for: Airspan Communications Ltd
Bath Road
Slough
SL1 3UF

FCC ID: O2J-CBATG

COMMERCIAL-IN-CONFIDENCE

Document 75967202-01 Issue 02

SIGNATURE			
A.J. Lawson			
NAME	**JOB TITLE**	**RESPONSIBLE FOR**	**ISSUE DATE**
Andrew Lawson	Chief Engineer, EMC	Authorised Signatory	18 August 2026

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD document control rules.

ENGINEERING STATEMENT
The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC 47 CFR Part 15B. The sample tested was found to comply with the requirements defined in the applied rules.

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Testing	Sreemon Jayachandran Nair	18 August 2026	
	Thomas Biddlecombe	18 August 2026	

FCC Accreditation
492497/UK2010 Octagon House, Fareham Test Laboratory

EXECUTIVE SUMMARY
A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15B: 2024 for the tests detailed in section 1.3.

ACCREDITATION
Our UKAS Accreditation does not cover opinions and interpretations and any expressed are outside the scope of our UKAS Accreditation. Results of tests not covered by our UKAS Accreditation Schedule are marked NUA (Not UKAS Accredited). Results of tests covered by our Flexible UKAS Accreditation Schedule are marked FS (Flexible Scope).

TÜV SÜD
is a trading name of TUV SUD Ltd
Registered in Scotland at East Kilbride,
Glasgow G75 0QF, United Kingdom
Registered number: SC215164

TUV SUD Ltd is a
TÜV SÜD Group Company

Phone: +44 (0) 1489 558100
Fax: +44 (0) 1489 558101
www.tuvsud.com/en

TÜV SÜD
Octagon House
Concorde Way
Fareham
Hampshire PO15 5RL
United Kingdom

Contents

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.

Issue	Description of Change	Date of Issue
1	First Issue	24-Jun-2026
2	Signature added for the Master State Build Declaration	18-Aug-2026

Table 1

1.2 Introduction

Applicant	Airspan Communications Ltd
Manufacturer	Airspan Communications Ltd
Model Number(s)	4G/5G GBSS Call Box
Serial Number(s)	F76AA38054B7
Hardware Version(s)	02
Software Version(s)	Callbox_V1.6
Number of Samples Tested	1
Test Specification/Issue/Date	FCC 47 CFR Part 15B: 2024
Order Number	PO251467
Date	24-February-2026
Date of Receipt of EUT	16-March-2026
Start of Test	16-March-2026
Finish of Test	20-March-2026
Name of Engineer(s)	Sreemon Jayachandran Nair & Thomas Biddlecombe
Related Document(s)	ANSI C63.4: 2014 ANSI C63.10 (2013)

1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15B is shown below.

Section	Specification Clause	Test Description	Result	Comments/Base Standard
Configuration and Mode: AC Powered - Idle				
2.1	15.107	Conducted Emissions, AC Power Port	Pass	ANSI C63.4: 2014
2.2	15.109	Radiated Emissions	Pass	ANSI C63.4: 2014
2.3	15.111	Antenna Power Conduction Limits for Receivers	Pass	ANSI C63.10 (2013)

Table 2

1.4 Declaration of Build Status

MAIN EUT	
MANUFACTURING DESCRIPTION	4G/5G Small Cell Transportable Base Station.
MANUFACTURER	Airspan
MODEL	4G/5G GBSS Call Box
PART NUMBER	908-90-490
SERIAL NUMBER (S/N)	F76AA38054B7
HARDWARE VERSION	02
SOFTWARE VERSION	Callbox_V1.6
PSU VOLTAGE/FREQUENCY/CURRENT	100-240Vac / 47-63 Hz / Max 10A @ 100V, 5A @ 240V
Intended Operating Environment	Commercial
Dimensions/Weight	63.5 x 51 x 31 L x W x D (cm) / 20kg
Typical Installation	Tabletop
HIGHEST INTERNALLY GENERATED FREQUENCY	5.5 GHz
FCC ID (if applicable)	O2J-CBATG
COUNTRY OF ORIGIN	UK
RF CHARACTERISTICS (if applicable)	
TRANSMITTER FREQUENCY OPERATING RANGE (MHz)	4G: 849 MHz to 851 MHz 5G: 2430 MHz to 2483.5 MHz
RECEIVER FREQUENCY OPERATING RANGE (MHz)	4G: 895 MHz 4G: 851 MHz 5G: 2430 MHz to 2483.5 MHz
INTERMEDIATE FREQUENCIES	N/A
EMISSION DESIGNATOR(S): https://fccid.io/Emissions-Designator/	4G: 1M61W7D / 5G: 50M0W7W
MODULATION TYPES: (i.e. GMSK, QPSK)	QPSK / 16 QAM / 64 QAM
OUTPUT POWER (W or dBm)	4G and 5G: 20dBm

I hereby declare that the information supplied is correct and complete.

Name: Mike Livingstone
Position held: SVP Engineering
Date 29/7/26

Note: No responsibility will be accepted by TÜV SÜD as to the accuracy of the information declared on this Build State Declaration by the manufacturer.

1.5 Product Information

1.5.1 Technical Description

The Equipment under test (EUT) was a Airspan Communications Ltd 4G/5G Small Cell Transportable Base Station, Model: 4G/5G GBSS call box.

The primary function of the EUT is to provide a simulated 4G/5G cell to test connectivity to Aircard installations of the Airspan ATG system.

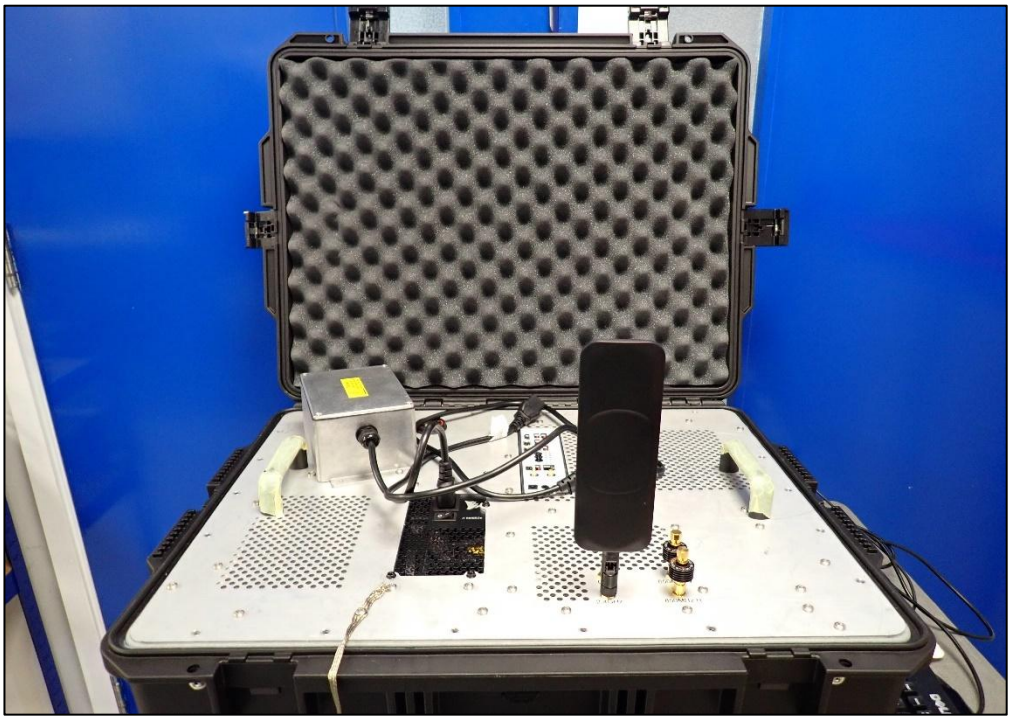

Figure 1 - General Setup

1.5.2 EUT Port/Cable Identification

Port	Max Cable Length specified	Usage	Type	Screened
Configuration and Mode: AC Powered - Idle				
AC Power Port	2 m	EUT Power	IEC	No
Ethernet Port	100 m	Control I/O	Cat 5	Yes
USB-A Port 1	1 m	Keyboard	USB-A	No
USB-A Port 2	1 m	Mouse	USB-A	No

Table 3

1.5.3 Test Configuration

Mode	Description
AC Powered	The EUT was powered from a 115 V 60 Hz AC Supply. The EUT had the following connections made: • The Ethernet Port was terminated with a support laptop. • USB-A Port 1 was terminated with a keyboard. • USB-A Port 2 was terminated with a mouse.

Table 4

1.5.4 Modes of Operation

Mode	Description
Idle	The EUT was powered and operating and connected to a support laptop through a SSH terminal. The EUTs intentional transmitters were disabled.

Table 5

1.6 Deviations from the Standard

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

1.7 EUT Modification Record

The table below details modifications made to the EUT during the test programme.

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
RIU-D300 Model: 4G/5G GBSS call box Serial Number: F76AA38054B7			
0	As supplied by the customer	Not Applicable	Not Applicable
1	Adjustment of internal attenuators.	Customer	18-March-2026

Table 6

1.8 Test Location

TÜV SÜD conducted the following tests at our Octagon House Test Laboratory.

