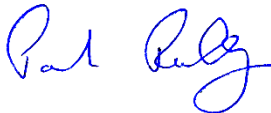


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Issue Date	16th Dec 2025
EUT Model	TEK915 PLS
Authorised by	Paul Reilly
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15. The test results presented in this report relate only to the object tested.

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1. Equipment Under Test (EUT)

1.1 Identification of EUT

Manufacturer:	Rochester
Model Name or Number:	TEK915 PLS

1.2 Description of E.U.T.

The product was a battery powered unit which contained a BLE Radio.
This report covers the BLE antenna radiation pattern test.

1.1. Modifications

There were no modifications on the EUT

1.2. Date of Test

The tests were carried out on the 6th Oct 2025.

1.3. Environmental Conditions

	Temperature	Relative Humidity
Test	°C	%
Radiated Emissions <1GHz	20	39

2. Operation of E.U.T. During Testing

2.1. Operating Environment

The EUT was powered from its internal battery.
A new battery was used for the test.

2.2. Operating Mode:

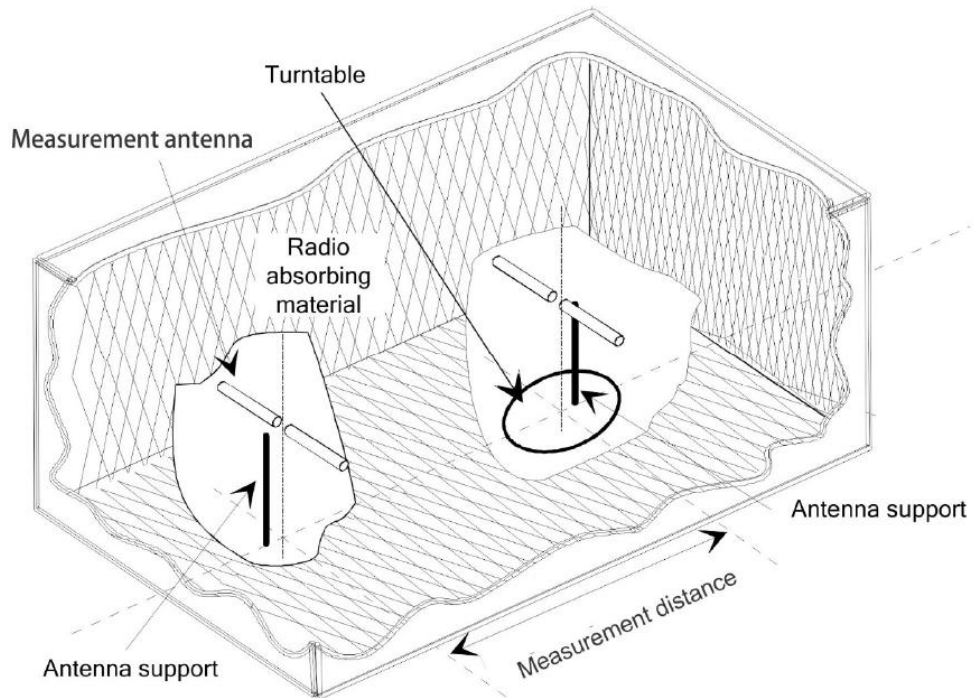
The EUT was operated in CW mode for radiation pattern testing.
The EUT operated on frequency 2402 MHz, 2426 MHz and 2480MHz.
Tests were performed with an RBW of 100 kHz on the analyser.
(EUT labelled "sample match LC")

2.3. Measurement Uncertainties

Measurement	Uncertainty
Radio Frequency	$\pm 5 \times 10^{-7}$
Radiated Emissions by Substitution Test	± 2.25 dB
Maximum Frequency Deviation	± 1.7 %
Occupied Bandwidth	± 5 %
Conducted RF power	± 1.23 dB
Conducted Spurious Emission of transmitter	± 2.14 dB
Conducted Emissions of Receivers	± 2.14 dB
RF level of uncertainty for a given BER	± 1.23 dB
Temperature	$\pm 0.8^{\circ}\text{C}$
Humidity	± 4 % RH

The measurement uncertainties stated were calculated with a $k=2$ for a confidence level of 95.45%.

