

8 Photographs

8.1 EUT Front View



8.2 EUT Reverse Angle





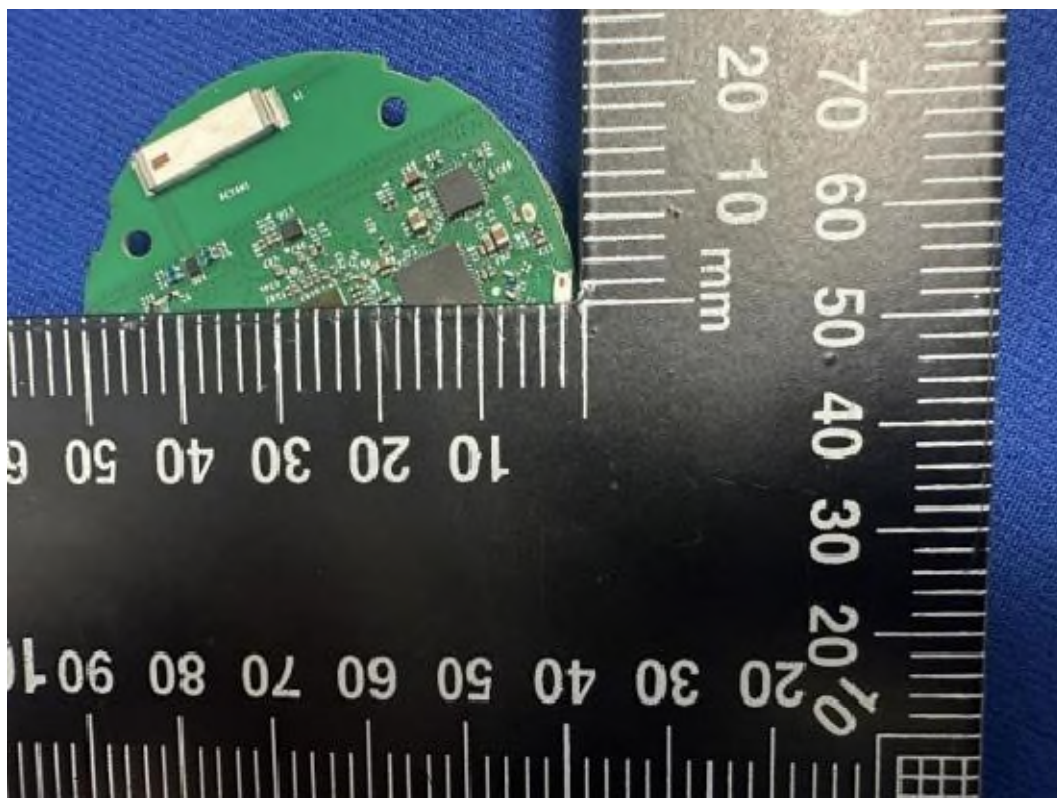
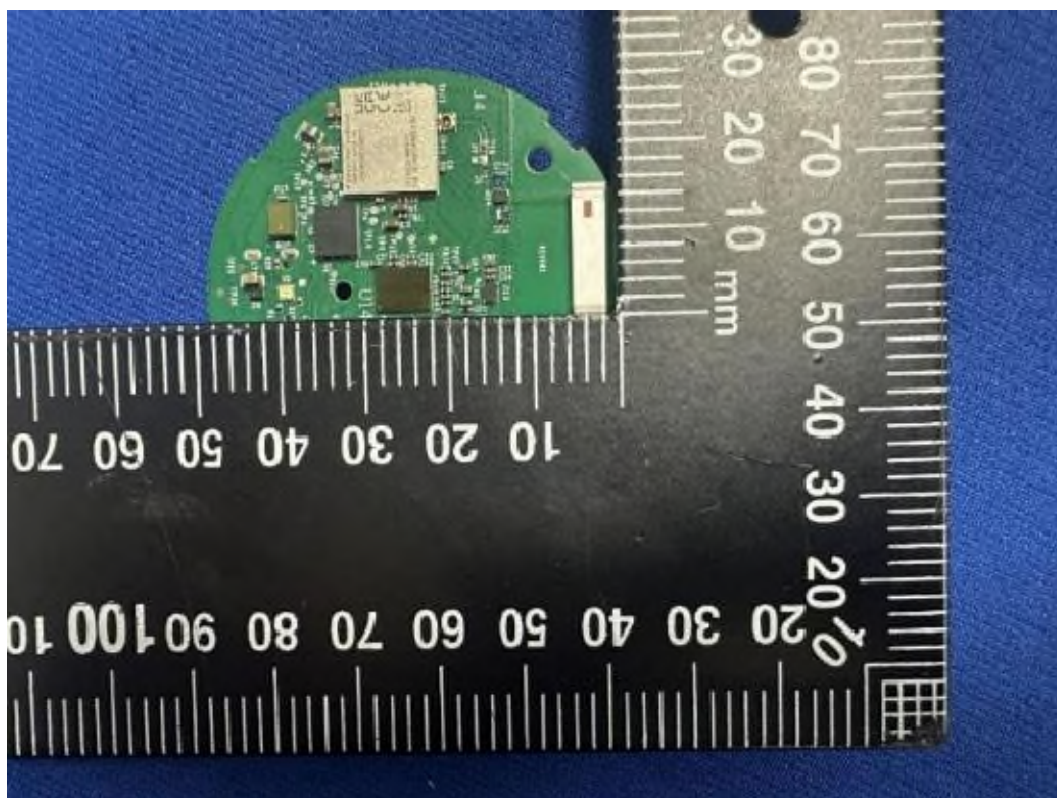
8.3 EUT Left side View



