

RF Exposure Considerations for FCC ID: 2AKSX02R2

Per FCC KDB 447498 D01 General RF Exposure Guidance v06.

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 (Eq.1) below:

$$SAR = \frac{MaxPower(mW)}{d(mm)} \times \sqrt{f(GHz)} \quad (Eq. 1)$$

Where:

- SAR is the calculation for test exclusion threshold;
- *MaxPower* is the maximum power of channel, including tune-up tolerance, in mW;
- *d* is the minimum test separation distance, in mm;
- *f* 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.

If result of Eq.1 is less than or equal to the exemption limits below, then corresponding SAR test is not required.

SAR Test Configuration	Exemption limit
1-g SAR	Result of Eq.1 ≤ 3.0
10-g extremity SAR	Result of Eq.1 ≤ 7.5

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 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.

COORDONNEES

SMEE
Rue de Taille – ZI Des Blanchisseries
38500 VOIRON - France

TEL : 04 76 65 76 50
FAX : 04 76 66 18 30

SAS au capital de 50 000 € / RC Grenoble B534 796 453 / SIRET 534 796 453 00015 / code APE 7490B / n° TVA : FR 59 534 796 453



For this device, the parameters for consideration are as follows:

<i>Frequency (MHz)</i>	<i>Maximum source-based time averaged conducted output power including tune-up tolerance</i>	<i>Minimum separation distance (mm)</i>	<i>Result of Eq. 1</i>	<i>Limit for 1-g SAR</i>	<i>Limit for 10-g extremity SAR</i>	<i>Verdict</i>
2402	2.51mW (4dBm)	5	0.78	3.0	7.5	Exempt from SAR
2440	2.51mW (4dBm)	5	0.79	3.0	7.5	Exempt from SAR
2480	2.51mW (4dBm)	5	0.79	3.0	7.5	Exempt from SAR

Conclusion: Therefore the device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.

Certified By

Laurent CHAPUS (Agent for this device)

SMEE

Rue de Taille

ZI des Blanchisseries

38500 Voiron - France

laurent.chapus@smee.fr

FCC Registration Number: 0020356952 (FRN) / Test Firm Registration Number: 171131

Applicant for this device:

JOY

Mr. Sam Hickmann

5 avenue du Belvedere

74940 Annecy-Le-Vieux – France

Ph: +1 415 939 0710

Email: sam@heyjoy.io

FRN: 0026148791