## William Blair Sell Side - Held NMS Stocks and Options Order Routing Public Report Generation Date: 2021-04-30 14:58:40:213 GMT-0400 Year: 2021 Quarter: 1

Marketable Limit Orders as Non-Marketable Limit Orders
Percent of Non-Directed as Percent of Non-Directed Orders Orders
11.94% 24.27% Other Orders as Percent of Non-Directed Orders

Non-Directed Orders as Market Orders as Percent of Non-Percent of All Orders Directed Orders 100.00% 63.68%

ear: 2021	Quarter: 1

Year: 2021	Quarter: 1												
January 2021				S&P 500 Stocks									
Summary		Marketable Limit Orders as	Non-Marketable Limit Orders										
	s Market Orders as Percent of Non-	Percent of Non-Directed	as Percent of Non-Directed										
Percent of All Orders		Orders 0.31%	Orders	Non-Directed Orders									
100.00%	90.32/0	0.31/4	1.71%	1.00%									
Venues - Non Directed Orders	s												
									Net Payment Paid/Received				Net Payment Paid/Received
.,				Non-Marketable Limit Orders	01 01 00	Net Payment Paid/Received for Market Orders (USD)	for Market Orders (cents per hundred shares)				Non-Marketable Limit Orders		Other Orders (cents per hundred shares)
Citadel Securities LLC	Non-Directed Orders (%) 33.63%	34.23%	Marketable Limit Orders (%) 19.35%	(%) 31.95%	Other Orders (%) 3.66%	O market orders (USD)	0.0000	(030)	(cents per hundred shares) 0.0000	(030)	(cents per hundred shares) 0.0000	Other Orders (USD)	0.0000
Virtu Americas LLC (NITE)	32.67%	33.08%	38.71%	33.73%	6.71%	0	0.0000					0	0.0000
Wall Street Access Clearpool Execution Services.	32.29%	32.69%	41.94%	34.32%	4.88%	0	0.0000	0	0.0000	0	0.0000	0	0.0000
LLC	1.17%	0.00%	0.00%	0.00%	70.73%	0						0	0.0000
NYSE Bay Crest Partners LLC	0.17% 0.06%	0.00%	0.00%	0.00%	10.37% 3.66%	0		0				0	0.0000
January 2021				Non-S&P 500 Stocks									
Summary		Marketable Limit Orders as	Non-Marketable Limit Orders										
	s Market Orders as Percent of Non-	Percent of Non-Directed	as Percent of Non-Directed										
Percent of All Orders 100.00%		Orders 2.62%	Orders 6.13%	Non-Directed Orders 0.53%									
Venues - Non Directed Orders	s						Net Payment Paid/Received	Net Payment Paid/Received	Net Payment Paid/Received	Net Payment Paid/Received	Net Payment Paid/Received		Net Payment Paid/Received
				Non-Marketable Limit Orders			for Market Orders (cents per	Marketable Limit Orders	Marketable Limit Orders	Non-Marketable Limit Orders	Non-Marketable Limit Orders		Other Orders (cents per
Venue Citadel Securities LLC	Non-Directed Orders (%) 34.48%	Market Orders (%) 34.20%	Marketable Limit Orders (%) 41.09%	(%) 36.87%	Other Orders (%) 20.90%	for Market Orders (USD)	hundred shares) 0.0000	(USD)			(cents per hundred shares) 0.0000	Other Orders (USD)	hundred shares) 0.0000
Virtu Americas LLC (NITE)	33.19%	33.64%	26.28%	31.05%	14.93%	0	0.0000		0.0000	0	0.0000	0	0.0000
Wall Street Access Clearpool Execution Services.	32.06%	32.15%	32.63%	31.95%	14.93%	0	0.0000	0	0.0000	0	0.0000	0	0.0000
LLC	0.25%	0.00%	0.00%	0.13%	46.27%	0	0.0000	0	0.0000	0	0.0000	0	0.0000
New York Stock Exchange	0.02%	0.00%	0.00%	0.00%	2.99%	0	0.0000	0	0.0000	0	0.0000	0	0.0000
January 2021				Option Contracts									<del></del>
Summary													
Non Directed Orders as	s Market Orders as Percent of Non-		Non-Marketable Limit Orders as Percent of Non-Directed	Other Orders as Percent of									
Percent of All Orders	s Directed Orders	Orders	Orders	Non-Directed Orders									
100.00%	66.72%	10.54%	22.68%	0.05%									
Venues - Non Directed Orders	s												
				Non-Marketable Limit Orders			Net Payment Paid/Received for Market Orders (cents per		Net Payment Paid/Received		Net Payment Paid/Received Non-Marketable Limit Orders		Net Payment Paid/Received Other Orders (cents per
