

NATIONAL TRANSPORTATION SAFETY BOARD

Vehicle Recorder Division
Washington, D.C. 20594

August 26, 2020

Personal Electronic Devices

Specialist's Factual Report
By W. Deven Chen

1. EVENT SUMMARY

Location: Mechanicsburg, Pennsylvania
Date: January 9, 2020
Aircraft: Robinson R66
Registration: N450MC
Operator: Private
NTSB Number: ERA20FA074

On January 9, 2020, about 2029 eastern standard time, a Robinson R66, N450MC, experienced an in-flight break-up near Mechanicsburg, Pennsylvania. The private pilot and one passenger were fatally injured and the helicopter was destroyed. The helicopter was operated under the provisions of title 14 *Code of Federal Regulations Part 91* personal flight. Night visual meteorological conditions prevailed at the time and no flight plan was filed for the flight. The flight originated about 1958 from Martin State Airport (MTN), Baltimore, Maryland, and was destined for Buffalo Niagara International Airport (BUF), Buffalo, New York.

2. GROUP

A group was not convened.

3. DETAILS OF INVESTIGATION

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

Device Manufacturer/Model:	Apple iPhone 11 Pro Max (pilot)
IMEI Number:	353894104832570
Device Manufacturer/Model:	Apple iPhone 11 Pro Max (passenger)
IMEI Number:	353906101577790

3.1. Device Description

PED is 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.

Depending on the model, mobile phones can perform many of the same tasks as portable computing devices, plus have voice call and text messaging capabilities. PED user and system data is typically stored on non-volatile memory¹ (NVM) and can be accessed through manufacturer-provided interfaces.

3.2. Data Recovery

3.2.1 Apple iPhone 11 Pro Max (pilot)

Upon arrival at the Vehicle Recorder Division, an exterior examination revealed the device had no damage, as shown in Figure 1. The device powered up normally and was unlocked with a provided passcode. The device was connected to a PC and read using forensic evidence recovery software for PEDs.



Figure 1: Front and back of Apple iPhone 11 Pro Max (pilot) as received.

3.2.1.1. Usage History

The data were examined for indications of usage between January 6, 2020 and January 9, 2020 (the accident date). All the timestamps in this report are in eastern standard time (EST). Figure 2 is a bar graph summary of the PED usage history of the pilot between January 6 and January 9, 2020, based on the phone call activity and text message activity which included short message service (SMS), multimedia message service (MMS) and chats. The details of the phone call and text message activities are included in the Appendix A-D.

¹ Non-volatile memory is semiconductor memory that does not require external power for data retention.

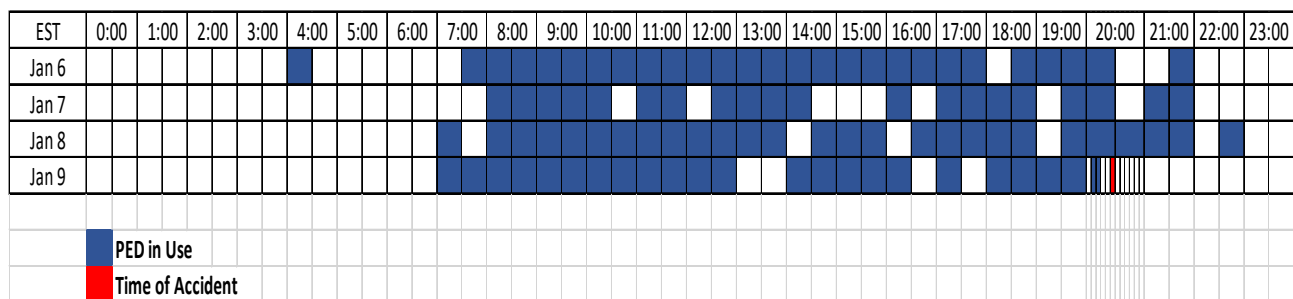


Figure 2: Pilot's PED usage history in January 6-9.

