

Report on the Radio Testing

For

Current Health Limited

on

Wearable Gen 1.1

Report no. TRA-052152-47-00B

18 December 2020

RF915 7.0



Report Number: TRA-052152-47-00B
Issue: A

REPORT ON THE RADIO TESTING OF A
Current Health Limited
Wearable Gen 1.1
WITH RESPECT TO SPECIFICATION
FCC 47CFR 15.247

TEST DATE: 2020-10-09 to 2020-10-20

Written by:

Michael Else
Daniel Moncayola
Radio Test Engineer

Approved by:

John Charters
Lab Manager

Date: 18 December 2020

Disclaimers:

- [1] THIS DOCUMENT MAY BE REPRODUCED ONLY IN ITS ENTIRETY AND WITHOUT CHANGE
- [2] THE RESULTS CONTAINED IN THIS DOCUMENT RELATE ONLY TO THE ITEM(S) TESTED

1 Revision Record

<i>Issue Number</i>	<i>Issue Date</i>	<i>Revision History</i>
A	18 December 2020	Original

2 Summary

TEST REPORT NUMBER: TRA-052152-47-00B

WORKS ORDER NUMBER: TRA-052152-00

PURPOSE OF TEST: Class II Permissive Change

TEST SPECIFICATION(S): 47CFR15.247

EQUIPMENT UNDER TEST (EUT): Wearable Gen 1.1

CONTAINS FCC IDENTIFIER: 2AUFS-WD2

EUT SERIAL NUMBER: NO BLE-1

MANUFACTURER/AGENT: Current Health Limited

ADDRESS: Playfair House
6 Broughton Street Lane
Edinburgh
EH1 3LY
United Kingdom

CLIENT CONTACT: Pavel Boav
☎ 0131 285 8101
✉ pavel.boev@currenthealth.com

ORDER NUMBER: 0753

TEST DATE: 2020-10-09 to 2020-10-20

TESTED BY: Michael Else
Daniel Moncayola
Element

2.1 Test Summary

Test Method and Description		Requirement Clause		Applicable to this equipment	Result / Note
		RSS	47CFR15		
Radiated spurious emissions (restricted bands of operation and cabinet radiation)		Gen, 8.10	15.205	<input checked="" type="checkbox"/>	Pass
AC power line conducted emissions		Gen, 8.8	15.207	<input checked="" type="checkbox"/>	Note 1
Occupied bandwidth		247, 5.2 (1)	15.247(a)(2)	<input type="checkbox"/>	Note 1
Conducted carrier power	Peak	247, 5.4 (4)	15.247(b)(3)	<input checked="" type="checkbox"/>	Pass
	Max.			<input type="checkbox"/>	
Conducted / radiated RF power out-of-band		247, 5.5	15.247(d)	<input type="checkbox"/>	Note 1
Power spectral density, conducted		247, 5.2 (2)	15.247(e)	<input type="checkbox"/>	Note 1
Calculation of duty correction		-	15.35(c)	<input type="checkbox"/>	Note 1

Notes:

- 1- This report contains limited testing to saw compliance with a Class II permissive change.
- 2- This testing is performed with the highest output power radio operational. Please see Element test report TRA-052152-47-01A for results with Wi-Fi transmitter active.

The results contained in this report relate only to the items tested, in the condition at time of test, and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

The apparatus was set up and exercised using the configurations, modes of operation and arrangements defined in this report only. Any modifications made are identified in Section 8 of this report.

Particular operating modes, apparatus monitoring methods and performance criteria required by the standards tested to have been performed except where identified in Section 5.2 of this test report (Deviations from Test Standards).

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4 Introduction

This report TRA-052152-47-00B presents the results of the Radio testing on a Current Health Limited, Wearable Gen 1.1 to specification 47CFR15 Radio Frequency Devices.

The testing was carried out for Current Health Limited by Element, at the address detailed below.

- | | |
|---------------------------------------|--|
| <input type="checkbox"/> Element Hull | <input checked="" type="checkbox"/> Element Skelmersdale |
| Unit E | Unit 1 |
| South Orbital Trading Park | Pendle Place |
| Hedon Road | Skelmersdale |
| Hull | West Lancashire |
| HU9 1NJ | WN8 9PN |
| UK | UK |

This report details the configuration of the equipment, the test methods used and any relevant modifications where appropriate.

All test and measurement equipment under the control of the laboratory and requiring calibration is subject to an established programme and procedures to control and maintain measurement standards. The quality management system meets the principles of ISO 9001, and has quality control procedures for monitoring the validity of tests undertaken. Records and sufficient detail are retained to establish an audit trail of calibration records relating to its test results for a defined period. Under control of the established calibration programme, key quantities or values of the test & measurement instrumentation are within specification and comply with the relevant traceable internationally recognised and appropriate standard specifications, which are UKAS calibrated as such where these properties have a significant effect on results. Participation in inter-laboratory comparisons and proficiency testing ensures satisfactory correlation of results conform to Elements own procedures, as well as statistical techniques for analysis of test data providing the appropriate confidence in measurements.

Throughout this report EUT denotes equipment under test.

FCC Site Listing:

Element is accredited for the above sites under the US-EU MRA, Designation number UK0009.

IC Registration Number(s):

Element Hull	3483A
Element North West	3930B

The test site requirements of ANSI C63.4-2014 are met up to 1GHz.

The test site SVSWR requirements of CISPR 16-1-4:2010 are met over the frequency range 1 GHz to 18 GHz.

5 Test Specifications

5.1 *Normative References*

- FCC 47 CFR Ch. I – Part 15 – 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.

5.2 *Deviations from Test Standards*

This report contains limited testing to saw compliance with a Class II permissive change. Ac powerline conducted testing is performed with the highest output power radio operational. Please see Element test report TRA-052152-47-01A for results with Wi-Fi transmitter active.

