

# FCC and ISED Test Report

Sepura Limited  
Tetra radio, Model: SCG2221

In accordance with FCC 47 CFR Part 15C, ISED RSS-247 and ISED RSS-GEN (2.4 GHz WLAN)

Prepared for: Sepura Limited  
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Add value.  
Inspire trust.

FCC ID: XX6SCG2221M      IC: 8739A-SCG2221ME

## COMMERCIAL-IN-CONFIDENCE

Document 75956225-03 Issue 01

### SIGNATURE

A handwritten signature of Steve Marshall.

NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Steve Marshall	Senior Engineer	Authorised Signatory	08 March 2023

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 15C and ISED RSS-247 and ISED RSS-GEN. The sample tested was found to comply with the requirements defined in the applied rules.

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Testing	Ahmad Javid	08 March 2023	A handwritten signature of Ahmad Javid.

FCC Accreditation  
90987 Octagon House, Fareham Test Laboratory      ISED Accreditation  
12669A Octagon House, Fareham Test Laboratory

### EXECUTIVE SUMMARY

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15C, ISED RSS-247 and ISED RSS-GEN: 2021, Issue 2 (02-2017) and Issue 5 (04-2018) + A2 (02-2021) for the tests detailed in section 1.3.



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#### 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).

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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.

Issue	Description of Change	Date of Issue
1	First Issue	08-March-2023

**Table 1**

### 1.2 Introduction

Applicant	Sepura Limited
Manufacturer	Sepura Limited
Model Number(s)	SCG2221
Serial Number(s)	1PR002230GP58OM
Hardware Version(s)	B Model
Software Version(s)	1807 007 10138
Number of Samples Tested	1
Test Specification/Issue/Date	FCC 47 CFR Part 15C: 2021 ISED RSS-247: Issue 2 (02-2017) ISED RSS-GEN: Issue 5 (04-2018) + A2 (02-2021)
Order Number	PLC-PO023123-1
Date	26-July-2022
Date of Receipt of EUT	07-November-2022
Start of Test	13-December-2022
Finish of Test	13-December-2022
Name of Engineer(s)	Ahmad Javid
Related Document(s)	ANSI C63.10 (2020) ANSI C63.10 (2013) ANSI C63.4 (2014) KDB 484596 D01 Referencing Test Data



### 1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15C, ISED RSS-247 and ISED RSS-GEN is shown below.

Section	Specification Clause			Test Description	Result	Comments/Base Standard
	Part 15C	RSS-247	RSS-GEN			
Configuration and Mode: 2.4 GHz WLAN						
2.1	15.247 (d) and 15.209	3.3 and 5.5	6.13 and 8.9	Spurious Radiated Emissions	Pass	ANSI 63.10 Limited spot checks performed as per KDB 484596 D01. Test result data for the original filing can be found in Document 73315RRF.001 under FCC filing FCC ID: XX6SCG2229M

**Table 2**



## 1.4 Donor Product Introduction

Conducted test results on the 2.4 GHz WLAN/Bluetooth interface are covered by FCC ID XX6SCG2229M and ISED ID 8739A-SCG2229ME. Both the SCG2229 and SCG2221 use the same part for the Bluetooth/WLAN interface on the same PCB, which is supplied by the same voltage and uses the same software. There are no differences in the WLAN/Bluetooth functionality between the SCG2229 and SCG2221. Therefore there can be no difference in the conducted results expected from both SCG22 radios. As the PCBs for the TETRA modules in SCG2221 and SCG2229 are different it is, however, necessary to consider radiated emissions.

Sepura Limited take all responsibility for the validity of the test data for conducted results being applicable to both SCG2229 and SCG2221.

## 1.5 Donor Product Differences

The SCG2229 and SCG2221 share common software and hardware for the WLAN/Bluetooth interface. The WLAN/Bluetooth interface is on a separate PCB to the TETRA interface and this allows the WLAN/Bluetooth interface to be used across multiple platforms. The TETRA PCB and interface is different between the SCG2229 and SCG2221; the band for SCG2229 is 380-470 MHz and the band for SCG2221 is 136-174 MHz. The following table gives details of the differences between the different FCC and ISED IDs:

FCC ID	ISED ID	TETRA Band (MHz)	TETRA PCB	WLAN/Bluetooth PCB	Expansion Board PCB
XX6SCG2221X	8739A-SCG2221X	136-174	VHF	N/A	N/A
XX6SCG2229X	8739A-SCG2229X	380-470	UHF	N/A	N/A
XX6SCG2221M	8739A-SCG2221M	136-174	VHF	1LV Module	N/A
XX6SCG2229M	8739A-SCG2229M	380-470	UHF	1LV Module	N/A
XX6SCG2221M	8739A-SCG2221ME	136-174	VHF	1LV Module	Yes
XX6SCG2229M	8739A-SCG2229ME	380-470	UHF	1LV Module	Yes



