Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE145007

Page: 1 of 3

RF Exposure Evaluation FCC ID: 2AFMD-FM25

1. Client Information

Applicant: SHENZHEN SPRING TECHNOLOGY CO,.LIMITED

Address : 5/Fablock, NO162 TongFuYu industry park KuKeng GuanLan

LongHua new district, Shenzhen, China.

Manufacturer : SHENZHEN SPRING TECHNOLOGY CO,.LIMITED

Address : 5/Fablock, NO162 TongFuYu industry park KuKeng GuanLan

LongHua new district, Shenzhen, China.

2. General Description of EUT

| EUT Name | : | Bluetooth FM Transmitter | | | | |
|------------------------|-----|--|---|--|--|--|
| Models No. | : | FM25 | | | | |
| Model difference | (:) | N/A | | | | |
| Product Description | | Operation Frequency: Bluetooth(BLE):2402~2480MHz | | | | |
| | | Number of Channel: | Bluetooth:79 Channels BLE: 40 channels | | | |
| | | Max Peak Output Power: | Bluetooth: 4.469 dBm(GFSK) BLE: -1.759 dBm | | | |
| | | Antenna Gain: | 0 dBi PCB Antenna | | | |
| | | Modulation Type: GFSK 1Mbps(1 Mbps) π /4-DQPSK(2 Mbps) 8-DPSK(3 Mbps) | | | | |
| Power Supply | : | DC Voltage supplied from Car Charger. | | | | |
| Power Rating | : | Car Charger Input: DC 9~26V Output: 5V | | | | |
| Connecting I/O Port(S) | : | Please refer to the User's Manual | | | | |

Note:

More test information about the EUT please refer the RF Test Report.

TB-RF-074-1. 0

Tel: +86 75526509301 Fax: +86 75526509195



Report No.: TB-MPE145007

Page: 2 of 3

SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v05r02.

- (1) Clause 4.3: General SAR test reduction and exclusion guidance Sub clause 4.31: Standalone SAR test exclusion considerations
 - 1)The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance≤5 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leq 3.0 for 1-g SAR

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leq 7.5.0 for 10-g SAR



Report No.: TB-MPE145007

Page: 3 of 3

2. Calculation:

| est separation | : 5mm | | 100 | | - 11 |
|--------------------|-----------------------------|------------------------------------|--|----------------------|---------------------------|
| | | Bluetooth Mode | (GFSK) | | |
| Frequency (GHz) | Conducted Power (dBm) | Turn-up Power Tolerance (dB) | Max power of tune up tolerance (mw) | Calculation Value | Threshold Value 3.0 |
| 2.402 | 4.445 | ±0.5 | | | |
| 2.441 | 4.469 | ±0.5 | 3.140 | 0.981 | 3.0 |
| 2.480 | 4.357 | ±0.5 | 3.060 | 0.964 | 3.0 |
| | | Bluetooth Mode (π | /4-DQPSK) | MILLER | |
| Frequency (GHz) | Conducted Power (dBm) | Turn-up Power Tolerance (dB) | Max power of tune up tolerance (mw) | Calculation Value | Threshold Value |
| 2.402 | 3.064 | ±0.5 | 2.272 | 0.704 | 3.0 |
| 2.441 | 3.218 | ±0.5 | 2.354 | 0.736 | 3.0 |
| 2.480 | 3.142 | ±0.5 | 2.313 | 0.729 | 3.0 |
| 73 | | Bluetooth Mode (| (8-DPSK) | | 13 |
| Frequency (GHz) | Conducted Power (dBm) | Turn-up Power Tolerance (dB) | Max power of tune up tolerance (mw) | Calculation Value | Threshold Value |
| 2.402 | 3.204 | ±0.5 | 2.346 | 0.727 | 3.0 |
| 2.441 | 3.621 | ±0.5 | 2.583 | 0.807 | 3.0 |
| 2.480 | 3.377 | ±0.5 | 2.442 | 0.769 | 3.0 |
| A N | | BLE(GFS | () | CHILI | |
| Frequency (GHz) | Conducted Power (dBm) | Turn-up Power Tolerance (dB) | Max power of tune up tolerance (mw) | Calculation Value | Threshold Value |
| 2.402 | -1.920 | ±0.5 | 0.721 | 0.224 | 3.0 |
| 2.442 | -1.759 | ±0.5 | 0.748 | 0.234 | 3.0 |
| 2.480 | -2.216 | ±0.5 | 0.674 | 0.212 | 3.0 |

So standalone SAR measurements are not required.