6 Glossary of Terms

§	denotes a section reference from the standard, not this document
AC	Alternating Current
ANSI	American National Standards Institute
BW	bandwidth
C	Celsius
CFR	Code of Federal Regulations
CW	Continuous Wave
dB	decibel
dBm	dB relative to 1 milliwatt
DC	Direct Current
DSSS	Direct Sequence Spread Spectrum
EIRP	Equivalent Isotropically Radiated Power
ERP	Effective Radiated Power
EUT	Equipment Under Test
FCC	Federal Communications Commission
FHSS	Frequency Hopping Spread Spectrum
Hz	hertz
IC	Industry Canada
ITU	International Telecommunication Union
LBT	Listen Before Talk
m	metre
max	maximum
MIMO	Multiple Input and Multiple Output
min	minimum
MRA	Mutual Recognition Agreement
N/A	Not Applicable
PCB	Printed Circuit Board
PDF	Portable Document Format
Pt-mpt	Point-to-multipoint
Pt-pt	Point-to-point
RF	Radio Frequency
RH	Relative Humidity
RMS	Root Mean Square
Rx	receiver
s	second
SVSWR	Site Voltage Standing Wave Ratio
Tx	transmitter
UKAS	United Kingdom Accreditation Service
V	volt
W	watt
Ω	ohm

7 Equipment Under Test

7.1 EUT Identification

- Name: Wearable Gen 1.1
- Serial Number: No BLE-1
- Model Number: Gen 1.1 Wearable
- Software Revision: mfg_test_1.0.0
- Build Level / Revision Number: Main PCB rev 1.2, Sensor PCB rev 1.2

7.2 System Equipment

Equipment listed below forms part of the overall test setup and is required for equipment functionality and/or monitoring during testing. The compliance levels achieved in this report relate only to the EUT and not items given in the following list.

Thinkpad laptop
Segger J-Link Plus.

7.3 EUT Mode of Operation

7.3.1 Transmission

The mode of operation for Tx tests was as follows...

The EUT was set to transmit using customer provided Laptop and software, Wearable FCC test Version 2.0.

7.4 EUT Radio Parameters

7.4.1 General

Frequency of operation:	2402 MHz to 2480 MHz
Modulation type(s):	GFSK
Occupied channel bandwidth(s):	2 MHz
Channel spacing:	2 MHz
Declared output power(s):	10 dBm
Nominal Supply Voltage:	3.7 Vdc
Location of notice for license exempt use:	User manual

7.4.2 Antennas

Type:	Chip Monopole Antenna
Frequency range:	2400 MHz to 2500 MHz
Impedance:	50 Ohm
Gain:	+ 1.9 dBi
Polarisation:	Omnidirectional
Connector type:	Not Applicable, PCB mounted
Mounting:	PCB mounted

7.5 EUT Description

The EUT is a wearable device for health monitoring (Medical device) containing 2.4 GHz WiFi/BTLE module.

This report covers limited testing of the Bluetooth Low Energy radio only.

8 Modifications

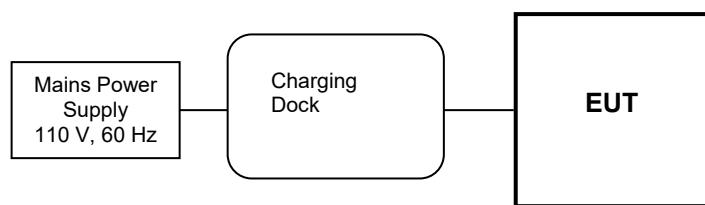
No modifications were performed during this assessment.

9 EUT Test Setup

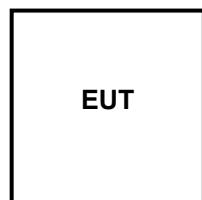
9.1 *Block Diagram*

The following diagram shows basic EUT interconnections with:

EUT on charging dock



EUT battery powered



9.2 General Set-up Photograph

The following photograph shows basic EUT set-up:



9.3 Measurement software

Where applicable, the following software was used to perform measurements contained within this report.

Element Emissions R5 (See Note)
Element Transmitter Bench Test (See Note)
ETS Lindgren EMPower V1.0.4.2

Note:

The version of the Element software used is recorded in the results sheets contained within this report.

10 General Technical Parameters

10.1 Normal Conditions

The E U T was tested under the normal environmental conditions of the test laboratory, except where otherwise stated. The normal power source applied 3.7 V dc from Lithium batteries. The charging dock was connected to 110 V ac, 60 Hz, from the mains.

10.2 Varying Test Conditions

There are no specific frequency stability requirements for the type of device. The results contained in this report demonstrate that the occupied bandwidth is contained within the authorised band and the manufacturer has declared sufficient frequency stability (refer to section 7.4).

Variation of supply voltage is required to ensure stability of the declared output power. During carrier power testing the following variations were made:

	Category	Nominal	Variation
<input type="checkbox"/>	Mains	110 V ac +/- 2 %	85 % and 115 %
<input checked="" type="checkbox"/>	Battery	3.7 V/dc	N/A

11 Radiated emissions

11.1 Definitions

Spurious emissions

Emissions on a frequency or frequencies, which are outside the necessary bandwidth and the level of which may be reduced without affecting the corresponding transmission of information. Spurious emissions include harmonic emissions, parasitic emissions, intermodulation products and frequency conversion products, but exclude out-of-band emissions.

Restricted bands

A frequency band in which intentional radiators are permitted to radiate only spurious emissions but not fundamental signals.

11.2 Test Parameters

Test Location:	Element Skelmersdale
Test Chamber:	SK 01 Semi-Anechoic chamber 1
Test Standard and Clause:	ANSI C63.10-2013, Clause 6.5 and 6.6
EUT Frequencies Measured:	2402 MHz / 2480 MHz
EUT Channel Bandwidths:	2 MHz
Deviations From Standard:	None
Measurement BW:	30 MHz to 1 GHz: 120 kHz Above 1 GHz: 1 MHz
Measurement Detector:	Up to 1 GHz: quasi-peak Above 1 GHz: RMS average and Peak

Environmental Conditions (Normal Environment)

Temperature: 16.8 °C	+15 °C to +35 °C (as declared)
Humidity: 52 % RH	20 % RH to 75 % RH (as declared)

11.3 Test Limit

Unwanted emissions that fall within the restricted frequency bands shall comply with the limits specified:

General Field Strength Limits for License-Exempt Transmitters at Frequencies above 30 MHz

Frequency (MHz)	Field Strength (µV/m at 3 m)
30 to 88	100
88 to 216	150
216 to 960	200
Above 960	500

11.4 Test Method

With the EUT setup as per section 9 of this report and connected as per Figure i, the emissions from the EUT were measured on a spectrum analyzer / EMI receiver.

Radiated electromagnetic emissions from the EUT are checked first by preview scans. Preview scans for all spectrum and modulation characteristics are checked, using a peak detector and where applicable worst-case determined for function, operation, orientation, etc. for both vertical and horizontal polarisations. Pre-scan plots are shown with a peak detector and 100 kHz RBW.

