

RF Exposure Evaluation Report

Product Name : Car Audio

Model No. : PI-4305A-A, PI-4306A-A

FCC ID : Q2ZPI4305A

Applicant : Clarion (M) Sdn Bhd

Address : Phase 3 FIZ, Bayan Lepas, Malaysia, 11400

Date of Receipt : Feb. 04, 2020

Date of Declaration : Mar. 13, 2020

Report No. : 2020024R-SAUSP03V00

Report Version : V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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Issued Date: Mar. 13, 2020

Report No.: 2020024R-SAUSP03V00



| | | |
|---------------------|---|---|
| Product Name | Car Audio | |
| Applicant | Clarion (M) Sdn Bhd | |
| Address | Phase 3 FIZ, Bayan Lepas, Malaysia, 11400 | |
| Manufacturer | Clarion Asia (Thailand) Co., Ltd. | |
| Model No. | PI-4305A-A, PI-4306A-A | |
| FCC ID. | Q2ZPI4305A | |
| Trade Name | Clarion | |
| Applicable Standard | KDB 447498 D01 v06 | <input type="checkbox"/> Minimum test separation distance ≥ 20 cm <input checked="" type="checkbox"/> For low power devices |
| Test Result | Complied | |

Documented By :



(Adm. Assistant / Ida Tung)

Tested By :



(Senior Engineer / Wen Lee)

Approved By :



(Director / Vincent Lin)

1. GENERAL INFORMATION

1.1. EUT Description

| | |
|--------------------|---|
| Product Name | Car Audio |
| Trade Name | Clarion |
| Model No. | PI-4305A-A, PI-4306A-A |
| FCC ID. | Q2ZPI4305A |
| Frequency Range | 2402-2480MHz |
| Channel Number | 79 |
| Type of Modulation | FHSS: GFSK(1Mbps) / π /4DQPSK(2Mbps) / 8DPSK(3Mbps) |
| Antenna Type | PCB Antenna |
| Channel Control | Auto |
| Antenna Gain | Refer to the table “Antenna List” |

Antenna List

| No. | Manufacturer | Part No. | Antenna Type | Peak Gain |
|-----|--------------|----------|--------------|-----------------|
| 1 | Plextek | N/A | PCB antenna | 0dBi for 2.4GHz |

2. RF Exposure Evaluation

2.1. Standard Applicable

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

2.2. Measurement Result:

According to KDB Publication 447498 D01, section 4.3.1, per the calculations of item 1 $(\text{Power(mW)}/\text{separation (mm)} \cdot \sqrt{f(\text{GHz})} \leq 3.0)$, SAR is required as shown in the table below where calculated values are greater than 3.0:

- 1.) Operation frequency = 2450MHz and antenna separation distance = 5mm,
SAR Test Exclusion Threshold = 10mW

| Frequency Band (MHz) | Maximum output power Peak Gain: 0dBi | | | SAR Test Exclusion Threshold | Calculated Threshold Value (≤ 3.0 SAR is not required) |
|-------------------------|---|---------------|--------------|---------------------------------|---|
| | Power (dBm) | EIRP (dBm) | EIRP (mW) | (mW) | |
| 2402 – 2480 | -1.41 | -1.41 | 0.72 | 10 | 0.226 |

Note1: The SAR/MPE measurement is not necessary.

Note2: The maximum peak output power is refer to report No.: 2020024R-RFUSP01V00 from the DEKRA.