Venue	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)		for Market Orders (cents per hundred shares)		(cents per hundred shares)		(cents per hundred shares)	Other Orders (USD)	hundred shares)
National Financial Services	100.00%	100.00%	100.00%	100.00%	100.00%	0	0.0000	0	0.0000	0	0.0000	0	0.0000
LLC	100.00%	100.00%	100.00%	100.00%	100.00%	0	0.0000	0	0.0000	0	0.0000	0	0.0000
February 2021 Summary				S&P 500 Stocks									
			Non-Marketable Limit Orders										
Non-Directed Orders as Percent of All Orders	s Market Orders as Percent of Non- s Directed Orders	Percent of Non-Directed Orders	as Percent of Non-Directed Orders										
100.00%		0.41%	2.85%	1.33%									
Venues - Non Directed Orders	•												
Venues Hon Bil ected Orders							Net Payment Paid/Received	Net Payment Paid/Received	Net Payment Paid/Received	Net Payment Paid/Received	Net Payment Paid/Received		Net Payment Paid/Received
Venue	Non-Directed Orders (%)	\$4I O-I (9/)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders (USD)	for Market Orders (cents per hundred shares)	Marketable Limit Orders (USD)			Non-Marketable Limit Orders (cents per hundred shares)	Net Payment Paid/Received Other Orders (USD)	Other Orders (cents per hundred shares)
Virtu Americas LLC (NITE)	33.64%	34.09%	25.00%	35.56%	0.00%	0 O	0.0000	0				0	0.0000
Wall Street Access Citadel Securities LLC	32.74% 32.38%	33.32% 32.60%	40.63% 34.38%	26.22% 38.22%	2.86% 3.81%	0	0.0000	0				0	0.0000
Clearpool Execution Services,													
LLC	1.24%	0.00%	0.00%	0.00%	93.33%	0	0.0000	0	0.0000	0	0.0000	0	0.0000
February 2021				Non-S&P 500 Stocks									
Summary				14011 501 500 510013									
Non-Diseased Onders on	s Market Orders as Percent of Non-		Non-Marketable Limit Orders as Percent of Non-Directed	Other Orders as Percent of									
Percent of All Orders	s Directed Orders	Orders	Orders	Non-Directed Orders									
100.00%	6 88.24%	3.13%	7.85%	0.78%									
Venues - Non Directed Orders	s												
				Non-Marketable Limit Orders		Net Deves est 0 1160			Net Payment Paid/Received		Net Payment Paid/Received Non-Marketable Limit Orders	Nat Daymant S. 1169	Net Payment Paid/Received
Venue	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders (USD)	for Market Orders (cents per hundred shares)		Marketable Limit Orders (cents per hundred shares)		Non-Marketable Limit Orders (cents per hundred shares)	Net Payment Paid/Received Other Orders (USD)	Other Orders (cents per hundred shares)
Citadel Securities LLC	34.62%	34.03%	43.10%	38.61%	26.97%	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Virtu Americas LLC (NITE) Wall Street Access	32.63% 32.50%	33.22% 32.74%	27.89% 28.73%	28.84% 32.44%	22.47% 21.35%	0		0				0	0.0000
Clearpool Execution Services,								0		-		-	
LLC NASDAQ - All Markets	0.25% 0.01%	0.00% 0.01%	0.28%	0.11% 0.00%	29.21% 0.00%	0		8	1,000.0000		1,413.3451 0.0000	0	0.0000
	0.01%	0.01%	0.00%		0.00%		0.0000		0.0000		0.3000		0.0000
February 2021	-			Option Contracts									
Summary													

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			,	Non-Marketable Limit Orders		Net Payment Paid/Received		Net Payment Paid/Received Marketable Limit Orders	Net Payment Paid/Received Marketable Limit Orders	Net Payment Paid/Received Non-Marketable Limit Orders		Net Payment Paid/Received	Net Payment Paid/Received Other Orders (cents per
Venue	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	(%)	Other Orders (%)	for Market Orders (USD)	hundred shares)		(cents per hundred shares)		(cents per hundred shares)	Other Orders (USD)	hundred shares)
National Financial Services													
шс	100.00%	100.00%	100.00%	100.00%	100.00%	0	0.0000	0	0.0000	0	0.0000	0	0.0000
March 2021				S&P 500 Stocks									
Summary		Marketable Limit Orders as	Non-Marketable Limit Orders										