3.2.1.2. Text message with the passenger

Table 1 shows a text message exchange between the pilot and passenger on January 8 and January 9, 2020. Spelling and grammar have not been corrected.

Table 1: Text message between the pilot and passenger in January 8-9.

1/8/2020 19:34:03	Passenger	Any plan for tomorrow
19:34:30	Pilot	I'll check. I got stuck in bad weather today in the cooter.
19:34:43	Pilot	Copter.
19:34:52	Pilot	Finally made it home at sunset.
21:09:31	Pilot	Do you still want to go tomorrow morning? It will not be very warm outside but clear skies and nice Enrique weather. Let me know.
21:10:49	Passenger	What time we leaving
21:12:21	Pilot	If we go, we need to fly to Perry-Warsaw and grab the Cessana. The Cirrus is getting serviced. Your call.
21:20:47	Passenger	Lets go another day so we don't have to go the Perry. Kind of a wast of time. Not to mention the cold.
21:21:30	Pilot	Maybe next week sometime?
21:21:39	Pilot	It's supposed to get warmer again?
21:21:44	Passenger	OK
21:22:14	Pilot	I'll email them and let them know we are not coming tomorrow then. Now I have to go to work for a change.
21:22:23	Passenger	Lol
1/9/2020 7:23:04	Pilot	Wanna still go? We will take the helicopter so we won't have to stop in Perry. We can leave directly from Buffalo. Leave at 9:00am. Wake up and let me know!!
7:57:43	Pilot	Call me back:
9:00:31	Pilot	Are you alive?
14:59:03	Pilot	[an image of a joke unrelated to the accident flight]

3.2.1.3. Background Running Applications

The device showed some applications were running in the background before the accident, including Garmin Pilot, Weather, and NavMonster. The forensic evidence recovery software could not decode those applications; thus the contents of those applications were not available.

3.2.2 Apple iPhone 11 Pro Max (passenger)

Upon arrival at the Vehicle Recorder Division, an exterior examination revealed the device had no damage, as shown in Figure 3. The device powered up normally and was unlocked with provided passcode. The device was connected to a PC and read using forensic evidence recovery software for PEDs. With the exception of the text message exchange with the pilot detailed in section 3.2.1.2, no data pertinent to this accident was found.



Figure 3: Front and back of Apple iPhone 11 Pro Max (passenger) as received.

APPENDIX A: Phone Call Activity

This appendix describes the pilot's phone call activities between 1/6/2020 to 1/9/2020.

DATE TIME (EST)	DURATION (mm:ss)	DIRECTION	NOTE
1/9/2020 22:48:52	0:00	Incoming	Not answered
22:07:07	0:00	Incoming	Not answered
20:08:18	2:53	Incoming	Answered
19:08:54	0:00	Outgoing	Not answered
18:33:48	1:05	Incoming	Answered
18:31:51	0:00	Incoming	Not answered
17:33:43	0:00	Incoming	Not answered
17:04:35	0:14	Incoming	Answered
16:16:01	5:22	Outgoing	Answered
16:06:48	4:52	Incoming	Answered
15:53:32	0:43	Incoming	Answered
15:26:59	0:08	Incoming	Answered
15:11:58	0:56	Outgoing	Answered
15:09:41	0:00	Incoming	Not answered
14:50:56	0:00	Incoming	Not answered
12:47:15	1:13	Outgoing	Answered
12:39:13	2:40	Outgoing	Answered
12:38:34	0:00	Outgoing	Not answered
12:37:30	0:00	Outgoing	Not answered
12:35:38	2:01	Outgoing	Answered
12:34:39	0:00	Outgoing	Not answered
12:34:27	0:00	Outgoing	Not answered
12:24:56	0:09	Incoming	Answered
12:14:17	0:19	Incoming	Answered
11:52:00	1:35	Incoming	Answered
11:24:38	0:00	Incoming	Not answered
11:13:40	0:23	Outgoing	Answered
10:48:41	14:15	Incoming	Answered
10:35:44	1:02	Outgoing	Answered
10:30:30	0:00	Incoming	Not answered
10:19:00	16:23	Outgoing	Answered
10:15:18	0:33	Outgoing	Answered
9:54:48	16:08	Incoming	Answered
9:24:53	0:08	Outgoing	Answered
9:24:12	0:23	Outgoing	Answered
9:24:00	0:00	Outgoing	Not answered
9:01:08	4:57	Incoming	Answered
8:57:35	2:42	Incoming	Answered
8:57:35	0:02	Outgoing	Answered
7:52:09	0:35	Outgoing	Answered

