Test Results for Mobile Device Acquisition Tool:
Cellebrite Inspector v10.7

Contents

Introduction

The Computer Forensics Tool Testing (CFTT) program is a joint project of the Department of Homeland Security (DHS), the National Institute of Justice (NIJ), and the National Institute of Standards and Technology Special Program Office (SPO) and Information Technology Laboratory (ITL). CFTT is supported by other organizations, including the Federal Bureau of Investigation, the U.S. Department of Defense Cyber Crime Center, U.S. Internal Revenue Service Criminal Investigation Division Electronic Crimes Program, and the U.S. Department of Homeland Security's Bureau of Immigration and Customs Enforcement, U.S. Customs and Border Protection and U.S. Secret Service. The objective of the CFTT program is to provide measurable assurance to practitioners, researchers, and other applicable users that the tools used in computer forensics investigations provide accurate results. Accomplishing this requires the development of specifications and test methods for computer forensics tools and subsequent testing of specific tools against those specifications.

Test results provide the information necessary for developers to improve tools, users to make informed choices, and the legal community and others to understand the tools' capabilities. The CFTT approach to testing computer forensics tools is based on well-recognized methodologies for conformance and quality testing. Interested parties in the computer forensics community can review and comment on the specifications and test methods posted on the CFTT Web site (http://www.cftt.nist.gov/).

This document reports the results from testing Cellebrite Inspector v10.7 across supported mobile devices.

Test results from other tools can be found on the DHS S&T-sponsored digital forensics web page, http://www.dhs.gov/science-and-technology/nist-cftt-reports.

How to Read This Report

This report is divided into four sections. Section 1 identifies and provides a summary of any significant anomalies observed in the test runs. This section is sufficient for most readers to assess the suitability of the tool for the intended use. Section 2 identifies the mobile devices used for testing. Section 3 lists testing environment, the internal memory data objects used to populate the mobile devices. Section 4 provides an overview of the test case results reported by the tool.

Test Results for Mobile Device Acquisition Tool

Tool Tested: Inspector

Software Version: v10.7

Supplier: Cellebrite, Inc.

Address: 7 Campus Drive, Suite 210, Parsippany, NJ 07054

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1   Results Summary

Cellebrite Inspector v10.7 was tested for its ability to acquire active data from the internal memory of supported mobile devices. Cellebrite Inspector v10.7 is limited in the data types it can extract from various mobile devices. If a specific data type is not supported by Cellebrite Inspector, PA data extraction is suggested.

The data reported for the devices below varies based upon the data extraction technique supported. For instance, a physical and/or file system extraction will provide the user with more data than a logical extraction. Each supported data extraction technique was performed. Except for the following anomalies, the tool acquired all supported data objects completely and accurately for all mobile devices tested.

Subscriber related data:
> Subscriber information (IMEI) is not reported. (Devices: *One Plus 10 Pro, One Plus 9, Google Pixel 6 Pro, Google Pixel 6*)

Personal Information Management (PIM) data:
- Contact / Address book entries are not reported. (Devices: *One Plus 10 Pro, One Plus 9, Google Pixel 6 Pro, Google Pixel 6*)
- Calendar entries are not reported. (Devices: *One Plus 10 Pro, One Plus 9, Google Pixel 6 Pro, Google Pixel 6, Google Pixel 4, Galaxy Note 10, Galaxy S10, Huawei P20 Pro, Galaxy S9, Galaxy Note 8*)

Call log data:
> Call log (incoming, outgoing, missed) data is not reported. (Device: *iPhone 11*)

For more test result details see section 4.

2 Mobile Devices

The following table lists the mobile devices used for testing Cellebrite Inspector v10.7.