If the EUT connects to auxiliary equipment and is table or floor standing, the configurations prescribed in ANSI C63.10 are followed. Alternatively, a layout closest to normal use (as declared by the provider) is employed, (see EUT setup photographs for more detail).

Emissions between 30 MHz and 1 GHz are measured using calibrated broadband antennas. Emissions above 1 GHz are characterized using standard gain horn antennas. Pre-amplifiers and filters are used where required. Care is taken to ensure that test receiver resolution bandwidth, video bandwidth and detector type(s) meet the regulatory requirements.

For both horizontal and vertical polarizations, the EUT is then rotated through 360 degrees in azimuth until the highest emission is detected. At the previously determined azimuth the test antenna is raised and lowered from 1 to 4 m in height until a maximum emission level is detected, this maximum value is recorded.

Power values measured on the test receiver / analyzer are converted to field strength, FS, in dB μ V/m at the regulatory distance, using:

$$FS = PR + CL + AF - PA + DC - CF$$

Where,

PR is the power recorded on the receiver / spectrum analyzer in dB μ V;

CL is the cable loss in dB;

AF is the test antenna factor in dB/m;

PA is the pre-amplifier gain in dB (where used);

DC is the duty correction factor in dB (where used, e.g. harmonics of pulsed fundamental);

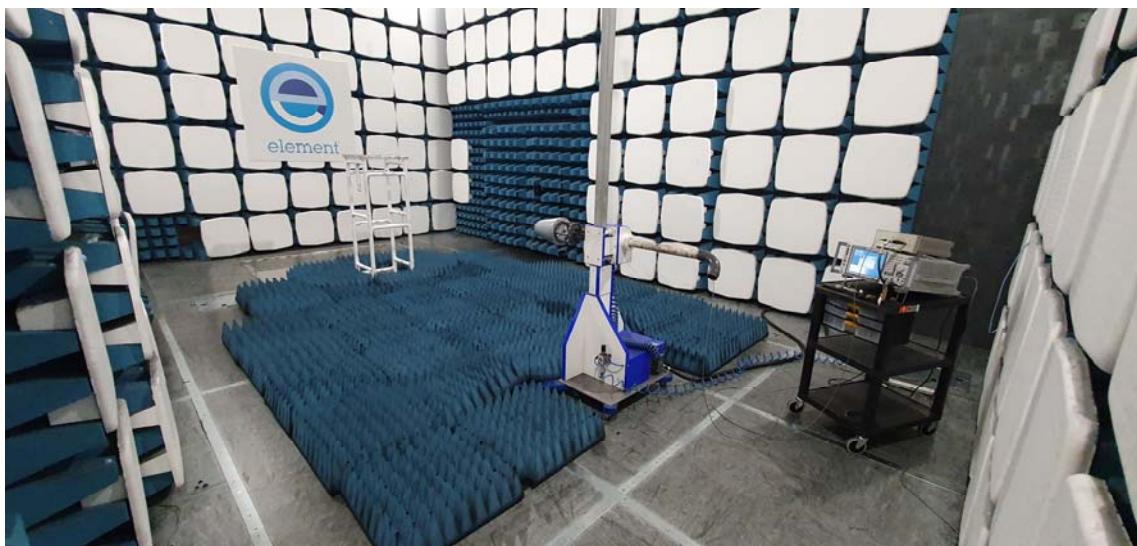
CF is the distance factor in dB (where measurement distance different to limit distance);

This field strength value is then compared with the regulatory limit.

Figure i Test Setup



11.5 Test Set-up Photograph

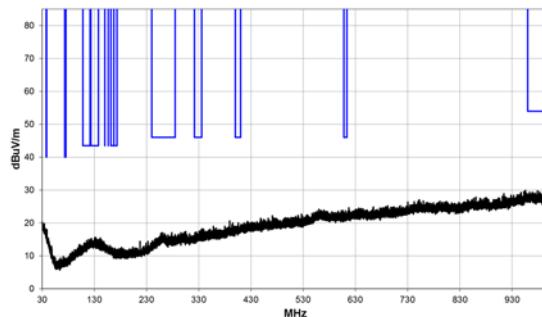


11.6 Test Equipment

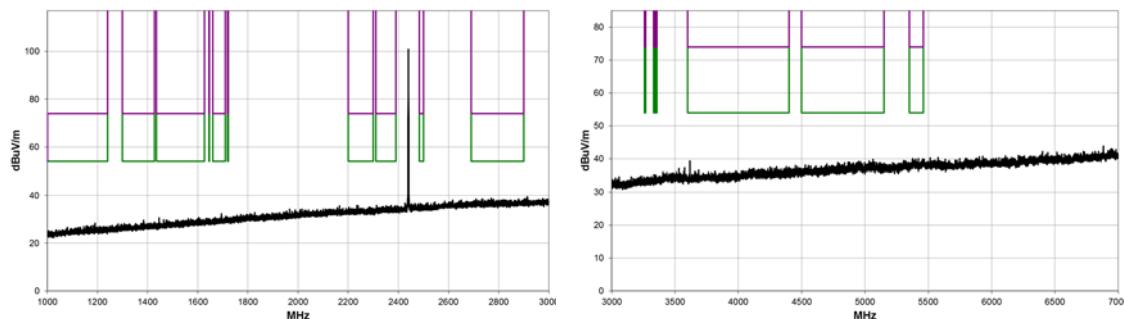
Equipment Type	Manufacturer	Equipment Description	Element No	Due For Calibration
HL 050	R&S	Log Periodic Antenna	U385	2021-01-16
CBL611/A	Chase	Bilog	U573	2021-09-19
6201-69	Watkins Johnson	PreAmp	U372	2021-02-26
ATS	Rainford EMC	Chamber 1	U387	2021-09-09
8449B	Agilent	Pre Amp	L572	2021-10-19
SN 4478	BSC	2.4G Band Stop Filter	U543	2021-01-22
AFH-07000	Atlantic Microwave	High Pass Filter	U558	2021-01-22
20240-20	Flann	Horn 18-26GHz (&U330)	L300	2022-04-23

