

**TEST REPORT**  
**FOR**  
**TELENSA LTD**  
**ON**  
**BASE STATION 4**  
**REPORT NO. TRA-044667-43-01A**

**25 APRIL 2019**

## TEST REPORT

**Report reference No.** ..... : TRA-044667-43-01A

Report Author ..... : A Renn  
(printed name and signature) ..... : Senior Safety Test Engineer



Report Approved by ..... : N Parrott  
(printed name and signature) ..... : Department Manager  
- Safety Division



Date of issue ..... : 2019-04-25

### Testing laboratory

Name ..... : Element Materials Technology

Address ..... : Unit E, South Orbital Trading Park, Hedon Road, Hull, HU9 1NJ,  
United Kingdom

**Applicants name** ..... : Telensa Limited

Address ..... : Iconix 3, London Road, Pampisford, Cambridge, CB22 3EG, United  
Kingdom

### Location of testing

Name ..... : Element Materials Technology

Address ..... : Unit E, South Orbital Trading Park, Hedon Road, Hull, HU9 1NJ,  
United Kingdom

### Test specification

Standard ..... : AEMO Unmetered Load Guideline - Determination of Device Load  
and Annual Energy Consumption for Unmetered Device Types.  
Version 1.0, 3 April 2014

### Test item description

Model/Type reference ..... : Base Station 4

Date(s) of performance of tests ..... : 2019-04-09 to 2019-04-16

**Remarks**

1. The samples were tested as delivered, after connecting an antenna and a power cord. And connecting the internal battery to the circuit.
2. The devices were tested as Black Box. The test engineer had no means to change or to set the most onerous test condition.
3. After 10 minutes warmup period the applicant was called to confirm that the base station is online.
4. The input power was calculated from a 15 minute power consumption measurement.
5. The highest measured current during those 15 minutes was recorded.
6. All test performed at 50Hz
7. All measurements performed using Yokogawa WT310. Ref: 2124. Calibration due 3<sup>rd</sup> August 2019
8. Element is an ILAC Mutual Recognition Agreement Test laboratory.

**Test Results**

Serial Number	Voltage (V)	Current (A)	Power Factor	Load (W)	(Wh) for 15 min
5091	249.87	0.140	0.51	13.56	3.391
5078	249.97	0.134	0.50	13.13	3.282

**Measurement Uncertainties**

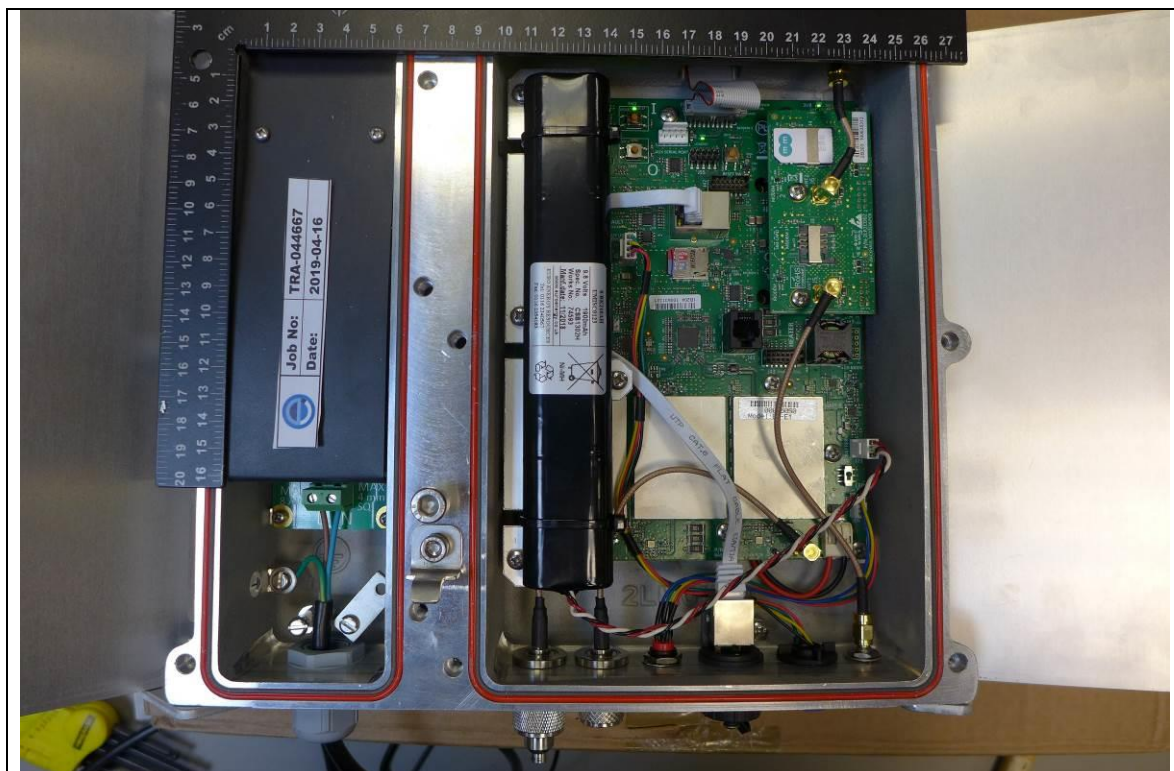
AC Current	0.30 % of reading
AC Voltage	0.29 % of reading
AC Power	0.31 % of reading
Power factor	0.50 % of reading

