

FCC and ISED Test Report

Sepura Limited

Tetra radio, Model: SCG2221

In accordance with FCC 47 CFR Part 2, FCC 47 CFR Part 15, FCC 47 CFR Part 90, ISED RSS-119, ISED RSS-247 and ISED RSS-GEN (TETRA, Bluetooth Classic, Bluetooth Low Energy and 2.4 GHz WLAN)

Prepared for: Sepura Limited
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FCC ID: XX6SCG2221M IC: 8739A-SCG2221ME



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Document 75956225-05 Issue 01

SIGNATURE

A handwritten signature in black ink, appearing to read "S. 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 2, FCC 47 CFR Part 15, FCC 47 CFR Part 90, ISED RSS-119, 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 in black ink, appearing to read "A. 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 2: 2021, FCC 47 CFR Part 15: 2021, FCC 47 CFR Part 90: 2021, ISED RSS-119: Issue 12 (2015-05), ISED RSS-247: Issue 2 (2017-02) and ISED RSS-GEN: Issue 5 (04-2018) + A1 (03-2019) + A2 (02-2021) for the tests detailed in section 1.3.



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ACCREDITATION

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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 2: 2021 FCC 47 CFR Part 15: 2021 FCC 47 CFR Part 90: 2021 ISED RSS-119: Issue 12 (2015-05) ISED RSS-247: Issue 2 (2017-02) ISED RSS-GEN: Issue 5 (04-2018) + A1 (03-2019) + A2 (02-2021)
Order Number	PLC-PO023123-1
Date	26-July-2022
Date of Receipt of EUT	07-November-2022
Start of Test	15-December-2022
Finish of Test	16-December-2022
Name of Engineer(s)	Ahmad Javid
Related Document(s)	ANSI C63.26: 2015 ANSI C63.10: 2013 ANSI C63.10: 2020



1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 2, FCC 47 CFR Part 15, FCC 47 CFR Part 90, ISED RSS-119, ISED RSS-247 and ISED RSS-GEN is shown below.

Section	Specification Clause						Test Description	Result	Comments/Base Standard
	Part 2	Part 15	Part 90	RSS-119	RSS-247	RSS-GEN			
Configuration and Mode: Simultaneous transmission - TETRA + Bluetooth Classic									
2.1	2.1053	15.209 and 15.247 (d)	90.210 (b)	5.8	3.3 and 5.5	6.13	Radiated Spurious Emissions (Simultaneous Transmission)	Pass	ANSI C63.26: 2015
Configuration and Mode: Simultaneous transmission - TETRA + Bluetooth Low Energy									
2.1	2.1053	15.209 and 15.247 (d)	90.210 (b)	5.8	3.3 and 5.5	6.13	Radiated Spurious Emissions (Simultaneous Transmission)	Pass	ANSI C63.26: 2015
Configuration and Mode: Simultaneous transmission - TETRA + 2.4 GHz WLAN									
2.1	2.1053	15.209 and 15.247 (d)	90.210 (b)	5.8	3.3 and 5.5	6.13	Radiated Spurious Emissions (Simultaneous Transmission)	Pass	ANSI C63.26: 2015

Table 2



1.4 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 – see guidance here	XX6SCG2221M (for variants with the BT/WLAN module) XX6SCG2221X (for variants without the BT/WLAN module)	
IC ID of the product under test – see guidance here	8739A-SCG2221ME (for variants with the BT/WLAN module and expansion board) 8739A-SCG2221M (for variants with the BT/WLAN module) 8739A-SCG2221X (for variants without the BT/WLAN module)	

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 (see guidance here) (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



1.5 Product Information

1.5.1 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.