11.7 Test Results

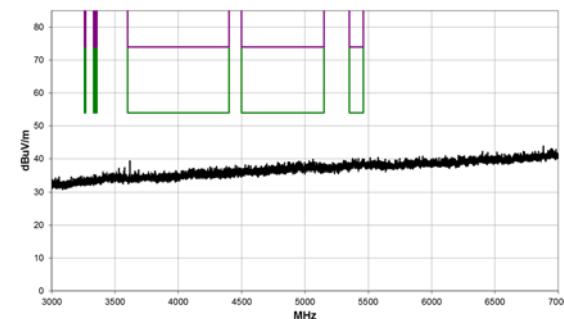
Bottom channel 2402 MHz



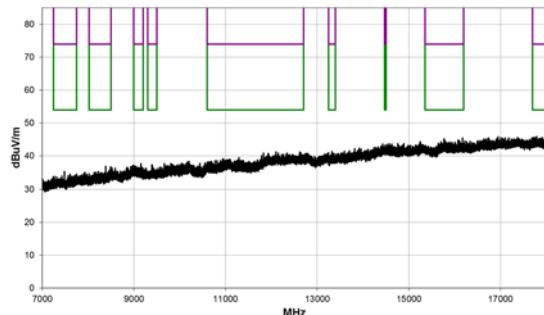
30 MHz to 1 GHz



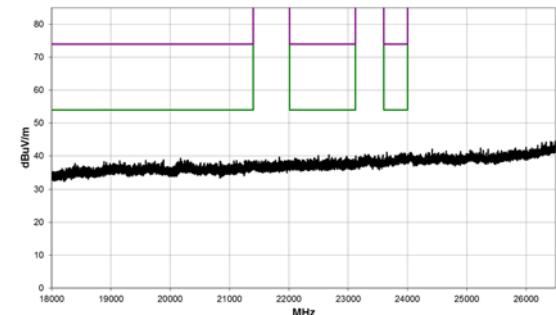
1 GHz to 3 GHz



3 GHz to 7 GHz



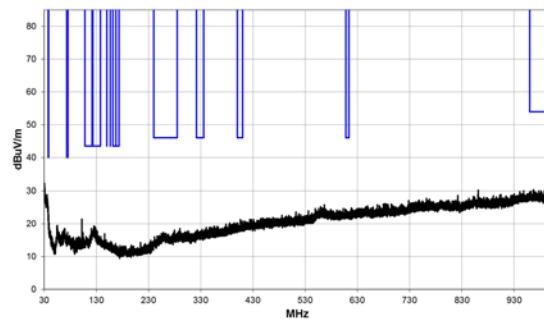
7 GHz to 18 GHz



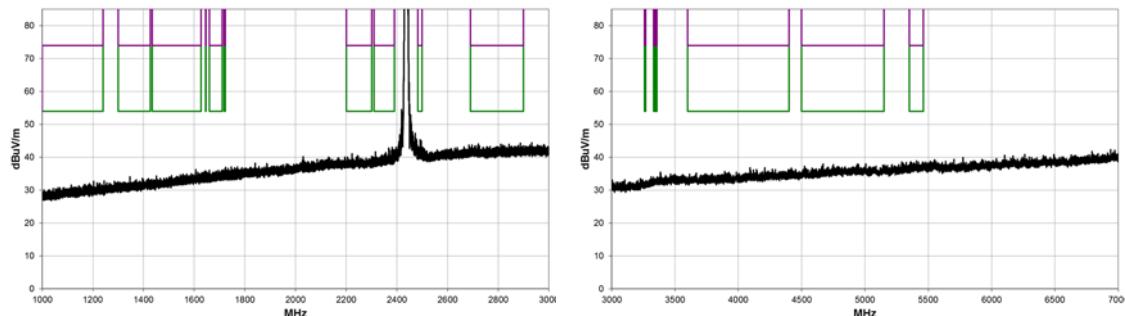
18 GHz to 26.5 GHz

Bottom Channel 2402 MHz, BLE-1, Data pattern PSBR9, Data length 37;												
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
No significant emissions												

Middle channel 2440 MHz

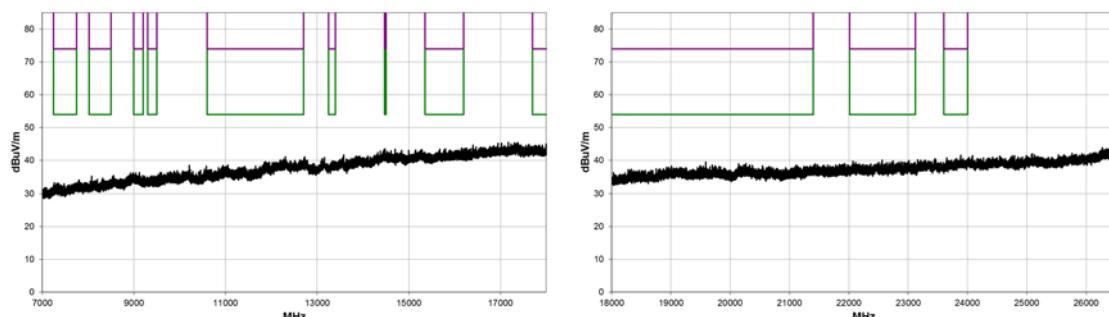


30 MHz to 1 GHz



1 GHz to 3 GHz

3 GHz to 7GHz

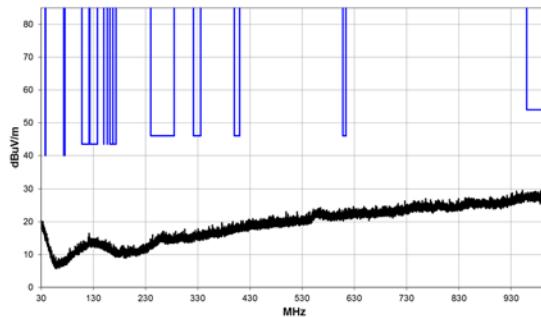


7 GHz to 18 GHz

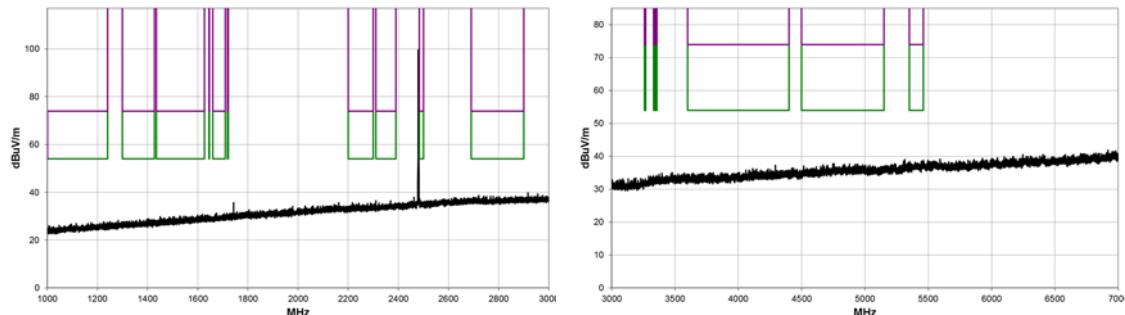
18 GHz to 26.5 GHz

Middle Channel 2440 MHz, BLE-1, Data pattern PSBR9, Data length 37;												
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
No significant emissions												