The above measurement uncertainties were calculated in accordance with UKAS M3003 at a confidence level of 95 % with a coverage factor k=2.

The following test items were submitted for assessment: -

Sample Number	Test Item	Serial number
TRA-044667 S 2	Base Station 4	5091
TRA-044667 S 3	Base Station 4	5078

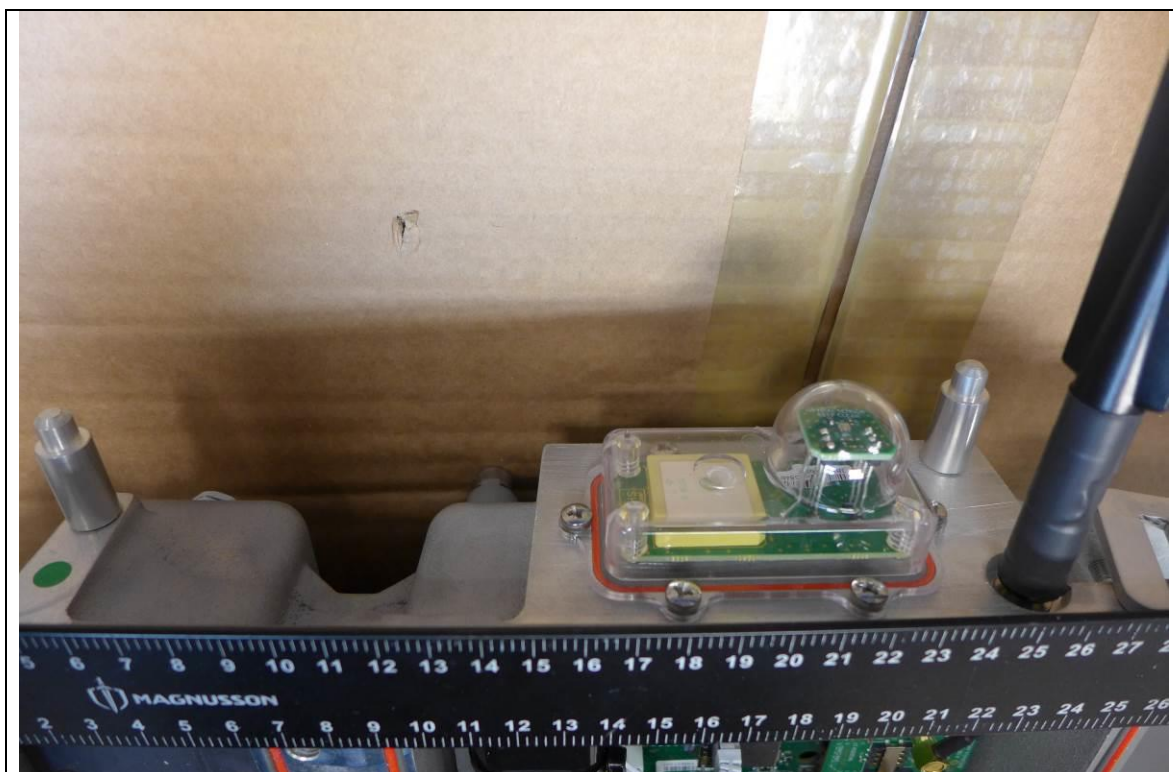
## Photographs of the Equipment



Power connected, and battery connected



Bottom, one antenna fitted with 50  $\Omega$  Resistor



Top, with antenna fitted

- END OF REPORT -