1.6 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
Model: SCG2221, Serial Number: 1PR002230GP58OM			
0	As supplied by the customer	Not Applicable	Not Applicable

Table 14



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: Simultaneous transmission - Tetra + Bluetooth Classic		
Radiated Spurious Emissions (Simultaneous Transmission)	Ahmad Javid	UKAS
Configuration and Mode: Simultaneous transmission - Tetra + Bluetooth Low Energy		
Radiated Spurious Emissions (Simultaneous Transmission)	Ahmad Javid	UKAS
Configuration and Mode: Simultaneous transmission - TETRA + 2.4 GHz WLAN		
Radiated Spurious Emissions (Simultaneous Transmission)	Ahmad Javid	UKAS

Table 15

Office Address:

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



2 Test Details

2.1 Radiated Spurious Emissions (Simultaneous Transmission)

2.1.1 Specification Reference

FCC 47 CFR Part 2, Clause 2.1053
FCC 47 CFR Part 15, Clause 15.209 and 15.247 (d)
FCC 47 CFR Part 90, Clause 90.210 (b)
ISED RSS-119, Clause 5.8
ISED RSS-247, Clause 3.3 and 5.5
ISED RSS-GEN, Clause 6.13

2.1.2 Equipment Under Test and Modification State

SCG2221, S/N: 1PR002230GP580M - Modification State 0

2.1.3 Date of Test

15-December-2022 to 16-December-2022

2.1.4 Test Method

A preliminary profile of the Radiated Spurious Emissions was obtained up to the 10th harmonic by operating the EUT on a remotely controlled turntable within a semi-anechoic chamber. Measurements of emissions from the EUT were obtained with the Measurement Antenna in both Horizontal and Vertical Polarisations. The profiling produced a list of the worst-case emissions together with the EUT azimuth and antenna polarisation.

Testing was performed in accordance with ANSI C63.26-2015 clause 5.5.

Prescans and final measurements were performed using the direct field strength method.

The Regulatory limit of -13dBm / MHz has been converted to a field strength limit in accordance with ANSI C63.26 clause 5.2.7 equation c)

Example calculation

$E (\text{dBuV/m}) = \text{EIRP (dBm)} - 20\log(d) + 104.8$ where (d) is the measurement distance.

