FCC and ISED Test Report

Inmarsat Solutions B.V.
IsatPhone, Model: IsatPhone 2 (Model 2.1)

In accordance with FCC 47 CFR Part 15B and ICES-003

Prepared for: Inmarsat Global Ltd
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Add value.
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FCC ID: YCT-ISATPHONE2W IC: 8944A-ISATPHONE2W

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Document 75948707-02 Issue 01

SIGNATURE			
AJ Lawson.			
NAME	**JOB TITLE**	**RESPONSIBLE FOR**	**ISSUE DATE**
Andy Lawson	Senior Engineer	Authorised Signatory	9 September 2020

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD document control rules.

ENGINEERING STATEMENT
The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC 47 CFR Part 15B and ICES-003. The sample tested was found to comply with the requirements defined in the applied rules.

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Testing	Graeme Lawler		
Testing	Colin McKean		

FCC Accreditation
90987 Octagon House, Fareham Test Laboratory

ISED Accreditation
12669A Octagon House, Fareham Test Laboratory

EXECUTIVE SUMMARY
A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15B: 2019 and ICES-003: 2016 for the tests detailed in section 1.3.

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Contents

1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
1	First Issue	9 September 2020

Table 1

1.2 Introduction

Applicant	Inmarsat Global Ltd
Manufacturer	Inmarsat Solutions B.V.
Model Number(s)	IsatPhone 2 (Model 2.1)
Serial Number(s)	IMEI: 354006110000259
Hardware Version(s)	HW 2800
Software Version(s)	Isat2.1-V01.00.11
Number of Samples Tested	1
Test Specification/Issue/Date	FCC 47 CFR Part 15B: 2019 ICES-003: 2016
Order Number Date	146810 30-March-2020
Date of Receipt of EUT	05-June-2020
Start of Test	08-July-2020
Finish of Test	10-July-2020
Name of Engineer(s)	Graeme Lawler and Colin McKean
Related Document(s)	ANSI C63.4: 2014

1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15B and ICES-003 is shown below.

Section	Specification Clause		Test Description	Result	Comments/Base Standard
Configuration and Mode: AC charger connected - Idle					
2.1	15.107	6.1	Conducted Disturbance at Mains Terminals	Pass	ANSI C63.4: 2014
2.2	15.109	6.2	Radiated Disturbance	Pass	ANSI C63.4: 2014

Table 2

1.4 Customer Supplied Form

Equipment Description

Technical Description: *(Please provide a brief description of the intended use of the equipment including the technologies the product supports)*	Handheld Satellite phone for Inmarsat GMR2+ satellite network system
Manufacturer:	Inmarsat Solutions B.V.
Model:	IsatPhone 2 (Model 2.1)
Part Number:	10207791
Hardware Version:	HW 2800
Software Version:	Isat2.1-V01.00.11
FCC ID of the product under test – see guidance here	YCT-ISATPHONE2W
IC ID of the product under test – see guidance here	8944A-ISATPHONE2W

Intentional Radiators

Technology	GMR2+
Frequency Range (MHz to MHz)	Tx: GMR2+ 1626.5 – 1660.5 MHz, 1668 – 1675 MHz (ext band) Rx:GMR2+ 1525 – 1559 MHz, 1518 – 1525 MHz (ext band)
Conducted Declared Output Power (dBm)	+33.5 dBm (+31.0 dBm ext band)
Antenna Gain (dBi)	2.8
Supported Bandwidth(s) (MHz) (e.g 1 MHz, 20 MHz, 40 MHz)	200 kHz
Modulation Scheme(s) (e.g GFSK, QPSK etc)	Tx: GMSK Rx: OQPSK
ITU Emission Designator (see guidance here)	50K0G7W
Bottom Frequency (MHz)	1626.675 (CH 0)
Middle Frequency (MHz)	1643.675 (CH 85)
Top Frequency (MHz)	1674.825 (CH 204)

Un-intentional Radiators

Highest frequency generated or used in the device or on which the device operates or tunes	3350 MHz
Lowest frequency generated or used in the device or on which the device operates or tunes	NA
Class A Digital Device (Use in commercial, industrial or business environment) ☐ Class B Digital Device (Use in residential environment only) ☒	

DC Power Source

Nominal voltage:	3.7	V
Extreme upper voltage:	4.2	V
Extreme lower voltage:	3.55	V
Max current:	4	A