Non-Directed Orders as	Market Orders as Percent of Non-		as Percent of Non-Directed	Other Orders as Percent of									
Percent of All Orders		Orders	Orders	Non-Directed Orders									
100.00%		0.29%	2.95%	2.42%									
Venues - Non Directed Orders	s												
				Von-Marketable Limit Orders		Net Payment Paid/Received		Net Payment Paid/Received Marketable Limit Orders	Net Payment Paid/Received	Net Payment Paid/Received Non-Marketable Limit Orders		Net December Deld (December)	Net Payment Paid/Received Other Orders (cents per
Venue	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	(%)	Other Orders (%)	for Market Orders (USD)	hundred shares)	(USD)			(cents per hundred shares)	Other Orders (USD)	hundred shares)
Citadel Securities LLC	32.79%	33.47%	30.43%	37.18%	1.04%	O O	0.0000	(030)	0.0000		0.0000	Other Orders (USD)	0.0000
Virtu Americas LLC (NITE)	32.52%	33.40%	30.43%	30.77%	0.52%	0	0.0000	0	0.0000		0.0000	0	0.0000
Wall Street Access	32.32%	33.12%	39.13%	32.05%	0.52%	0	0.0000	0	0.0000		0.0000	0	0.0000
Virtu Americas LLC (ITGI) Clearpool Execution Services,	1.35%	0.00%	0.00%	0.00%	55.73%	0	0.0000	0	0.0000	0	0.0000	0	0.0000
LLC	1.02%	0.00%	0.00%	0.00%	42.19%	0	0.0000	0	0.0000	0	0.0000	0	0.0000
March 2021				Non-S&P 500 Stocks									
Summary													
			Non-Marketable Limit Orders										
Non-Directed Orders as Percent of All Orders	Market Orders as Percent of Non- Directed Orders	Percent of Non-Directed Orders	as Percent of Non-Directed Orders	Other Orders as Percent of Non-Directed Orders									
Percent of All Orders 100.00%		Urders 1.51%	7.94%	Non-Directed Orders 0.34%									
100.00%													
		1.31%	7.94%	0.34%									
Venues - Non Directed Orders	s	1.51%	7.94%	0.34%			Net Payment Paid/Received	Net Payment Paid/Received	Net Payment Paid/Received	Net Payment Paid/Received	Net Payment Paid/Received		Net Payment Paid/Received
Venues - Non Directed Orders	5	1.31%		0.34% Ion-Marketable Limit Orders		Net Payment Paid/Received		Net Payment Paid/Received Marketable Limit Orders		Net Payment Paid/Received Non-Marketable Limit Orders			Net Payment Paid/Received Other Orders (cents per
Venues - Non Directed Orders Venue	Non-Directed Orders (%)				Other Orders (%)						Non-Marketable Limit Orders (cents per hundred shares)		Other Orders (cents per hundred shares)
	Non-Directed Orders (%) 34.35%	Market Orders (%) 33.79%	N Marketable Limit Orders (%) 48.24%	Ion-Marketable Limit Orders	Other Orders (%) 7.89%	Net Payment Paid/Received 1	for Market Orders (cents per hundred shares) 0.0000	Marketable Limit Orders	Marketable Limit Orders (cents per hundred shares) 0.0000	Non-Marketable Limit Orders (USD)	Non-Marketable Limit Orders (cents per hundred shares) 0.0000	Net Payment Paid/Received	Other Orders (cents per hundred shares) 0.0000
Venue Citadel Securities LLC Virtu Americas LLC (NITE)	Non-Directed Orders (%) 34.35% 32.87%	Market Orders (%) 33.79% 33.22%	N Marketable Limit Orders (%) 48.24% 26.47%	ion-Marketable Limit Orders (%) 39.15% 30.87%	Other Orders (%) 7.89% 15.79%	Net Payment Paid/Received for Market Orders (USD)  0 0	for Market Orders (cents per hundred shares) 0.0000 0.0000	Marketable Limit Orders (USD)	Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000	Non-Marketable Limit Orders (USD) 0 0	Non-Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000	Net Payment Paid/Received Other Orders (USD)	Other Orders (cents per hundred shares) 0.0000 0.0000