8.4 EUT Right side View



8.5 EUT Antenna Port



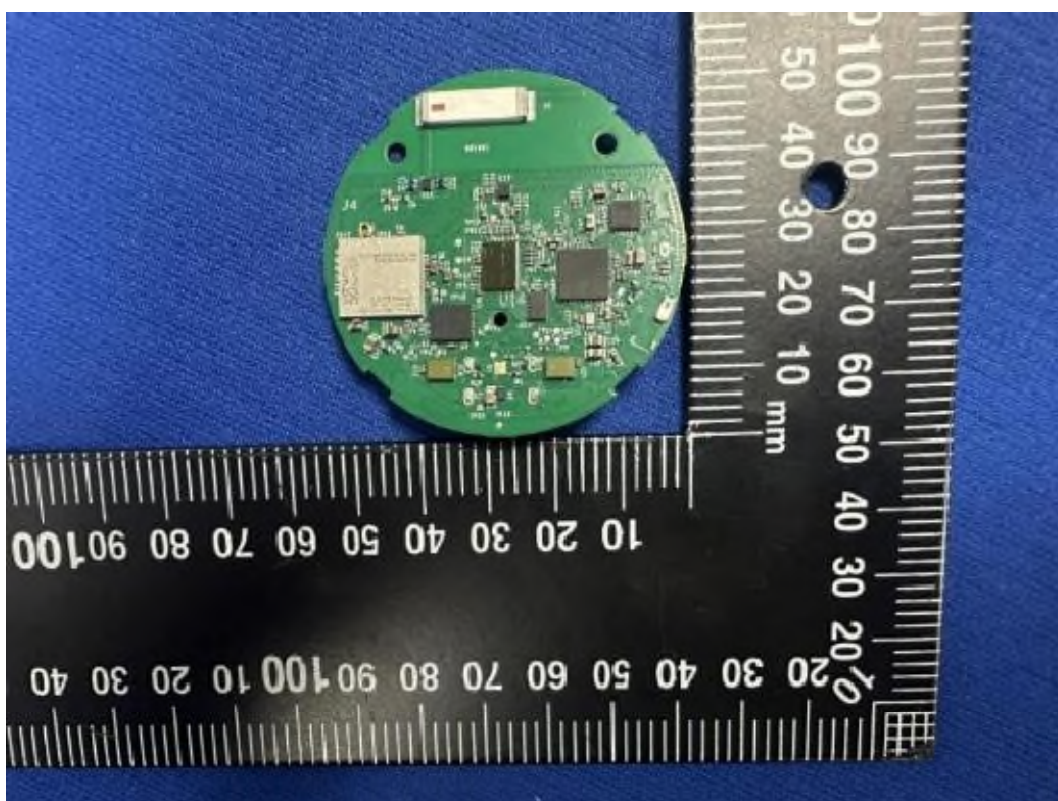
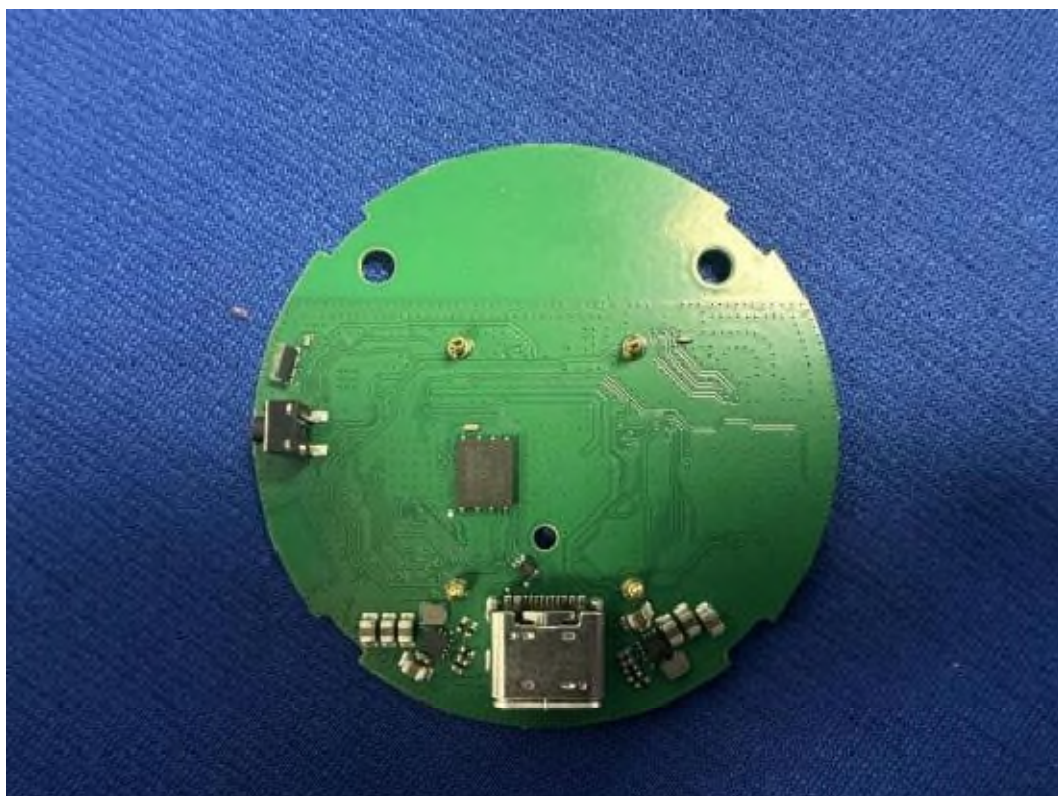
8.6 EUT Display & Controls