Test Name	Name of Engineer(s)	Accreditation
Configuration and Mode: AC Powered - Idle		
Conducted Emissions, AC Power Port	Sreemon Jayachandran Nair	UKAS
Radiated Emissions	Sreemon Jayachandran Nair	UKAS
Antenna Power Conduction Limits for Receivers	Thomas Biddlecombe	UKAS

Table 7

Office Address:

TÜV SÜD, Octagon House, Concorde Way
Fareham, Hampshire, PO15 5RL
United Kingdom

2 Test Details

2.1 Conducted Emissions, AC Power Port

2.1.1 Specification Reference

FCC 47 CFR Part 15B, Clause 15.107

2.1.2 Equipment Under Test and Modification State

4G/5G Small Cell Transportable Base Station, Model: 4G/5G GBSS call box,
S/N: F76AA38054B7 - Modification State 0

2.1.3 Date of Test

17-March-2026

2.1.4 Test Method

The EUT was setup according to ANSI C63.4, clause 5.2.

The EUT was placed on a non-conductive table 0.8 m above a reference ground plane. A vertical coupling plane was placed 0.4 m from the EUT boundary.

A Line Impedance Stabilisation Network (LISN) was directly bonded to the ground-plane. The EUT was located so that the distance between the boundary of the EUT and the closest surface of the LISN was 0.8 m.

Interconnecting cables that hanged closer than 0.4 m to the ground plane were folded back and forth in the centre forming a bundle 0.3 m to 0.4 m long.

Input and output cables were terminated with equipment or loads representative of real usage conditions.

The EUT was configured to give the highest level of emissions within reason of a typical installation as described by the manufacturer.

A Peak detector pre-scan of the EUT emissions profile was measured across the appropriate frequency range.

Where all pre-scan peak emissions measured were greater than 20 dB below the CISPR Average test limit, no final measurements were made in accordance with ANSI C63.4.

Where any pre-scan peak emissions were within 20 dB of the CISPR Average test limit, the six highest pre-scan emissions seen across the frequency range were measured for at least 15 seconds using a Peak, Quasi-Peak or CISPR Average detector as appropriate to the test limit being measured against.

2.1.5 Example Calculation

Quasi-Peak level (dBuV) = Receiver level (dBuV) + Correction Factor (dB)
Margin (dB) = Quasi-Peak level (dBuV) - Limit (dBuV)

CISPR Average level (dBuV) = Receiver level (dBuV) + Correction Factor (dB)
Margin (dB) = CISPR Average level (dBuV) - Limit (dBuV)

2.1.6 Example Test Setup Diagram

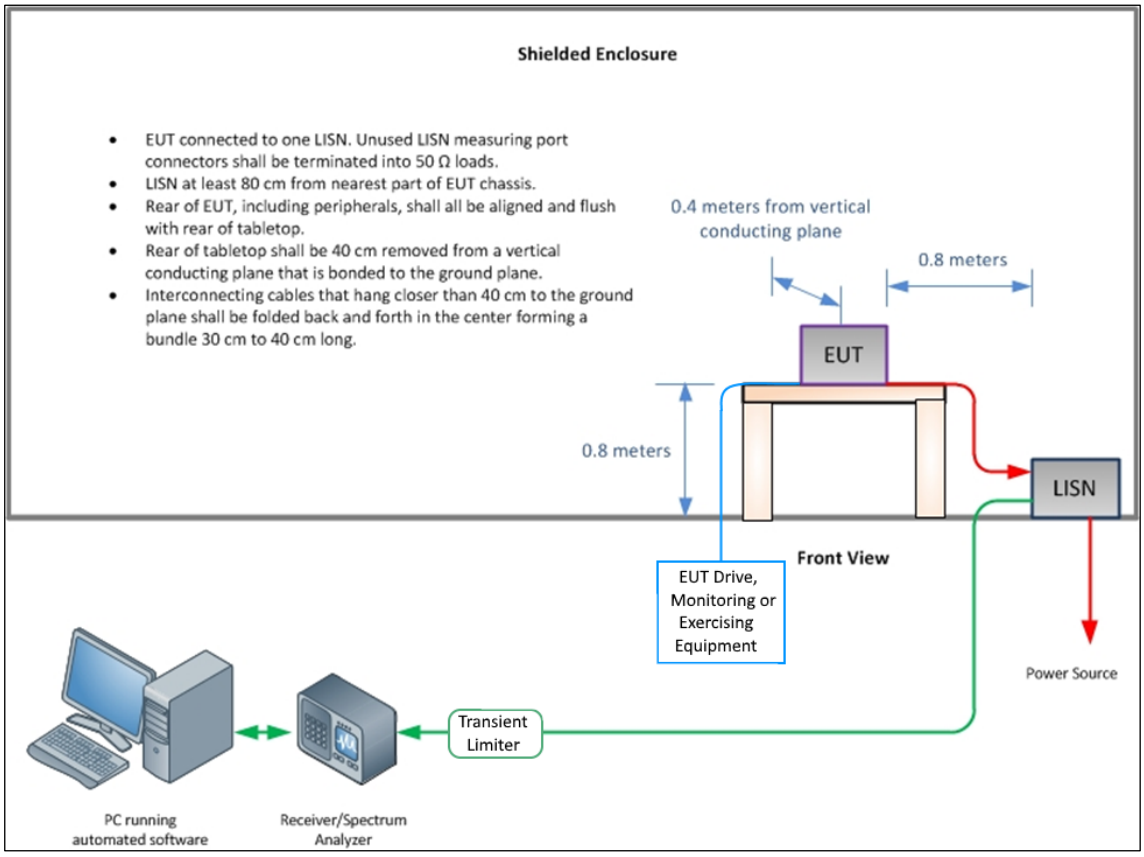

Figure 2 - Conducted Emissions Example Test Setup

2.1.7 Environmental Conditions

Ambient Temperature	21.2 °C
Relative Humidity	38.5 %
Atmospheric Pressure	1005.0 mbar

2.1.8 Specification Limits

Required Specification Limits - Class A			
Line Under Test	Frequency Range (MHz)	Quasi-Peak Test Limit (dBuV)	CISPR Average Test Limit (dBuV)
AC Power Port	0.15 to 0.5	79	66
	0.5 to 30	73	60
Supplementary information: None			

Table 8

2.1.9 Test Results

Results for Configuration and Mode: AC Powered - Idle.

This test was performed to the requirements of the Class A limits.

Performance assessment of the EUT made during this test: Pass.

Detailed results are shown below.

Applied Supply Voltage: 115 V AC
Applied Supply Frequency: 60 Hz

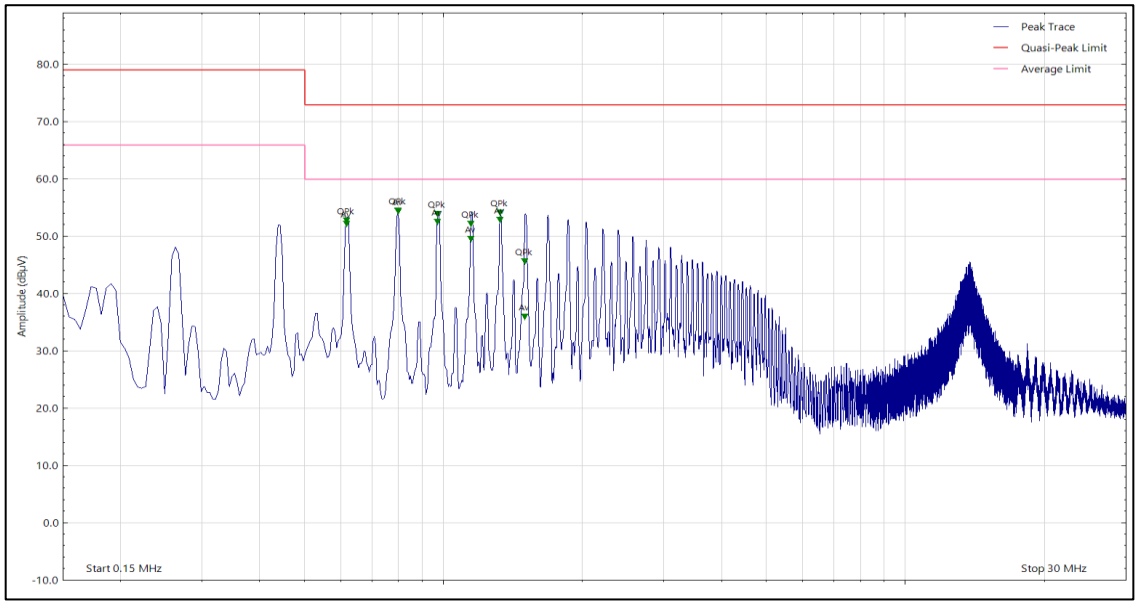

Figure 3 - Graphical Results - Live Line

Frequency (MHz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.618	51.96	73.00	-21.04	Q-Peak
0.618	51.37	60.00	-8.63	CISPR Avg
0.798	53.62	73.00	-19.38	Q-Peak
0.798	53.53	60.00	-6.47	CISPR Avg
0.973	53.05	73.00	-19.95	Q-Peak
0.973	51.73	60.00	-8.27	CISPR Avg
1.149	51.38	73.00	-21.62	Q-Peak
1.149	48.72	60.00	-11.28	CISPR Avg
1.329	53.32	73.00	-19.68	Q-Peak
1.329	52.02	60.00	-7.98	CISPR Avg
1.500	44.81	73.00	-28.19	Q-Peak
1.500	35.14	60.00	-24.86	CISPR Avg