3. Test Setup



Measurements were performed in a fully anechoic chamber with the measuring antenna at 3 metres distant from the EUT which was positioned at a height of 1.5metres.

4 Results

4.1 Summary of Max EIRP for each orientation and polarisation

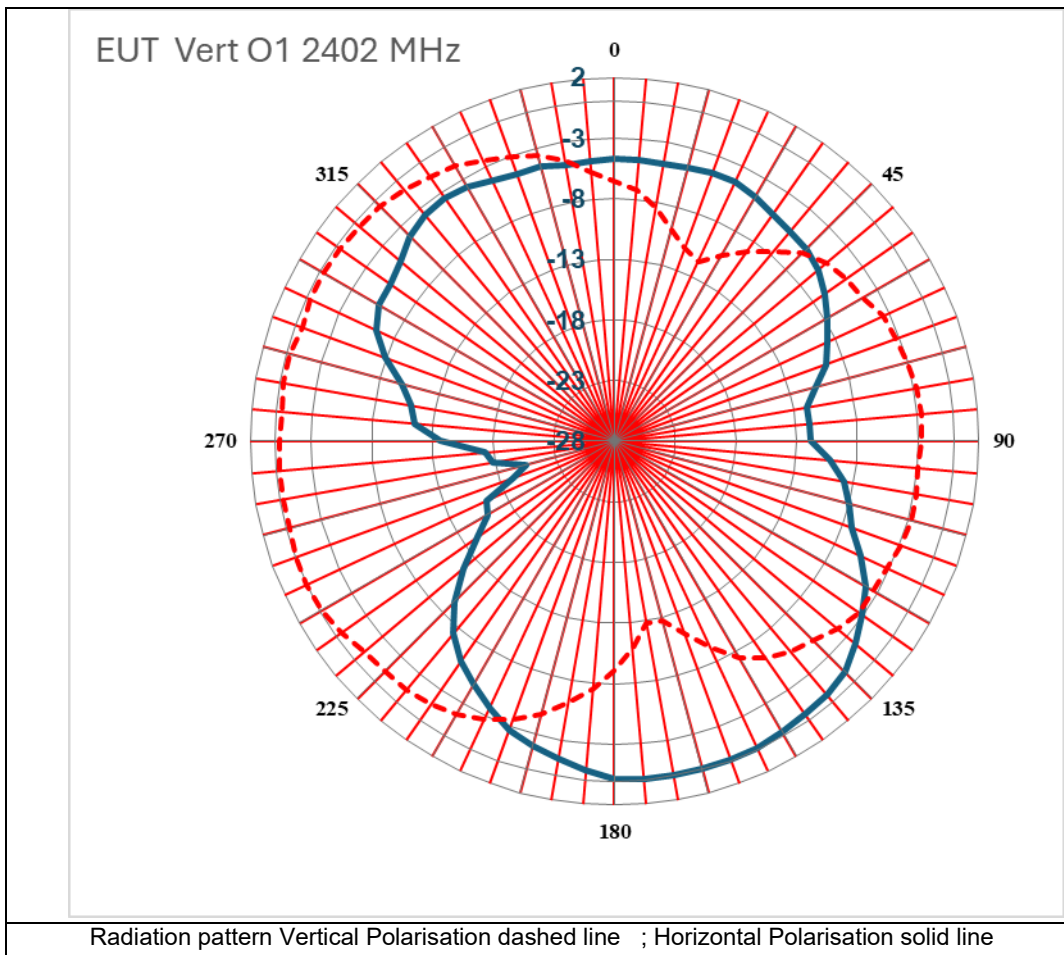
Power setting in Firmware = 6dBm

2402 MHz	2426 MHz	2480 MHz	Polarisation	Orientation
Max EIRP dBm	Max EIRP dBm	Max EIRP dBm	V/H	O1/O2/O3
1.28	1.8	0.68	V	O1
2.16	2.14	0.72	V	O2
-7.56	-6.49	-8.04	V	O3
2.85	2.07	0.73	H	O1
4.97	4.49	3.75	H	O2
6.93	6.01	4.9	H	O3

