Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE163316 Page: 1 of 3

RF Exposure Evaluation FCC ID: 2AM55-FY-35

1. Client Information

Applicant	1	New Tech Development Co.,Ltd	
Address	Address : FIr.3 Bldg A, JinKe Industrial Park,No.310, Wuhe Road, GuanLar Street,LongHua District, Shenzhen, China		
Manufacturer	:	New Tech Development Co.,Ltd	
Address	FIr.3 Bldg A, JinKe Industrial Park,No.310, Wuhe Road, GuanLan Street,LongHua District, Shenzhen, China		

2. General Description of EUT

Zi Generali		Scription of Lot		
EUT Name	:	LED Bluetooth Speaker		
Models No.		FY-35, NOVABS22A, NOVABS20KK, FY-18, FY-24, FY-25, FY-27, FY-30, FY-31, FY-33, FY-34, FY-37, FY-38, FY-39A, FY-39B, FY-40, FY-41, FY-42, FY-43, FY-44, FY-45, FY-46, M-04A, M-04B, M-05A, M-05B, M-08, M-07, M-10, M-12, M-13		
Model Difference	•	All these models are the same PCB, layout and electrical circuit, the only difference is model.		
Product Description		Operation Frequency:	Bluetooth 4.2(BT): 2402MHz~2480MHz	
		RF Output Power:	GFSK:4.670dBm π /4-DQPSK:5.392dBm	
		Antenna Gain:	0dBi PCB Antenna	
Power Supply	ė	DC Voltage Supply from Adapter DC Voltage supplied by Li-ion battery.		
Power Rating		lutput: DC 5.0V by adapter DC 3.7V by 2000mAh Li-ion battery		
Software Version		V2.0		
Hardware Version		V1.0		
Connecting I/O Port(S)	1	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



Report No.: TB-MPE163316

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 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



Report No.: TB-MPE163316

Page: 3 of 3

2. Calculation:

rest separ	ration: 5mm	6.41	The same of the sa			ALC: NO
		В	luetooth Mode (GFSK)			
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	4.646	4±1	5	3.162	0.980	3.0
2.441	4.670	4±1	5	3.162	0.988	3.0
2.480	4.167	4±1	5	3.162	0.996	3.0
m		Blue	tooth Mode (π/4-DQPS	K)	(117)	112
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	5.379	5±1	6	3.981	1.234	3.0
2.441	5.392	5±1	6	3.981	1.244	3.0
2.480	4.957	5±1	6	3.981	1.254	3.0

Test separation: 5mm The worst RF Exposure Evaluation						
Bluetooth Mode	Value					
1.254	1,254	3.0				
1.234	1.204	3.0				

The worst RF Exposure Evaluation is calculated as 1.254 / cm2 < limit 3.0, So standalone SAR measurements are not required.

----END OF REPORT----