

TEST REPORT

FCC MPE Test for SDRX-43-BTF Certification

APPLICANT ADRF KOREA, Inc.

REPORT NO. HCT-RF-2202-FC004

DATE OF ISSUE February 7, 2022

> Tested by Kyung Soo Kang

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Technical Manager Jong Seok Lee

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F-TP22-03(Rev.04)

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TEST REPORT FCC MPE Test for SDRX-43-BTF	REPORT NO. HCT-RF-2202-FC004 DATE OF ISSUE February 07, 2022 Additional Model
Applicant	ADRF KOREA, Inc.

	5-5, Mojeon-Ri, Backsa-Myun, Icheon-Citi, Kyunggi-Do, Korea
Eut Type Model Name	Repeater SDRX-43-BTF
FCC ID	N52-SDRX-43-BTF
	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	February 07, 2022	Initial Release

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)	Magneticfield Strength (A/m)	Powerdensity (mW/cm²)	Averagingtime (minutes)
0.3 - 1.34 1.34 - 30 30 - 300 300 - 1500 1500 - 100.000	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/ f ²) 0.2 f/1500 1.0	30 30 30 30 30

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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

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3. RESULTS

- BRS/EBS – 5G NR 100 MHz (Uplink)		
Max Peak output Power at antenna input terminal	30.50	dBm
Max Peak output Power at antenna input terminal	1122.02	mW
Prediction distance	140.00	cm
Prediction frequency	2496.00	MHz
Antenna Gain(typical)	20.40	dBi
Antenna Gain(numeric)	109.65	-
Power density at prediction frequency(S)	0.4995	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

- BRS/EBS - 5G NR	100 MHz	(Downlink)
	100 1011 12	

Max Peak output Power at antenna input terminal	43.50	dBm
Max Peak output Power at antenna input terminal	22387.21	mW
Prediction distance	110.00	cm
Prediction frequency	2496.00	MHz
Antenna Gain(typical)	5.30	dBi
Antenna Gain(numeric)	3.39	-
Power density at prediction frequency(S)	0.4989	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²