# Testing Report

Customer Name: Knog PTY LTD

Product Name: Scout Travel

Sample Model: STR001

Reference Standard: *GB/T 9410-2008; ANSI/IEEE Std149-1979*

Issue Date: 2023.7.19

| | | | |
|---|---|---|---|
| Engineer: | Zkris | Date: | 2023.7.19 |
| Auditor: | Eason | Date: | 2023.7.19 |
| Approver: | Aaron | Date: | 2023.7.19 |

Shenzhen RFI-LAB Communication Technology Co., Ltd. RFI-LAB

# Version

| Version No. | Date | Description | Formulate | Approval |
|---|---|---|---|---|
| A0 | 2023.7.19 | For the first time, formulate | Zkris | Eason |
| | | | | |
| | | | | |

# Contents

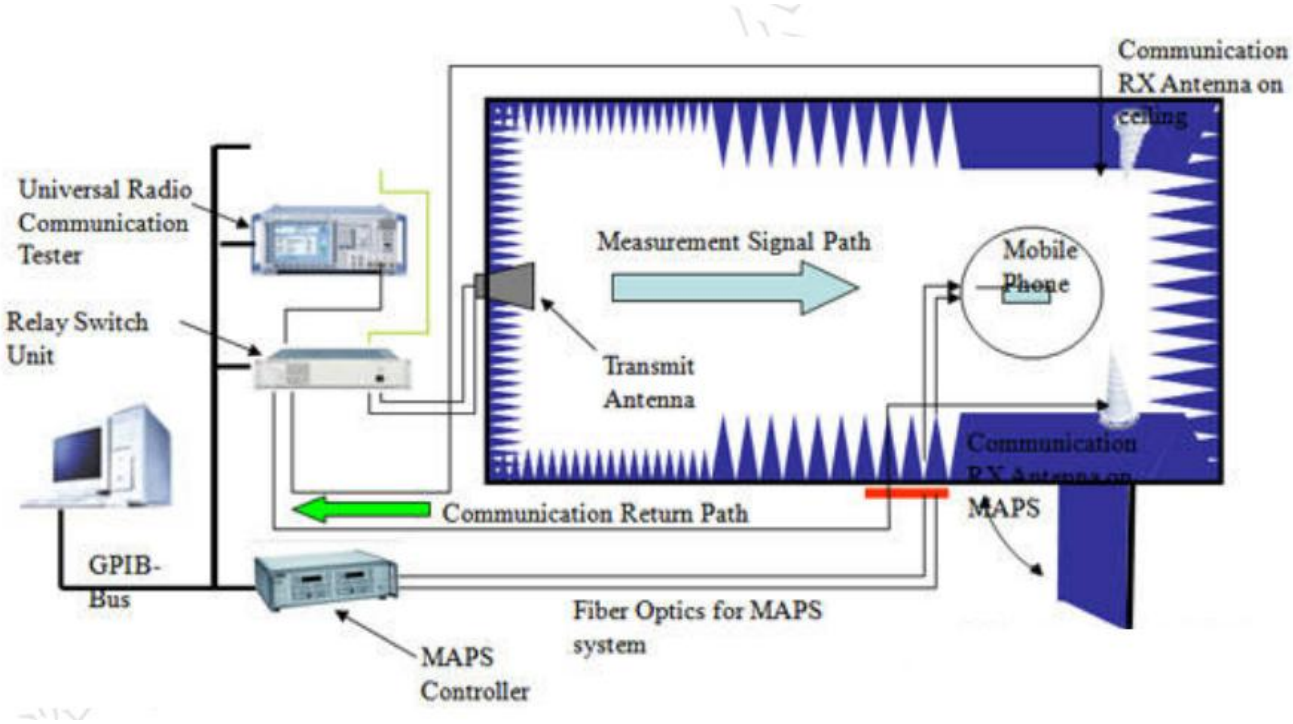
1.General Information ..... 3
1.1 General information of testing institutions ..... 3
1.2 Testing principle ..... 3
1.3 Test environment ..... 4
1.4 Statement ..... 4
2.Sample Information ..... 5
2.1 Client information ..... 5
2.2 Description of EUT(S) ..... 5
2.3 EUT appearance ..... 6
2.4 EUT setup photo of free space OTA testing ..... 6
3. Test Results ..... 7
3.1 VSWR parameters ..... 7
3.2 VSWR data ..... 7
3.3 Typical free space efficiency and gain ..... 7
3.4 Typical free space radiation pattern ..... 8
（The following is blank） ..... 8

# 1.General Information

## 1.1 General information of testing institutions

| | |
|---|---|
| **Name** | Shenzhen RFI-LAB Communication Technology Co., Ltd. |
| **Address** | 10/F A, Lingyun Bld, Liufang Rd, Baoan District, SZ |
| **Tel** | 13682621346 |
| **E-mail** | rfi-lab@tech-now.com |