Table 9

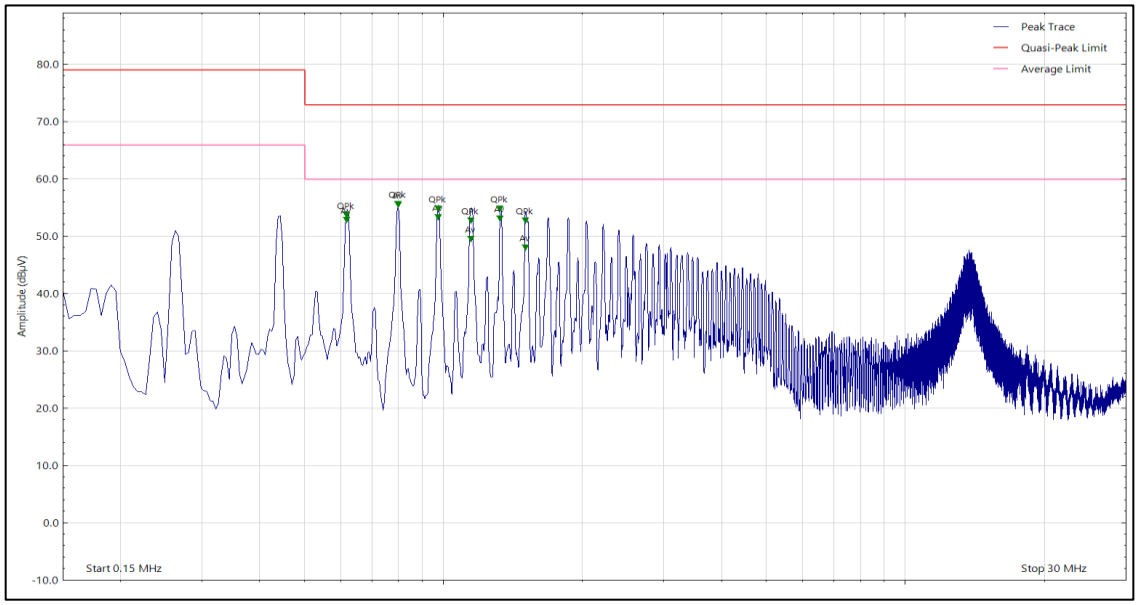

Figure 4 - Graphical Results – Neutral Line

Frequency (MHz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.618	52.84	73.00	-20.16	Q-Peak
0.618	52.06	60.00	-7.94	CISPR Avg
0.798	54.77	73.00	-18.23	Q-Peak
0.798	54.68	60.00	-5.32	CISPR Avg
0.974	54.02	73.00	-18.98	Q-Peak
0.974	52.44	60.00	-7.56	CISPR Avg
1.149	51.93	73.00	-21.07	Q-Peak
1.149	48.73	60.00	-11.27	CISPR Avg
1.329	54.00	73.00	-19.00	Q-Peak
1.329	52.24	60.00	-7.76	CISPR Avg
1.505	51.93	73.00	-21.07	Q-Peak
1.505	47.17	60.00	-12.83	CISPR Avg

Table 10

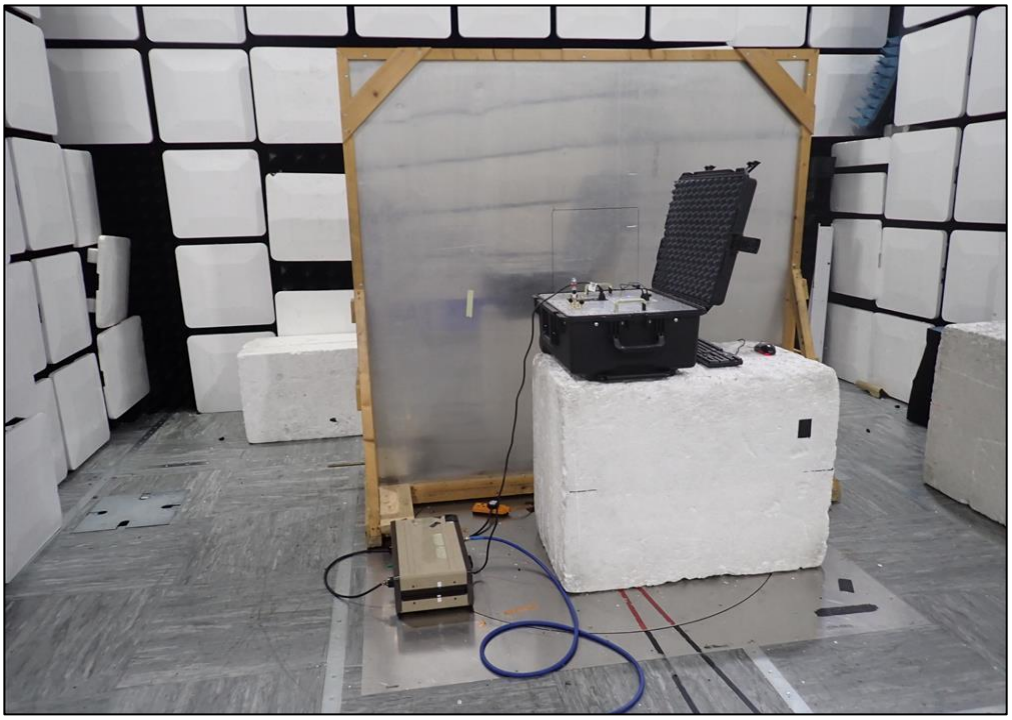

Figure 5 - Test Setup

2.1.10 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 12.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Emissions Software	TUV SUD	EmX V3.6.1	5125	-	Software
Test Receiver	Rohde & Schwarz	ESW44	5382	12	09-Oct-2026
Transient Limiter	Hewlett Packard	11947A	15	12	06-Nov-2026
Cable Assembly - 18GHz 2m	Junkosha	MWX221-02000AMSAMS/B	5730	6	28-Apr-2026
Cable (N-Type to N-Type, 8 m)	Junkosha	MWX221-08000NMSNMS/B	7054	12	01-Jun-2026
LISN (CISPR 16, Single Phase)	Chase	MN 2050	336	12	11-Jul-2026
LISN (CISPR 16, Single Phase)	Rohde & Schwarz	ESH3-Z5	1390	12	05-Feb-2027

Table 11

2.2 Radiated Emissions

2.2.1 Specification Reference

FCC 47 CFR Part 15B, Clause 15.109

2.2.2 Equipment Under Test and Modification State

4G/5G Small Cell Transportable Base Station, Model: 4G/5G GBSS call box,
S/N: F76AA38054B7 - Modification State 0

2.2.3 Date of Test

16-March-2026

2.2.4 Test Method

The EUT was set up in a semi-anechoic chamber in the centre of a remotely controlled turntable and placed on a non-conductive table 0.8 m above a reference ground plane.

A Peak detector pre-scan of the EUT emissions profile was measured across the appropriate frequency range while varying the antenna-to-EUT azimuth and polarisation. Measurements were made using a 3 m distance between the declared antenna measurement point and the EUT.

Where all pre-scan peak emissions measured were greater than 20 dB below the test limit, no final measurements were made in accordance with ANSI C63.4.

Where any pre-scan peak emissions were within 20 dB of the test limit, the six highest pre-scan peak emissions seen across the frequency range were maximised by adjusting antenna height, polarisation and angle and then measured for at least 15 seconds using a Peak, Quasi-Peak or CISPR Average detector as appropriate to the test limit being measured against.

2.2.5 Example Calculation

Below 1 GHz:

Quasi-Peak level (dBuV/m) = Receiver level (dBuV) + Correction Factor (dB/m)
Margin (dB) = Quasi-Peak level (dBuV/m) - Limit (dBuV/m)

Above 1 GHz:

CISPR Average level (dBuV/m) = Receiver level (dBuV) + Correction Factor (dB/m)
Margin (dB) = CISPR Average level (dBuV/m) - Limit (dBuV/m)

Peak level (dBuV/m) = Receiver level (dBuV) + Correction Factor (dB/m)
Margin (dB) = Peak level (dBuV/m) - Limit (dBuV/m)

