





Test Report No.: FM180516N039

RF EXPOSURE REPORT

| | |
|-----------|---|
| Applicant | Voxx Accessories Corp. |
| Address | 3502 Woodview Trace, Suite 220 Indianapolis, IN 46268 USA |

| | |
|-------------------------------------|--|
| Manufacturer or Supplier | Dong Guan Lightion Electronics Co., LTD. |
| Address | Meilin Dist, DaLingShan Dongguan, Guangdong, China |
| Product | Karaoke System with Bluetooth |
| Brand Name | SINGSATION |
| Model | SPKA30 |
| Additional Model & Model Difference | N/A |
| Date of tests | May 16, 2018 ~ Jun. 06, 2018 |

☒ FCC Part 2 (Section 2.1091)☒ KDB 447498 D01☒ IEEE C95.1**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

| | |
|---|---|
| Tested by Andy Zhu Project Engineer / EMC Department | Approved by Glyn He Supervisor/ EMC Department |
|  |  Date: Jun. 22, 2018 |

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RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|--------------|-------------------|---------------|
| FM180516N039 | Original release | Jun. 22, 2018 |

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1. CERTIFICATION

| | |
|------------------------|-------------------------------|
| FCC ID: | VIXSPKA30 |
| PRODUCT: | Karaoke System with Bluetooth |
| BRAND NAME: | SINGSATION |
| MODEL NO.: | SPKA30 |
| ADDITIONAL NO.: | N/A |
| APPLICANT: | Voxx Accessories Corp. |
| STANDARDS: | FCC Part 2 (Section 2.1091) |
| | KDB 447498 D01 |
| | IEEE C95.1 |

2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| FREQUENCY RANGE (MHz) | ELECTRIC FIELD STRENGTH (V/m) | MAGNETIC FIELD STRENGTH (A/m) | POWER DENSITY (mW/cm ²) | AVERAGE TIME (minutes) |
|---|-------------------------------|-------------------------------|-------------------------------------|------------------------|
| LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE | | | | |
| 300-1500 | ... | ... | F/1500 | 30 |
| 1500-100,000 | ... | ... | 1.0 | 30 |

F = Frequency in MHz

3. MPE CALCULATION FORMULA

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

| Transmitter Circuit | Peak Gain (dBi) | Antenna Type |
|---------------------|-----------------|--------------|
| Chain 0 | 0 | PCB Antenna |

6. CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER

The tuned conducted Average Power (declared by client)

| Mode | Frequency (MHz) | Target Power (dBm) | Tolerance (dBm) | Lower Tolerance (dBm) | Upper Tolerance (dBm) |
|-------|-----------------|--------------------|-----------------|-----------------------|-----------------------|
| GFSK | 2402-2480 | -2 | +/-2 | -4 | 0 |
| 8DPSK | 2402-2480 | -2 | +/-2 | -4 | 0 |

The measured conducted Average Power

| Mode | Frequency (MHz) | Averaged Power (dBm) |
|-------|-----------------|----------------------|
| GFSK | 2402 | -1.03 |
| 8DPSK | 2402 | -0.53 |

| FREQUENCY BAND (MHz) | MAX AVERAGE POWER (dBm) | ANTENNA GAIN (dBi) | DISTANCE (cm) | POWER DENSITY (mW/cm ²) | LIMIT (mW/cm ²) |
|----------------------|-------------------------|--------------------|---------------|-------------------------------------|-----------------------------|
| 2402-2480 | 0 | 0 | 20 | 0.000199 | 1.0 |

--- END ---