DATE TIME (EST)	DURATION (mm:ss)	DIRECTION	NOTE
1/8/2020 21:31:30	67:54	Outgoing	Answered
21:11:30	0:00	Outgoing	Not answered
18:31:58	0:17	Incoming	Answered
18:07:56	21:30	Incoming	Answered
18:06:11	0:39	Outgoing	Answered
17:39:34	3:55	Incoming	Answered
17:06:49	0:37	Incoming	Answered
15:36:58	7:51	Outgoing	Answered
15:36:35	0:09	Outgoing	Answered
15:25:37	1:54	Incoming	Answered
15:03:08	0:00	Incoming	Not answered
14:30:43	0:23	Incoming	Answered
14:30:10	0:13	Incoming	Answered
14:28:14	0:00	Incoming	Not answered
13:07:06	5:55	Outgoing	Answered
12:58:31	7:26	Incoming	Answered
12:56:33	0:06	Incoming	Answered
12:41:41	0:05	Incoming	Answered
11:52:16	0:00	Incoming	Not answered
11:41:59	1:11	Incoming	Answered
11:29:18	0:00	Incoming	Not answered
11:19:21	0:05	Outgoing	Answered
11:17:33	1:37	Outgoing	Answered
11:06:59	6:13	Incoming	Answered
10:35:23	18:45	Incoming	Answered
10:34:50	0:31	Outgoing	Answered
10:33:39	0:00	Incoming	Not answered
10:28:40	5:23	Incoming	Answered
9:23:53	7:15	Outgoing	Answered
8:14:10	6:53	Incoming	Answered
1/7/2020 20:04:54	20:27	Outgoing	Answered
19:35:01	3:39	Incoming	Answered
17:41:40	4:09	Incoming	Answered
17:41:23	0:17	Outgoing	Answered
17:16:59	0:00	Incoming	Not answered
16:42:31	0:00	Incoming	Not answered
14:00:03	0:37	Outgoing	Answered
13:46:52	0:05	Outgoing	Answered
13:46:02	0:16	Incoming	Answered
13:45:50	0:10	Incoming	Answered
13:44:50	0:00	Incoming	Not answered
13:35:25	10:26	Incoming	Answered
13:24:32	3:00	Outgoing	Answered
13:22:20	1:33	Outgoing	Answered