2.2.6 Example Test Setup Diagram

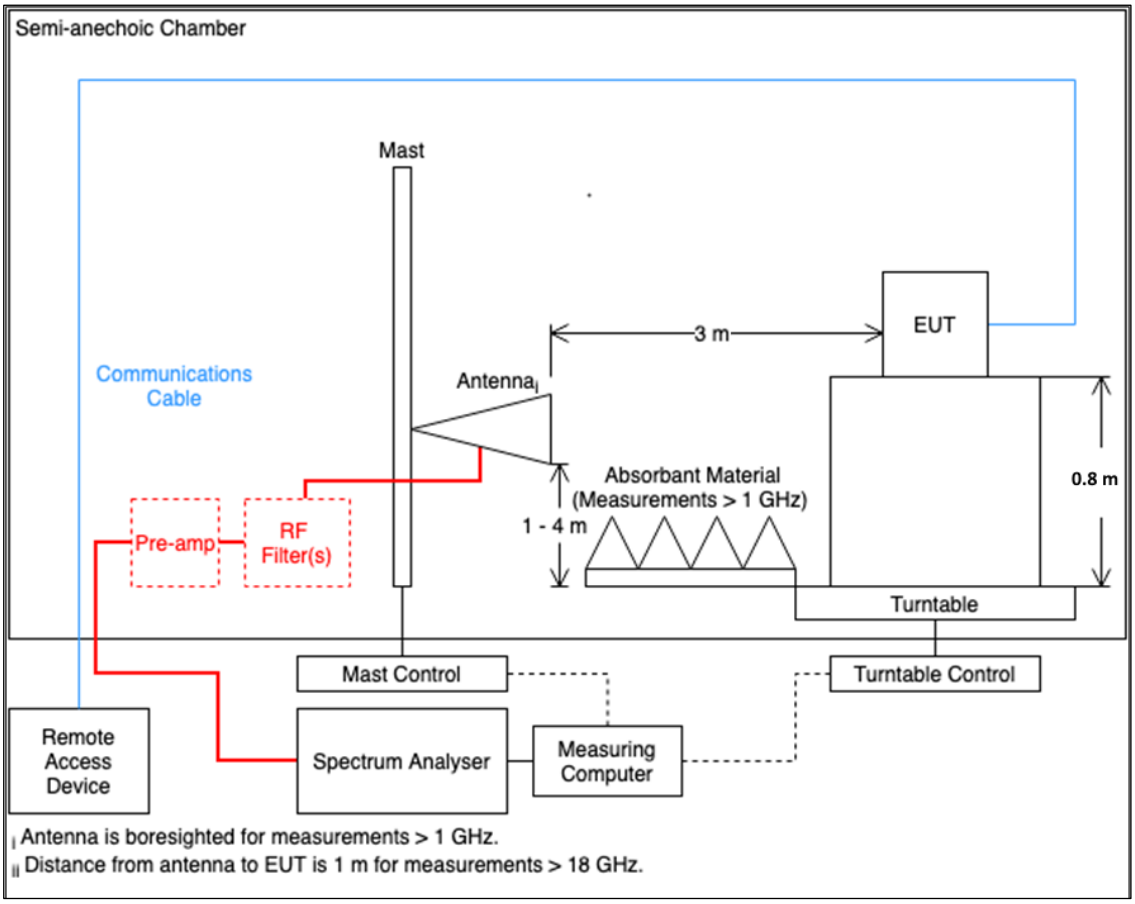

Figure 6 - Radiated Emissions Example Test Setup

2.2.7 Environmental Conditions

Ambient Temperature	22.7 - 36.1 °C
Relative Humidity	22.7 - 36.1 %
Atmospheric Pressure	1010.0 mbar

2.2.8 Specification Limits

Required Specification Limits, Field Strength - Class A Test Limit at a 10 m Measurement Distance		
Frequency Range (MHz)	Test Limit (µV/m)	Test Limit (dBuV/m)
30 to 88	90	39.1
88 to 216	150	43.5
216 to 960	210	46.4
Above 960	300	49.5
Supplementary information: Note 1. A Quasi-Peak detector is to be used for measurements below 1 GHz. Note 2. A CISPR Average detector is to be used for measurements above 1 GHz. Note 3. The Peak test limit above 1 GHz is 20 dB higher than the CISPR Average test limit.		

Table 12

2.2.9 Test Results

Results for Configuration and Mode: AC Powered - Idle.

This test was performed to the requirements of the Class A limits.

Performance assessment of the EUT made during this test: Pass.

Detailed results are shown below.

Highest Frequency Generated Within The EUT: 5.5 GHz
Which necessitates an upper frequency test limit of: 27.5 GHz (Tested to 40 GHz)

Applied Supply Voltage: 115 V AC
Applied Supply Frequency: 60 Hz

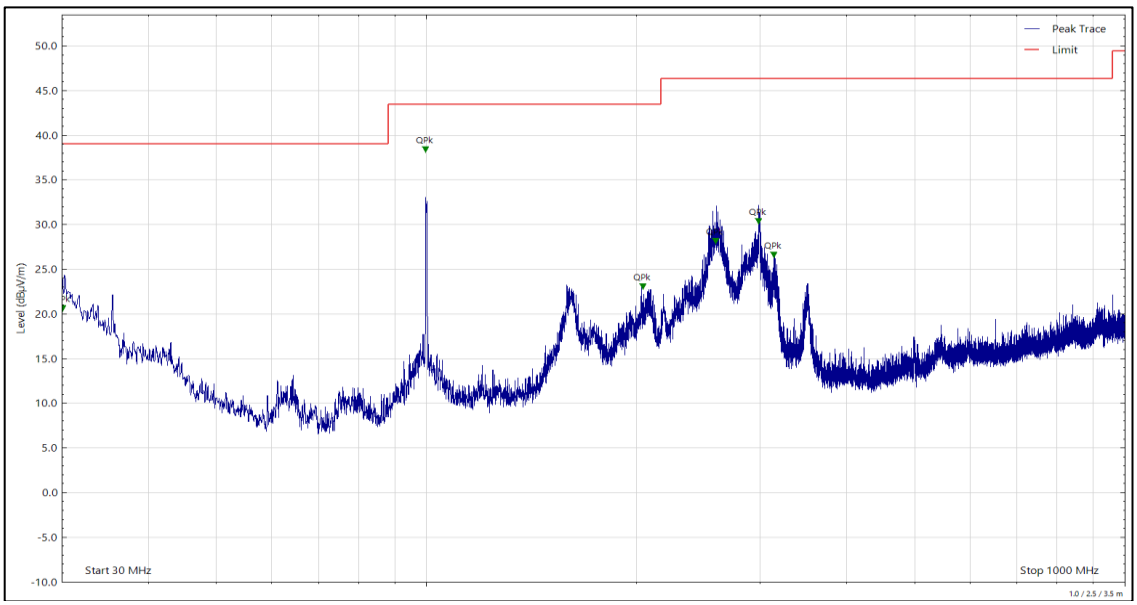

Figure 7 - 30 MHz to 1 GHz, Quasi-Peak, Horizontal

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
30.100	20.12	39.10	-18.98	Q-Peak	0	247	Horizontal
99.627	37.88	43.50	-5.62	Q-Peak	48	237	Horizontal
204.215	22.58	43.50	-20.92	Q-Peak	151	159	Horizontal
259.487	27.68	46.40	-18.72	Q-Peak	282	100	Horizontal
298.842	29.85	46.40	-16.55	Q-Peak	6	100	Horizontal
314.396	26.11	46.40	-20.29	Q-Peak	281	104	Horizontal

Table 13

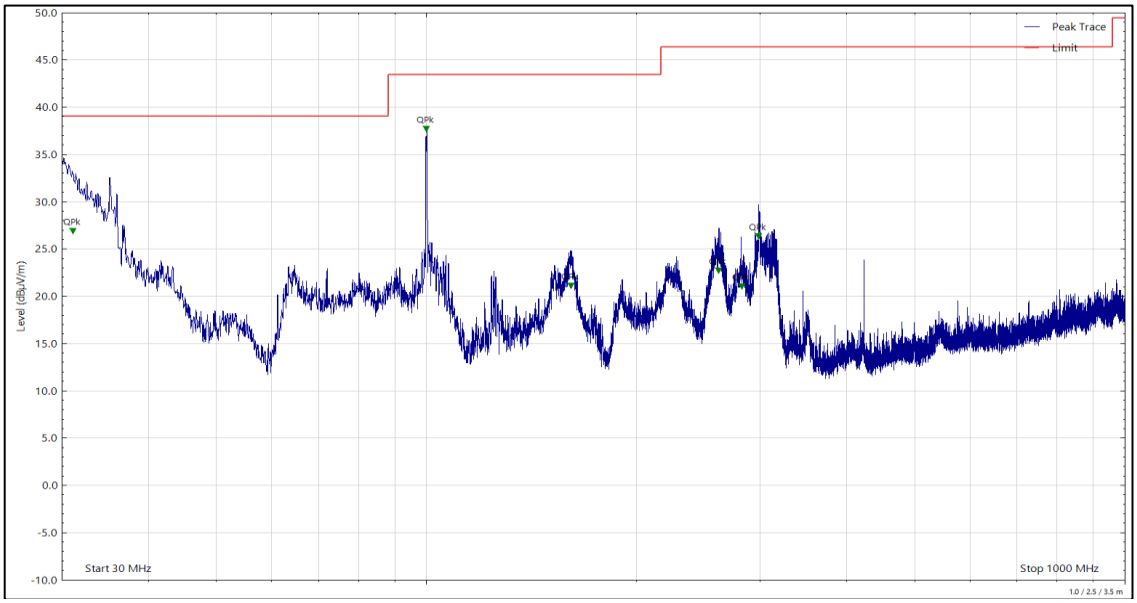

Figure 8 - 30 MHz to 1 GHz, Quasi-Peak, Vertical

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
31.110	26.42	39.10	-12.68	Q-Peak	344	107	Vertical
99.938	37.22	43.50	-6.28	Q-Peak	0	103	Vertical
161.077	20.65	43.50	-22.85	Q-Peak	314	105	Vertical
261.793	22.25	46.40	-24.15	Q-Peak	350	101	Vertical
282.591	20.56	46.40	-25.84	Q-Peak	13	105	Vertical
298.810	25.85	46.40	-20.55	Q-Peak	25	100	Vertical