## 1.6 Application Form

### Equipment Description

Technical Description: <i>(Please provide a brief description of the intended use of the equipment including the technologies the product supports)</i>	The SCG2221 is a TETRA mobile radio in the SCG22 series of radios, operating in the VHF band, with TETRA operating frequencies 136-174 MHz. The SCG2221 supports GNSS, Bluetooth, Bluetooth LE, WLAN at 2.4 GHz and a range of accessories and ancillary equipment. The SCG2221 may be installed in a vehicle or in a desk mount unit.		
Manufacturer:	Sepura Limited		
Model:	SCG2221		
Part Number:	SCG2221		
Hardware Version:	B Model		
Software Version:	1807 007 10138		
FCC ID of the product under test – <a href="#">see guidance here</a>	XX6SCG2221M		
IC ID of the product under test – <a href="#">see guidance here</a>	8739A-SCG2221ME		

**Table 3**

### Intentional Radiators

Technology	TETRA	Bluetooth	WLAN 802.11b	WLAN 802.11g	WLAN 802.11n	BLE
Frequency Range (MHz to MHz)	136-174	2402-2480	2412-2462	2412-2462	2412-2462	2402-2480
Conducted Declared Output Power (dBm)	40	7.5	17	17	17	7.5
Antenna Gain (dBi)	2	2.2	2.2	2.2	2.2	2.2
Supported Bandwidth(s) (MHz) (e.g. 1 MHz, 20 MHz, 40 MHz)	0.025	1	20	20	20	2
Modulation Scheme(s) (e.g. GFSK, QPSK etc)	$\pi/4$ DQPSK	GFSK / $\pi/4$ -DPSK / 8-DPSK	CCK / DBPSK / DQPSK	OFDM (BPSK / QPSK / 16-QAM / 64-QAM)	BPSK / QPSK / 16-QAM / 64-QAM)	GFSK
ITU Emission Designator <a href="#">(see guidance here)</a> (not mandatory for Part 15 devices)	20K0DXW	1M01F1D 1M01G1D	19M7G1D	19M7G1D	19M7D1D	1M81F1D
Bottom Frequency (MHz)	136	2402	2412	2412	2412	2402
Middle Frequency (MHz)	155	2441	2437	2437	2437	2441
Top Frequency (MHz)	174	2480	2462	2462	2462	2480

**Table 4**



#### Un-intentional Radiators

Highest frequency generated or used in the device or on which the device operates or tunes	2480 MHz
Lowest frequency generated or used in the device or on which the device operates or tunes	32.768 kHz
Class A Digital Device (Use in commercial, industrial or business environment) <input checked="" type="checkbox"/>	
Class B Digital Device (Use in residential environment only) <input type="checkbox"/>	

**Table 5**

#### AC Power Source

AC supply frequency:	Hz
Voltage	V
Max current:	A
Single Phase <input type="checkbox"/> Three Phase <input type="checkbox"/>	

**Table 6**

#### DC Power Source

Nominal voltage:	13.6	V
Extreme upper voltage:	15.6	V
Extreme lower voltage:	10.8	V
Max current:	4	A

**Table 7**

#### Battery Power Source

Voltage:	V
End-point voltage:	V (Point at which the battery will terminate)
Alkaline <input type="checkbox"/> Leclanche <input type="checkbox"/> Lithium <input type="checkbox"/> Nickel Cadmium <input type="checkbox"/> Lead Acid* <input type="checkbox"/> *(Vehicle regulated)	
Other <input type="checkbox"/>	Please detail:

**Table 8**

#### Charging

Can the EUT transmit whilst being charged . Unit does not charge	Yes <input type="checkbox"/> No <input type="checkbox"/>
--	--

**Table 9**

#### Temperature

Minimum temperature:	-20	°C
Maximum temperature:	+60	°C

**Table 10**



Cable Loss

Adapter Cable Loss (Conducted sample)	N/A	dB
--	-----	----

**Table 11**

Antenna Characteristics

Antenna connector <input checked="" type="checkbox"/>		State impedance	50	Ohm
Temporary antenna connector <input type="checkbox"/>		State impedance		Ohm
Integral antenna <input type="checkbox"/>	Type:	Gain		dB
External antenna <input type="checkbox"/>	Type:	Gain		dB
For external antenna only:				
Standard Antenna Jack <input type="checkbox"/> If yes, describe how user is prohibited from changing antenna (if not professional installed):				
Equipment is only ever professionally installed <input checked="" type="checkbox"/>				
Non-standard Antenna Jack <input type="checkbox"/>				
All part 15 applications will need to show how the antenna gain was derived either from a manufacturer data sheet or a measurement. Where the gain of the antenna is inherently accounted for as a result of the measurement, such as field strength measurements on a part 15.249 or 15.231 device, so the gain does not necessarily need to be verified. However, enough information regarding the construction of the antenna shall be provided. Such information maybe photographs, length of wire antenna etc.				

