

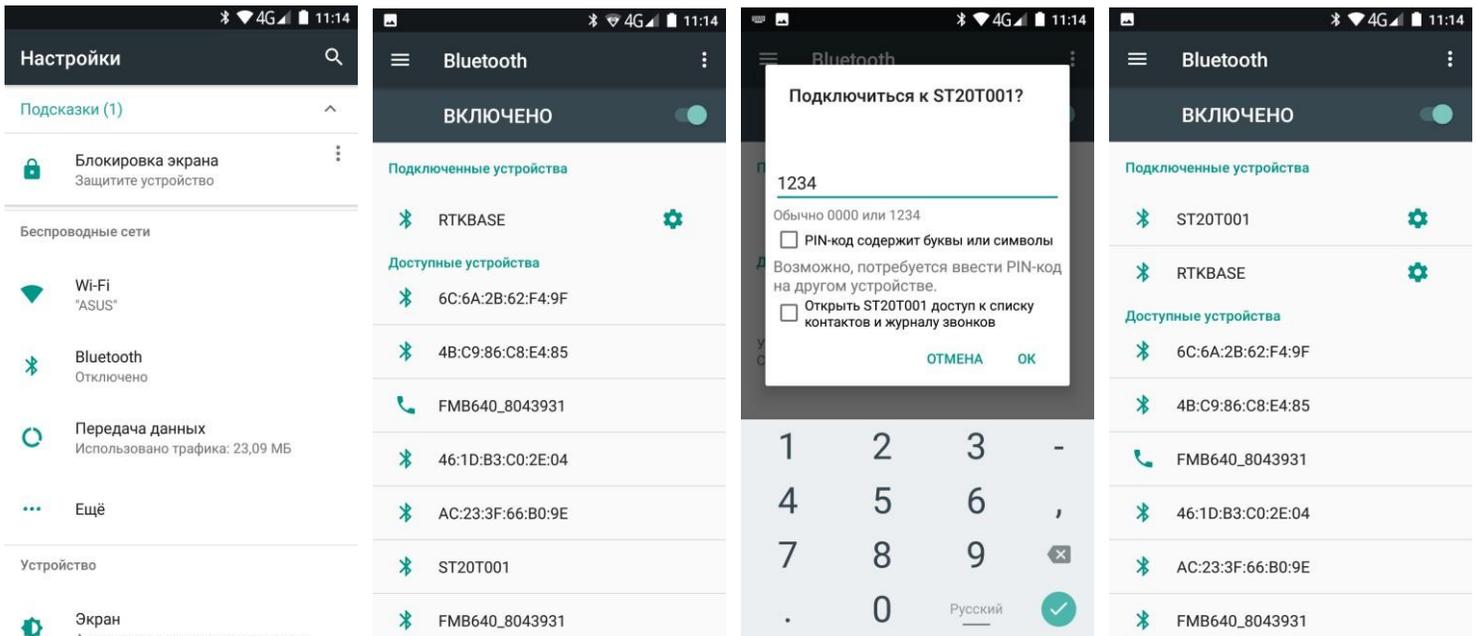
# Brief instructions for working with the application for the Calibration Station (project, program version 1.39)

Communication between the Android device and the calibration station is carried out using a Bluetooth interface.

