						I				1								
Hightower																		
Securities does not						HIGHTOWER SECURITIES, LLC - Held NMS												
receive payment for order flow.	Third Quarter, 2021					Stocks and Options Order Routing Public Report												
July 2021																		
S&P 500 Stocks																		
Summary							Non-Marketable											
	Non-Directed		Market Orders as %		Marketable Limit		Limit Orders as % of		Other Orders as %									
Total Non-Directed	Orders as % of All		of Non-Directed	Total Marketable	Orders as % of Non-		Non-Directed		of Non-Directed									
Orders 57	Orders 100.00	Total Market Orders 39		Limit Orders	Directed Orders 1.75	Total Non-Marketable Limit Orders	Orders 26.32	Total Other Orders	Orders 2 3.51									
3/	100.00	39	08.42	1	1./5	10	20.32		3.51									
Venues																		
												Net Payment		Net Payment		Net Payment		
												Paid/Received for	Net Payment	Paid/Received for	Net Payment	Paid/Received for		Net Payment
											Net Payment	Market	Paid/Received for	Marketable Limit	Paid/Received for	Non-Marketable	Net Payment	Paid/Received for
Venue - Non-	Non-Directed	Non-Directed			Marketable Limit		Non-Marketable	Non-Marketable			Paid/Received for	Orders(cents per	Marketable Limit	Orders(cents per	Non-Marketable	Limit Orders(cents	Paid/Received for	Other Orders(cents
directed Order Flow	Orders	Orders(%)	Market Orders	Market Orders(%)	Orders	Marketable Limit Orders(%)	Limit Orders	Limit Orders(%)	Other Orders	Other Orders(%)	Market Orders(USD	hundred shares)	Orders(USD)	hundred shares)	Limit Orders(USD)	per hundred shares)	Other Orders(USD)	per hundred shares)
NASDAQ Execution																		
Services, LLC(NSDQ) Citadel Securities	46	46.94	0	0.00	0	0.00	46	83.6	1 0	0.00	(0	0	0	0	0	0
LLC(CDRG)	23	23.47	20	51.28	0	0.00	3	5.4		0.00		,	ه ا		۱ .			
VIRTU Americas,																		
LLC(NITE)	11	11.22	10	25.64	1	100.00	0	0.0	0	0.00			0	0	0	0	0	0
JANE STREET					1								1		1			
CAPITAL, LLC(JNST)	6	6.12	5	12.82	0	0.00	1	1.8	2 0	0.00			0	0	0	0	0	0
Choe EDGX US																		
Equities Exchange(EDGX)		5.10		0.00		0.00		9.0		0.00		, ,						
UBS Securities,	· ·		,								`	'	<u> </u>			1	°	1
LLC(UBSS)	3	3.06	1	2.56	0	0.00	0	0.0	2	66.67			0	0	0	0	0	0
Two Sigma Securities					_									_				7
LLC(SOHO)	,	2.04	,	5.13		0.00		0.0	,	0.00	, ,	, ,	, ,				_	
Instinet			ŕ				·				,	, i	T .		ľ	T .	T	ا
BlockCross(BLKX)	1	1.02	0	0.00	0	0.00	0	0.0	1	33.33			0	0	0	0	0	0
G1 Execution																		
Services, LLC(ETMM)	1	1.02	1	2.56	0	0.00	0	0.0	0	0.00			0	0	0		0	0
July 2021																		
Non-S&P 500 Stocks																		
Summary																		
							Non-Marketable											
	Non-Directed		Market Orders as %		Marketable Limit		Limit Orders as % of		Other Orders as %			1			I	1		1
															I	1		1
	Orders as % of All	Total Market Orders	of Non-Directed	Total Marketable	Orders as % of Non-	Total Non-Marketable Limit Orders	Non-Directed	Total Other Orders	of Non-Directed									
Total Non-Directed Orders	Orders as % of All Orders	Total Market Orders	of Non-Directed Orders	Total Marketable Limit Orders	Orders as % of Non- Directed Orders	Total Non-Marketable Limit Orders	Non-Directed Orders	Total Other Orders	of Non-Directed Orders	!								