DATE TIME (EST)	DURATION (mm:ss)	DIRECTION	NOTE
13:11:14	9:07	Incoming	Answered
12:39:21	0:26	Outgoing	Answered
12:38:53	0:05	Outgoing	Answered
11:58:57	3:33	Incoming	Answered
11:31:00	1:39	Incoming	Answered
11:22:36	4:06	Incoming	Answered
11:02:04	6:56	Outgoing	Answered
11:01:49	0:00	Outgoing	Not answered
9:41:34	7:21	Outgoing	Answered
9:41:09	0:00	Outgoing	Not answered
9:31:23	6:37	Outgoing	Answered
8:44:33	6:55	Incoming	Answered
8:09:21	0:32	Outgoing	Answered
1/6/2020 19:48:43	6:58	Outgoing	Answered
19:22:30	9:31	Outgoing	Answered
19:04:30	0:00	Incoming	Not answered
18:58:45	23:31	Outgoing	Answered
18:58:00	0:02	Outgoing	Answered
18:45:20	0:00	Incoming	Not answered
18:08:50	0:00	Incoming	Not answered
18:01:28	0:00	Incoming	Not answered
17:47:32	68:50	Incoming	Answered
17:19:20	7:53	Incoming	Answered
17:14:09	0:06	Outgoing	Answered
17:03:50	9:33	Outgoing	Answered
15:44:44	30:32	Incoming	Answered
15:13:50	12:51	Outgoing	Answered
15:04:38	4:05	Outgoing	Answered
14:41:03	4:23	Incoming	Answered
14:33:59	0:36	Outgoing	Answered
13:32:22	0:00	Incoming	Not answered
13:19:21	18:22	Outgoing	Answered
13:07:31	0:17	Incoming	Answered
13:05:25	5:00	Outgoing	Answered
12:58:39	0:04	Incoming	Answered
12:38:56	5:20	Incoming	Answered
12:21:20	0:00	Incoming	Not answered
12:08:42	21:33	Outgoing	Answered
12:02:53	2:51	Incoming	Answered
11:49:30	7:48	Incoming	Answered
11:47:23	2:18	Outgoing	Answered
11:41:47	0:23	Outgoing	Answered
11:17:30	1:58	Incoming	Answered
11:13:11	6:14	Outgoing	Answered

DATE TIME (EST)	DURATION (mm:ss)	DIRECTION	NOTE
10:58:29	13:10	Outgoing	Answered
10:56:17	0:42	Outgoing	Answered
10:52:36	1:40	Incoming	Answered
10:33:50	2:54	Outgoing	Answered
10:17:50	0:29	Outgoing	Answered
10:14:48	0:23	Incoming	Answered
10:09:41	0:55	Outgoing	Answered
10:05:59	0:00	Incoming	Not answered
10:02:29	3:27	Outgoing	Answered
9:24:17	0:00	Incoming	Not answered
8:54:04	6:42	Outgoing	Answered
8:47:33	6:04	Outgoing	Answered
8:44:35	0:00	Incoming	Not answered
8:43:27	3:54	Outgoing	Answered
8:41:40	0:16	Outgoing	Answered
8:19:23	0:28	Outgoing	Answered
8:06:34	0:26	Outgoing	Answered
8:01:50	2:07	Outgoing	Answered
7:44:19	4:10	Outgoing	Answered
7:42:18	1:11	Outgoing	Answered
7:38:56	0:59	Outgoing	Answered

APPENDIX B: SMS Activity

This appendix describes the pilot's short message service (SMS) activities between 1/6/2020 to 1/9/2020.

DATE TIME (EST)	Direction	Status
1/9/2020 22:39:00	Incoming	Unknown
20:13:39	Incoming	Unread
20:10:28	Incoming	Read
20:10:20	Outgoing	Sent
20:10:10	Incoming	Read
19:51:34	Outgoing	Sent
19:43:37	Incoming	Read
19:43:15	Incoming	Read
19:32:27	Outgoing	Sent
19:29:09	Incoming	Read
19:28:24	Outgoing	Sent
19:28:14	Incoming	Read
19:27:11	Outgoing	Sent
19:23:22	Incoming	Read
19:22:54	Outgoing	Sent
19:06:34	Outgoing	Sent
19:05:39	Incoming	Read
19:05:26	Outgoing	Sent
19:05:19	Outgoing	Sent
19:04:42	Outgoing	Sent
18:22:26	Incoming	Read
18:22:04	Outgoing	Sent
18:21:47	Incoming	Read
14:17:51	Outgoing	Sent
14:17:23	Incoming	Read
12:13:40	Outgoing	Sent
12:13:24	Incoming	Read
9:25:52	Outgoing	Sent
9:24:29	Outgoing	Sent
9:24:19	Incoming	Read
9:23:32	Outgoing	Sent
9:21:33	Incoming	Read
9:17:55	Incoming	Read
9:16:22	Outgoing	Sent
9:16:10	Incoming	Read
9:15:45	Incoming	Read
9:14:43	Incoming	Read
9:14:12	Outgoing	Sent
9:11:59	Incoming	Read

