



October 11, 2019

TUV SUD BABT
Octagon House, Concorde Way
Segensworth Rd N, Fareham
PO15 5RL

Attention: Director of Certification

RE: Analysis of RF Exposure for Portable and Mobile use per KDB 447498 D01 Mobile Portable RF Exposure v06 and RSS-102 Issue 5 March 2015.

FCC ID: SGWIPSSSPM080AB

IC: 11583A-IPSSSPM080AB

1. Limits:

Limits for General Population/Uncontrolled Exposure (Title 47 Subpart J §2.1091 and KDB 447498 D01 referring to limits under §1.1310)

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Electric Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time (minutes)
0.3 - 1.34	614	1.63	*(100)	30
1.34 - 30	824/f	2.19/f	*(180/f ²)	30
30 - 300	27.5	0.073	0.2	30
300 - 1500	-	-	f/1500	30
1500 - 100,000	-	-	1.0	30

f = frequency in MHz

**Plane-wave equivalent power density*

Limits for Devices Used by the General Public (Uncontrolled Environment (RSS-102 Issue 5 March 2015))

Frequency Range (MHz)	Electric Field Strength (V/m rms)	Magnetic Field (A/m rms)	Power Density (W/m ²)	Reference Period (minutes)
0.003 - 10 ²¹	83	90	-	Instantaneous
0.1 - 10	-	0.73/f	-	6**
1.1 - 10	87/f ^{0.5}	-	-	6**
10 - 20	27.46	0.0728	2	6
20 - 48	-58.07/f ^{0.25}	0.1540/f ^{0.25}	8.944/f ^{0.5}	6
48 - 300	22.06	0.05852	1.291	6



300 - 6000	$3.142 f^{0.3417}$	$0.008335 f^{0.3417}$	$0.02619 f^{0.6834}$	6
6000 - 15000	61.4	0.163	10	6
15000 - 150000	61.4	0.163	10	$616000/f^{1.2}$
150000 - 300000	$0.158 f^{0.5}$	$4.21 \times 10^{-4} f^{0.5}$	$6.67 \times 10^{-5} f$	$616000/f^{1.2}$

f is frequency in MHz

*Based on nerve stimulation (NS)

** Based on specific absorption rate (SAR)

2. SAR exemption compliance information (NFC):

- ISED Canada RSS-102 Issue 5 Clause 2.5.1: The output power level (0.0521 mW) meets the SAR exemption power threshold in Table 1 of RSS-102.
- FCC KDB 447498 D01 Clause 4.3.1.c: The output power level (0.0521 mW) meets the SAR Test Exclusion Threshold of 442.6 mW @ 13.56MHz (Appendix C of FCC KDB 447498 D01).

3. SAR exemption compliance information (RFID):

- ISED Canada RSS-102 Issue 5 Clause 2.5.1: The output power level (0.00044 mW) meets the SAR exemption power threshold in Table 1 of RSS-102.
- FCC KDB 447498 D01 Clause 4.3.1.c: The output power level (0.00044 mW) meets the SAR Test Exclusion Threshold of 442.6 mW @ 13.56MHz (Appendix C of FCC KDB 447498 D01).

The manufacturer declared that there are no simultaneous transmissions that will occur with this particular model. Simultaneous transmission verification was not performed.

Sincerely,

Ferdie S. Custodio

Name

Authorized Signatory

Title: Senior EMC Test Engineer /Wireless Team Lead