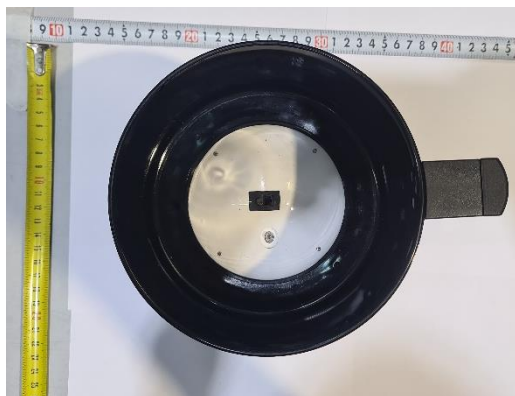


Test specification:	EUT photographs		
Test procedure:	To delete		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	16-Jun-24		
Temperature: 24.3 °C	Air Pressure: 1008 hPa	Relative Humidity: 43 %	Power Supply: 3.7 VDC
Remarks:			

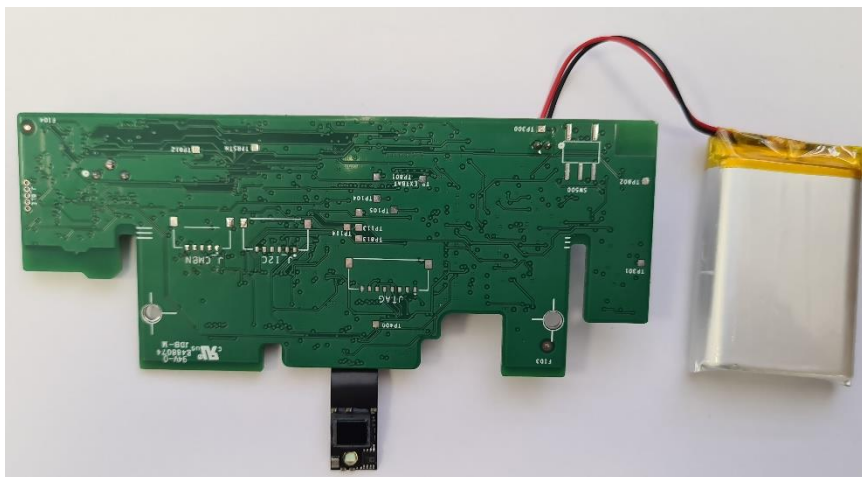
9.2 Internal

Photograph 9.2.1 Internal view

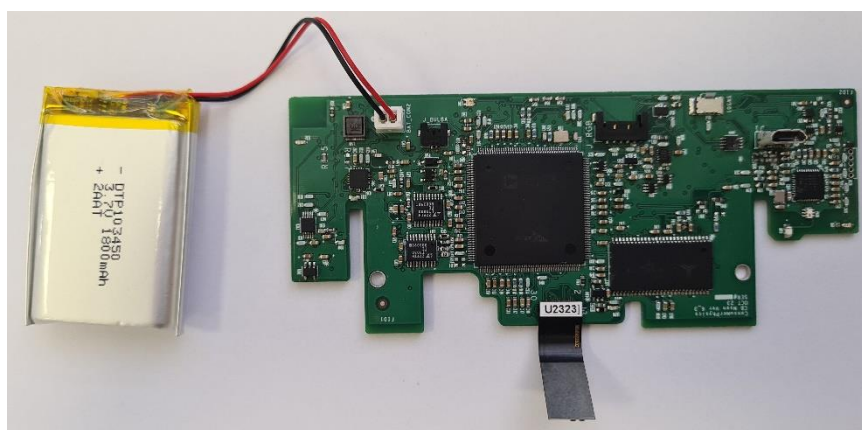


Test specification:	EUT photographs		
Test procedure:	To delete		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	16-Jun-24		
Temperature: 24.3 °C	Air Pressure: 1008 hPa	Relative Humidity: 43 %	Power Supply: 3.7 VDC
Remarks:			