DATE TIME (EST)	Direction	Status
9:08:14	Outgoing	Sent
9:06:16	Incoming	Read
8:08:25	Outgoing	Sent
8:07:58	Incoming	Read
8:06:37	Outgoing	Sent
8:04:32	Incoming	Read
1/8/2020 23:02:09	Outgoing	Sent
20:33:59	Outgoing	Sent
20:26:28	Incoming	Read
20:15:30	Outgoing	Sent
18:37:53	Outgoing	Sent
16:58:57	Incoming	Read
16:58:14	Outgoing	Sent
16:57:35	Incoming	Read
16:56:51	Outgoing	Sent
16:56:08	Incoming	Read
16:49:44	Outgoing	Sent
16:35:29	Incoming	Read
16:34:53	Outgoing	Sent
16:34:02	Incoming	Read
16:33:02	Outgoing	Sent
16:31:25	Incoming	Read
15:58:28	Outgoing	Sent
15:58:22	Incoming	Read
15:57:46	Outgoing	Sent
15:57:30	Outgoing	Sent
15:57:27	Incoming	Read
15:56:58	Outgoing	Sent
15:56:39	Incoming	Read
15:56:13	Outgoing	Sent
15:56:05	Outgoing	Sent
15:56:00	Incoming	Read
15:55:56	Outgoing	Sent
15:55:47	Outgoing	Sent
15:55:39	Incoming	Read
15:55:34	Outgoing	Sent
15:55:21	Outgoing	Sent
15:51:04	Incoming	Read
15:50:37	Outgoing	Sent
15:50:06	Incoming	Read
11:16:13	Outgoing	Sent
11:07:44	Incoming	Read
11:04:08	Outgoing	Sent
10:55:00	Incoming	Read

DATE TIME (EST)	Direction	Status
10:28:57	Incoming	Read
10:20:27	Incoming	Read
9:32:02	Outgoing	Sent
9:31:48	Outgoing	Sent
9:31:43	Incoming	Read
9:27:40	Incoming	Read
8:57:54	Outgoing	Sent
8:07:24	Incoming	Read
8:07:19	Incoming	Read
8:06:25	Outgoing	Sent
7:57:11	Incoming	Read
7:55:41	Incoming	Read
7:54:25	Outgoing	Sent
7:54:07	Incoming	Read
7:53:43	Outgoing	Sent
7:53:34	Outgoing	Sent
7:53:13	Incoming	Read
7:52:34	Outgoing	Sent
7:52:32	Incoming	Read
7:51:49	Outgoing	Sent
7:51:40	Incoming	Read
7:51:33	Incoming	Read
7:51:29	Outgoing	Sent
7:50:44	Incoming	Read
7:43:28	Incoming	Read
7:32:02	Outgoing	Sent
1/7/2020 21:14:30	Incoming	Read
18:47:13	Incoming	Read
17:52:43	Incoming	Read
14:29:41	Outgoing	Sent
14:29:13	Outgoing	Sent
10:17:41	Incoming	Read
10:05:31	Incoming	Read
9:50:44	Outgoing	Sent
9:49:47	Incoming	Read
9:30:53	Incoming	Read
9:30:29	Outgoing	Sent
9:21:26	Incoming	Read
9:20:04	Outgoing	Sent
9:19:39	Outgoing	Sent
9:18:32	Incoming	Read
9:17:28	Incoming	Read
9:11:42	Outgoing	Sent
9:11:38	Outgoing	Sent

