



F2 Labs
16740 Peters Road
Middlefield, Ohio 44062
United States of America
www.f2labs.com

CERTIFICATION TEST REPORT

Manufacturer: **Grayshift LLC**
931 Monroe Drive Northeast, Suite A 102-340
Atlanta, Georgia 30308 USA

Applicant: **Same As Above**

Product Name: **GrayKey**

Product Description: GrayKey - Digital Forensic Access Unit for Mobile Devices.

Model: **GK01**

FCC ID: **2AV7EGK01**

Testing Commenced: 2018-10-10

Testing Ended: 2020-04-29

Test Results: **In Compliance, with Modifications**

The EUT complies with the EMC requirements when manufactured identically as the unit tested in this report, including any required modifications. Any changes to the design or build of this unit subsequent to this testing may deem it non-compliant.

Standards:
• **KDB447498**



Order Nos.: F2P19714A, F2P19714A-C1

Client: Grayshift LLC

Model: GK01

Evaluation Conducted by:

Julius Chiller, EMC/Wireless Engineer

Report Reviewed by:

Ken Littell, Director of EMC & Wireless Operations

F2 Labs
26501 Ridge Road
Damascus, MD 20872
Ph 301.253.4500

F2 Labs
16740 Peters Road
Middlefield, OH 44062
Ph 440.632.5541

F2 Labs
8583 Zionsville Road
Indianapolis, IN 46268
Ph 317.610.0611

This test report may be reproduced in full; partial reproduction only may be made with the written consent of F2 Labs. The results in this report apply only to the equipment tested.



TABLE OF CONTENTS

Section	Title	Page
1	ADMINISTRATIVE INFORMATION	4
2	SUMMARY OF TEST RESULTS/MODIFICATIONS	5
3	ENGINEERING STATEMENT	6
4	EUT INFORMATION AND DATA	7
5	RF EXPOSURE FOR DEVICE >20cm FROM HUMAN	8



1 ADMINISTRATIVE INFORMATION

1.1 Measurement Location:

F2 Labs in Middlefield, Ohio. Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD.

1.2 Measurement Procedure:

All measurements were performed according to KDB558074.

1.4 Document History

Document Number	Description	Issue Date	Approved By
F2P19714A-10E	First Issue	2020-05-11	K. Littell



Order Nos.: F2P19714A, F2P19714A-C1

Client: Grayshift LLC

Model: GK01

2 SUMMARY OF TEST RESULTS

Test Name	Standard(s)	Results
RF Exposure for Device >20cm from Human	KDB447498	Complies

Modifications Made to the Equipment
None



Order Nos.: F2P19714A, F2P19714A-C1

Client: Grayshift LLC

Model: GK01

3 ENGINEERING STATEMENT

This report has been prepared on behalf of Grayshift LLC to provide documentation for the testing described herein. This equipment has been tested and found to comply with KDB447498. The test results found in this test report relate only to the item(s) tested.



4 EUT INFORMATION AND DATA

4.1 Equipment Under Test:

Product: GrayKey - Digital Forensic Access Unit for Mobile Devices
Model: GK01
Serial No.: None Specified
FCC ID: **2AV7EGK01**

4.2 Trade Name:

Grayshift LLC

4.3 Power Supply:

120VAC

4.4 Applicable Rules:

- KDB447498

4.5 Equipment Category:

Radio Transmitter-DTS

4.6 Antenna:

Integral, 1.97dBi Gain

4.7 Accessories:

N/A

4.8 Test Item Condition:

The equipment to be tested was received in good condition.



Order Nos.: F2P19714A, F2P19714A-C1

Client: Grayshift LLC

Model: GK01

5. RF EXPOSURE FOR DEVICE >20cm FROM HUMAN

5.1 Requirements: **Distance used is 20cm**

Limit: **1mW/cm²**

Formula used for result:
$$\frac{\text{E.I.R.P.}}{4 \pi R^2}$$

Results: **E.I.R.P. = 415.0mW**

415.0mW at the 802.11g OFDM 2412 MHz Low Channel, which is the highest.

$$\frac{415.0\text{mW}}{4 \pi R^2} = \frac{415.0\text{mW}}{5026.55} = 0.0826\text{mW/cm}^2$$