$E (\text{dBuV/m}) = -13 - 20\log(3) + 104.8$

$E (\text{dBuV/m}) = 82.26$

2.1.5 Example Test Setup Diagram

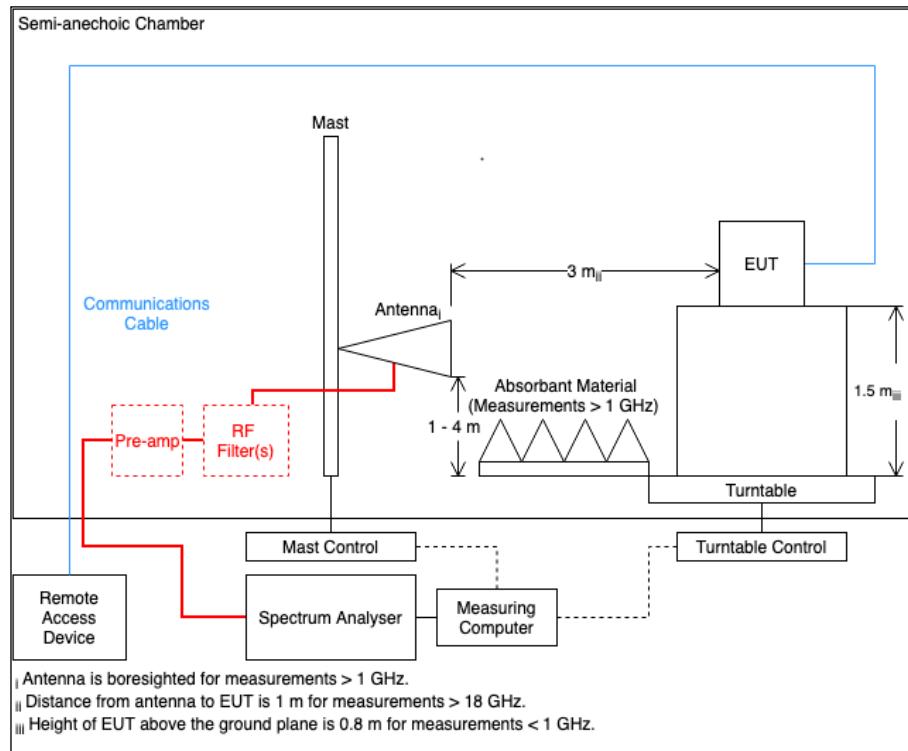


Figure 1

2.1.6 Environmental Conditions

Ambient Temperature 20.6 °C
Relative Humidity 29.8 %

2.1.7 Test Results

Simultaneous transmission - Tetra + Bluetooth Classic

Frequency (MHz)	Level (dB _{uv} /m)	Limit (dB _{uv} /m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
*							

Table 16 - Mid Tetra_BT, 156 MHz & 2441 MHz, 30 MHz to 25 GHz

*No emissions found within 6 dB of the limit.

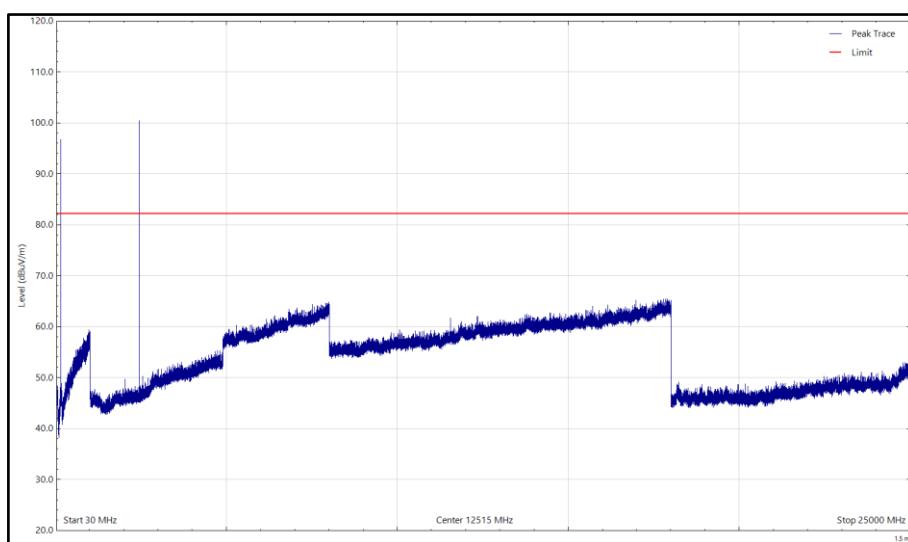


Figure 2 - Mid Tetra_BT, 156 MHz & 2441 MHz, 30 MHz to 25 GHz, Horizontal (Peak)