DATE TIME (EST)	Direction	Status
9:11:03	Incoming	Read
9:10:49	Outgoing	Sent
9:10:28	Incoming	Read
8:17:34	Outgoing	Sent
1/6/2020 19:56:50	Outgoing	Sent
19:56:32	Incoming	Read
16:34:44	Incoming	Read
15:57:56	Incoming	Read
15:52:37	Incoming	Read
15:51:55	Incoming	Read
15:36:09	Outgoing	Sent
15:35:55	Outgoing	Sent
15:30:01	Incoming	Read
15:23:58	Incoming	Read
15:23:22	Incoming	Read
15:22:38	Incoming	Read
15:22:13	Incoming	Read
15:21:29	Incoming	Read
15:21:03	Incoming	Read
15:19:39	Outgoing	Sent
15:19:24	Incoming	Read
15:18:59	Outgoing	Sent
15:18:09	Incoming	Read
15:16:27	Incoming	Read
15:15:44	Incoming	Read
15:15:20	Incoming	Read
15:11:04	Incoming	Read
14:34:44	Outgoing	Sent
14:34:26	Incoming	Read
14:32:25	Outgoing	Sent
14:32:13	Incoming	Read
14:31:37	Outgoing	Sent
14:31:18	Incoming	Read
14:31:13	Incoming	Read
14:29:13	Outgoing	Sent
14:28:48	Incoming	Read
14:13:57	Outgoing	Sent
14:12:57	Outgoing	Sent
13:53:11	Incoming	Read
13:52:34	Outgoing	Sent
13:51:36	Incoming	Read
13:51:04	Outgoing	Sent
12:55:51	Outgoing	Sent
12:55:13	Outgoing	Sent

DATE TIME (EST)	Direction	Status
12:54:47	Incoming	Read
11:46:37	Outgoing	Sent
11:46:17	Incoming	Read
11:35:57	Outgoing	Sent
11:34:32	Incoming	Read
11:34:17	Outgoing	Sent
11:33:18	Incoming	Read
11:30:20	Outgoing	Sent
11:29:53	Incoming	Read
11:29:22	Outgoing	Sent
11:28:52	Incoming	Read
11:28:28	Outgoing	Sent
11:27:22	Incoming	Read
11:26:19	Outgoing	Sent
11:25:11	Incoming	Read
11:24:54	Outgoing	Sent
11:23:43	Incoming	Read
11:11:59	Outgoing	Sent
11:02:49	Incoming	Read
10:56:56	Outgoing	Sent
10:56:49	Incoming	Read
10:55:20	Outgoing	Sent
10:54:38	Outgoing	Sent
10:53:41	Incoming	Read
10:52:25	Outgoing	Sent
10:52:17	Outgoing	Sent
10:52:15	Incoming	Read
10:52:02	Outgoing	Sent
10:51:46	Outgoing	Sent
10:51:30	Incoming	Read
10:51:10	Outgoing	Sent
10:50:40	Outgoing	Sent
10:49:36	Incoming	Read
10:48:59	Outgoing	Sent
10:48:52	Incoming	Read
10:48:44	Outgoing	Sent
10:48:31	Outgoing	Sent
10:48:24	Outgoing	Sent
10:45:57	Incoming	Read
10:45:38	Outgoing	Sent
10:40:21	Incoming	Read
10:16:31	Incoming	Read
10:15:51	Outgoing	Sent
10:15:05	Incoming	Read

DATE TIME (EST)	Direction	Status
10:14:37	Incoming	Read
10:12:28	Outgoing	Sent
10:12:06	Incoming	Read
10:11:03	Outgoing	Sent
10:09:54	Incoming	Read
9:30:10	Outgoing	Sent
9:29:30	Incoming	Read
8:27:11	Outgoing	Sent
4:24:53	Outgoing	Sent

APPENDIX C: MMS Activity

This appendix describes the pilot's multimedia message service (MMS) activities between 1/6/2020 to 1/9/2020.