Orders	Orders as % of All		of Non-Directed		Orders as % of Non-	Total Non-Marketable Limit Orders	Non-Directed Orders	Total Other Orders	of Non-Directed									
Orders 111	Orders as % of All Orders		of Non-Directed Orders		Orders as % of Non- Directed Orders	Total Non-Marketable Limit Orders	Non-Directed Orders	Total Other Orders	of Non-Directed Orders			Net Payment		Net Payment		Net Payment		
Orders 111	Orders as % of All Orders		of Non-Directed Orders		Orders as % of Non- Directed Orders	Total Non-Marketable Limit Orders	Non-Directed Orders	Total Other Orders	of Non-Directed Orders			Net Payment Paid/Received for	Net Payment	Paid/Received for	Net Payment	Net Payment Paid/Received for		Net Payment
Orders 111 Venues	Orders as % of All Orders 100.00	76	of Non-Directed Orders		Orders as % of Non- Directed Orders 0.90	Total Non-Marketable Limit Orders 15	Non-Directed Orders	1!	of Non-Directed Orders		Net Payment	Paid/Received for Market	Paid/Received for	Paid/Received for Marketable Limit	Paid/Received for	Paid/Received for Non-Marketable	Net Payment	Paid/Received for
Orders 111 Venues Venue - Non-	Orders as % of All Orders 100.00	76 Non-Directed	of Non-Directed Orders 68.47	Limit Orders 1	Orders as % of Non- Directed Orders 0.90 Marketable Limit	15	Non-Directed Orders 13.51 Non-Marketable	Non-Marketable	of Non-Directed Orders 9 17.12		Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Venue - Non- directed Order Flow Citadel Securities	Orders as % of All Orders 100.00	Non-Directed Orders(%)	of Non-Directed Orders 68.47	Limit Orders 1 Market Orders(%)	Orders as % of Non- Directed Orders 0.90 Marketable Limit	15 Marketable Limit Orders(%)	Non-Directed Orders	Non-Marketable Limit Orders(%)	of Non-Directed Orders) 17.12 Other Orders	Other Orders(%)		Paid/Received for Market Orders(cents per	Paid/Received for	Paid/Received for Marketable Limit	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable	Paid/Received for	Paid/Received for Other Orders(cents
Venues Venue - Non- directed Order Flow Citadel Securities LLC(CDRG)	Orders as % of All Orders 100.00	76 Non-Directed	of Non-Directed Orders 68.47	Limit Orders 1	Orders as % of Non- Directed Orders 0.90 Marketable Limit	15	Non-Directed Orders 13.51 Non-Marketable	Non-Marketable	of Non-Directed Orders) 17.12 Other Orders		Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Venue - Non- directed Order Flow Citadel Securities LLC(CDRG) VIRTU Americas,	Orders as % of All Orders 100.00	Non-Directed Orders(%)	of Non-Directed Orders 68.47	Limit Orders 1 Market Orders(%) 50.00	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders	15 Marketable Limit Orders(%)	Non-Directed Orders 13.51 Non-Marketable	Non-Marketable Limit Orders(%)	of Non-Directed Orders 17.12 Other Orders	Other Orders(%)	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Venue - Non- directed Order Flow Citadel Securities LLC(CNG) VIRTU Americas, LLC(INTE)	Orders as % of All Orders 100.00	Non-Directed Orders(%)	of Non-Directed Orders 68.47	Limit Orders 1 Market Orders(%)	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders	Marketable Limit Orders(%)	Non-Directed Orders 13.51 Non-Marketable	Non-Marketable Limit Orders(%)	of Non-Directed Orders 17.12 Other Orders	Other Orders(%)	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Venues Venue - Non- directed Order Flow Citadel Securities LLC(CDRG) VIRTU Americas, LLC(NITE) JANE STREET	Orders as % of All Orders 100.00	Non-Directed Orders(%) 43.86	of Non-Directed Orders 68.47	Limit Orders 1	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders	Marketable Limit Orders(%)	Non-Directed Orders 13.51 Non-Marketable	Non-Marketable Limit Orders(%) 11.7	of Non-Directed Orders 17.12	Other Orders(%) 45.00	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Orders 111 Venues Venue - Non- directed Order Flow Citadel Securities LLC(CDRG) VIRTU Americas, LLC(INTE) JANE STREET CAPITAL, LLC(JINST)	Orders as % of All Orders 100.00	Non-Directed Orders(%)	of Non-Directed Orders 68.47	Limit Orders 1 Market Orders(%) 50.00	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders	Marketable Limit Orders(%)	