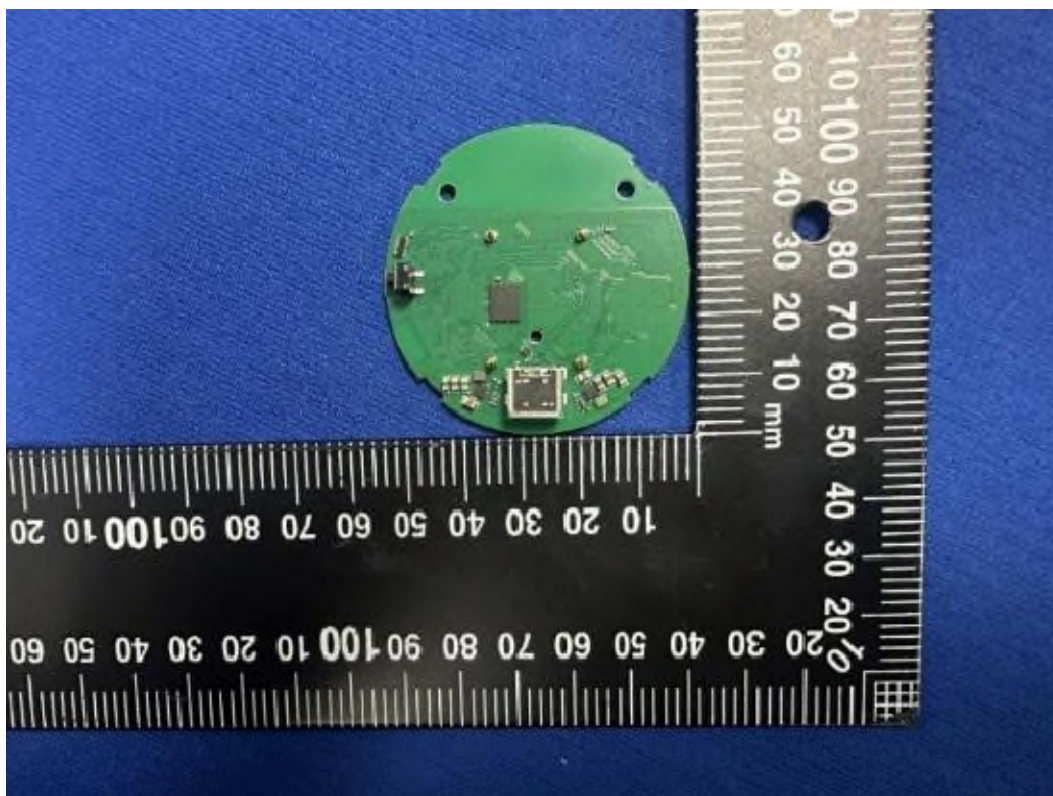


8.7 EUT Internal photos





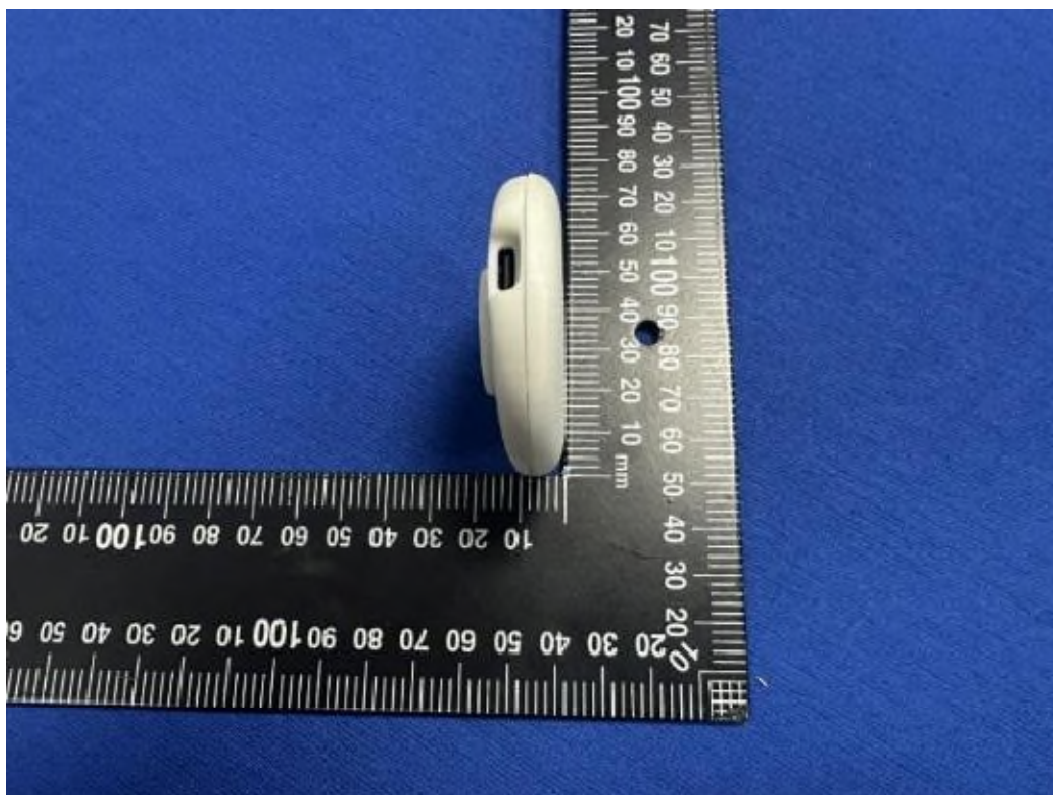




8.8 EUT ID Label



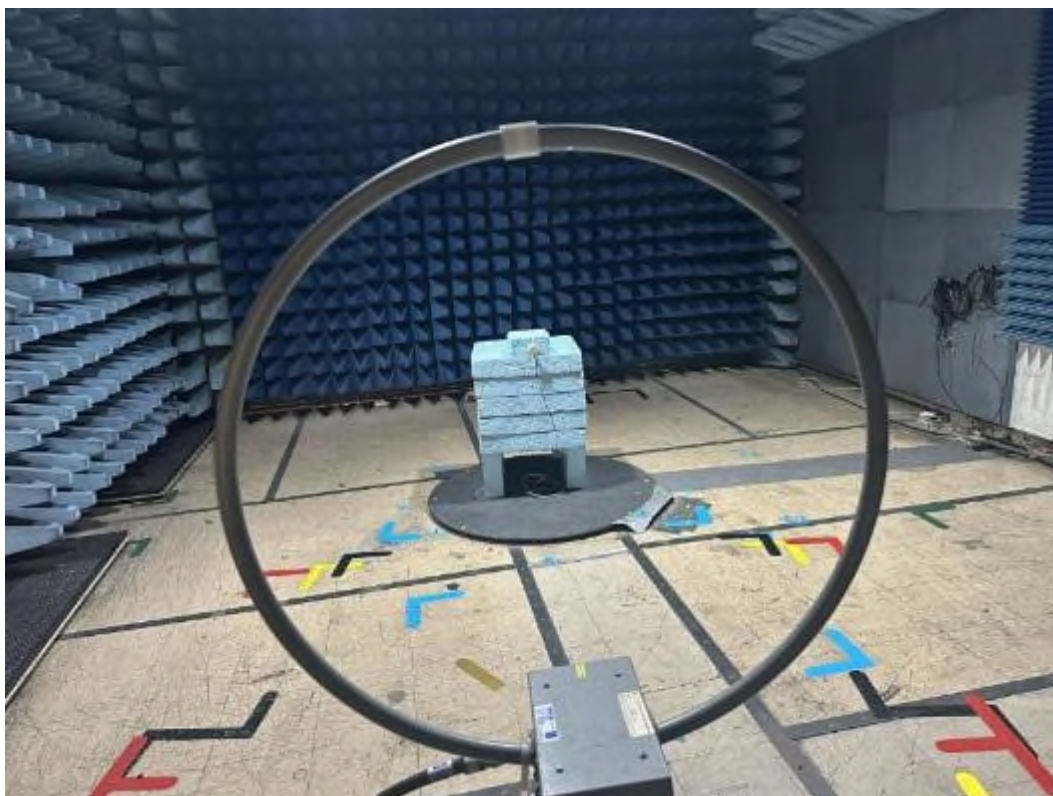
