

Safety Human Exposure

1.1 Radio Frequency Exposure Compliance

1.1.1 Electromagnetic Fields

RESULT:

Pass

Test Specification

Test item	: WPC
Identification / Type No.	: 524B/525A WPC
FCC ID	: 2AXPS524B525AWPC
IC	: 26574-524B525AWPC
HVIN	: 524B/525A WPC
PMN	: WPC
Test standard	: CFR47 FCC Part 2: Section 2.1093 CFR47 FCC Part 1: Section 1.1310 FCC KDB 447498 D04 Interim General RF Exposure Guidance v01 RSS-102 Issue 5

➤ **FCC Part 1.1310, Part 2.1091**

The Maximum E-field is 67.21dBuV/m@3m*, i.e. EIRP -28.0dBm (0.002mW), which much lower than 1mW, As per section 2.1.2_1-mW Test Exemption of KDB 447498 D04, EUT is excluded from MPE evaluation.

*Refer to NFC Report CN2413E3 001.

➤ **RSS-102 section 2.5.1 Exemption Limits for Routine Evaluation – RF Exposure 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 1.

Table 1: SAR evaluation – Exemption limits for routine evaluation based on frequency and separation distance^{4,5}

Frequency (MHz)	Exemption Limits (mW)				
	At separation distance of ≤5 mm	At separation distance of 10 mm	At separation distance of 15 mm	At separation distance of 20 mm	At separation distance of 25 mm
≤300	71 mW	101 mW	132 mW	162 mW	193 mW
450	52 mW	70 mW	88 mW	106 mW	123 mW
835	17 mW	30 mW	42 mW	55 mW	67 mW
1900	7 mW	10 mW	18 mW	34 mW	60 mW
2450	4 mW	7 mW	15 mW	30 mW	52 mW
3500	2 mW	6 mW	16 mW	32 mW	55 mW
5800	1 mW	6 mW	15 mW	27 mW	41 mW

Frequency (MHz)	Exemption Limits (mW)				
	At separation distance of 30 mm	At separation distance of 35 mm	At separation distance of 40 mm	At separation distance of 45 mm	At separation distance of ≥50 mm
≤300	223 mW	254 mW	284 mW	315 mW	345 mW
450	141 mW	159 mW	177 mW	195 mW	213 mW
835	80 mW	92 mW	105 mW	117 mW	130 mW
1900	99 mW	153 mW	225 mW	316 mW	431 mW
2450	83 mW	123 mW	173 mW	235 mW	309 mW
3500	86 mW	124 mW	170 mW	225 mW	290 mW
5800	56 mW	71 mW	85 mW	97 mW	106 mW

EUT RF Exposure Evaluation standalone operations

Operating Mode	*Max. EIRP Power incl. tune-up (dBm)	The higher of the conducted Power or e.i.r.p. (mW)	Threshold power (mW)	Verdict
RF ID	-28.0dBm	0.002	71	Pass

* The Maximum E-field is 67.21dBuV/m@3m* (Refer to NFC Report CN2413E3 001), i.e. EIRP -28dBm (0.002mW), far below the threshold power.
Conclusion: test is exempted.