## 1.2 Testing principle



## 1.3 Test environment

| | |
|---|---|
| **Temperature** | 24.2℃ |
| **Humidity** | 59%RH |
| **Pressure** | 100.15kPa |

## 1.4 Statement

(1) The test results in the report are only applicable to the tested samples and the tested samples work under the environment described in the report.
(2) Only Shenzhen RFI-LAB Communication Technology Co., Ltd. have the right to modify the report, and the modification information shall be annotated in the revision form.
(3) Any objection to this report shall be raised within 30 days after formal confirmation of the report.
(4) This report is invalid if there is any evidence that the sample information provided is falsified.
(5) The report is invalid without the signature of the auditor and approver.

# 2.Sample Information

## 2.1 Client information

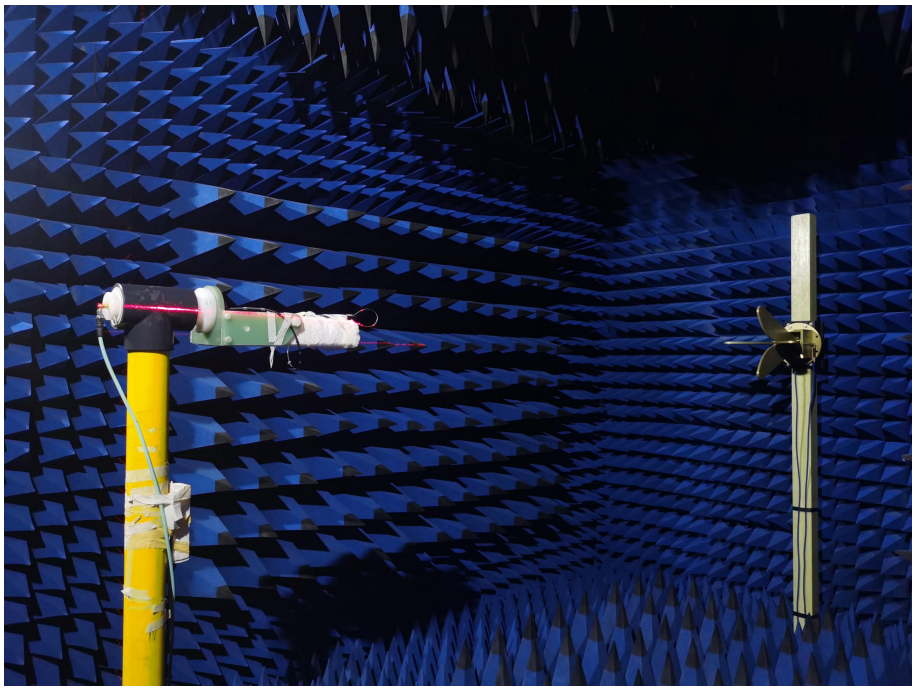
| | |
|---|---|
| **Name** | Knog PTY LTD |
| **Address** | LEVEL 6, 2-6 GWYNNE ST,CREMORNE VICTORIA, AUSTRALIA 3121 |
| **Contacts** | Julian O'Loughlin |
| **Tel** | / |
| **E-mail** | julian@knog.com.au |

## 2.2 Description of EUT(S)

| | |
|---|---|
| **Product Name** | Scout Travel |
| **Sample Model** | STR001 |
| **Antenna Size** | / |
| **Serial No.** | / |
| **Antenna Type** | PCB Antenna |
| **Test Item** | VSWR; Antenna gain; Efficiency; Radiation pattern |
| **Frequency Range** | 2400-2500MHz |
| **Received Date** | 2023.5.31 |
| **Test Date** | 2023.7.19 |
| **Remark** | The length of the RF cable is 60mm |