8.9 EUT Chassis



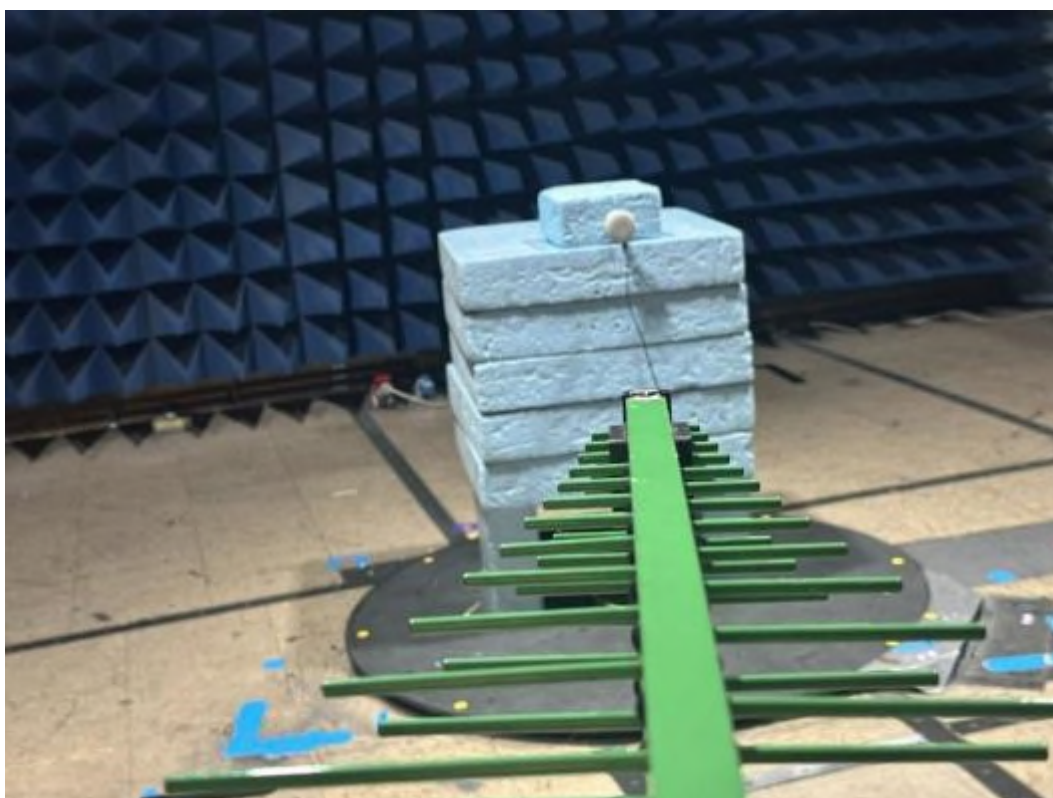
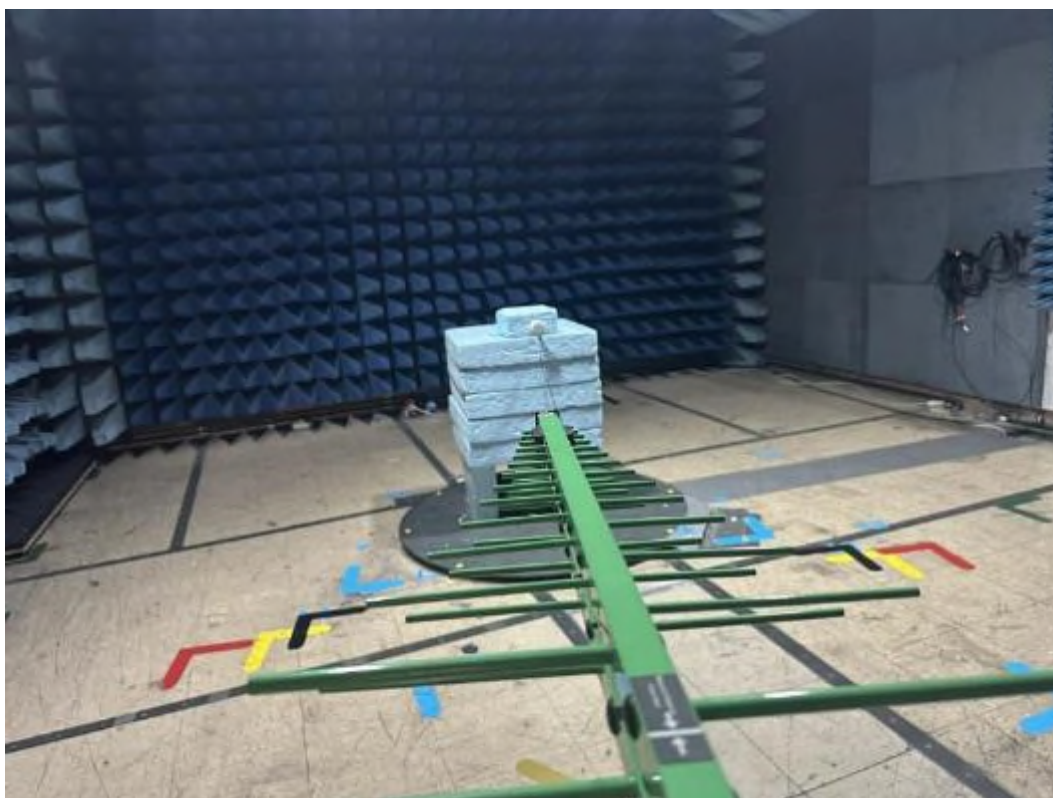
8.10 AC power line conducted emissions