Non-Directed Orders 13.51 Non-Marketable	Non-Marketable Limit Orders(%)	of Non-Directed Orders 17.12	Other Orders(%)	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Orders 111 Venues Venue - Non- directed Order Flow Citadel Securitles LLC(CDRG) VIRTU Americas, LLC(INT) LUCONSTILLUCIONSTILLUCIONSTILLUCIONSTILLUCIONSTILLUCIONSTILLUCIONSTILLUCIONSSILLUCIUSSS	Orders as % of All Orders 100.00	Non-Directed Orders(%) 43.86	of Non-Directed Orders 68.47	Limit Orders 1	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders	Marketable Limit Orders(%)	Non-Directed Orders 13.51 Non-Marketable Limit Orders 2 4	Non-Marketable Limit Orders(%) 11.7	of Non-Directed Orders 17.12 Other Orders 5 Other Orders 5 Other Orders 5 S 5 S 6	Other Orders(%) 45.00	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Orders 111 Venue - Non- directed Order Flow Citadel Securities LLC(CDRG) VIRTU Americas, LLC(NTF) JANE STREET CAPITAL, LLC(JNST) USS Securities, LLC(JUSSS) Choe EDGX US	Orders as % of All Orders 100.00	Non-Directed Orders(%) 43.86 28.95	of Non-Directed Orders 68.47	Limit Orders 1	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders	15 Marketable Limit Orders(%) 100.00 0.00	Non-Directed Orders 13.51 Non-Marketable Limit Orders 2 4	Non-Marketable Limit Orders(%) 11.7/ 23.5:	of Non-Directed Orders 17.12 Other Orders 5 Other Orders 5 Other Orders 5 S 5 S 6	Other Orders(%) 45.00 40.00	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Orders 111 Venues Venue - Non- directed Order Flow Citadel Securities LLC(DRG) VIRTU Americas, LLC(NITE) JANE STREET CAPITAL LLC(JNST) UBS Securities, LLC(JUSS) Choe EDGX US Equities	Orders as % of All Orders 100.00	Non-Directed Orders(%) 43.86 28.95 7.02	of Non-Directed Orders 68.47	Market Orders(%) 50.00 27.63	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders	Marketable Limit Orders(%) 100.00 0.00 0.00	Non-Directed Orders 13.51 Non-Marketable Limit Orders 2 4	Non-Marketable Limit Orders(%) 11.77 23.5	Of Non-Directed Orders 17.12 Other Orders 5 Other Orders 5 S 8 S 8 D 0 2	Other Orders(%) 45.00 40.00 10.00	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Orders 111 Venue - Non- directed Order Flow Citadel Securities LLC(CDRG) VIRTU Americas, LLC(NTF) JANE STREET CAPITAL, LLC(JNST) USS Securities, LLC(JUSSS) Choe EDGX US	Orders as % of All Orders 100.00	Non-Directed Orders(%) 43.86 28.95	of Non-Directed Orders 68.47	Limit Orders 1	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders	15 Marketable Limit Orders(%) 100.00 0.00	Non-Directed Orders 13.51 Non-Marketable Limit Orders 2 4	Non-Marketable Limit Orders(%) 11.7/ 23.5:	Of Non-Directed Orders 17.12 Other Orders 5 Other Orders 5 S 8 S 8 D 0 2	Other Orders(%) 45.00 40.00	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Venue - Non- directed Order Flow Cinadel Securities LLC(ORO) VWRTU Americas, LLC(NTZ) JAME STREET CAPITAL, LLC(JNST) USS Securities LLC(OROS) Equities Exchange(EDGX)	Orders as % of All Orders 100.00	Non-Directed Orders(%) 43.86 28.95 7.02	of Non-Directed Orders 68.47	Market Orders(%) 50.00 27.63	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders	Marketable Limit Orders(%) 100.00 0.00 0.00	Non-Directed Orders 13.51 Non-Marketable Limit Orders 2 4	Non-Marketable Limit Orders(%) 11.77 23.5	Of Non-Directed Orders 17.12 Other Orders 5 Other Orders 5 S 8 S 8 D 0 2	Other Orders(%) 45.00 40.00 10.00	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Orders 111 Venues Venue - Non- directed Order Flow Citadel Securities LLC(CORG) VIRTU Americas, LLC(NITE) JANE STREET CAPITAL LLC(JMST) UBS Securities, LLC(JWSS) Choe EDGX US Equities Exchange(EDGX) NASDAQ Execution	Orders as % of All Orders 100.00	Non-Directed Orders(%) 43.86 28.95 7.02 5.26	of Non-Directed Orders 68.47	Market Orders(%) 50.00 27.63 10.53 5.26	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders	Marketable Limit Orders(%) 100.00 0.00 0.00 0.00	Non-Directed Orders 13.51 Non-Marketable Limit Orders 2 4	Non-Marketable Limit Orders(%) 11.7/ 23.5: 0.00	of Non-Directed Orders 17.12 Other Orders g g g g g g g g g g g g g	Other Orders(%) 45.00 40.00 10.00	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Orders 