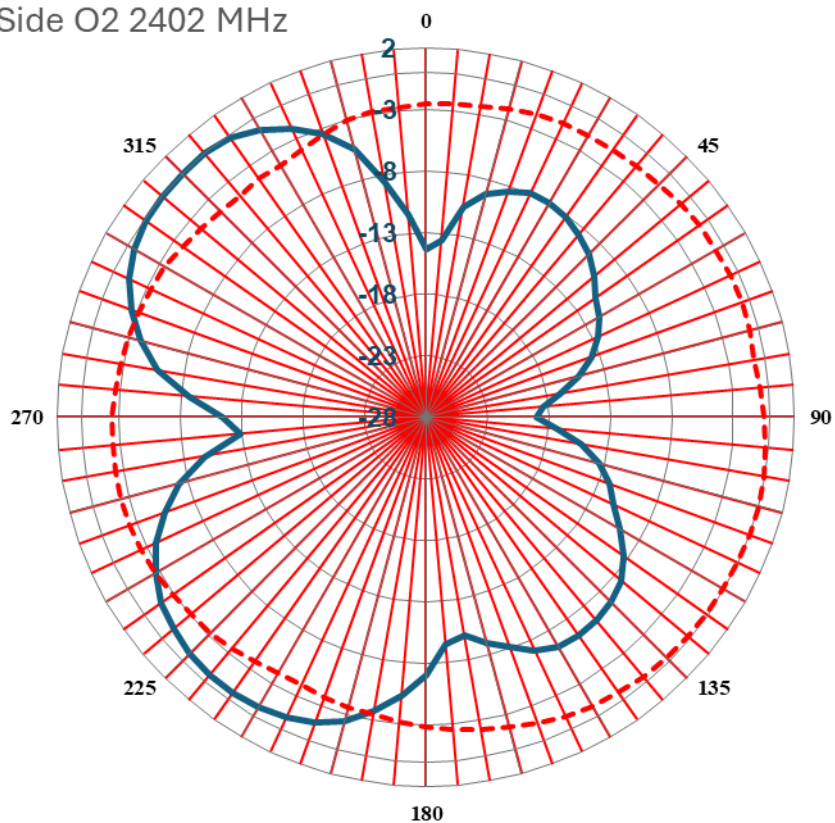
Ref Appendix B for EUT Orientations

Note the normalised scans on the following pages use the max EIRP as the 0 dB reference.