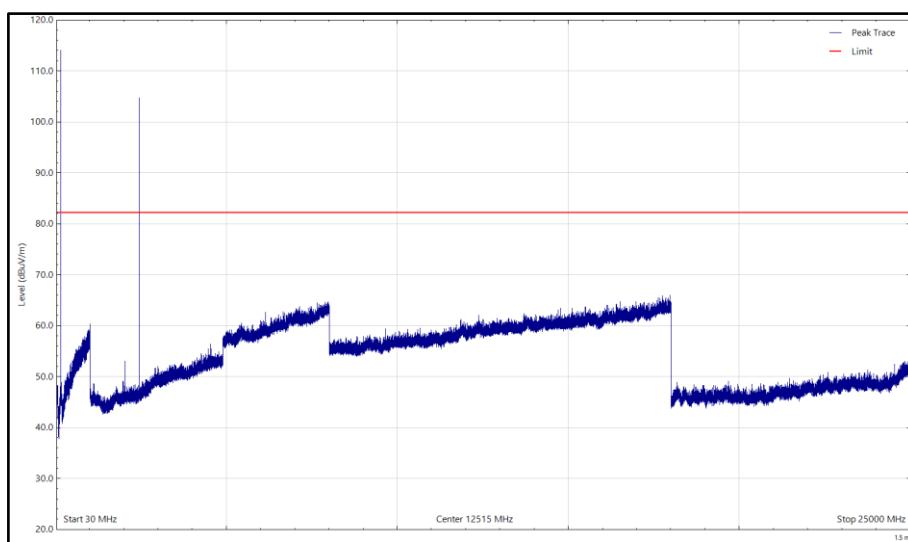


Figure 3 - Mid Tetra_BT, 156 MHz & 2441 MHz, 30 MHz to 25 GHz, Vertical (Peak)



FCC 47 CFR Part 90 and ISED RSS-119

The least stringent limit from the applicable rule parts was used to determine compliance for Radiated Emissions testing of multiple transmission sources.

The least stringent applicable limit was:

Clause	Limit
Part 90.210 (b) / RSS-119 Clause 5.8	-13 dBm (EIRP) / 82.26 dB μ V/m at 3m.

Table 17

Simultaneous transmission - Tetra + Bluetooth Low Energy

Frequency (MHz)	Level (dB _{uv} /m)	Limit (dB _{uv} /m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
*							

Table 18 - Mid Tetra_BLE, 156 MHz & 2440 MHz, 30 MHz to 25 GHz

*No emissions found within 6 dB of the limit.

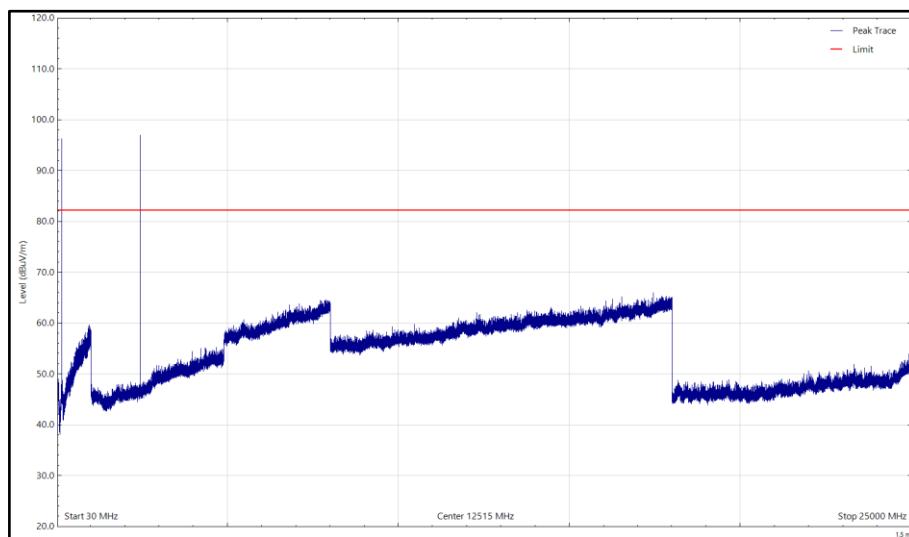


Figure 4 - Mid Tetra_BLE, 156 MHz & 2440 MHz, 30 MHz to 25 GHz, Horizontal (Peak)

