

# TEST REPORT

FCC MPE Test for ADVX-R-339P  
Certification

**APPLICANT**  
ADRF KOREA, Inc.

**REPORT NO.**  
HCT-RF-2008-FC058-R1

**DATE OF ISSUE**  
8 September 2020

**Tested by**  
Kyung Soo Kang



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**Technical Manager**  
Jong Seok Lee



**HCT CO., LTD.**

*Soo Chan Lee*  
SooChan Lee / CEO

**HCT CO., LTD.**

74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA  
Tel. +82 31 634 6300 Fax. +82 31 645 6401



HCT Co., Ltd.

74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA  
Tel. +82 31 634 6300 Fax. +82 31 645 6401

고 객 비 밀  
CUSTOMER SECRET

# TEST REPORT

FCC MPE Test for  
ADXV-R-339P

REPORT NO.  
HCT-RF-2008-FC058-R1

DATE OF ISSUE  
September 08, 2020

Additional Model  
-

Applicant **ADRF KOREA, Inc.**  
5-5, Mojeon-Ri, Backsa-Myun, Icheon-Citi, Kyunggi-Do, Korea

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Eut Type	DAS
Model Name	ADXV-R-339P

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FCC ID	N52-ADXV-R-339P
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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	August 27, 2020	Initial Release
1	September 08, 2020	Revised the 'Prediction distance' and the 'Antenna gain'.

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.

\* The report shall not be reproduced except in full(only partly) without approval of the laboratory.



## 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 (MHz)	Electric field Strength (V/m)	Magnetic field Strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
0.3 - 1.34.....	614	1.63	*(100)	30
1.34 - 30.....	824/f	2.19/f	*(180/ f <sup>2</sup> )	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

- 928 ~ 929 MHz (Downlink)

Max Peak output Power at antenna input terminal	33.50	dBm
Max Peak output Power at antenna input terminal	2238.72	mW
Prediction distance	30.00	cm
Prediction frequency	928.3125	MHz
Antenna Gain(typical)	3.00	dBi
Antenna Gain(numeric)	2.00	-
Power density at prediction frequency( S)	0.3950	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	0.6189	mW/cm <sup>2</sup>

- 929 ~ 930 MHz (Downlink)

Max Peak output Power at antenna input terminal	33.50	dBm
Max Peak output Power at antenna input terminal	2238.72	mW
Prediction distance	30.00	cm
Prediction frequency	929.3125	MHz
Antenna Gain(typical)	3.00	dBi
Antenna Gain(numeric)	2.00	-
Power density at prediction frequency( S)	0.3950	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	0.6195	mW/cm <sup>2</sup>

- 930 ~ 931 MHz (Downlink)

Max Peak output Power at antenna input terminal	33.50	dBm
Max Peak output Power at antenna input terminal	2238.72	mW
Prediction distance	30.00	cm
Prediction frequency	930.3125	MHz
Antenna Gain(typical)	3.00	dBi
Antenna Gain(numeric)	2.00	-
Power density at prediction frequency( S)	0.3950	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	0.6202	mW/cm <sup>2</sup>

- 931 ~ 932 MHz (Downlink)

Max Peak output Power at antenna input terminal	33.50	dBm
Max Peak output Power at antenna input terminal	2238.72	mW
Prediction distance	30.00	cm
Prediction frequency	931.3125	MHz
Antenna Gain(typical)	3.00	dBi
Antenna Gain(numeric)	2.00	-
Power density at prediction frequency( S)	0.3950	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	0.6209	mW/cm <sup>2</sup>

- 932 ~ 935 MHz (Downlink)

Max Peak output Power at antenna input terminal	33.50	dBm
Max Peak output Power at antenna input terminal	2238.72	mW
Prediction distance	30.00	cm
Prediction frequency	932.3125	MHz
Antenna Gain(typical)	3.00	dBi
Antenna Gain(numeric)	2.00	-
Power density at prediction frequency( S)	0.3950	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	0.6215	mW/cm <sup>2</sup>

- 935 ~ 940 MHz (Downlink)

Max Peak output Power at antenna input terminal	33.50	dBm
Max Peak output Power at antenna input terminal	2238.72	mW
Prediction distance	30.00	cm
Prediction frequency	935.3125	MHz
Antenna Gain(typical)	3.00	dBi
Antenna Gain(numeric)	2.00	-
Power density at prediction frequency( S)	0.3950	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	0.6235	mW/cm <sup>2</sup>



- 940 ~ 941 MHz (Downlink)

Max Peak output Power at antenna input terminal	33.50	dBm
Max Peak output Power at antenna input terminal	2238.72	mW
Prediction distance	30.00	cm
Prediction frequency	940.3125	MHz
Antenna Gain(typical)	3.00	dBi
Antenna Gain(numeric)	2.00	-
Power density at prediction frequency( S)	0.3950	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	0.6269	mW/cm <sup>2</sup>