4.2 Normalised Scans for Radiation Test Patterns Frequency 2402 MHz

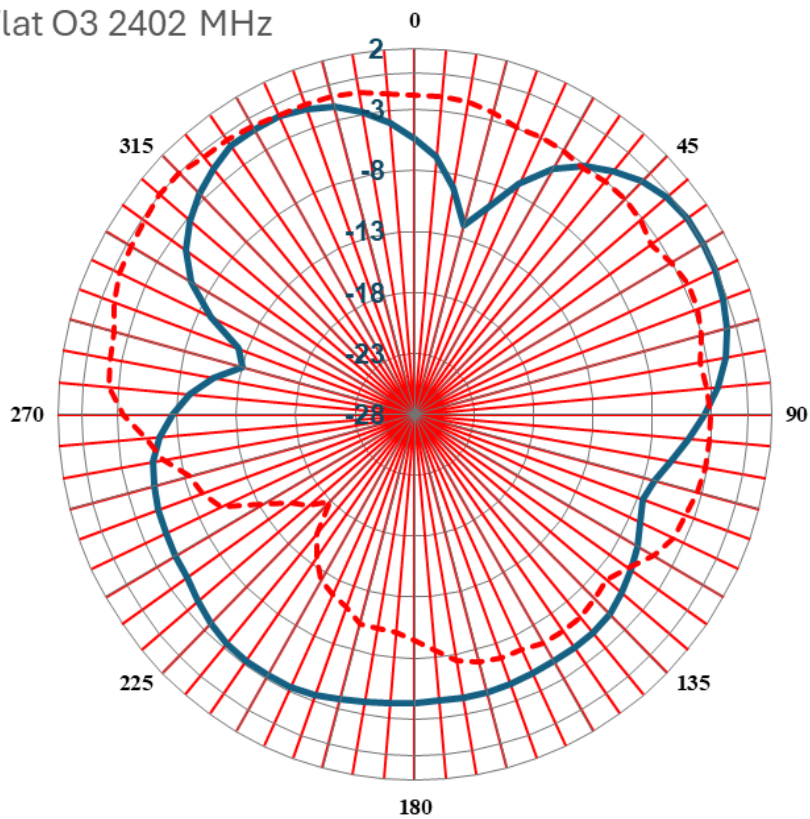


EUT Side O2 2402 MHz



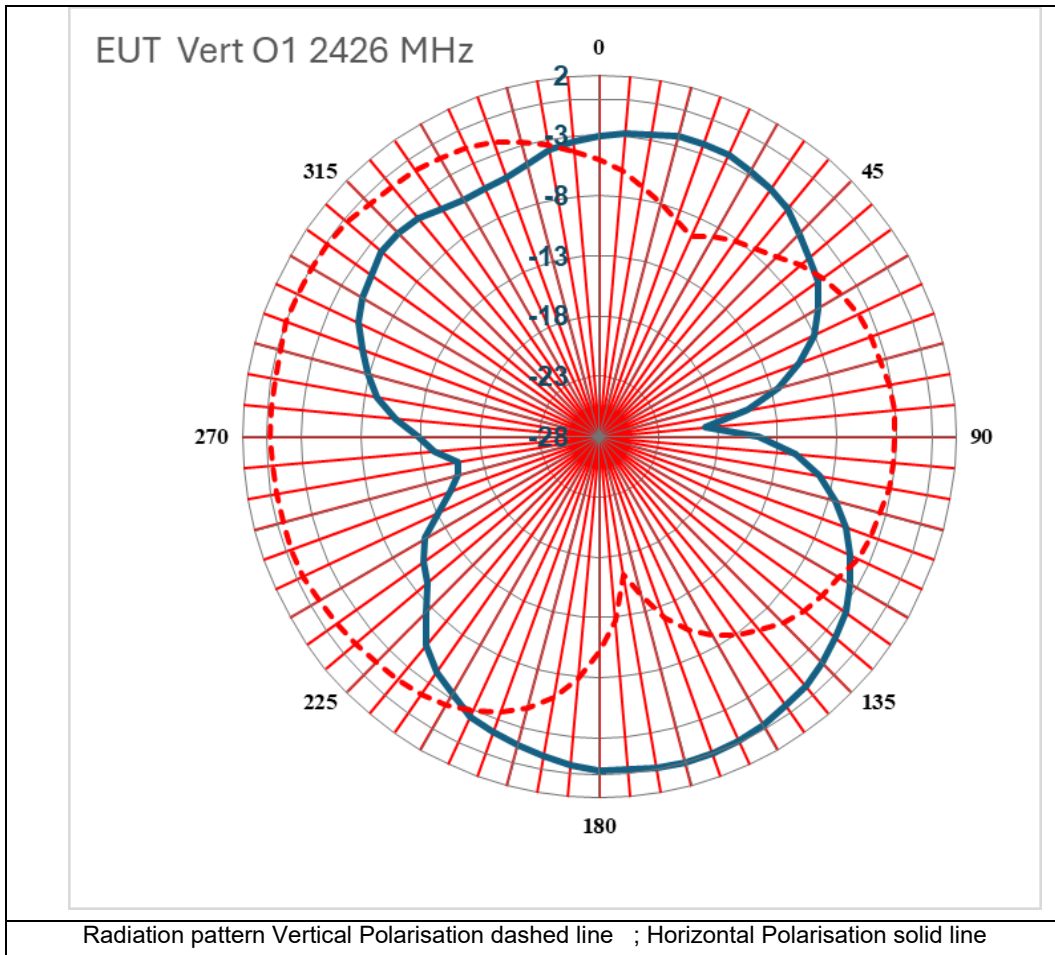
Radiation pattern Vertical Polarisation dashed line ; Horizontal Polarisation solid line