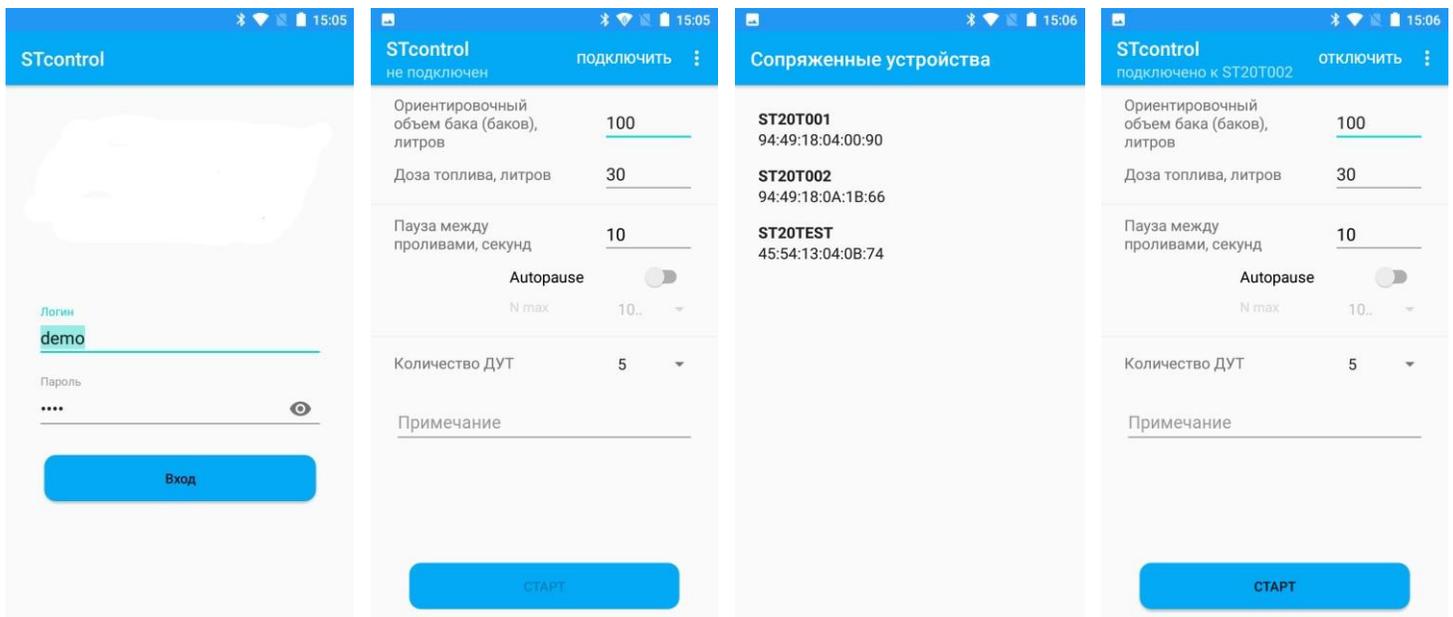
The calibration station must be added to the list of paired Bluetooth devices.

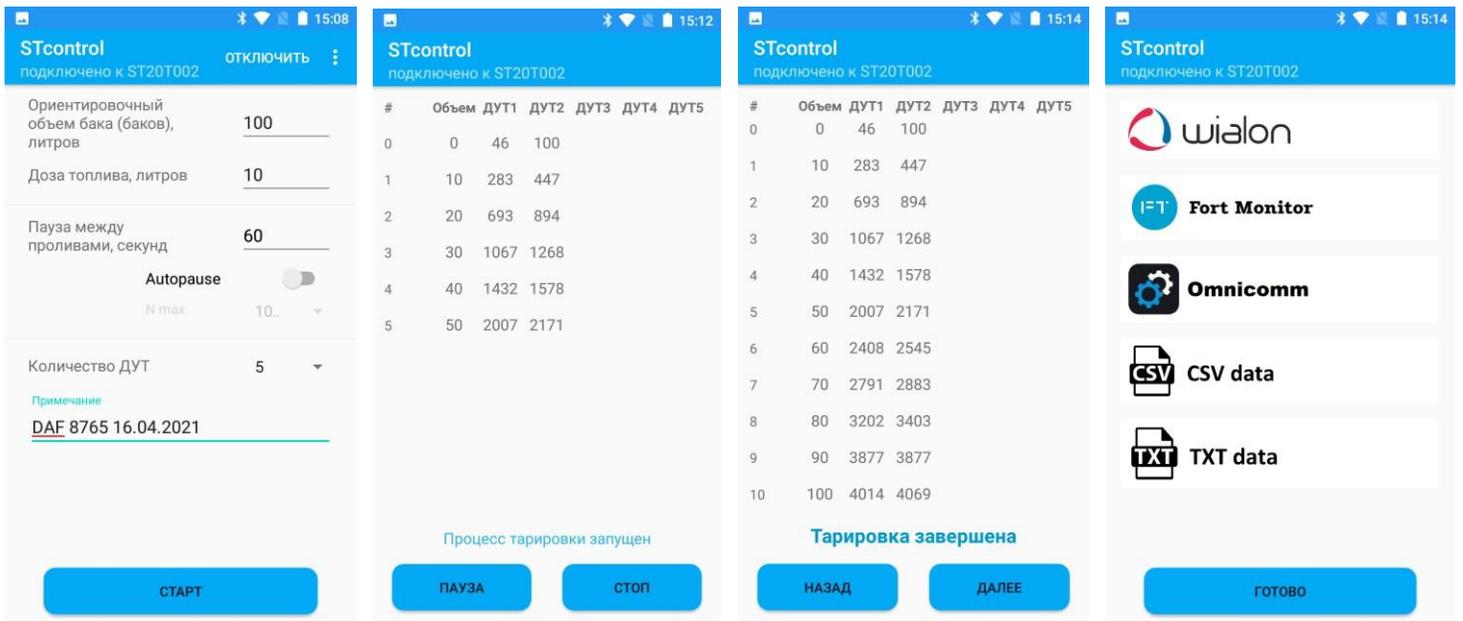
In the Bluetooth settings of the Android operating system, you need to find an available device ST20Txxx and connect. The connection password is 1234.