**Table 12**

Ancillaries (if applicable)

Manufacturer:	Panorama Antennas	Part Number:	AFQNT-H5
Model:	TETRA antenna	Country of Origin:	UK
Manufacturer:	Microchip	Part Number:	RN-SMA-4
Model:	WLAN Antenna	Country of Origin:	Unknown
Manufacturer:	Sepura	Part Number:	300-00063
Model:	GNSS Antenna	Country of Origin:	UK
Manufacturer:	Sepura	Part Number:	300-02012 rev001
Model:	Extended SCG Loudspeaker / IO USB Host lead	Country of Origin:	Unknown
Manufacturer:	Sepura	Part Number:	300-02014 rev001
Model:	Extended SCG Expansion Board Loudspeaker / 8 GPIO lead	Country of Origin:	Unknown
Manufacturer:	Sepura	Part Number:	Netgear GS105 ProSAFE Gigabit Switch
Model:	Netgear GS105 ProSAFE Gigabit Switch	Country of Origin:	Unknown
Manufacturer:	Sepura	Part Number:	300-02010
Model:	SCG Power/ignition Lead	Country of Origin:	Unknown
Manufacturer:	Sepura	Part Number:	300-00069
Model:	Mobile Remote Cable 5.0M	Country of Origin:	Unknown



Manufacturer:	Sepura	Part Number:	300-00670
Model:	HBC Interface and Hands-free Box	Country of Origin:	Unknown
Manufacturer:	Sepura	Part Number:	300-00079
Model:	Remote Microphone And Switch Set	Country of Origin:	Unknown
Manufacturer:	Sepura	Part Number:	300-00292
Model:	Remote Microphone (Handsfree Kit) 3m	Country of Origin:	Unknown
Manufacturer:	Sepura	Part Number:	300-01801
Model:	Handset Based Console (HBC3)	Country of Origin:	Unknown
Manufacturer:	Sepura	Part Number:	300-00062
Model:	Fist microphone	Country of Origin:	Unknown
Manufacturer:	Sepura	Part Number:	300-01808
Model:	SCC3 (colour console)	Country of Origin:	Unknown
Manufacturer:	Sepura	Part Number:	300-01961
Model:	CC VAC RSM (Long Cable)	Country of Origin:	Unknown
Manufacturer:	Sepura	Part Number:	300-00719
Model:	Loudspeaker	Country of Origin:	Unknown
Manufacturer:	Sepura	Part Number:	300-02009
Model:	USB Data/Programming Lead	Country of Origin:	UK
Manufacturer:	Sepura	Part Number:	300-02012
Model:	SCG Loudspeaker / IO USB Host lead	Country of Origin:	UK
Manufacturer:	Sepura	Part Number:	300-02014
Model:	SCG Expansion Board Loud Speaker / 8 GPIO Lead	Country of Origin:	UK
Manufacturer:	Sepura	Part Number:	300-00784
Model:	AMPS attachments	Country of Origin:	UK
Manufacturer:	Sepura	Part Number:	300-00068
Model:	Mobile Remote Cable 3.0M	Country of Origin:	UK

**Table 13**

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

Name: Chris Beecham  
Position held: Conformance Engineer  
Date: 14/10/22



## 1.7 Product Information

### 1.7.1 Technical Description

The SCG2221 is a TETRA mobile radio in the SCG22 series of radios, operating in the VHF band, with TETRA operating frequencies 136-174 MHz. The SCG2221 supports GNSS, Bluetooth, Bluetooth LE, WLAN at 2.4 GHz and a range of accessories and ancillary equipment.

The SCG2221 may be installed in a vehicle or in a desk mount unit.

### 1.8 Deviations from the Standard

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

### 1.9 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
Model: SCG2221, Serial Number: 1PR002230GP580M			
0	As supplied by the customer	Not Applicable	Not Applicable

**Table 14**

### 1.10 Test Location

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

Test Name	Name of Engineer(s)	Accreditation
Configuration and Mode: 2.4 GHz WLAN		
Spurious Radiated Emissions	Ahmad Javid	UKAS

**Table 15**

Office Address:

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



## 2 Test Details

### 2.1 Spurious Radiated Emissions

#### 2.1.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.247 (d) and 15.209  
ISED RSS-247, Clause 3.3 and 5.5  
ISED RSS-GEN, Clause 6.13 and 8.9

#### 2.1.2 Equipment Under Test and Modification State

SCG2221, S/N: 1PR002230GP58OM - Modification State 0

#### 2.1.3 Date of Test

13-December-2022

#### 2.1.4 Test Method

This test was performed in accordance with ANSI C63.10, clause 6.3, 6.5 and 6.6.