Make	Model Name	OS	Extraction Type	Model #	Network
Apple iPhone	13 Pro Max	iOS 15.6	Advanced Logical	MNCP34LL/A	CDMA
Apple iPhone	13 Pro	iOS 15.6	Advanced Logical	MNDT3LL/A	CDMA
Apple iPhone	13	iOS 15.6	Advanced Logical	MNGD3LL/A	CDMA
Apple iPhone	13 mini	iOS 15.6	Advanced Logical	MNF83LL/A	CDMA
Apple iPhone	11	iOS 15.1	Advanced Logical	MWL72LL/A	CDMA
Apple iPhone	XR	iOS 15.1	Advanced Logical	NQCK2LL/A	CDMA
Apple iPhone	SE	iOS 15.1	Advanced Logical	MX9N2LL/A	CDMA
Apple iPhone	X	iOS 11.3.1	Advanced Logical	MQCK2LL/A	CDMA
Apple iPad	Pro	iOS 15.6	Advanced Logical	MHQR3LL/A	CDMA
Apple iPhone	8	iOS 11.3.1	Advanced Logical	15E203	CDMA
One Plus	10 Pro	Android 12	Advanced Logical	NE2215	CDMA
One Plus	9	Android 11	Advanced Logical, FFS	LE2115	CDMA
Google Pixel	6 Pro	Android 12	Advanced Logical, FFS	GF5KQ	CDMA
Google Pixel	6	Android 12	Advanced Logical, FFS	GR1YH	CDMA
Google	Pixel 4	Android 10	Advanced Logical, FFS	G0201	CDMA
Samsung	Galaxy Note 10	Android 9	Advanced Logical, FFS	SM-N97OU1	CDMA
Samsung	Galaxy S10	Android 9	Advanced Logical, FFS	SM-G973U1	CDMA
Samsung	Galaxy Note 8	Android 7.1.1	Advanced Logical	NMF26XN950 U1UEU1AQ1f	CDMA
Samsung	Galaxy S9	Android 8.0.0	Advanced Logical	G960U1UEU1 ARB7	CDMA
Huawei	P20 Pro	Android 8.1.0	Advanced Logical	CLTL2981010 6 (C636)	CDMA

Table 1: Mobile Devices

3 Testing Environment

The tests were run in the NIST CFTT lab. This section describes the selected test execution environment, and the data objects populated onto the internal memory of mobile devices.

3.1 Execution Environment

Cellebrite Inspector v10.7 was installed on Windows 10 Pro version 10.0.19042.1586.

3.2 Internal Memory Data Objects

Cellebrite Inspector v10.7 was measured by analyzing acquired data from the internal memory of pre-populated mobile devices. Table 2 defines the data objects and elements used for populating mobile devices provided the mobile device supports the data element.

Data Objects	Data Elements
Address Book Entries	*Regular Length* *Maximum Length* *Special Character* *Blank Name* *Regular Length, email* *Regular Length, graphic* *Regular Length, Address* *Deleted Entry* *Non-Latin Entry* *Contact Groups*
PIM Data: Datebook/Calendar; Memos	*Regular Length* *Maximum Length* *Deleted Entry* *Special Character* *Blank Entry*
Call Logs	*Incoming* *Outgoing* *Missed* *Incoming – Deleted* *Outgoing – Deleted* *Missed - Deleted*
Text Messages	*Incoming SMS – Read* *Incoming SMS – Unread* *Outgoing SMS* *Incoming EMS – Read* *Incoming EMS – Unread* *Outgoing EMS* *Incoming SMS – Deleted* *Outgoing SMS – Deleted* *Incoming EMS – Deleted* *Outgoing EMS – Deleted* *Non-Latin SMS/EMS*
MMS Messages	*Incoming Audio* *Incoming Graphic* *Incoming Video* *Outgoing Audio* *Outgoing Graphic* *Outgoing Video*

Data Objects	Data Elements
Application Data	*Device Specific App Data*
Stand-alone data files	*Audio* *Graphic* *Video* *Audio – Deleted* *Graphic - Deleted* *Video - Deleted*
Internet Data	*Visited Sites* *Bookmarks* *E-mail*
Location Data	*GPS Coordinates* *Geo-tagged Data*
Social Media Data	*Facebook* *Twitter* *LinkedIn* *Instagram* *Pinterest* *SnapChat* *WhatsApp*

Table 2: Internal Memory Data Objects

4   Test Results

This section provides the test cases results reported by the tool. Sections 4.1 – 4.2 identify the mobile device operating system type, media (e.g., Android, iOS) and the make and model of mobile devices used for testing Cellebrite Inspector v10.7.

The *Test Cases* column (internal memory acquisition) in sections 4.1 - 4.2 are comprised of two sub-columns that define a particular test category and individual sub-categories that are verified when acquiring the internal memory for supported mobile devices and UICCs within each test case. Each individual sub-category row results for each mobile device/UICC tested. The results are as follows:

As Expected: the mobile forensic application returned expected test results – the tool acquired and reported data from the mobile device/UICC successfully.

Partial: the mobile forensic application returned some of data from the mobile device/UICC.

Not As Expected: the mobile forensic application failed to return expected test results – the tool did not acquire or report supported data from the mobile device/UICC successfully.

NA: Not Applicable – the tool does not provide support for the acquisition for a particular data element.

4.1 Android Mobile Devices

The internal memory contents for Android devices were acquired and analyzed with Cellebrite Inspector v10.7. All test cases pertaining to the acquisition of supported Android devices were successful with the exception of the following across all Android devices.

- Subscriber information (IMEI) is not reported for the One Plus 10 Pro, One Plus 9, Google Pixel 6 Pro and Google Pixel 6.
- Contact / Address book entries are not reported for the One Plus 10 Pro, One Plus 9, Google Pixel 6 Pro and Google Pixel 6.
- Calendar entries are not reported for the One Plus 10 Pro, One Plus 9, Google Pixel 6 Pro, Google Pixel 6, Google Pixel 4, Galaxy Note 10, Galaxy S10, Huawei P20 Pro, Galaxy S9 and Galaxy Note 8.

See Table 3a, 3b below for more details.

Internal Memory Acquisition
Cellebrite Inspector v10.7
Mobile Device Platform: Android

Test Cases:	One Plus 10 Pro	One Plus 9	Google Pixel 6 Pro	Google Pixel 6
Acquisition: Acquire All	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Acquisition: Disrupted	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Reporting: Preview-Pane	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Reporting: Generated Reports	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Equipment/User Data: IMEI/MEID/ESN	*Not As Expected*	*Not As Expected*	*Not As Expected*	*Not As Expected*
PIM Data: Contacts	*Not As Expected*	*Not As Expected*	*Not As Expected*	*Not As Expected*
PIM Data: Calendar	*Not As Expected*	*Not As Expected*	*Not As Expected*	*Not As Expected*
PIM Data: Memos/Notes	*NA*	*NA*	*NA*	*NA*
Call Logs: Incoming	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Call Logs: Outgoing	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Call Logs: Missed	*As Expected*	*As Expected*	*As Expected*	*As Expected*
SMS Messages: Incoming	*As Expected*	*As Expected*	*As Expected*	*As Expected*
SMS Messages: Outgoing	*As Expected*	*As Expected*	*As Expected*	*As Expected*
MMS Messages: Graphic	*As Expected*	*As Expected*	*As Expected*	*As Expected*
MMS Messages: Audio	*As Expected*	*As Expected*	*As Expected*	*As Expected*
MMS Messages: Video	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Stand-alone Files: Graphic	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Stand-alone Files: Audio	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Stand-alone Files: Video	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Application Data: Documents (txt, pdf files)	*As Expected*	*As Expected*	*As Expected*	*As Expected*

Test Cases:	One Plus 10 Pro	One Plus 9	Google Pixel 6 Pro	Google Pixel 6
Social Media Data: Facebook	NA	NA	NA	NA
Social Media Data: Facebook Messenger	NA	NA	NA	NA
Social Media Data: Twitter	NA	NA	NA	NA
Social Media Data: LinkedIn	NA	NA	NA	NA
Social Media Data: Instagram	NA	NA	NA	NA
Social Media Data: Pinterest	NA	NA	NA	NA
Social Media Data: SnapChat	NA	NA	NA	NA
Social Media Data: WhatsApp	NA	NA	NA	NA
Social Media Data: TikTok	NA	NA	NA	NA
Internet Data: Bookmarks	NA	NA	NA	NA
Internet Data: History	NA	NA	NA	NA
Internet Data: Email	NA	NA	NA	NA
GPS Data: Coordinates/Geo-tagged	NA	NA	NA	NA
Non-Latin Character: Reported in native format	As Expected	As Expected	As Expected	As Expected
Hashing: Case File/ Individual Files	As Expected	As Expected	As Expected	As Expected
Case File Data Protection: Modify Case Data	As Expected	As Expected	As Expected	As Expected
SQLite Data: Report Active Data	As Expected	As Expected	As Expected	As Expected
SQLite Data: Run SQLite Commands	As Expected	As Expected	As Expected	As Expected

