

Registration number: W6M22011-20439-C-1
FCC ID: QSWST2GEN1

3.2 Equivalent isotropic radiated power

FCC Rule: 15.247(b)(3)

EIRP = max. conducted output power + antenna gain

BLE

EIRP = -0.49 dBm + (1.75 dBi [antenna gain claimed by manufacturer]) = 1.26 dBm = 1.34 mW

ANT+

EIRP = -1.60 dBm + (1.75 dBi [antenna gain claimed by manufacturer]) = 0.15 dBm = 1.04 mW

3.3 Exemption Limits for Routine Evaluation according to FCC KDB Publication

RESULT:

Test standard : FCC KDB Publication
447498 D01 General RF Exposure Guidance v06

According to 447498 D01 General RF Exposure Guidance v06:

SAR evaluation, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

3.3.1 Exemption Limits for Routine Evaluation – SAR Evaluation

SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table .

Table: SAR evaluation — Exemption limits for routine evaluation based on frequency and separation distance

BLE

MHz	5	10	15	20	25	mm
2480	9.95	18.92	28.87	37.84	47.79	SAR Test Exclusion Threshold (mW)

MHz	30	35	40	45	50	mm
2480	56.74	66.69	76.63	85.61	95.56	SAR Test Exclusion Threshold (mW)

Output power level shall be the higher of the maximum conducted or equivalent isotropically radiated power (e.i.r.p.) source-based, time-averaged output power.

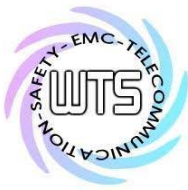
Established separation distance is 5 mm.

BLE

Operating frequency band : 2402-2480 MHz

Max. output power level at 5 mm separation distance at 2480 MHz according to table is: 9.95 mW

The product is exempt from SAR Evaluation/Testing because the output power of 1.34 mW is below the exemption limit of 9.95 mW.



Worldwide Testing Services(Taiwan) Co., Ltd.

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ANT+

MHz	5	10	15	20	25	mm
2457	9.99	18.98	28.97	37.96	47.95	SAR Test Exclusion Threshold (mW)

MHz	30	35	40	45	50	mm
2457	56.94	66.93	76.91	85.91	95.90	SAR Test Exclusion Threshold (mW)

Output power level shall be the higher of the maximum conducted or equivalent isotropically radiated power (e.i.r.p.) source-based, time-averaged output power.

Established separation distance is 5 mm.

ANT+

Operating frequency band : 2457 MHz

Max. output power level at 5 mm separation distance at 2457 MHz
according to table is: 9.99 mW

The product is exempt from SAR Evaluation/Testing because the output power of 1.04 mW is below the exemption limit of 9.99 mW.