

NATIONAL TRANSPORTATION SAFETY BOARD
Vehicle Recorder Division
Washington, D.C. 20594

April 6, 2022

Personal Electronic Devices

Specialist's Factual Report By Nick Swann

1. EVENT SUMMARY

Location: Palestine, TX
Date: March 6, 2021
Aircraft: Beech 35
Registration: N3394V
Operator: Private
NTSB Number: CEN21LA151

2. GROUP

A group was not convened.

3. DETAILS OF INVESTIGATION

The National Transportation Safety Board (NTSB) Vehicle Recorder Division received the following devices:

Device Manufacturer/Model: **Samsung Galaxy A11**
IMEI: **356327111805658**

Device Manufacturer/Model: **Samsung Galaxy A10e**
IMEI: **355678115955092**

3.1. Personal Electronic Device (PED) Description

PEDs are a category of devices comprised primarily of portable computing devices and mobile phones. Portable computing devices are typically capable of internet access, email, messaging services, and can run user-installed applications to perform specific tasks. PED user and system data is typically stored on non-volatile memory and can be accessed through manufacturer-provided interfaces.

3.2. Device Condition

Upon arrival at the Vehicle Recorder Laboratory, an examination revealed the Samsung Galaxy A11 had sustained minor impact damage as shown in figure 1.



Figure 1. Photo of Samsung Galaxy A11.

Figure 2 shows the damage to the Samsung Galaxy A10e. This PED suffered impact damage to the left side of the screen that was later discovered to have impaired the functioning of the display and digitizer.

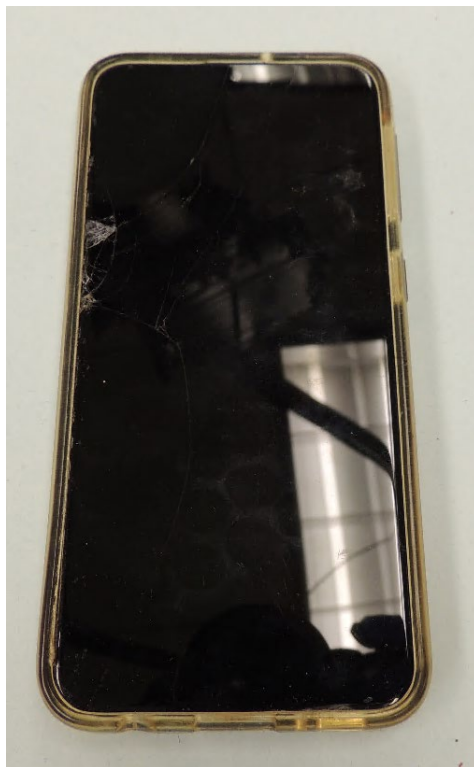


Figure 2. Photo of damaged Samsung Galaxy A10e.

3.3. Data Recovery

Upon arrival at the Vehicle Recorder Laboratory, both phones were able to be powered on and the phone with a passcode was unlocked using information provided by the Investigator in Charge (IIC). Forensic images of both devices were created for examination using laboratory tools.

3.4. Data Description

According to the Investigator in Charge, the phones were collected on scene and viewed. Therefore, the most recently used applications are not necessarily representative of what the users of each phone most recently used. Additionally, the read status of text messages is not necessarily indicative of if the owner of the phone was the user to have opened the messages. Other content from the phone was reviewed, and content determined to be pertinent to the investigation is included in this report.

3.5. Summary of Contents

Time stamps on both mobile devices were provided by the network the device was connected to and were downloaded as Coordinated Universal Time (UTC). The difference between UTC and CST is 6 hours and that offset has been applied to the times in this report. All times in this report appear as CST and are in the 24-hour format.

3.5.1. Summary of Contents in Galaxy A11

According to the data extracted from the GPS72 (see Global Positioning System Specialist's Factual Report) the accident flight was on March 6, 2021, from approximately 1020 to 1220.

- The last outgoing text message was on March 6, 2021, at 12:06:21.
- The last outgoing phone call was on March 6, 2021, at 12:09:20 with a duration of 2 minutes and 27 seconds.

The following tables include text messages and calls between the Samsung Galaxy A11 and the same contact, referred to as **Contact 1**.

Table 1. Phone Calls between Samsung Galaxy A11 and Contact 1.

Contact	Date/Time	Direction	Call Duration (h:mm:ss) ¹
Contact 1	03/06/2021 12:09:20	Outgoing	0:02:27
Contact 1	03/06/2021 12:08:16	Outgoing	0:00:32

¹ Call duration is in the format (h:mm:ss) where h is hours, mm is minutes, and ss is seconds.

Table 2. Text Messages between Samsung Galaxy A11 and Contact 1.

Contact	Date/Time	Status	Direction	Message Content
Contact 1	03/06/2021 12:09:34	Read	Incoming	Everything ok
Contact 1	03/06/2021 12:13:37	Read	Incoming	Point it front for six
Contact 1	03/06/2021 12:14:11	Read	Incoming	Point it right for right tank
Contact 1	03/06/2021 12:14:36	Read	Incoming	Off is back

The following tables include text messages and calls between the Samsung Galaxy A11 and the same contact, referred to as **Contact 2**.

Table 3. Phone calls between Samsung Galaxy A11 and Contact 2.

Contact	Date/Time	Direction	Call Duration (h:mm:ss)
Contact 2	03/06/2021 12:06:03	Outgoing	0:00:45

Table 4. Text Messages between Samsung Galaxy A11 and Contact 2.

Contact	Date/Time	Status	Direction	Message Content
Contact 2	03/06/2021 12:03:34	Sent	Outgoing	In which position is auxiliary. White tap ["tab" sic] front or rear ?

3.5.2. Summary of Contents in Galaxy A10e

- The last outgoing text message was on March 6, 2021, at 07:28:50.
- The last outgoing phone call was on March 6, 2021, at 06:29:49 with a duration of 9 seconds.

The accident occurred at approximately 12:16:34. No other information found on this PED was determined to be of importance to the investigation.