EUT Flat O3 2402 MHz

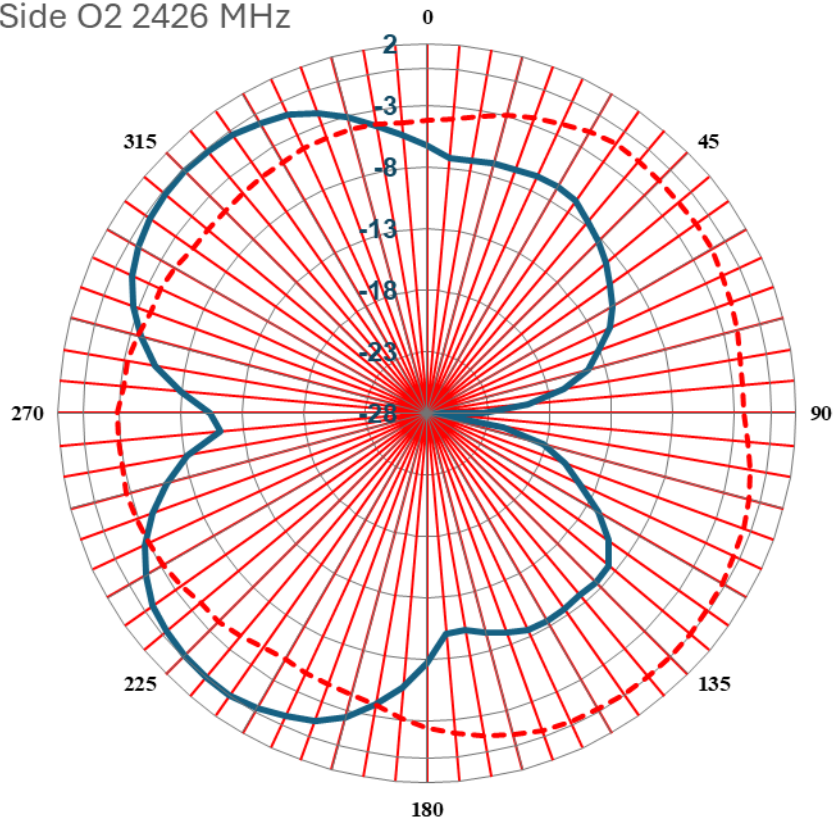


Radiation pattern Vertical Polarisation dashed line ; Horizontal Polarisation solid line