For frequencies > 1 GHz, plots for average measurements were taken in accordance with ANSI C63.10, clause 11.12.2.5.2.

Ports on the EUT were terminated with loads as described in ANSI C63.4 clause 6.2.4. For EUT's with multiple connectors of the same type, additional interconnecting cables were connected, and pre-scans performed to determine whether the level of the emissions were increased by >2 dB.

The plots shown are the characterisation of the EUT. The limits on the plots represent the most stringent case for restricted bands, (74/54 dB $\mu$ V/m) when compared to 20 dBc outside restricted bands. The limits shown have been used as a threshold to determine where further measurements are necessary. Where results are within 10 dB of the limits shown on the plots, further investigation was carried out and reported in results tables.

The following conversion can be applied to convert from dB $\mu$ V/m to  $\mu$ V/m:  
 $10^{\text{Field Strength in dB}\mu\text{V/m}/20}$ .

Above 18 GHz, the measurement distance was reduced to 1 m. The limit line was increased by  $20^{\text{LOG}(3/1)} = 9.54$  dB.

At a measurement distance of 1 meter the limit line was increased by  $20^{\text{LOG}(3/1)} = 9.54$  dB.

Where formal measurements have been necessary, the results have been presented in the emissions table.

## 2.1.5 Example Test Setup Diagram

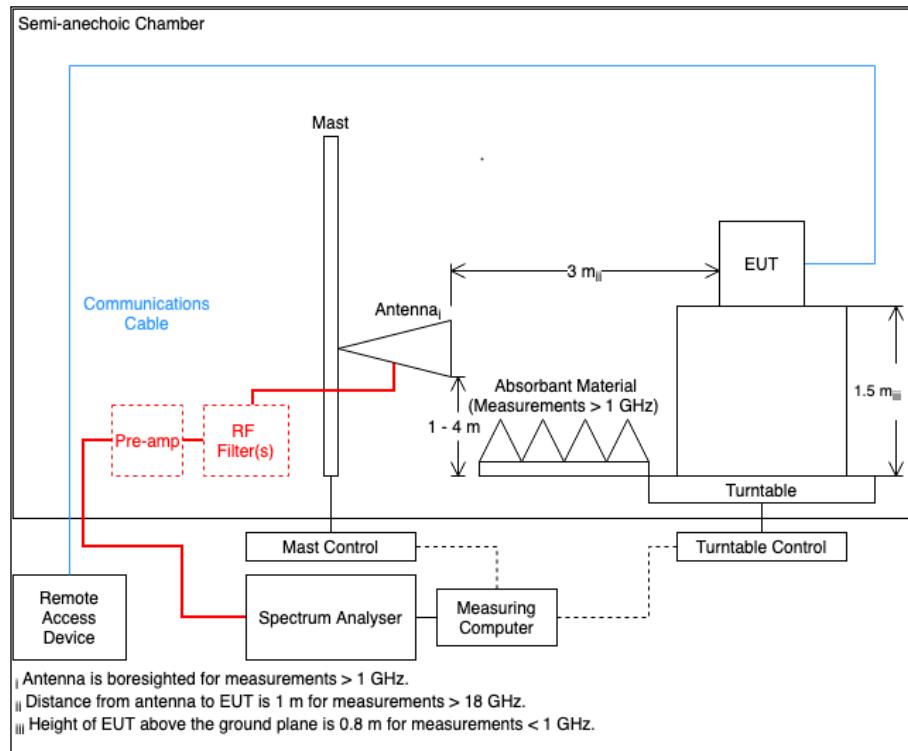


Figure 1

## 2.1.6 Environmental Conditions

Ambient Temperature 21.5 °C  
Relative Humidity 34.6 %

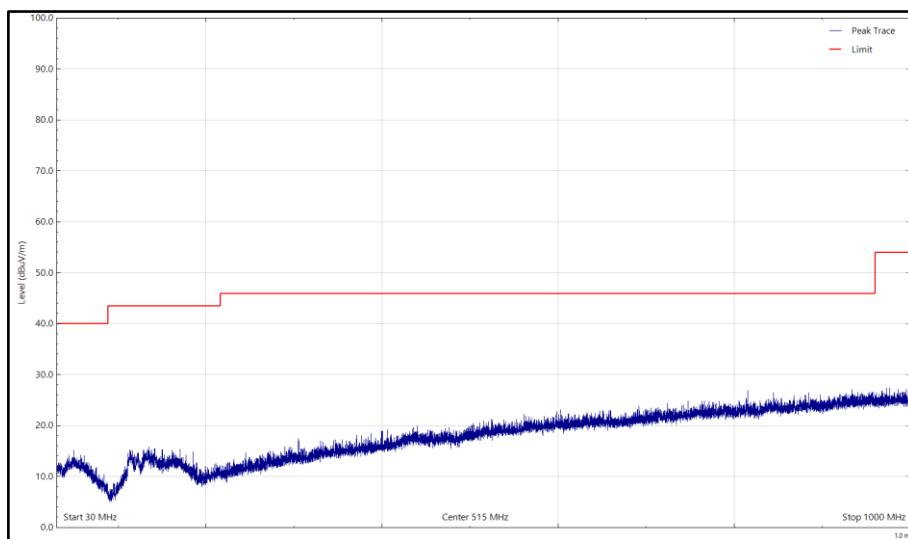
## 2.1.7 Test Results

### 2.4 GHz WLAN

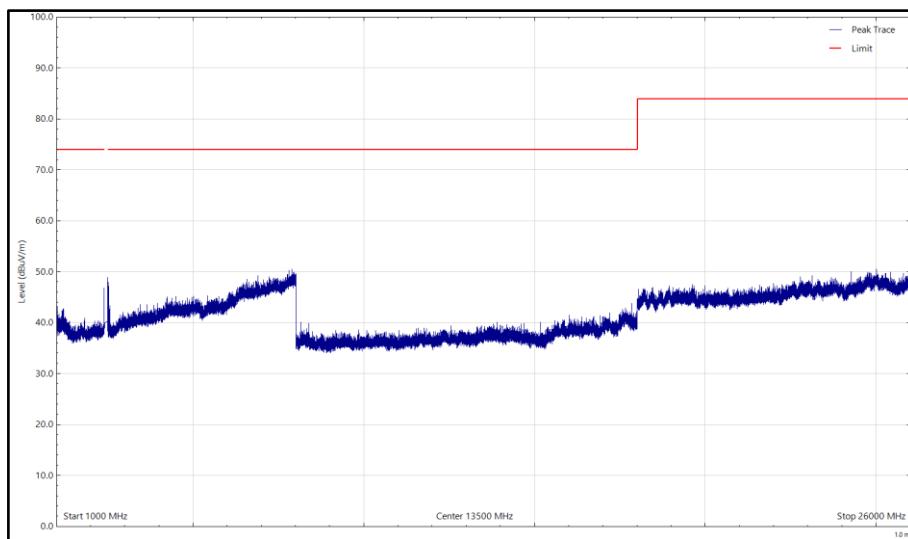
Frequency (MHz)	Level (dBuv/m)	Limit (dBuv/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
*							

**Table 16 - 2462 MHz (CH11), 802.11b, 30 MHz to 26 GHz**

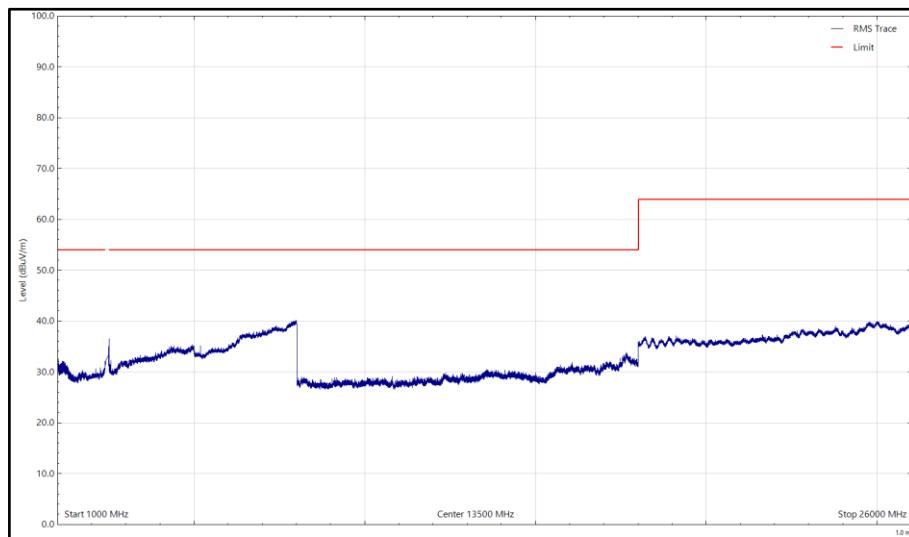
\*No emissions found within 6 dB of the limit.