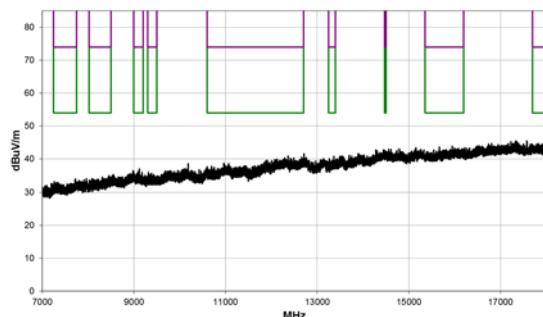
Top Channel 2480 MHz



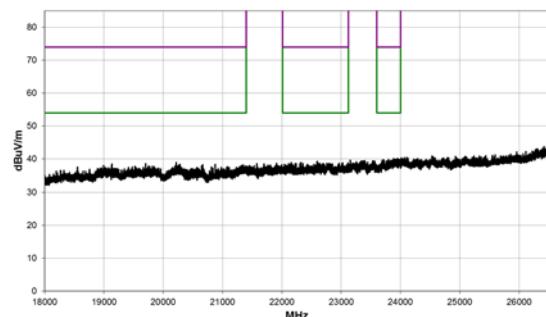
30 MHz to 1 GHz



1 GHz to 3 GHz



3 GHz to 7 GHz

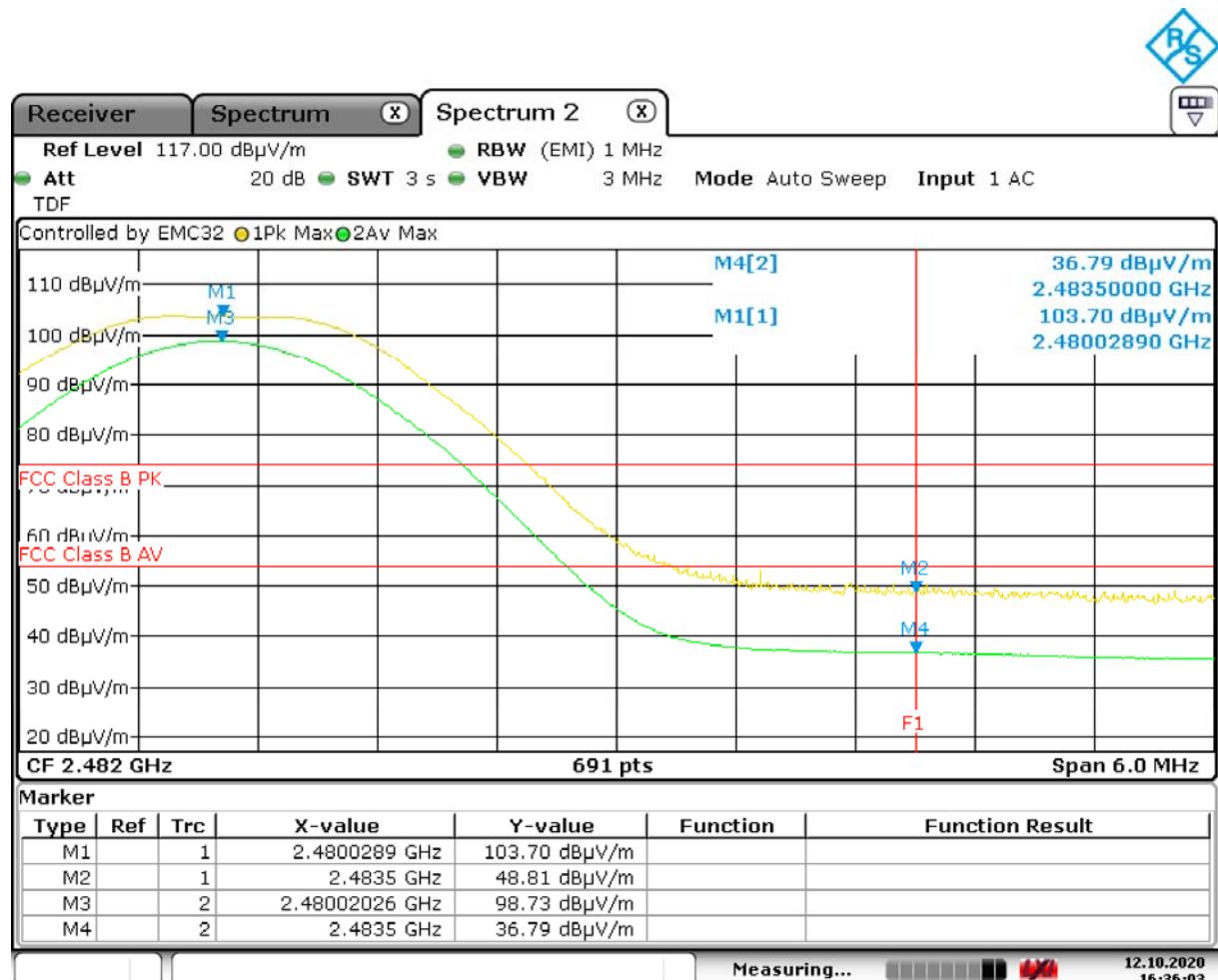


7 GHz to 18 GHz

18 GHz to 26.5 GHz

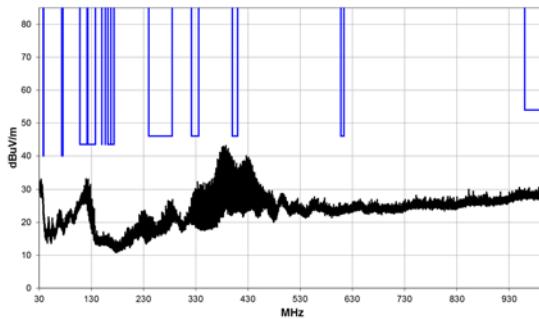
Top Channel 2480 MHz, BLE-1, Data pattern PSBR9, Data length 37;												
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
No significant emissions												