4.3 Normalised Scans for Radiation Test Patterns Frequency 2426 MHz

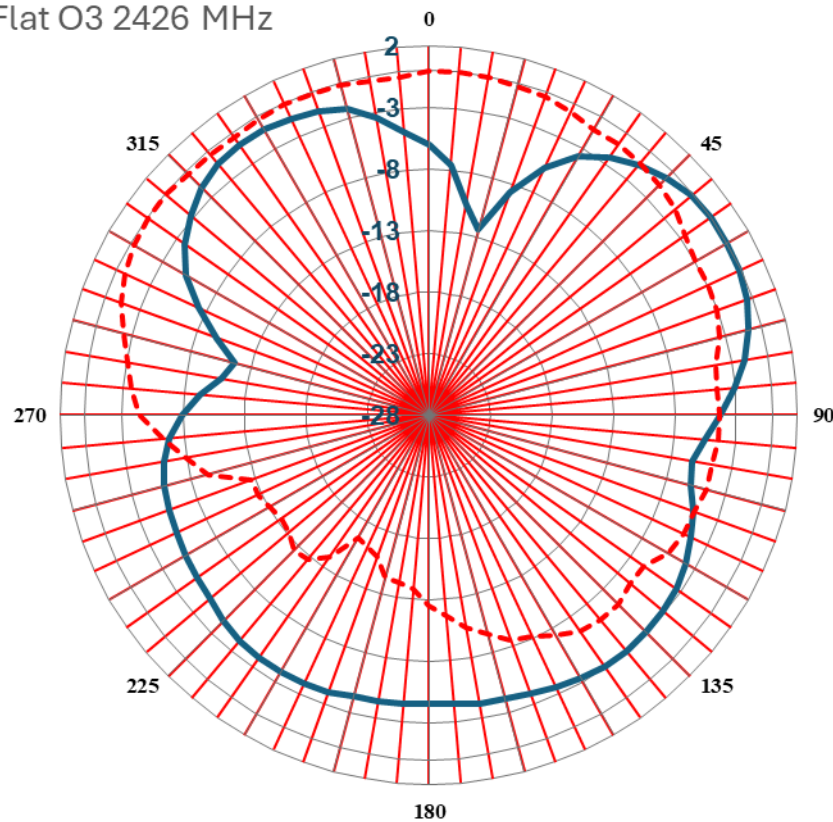


EUT Side O2 2426 MHz

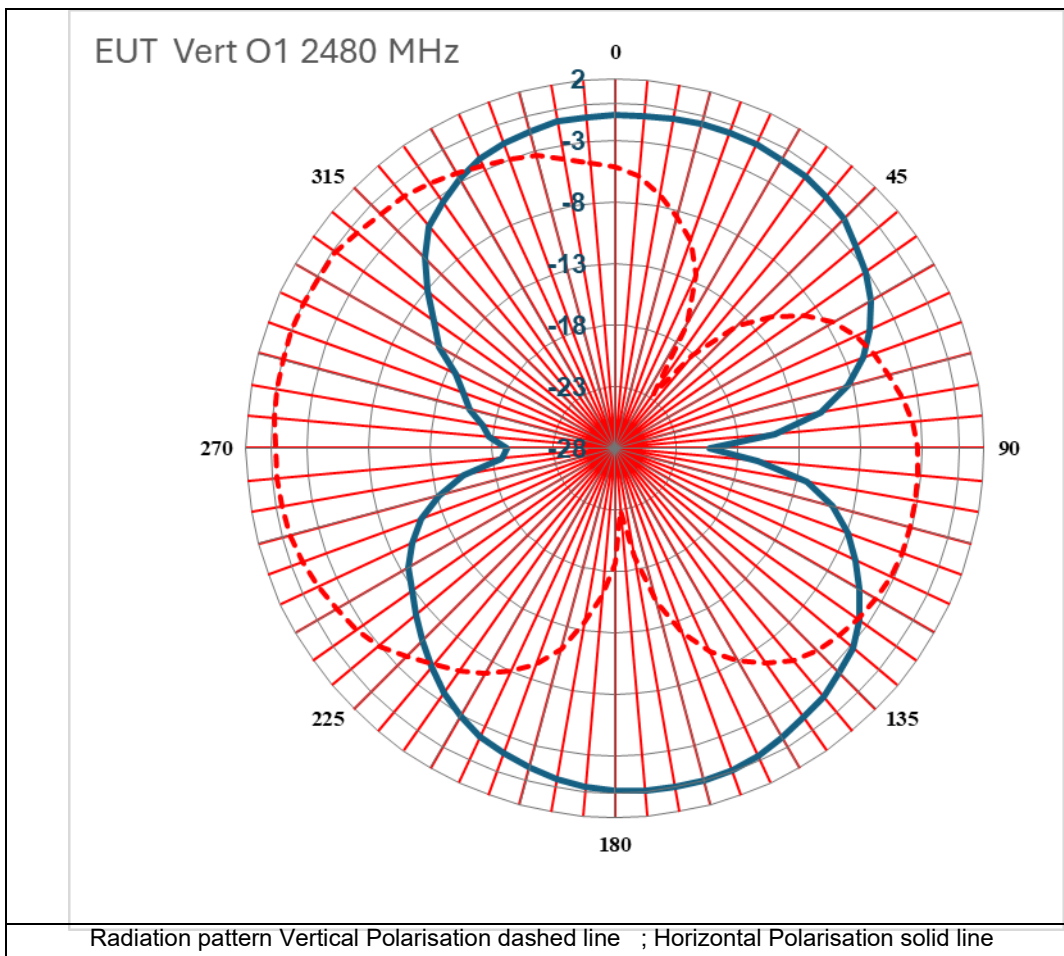


Radiation pattern Vertical Polarisation