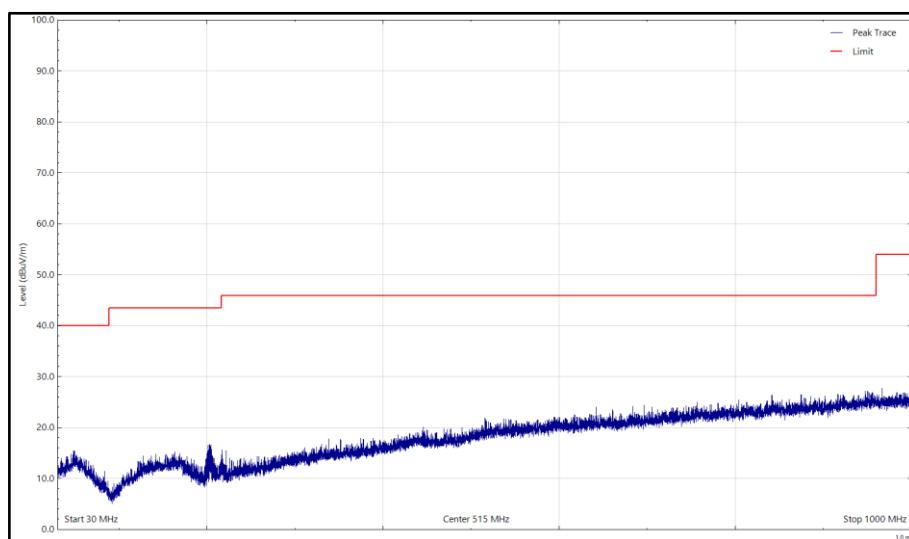
**Figure 2 - 2462 MHz (CH11), 802.11b, 30 MHz to 1 GHz, Horizontal (Peak)**



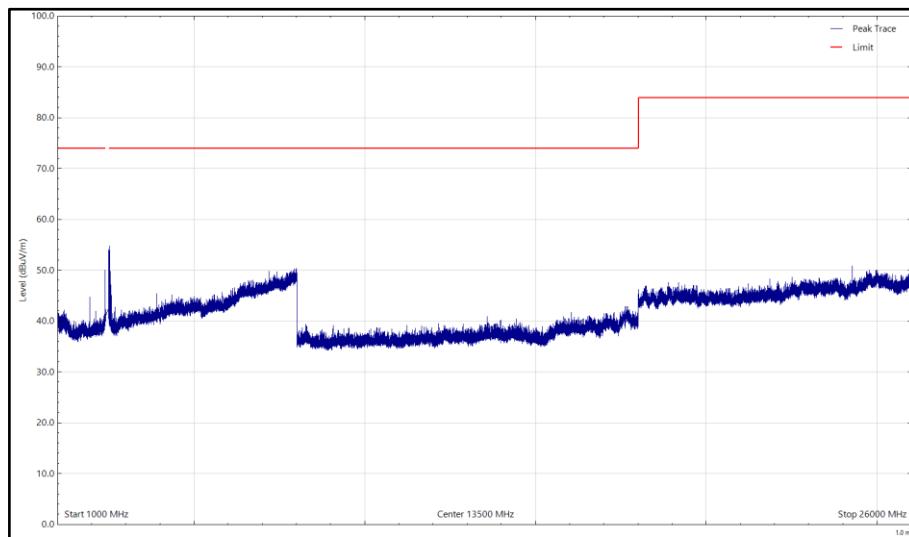
**Figure 3 - 2462 MHz (CH11), 802.11b, 1 GHz to 26 GHz, Horizontal (Peak)**



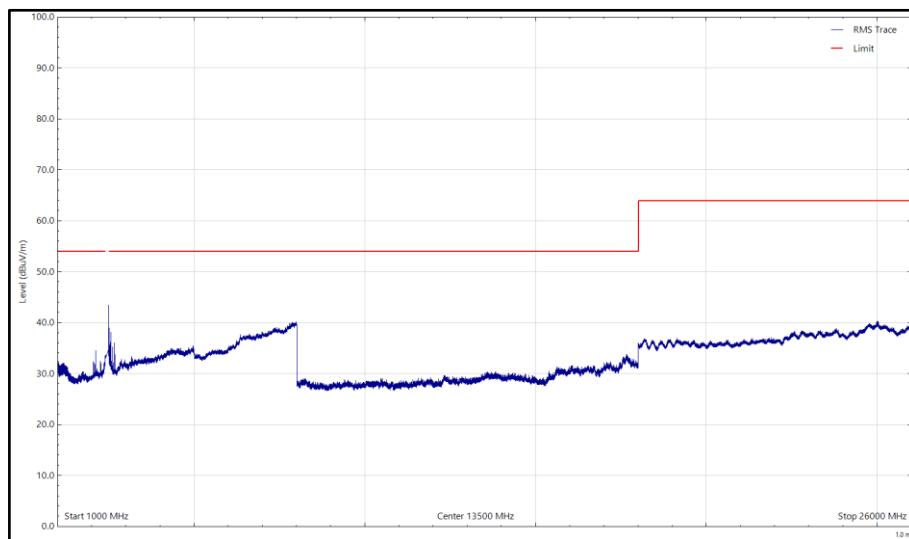
**Figure 4 - 2462 MHz (CH11), 802.11b, 1 GHz to 26 GHz, Horizontal (rms)**



**Figure 5 - 2462 MHz (CH11), 802.11b, 30 MHz to 1 GHz, Vertical (Peak)**



**Figure 6 - 2462 MHz (CH11), 802.11b, 1 GHz to 26 GHz, Vertical (Peak)**



**Figure 7 - 2462 MHz (CH11), 802.11b, 1 GHz to 26 GHz, Vertical (rms)**



FCC 47 CFR Part 15, Limit Clause 15.247 (d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

ISED RSS-247, Limit Clause 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

In addition, radiated emissions which fall in the restricted bands, as defined in RSS-GEN, clause 8.10, must also comply with the radiated emission limits specified in RSS-GEN clause 8.9.



