



RF Exposure Evaluation

FCC ID: 2A56X-A03

1. Client Information

Applicant	:	NJY Technology Co., Limited
Address	:	5 Songpingshan Road, #201 JiaDa R&D Building Lobby B Shenzhen, 518057 China
Manufacturer	:	NJY Technology Co., Limited
Address	:	5 Songpingshan Road, #201 JiaDa R&D Building Lobby B Shenzhen, 518057 China

2. General Description of EUT

EUT Name	:	A03	
Model(s) No.	:	A03	
Model Different	:	----	
Product Description	:	Operation Frequency:	Bluetooth LE5.0: 2402MHz~2480MHz
		Number of Channel:	40 channels
		Antenna Gain:	0.5 dBi Wire Antenna
		Modulation Type:	GFSK
		Bit Rate of Transmitter:	Bluetooth LE:1/2Mbps
Power Supply	:	Input: DC 5V DC 3.7V by 220mAh Rechargeable Li-ion battery	
Software Version	:	MOY-QHZ3-2.0.3-750249D1	
Hardware Version	:	MOY.M80142.01	
Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.			

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

SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

- (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)] * $\sqrt{f_{\text{GHz}}}$] ≤ 3.0 for 1-g SAR

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

2. Calculation:

Bluetooth LE Mode(1Mbps)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	0.859	0 ± 1	1	1.259	0.390	3.0
2.440	1.457	1 ± 1	2	1.585	0.495	3.0
2.480	1.856	1 ± 1	2	1.585	0.499	3.0
Bluetooth LE Mode(2Mbps)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-4.759	-4 ± 1	-3	0.501	0.155	3.0
2.440	-3.982	-3 ± 1	-2	0.631	0.197	3.0
2.480	-3.449	-3 ± 1	-2	0.631	0.199	3.0

Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

-----END OF REPORT-----