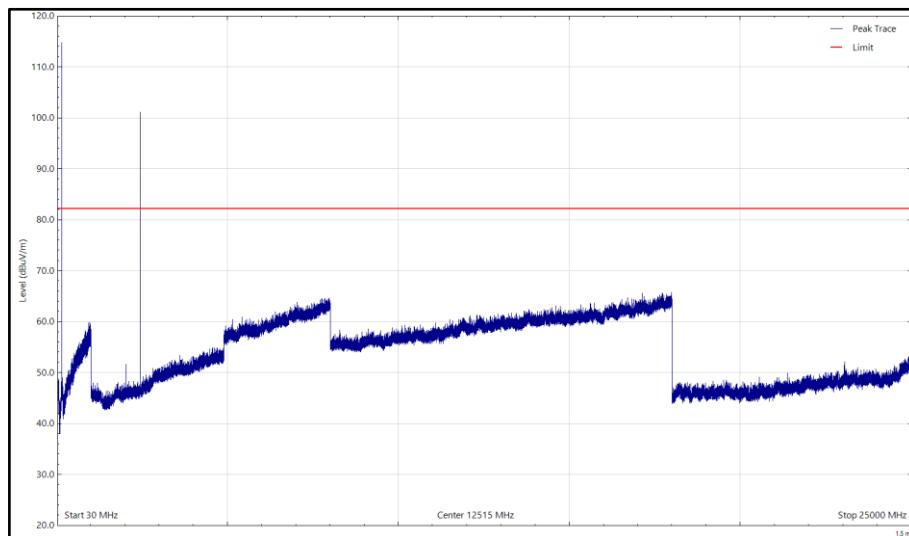


Figure 5 - Mid Tetra_BLE, 156 MHz & 2440 MHz, 30 MHz to 25 GHz, Vertical (Peak)



FCC 47 CFR Part 90 and ISED RSS-119

The least stringent limit from the applicable rule parts was used to determine compliance for Radiated Emissions testing of multiple transmission sources.

The least stringent applicable limit was:

Clause	Limit
Part 90.210 (b) / RSS-119 Clause 5.8	-13 dBm (EIRP) / 82.26 dB μ V/m at 3m.

Table 19

Simultaneous transmission - TETRA + 2.4 GHz WLAN

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

Table 20 - Mid Tetra_2.4 WLAN, 156 MHz & 2437 MHz (CH6), 802.11b, 30 MHz to 25 GHz

*No emissions found within 6 dB of the limit.

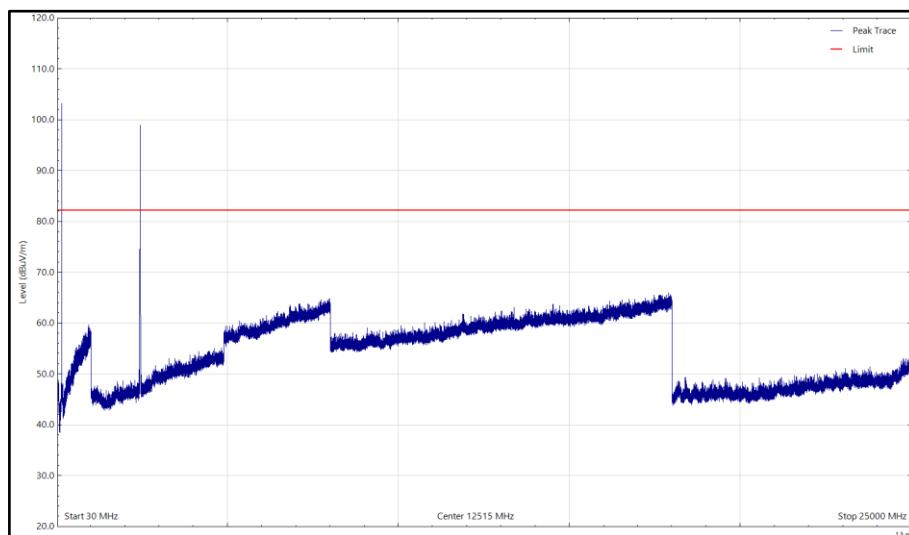


Figure 6 - Mid Tetra_2.4 WLAN, 156 MHz & 2437 MHz (CH6), 802.11b, 30 MHz to 25 GHz, Horizontal (Peak)