## 2.1.8 Test Location and Test Equipment Used

This test was carried out in RF Chamber 11.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Dual Power Supply Unit	Hewlett Packard	6253A	292	-	O/P Mon
True RMS Multimeter	Fluke	179	4006	12	29-Mar-2023
EMI Test Receiver	Rohde & Schwarz	ESW44	5084	12	17-May-2023
Emissions Software	TÜV SUD	EmX V3.1.6 V.	5125	-	Software
Screened Room (11)	Rainford	Rainford	5136	36	24-Nov-2024
Mast	Maturo	TAM 4.0-P	5158	-	TU
Mast and Turntable Controller	Maturo	Maturo NCD	5159	-	TU
Turntable	Maturo	TT 15WF	5160	-	TU
Antenna (DRG 1-10.5GHz)	Schwarzbeck	BBHA9120B	5215	12	28-May-2023
DRG Horn Antenna (7.5-18GHz)	Schwarzbeck	HWRD750	5216	12	29-May-2023
Antenna (DRG, 15 GHz to 40 GHz)	Schwarzbeck	BBHA 9170	5217	12	25-Jan-2023
Thermo-Hygro-Barometer	PCE Instruments	OCE-THB-40	5470	12	07-Apr-2023
2m SMA Cable	Junkosha	MWX221-02000AMSAMS/A	5518	12	12-Apr-2023
8m N Type Cable	Junkosha	MWX221-08000NMSNMS/B	5522	12	24-Mar-2023
Radio Communications Analyser	Anritsu	MT8821C	5738	12	08-Mar-2023
8 - 18 GHz Amplifier	Wright Technologies	APS06-0061	5595	12	25-Oct-2023
Cable (K Type 2m)	Junkosha	MWX241-02000KMSKMS/B	5934	12	14-May-2023
TRILOG Super Broadband Test Antenna	Schwarzbeck	VULB 9168	5942	24	03-Feb-2024