After connection, the Calibration Station will be in the list of paired devices.



We launch the application and enter the login / password for authorization. After authorization, the calibration process settings window is available.

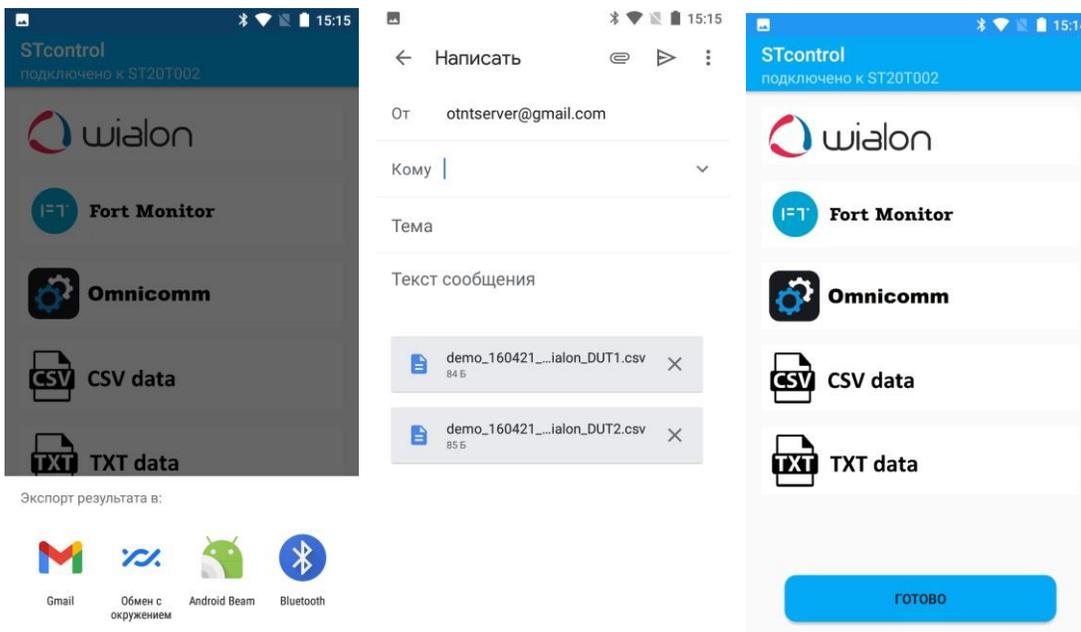




After connecting the calibration station using the "Connect" button and entering the settings, you can start the calibration process. Calibration starts after pressing the "**START**" button. In the program window, you can watch the calibration process. After completing the calibration, by clicking on the "**NEXT**" button, the window for exporting the calibration results will open.