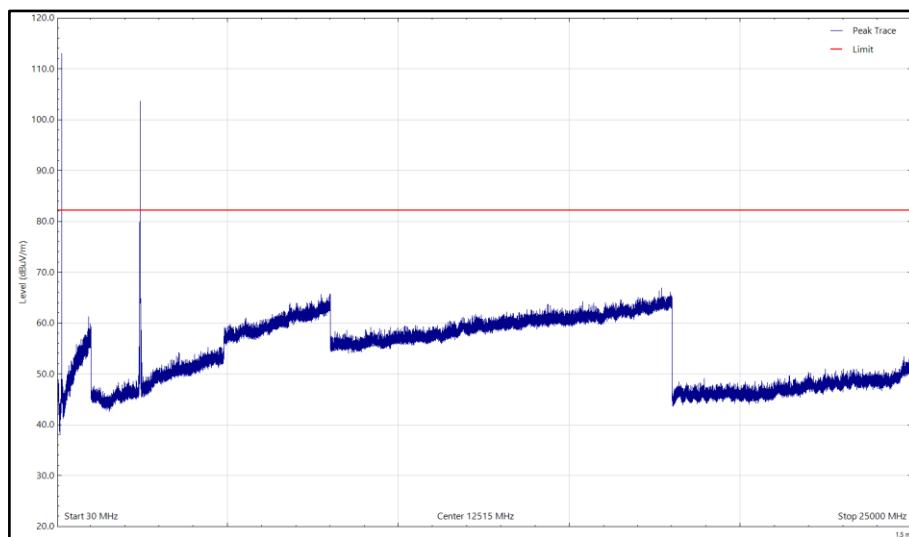


Figure 7 - Mid Tetra_2.4 WLAN, 156 MHz & 2437 MHz (CH6), 802.11b, 30 MHz to 25 GHz, Vertical (Peak)



FCC 47 CFR Part 90 and ISED RSS-119

The least stringent limit from the applicable rule parts was used to determine compliance for Radiated Emissions testing of multiple transmission sources.

The least stringent applicable limit was:

Clause	Limit
Part 90.210 (b) / RSS-119 Clause 5.8	-13 dBm (EIRP) / 82.26 dB μ V/m at 3m.

Table 21



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 Expires
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	5125	-	Software
RF Chamber 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
Pre-Amplifier (18 GHz to 40 GHz)	Schwarzbeck	BBV 9721	5218	12	25-Jan-2023
Preamplifier (30dB 1GHz to 18GHz)	Schwarzbeck	BBV 9718 C	5261	12	08-Apr-2023
Thermo-Hygro-Barometer	PCE Instruments	OCE-THB-40	5470	12	07-Apr-2023
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	5514	12	12-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
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 22

