

RF Exposure Report

Report No.: SA150915D01

FCC ID: 2AF4N-SQ0313MP506

Test Model: MP506

Received Date: Sep. 15, 2015

Test Date: Nov. 9 ~ 11, 2015

Issued Date: Dec. 9, 2015

Applicant: Singular Technology Co., Ltd.

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(R.O.C.)





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Release Control Record

Issue No.	Description	Date Issued
SA150915D01	Original release	Dec. 9, 2015



1 Certificate of Conformity

Product: MP506

Brand: Singular Technology

Test Model: MP506

Sample Status: Engineering Sample

Applicant: Singular Technology Co., Ltd.

Test Date: Nov. 9 ~ 11, 2015

Standards: FCC Part 2 (Section 2.1093)

KDB 447498 D03

KDB 447498 D01

IEEE C95.1

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: Anne Chang, Date: Dec. 9, 2015

Annie Chang / Senior Specialist

Approved by: , **Date:** Dec. 9, 2015

Rex Lai / Assistant Manager



2 Evaluation Result

Following FCC KDB 447498 D01 "General SAR test exclusion guidance"

The corresponding SAR Exclusion Threshold condition, listed below:

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

- 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 The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.</p>
- 2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
 - a) [Threshold at 50 mm in step 1) + (test separation distance 50mm)·(f(MHz)/150)] mW, at 100MHz to 1500 MHz
 - b) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
 - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by [1 + log(100/f(MHz))] for test separation distances > 50 mm and < 200 mm.
 - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$ for test separation distances \leq 50 mm.
 - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.



3 SAR Test Exclusion Thresholds

Maximum measured transmitter power:

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Frequency (GHz)	Max. Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value ^(NOTE 2)	1-g SAR test exclusion thresholds	Result					
2.402 ~ 2.480 (BT EDR)	0.824	5	0.255	3	Pass					
2.402 ~ 2.480 (BT LE)	1.782	5	0.552	3	Pass					

NOTE: 1. The antenna type is Printed antenna with 1dBi gain.

- 2. Calculate SAR test exclusion thresholds from condition "1" formulas.
- 3. BT-EDR and BT-LE can not transmit simultaneously.

4 Conclusion

Since Source-base time average power is below SAR test exclusion power thresholds, the SAR evaluation is not required.

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