Photograph 9.2.2 Component side of the RF PCB



Photograph 9.2.3 Print side of the RF PCB



10 APPENDIX A Test equipment and ancillaries used for tests

HL No	Description	Manufacturer	Model	Ser. No.	Last Cal.	Due Cal.
4295	Microwave Cable Assembly, 18.0 GHz, 3.4 m, SMA/SMA	Huber-Suhner	Sucoflex P103	NA	25-Oct-23	25-Oct-24
4576	LISN Two-line V-Network 50 Ohm / 50 uH + 5 Ohm, 16A, MIL STD 461E, CISPR 16-1	Fischer Custom Communications. INC.	FCC-Lisn_50/250-16--2-07	2004	09-Oct-23	09-Oct-24
4603	Horn Antenna, 1 - 18 GHz	Schwarzbeck mess-elektronik	BBHA 9120 D	9120D-611	08-Feb-24	08-Feb-25
5111	RF cable, 40 GHz, 5.5 m, K-type	Huber-Suhner	SF102EA/11SK/11SK/5500 MM	502493/2EA	16-Nov-23	16-Nov-24
5420	Power limiter, 10 MHz to 26.5 MHz	Keysight Technologies	N9356C	MY56010435	07-Nov-23	07-Nov-24
6208	MXE EMI Receiver, 3 Hz to 44 GHz	Keysight Technologies	N9038A	MY56400070	25-Feb-24	25-Feb-25
6210	Transient limiter, 10 kHz to 200 MHz	Agilent Technologies	11947A	3107A04119	25-Feb-24	25-Feb-25
6238	Antenna, broadband horn, 14 GHz to 40 GHz	Schwarzbeck Mess-Elektronik	BBHA 9170	BBHA9170214	14-Mar-24	14-Mar-25
6573	Antenna Biconilog, 30 -1000 MHz	Chase	CBL6141	4025	06-Jan-22	06-Jan-25
6574	Antenna, double ridged waveguide horn, 1.0 to 18.0 GHz	ARA Inc	DRG-118/A	17188	12-Oct-23	12-Oct-24
6576	Chambers SAC 3 m	Ets-Lindgren	Unknown	NA	07-Aug-23	07-Aug-24
6678	Low Noise Amplifier (LNA) 1-18 GHz	Spacek Labs	SL-1018-56-5	17J29	16-Nov-23	16-Nov-24
6679	Antenna, Loop, Active, 10 (9) kHz - 30 MHz	EMCO	6502	3424	29-Feb-24	28-Feb-25
6892	EMI Receiver, 3 Hz to 44 GHz	Keysight Technologies	N9038A-MXE 40 GHz	MY55420200	12-Jun-23	12-Jun-24
6907	Variable Transformer	Unknown	Unknown	NA	03-Aug-23	03-Aug-24
6934	High Pass Filter, 3000-18000 MHz	Wainwright Instruments	WHKX12-2805-3000-18000-40EF	1	06-Nov-23	06-Jun-25
7540	Low noise preamplifier, 1-18 GHz	Schwarzbeck	BBV 9718D	00026	15-Oct-23	15-Oct-24
7737	Low-Noise Amplifier 18.0-26.5GHz	Spacek Labs	AMF-5F-18002650-30-10P	NA	13-Feb-24	13-Feb-25
8079	Cable CI tests, 18 m, BNC-BNC	Hermon Laboratories	M17/128-RG400	001	30-Jan-24	30-Jan-25
8092	RF cable, 18GHz, 5m, N-m 90° to N-m	Huber+Suhner	Sucoflex 118	502177/118	28-Jan-24	28-Jan-25

11 APPENDIX B Test laboratory description

Tests were performed at QualiTech – subdivision of Hermon Laboratories, which is a fully independent, private, EMC, Radio, Safety, and Environmental testing facility.

QualiTech is recognized and accredited by the Federal Communications Commission (USA) for relevant parts of Code of Federal Regulations 47 (CFR 47), Test Firm Registration Number is 488238, Designation Number is IL1006; Recognized by Innovation, Science and Economic Development Canada for wireless and terminal testing (ISED), CAB identifier is IL1006, ISED# number 4808A; Certified by VCCI, Japan (the registration numbers are C-13775, G-20167, R-13404, T-20046).

The laboratory is accredited by American Association for Laboratory Accreditation (USA) according to ISO/IEC 17025 for electromagnetic compatibility, product safety, telecommunications testing, environmental simulation and calibration (for exact scope please refer to Certificate No. 1633.01 and 1633.02).

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Person for contact: Mr. M. Nikishin, Head of Department, EMC and Radio

12 APPENDIX C Abbreviations and acronyms

A	ampere	LISN	line impedance stabilization network
AC	alternating current	m	meter
A/m	ampere per meter	MHz	megahertz
AM	amplitude modulation	MIL	military
ASSL	abnormal steady state limits	mm	millimeter
ATP	acceptance test procedure	ms	millisecond
AVRG	average (detector)	μF	microfarad
BB	broad band	μs	microsecond
cm	centimeter	NA	not applicable
dB	decibel	NB	narrow band
dBm	decibel referred to one milliwatt	NP	normal performance
dB(μA)	decibel referred to one microampere	NSSL	normal steady state limits
dBμV	decibel referred to one microvolt	NT	not tested
dBμV/m	decibel referred to one microvolt per meter	OATS	open area test site
DC	direct current	Ω	Ohm
EMI	electromagnetic interference	QP	quasi-peak
ESS	environmental stress screening	PBIT	periodic built in test
ESSL	emergency steady state limits	PM	pulse modulation
EUT	equipment under test	PS	power supply
FTE	functional test equipment	RE	radiated emission
GHz	gigahertz	RF	radio frequency
GND	ground	rms	root mean square
H	height	s	second
HL	Hermon laboratories	STD	standard
Hz	hertz	TBD	to be defined
k	kilo	V	volt
kHz	kilohertz	VA	volt-ampere
kV	kilovolt	W	width
L	length	W	watt

13 APPENDIX D Specification references

FCC 47CFR part 15: 2019	Radio Frequency Devices
ANSI C63.10: 2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
ANSI C63.4: 2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz