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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:

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Report Reviewed by:

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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



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



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.



5. RF EXPOSURE FOR DEVICE >20cm FROM HUMAN

5.1 Requirements: Distance used is 20cm

Limit: 1mW/cm²

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

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

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

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