Upper Radiated Band Edge, BLE 1 – Peak & Average

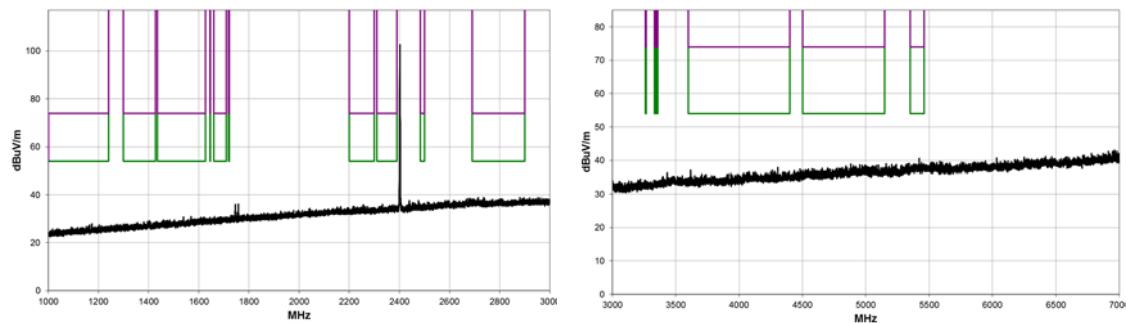


Date: 12.OCT.2020 16:36:04

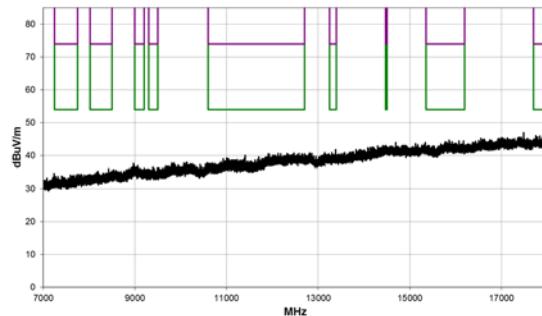
Bottom channel 2402 MHz, EUT placed on charger



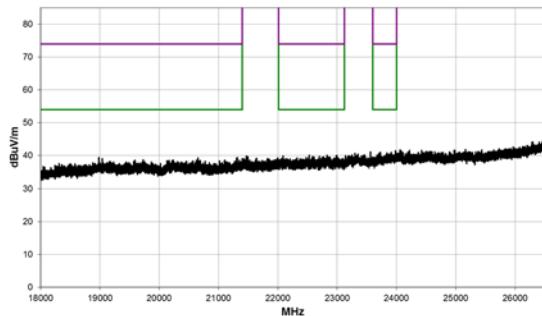
30 MHz to 1 GHz



1 GHz to 3 GHz



3 GHz to 7 GHz

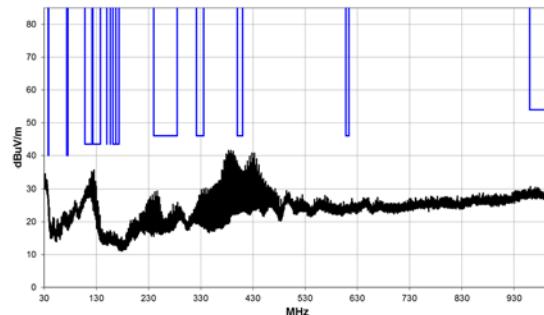


7 GHz to 18 GHz

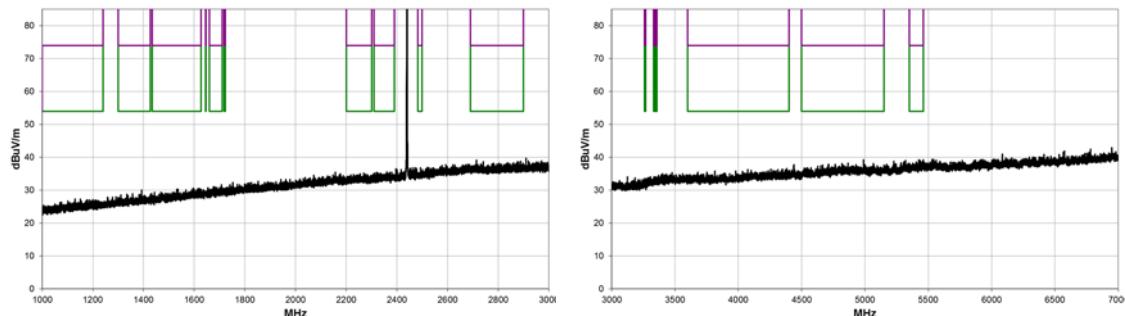
18GHz to 26.5 GHz

Bottom Channel 2402 MHz, BLE-1, Data pattern PSBR9, Data length 37, EUT on charger;												
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
119.791	37.4	-10.4	1.06	124.1	3.0	0.0	Vert	QP	0.0	27.0	43.5	-16.5
123.959	36.1	-10.2	1.0	104.9	3.0	0.0	Vert	QP	0.0	25.9	43.5	-17.6

