timestamp	exchange	price	shares	direct_bid	direct_ask	sip_bid	sip_ask	roc
2016-01-07 09:48:55.398272	5	99.12	100	99.16	99.17	99.12	99.14	-4
2016-01-07 09:48:55.398386	5	99.13	100	99.16	99.17	99.13	99.15	-3
2016-01-07 09:48:55.398444	5	99.14	100	99.16	99.17	99.14	99.15	-2
2016-01-07 09:48:55.398532	5	99.14	50	99.16	99.17	99.14	99.15	-1
2016-01-07 09:48:55.398560	5	99.14	100	99.16	99.17	99.14	99.14	-2

S5 Table. Example AAPL Trades with Negative ROC. A subset of the trades that occurred during a dislocation in AAPL on 2016-01-07 at approximately 9:48am that resulted in negative ROC. Negative ROC indicates that these trades executed at less favorable prices than what was offered by the DBBO.