TU - Traceability Unscheduled

O/P Mon – Output Monitored using calibrated equipment

3 Photographs

3.1 Test Setup Photographs

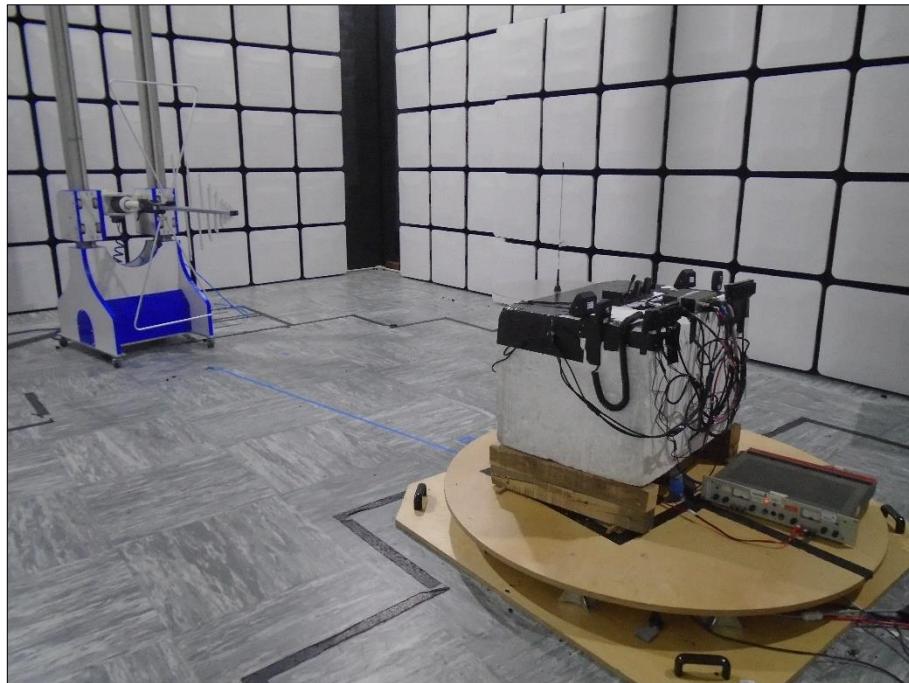


Figure 8 - Test Setup - 30 MHz to 1 GHz

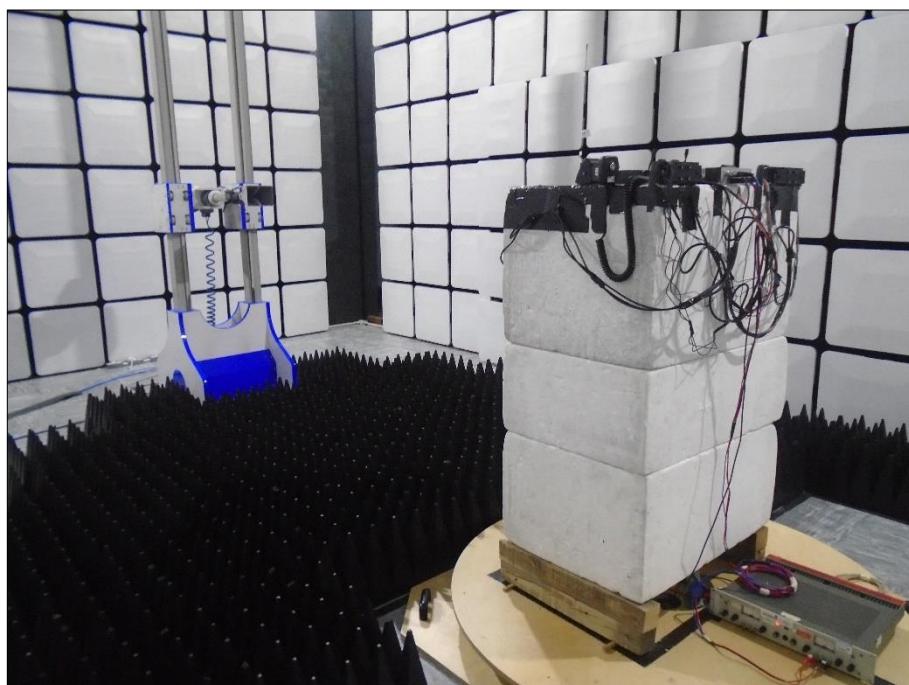


Figure 9 - Test Setup - 1 GHz to 8 GHz

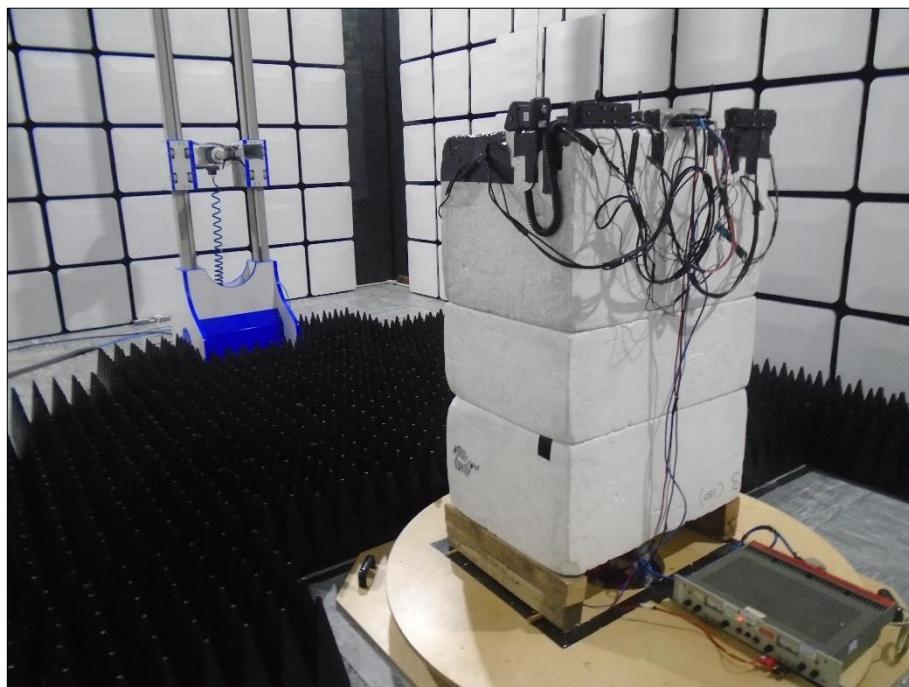


Figure 10 - Test Setup - 8 GHz to 18 GHz