Table 14

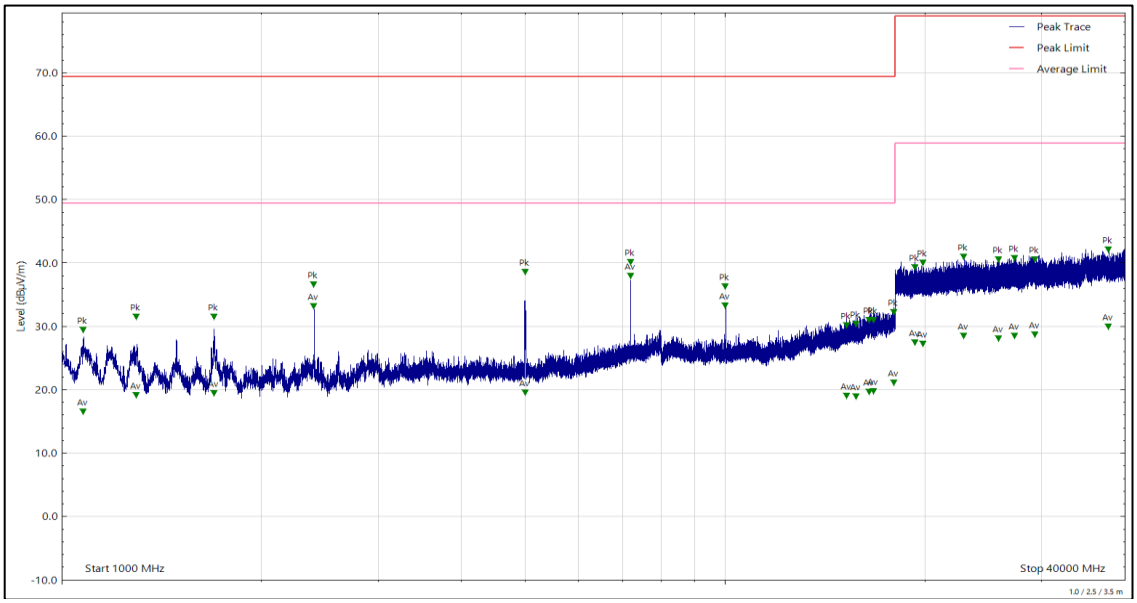

Figure 9 - 1 GHz to 18GHz, Peak & CISPR Average, Horizontal

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
1077.050	28.75	69.50	-40.75	Peak	159	167	Horizontal
1077.050	15.84	49.50	-33.66	CISPR Avg	159	167	Horizontal
1294.802	30.76	69.50	-38.74	Peak	119	100	Horizontal
1294.802	18.39	49.50	-31.11	CISPR Avg	119	100	Horizontal
1698.050	30.85	69.50	-38.65	Peak	135	116	Horizontal
1698.050	18.73	49.50	-30.77	CISPR Avg	135	116	Horizontal
2399.900	35.91	69.50	-33.59	Peak	132	389	Horizontal
2399.900	32.48	49.50	-17.02	CISPR Avg	132	389	Horizontal
4989.305	37.86	69.50	-31.64	Peak	122	128	Horizontal
4989.305	18.87	49.50	-30.63	CISPR Avg	122	128	Horizontal
7199.841	39.44	69.50	-30.06	Peak	132	105	Horizontal
7199.841	37.22	49.50	-12.28	CISPR Avg	132	105	Horizontal
9999.900	35.58	69.50	-33.92	Peak	53	163	Horizontal
9999.900	32.61	49.50	-16.89	CISPR Avg	53	163	Horizontal
15227.851	29.47	69.50	-40.03	Peak	223	267	Horizontal
15227.851	18.28	49.50	-31.22	CISPR Avg	223	267	Horizontal
15743.335	29.66	69.50	-39.84	Peak	348	100	Horizontal
15743.335	18.18	49.50	-31.32	CISPR Avg	348	100	Horizontal
16496.123	30.31	69.50	-39.19	Peak	12	105	Horizontal
16496.123	18.92	49.50	-30.58	CISPR Avg	12	105	Horizontal
16745.688	30.24	69.50	-39.26	Peak	349	101	Horizontal
16745.688	19.08	49.50	-30.42	CISPR Avg	349	101	Horizontal
17939.037	31.52	69.50	-37.98	Peak	110	358	Horizontal
17939.037	20.39	49.50	-29.11	CISPR Avg	110	358	Horizontal
19307.240	38.60	79.00	-40.40	Peak	233	100	Horizontal
19307.240	26.71	59.00	-32.29	CISPR Avg	233	100	Horizontal
19862.145	39.34	79.00	-39.66	Peak	114	100	Horizontal
19862.145	26.53	59.00	-32.47	CISPR Avg	114	100	Horizontal
22894.765	40.25	79.00	-38.75	Peak	35	100	Horizontal
22894.765	27.78	59.00	-31.22	CISPR Avg	35	100	Horizontal
25848.616	39.87	79.00	-39.13	Peak	306	100	Horizontal
25848.616	27.42	59.00	-31.58	CISPR Avg	306	100	Horizontal
27270.270	40.09	79.00	-38.91	Peak	356	100	Horizontal
27270.270	27.75	59.00	-31.25	CISPR Avg	356	100	Horizontal
29291.197	39.82	79.00	-39.18	Peak	201	100	Horizontal
29291.197	28.04	59.00	-30.96	CISPR Avg	201	100	Horizontal
37797.230	41.40	79.00	-37.60	Peak	350	100	Horizontal
37797.230	29.27	59.00	-29.73	CISPR Avg	350	100	Horizontal

Table 15

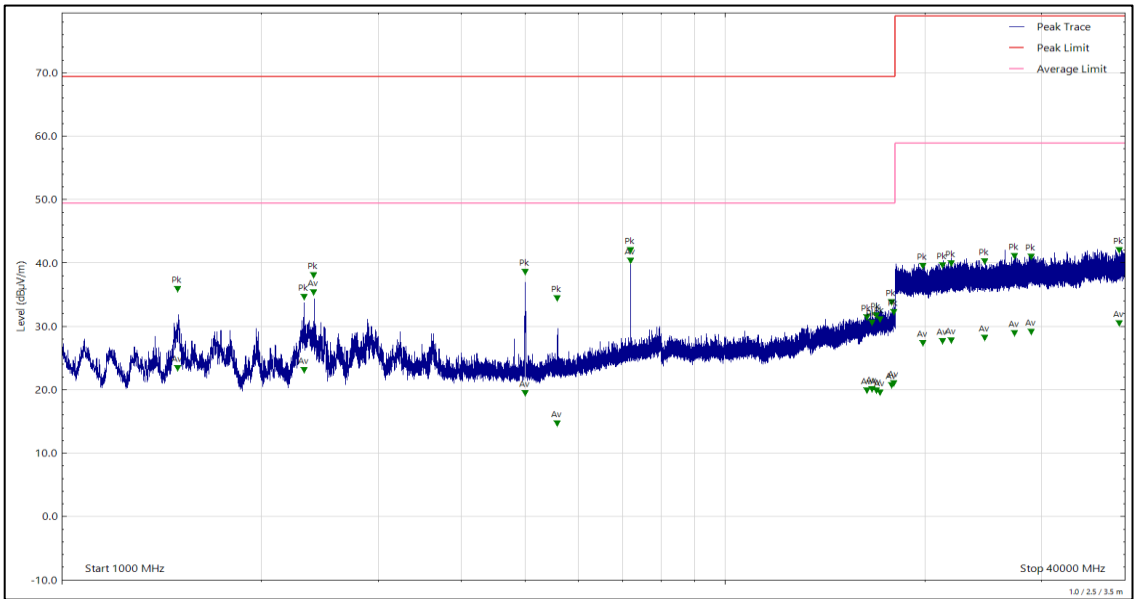

Figure 10 - 1 GHz to 18GHz, Peak & CISPR Average, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
1494.963	35.19	69.50	-34.31	Peak	133	103	Vertical
1494.963	22.74	49.50	-26.76	CISPR Avg	133	103	Vertical
2317.132	33.96	69.50	-35.54	Peak	114	164	Vertical
2317.132	22.40	49.50	-27.10	CISPR Avg	114	164	Vertical
2400.020	37.40	69.50	-32.10	Peak	151	298	Vertical
2400.020	34.67	49.50	-14.83	CISPR Avg	151	298	Vertical
4993.605	37.88	69.50	-31.62	Peak	114	118	Vertical
4993.605	18.71	49.50	-30.79	CISPR Avg	114	118	Vertical
5586.272	33.66	69.50	-35.84	Peak	220	100	Vertical
5586.272	14.01	49.50	-35.49	CISPR Avg	220	100	Vertical
7200.010	41.35	69.50	-28.15	Peak	197	121	Vertical
7200.010	39.66	49.50	-9.84	CISPR Avg	197	121	Vertical
16338.880	30.72	69.50	-38.78	Peak	350	100	Vertical
16338.880	19.14	49.50	-30.36	CISPR Avg	350	100	Vertical
16660.850	29.88	69.50	-39.62	Peak	213	343	Vertical
16660.850	19.37	49.50	-30.13	CISPR Avg	213	343	Vertical
16907.190	31.00	69.50	-38.50	Peak	220	107	Vertical
16907.190	19.18	49.50	-30.32	CISPR Avg	220	107	Vertical
17118.660	30.42	69.50	-39.08	Peak	54	247	Vertical
17118.660	18.82	49.50	-30.68	CISPR Avg	54	247	Vertical
17833.290	33.06	69.50	-36.44	Peak	0	137	Vertical
17833.290	19.96	49.50	-29.54	CISPR Avg	0	137	Vertical
17939.836	31.52	69.50	-37.98	Peak	166	294	Vertical
17939.836	20.34	49.50	-29.16	CISPR Avg	166	294	Vertical
19874.031	38.84	79.00	-40.16	Peak	23	100	Vertical
19874.031	26.62	59.00	-32.38	CISPR Avg	23	100	Vertical
21261.669	38.86	79.00	-40.14	Peak	65	100	Vertical
21261.669	26.98	59.00	-32.02	CISPR Avg	65	100	Vertical
21918.309	39.26	79.00	-39.74	Peak	250	100	Vertical
21918.309	27.05	59.00	-31.95	CISPR Avg	250	100	Vertical
24628.075	39.52	79.00	-39.48	Peak	341	100	Vertical
24628.075	27.51	59.00	-31.49	CISPR Avg	341	100	Vertical
27315.539	40.34	79.00	-38.66	Peak	264	100	Vertical
27315.539	28.25	59.00	-30.75	CISPR Avg	264	100	Vertical
28929.030	40.24	79.00	-38.76	Peak	66	100	Vertical
28929.030	28.44	59.00	-30.56	CISPR Avg	66	100	Vertical
39260.580	41.35	79.00	-37.65	Peak	0	100	Vertical
39260.580	29.76	59.00	-29.24	CISPR Avg	0	100	Vertical

