

# RF Exposure Evaluation Report

## 1 RF EXPOSURE

|              |                                         |
|--------------|-----------------------------------------|
| Product Name | MultispeQ                               |
| Model No.    | MultispeQ 2.0,MultispeQ 2.x (“x”=1-100) |
| FCC ID       | 2AMP8MULTISPEQ20                        |

## 1.1 LIMITS

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:

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

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

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 exclusio

## 1.2 EUT RF EXPOSURE EVALUATION

| Operational Mode: GFSK                                         |                                           |                        |                             |                            |                  |                     |
|----------------------------------------------------------------|-------------------------------------------|------------------------|-----------------------------|----------------------------|------------------|---------------------|
| Channel                                                        | Maximum Peak Conducted Output Power (dBm) | Tune up tolerance (dB) | Maximum tune-up Power (dBm) | Maximum tune-up Power (mW) | Calculated value | Exclusion threshold |
| 2402MHz                                                        | -7.06                                     | $\pm 1$                | -6.06                       | 0.248                      | 0.077            | 3                   |
| 2441MHz                                                        | -7.21                                     | $\pm 1$                | -6.21                       | 0.239                      | 0.075            | 3                   |
| 2480MHz                                                        | -4.60                                     | $\pm 1$                | -3.60                       | 0.437                      | 0.1375           | 3                   |
| Conclusion: the calculated value $\leq 3.0$ , SAR is exempted. |                                           |                        |                             |                            |                  |                     |