Table 3a: Android Devices

Test Cases:	Google Pixel 4	Samsung Galaxy Note 10	Samsung Galaxy S10	Samsung Galaxy Note 8	Samsung Galaxy S9	Huawei P20 Pro
Acquisition: Acquire All	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Acquisition: Disrupted	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Reporting: Preview-Pane	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Reporting: Generated Reports	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Equipment/User Data: IMEI/MEID/ESN	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
PIM Data: Contacts	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
PIM Data: Calendar	*Not As Expected*	*Not As Expected*	*Not As Expected*	*Not As Expected*	*Not As Expected*	*Not As Expected*
PIM Data: Memos/Notes	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Call Logs: Incoming	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Call Logs: Outgoing	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Call Logs: Missed	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
SMS Messages: Incoming	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
SMS Messages: Outgoing	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
MMS Messages: Graphic	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
MMS Messages: Audio	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
MMS Messages: Video	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Stand-alone Files: Graphic	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Stand-alone Files: Audio	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Stand-alone Files: Video	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Application Data: Documents (txt, pdf files)	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*

Test Cases:	Google Pixel 4	Samsung Galaxy Note 10	Samsung Galaxy S10	Samsung Galaxy Note 8	Samsung Galaxy S9	Huawei P20 Pro
Social Media Data: Facebook	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Social Media Data: Facebook Messenger	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Social Media Data: Twitter	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Social Media Data: LinkedIn	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Social Media Data: Instagram	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Social Media Data: Pinterest	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Social Media Data: SnapChat	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Social Media Data: WhatsApp	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Social Media Data: TikTok	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Internet Data: Bookmarks	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Internet Data: History	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Internet Data: Email	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GPS Data: Coordinates/Geo-tagged	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Non-Latin Character: Reported in native format	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Hashing: Case File/ Individual Files	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Case File Data Protection: Modify Case Data	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
SQLite Data: Report Active Data	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
SQLite Data: Run SQLite Commands	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*

Table 3b: Android Devices

4.2 iOS Mobile Devices

The internal memory contents for iOS devices were acquired and analyzed with Cellebrite Inspector v10.7.

All test cases pertaining to the acquisition of supported Android devices were successful with the exception of the following across all iOS devices.

Call logs (incoming, outgoing, missed) data was not reported for the iPhone 11.

See Table 4 below for more details.

Internal Memory Acquisition
Cellebrite Inspector v10.7
Mobile Device Platform: iOS

Test Cases:	iPhone 13 Pro Max	iPhone 13 Pro	iPhone 13	iPhone 13 mini	iPhone 11	iPhone XR
Acquisition: Acquire All	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Acquisition: Disrupted	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Reporting: Preview-Pane	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Reporting: Generated Reports	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Equipment/User Data: IMEI/MEID/ESN	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
PIM Data: Contacts	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
PIM Data: Calendar	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
PIM Data: Memos/Notes	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Call Logs: Incoming	*NA*	*NA*	*NA*	*NA*	*Not As Expected*	*NA*
Call Logs: Outgoing	*NA*	*NA*	*NA*	*NA*	*Not As Expected*	*NA*
Call Logs: Missed	*NA*	*NA*	*NA*	*NA*	*Not As Expected*	*NA*
SMS Messages: Incoming	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
SMS Messages: Outgoing	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
MMS Messages: Graphic	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
MMS Messages: Audio	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
MMS Messages: Video	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Stand-alone Files: Graphic	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Stand-alone Files: Audio	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Stand-alone Files: Video	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Application Data: Documents (txt, pdf files)	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*