Table 16

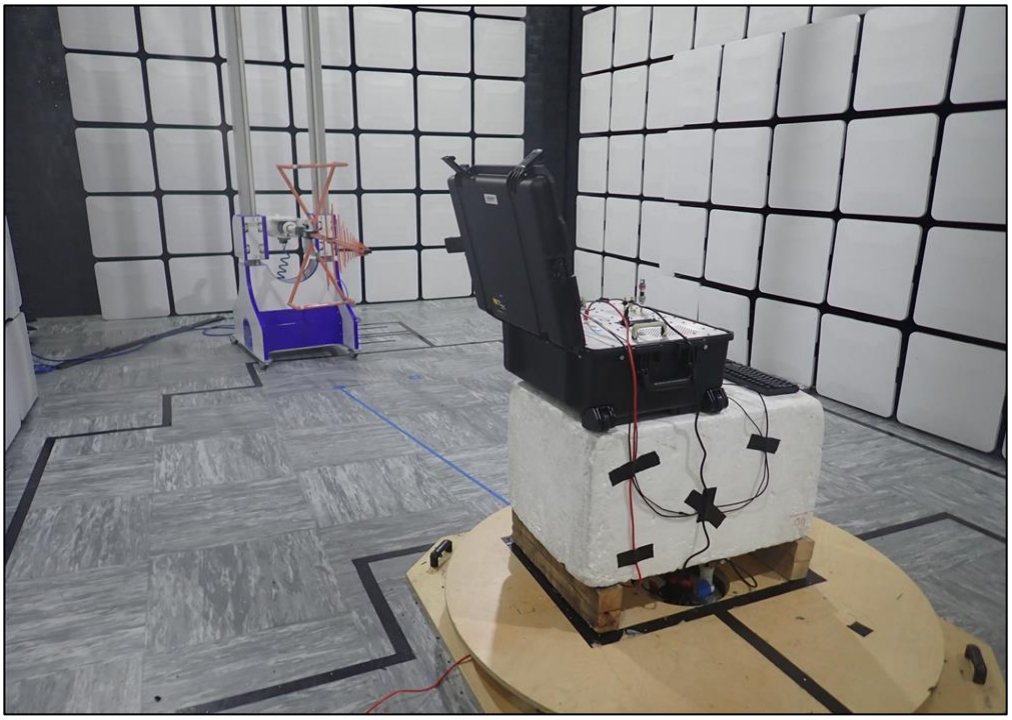

Figure 11 - Test Setup - 30 MHz to 1 GHz

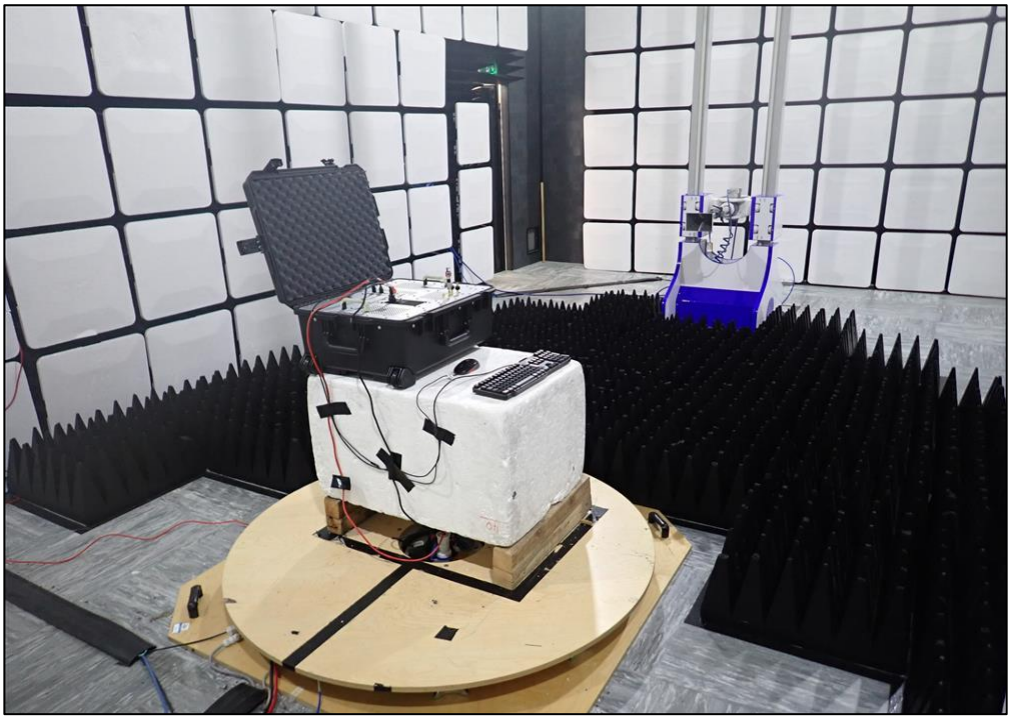

Figure 12 - Test Setup - 1 GHz to 8 GHz

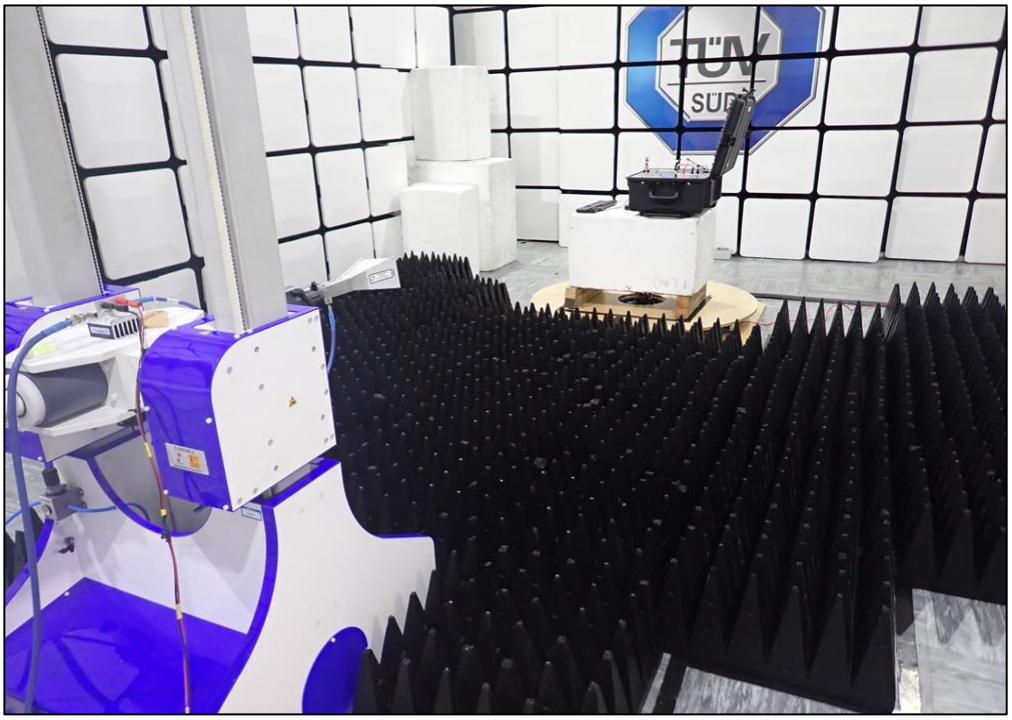

Figure 13 - Test Setup - 8 GHz to 18 GHz

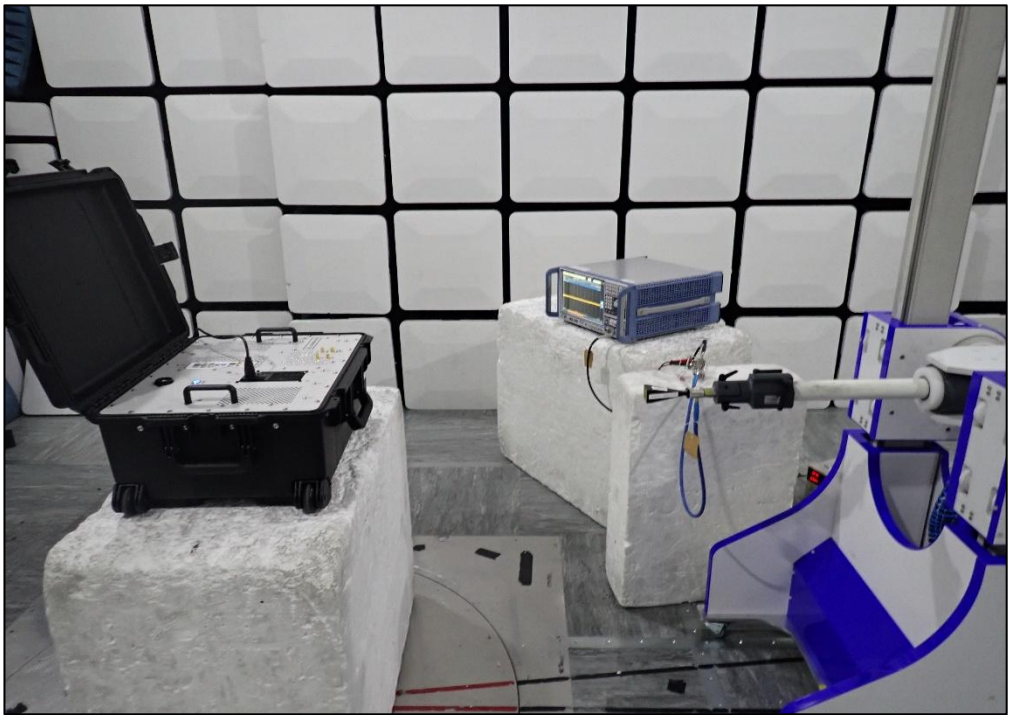

Figure 14 - Test Setup - 18 GHz to 40 GHz

2.2.10 Test Location and Test Equipment Used

This test was carried out in RF Chamber 11 and Chamber 12.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
3m Semi-Anechoic Chamber	Rainford	Screened Room	5136	36	14-Nov-2027
Emissions Software	TUV SUD	EmX V3.6.1	5125	-	Software
EMI Test Receiver	Rohde & Schwarz	ESW44	5527	12	14-Aug-2026
Mast and Turntable Controller	Maturo	Maturo NCD	5159	-	TU
Tilt Antenna Mast	Maturo	TAM 4.0-P	5158	-	TU
Turntable	Maturo	TT 15WF	5160	-	TU
2m Coaxial Cable Assy	Junkosha	MWX221-02000AMSAMS/A	6360	12	13-May-2026
Cable Assy 8m (N to N) 18GHz	Junkosha	MWX221-08000NMSNMS/B	7049	12	01-Jun-2026
Cable 2.92m	Junkosha	MWX241-01000KMS	5413	12	23-May-2026
Cable (K-Type to K-Type, 1 m)	Junkosha	MWX241-01000KMSKMS/A	5511	12	06-Jun-2026
Pre-amplifier (30 dB, 1GHz to 18GHz)	Schwarzbeck	BBV 9718 C	5261	12	17-Apr-2026
Pre-Amplifier (8 GHz to 18 GHz)	Wright Technologies	APS06-0061	5595	12	28-Oct-2026
Pre-Amplifier (18 GHz to 40 GHz)	Phase One	PSO4-0087	1534	12	20-Oct-2026
Antenna (Bilog with attenuator, 30 MHz to 3 GHz)	Schaffner	CBL6143	287	24	29-Aug-2026
Antenna (DRG, 1 GHz to 10.5 GHz)	Schwarzbeck	BBHA9120B	5215	12	05-Jul-2026
Antenna (DRG, 7.5 GHz to 18 GHz)	Schwarzbeck	HWRD750	5216	12	12-Jul-2026
Antenna (DRG, 18 GHz to 40 GHz)	Link Microtek Ltd	AM180HA-K-TU2	230	24	08-Oct-2026

Table 17

TU - Traceability Unscheduled

2.3 Antenna Power Conduction Limits for Receivers

2.3.1 Specification Reference

FCC 47 CFR Part 15B, Clause 15.111

2.3.2 Equipment Under Test and Modification State

4G/5G Small Cell Transportable Base Station, Model: 4G/5G GBSS call box, S/N: F76AA38054B7 - Modification State 1

2.3.3 Date of Test

20-March-2026

2.3.4 Test Method

This test was performed in accordance with ANSI C63.10, clause 6.7.

The EUT was placed on a non-conductive table 0.8 m above a reference ground plane within a screened room.

Measurements were taken directly from the applicable antenna output port.

A peak detector scan of the EUT emissions profile was measured across the appropriate frequency range.

2.3.5 Environmental Conditions

Ambient Temperature	19.4 °C
Relative Humidity	29.8 %

2.3.6 Specification Limits

Required Specification Limits			
Line Under Test	Frequency Range (MHz)	Quasi-Peak Test Limit (nW)	Quasi-Peak Test Limit (dBm)
Receiver Antenna Port	30 to 960	2	-56.99
Supplementary information: None			

Table 18

2.3.7 Test Results

Results for Configuration and Mode: AC Powered - Idle.

Performance assessment of the EUT made during this test: Pass.

Detailed results are shown below.