**Table 17**

TU - Traceability Unscheduled

O/P Mon – Output Monitored using calibrated equipment

### 3 Photographs

#### 3.1 Test Setup Photographs

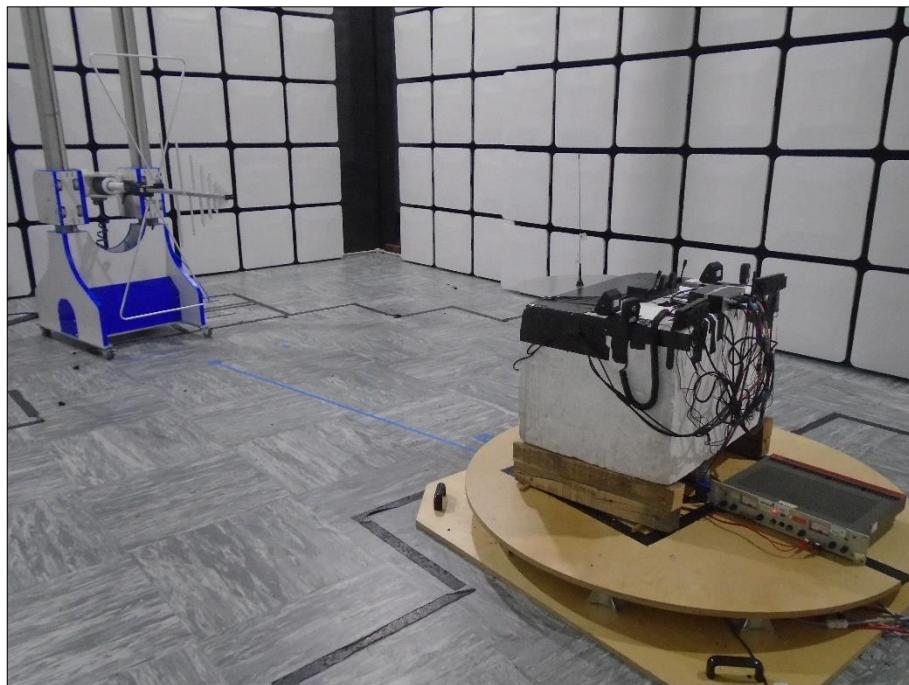


Figure 8 - Test Setup - 30 MHz to 1 GHz

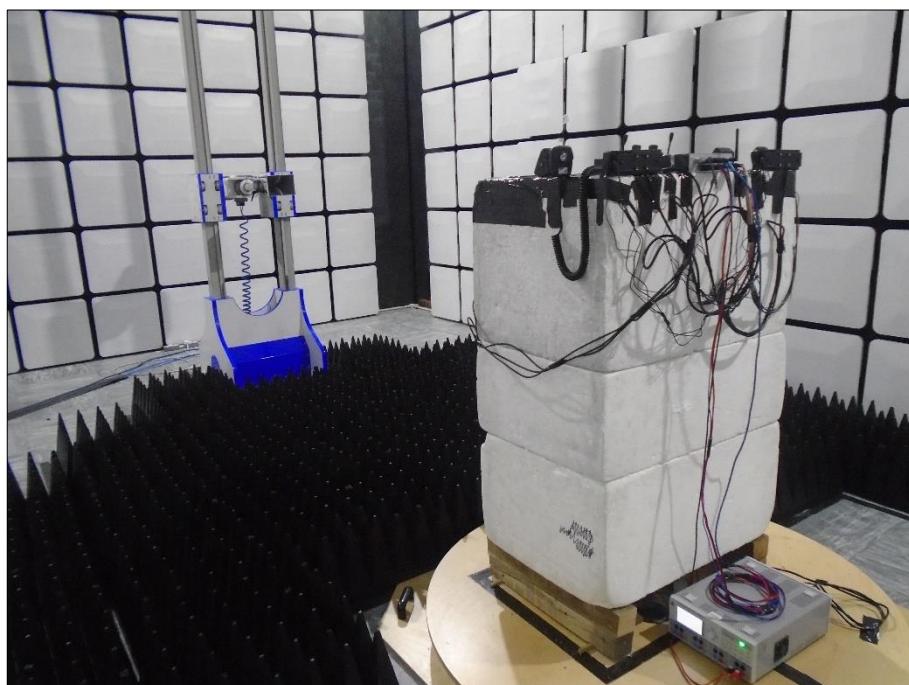
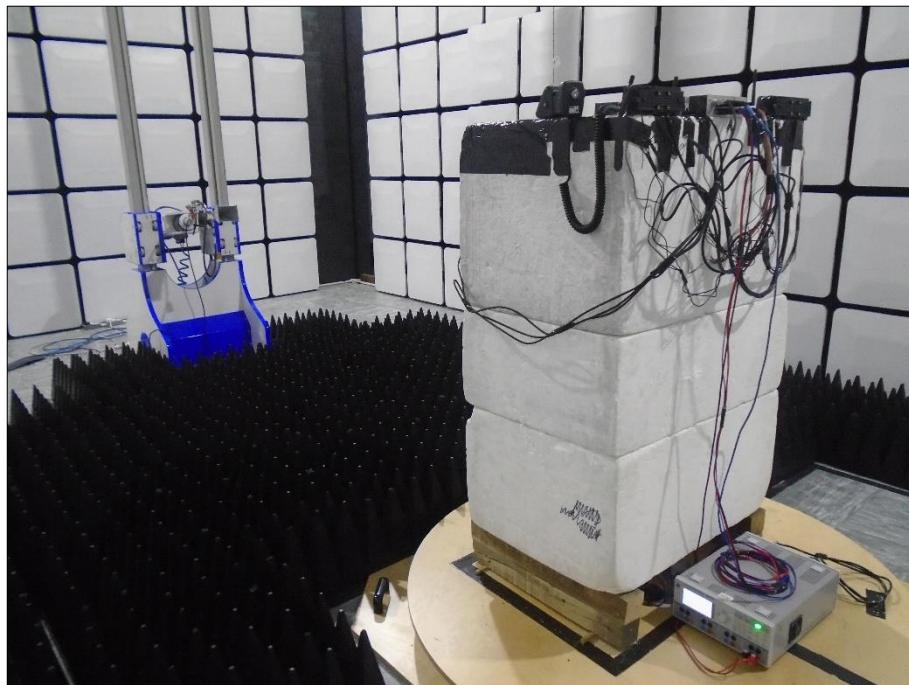


Figure 9 - Test Setup - 1 GHz to 8 GHz



**Figure 10 - Test Setup - 8 GHz to 18 GHz**



**Figure 11 - Test Setup - 18 GHz to 25 GHz**

## 4 Measurement Uncertainty

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

Test Name	Measurement Uncertainty
Spurious Radiated Emissions	30 MHz to 1 GHz: $\pm 5.2$ dB 1 GHz to 40 GHz: $\pm 6.3$ dB

**Table 18**

### Measurement Uncertainty Decision Rule – Accuracy Method

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.