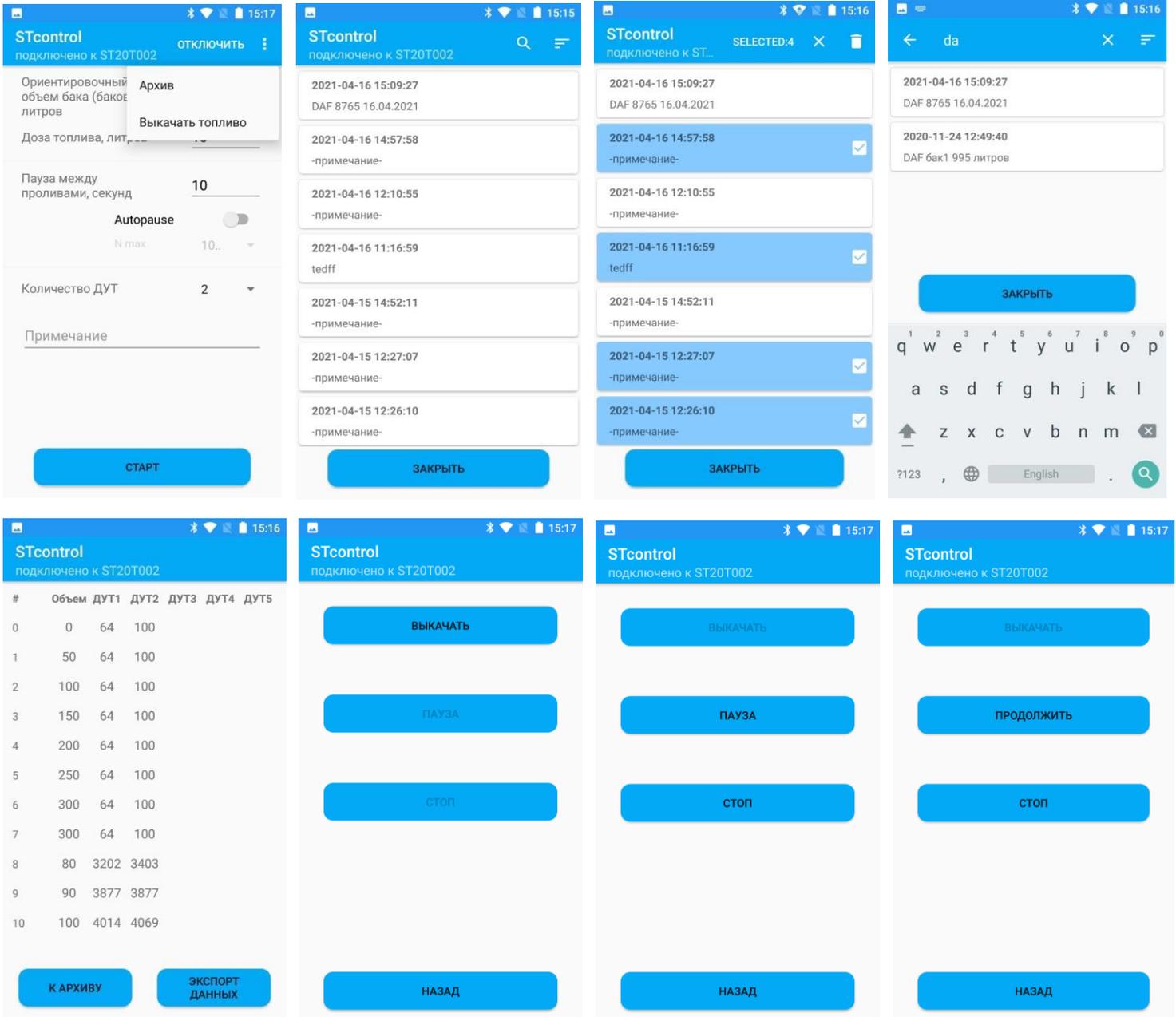
After selecting the data export format, a standard system window will open

"Share" (the view of the window depends on the applications installed in the system) to select the method of transferring the calibration results. For example, the method of sending calibration tables to e-mail has been selected. After sending the letter, the program returns to the export screen.