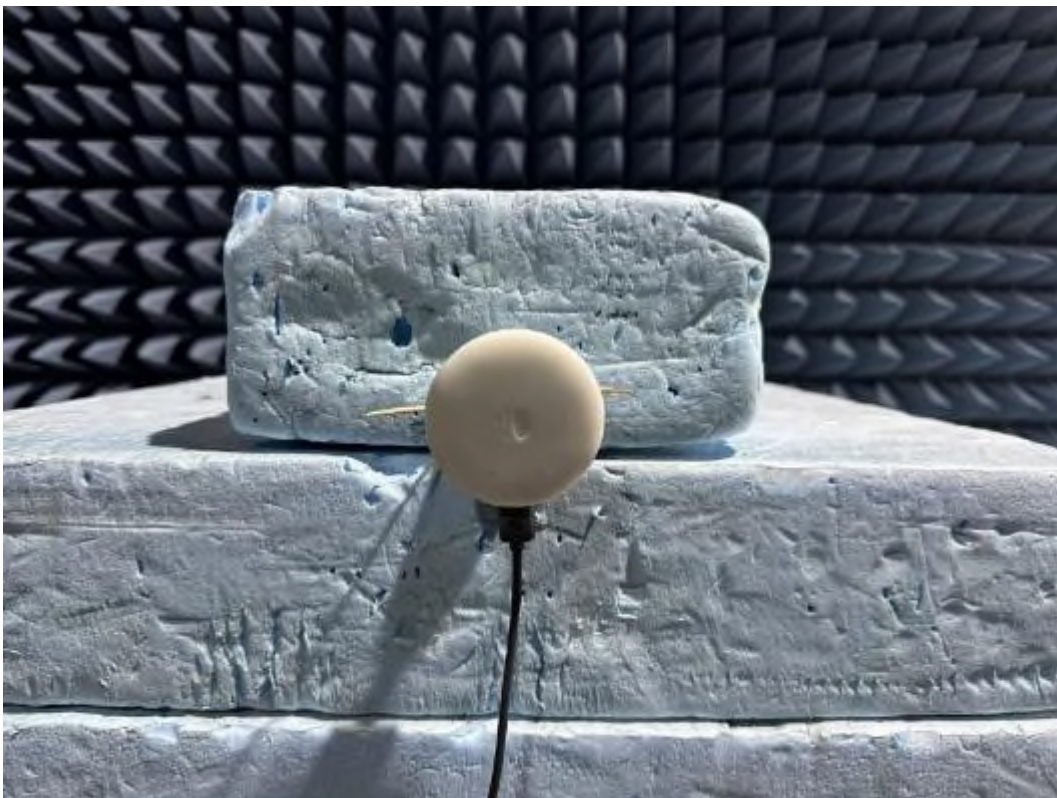


8.11 Radiated emissions 150 kHz - 30 MHz



8.12 Radiated emissions 30 MHz -1 GHz

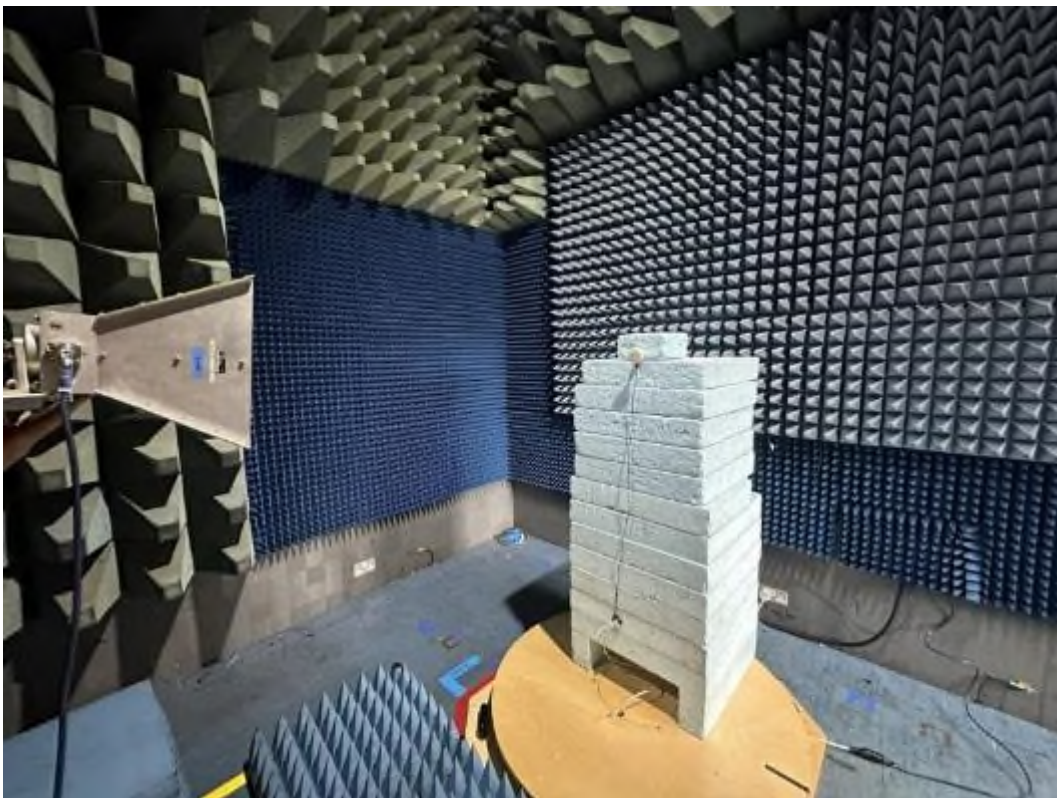
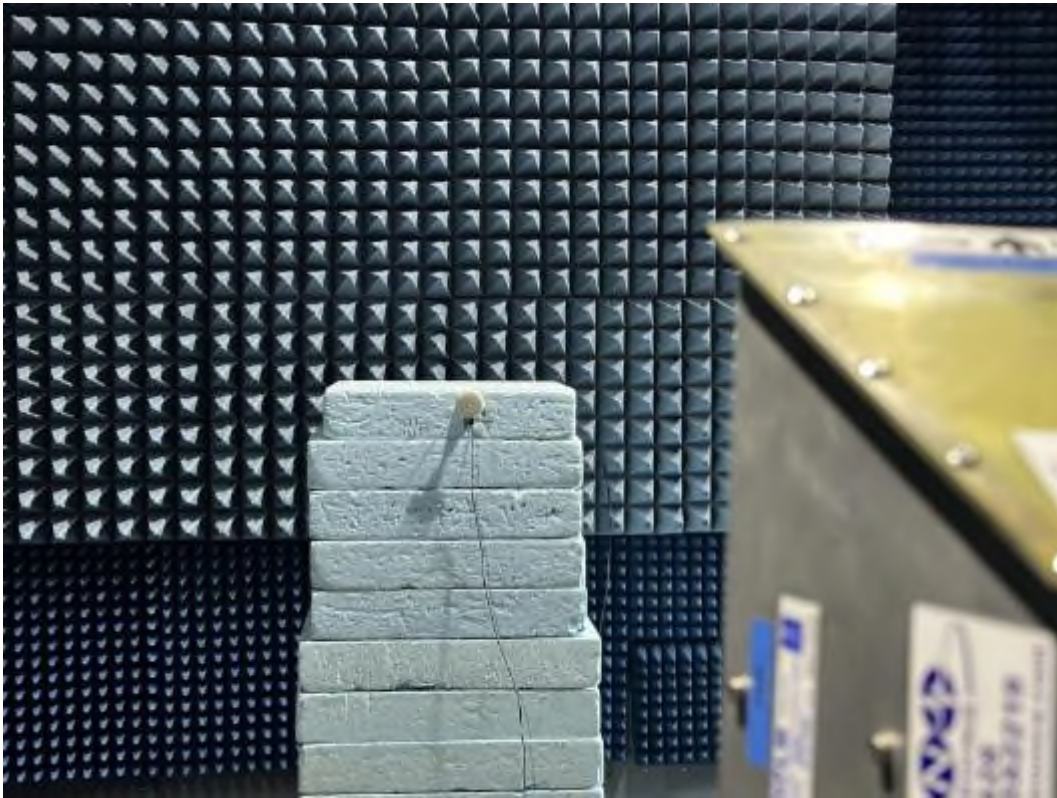






