

TEST REPORT

FCC MPE Test for ADXV-R-339P
Class II Permissive Change

APPLICANT
ADRF KOREA, Inc.

REPORT NO.
HCT-RF-2110-FC008-R1

DATE OF ISSUE
November 5, 2021

Tested by
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ADXV-R-339P

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Additional Model

-

Applicant

ADRF KOREA, Inc.

5-5, Mojeon-Ri, Backsa-Myun, Icheon-City, Kyunggi-Do, Korea

**Eut Type
Model Name**

DAS

ADXV-R-339P

FCC ID

N52-ADXV-R-339P

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.

This test results were applied only to the test methods required by the standard.

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	October 28, 2021	Initial Release
1	November 5, 2021	Revised the results.

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules under normal use and maintenance.

If this report is required to confirmation of authenticity, please contact to www.hct.co.kr

RF Exposure Statement

1. Limit

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

(B) Limits for General Population/Uncontrolled Exposures				
Frequency range (MHz)	Electric field Strength (V/m)	Magnetic field Strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
0.3 - 1.34.....	614	1.63	*(100)	30
1.34 - 30.....	824/f	2.19/f	*(180/f ²)	30
30 - 300.....	27.5	0.073	0.2	30
300 - 1500.....	f/1500	30
1500 - 100.000.....	1.0	30

F = frequency in MHz

* = Plane-wave equivalent power density

2. Maximum Permissible Exposure Prediction

Prediction of MPE limit at a given distance

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

S = Power density

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

3. RESULTS

3.1 MPE calculation for standalone operations

- 900 MHz Broadband – LTE 1.4 MHz (Downlink)

Max Peak output Power at antenna input terminal	32.50	dBm
Max Peak output Power at antenna input terminal	1778.28	mW
Prediction distance	30.00	cm
Prediction frequency	936.50	MHz
Antenna Gain(typical)	2.00	dBi
Antenna Gain(numeric)	1.58	-
Power density at prediction frequency(S)	0.2492	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	0.6243	mW/cm ²

- 900 MHz Broadband – LTE 3 MHz (Downlink)

Max Peak output Power at antenna input terminal	32.50	dBm
Max Peak output Power at antenna input terminal	1778.28	mW
Prediction distance	30.00	cm
Prediction frequency	936.50	MHz
Antenna Gain(typical)	2.00	dBi
Antenna Gain(numeric)	1.58	-
Power density at prediction frequency(S)	0.2492	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	0.6243	mW/cm ²