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FCC MPE REPORT

FCC Certification

Applicant Name:

HYUNDAI MOBIS CO., LTD.

Address:

203, Teheran-ro, Gangnam-gu, Seoul, 135-977, South

Korea

Date of Issue:

October 11, 2017

Test Site/Location:

HCT CO., LTD., 74,Seoicheon-ro 578beon-gil,Majang-myeo,Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

Report No.: HCT-R-1710-E002

HCT FRN: 0005866421

FCC ID

: TQ8-ADC31A9AN-1

APPLICANT

: HYUNDAI MOBIS CO., LTD.

Model:

ADC31A9AN

EUT Type:

Car Audio System

Frequency Range:

2402 MHz - 2480 MHz (Bluetooth)

The measurements shown in this report were made in accordance with the procedures specified in §2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)

Report prepared by : Soo Kyung Kang Engineer of Telecommunication testing center

Approved by: Yong Hyun Lee

Manager of Telecommunication testing center

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Report No: HCT-R-1710-E002

FCC ID: TQ8-ADC31A9AN-1

Version

| TEST REPORT NO. | DATE | DESCRIPTION |
|-----------------|------------------|-------------------------|
| HCT-R-1710-E002 | October 11, 2017 | - First Approval Report |
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RF Exposure Statement

1. LIMITS

According to §1.1310 and §2.1091 RF exposure is calculated.

(B) Limits for General Population/Uncontrolled Exposures

| Frequency range | Electric field | Magnetic field | Power density | Averaging time |
|-----------------|----------------------|-------------------------|--|----------------------------|
| (MHz) | Strength (V/m) | Strength (A/m) | (mW/cm²) | (minutes) |
| 0.3 - 1.34 | 614 824/f 27.5 | 1.63 2.19/f 0.073 | *(100) *(180/ f²) 0.2 f/1500 1.0 | 30 30 30 30 30 |

F = frequency in MHz

2. MAXIMUM PERMISSIBLE EXPOSURE Prediction

Prediction of MPE limit at a given distance

 $S = PG/4\pi R^2$

S = Power density

F-TP22-03 (Rev.00)

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

^{* =} Plane-wave equivalent power density



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3. RESULTS

BT Only

| Max Peak output Power at antenna input terminal | 4.311 | dBm |
|---|----------|--------------------|
| Max Peak output Power at antenna input terminal | 2.698 | mW |
| Prediction distance | 20.000 | cm |
| Prediction frequency | 2441.000 | MHz |
| Antenna Gain(typical) | 2.460 | dBi |
| Antenna Gain(numeric) | 1.762 | - |
| Power density at prediction frequency(S) | 0.000946 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.000 | mW/cm ² |