Venue Citadel Securities LLC Virtu Americas LLC (NITE) Wall Street Access	Non-Directed Orders (%) 34.35% 32.87% 32.56%	Market Orders (%) 33.79% 33.22% 32.99%	Marketable Limit Orders (%) 48.24% 26.47% 25.29%	ion-Marketable Limit Orders (%) 39.15% 30.87% 29.98%	Other Orders (%) 7.89% 15.79% 13.16%	Net Payment Paid/Received of for Market Orders (USD)  0 0 0 0	for Market Orders (cents per hundred shares) 0.0000 0.0000 0.0000	Marketable Limit Orders (USD) 0 0	Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000	Non-Marketable Limit Orders (USD) 0 0	Non-Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000	Net Payment Paid/Received Other Orders (USD)	Other Orders (cents per hundred shares) 0.0000 0.0000 0.0000
Venue Citadel Securities LLC Virtu Americas LLC (NITE) Wall Street Access Virtu Americas LLC (ITGI) Clearpool Execution Services,	Non-Directed Orders (%) 34.35% 32.87% 32.56% 0.14%	Market Orders (%) 33.79% 33.22% 32.99% 0.00%	Marketable Limit Orders (%) 48.24% 26.47% 25.29% 0.00%	lon-Marketable Limit Orders (%) 39.15% 30.87% 29.98% 0.00%	Other Orders (%) 7.89% 15.79% 13.16% 42.11%	Net Payment Paid/Received for Market Orders (USD)  0 0 0 0	for Market Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000	Marketable Limit Orders (USD) 0 0 0	Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000	Non-Marketable Limit Orders (USD) 0 0 0 0	Non-Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000	Net Payment Paid/Received Other Orders (USD)  0 0 0 0	Other Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000
Venue Citadel Securities LLC Virtu Americas LLC (NITE) Wall Street Access Virtu Americas LLC (ITGI)	Non-Directed Orders (%) 34.35% 32.87% 32.56%	Market Orders (%) 33.79% 33.22% 32.99%	Marketable Limit Orders (%) 48.24% 26.47% 25.29%	ion-Marketable Limit Orders (%) 39.15% 30.87% 29.98%	Other Orders (%) 7.89% 15.79% 13.16%	Net Payment Paid/Received of for Market Orders (USD)  0 0 0 0	for Market Orders (cents per hundred shares) 0.0000 0.0000 0.0000	Marketable Limit Orders (USD) 0 0	Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000	Non-Marketable Limit Orders (USD) 0 0 0 0	Non-Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000	Net Payment Paid/Received Other Orders (USD)	Other Orders (cents per hundred shares) 0.0000 0.0000 0.0000
Venue Citadel Securities LLC Virtu Americas LLC (NITE) Wall Street Access Virtu Americas LLC (ITGI) Clearpool Execution Services, LLC March 2021	Non-Directed Orders (%) 34.35% 32.87% 32.56% 0.14%	Market Orders (%) 33.79% 33.22% 32.99% 0.00%	Marketable Limit Orders (%) 48.24% 26.47% 25.29% 0.00%	lon-Marketable Limit Orders (%) 39.15% 30.87% 29.98% 0.00%	Other Orders (%) 7.89% 15.79% 13.16% 42.11%	Net Payment Paid/Received for Market Orders (USD)  0 0 0 0	for Market Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000	Marketable Limit Orders (USD) 0 0 0	Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000	Non-Marketable Limit Orders (USD) 0 0 0 0	Non-Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000	Net Payment Paid/Received Other Orders (USD)  0 0 0 0	Other Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000
Venue Citadel Securities LLC Virtu Americas LLC (NITE) Wall Street Access Virtu Americas LLC (ITGI) Clearpool Execution Services, LLC	Non-Directed Orders (%) 34.35% 32.87% 32.56% 0.14%	Market Orders (%) 33.79% 33.22% 32.29% 0.00%	Marketable Limit Orders (%) 48.24% 26.47% 25.29% 0.00%	ion-Marketable Limit Orders (%) 39.15% 30.87% 29.98% 0.00%	Other Orders (%) 7.89% 15.79% 13.16% 42.11%	Net Payment Paid/Received for Market Orders (USD)  0 0 0 0	for Market Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000	Marketable Limit Orders (USD) 0 0 0	Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000	Non-Marketable Limit Orders (USD) 0 0 0 0	Non-Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000	Net Payment Paid/Received Other Orders (USD)  0 0 0 0	Other Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000
