



RF Exposure Evaluation

FCC ID: 2A56X-A02

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	:	A02
Model(s)	:	A02
Model Difference	:	----
Product Description	Operation Frequency:	Bluetooth 5.0(BLE): 2402MHz~2480MHz
	Number of Channel:	40 channels
	RF Output Power:	0.34dBm (Max)
	Antenna Gain:	0.5dBi Internal Antenna
	Modulation Type:	GFSK
	Bit Rate of Transmitter:	1Mbps&2Mbps
Power Supply	:	USB Input: 5V100mA DC 3.7V by 180mAh 0.666Wh Li-ion battery
Software Version	:	MOY-QHZ3-2.0.3-750249D1
Hardware Version	:	MOY.M80142.01
Connecting I/O Port(S)	:	Please refer to the User's Manual
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:

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

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

2. Calculation:

Test separation: 5mm						
Bluetooth LE (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	-0.12	0±1	1	1.259	0.390	3.0
2.440	0.33	0±1	1	1.259	0.393	3.0
2.480	0.29	0±1	1	1.259	0.397	3.0

Test separation: 5mm						
Bluetooth LE (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	-0.14	0±1	1	1.259	0.390	3.0
2.440	0.34	0±1	1	1.259	0.393	3.0
2.480	0.29	0±1	1	1.259	0.397	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.

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