

RF EXPOSURE REPORT

FOR

| | | |
|-----------------------------|---|---|
| Applicant | : | MODERN ELECTRONICS FACTORY LIMITED |
| Address | : | FLAT/RM C, BLK 4, 10/F., KWUN TONG INDUSTRIAL CENTRE, 436-446 KWUN TONG ROAD, KWUN TONG, HONG KONG. |
| Equipment under Test | : | Car FM Transmitter |
| Model No. | : | SBT1100 |
| Trade Mark | : | SYLVANIA |
| FCC ID | : | 2ANH7-SBT1100 |
| Manufacturer | : | MODERN ELECTRONICS FACTORY LIMITED |
| Address | : | FLAT/RM C, BLK 4, 10/F., KWUN TONG INDUSTRIAL CENTRE, 436-446 KWUN TONG ROAD, KWUN TONG, HONG KONG. |

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

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TEST REPORT DECLARE

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Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is assessed by Dongguan Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

| | | | |
|-------------------------|-------------------|----------------------|-------------------------------|
| Report No: | DDT-R18080208-1E3 | | |
| Date of Receipt: | Aug. 03, 2018 | Date of Test: | Aug. 03, 2018 ~ Aug. 15, 2018 |

Prepared By:

Sam Li

Sam Li/Engineer

Approved By:



Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision history

| Rev. | Revisions | Issue Date | Revised By |
|------|---------------|---------------|------------|
| --- | Initial issue | Aug. 15, 2018 | |
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1. General information

1.1. Description of Equipment

| | |
|--------------------------|---|
| EUT* Name | : Car FM Transmitter |
| Model Number | : SBT1100 |
| EUT function description | : Please reference user manual of this device |
| Power supply | : DC 12V |
| Radio Specification | : Bluetooth V4.2 |
| Operation frequency | : 2402MHz-2480MHz |
| Modulation | : GFSK, $\pi/4$ -DQPSK, 8DPSK |
| Data rate | : 1Mbps, 2Mbps, 3Mbps |
| Antenna Type | : Integral PCB antenna, maximum PK gain: 1.08443dBi |
| Sample Type | : Series production |

1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd

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2. RF Exposure evaluation for FCC

According to 447498 D01 General RF Exposure Guidance v06

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:

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

$f(\text{GHz})$ 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

Worse case is as below: [2441MHz, 6.04dBm (4.02mW) output power]

$(4.02/5) \cdot [\sqrt{2.441(\text{GHz})}] = 1.256 < 3.0$ for 1-g SAR

Then SAR evaluation is not required

END OF REPORT