Venue Citadel Securities LLC Virtu Americas LLC (NITE) Wall Street Access Virtu Americas LLC (ITGI) Clearpool Execution Services, LLC March 2021 Summary	Non-Directed Orders (%) 34.35% 32.87% 32.67% 0.14% 0.07%	Market Orders (%) 33.79% 33.22% 32.99% 0.00% 0.00%	Marketable Limit Orders (%) 48.24% 26.47% 25.29% 0.00% 0.00%	ton-Marketable Limit Orders (%) 39.15%, 30.87%, 29.98%, 0.00% Option Contracts	Other Orders (%) 7.89% 15.79% 13.16% 42.11%	Net Payment Paid/Received for Market Orders (USD)  0 0 0 0	for Market Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000	Marketable Limit Orders (USD) 0 0 0	Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000	Non-Marketable Limit Orders (USD) 0 0 0 0	Non-Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000	Net Payment Paid/Received Other Orders (USD)  0 0 0 0	Other Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000
Venue Citadel Securities LLC Virtu Americas LLC (NITE) Wall Street Access Virtu Americas LLC (ITGI) Clearpool Execution Services, LLC March 2021 Summary Non-Directed Orders as	Non-Directed Orders (%) 34.35% 32.87% 32.56% 0.14% 0.07%	Market Orders (%) 33.79% 33.22% 32.29% 0.00% 0.00%  Marketable Limit Orders as Percent of Non-Directed	Marketable Limit Orders (%) 48.24% 26.47% 25.29% 0.00% 0.00% Non-Marketable Limit Orders as Percent of Non-Directed	(%) 39.15%, 30.87%, 29.98%, 0.00%, 0.00%, Option Contracts Other Orders as Percent of	Other Orders (%) 7.89% 15.79% 13.16% 42.11%	Net Payment Paid/Received for Market Orders (USD)  0 0 0 0	for Market Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000	Marketable Limit Orders (USD) 0 0 0	Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000	Non-Marketable Limit Orders (USD) 0 0 0 0	Non-Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000	Net Payment Paid/Received Other Orders (USD)  0 0 0 0	Other Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000
Venue Citadel Securities LLC Virtu Americas LLC (NITE) Wall Street Access Virtu Americas LLC (ITGI) Clearpool Execution Services, LLC March 2021 Summary	Non-Directed Orders (%) 34.35% 23.87% 22.55% 0.14% 0.07%	Market Orders (%) 33.79% 33.22% 32.99% 0.00% 0.00%	Marketable Limit Orders (%) 48.24% 26.47% 25.29% 0.00% 0.00%	ton-Marketable Limit Orders (%) 39.15%, 30.87%, 29.98%, 0.00% Option Contracts	Other Orders (%) 7.89% 15.79% 13.16% 42.11%	Net Payment Paid/Received for Market Orders (USD)  0 0 0 0	for Market Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000	Marketable Limit Orders (USD) 0 0 0	Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000	Non-Marketable Limit Orders (USD) 0 0 0 0	Non-Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000	Net Payment Paid/Received Other Orders (USD)  0 0 0 0	Other Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000
Venue Gradel Securities LLC Virtu Americas LLC (INTE) Virtu Americas LLC (INTE) Virtu Americas LLC (INTE) Virtu Americas LLC (ITGI) Clearpool Execution Services, LLC  March 2021 Summary  Non-Directed Orders as Percent of All Orders 100.00%	Non-Directed Orders (%) 34.35% 32.87% 32.87% 32.56% 0.14% 0.07%  Market Orders as Percent of Non-individual orders as Directed Orders in Directed Orders in Cl.61%	Market Orders (%) 33.279% 33.229% 0.00% 0.00%  Marketable Limit Orders as Percent of Non-Directed	Marketable Limit Orders (%) 48.24% 26.47% 25.29% 0.00% 0.00% Non-Marketable Limit Orders as Percent of Non-Directed	ton-Marketable Limit Orders (%) 39.15%, 30.37%, 29.96%, 0.00% Option Contracts Other Orders as Percent of Non-Directed Orders	Other Orders (%) 7.89% 15.79% 13.16% 42.11%	Net Payment Paid/Received for Market Orders (USD)  0 0 0 0	for Market Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000	Marketable Limit Orders (USD) 0 0 0	Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000	Non-Marketable Limit Orders (USD) 0 0 0 0	Non-Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000	Net Payment Paid/Received Other Orders (USD)  0 0 0 0	Other Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000
