FCC PART 15C TEST REPORT FOR CERTIFICATION On Behalf of

Bang & Olufsen a/s

Bluetooth Speaker

Model Number: Beolit 15

FCC ID: TTUBEOLIT15

Prepared for : Bang & Olufsen a/s

Peter Bangs Vej 15, 7600 Struer, Denmark

Prepared By: EST Technology Co., Ltd.

San Tun Management Zone, Houjie District, Dongguan,

China

Tel: 86-769-83081888-808

Report Number: ESTE-R1410006

Date of Test: September 26 ~ October 19, 2014

Date of Report: October 20, 2014

1. EXPOSURE EVALUATION OF PORTABLE OR MOBILE DEVICES

Human exposure to RF emissions from portable devices (47 CFR §2.1093), as defined by the FCC, must be evaluated with respect to the FCC-adopted limits for SAR. Evaluation of mobile devices, as defined by the FCC, may also be performed with respect to SAR limits, but in such cases it is usually simpler and more cost-effective to evaluate compliance with respect to field strength or power density limits. For certain devices that are designed to be used in both mobile and portable configurations similar to those described in 47 CFR §2.1091(d)(4), such as certain desktop phones and wireless modem modules, compliance for mobile configurations is also satisfied when the same device is evaluated for SAR compliance in portable configurations.

2. SAR TEST EXCLUSION THRESHOLD FOR 100MHz to 6GHz and ≤50mm

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	SAR Test Exclusion
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	Threshold (mW)
2450	10	19	29	38	48	Timesmoto (m.v.)
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where

- •f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

FCC ID: TTUBEOLIT15

3. EVALUATION RESULTS

Maximum measured transmitter power.

darinam measured transmitter power.								
Mode	СН	Peak output Power (dBm)	Turn-up power tolerance (dB)	Max Power of Turn-up power tolerance (mW)	Results			
	2402	1.19	± 0.2	1.377	0.427			
GFSK	2440	2.81	± 0.2	2.000	0.624			
	2480	3.97	±0.2	2.612	0.820			

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] * [$\sqrt{f(GHz)}$] < 3.0

SAR Test Exclusion Thresholds is 3.0 for separation distance 5mm. Therefore, SAR test is not required.

