

RF Exposure Report

Report No.: SA181101E04A

FCC ID: YSI-NMR2

Test Model: SensOn3x

Received Date: Mar. 12, 2020

Test Date: Apr. 17, 2020

Issued Date: May 05, 2020

Applicant: Delta Mobile Systems

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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**FCC Registration /
Designation Number:** 723255 / TW2022

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Release Control Record

Issue No.	Description	Date Issued
SA181101E04A	Original release.	May 05, 2020

1 Certificate of Conformity

Product: SensOn3x

Brand: SensOn3x

Test Model: SensOn3x

Sample Status: ENGINEERING SAMPLE

Applicant: Delta Mobile Systems

Test Date: Apr. 17, 2020

Standards: FCC Part 2 (Section 2.1091)
IEEE C95.3-2002

References Test Guidance: KDB 447498 D01 General RF Exposure Guidance v06

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Vivian Huang , **Date:** May 05, 2020
Vivian Huang / Specialist

Approved by : Clark Lin , **Date:** May 05, 2020
Clark Lin / Technical Manager

2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
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

2.2 MPE Calculation Formula

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.
So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

Antenna Type	Antenna Gain (dBi)	Connector Type	Frequency range (GHz)
Printed Patch Array	10	none	76~81

2.5 Calculation Result

Operating Frequency	Pout EIRP (dBm) (Average)	Pout EIRP (mW) (Average)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
76.050 ~ 76.820GHz	23.500	223.872	20	0.04454	1
77~81GHz	31.170	1309.18	20	0.26045	1

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