Venue Citadel Securities LLC Virtu Americas LLC (INTE) Wall Street Access Virtu Americas LLC (ITGE) Clearpool Execution Services, LC  March 2021 Summary Non-Directed Orders as Percent of All Orders	Non-Directed Orders (%) 34.35% 32.87% 32.87% 32.56% 0.14% 0.07%  Market Orders as Percent of Non-individual orders as Directed Orders in Directed Orders in Cl.61%	Market Orders (%) 33.279% 33.229% 0.00% 0.00%  Marketable Limit Orders as Percent of Non-Directed	Marketable Limit Orders (%) 48.24% 26.47% 25.29% 0.00% 0.00% Non-Marketable Limit Orders as Percent of Non-Directed Orders 25.60%	ion-Marketable Limit Orders (%) 39.15%, 30.37%, 29.98%, 0.00% Option Contracts Other Orders as Percent of Non-Directed Orders, 0.23%	Other Orders (%) 7.89% 15.79% 13.16% 42.11%	Net Payment Paid/Received for Market Orders (USD)  0 0 0 0 0 0 0	for Market Orders (cents per hundred shares)	Marketable Limit Orders (USD) 0 0 0 0 0 0 0	Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000 0.0000	Non-Marketable Limit Orders (USD) 0 0 0 0 0 0 0	Non-Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000	Net Payment Paid/Received Other Orders (USD)  0 0 0 0 0 0 0	Other Orders (cents per hundred shares)  .0.000 .0.000 .0.000 .0.000 .0.0000
Venue Citadel Securities LLC Virtu Americas LLC (NITE) Virtu Americas LLC (NITE) Virtu Americas LLC (NITE) Virtu Americas LLC (ITGI) Clearpool Execution Services, LLC March 2021 Summary Non-Directed Orders as Percent of All Orders 100.00% Venues - Non Directed Orders	Non-Directed Orders (%) 34.35% 32.87% 32.58% 0.14% 0.07%  Market Orders as Percent of Non- i Directed Orders 61.61%	Market Orders (%) 33.79% 33.22% 22.99% 0.00% 0.00%  Marketable Limit Orders as Percent of Non-Directed Orders 12.56%	Marketable Limit Orders (%) 48,24% 26,47% 25,29% 0,00% 0,00% Non-Marketable Limit Orders as Percent of Non-Directed Orders 25,60%	(%) 39.15%, 30.87%, 29.98%, 0.00%, 0.00%, 0.00%, 0.00%, 0.00%, 0.00% Option Contracts  Other Orders as Percent of Non-Directed Orders, 0.23%, 0.23%, 0.00%,	Other Orders (%) 7.89% 15.79% 13.16% 42.11% 21.05%	Net Payment Paid/Received  O	for Market Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	Marketable Limit Orders  (USD)  0 0 0 0 0 0 0 0 0 0 0 Net Payment Pald/Received Marketable Limit Orders	Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	Non-Marketable Limit Orders (USD) 0 0 0 0 0 0 0 0 0 0 Net Payment Paid/Received	Non-Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000 0.0000	Net Payment Paid/Received Other Orders (USD)  0 0 0 0 0 0 0	Other Orders (cents per hundred shares) .0.000 .0.0000 .0.0000 .0.0000 .0.0000
Venue Gradel Securities LLC Virtu America: LLC (NTE) Virtu America: LLC (NTE) Virtu America: LLC (NTE) Virtu America: LLC (UTG) Clearpool Execution Services, LLC March 2021 Summary Non-Directed Orders as Percent of All Orders 100.00% Venues - Non Directed Orders Venue	Non-Directed Orders (%) 34.35% 32.87% 32.87% 32.56% 0.14% 0.07%  Market Orders as Percent of Non-individual orders as Directed Orders in Directed Orders in Cl.61%	Market Orders (%) 33.79% 33.22% 22.99% 0.00% 0.00%  Marketable Limit Orders as Percent of Non-Directed Orders 12.56%	Marketable Limit Orders (%) 48.24% 26.47% 25.29% 0.00% 0.00% Non-Marketable Limit Orders as Percent of Non-Directed Orders 25.60%	ion-Marketable Limit Orders (%) 39.15%, 30.37%, 29.98%, 0.00% Option Contracts Other Orders as Percent of Non-Directed Orders, 0.23%	Other Orders (%) 7.89% 15.79% 13.16% 42.11%	Net Payment Paid/Received for Market Orders (USD)  0 0 0 0 0 0 0	for Market Orders (cents per hundred shares)	Marketable Limit Orders (USD) 0 0 0 0 0 0 0	Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	Non-Marketable Limit Orders (USD) 0 0 0 0 0 0 0 0 0 0 Net Payment Paid/Received	Non-Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000	Net Payment Paid/Received Other Orders (USD)  0 0 0 0 0 0 0	Other Orders (cents per hundred shares)  .0.000 .0.000 .0.000 .0.000 .0.0000