8.13 Radiated emissions above 1 GHz









8.14 Radiated emission diagrams

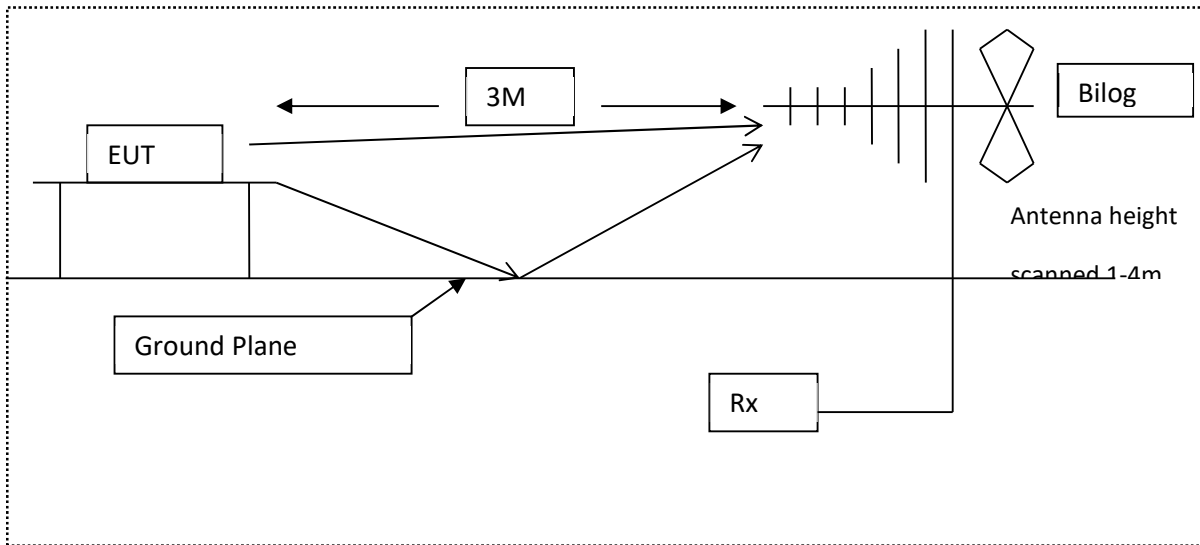


Diagram of the radiated emissions test setup 30 - 1000 MHz

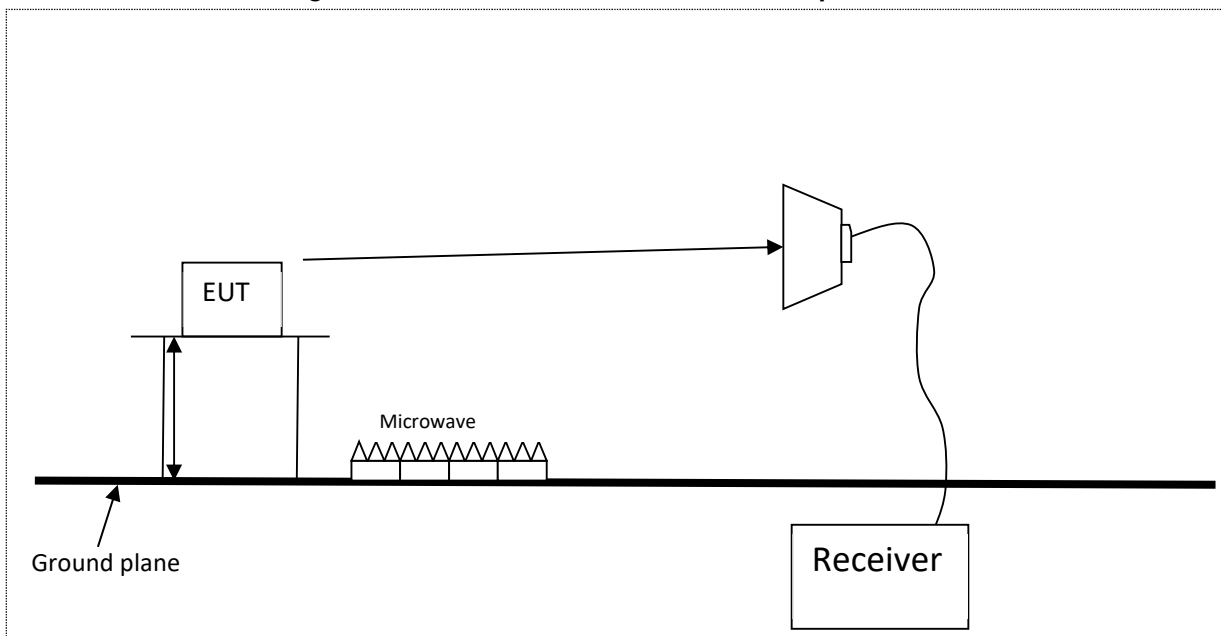


Diagram of the radiated emissions test setup above 1GHz

8.15 AC powerline conducted emission diagram

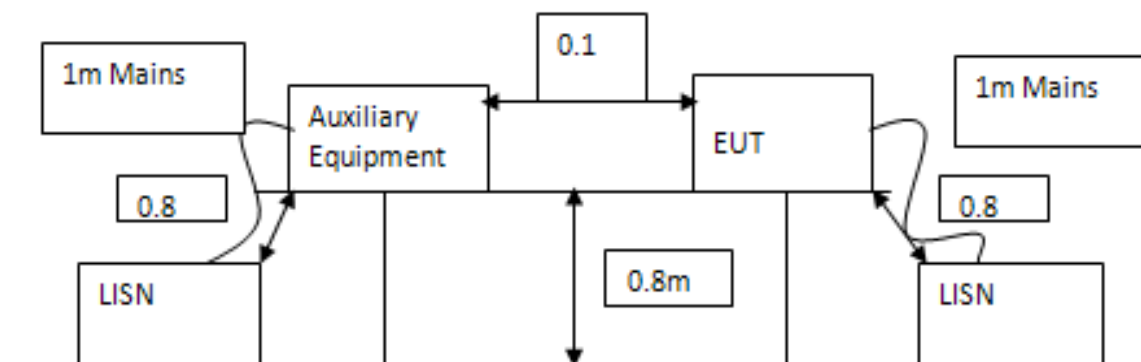


Diagram of the AC conducted emissions test setup

9 Test equipment calibration list

The following is a list of the test equipment used by Kiwa Electrical Compliance to test the unit detailed within this report. In line with our procedures, the equipment was within calibration for the period during which testing was carried out.

KEC No Model		Description	Manufacturer	Calibrated Date	Period
CB02	CB02	Cable RG213 N to N 9.5m Antenna (M)	RN Electronics	09/10/2025	12 months
E010	MN2050	LISN 13A	Chase	21/01/2026	12 months
E035	11947A	Transient Limiter 9 kHz - 200 MHz	Hewlett Packard	06/01/2026	12 months
E255	779	Attenuator 6dB 18GHz	Narda	01/12/2025	12 months
E296-2	11970A	Harmonic Mixer 26.5-40GHz	Hewlett Packard	23/09/2025	12 months
E330	2224-20	Horn Antenna 26.5 - 40 GHz	Flann (FMI)	30/03/2026	12 months
E367	6534/4	Attenuator 20dB 18GHz	Marconi Instruments	01/12/2025	12 months
E411	N9039A	9 kHz - 1 GHz RF Filter Section	Agilent Technologies	10/07/2025	12 months
E412	E4440A	PSA 3 Hz - 26.5 GHz	Agilent Technologies	24/03/2026	24 months
E420	E4438C	Signal Generator 250 kHz - 3 GHz	Agilent Technologies	12/09/2025	12 months
E428	HF906	Horn Antenna 1 - 18 GHz	Rohde & Schwarz	26/01/2026	36 months
E443	07145	Cable RG142 N-N 4m Receiver (M)	Times Fiber Communications	29/08/2025	12 months
E624	E4440A	PSA 3 Hz - 26.5 GHz	Agilent Technologies	10/07/2025	24 months
