

#### **ACQUISITION SYSTEMS**

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17th March 2025

# **RF Exposure Analysis – Routine Evaluation Exemption**

FCC ID: 2BFIVVS8601

Model number/name: VS8601 / iVAS Roam Portable Viable Air Sampler

The above device operates using a 13.56 MHz transmitter.

# The following FCC Rule Parts are applicable:

Part 2.1093 – Radiofrequency radiation exposure evaluation: portable devices

Part 1.1307(b)(3)(i)(A) - Blanket RF exposure exemption (i)

Part 1.1307(b)(3)(i)(C) - MPE test exemption (ii) Part 1.1307(b)(3)(i)(B) - SAR test exemption (iii)

#### For the above device:

Operating Frequency: 13.56 MHz

Tx Power<sub>max</sub> (declared):  $54.2 \text{ dB}\mu\text{V/m}$  @3m = -41 dBm EIRP = -43.15 dBm ERP

Measured radiated power - Ref KDB447498 D04 Section 3.1.2 -

When an antenna port is not available on the device to support conducted power measurement, e.g.: with built-in integral antennas, the available maximum output power or ERP, whichever is larger, and tolerance allowed for production units shall be used to determine RF exposure test exemption and compliance.

## **Evaluation**

From Part 1.1307, RF exposure exemption applies if the maximum transmitted power is less than the maximum of the following three criteria:

- i) Less than 1 mw Blanket exemption.  $P_{TH} = 0.001 \text{ W} \S1.1307(b)(3)(i)(A)$
- ii) determination of exemption under the MPE-based §1.1307(b)(3)(i)(C), if i) not met
- iii) determination of exemption under the SAR-based §1.1307(b)(3)(i)(B) if both i) and ii) are not met;

### **Conclusion:**

The source-based, time-averaged power of -43.15 dBm is less than 1 mW (0 dBm) and therefore the above device is exempt from evaluation in accordance with §1.1307(b)(3)(i)(A).

Yours faithfully,

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