Middle channel 2440 MHz, EUT placed on charger

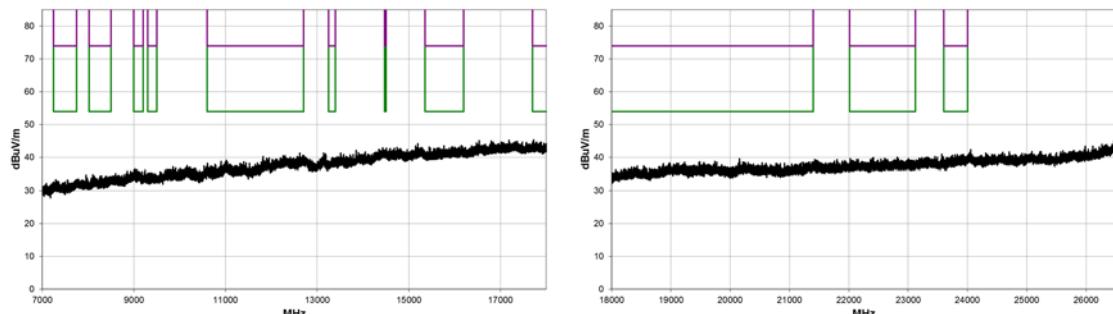


30 MHz to 1 GHz



1 GHz to 3 GHz

3 GHz to 7 GHz

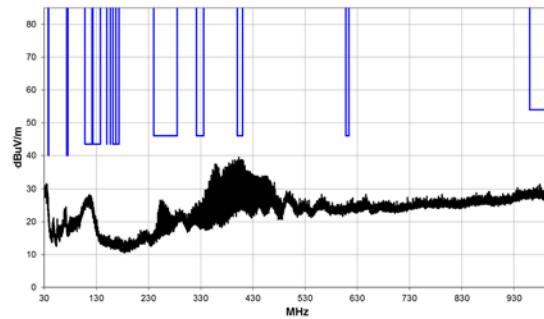


7 GHz to 18 GHz

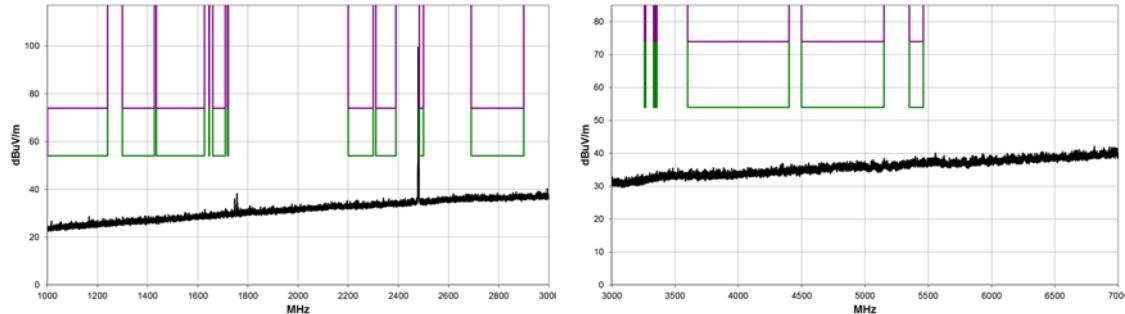
18 GHz to 26.5 GHz

Middle Channel 2440 MHz, BLE-1, Data pattern PSBR9, Data length 37, EUT on charger;												
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
400.951	42.7	-5.2	1.0	185.0	3.0	0.0	Horz	QP	0.0	37.5	46.0	-8.5
119.741	43.0	-10.4	1.0	105.2	3.0	0.0	Vert	QP	0.0	32.6	43.5	-10.9
124.072	40.4	-10.2	1.0	98.9	3.0	0.0	Vert	QP	0.0	30.2	43.5	-13.3
37.507	33.5	-8.0	1.0	197.0	3.0	0.0	Vert	QP	0.0	25.5	40.0	-14.5
400.976	36.0	-5.2	1.63	4.2	3.0	0.0	Vert	QP	0.0	30.8	46.0	-15.2
124.069	38.0	-10.2	2.76	336.9	3.0	0.0	Horz	QP	0.0	27.8	43.5	-15.7
119.749	34.4	-10.4	2.68	164.1	3.0	0.0	Horz	QP	0.0	24.0	43.5	-19.5

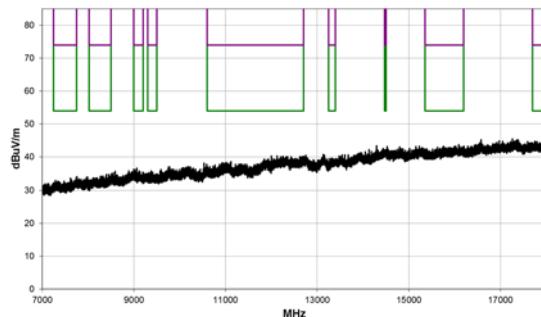
Top channel 2480 MHz, EUT placed on charger