dashed line ; Horizontal Polarisation solid line

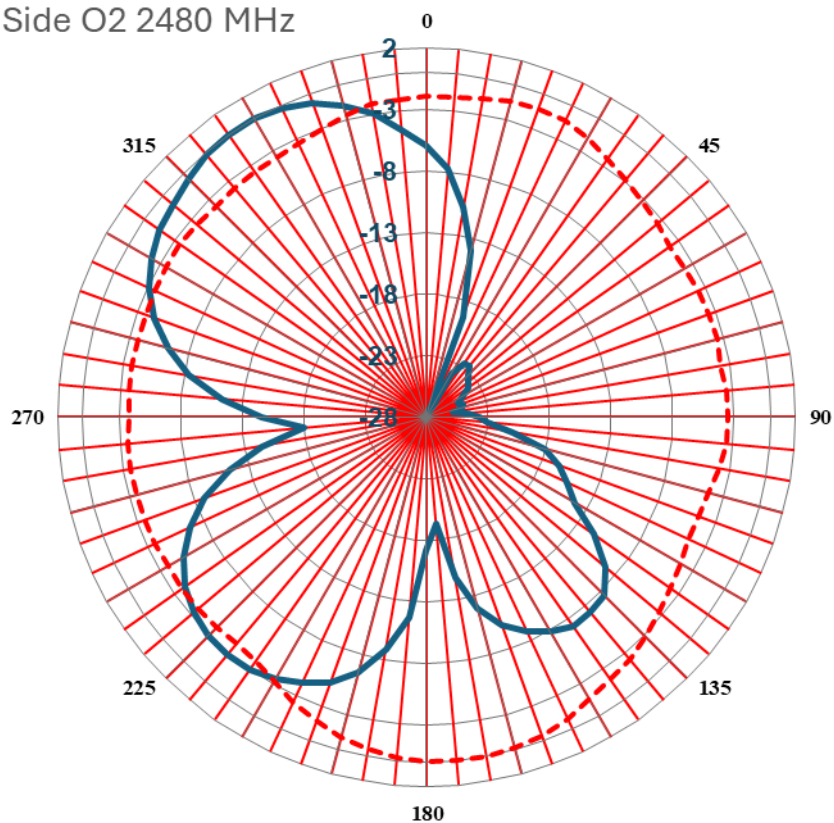
EUT Flat O3 2426 MHz



Radiation pattern Vertical Polarisation dashed line ; Horizontal Polarisation solid line

