



## SAR exemption evaluation

<b>Applicant</b>	ID TECH
<b>FCC ID</b>	WQJ-PiP
<b>Product</b>	PiP
<b>Brand</b>	ID TECH
<b>Model</b>	PiP
<b>Report No.</b>	R1909A0572-S1
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**Conducted Power**

Carrier frequency (MHz)	worst-case peak radiated emission (dBμV/m)
13.553	71.477

The worst-case peak radiated emission for the EUT is 71.477 dBμV/m at 3m in the frequency 13.558MHz

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = -23.723$$

$$\text{ERP} = \text{EIRP} - 2.15 = -23.723 \text{ dBm, Gain}=0\text{dBi}$$

So

$$\text{Maximum Output Power} = -23.723 \text{ dBm}$$

**Test result**

Per KDB 447498 D01, the 1-g SAR test exclusion thresholds for frequencies below 100 MHz and test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \cdot 0.5 \leq 3.0 \text{ for 1-g SAR}$$

where

- The test separation distance at 50mm
- The test frequency at 100 MHz

Frequency (MHz)	Distance (mm)	MAX Power (dBm)	Ratio	Evaluation
13.558	50	-23.723	0.00134	No