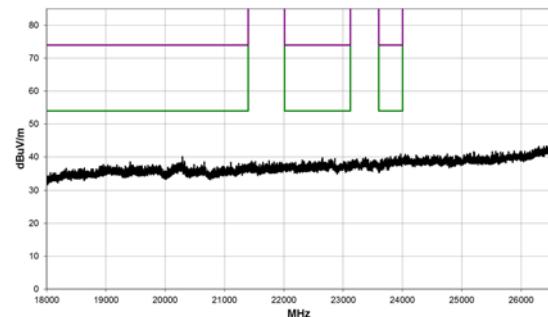
30 MHz to 1 GHz



1 GHz to 3 GHz



3 GHz to 7 GHz

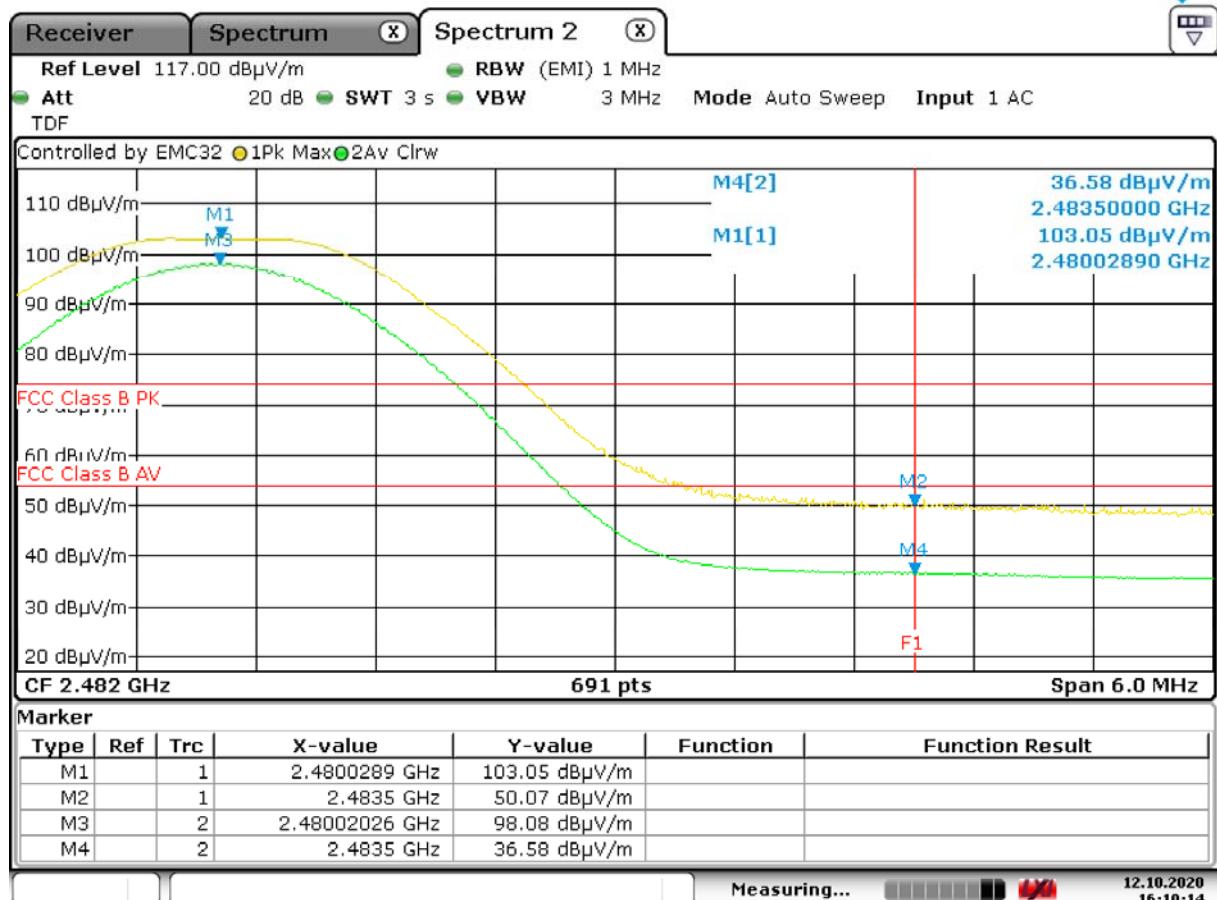


7 GHz to 18 GHz

18 GHz to 26.5 GHz

Top Channel 2480 MHz, BLE-1, Data pattern PSBR9, Data length 37, EUT on charger;												
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
124.033	41.7	-10.2	1.07	112.1	3.0	0.0	Vert	QP	0.0	31.5	43.5	-12.0
124.021	37.8	-10.2	2.48	167.8	3.0	0.0	Horz	QP	0.0	27.6	43.5	-15.9

Upper Radiated Band Edge, BLE-1, EUT on charger – Peak & Average



Date: 12.OCT.2020 16:10:14

12 Maximum peak conducted output power

12.1 Definition

The maximum peak conducted output power is defined as the maximum power level measured with a peak detector using a filter with width and shape of which is sufficient to accept the signal bandwidth.

The maximum conducted output power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level.

12.2 Test Parameters

Test Location:	Element Skelmersdale
Test Chamber:	Radio Laboratory
Test Standard and Clause:	ANSI C63.10-2013, Clause 11.9.1
EUT Frequencies Measured:	2402 MHz /2440 MHz / 2480 MHz
EUT Channel Bandwidths:	2 MHz
Deviations From Standard:	None
Measurement Detector:	Peak
Voltage Extreme Environment Test Range:	Battery Power = new battery.

Environmental Conditions (Normal Environment)

Temperature: 23 °C	+15 °C to +35 °C (as declared)
Humidity: 40 % RH	20 % RH to 75 % RH (as declared)

12.3 Test Limit

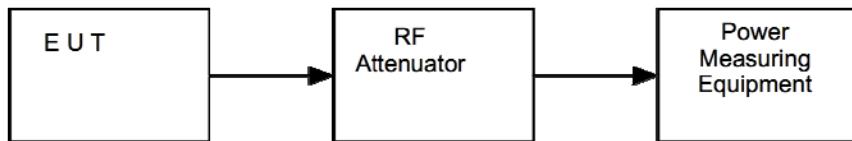
For systems employing digital modulation techniques operating in the bands 902 to 928 MHz, 2400 to 2483.5 MHz and 5725 to 5850 MHz, the maximum peak conducted output power shall not exceed 1 W.

12.4 Test Method

With the EUT setup as per section 9 of this report and connected as per Figure iv, the resolution bandwidth of the spectrum analyser was increased above the EUT occupied bandwidth and the peak emission data noted.

The measurements were performed with EUT set at its maximum duty. All modulation schemes, data rates and power settings were used to observe the worst-case configuration in each bandwidth.

Figure iv Test Setup



12.5 Test Equipment

Equipment Type	Manufacturer	Equipment Description	Element No	Due For Calibration
RPR3006W	Dare	Power Meter	REF2223	2020-12-30
AA18-20H	AtlentecRF	20 dB Attenuator	U631	In Use

12.6 Test Results

Modulation: GFSK; Data rate: 1 MBps; Power setting: Default					
Channel Frequency (MHz)	Power Meter Level (dBm)	Cable loss (dB)	Power (dBm)	Power (W)	Result
2402	-17.3	19.9	2.6	0.002	PASS
2440	-16.8	19.9	3.1	0.002	PASS
2480	-16.0	20.0	4.0	0.003	PASS

13 Measurement Uncertainty

Calculated Measurement Uncertainties

All statements of uncertainty are expanded standard uncertainty using a coverage factor of 1.96 to give a 95 % confidence:

[1] Radiated spurious emissions

Uncertainty in test result (30 MHz to 1 GHz) = **4.75 dB**
Uncertainty in test result (1 GHz to 18 GHz) = **4.46 dB**

[2] AC power line conducted emissions

Uncertainty in test result = **3.2 dB**

[3] Occupied bandwidth

Uncertainty in test result = **15.58 %**

[4] Conducted carrier power

Uncertainty in test result (Power Meter) = **0.93 dB**

[5] Conducted RF power out-of-band

Uncertainty in test result – up to 8.1 GHz = **3.31 dB**
Uncertainty in test result – 8.1 GHz to 15.3 GHz = **4.43 dB**

[6] Radiated RF power out-of-band

Uncertainty in test result (30 MHz to 1 GHz) = **4.75 dB**
Uncertainty in test result (1 GHz to 18 GHz) = **4.46 dB**

[7] Power spectral density

Uncertainty in test result (Spectrum Analyser) = **3.11 dB**

[8] ERP / EIRP

Uncertainty in test result (Laboratory) = **4.71 dB**
Uncertainty in test result (Pershore OATS) = **4.26 dB**