DATE TIME (EST)	Direction	Status
1/9/2020 20:39:00	Incoming	Unread
19:22:15	Incoming	Read
9:53:53	Outgoing	Sent
9:14:02	Incoming	Read
1/8/2020 17:00:19	Outgoing	Sent
16:54:13	Outgoing	Sent
13:20:25	Outgoing	Unknown
8:05:42	Incoming	Read
1/7/2020 18:24:06	Incoming	Read
17:27:47	Outgoing	Unknown
1/6/2020 21:56:32	Incoming	Read
15:11:43	Outgoing	Sent
12:55:37	Incoming	Read
12:53:43	Outgoing	Unknown
12:53:43	Outgoing	Unknown
12:52:16	Outgoing	Sent
11:22:58	Outgoing	Sent
10:50:08	Incoming	Read

APPENDIX D: Chats Activity

This appendix describes the pilot's chats activities between 1/6/2020 to 1/9/2020.

DATE TIME (EST)	Direction	Status
1/9/2020 14:59:03	Outgoing	Sent
12:12:56	Outgoing	Sent
12:12:01	Incoming	Read
12:11:29	Outgoing	Sent
12:06:45	Incoming	Read
11:13:16	Outgoing	Sent
11:04:37	Incoming	Read
11:03:27	Outgoing	Sent
10:46:06	Incoming	Read
10:35:31	Outgoing	Sent
10:19:52	Incoming	Read
10:17:47	Outgoing	Sent
10:16:12	Incoming	Read
9:30:08	Outgoing	Sent
9:28:36	Incoming	Read
9:00:31	Outgoing	Sent
7:57:43	Outgoing	Sent
7:23:04	Outgoing	Sent
1/8/2020 22:57:55	Incoming	Read
21:22:23	Incoming	Read
21:22:14	Outgoing	Sent
21:21:44	Incoming	Read
21:21:39	Outgoing	Sent
21:21:30	Outgoing	Sent
21:20:47	Incoming	Read
21:12:21	Outgoing	Sent
21:10:49	Incoming	Read
21:09:46	Outgoing	Sent
21:09:32	Incoming	Read
21:09:31	Outgoing	Sent
19:34:52	Outgoing	Sent
19:34:43	Outgoing	Sent
19:34:30	Outgoing	Sent
19:34:03	Incoming	Read
18:05:38	Outgoing	Sent
17:39:29	Incoming	Read
17:38:21	Outgoing	Sent
17:26:10	Incoming	Read
17:23:17	Outgoing	Sent
17:18:25	Incoming	Read

DATE TIME (EST)	Direction	Status
16:55:04	Outgoing	Sent
16:54:33	Incoming	Read
16:53:41	Outgoing	Sent
16:50:21	Incoming	Read
14:49:10	Incoming	Read
14:48:41	Outgoing	Sent
14:46:27	Incoming	Read
14:32:28	Incoming	Read
14:31:38	Outgoing	Sent
13:47:26	Incoming	Read
12:05:08	Outgoing	Sent
12:05:02	Outgoing	Sent
12:04:53	Outgoing	Sent
11:53:55	Incoming	Read
11:18:58	Incoming	Read
11:18:57	Outgoing	Sent
11:18:49	Outgoing	Sent
11:18:39	Outgoing	Sent
11:18:37	Incoming	Read
11:18:24	Incoming	Read
9:04:02	Outgoing	Sent
9:03:07	Incoming	Read
9:00:50	Outgoing	Sent
8:38:47	Incoming	Read
8:24:54	Outgoing	Sent
8:24:30	Outgoing	Sent
8:10:42	Incoming	Read
8:10:33	Incoming	Read
7:14:25	Outgoing	Sent
1/7/2020 21:44:39	Outgoing	Sent
21:44:26	Incoming	Read
21:43:48	Outgoing	Sent
21:43:16	Incoming	Read
21:41:47	Outgoing	Sent
21:41:07	Incoming	Read
21:40:06	Outgoing	Sent
21:39:46	Incoming	Read
21:39:03	Outgoing	Sent
21:37:56	Outgoing	Sent
21:37:55	Incoming	Read
21:37:18	Outgoing	Sent
21:37:03	Incoming	Read
21:35:48	Outgoing	Sent
21:35:31	Incoming	Read