Venue Citadel Securities LLC Virtu Americas LLC (NITE) Virtu Americas LLC (NITE) Virtu Americas LLC (NITE) Virtu Americas LLC (TIGI) Clearpool Execution Services, LLC March 2021 March 2021 Summary Non-Directed Orders as Percent of All Orders 100.00% Venues - Non Directed Orders Venue National Financial Services	Non-Directed Orders (%) 34.35% 32.87% 32.58% 0.14% 0.07%  Market Orders as Percent of Non-increase Orders 61.61%	Market Orders (%) 33.79% 33.22% 2.99% 0.00% 0.00%  Marketable Limit Orders as Percent of Non-Directed Orders 12.56%	Marketable Limit Orders (%) 48,24% 26,47% 20,00% 0,00% 0,00% Non-Marketable Limit Orders as Percent of Non-Directed Orders 25,60% Marketable Limit Orders (%)	Option Contracts  Other Orders a Percent of Non-Directed Orders, 0.23%  Option Contracts  Other Orders as Percent of Non-Directed Orders, 0.23%  Non-Marketable Limit Orders (%)	Other Orders (%) 7.89% 15.79% 14.211% 21.05% Other Orders (%)	Net Payment Paid/Received for Market Orders (USD)  0 0 0 0 0 0 0 0 0 0 Net Payment Paid/Received for Market Orders (USD)	Vor Market Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000  0.0000  Met Payment Paid/Received for Market Orders (cents per hundred shares)	Marketable Limit Orders  (USD)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 Net Payment Pald/Received Marketable Limit Orders (USD)	Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 Met Payment Paid/Received Marketable Limit Orders (cents per hundred shares)	Non-Marketable Limit Orders (USD) 0 0 0 0 0 0 0 0 0 0 Net Payment Paid/Received Non-Marketable Limit Orders (USD)	Non-Marketable Limit Orders (cents per hundred shares) 0.0000 0.0	Net Payment Paid/Received Other Orders (USD)  0 0 0 0 0 0 0 0 0 0  Net Payment Paid/Received Other Orders (USD)	Other Orders (cents per hundred shares) .0.000 .0.0000 .0.0000 .0.0000 .0.0000 .0.0000  .0.0000  .0.0000  .0.0000  Net Payment Paid/Received Other Orders (cents per hundred shares)
Venue Gradel Securities LLC Virtu America: LLC (NTE) Virtu America: LLC (NTE) Virtu America: LLC (NTE) Virtu America: LLC (UTG) Clearpool Execution Services, LLC March 2021 Summary Non-Directed Orders as Percent of All Orders 100.00% Venues - Non Directed Orders Venue	Non-Directed Orders (%) 34.35% 32.87% 32.58% 0.14% 0.07%  Market Orders as Percent of Non- i Directed Orders 61.61%	Market Orders (%) 33.79% 33.22% 22.99% 0.00% 0.00%  Marketable Limit Orders as Percent of Non-Directed Orders 12.56%	Marketable Limit Orders (%) 48,24% 26,47% 25,29% 0,00% 0,00% Non-Marketable Limit Orders as Percent of Non-Directed Orders 25,60%	(%) 39.15%, 30.87%, 29.98%, 0.00%, 0.00%, 0.00%, 0.00%, 0.00%, 0.00% Option Contracts  Other Orders as Percent of Non-Directed Orders, 0.23%, 0.23%, 0.00%,	Other Orders (%) 7.89% 15.79% 13.16% 42.11% 21.05%	Net Payment Paid/Received  O	for Market Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	Marketable Limit Orders  (USD)  0 0 0 0 0 0 0 0 0 0 0 Net Payment Pald/Received Marketable Limit Orders	Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	Non-Marketable Limit Orders (USD) 0 0 0 0 0 0 0 0 0 0 Net Payment Paid/Received Non-Marketable Limit Orders (USD)	Non-Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000 0.0000	Net Payment Paid/Received Other Orders (USD)  0 0 0 0 0 0 0	Other Orders (cents per hundred shares) .0.000 .0.0000 .0.0000 .0.0000 .0.0000
