

# FCC RF EXPOSURE REPORT

## FCC ID: ACJ-RP-HTX90N

**Project No. : 1809C043**  
**Equipment : Digital Wireless Stereo Headphones**  
**Test Model : RP-HTX90N**  
**Series Model : N/A**  
**Applicant : Panasonic Corporation of North America**  
**Address : Two Riverfront Plaza, 9th Floor Newark, NJ 07102-54  
90 United States**

**According: : FCC Guidelines for Human Exposure IEEE C95.1 &  
KDB447498 D01**

# **B T L I N C .**

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## 1. CERTIFICATION

Equipment : Digital Wireless Stereo Headphones  
 Brand Name : Panasonic  
 Test Model : RP-HTX90N  
 Series Model : N/A  
 Applicant : Panasonic Corporation of North America  
 Manufacturer : Panasonic Corporation  
 Address : 1-15 Matsuo-cho, Kadoma-shi, Osaka 571-8504, Japan  
 Factory : Cosonic Electroacoustic Technology CO.,LTD  
 Address : No.06,Ximiaobianwang Section,Dongyuan Avenue,Shipai Town, Dongguan City, Guangdong Province, P.R. China  
 Date of Test : Sep. 10, 2018 ~ Sep. 18, 2018  
 Test Sample : Engineering Sample No.: D180907544  
 Standards : KDB447498 D01 General RF Exposure Guidance v06

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1809C043) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP according to the ISO-17025 quality assessment standard and technical standard(s).

Table for Filed Antenna

| Ant. | Brand                                                                               | Model Name | Antenna Type | Connector | Gain (dBi) |
|------|-------------------------------------------------------------------------------------|------------|--------------|-----------|------------|
| 1    |  | N/A        | PCB          | N/A       | 3.48       |

## 2. GENERAL CONCLUSION:

According to FCC KDB447498 D01, Appendix A, SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

- $f(\text{GHz})$  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

### Appendix A - SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and $\leq 50$ mm

| MHz  | 5  | 10 | 15  | 20  | 25  | 30  | 35  | 40  | 45  | 50  | mm                                 |
|------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|------------------------------------|
| 150  | 39 | 77 | 116 | 155 | 194 | 232 | 271 | 310 | 349 | 387 | SAR Test Exclusion Thresholds (mW) |
| 300  | 27 | 55 | 82  | 110 | 137 | 164 | 192 | 219 | 246 | 274 |                                    |
| 450  | 22 | 45 | 67  | 89  | 112 | 134 | 157 | 179 | 201 | 224 |                                    |
| 835  | 16 | 33 | 49  | 66  | 82  | 98  | 115 | 131 | 148 | 164 |                                    |
| 900  | 16 | 32 | 47  | 63  | 79  | 95  | 111 | 126 | 142 | 158 |                                    |
| 1500 | 12 | 24 | 37  | 49  | 61  | 73  | 86  | 98  | 110 | 122 |                                    |
| 1900 | 11 | 22 | 33  | 44  | 54  | 65  | 76  | 87  | 98  | 109 |                                    |
| 2450 | 10 | 19 | 29  | 38  | 48  | 57  | 67  | 77  | 86  | 96  |                                    |
| 3600 | 8  | 16 | 24  | 32  | 40  | 47  | 55  | 63  | 71  | 79  |                                    |
| 5200 | 7  | 13 | 20  | 26  | 33  | 39  | 46  | 53  | 59  | 66  |                                    |
| 5400 | 6  | 13 | 19  | 26  | 32  | 39  | 45  | 52  | 58  | 65  |                                    |
| 5800 | 6  | 12 | 19  | 25  | 31  | 37  | 44  | 50  | 56  | 62  |                                    |

Maximum measured transmitter power:

| Max Output Power (dBm) | Max Output Power (mW) | Limit (mW) |
|------------------------|-----------------------|------------|
| 4.28                   | 2.679                 | 10         |

The maximum measured output peak power of this EUT is 2.679mW, less than 10mW at 5mm distance.

Conclusion: No SAR evaluation required since transmitter power is below FCC threshold.