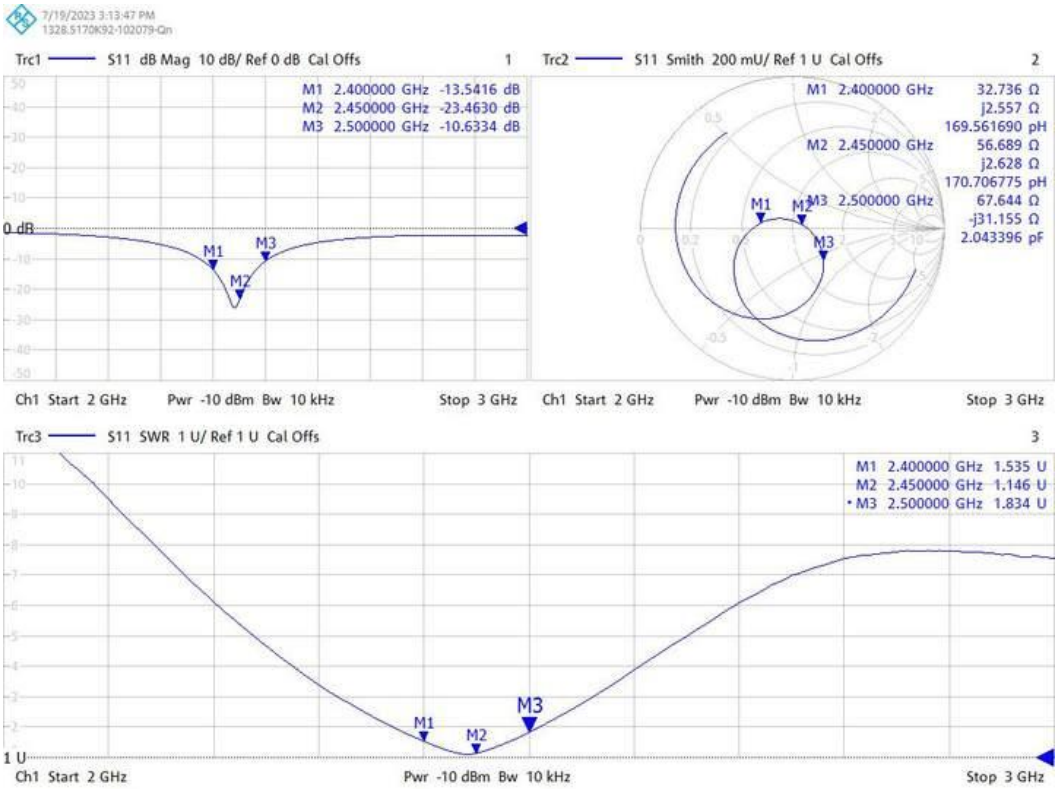
## 2.3 EUT appearance

## 2.4 EUT setup photo of free space OTA testing



# 3. Test Results

## 3.1 VSWR parameters




## 3.2 VSWR data

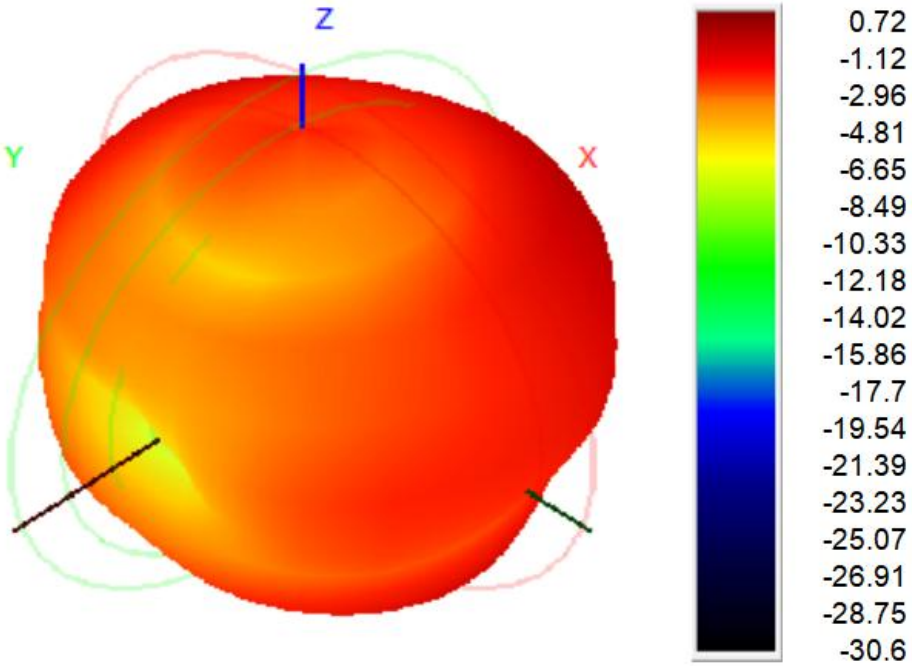
| Frequency/MHz | 2400 | 2450 | 2500 |
|---|---|---|---|
| VSWR | 1.535 | 1.146 | 1.834 |

## 3.3 Typical free space efficiency and gain

| Frequency/MHz | 2400 | 2410 | 2420 | 2430 | 2440 | 2450 | 2460 | 2470 | 2480 | 2490 | 2500 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Peak Gain/dBi | 0.16 | 0.40 | 0.58 | 0.61 | 0.72 | 0.58 | 0.51 | 0.44 | 0.42 | 0.12 | 0.07 |
| Efficiency/% | 37.93 | 38.63 | 39.80 | 40.82 | 42.11 | 42.07 | 42.09 | 41.82 | 41.15 | 38.51 | 38.41 |

## 3.4 Typical free space radiation pattern

Typical Free Space 3D Radiation Pattern at 2.44GHz(unit:dBi):




**----------End----------**

**（The following is blank）**