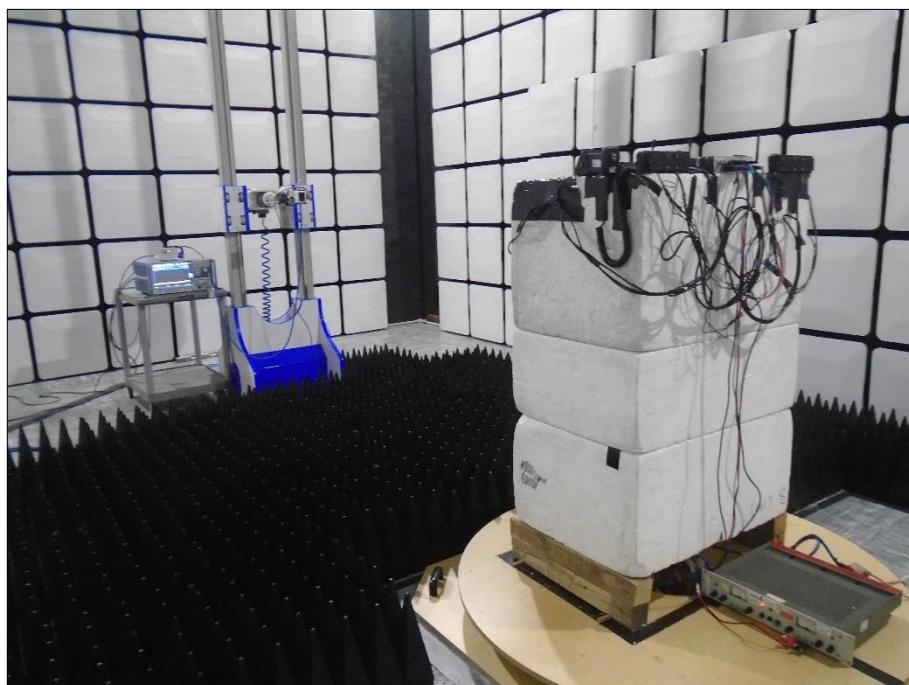


Figure 11 - Test Setup - 18 GHz to 25 GHz

4 Measurement Uncertainty

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

Test Name	Measurement Uncertainty
Radiated Spurious Emissions (Simultaneous Transmission)	30 MHz to 1 GHz: ± 5.2 dB 1 GHz to 40 GHz: ± 6.3 dB

Table 23

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.