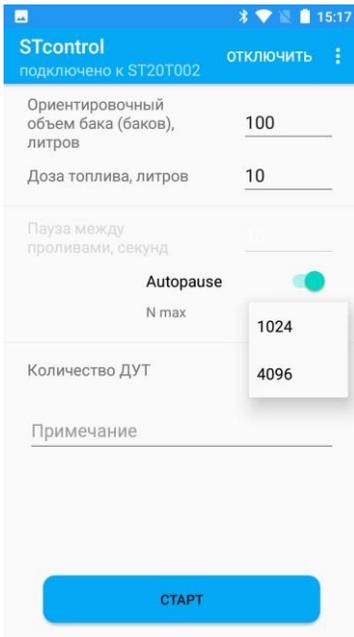


The item **"Archive"** in the program menu allows you to return to the results of previous calibration. Records in the Archive can be selected and deleted. Also, the search function by the "note" field works by records.

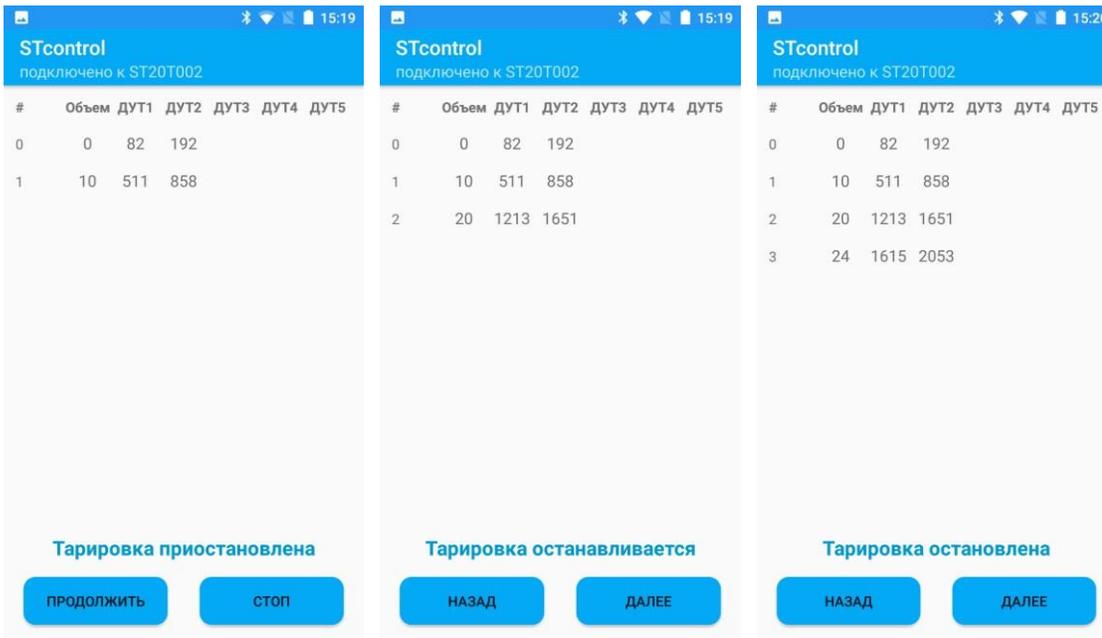
The item **"Pump out fuel"** in the program menu allows you to call the pump control screen of the calibration station for pumping fuel from the vehicle tank.



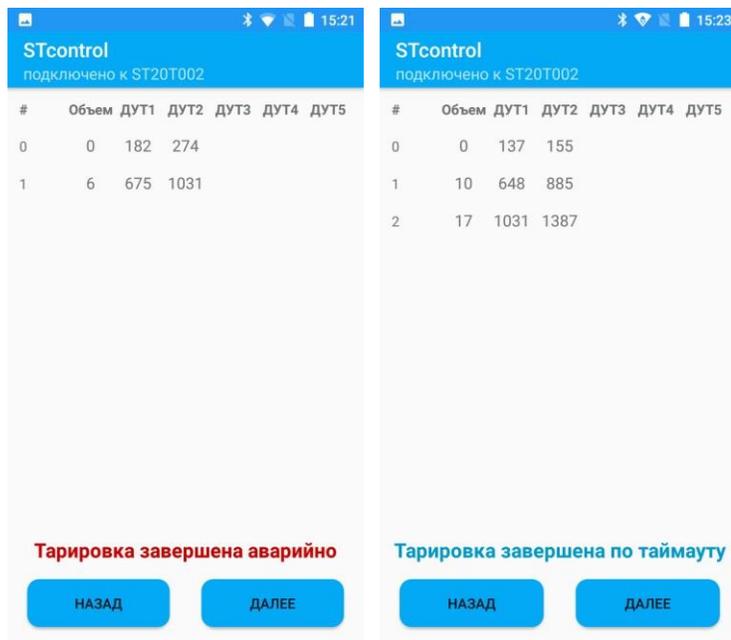
The **"Autopause"** function (supported in the software version of the calibration station 1.6 and higher) is designed to set the mode in which the calibration station independently chooses the time of each pause between straits, based on "fluctuations" in the readings of the fuel level sensors. In the "N max" list, select the maximum value of the FLS readings range.