E743	2017 4/2dB	Attenuator 4/2dB 30-1000MHz	KEC	08/04/2026	12 months
E755	N9030B	PXA Signal Analyser 3 Hz to 50 GHz	Keysight Technologies	29/07/2025	12 months
E856	N9039A	9 kHz - 1 GHz RF Filter Section	Agilent Technologies	24/03/2026	24 months
E904	5086-7805	Pre-Amplifier 1GHz - 26.5GHz	Hewlett Packard	04/07/2025	12 months
E910	RPR3006W	RF Power Sensor 10MHz - 8GHz USB	DARE Instruments	27/02/2026	12 months
E972	WRCGV10	Filter Band Reject 2400 to 2483.5 MHz	Wainwright Instruments	#20/07/2026	24 months
H071	N9010B	EXA Signal Analyser 10 Hz to 44 GHz	Keysight Technologies	09/07/2025	24 months
LPE364	CBL6112A	Antenna BiLog 30MHz - 2GHz	Chase Electronics Ltd	04/08/2025	36 months
NSA-M	NSA - M	NSA - Site M	KEC	10/12/2024	36 months
P240	290-10dB	Attenuator 10dB 18GHz	Midwest Microwave	02/10/2025	12 months
TMS78	3160-08	Horn Std Gain 12.4-18 GHz	ETS Systems	30/10/2025	12 months
TMS79	3160-09	Horn Std Gain 18-26.5 GHz	ETS Systems	21/07/2025	12 months
TMS81	6502	Antenna Active Loop	EMCO	02/09/2025	24 months
ZSW1	V2.5.7	KEC Measurement Software Suite	KEC	Not Applicable	

Equipment items marked # have been re-calibrated since/during date of tests

10 Auxiliary and peripheral equipment

10.1 Customer supplied equipment

Item No.	Model No.	Description	Manufacturer	Serial No.
1	P91F	Laptop PC	DELL	HGG6NN3

10.2 Kiwa Electrical Compliance supplied equipment

No Kiwa Electrical Compliance supplied equipment was used.

11 Condition of the equipment tested

In order for the EUT to produce the results shown within this report the following modifications, if any, were implemented.

11.1 Modifications before test

No modifications were made before test by Kiwa Electrical Compliance.

11.2 Modifications during test

No modifications were made during test by Kiwa Electrical Compliance.