Applied Supply Voltage: 110 V AC
Applied Supply Frequency: 60 Hz

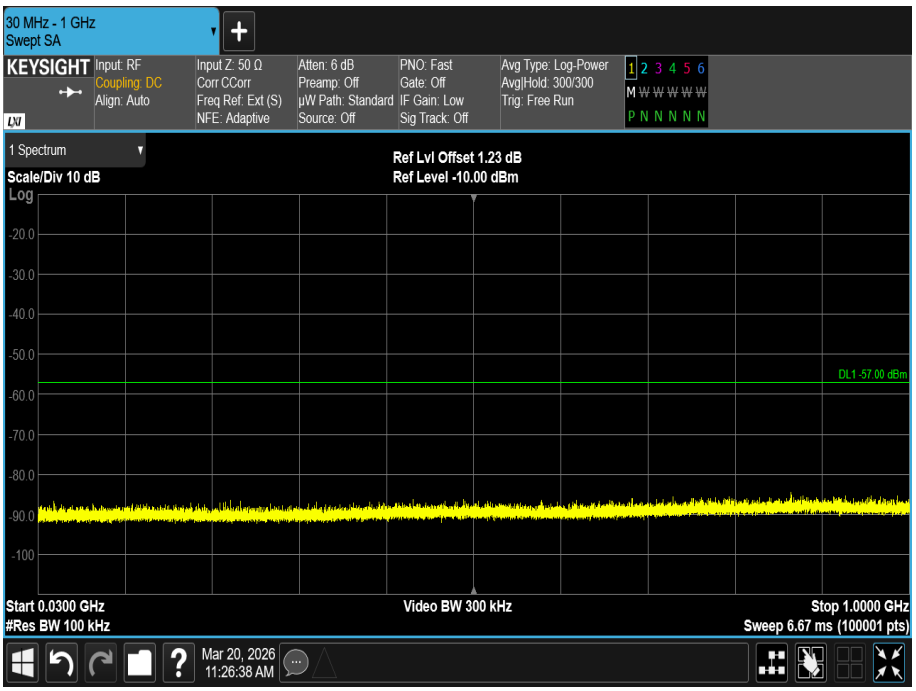

Figure 15 - 30 MHz to 1 GHz, Peak Detector

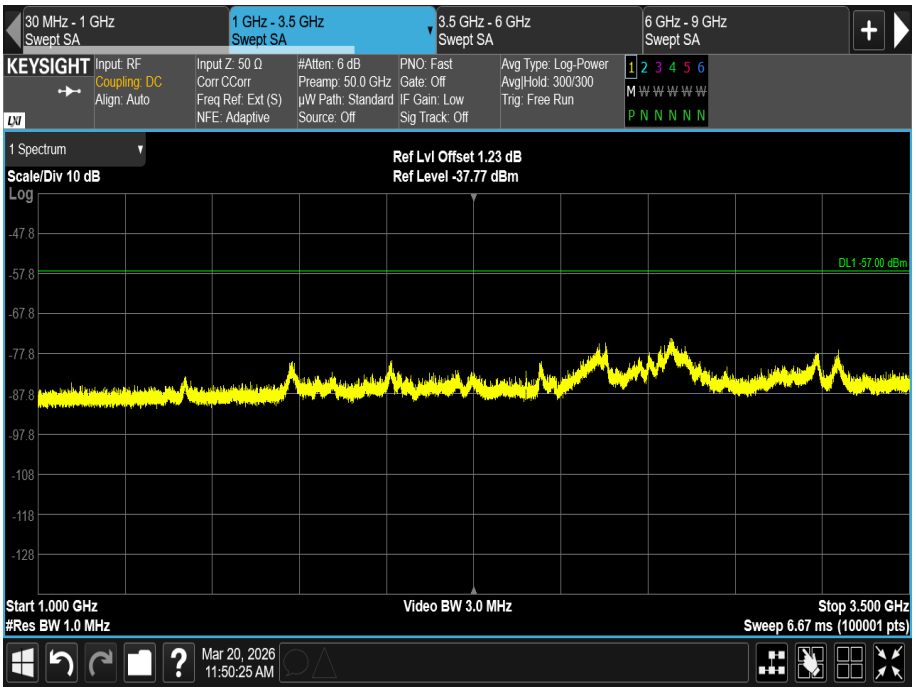

Figure 16 - 1 GHz to 3.5 GHz, Peak Detector

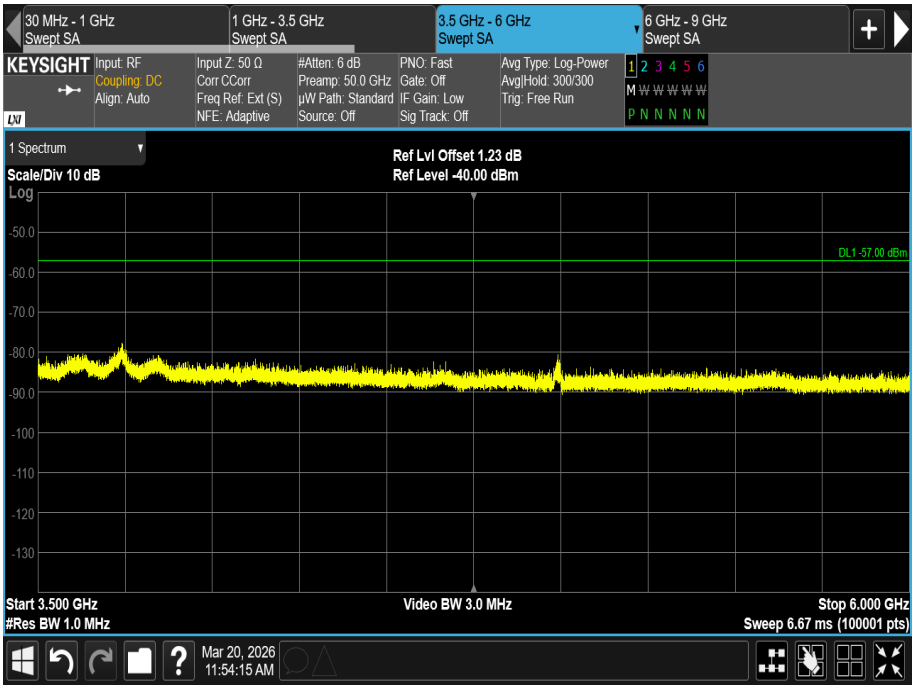

Figure 17 - 3.5 GHz to 6 GHz, Peak Detector

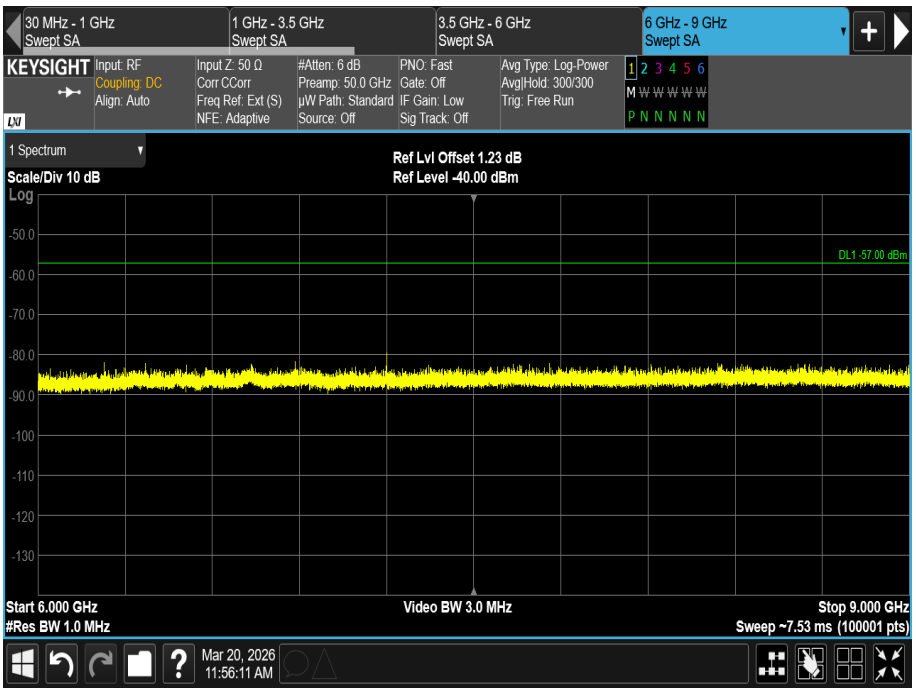

Figure 18 - 6 GHz to 9 GHz, Peak Detector

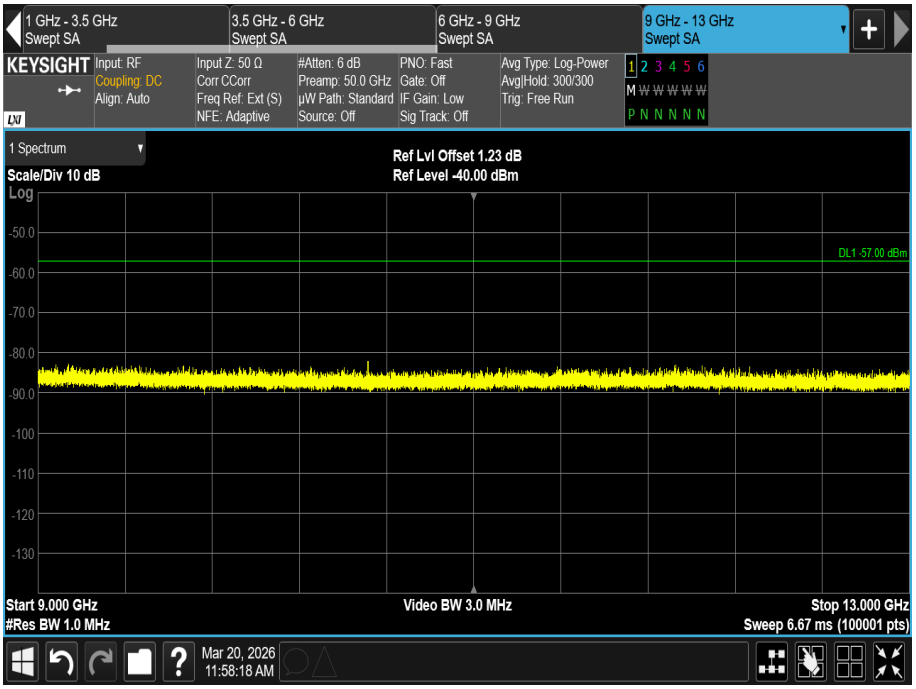

Figure 19 - 9 GHz to 13 GHz, Peak Detector

Limit Clause

(a) In addition to the radiated emission limits, receivers that operate (tune) in the frequency range 30 to 960 MHz and CB receivers that provide terminals for the connection of an external receiving antenna may be tested to demonstrate compliance with the provisions of § 15.109 with the antenna terminals shielded and terminated with a resistive termination equal to the impedance specified for the antenna, provided these receivers also comply with the following: With the receiver antenna terminal connected to a resistive termination equal to the impedance specified or employed for the antenna, the power at the antenna terminal at any frequency within the range of measurements specified in § 15.33 shall not exceed 2.0 nanowatts.

(b) CB receivers and receivers that operate (tune) in the frequency range 30 to 960 MHz that are provided only with a permanently attached antenna shall comply with the radiated emission limitations in this part, as measured with the antenna attached.

2.3.8 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 1.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Signal Analyzer	Keysight Technologies	PXA N9030B	5432	12	19-Aug-2026
