

Shenzhen Toby Technology Co., Ltd.



Report No.: TBR-C-202412-0240-2

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RF Exposure Evaluation

FCC ID: 2A56X-M-REX4

1. Client Information

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

2. General Description of EUT

EUT Name		M-Rex4				
Model(s) No.		M-Rex4	COLUMN TO THE PARTY OF THE PART			
Model Difference		-				
Product Description		Operation Frequency:	Bluetooth V5.3: 2402MHz~2480MHz			
		Antenna Gain:	2.0dBi Wire Antenna			
Power Supply		USB Input: DC 5V/100mA 0.5W DC 3.7V 500mAh 1.85Wh Rechargeable Li-ion battery				
Software Version	:	NJ-F64-2.0.4				
Hardware Version	1	KM01-MB-V1.1	THE PARTY OF THE P			

Remark:

- (1) The antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (3) The above antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.
- (4) More test information about the EUT please refer the RF Test Report.



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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)]*[$\sqrt{f_{(GHz)}}$] \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





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2. Calculation:

Test sepa	ration: 5mm					
6		В	luetooth Mode (GFSK)	U. A. C.	6.30	100
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	3.392	3±1	4	2.512	0.779	3.0
2.441	3.494	3±1	4	2.512	0.785	3.0
2.480	3.055	3±1	4	2.512	0.791	3.0
NU SE		Blue	tooth Mode (Pi/4-DQPS	K)		M G
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	4.395	4±1	5	3.162	0.980	3.0
2.441	4.487	4±1	5	3.162	0.988	3.0
2.480	3.986	3±1	4	2.512	0.791	3.0
	MA	Blu	uetooth Mode (8-DPSK)			A DOME
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	4.98	4±1	5	3.162	0.980	3.0
2.441	5.026	5±1	6	3.981	1.244	3.0
2.480	4.572	4±1	5	3.162	0.996	3.0

Test separation: 5mm							
Bluetooth LE 1M							
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	2.399	2±1	3	1.995	0.618	3.0	
2.440	2.521	2±1	3	1.995	0.623	3.0	
2.480	2.013	2±1	3	1.995	0.628	3.0	

Test separation: 5mm Bluetooth LE 2M							
2.402	2.599	2±1	3	1.995	0.618	3.0	
2.440	2.683	2±1	3	1.995	0.623	3.0	
2.480	2.348	2±1	3	1.995	0.628	3.0	

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 THE REPORT----