The calibration process can be paused ("pause" / "continue" button) or terminated prematurely with the "stop" button from the application. After stopping and waiting for the pause time, the station will report the actually spilled dose at the moment of stopping and the readings of the sensors.

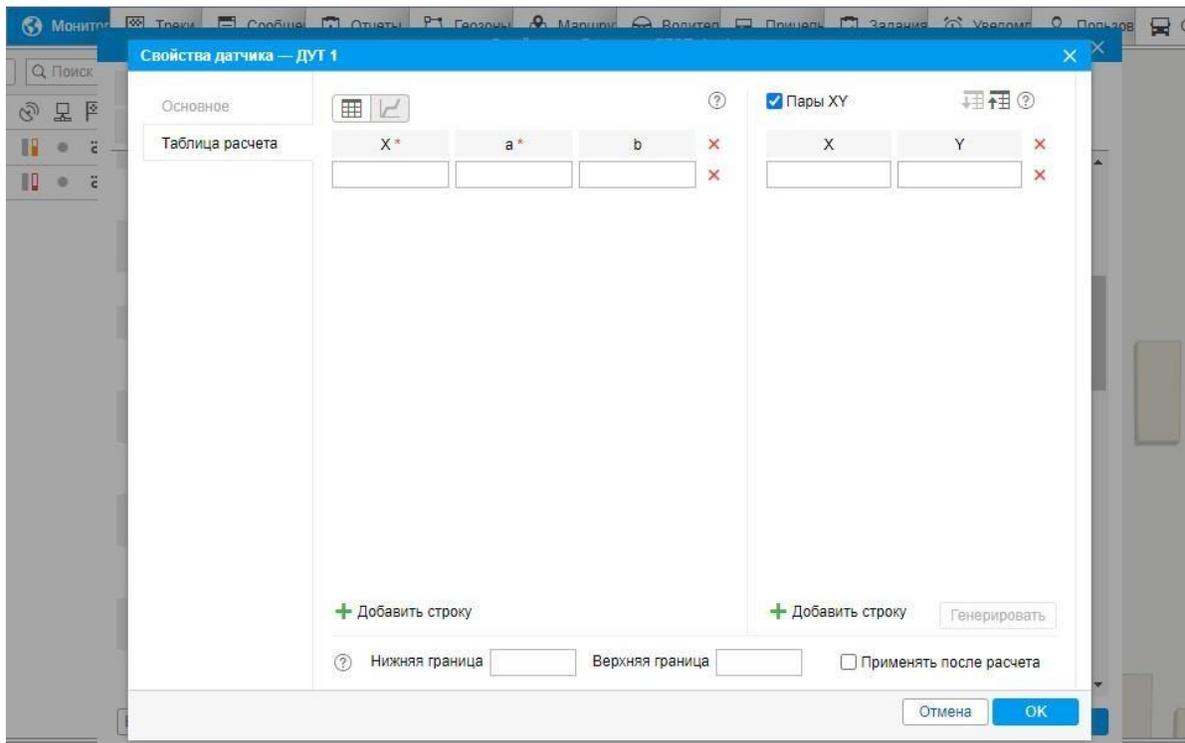


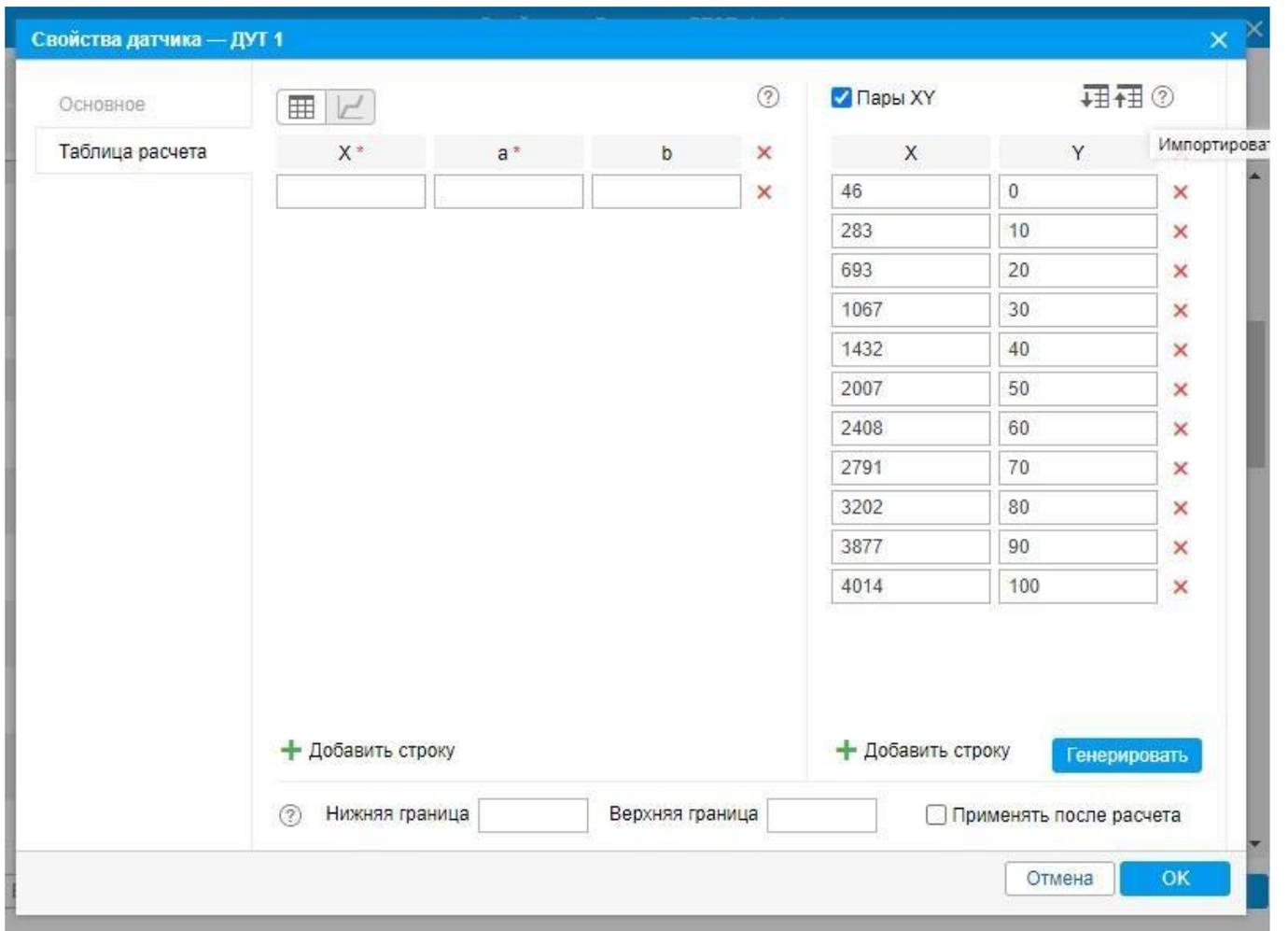
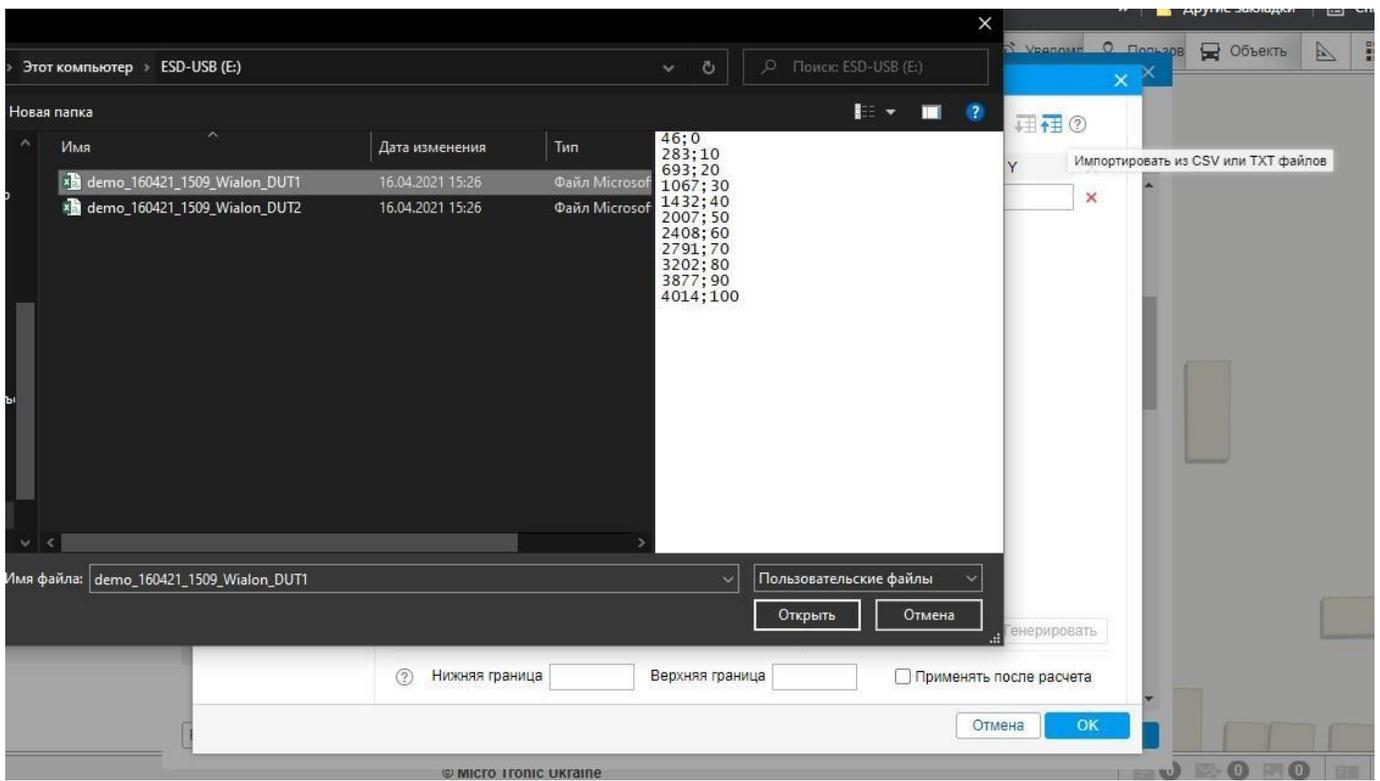
Also, the calibration process can be manually completed by the emergency stop button on the body of the calibration station or automatically by timeout (no pulses from the fuel meter within a minute), which will be indicated on the screen.



### An example of using the calibration results

The files obtained as a result of calibration can be imported into various transport monitoring systems. The screenshots below show an example of using the calibration results.





Свойства датчика — ДУТ 1

Основное

Таблица расчета

X*	a*	b
46	0.04219409282	-1.9409282700
283	0.02439024390	3.09756097560
693	0.02673796791	1.47058823529
1067	0.02739726027	0.76712328767
1432	0.01739130434	15.0956521739
2007	0.02493765586	-0.0498753117
2408	0.02610966057	-2.8720626631
2791	0.02433090024	2.09245742092
3202	0.01481481481	32.5629629629
3877	0.07299270072	-192.99270072

Пары XY

X	Y
46	0
283	10
693	20
1067	30
1432	40
2007	50
2408	60
2791	70
3202	80
3877	90
4014	100

Нижняя граница   Верхняя граница   Применять после расчета