12 Description of test sites

Site A	Radio Laboratory and Anechoic Chamber
Site B	Semi-Anechoic Chamber and Control Room FCC Registration No. 654321, ISED Registration No. 5612A-4
Site C	Transient Laboratory
Site D	Screened Room (Conducted Immunity)
Site E	Screened Room (Control Room for Site D)
Site F	Screened Room (Conducted Emissions)
Site G	Screened Room (Control Room for Site H)
Site H	3m Semi-Anechoic Chamber (indoor OATS) FCC Registration No. 654321, ISED Registration No. 5612A-2, VCCI Registration No. 4065
Site J	Transient Laboratory
Site K	Screened Room (Control Room for Site M)
Site M	3m Semi-Anechoic Chamber (indoor OATS) FCC Registration No. 654321, ISED Registration No. 5612A-3
Site N	Radio Laboratory
Site Q	Fully-Anechoic Chamber
Site OATS 3m and 10m Open Area Test Site	FCC Registration No. 654321, ISED Registration No. 5612A-1
Site R	Screened Room (Conducted Immunity)
Site S	Safety Laboratory
Site T	Transient Laboratory

CAB identifier as issued by Innovation, Science and Economic Development Canada is UK0002
CAB identifier as issued by FCC is UK2015

13 Abbreviations and units

%	Percent	dBμV	decibels relative to 1μV
λ	Wavelength	dBμV/m	decibels relative to 1μV/m
μA/m	microAmps per metre	dBc	decibels relative to Carrier
μV	microVolts	dBd	decibels relative to dipole gain
μW	microWatts	dBi	decibels relative to isotropic gain
AC	Alternating Current	dBm	decibels relative to 1mW
ACK	ACKnowledgement	dB	decibels relative to a maximum value
ACP	Adjacent Channel Power	dBW	decibels relative to 1W
AFA	Adaptive Frequency Agility	DC	Direct Current
ALSE	Absorber Lined Screened Enclosure	DFS	Dynamic Frequency Selection
AM	Amplitude Modulation	DMO	Dynamic Modulation Order
Amb	Ambient	DSSS	Direct Sequence Spread Spectrum
ANSI	American National Standards Institute	DTA	Digital Transmission Analyser
ATPC	Automatic Transmit Power Control	EIRP	Equivalent Isotropic Radiated Power
AVG	Average	emf	electromotive force
AWGN	Additive White Gaussian Noise	ERC	European Radiocommunications Committee
BER	Bit Error Rate	ERP	Effective Radiated Power
BPSK	Binary Phase Shift Keying	ETSI	European Telecommunications Standards Institute
BT	Bluetooth	EU	European Union
BLE	Bluetooth Low Energy	EUT	Equipment Under Test
BW	Bandwidth	FCC	Federal Communications Commission
°C	Degrees Celsius	FER	Frame Error Rate
C/I	Carrier / Interferer	FHSS	Frequency Hopping Spread Spectrum
CAC	Channel Availability Check	FM	Frequency Modulation
CCA	Clear Channel Assessment	FSK	Frequency Shift Keying
CEPT	European Conference of Postal and Telecommunications Administrations	FSS	Fixed Satellite Service
CFR	Code of Federal Regulations	g	Grams
CISPR	Comité International Spécial des Perturbations Radioélectriques	GHz	GigaHertz
cm	centimetre	GNSS	Global Navigation Satellite System
COFDM	Coherent OFDM	GPS	Global Positioning System
COT	Channel Occupancy Time	Hz	Hertz
CS	Channel Spacing	IEEE	Institute of Electrical and Electronics Engineers
CW	Continuous Wave	IF	Intermediate Frequency
DAA	Detect And Avoid	ISED	Innovation Science and Economic Development
dB	decibels	ITU	International Telecommunications Union
dBμA/m	decibels relative to 1μA/m	KDB	Knowledge DataBase

kg	kilogram	pW	picoWatts
kHz	kiloHertz	QAM	Quadrature Amplitude Modulation
kPa	Kilopascal	QP	Quasi Peak
LBT	Listen Before Talk	QPSK	Quadrature Phase Shift Keying
LISN	Line Impedance Stabilisation Network	RBW	Resolution Band Width
LNA	Low Noise Amplifier	RED	Radio Equipment Directive
LNB	Low Noise Block	R&TTE	Radio and Telecommunication Terminal Equipment
LO	Local Oscillator	Ref	Reference
m	metre	RF	Radio Frequency
mA	milliAmps	RFC	Remote Frequency Control
max	maximum	RFID	Radio Frequency IDentification
Mbit/s	MegaBits per second	RLAN	Radio Local Area Network
MCS	Modulation and Coding Scheme	RMS	Root Mean Square
MHz	MegaHertz	RNSS	Radio Navigation Satellite Service
mic	Microphone	RSL	Received Signal Level
MIMO	Multiple Input, Multiple Output	RSSI	Received Signal Strength Indicator
min	minimum	RTP	Room Temperature and Pressure
mm	millimetres	RTPC	Remote Transmit Power Control
ms	milliseconds	Rx	Receiver
mW	milliWatts	s	Seconds
NA	Not Applicable	SINAD	Signal to Noise And Distortion
NFC	Near Field Communications	SRD	Short Range Device
nom	Nominal	Tx	Transmitter
nW	nanoWatt	UKAS	United Kingdom Accreditation Service
OATS	Open Area Test Site	UKCA	United Kingdom Conformity Assessed
OBW	Occupied Band Width	UKRER	United Kingdom Radio Equipment Regulations
OCW	Occupied Channel Width	UHF	Ultra High Frequency
OFDM	Orthogonal Frequency Division Multiplexing	U-NII	Unlicensed National Information Infrastructure
OOB	Out Of Band	USB	Universal Serial Bus
ppm	Parts per million	UWB	Ultra Wide Band
PER	Packet Error Rate	V	Volts
PK	Peak	V/m	Volts per metre
PMR	Private Mobile Radio	VBW	Video Band Width
PRBS	Pseudo Random Bit Sequence	VHF	Very High Frequency
PRF	Pulse Repetition Frequency	VSAT	Very Small Aperture Terminal
PSD	Power Spectral Density	W	Watts
PSU	Power Supply Unit		

14 Revision History

Issue Number	Revision History	Page Reference(s)
01	First Issue	-

===== END OF TEST REPORT =====