Test Cases:	iPhone 13 Pro Max	iPhone 13 Pro	iPhone 13	iPhone 13 mini	iPhone 11	iPhone XR
Social Media Data: Facebook	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Social Media Data: Facebook Messenger	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Social Media Data: Twitter	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Social Media Data: LinkedIn	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Social Media Data: Instagram	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Social Media Data: Pinterest	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Social Media Data: SnapChat	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Social Media Data: WhatsApp	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Social Media Data: TikTok	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Internet Data: Bookmarks	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Internet Data: History	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Internet Data: Email	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
GPS Data: Coordinates/Geo-tagged	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Non-Latin Character: Reported in native format	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Hashing: Case File/ Individual Files	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Case File Data Protection: Modify Case Data	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
SQLite Data: Report Active Data	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Run SQLite Data: Run SQLite Commands	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*	*As Expected*

Table 4: iOS Devices

Internal Memory Acquisition
Cellebrite Inspector v10.7
Mobile Device Platform: iOS

Test Cases:	iPhone SE	iPhone X	iPad Pro	iPhone 8
Acquisition: Acquire All	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Acquisition: Disrupted	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Reporting: Preview-Pane	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Reporting: Generated Reports	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Equipment/User Data: IMEI/MEID/ESN	*As Expected*	*As Expected*	*As Expected*	*As Expected*
PIM Data: Contacts	*As Expected*	*As Expected*	*As Expected*	*As Expected*
PIM Data: Calendar	*As Expected*	*As Expected*	*As Expected*	*As Expected*
PIM Data: Memos/Notes	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Call Logs: Incoming	*NA*	*NA*	*NA*	*As Expected*
Call Logs: Outgoing	*NA*	*NA*	*NA*	*As Expected*
Call Logs: Missed	*NA*	*NA*	*NA*	*As Expected*
SMS Messages: Incoming	*As Expected*	*As Expected*	*As Expected*	*As Expected*
SMS Messages: Outgoing	*As Expected*	*As Expected*	*As Expected*	*As Expected*
MMS Messages: Graphic	*As Expected*	*As Expected*	*As Expected*	*As Expected*
MMS Messages: Audio	*As Expected*	*As Expected*	*As Expected*	*As Expected*
MMS Messages: Video	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Stand-alone Files: Graphic	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Stand-alone Files: Audio	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Stand-alone Files: Video	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Application Data: Documents (txt, pdf files)	*As Expected*	*As Expected*	*As Expected*	*As Expected*

Test Cases:	iPhone SE	iPhone X	iPad Pro	iPhone 8
Social Media Data: Facebook	*NA*	*NA*	*NA*	*NA*
Social Media Data: Facebook Messenger	*NA*	*NA*	*NA*	*NA*
Social Media Data: Twitter	*NA*	*NA*	*NA*	*NA*
Social Media Data: LinkedIn	*NA*	*NA*	*NA*	*NA*
Social Media Data: Instagram	*NA*	*NA*	*NA*	*NA*
Social Media Data: Pinterest	*NA*	*NA*	*NA*	*NA*
Social Media Data: SnapChat	*NA*	*NA*	*NA*	*NA*
Social Media Data: WhatsApp	*As Expected*	*As Expected*	*NA*	*As Expected*
Social Media Data: TikTok	*NA*	*NA*	*NA*	*NA*
Internet Data: Bookmarks	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Internet Data: History	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Internet Data: Email	*NA*	*NA*	*NA*	*NA*
GPS Data: Coordinates/Geo-tagged	*NA*	*NA*	*NA*	*NA*
Non-Latin Character: Reported in native format	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Hashing: Case File/ Individual Files	*As Expected*	*As Expected*	*As Expected*	*As Expected*
Case File Data Protection: Modify Case Data	*As Expected*	*As Expected*	*As Expected*	*As Expected*
SQLite Data: Report Active Data	*As Expected*	*As Expected*	*As Expected*	*As Expected*
SQLite Data: Run SQLite Commands	*As Expected*	*As Expected*	*As Expected*	*As Expected*