

MRT Technology (Suzhou) Co., Ltd Phone: +86-512-66308358

Web: www.mrt-cert.com

Report No.: 1908RSU011-U2 Report Version: V01 Issue Date: 10-15-2019

RF Exposure Evaluation Declaration

FCC ID: 2AT2J-MH11901

APPLICANT: SHENZHEN JMT TECH LTD.

Application Type: Certification

Product: Monster Bluetooth Headphones

Model No.: MH11901

Brand Name: MONSTER

FCC Classification: FCC Part 15 Spread Spectrum Transmitter (DSS)

Test Procedure(s): KDB 447498 D01v06

Reviewed By:

Jame Yuan)

Approved By:

(Robin Wu)





The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

FCC ID: 2AT2J-MH11901

Page Number: 1 of 6





Revision History

Report No.	Version	Description	Issue Date	Note
1908RSU011-U2	Rev. 01	Initial Report	10-15-2019	Valid

FCC ID: 2AT2J-MH11901 Page Number: 2 of 6

Report No.: 1908RSU011-U2



1. PRODUCT INFORMATION

1.1. Equipment Description

Product Name:	Monster Bluetooth Headphones		
Model No.:	ИН11901		
Brand Name:	MONSTER		
Bluetooth Version:	v5.0 (Single mode for BR/EDR)		
Power Supply:	By Internal Battery		

1.2. Product Specification Subjective

Operating Frequency:	2402~2480MHz	
Channel Number:	79	
Type of modulation:	GFSK, Pi/4 DQPSK, 8DPSK	
Data Rate:	1Mbps(GFSK), 2Mbps(Pi/4 DQPSK), 3Mbps (8DPSK)	
Antenna Type:	FPC Antenna	
Antenna Gain:	1.16dBi	

FCC ID: 2AT2J-MH11901 Page Number: 3 of 6



2. RF Exposure Evaluation

2.1. Limits

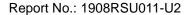
SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table. The equation and threshold in Note 1 must be applied to determine SAR test exclusion.

		10			0.7	
MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test
300	27	55	82	110	137	Exclusion
450	22	45	67	89	112	Threshold
835	16	33	49	66	82	(mW)
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	
MHz	30	35	40	45	50	mm
150	232	271	310	349	387	SAR Test
300	164	192	219	246	274	Exclusion
450	134	157	179	201	224	Threshold
835	98	115	131	148	164	(mW)
900	95	111	126	142	158	
1500	73	86	98	110	122	
1900	65	76	87	98	109	
2450	57	67	77	86	96	
3600	47	55	63	71	79	
5200	39	46	53	59	66	
		4-	52	58	65	
5400	39	45	52	50	05	

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

FCC ID: 2AT2J-MH11901 Page Number: 4 of 6





[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] * $[\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 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
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

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 according to 5) in section 4.1 is applied to determine SAR test exclusion.

FCC ID: 2AT2J-MH11901 Page Number: 5 of 6



2.2. Test Result of RF Exposure Evaluation

Product	Monster Bluetooth Headphones	
Test Item	RF Exposure Evaluation	

Test Mode	Frequency Band	Maximum Tune-up Power		SAR Test Exclusion Threshold
	(MHz)	(dBm)	(mW)	(mW)
Bluetooth	2402 ~ 2480	8.00	6.31	10

Note: Per FCC KDB 447498 D01v06, the SAR exclusion threshold for distances<50mm is defined by the following equation:

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

Based on the maximum conducted power of Bluetooth and the antenna to use separation distance, Bluetooth SAR was not required;

Note: When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.