

COMMERCIAL-IN-CONFIDENCE

# SAR EXCLUSION DOCUMENT

Document 75938844-13 Issue 01

FCC Standalone SAR Test Exclusion Considerations (KDB 447498 D01) Section 4.3.1 a)

100 MHz – 6 GHz – Separation Distance  $\leq 50$  mm

The 1g SAR Test exclusion thresholds for 100 MHz to 6 GHz test separation distances  $\leq 50$  mm are determined by:

$[(\text{max power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] [\sqrt{f} (\text{GHz})] \leq 3.0$  for 1g SAR and  $\leq 7.5$  for 10g extremity SAR.

- f (GHz) is the RF channel transmit frequency in GHz.
- Power and distance are rounded to the nearest mW and mm before calculation.
- The result is rounded to one decimal place for comparison
- When the maximum test separation distance is  $< 5$  mm, a distance of 5 mm is applied.

SAR Exclusion Result:

Frequency (GHz)	Maximum Power (Tune up Value) * (mW)	Test Separation Distance (mm)	SAR Test Exclusion Threshold	Limit**	SAR Test Exclusion (Yes/No)
2.402	2	5	0.6	$\leq 3.0$	Yes
2.478	2	5	0.6	$\leq 3.0$	Yes

\*Tune-up value is the maximum declared output power of the device

\*\* Select  $\leq 3.0$  for 1g SAR and  $\leq 7.5$  for 10g extremity SAR.

The SAR exclusion threshold has been evaluated using the formula described above from information supplied by the manufacturer below. Based on the calculation above, the EUT is categorically excluded from SAR testing.

Approved by



M Russell  
Authorised Signatory

Date 23 February 2018



## Manufacturer's Declaration of Product Information (Bluetooth):

Product Description:	A satellite phone that integrates smartphone technology to make calls, send text messages and SOS requests.
Model number:	SC01

## Frequency Band 1:

Antenna length (cm):	0.13	Centimetres (cm)
Frequency range:	2400 to 2480	
Bottom frequency:	2402	MHz
Middle frequency:	2440	MHz
Top frequency:	2478	MHz

Maximum power (input to the antenna including tolerance):	3	dBm
Antenna gain (or maximum gain allowed):	-0.5	dBi

Separation distance from antenna to the user/bystander:	0.3	cm
Transmitter Duty Cycle:	65	%