Venue Citadel Securities LLC Virtu Americas LLC (NITE) Virtu Americas LLC (NITE) Virtu Americas LLC (NITE) Virtu Americas LLC (TIGI) Clearpool Execution Services, LLC March 2021 March 2021 Summary Non-Directed Orders as Percent of All Orders 100.00% Venues - Non Directed Orders Venue National Financial Services	Non-Directed Orders (%) 34.35% 32.87% 32.58% 0.14% 0.07%  Market Orders as Percent of Non-increase Orders 61.61%	Market Orders (%) 33.79% 33.22% 2.99% 0.00% 0.00%  Marketable Limit Orders as Percent of Non-Directed Orders 12.56%	Marketable Limit Orders (%) 48,24% 26,47% 20,00% 0,00% 0,00% Non-Marketable Limit Orders as Percent of Non-Directed Orders 25,60% Marketable Limit Orders (%)	Option Contracts  Other Orders a Percent of Non-Directed Orders, 0.23%  Option Contracts  Other Orders as Percent of Non-Directed Orders, 0.23%  Non-Marketable Limit Orders (%)	Other Orders (%) 7.89% 15.79% 14.211% 21.05% Other Orders (%)	Net Payment Paid/Received for Market Orders (USD)  0 0 0 0 0 0 0 0 0 0 Net Payment Paid/Received for Market Orders (USD)	Vor Market Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000  0.0000  Met Payment Paid/Received for Market Orders (cents per hundred shares)	Marketable Limit Orders  (USD)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 Net Payment Pald/Received Marketable Limit Orders (USD)	Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 Met Payment Paid/Received Marketable Limit Orders (cents per hundred shares)	Non-Marketable Limit Orders (USD) 0 0 0 0 0 0 0 0 0 0 Net Payment Paid/Received Non-Marketable Limit Orders (USD)	Non-Marketable Limit Orders (cents per hundred shares) 0.0000 0.0	Net Payment Paid/Received Other Orders (USD)  0 0 0 0 0 0 0 0 0 0  Net Payment Paid/Received Other Orders (USD)	Other Orders (cents per hundred shares) .0.000 .0.0000 .0.0000 .0.0000 .0.0000 .0.0000  .0.0000  .0.0000  .0.0000  Net Payment Paid/Received Other Orders (cents per hundred shares)
Venue Citadel Securities LLC Virtu Americas LLC (NITE) Wall Street Access Virtu Americas LLC (ITG) Clearpool Execution Services, LLC March 2021 Summary Non-Directed Orders as Percent of All Orders 100.00% Venues - Non Directed Orders Venue National Financial Services	Non-Directed Orders (%) 34.35% 32.87% 32.58% 0.14% 0.07%  Market Orders as Percent of Non-increase Orders 61.61%	Market Orders (%) 33.79% 33.22% 2.99% 0.00% 0.00%  Marketable Limit Orders as Percent of Non-Directed Orders 12.56%	Marketable Limit Orders (%) 48,24% 26,47% 20,00% 0,00% 0,00% Non-Marketable Limit Orders as Percent of Non-Directed Orders 25,60% Marketable Limit Orders (%)	Option Contracts  Other Orders a Percent of Non-Directed Orders, 0.23%  Option Contracts  Other Orders as Percent of Non-Directed Orders, 0.23%  Non-Marketable Limit Orders (%)	Other Orders (%) 7.89% 15.79% 14.211% 21.05% Other Orders (%)	Net Payment Paid/Received for Market Orders (USD)  0 0 0 0 0 0 0 0 0 0 Net Payment Paid/Received for Market Orders (USD)	Vor Market Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000  0.0000  Met Payment Paid/Received for Market Orders (cents per hundred shares)	Marketable Limit Orders  (USD)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 Net Payment Pald/Received Marketable Limit Orders (USD)	Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 Met Payment Paid/Received Marketable Limit Orders (cents per hundred shares)	Non-Marketable Limit Orders (USD) 0 0 0 0 0 0 0 0 0 0 Net Payment Paid/Received Non-Marketable Limit Orders (USD)	Non-Marketable Limit Orders (cents per hundred shares) 0.0000 0.0	Net Payment Paid/Received Other Orders (USD)  0 0 0 0 0 0 0 0 0 0  Net Payment Paid/Received Other Orders (USD)	Other Orders (cents per hundred shares) .0.000 .0.0000 .0.0000 .0.0000 .0.0000 .0.0000  .0.0000  .0.0000  .0.0000  Net Payment Paid/Received Other Orders (cents per hundred shares)