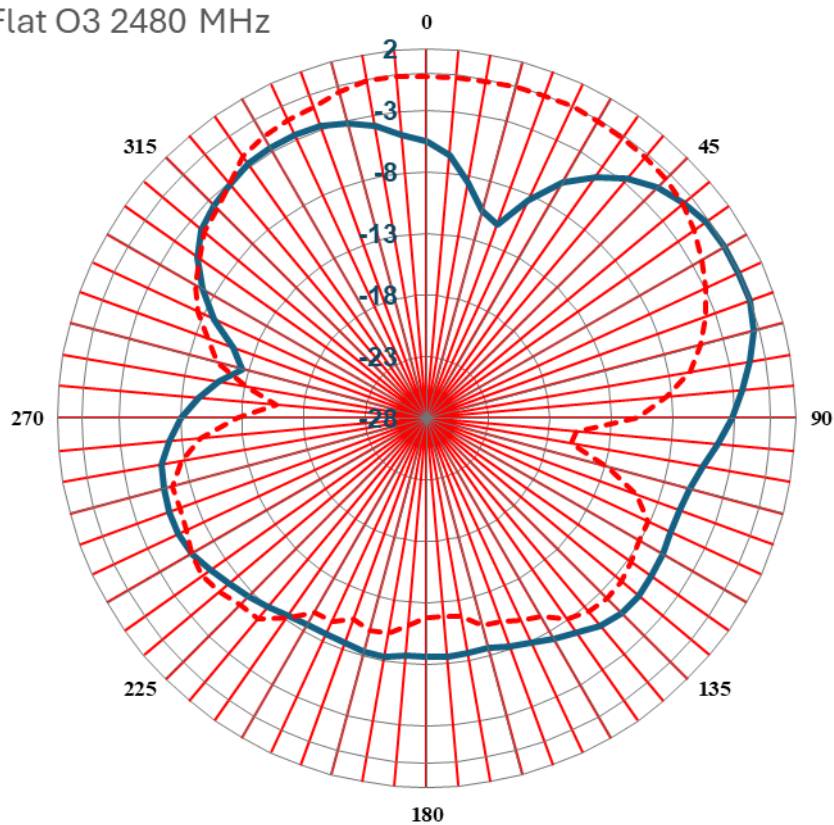
4.4 Normalised Scans for Radiation Test Patterns Frequency 2480 MHz

EUT Side O2 2480 MHz



Radiation pattern Vertical Polarisation dashed line ; Horizontal Polarisation solid line

EUT Flat O3 2480 MHz



Radiation pattern Vertical Polarisation dashed line; Horizontal Polarisation solid line

Appendix A Test Equipment Used:

Asset num	Description	Manufacturer	Model	Serial Num	Last cal	Cal interval	Cal due
869	Receiver 3.6 GHz	Rohde and Schwarz	ESR	101625	23-May-23	36	23-May-26
1100	Antenna Horn	EMCO	3115	2363	21-Feb-23	36	21-Feb-26
906	Chamber Fully Anechoic	CEI	FAR 3M	906	08-Aug-25	36	08-Aug-28
914	Cable SMA 10m			914	29-Jul-25	12	29-Jul-26
853	Cable SMA to N-type 1.5m			853	29-Jul-25	12	29-Jul-26

Appendix B Antenna Gain

EUT Antenna gain

Power setting in firmware -0.15 dBm

Freq	Conducted Measurement	Radiated Measurement	Test Antenna Polarisation	EUT Antenna Gain
MHz	dBm	dBm	V/H	dBi
2402	-3.02	-2.7	V	0.32
2402	-3.02	-1.56	H	1.46
2426	-3.1	-3.78	V	-0.68
2426	-3.1	-2.09	H	1.01
2480	-3.31	-5.72	V	-2.41
2480	-3.31	-3.58	H	-0.27

EUT Antenna gain = radiated measurement minus conducted measurement

Max Antenna gain = 1.46 dBi

End of Report