Cable (SMA to SMA 3m)	Junkosha	MWX221-03000AMSAMS/B	6023	12	06-Jun-2026
20dB 10W/18GHz F/M SMA bidirectional Attenuator	Weinschel	WA41-20-0102	7027	12	06-Jun-2026

Table 19

3 Test Equipment Information

3.1 General Test Equipment Used

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Multimeter	Iso-tech	IDM101	2421	12	11-Nov-2026
Hygrometer	Rotronic	I-1000	2891	12	23-Dec-2026
AC Programmable Power Supply	iTech	IT7324	5226	-	O/P Mon
Thermo-Hygro-Barometer	PCE Instruments	PCE-THB-40	5476	12	05-Feb-2027
Milliohm Meter	VICI	VC480C+	7210	12	01-Dec-2026

Table 20

O/P Mon – Output Monitored using calibrated equipment

4 Incident Reports

No incidents reports were raised.

5 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

Test Name	Measurement Uncertainty
Conducted Emissions, AC Power Port	150 kHz to 30 MHz, LISN ±3.3 dB
Radiated Emissions	30 MHz to 1 GHz, Bilog Antenna ±5.17 dB 1 GHz to 6 GHz, Horn Antenna ±5.05 dB
Antenna Power Conduction Limits for Receivers	± 2.30 dB

Table 21

Worst case error for both Time and Frequency measurement 12 parts in 10^6.

Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115:2021, Clause 4.4.3 (Procedure 2). The measurement results are directly compared with the test limit to determine conformance with the requirements of the standard.

Risk: The uncertainty of measurement about the measured result is negligible with regard to the final pass/fail decision. The measurement result can be directly compared with the test limit to determine conformance with the requirement (compare IEC Guide 115). The level of risk to falsely accept and falsely reject items is further described in ILAC-G8.