

RF Exposure Report

FCC ID: 2ALJI-G1608

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Equipment	Bluetooth headset
Model Name	G1608
Additional Model Number(s)	G1609, G1610, G1611, G1701, G1702, G1703, G1705, G1706, G1707, G1708, G1709
Model Difference	All these models are identical in the same PCB, layout and electrical circuit, the only difference is model name for commercial.
Frequency Range	Bluetooth V4.1: 2402~2480 MHz
Modulation Type	Bluetooth: GFSK/ π /4-DQPSK/8-DPSK
RF Output Power	GFSK: 4.493 dBm π /4-DQPSK: 3.411 dBm 8-DPSK: 3.607 dBm
Antenna Type	Chip Antenna (Gain: 2.12dBi)
Power Source	DC Powered by host system or Battery .
Power Rating	DC 5V from USB interference. DC 3.7V from Battery.
Remark	More details EUT technical specifications, please refer to the User's Manual.

2. RF EXPOSURE INFORMATION

SAR Test Exclusion Calculations

2.1 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 distances ≤ 50 mm are determined by:

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

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

2.2

Calculation:

Bluetooth Mode						
GFSK(1Mbps)						
Frequency (MHz)	Conducte d Power (dBm)	Turn-up Power Tolerance (dB)	MAX Power of Turn-up Tolerance (dbm)	TX Power (mW)	Calculation Value	Threshold Value
2402	4.493	4 ± 1	5	3.162	0.980	3.0
2441	4.481	4 ± 1	5	3.162	0.988	3.0
2480	4.295	4 ± 1	5	3.162	0.996	3.0
$\pi/4$ -DQPSK(2Mbps)						
Frequency (MHz)	Conducte d Power (dBm)	Ant Gain (dBi)	Turn-up Power Tolerance (dB)	TX Power (mW)	Calculation Value	Threshold Value
2402	3.215	3 ± 1	4	2.512	0.779	3.0
2441	3.411	3 ± 1	4	2.512	0.785	3.0
2480	3.247	3 ± 1	4	2.512	0.791	3.0
8-DPSK(3Mbps)						
Frequency (MHz)	Conducte d Power (dBm)	Ant Gain (dBi)	Turn-up Power Tolerance (dB)	TX Power (mW)	Calculation Value	Threshold Value
2402	3.435	3 ± 1	4	2.512	0.779	3.0
2441	3.607	3 ± 1	4	2.512	0.785	3.0
2480	3.417	3 ± 1	4	2.512	0.791	3.0

So standalone SAR measurements are not required.

*****END OF REPORT*****