

RF Exposure Evaluation Report


Client: Fireboard Labs LLC

Address: 501 Charlotte St
Kansas City, MO 64106

EUT: FBWP

FCC ID: 2A29A-FBWP24
IC ID: 27842-FBWP24

Test Report No.: R20240503-00-M1

Approved By: 
Blake Winter,
EMC Test Engineer
iNARTE EMC-50662-E

Date: August 27, 2024

Total Pages: 6

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Revision Page

Rev. No.	Date	Description
0	27 August 2024	Issued by BWinter Reviewed by KVepuri Prepared by BWinter

1 Regulatory Requirements:

FCC Part 1.1310, 2.1091, 2.1093
KDB 447498 D01

Summary:

The purpose of this report is to evaluate the EUT's transmitter for exemption from routine SAR testing.

EUT:

Model:

FCC ID:

IC ID:

FBWP

2A29A-FBWP24

27842-FBWP24

MPE Lab

MPE Labs FCC Cab Designation:

MPE Labs ISED Cab Designation:

Nebraska Center for Excellence in Electronics

US1060

US0177

2 FCC Limits, Part 1.1310

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
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
300-1,500			f/1500	30
1,500-100,000			1.0	30

Calculations:

The sum of the maximum time-averaged power of the two sources in this device is less than 1mW per 1.1307(b)(3)(ii)(A).

EUT

FCC maximum time-averaged power Calculations							
Freq.	Peak Power EIRP	Peak Power EIRP +10% for Tolerance	On time per cycle	Cycle Time	Average Power	Average Power Sum	Result
MHz	mW	mW	Seconds	Seconds	mW	mW	
912.00	1.84	2.02	0.06	20	0.0061	0.3261	PASS
2402	0.29	0.32	NA	NA	0.32		

Result:

The EUT was found to be exempt from routine SAR testing and **COMPLIANT** with RF exposure requirements.

Result:
Complies

REPORT END