

Equivalent Isotropic Radiated Power (EIRP)

FCC Rule: 15.247(b)(3)

510.125-607.875 MHz

EIRP = max. conducted output power + antenna gain

EIRP = 10.54 dBm = 11.32 mW

614.125-615.875 MHz

EIRP = max. conducted output power + antenna gain

EIRP = 9.19 dBm = 8.30 mW

657.125-662.875 MHz

EIRP = max. conducted output power + antenna gain

EIRP = 9.68 dBm = 9.29 mW

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

510.125-607.875 MHz

MHz	5	10	15	20	25	mm
559	20.30	41.60	61.90	82.49	103.51	SAR Test Exclusion Threshold (mW)

MHz	30	35	40	45	50	mm
559	123.81	145.11	165.41	185.99	207.01	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.

Operating frequency band : 510.125-607.875 MHz

Max. output power level at 5 mm separation distance at 559 MHz according to table is: 20.30 mW

The product is exempt from SAR Evaluation/Testing because the output power of 11.32 mW is below the exemption limit of 20.30 mW.

614.125-615.875 MHz

MHz	5	10	15	20	25	mm
614.125	19.44	39.88	59.33	79.20	99.21	SAR Test Exclusion Threshold (mW)

MHz	30	35	40	45	50	mm
614.125	118.65	139.10	158.54	178.41	198.42	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.

Operating frequency band : 614.125-615.875 MHz

Max. output power level at 5 mm separation distance at 614.125 MHz according to table is: 19.44 mW

The product is exempt from SAR Evaluation/Testing because the output power of 8.30 mW is below the exemption limit of 19.44 mW.

657.125-662.875 MHz

MHz	5	10	15	20	25	mm
657.125	18.77	38.54	57.32	76.63	95.86	SAR Test Exclusion Threshold (mW)

MHz	30	35	40	45	50	mm
657.125	114.63	134.40	153.18	172.49	191.72	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.

Operating frequency band : 657.125-662.875 MHz

Max. output power level at 5 mm separation distance at 657.125 MHz according to table is:18.77 mW

The product is exempt from SAR Evaluation/Testing because the output power of 9.29 mW is below the exemption limit of 18.77 mW.