DATE TIME (EST)	Direction	Status
18:46:44	Incoming	Read
18:46:18	Outgoing	Sent
18:45:25	Incoming	Read
18:44:31	Outgoing	Sent
18:34:26	Outgoing	Sent
18:31:21	Incoming	Read
18:04:52	Outgoing	Sent
18:04:41	Incoming	Read
18:04:34	Outgoing	Sent
18:04:16	Outgoing	Sent
18:03:52	Outgoing	Sent
17:58:24	Incoming	Read
16:26:38	Outgoing	Sent
16:26:14	Incoming	Read
13:06:11	Incoming	Read
13:06:00	Outgoing	Sent
13:05:39	Incoming	Read
12:52:42	Outgoing	Sent
12:52:32	Incoming	Read
12:52:07	Outgoing	Sent
11:56:27	Outgoing	Sent
11:56:17	Outgoing	Sent
11:55:57	Incoming	Read
9:04:28	Incoming	Read
9:03:21	Outgoing	Sent
9:03:15	Incoming	Read
9:02:50	Incoming	Read
9:02:17	Incoming	Read
9:01:09	Outgoing	Sent
8:38:57	Outgoing	Sent
8:10:02	Outgoing	Sent
8:02:07	Outgoing	Sent
1/6/2020 20:25:56	Outgoing	Sent
20:25:51	Incoming	Read
20:25:37	Outgoing	Sent
20:25:18	Outgoing	Sent
20:24:56	Incoming	Read
19:59:12	Outgoing	Sent
19:08:39	Incoming	Read
18:58:10	Outgoing	Sent
17:14:19	Outgoing	Sent
17:13:09	Incoming	Read
17:05:12	Outgoing	Sent
17:04:13	Incoming	Read

DATE TIME (EST)	Direction	Status
16:47:27	Outgoing	Sent
16:47:06	Incoming	Read
16:46:21	Outgoing	Sent
16:45:09	Incoming	Read
16:44:07	Outgoing	Sent
16:42:09	Incoming	Read
16:39:41	Outgoing	Sent
16:39:33	Outgoing	Sent
16:25:42	Outgoing	Sent
16:25:29	Outgoing	Sent
15:25:23	Incoming	Read
15:11:09	Incoming	Read
14:59:58	Outgoing	Sent
14:59:07	Incoming	Read
14:48:28	Outgoing	Sent
14:44:31	Incoming	Read
14:43:28	Outgoing	Sent
14:42:18	Incoming	Read
14:40:43	Outgoing	Sent
14:40:11	Outgoing	Sent
14:39:56	Incoming	Read
14:39:21	Incoming	Read
14:39:07	Outgoing	Sent
14:39:00	Outgoing	Sent
14:38:41	Incoming	Read
14:37:06	Outgoing	Sent
14:35:33	Outgoing	Sent
14:10:00	Outgoing	Sent
12:51:28	Outgoing	Sent
11:07:15	Incoming	Read
10:45:52	Outgoing	Sent
10:14:31	Incoming	Read
10:13:18	Outgoing	Sent
9:57:43	Outgoing	Sent
9:57:38	Incoming	Read
9:56:20	Outgoing	Sent
9:55:41	Incoming	Read
9:55:27	Incoming	Read
9:43:33	Outgoing	Sent
9:31:32	Outgoing	Sent
8:12:42	Outgoing	Sent
8:12:37	Outgoing	Sent
7:16:49	Incoming	Read
7:16:16	Outgoing	Sent