111 Venues Venue - Non- directed Order Flow Chadel Securities LLC(DRG) VRTU Americas, LLC(NRT) JAME STREET CAPITAL, LLC(JNST) LUS Securities, LLC(JNST) LUS Securities LLC(JNST) LUS Securities LLC(JNST) LUS Securities LLC(JNST) LNS Securities LLC(JNST) LNS SECURITIES LLC(JNST) LNS SECURITIES SECURIT	Orders as % of All Orders 100.00	Non-Directed Orders(%) 43.86 28.95 7.02	of Non-Directed Orders 68.47	Market Orders(%) 50.00 27.63	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders	Marketable Limit Orders(%) 100.00 0.00 0.00	Non-Directed Orders 13.51 Non-Marketable Limit Orders 2 4	Non-Marketable Limit Orders(%) 11.77 23.5	of Non-Directed Orders 17.12 Other Orders g g g g g g g g g g g g g	Other Orders(%) 45.00 40.00 10.00	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Orders 111 Venues Venue - Non- directed Order Flow Citadel Securities LLC(DRG) VIRTU Americas, LLC(MIT) URIS Securities LLC(DRST) URIS Securities LLC(DRST) URIS Securities LLC(DRST) LLC(DRST) LLC(DRST) LRC(DRST) LR	Orders as % of All Orders 100.00	76 Non-Directed Orders(%) 43.86 28.95 7.02 5.26 4.39	of Non-Directed Orders 68.47	Market Orders(%) 50.00 27.63 10.53 5.26 0.00	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders	Marketable Limit Orders(%) 100.00 0.00 0.00 0.00	Non-Directed Orders 13.51 Non-Marketable Limit Orders 2 4	Non-Marketable Limit Orders(%) 11.7. 23.5: 0.00 0.00	of Non-Directed Orders 17.12 Other Orders 5 9 9 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	Other Orders(%) 45.00 40.00 10.00	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Orders 111 Venues Venue - Non- directed Order Flow (Cladel Securities LLC(CDRG) VIRTU Americas, LLC(NITS) JANE STREET CAPITAL, LLC(JINST) UBS Securities, LLC(SUBS) Choe EDGX US Equities Exchange(EDGX) NASDAQ Execution Services, LLC(NSDQ) Two Sigma	Orders as % of All Orders 100.00	Non-Directed Orders(%) 43.86 28.95 7.02 5.26	of Non-Directed Orders 68.47	Market Orders(%) 50.00 27.63 10.53 5.26	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders	Marketable Limit Orders(%) 100.00 0.00 0.00 0.00	Non-Directed Orders 13.51 Non-Marketable Limit Orders 2 4	Non-Marketable Limit Orders(%) 11.7/ 23.5: 0.00	of Non-Directed Orders 17.12 Other Orders 5 9 9 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	Other Orders(%) 45.00 40.00 10.00	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Orders 111 Venues Venue - Non- directed Order Flow Citadel Securities LLC(DRG) VIRTU Americas, LLC(MIT) URIS Securities LLC(DRST) URIS Securities LLC(DRST) URIS Securities LLC(DRST) LLC(DRST) LLC(DRST) LRC(DRST) LR	Orders as % of All Orders 100.00	76 Non-Directed Orders(%) 43.86 28.95 7.02 5.26 4.39	of Non-Directed Orders 68.47	Market Orders(%) 50.00 27.63 10.53 5.26 0.00	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders	Marketable Limit Orders(%) 100.00 0.00 0.00 0.00	Non-Directed Orders 13.51 Non-Marketable Limit Orders 2 4	Non-Marketable Limit Orders(%) 11.7. 23.5: 0.00 0.00	of Non-Directed Orders 17.12 Other Orders 5 9 9 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	Other Orders(%) 45.00 40.00 10.00	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Orders 111 Venues Venue - Non- directed Order Flow Citadel Securities LLC(CDRG) VIRTU Americas, LLC(NTE) JANE STREET CAPITAL LIC(JNST) UBS Securities, LLC(JUSS) Choe EDGX US Equities Exchange(EDGX) NASDAQ Execution Services, LLC(NSDQ) Two Sigma Securities, LLC(SDHO) GI Execution	Orders as % of All Orders 100.00	76 Non-Directed Orders(%) 43.86 28.95 7.02 5.26 4.39	of Non-Directed Orders 68.47	Market Orders(%) 50.00 27.63 10.53 5.26 0.00 3.95	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders	Marketable Limit Orders(%) 100.00 0.00 0.00 0.00	Non-Directed Orders 13.51 Non-Marketable Limit Orders 2 4	Non-Marketable Limit Orders(%) 11.77 23.5: 0.00 29.4.	of Non-Directed Orders 17.12 Other Orders 5 S S S S S S S S S S S S S S S S S S	Other Orders(%) 45.00 40.00 10.00 0.00	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Orders 111 Venues Venue - Non- directed Order Flow Citadel Securities LLC(CDRG) VIRTU Americas, LLC(NTE) JANE STREET CAPITAL LEC(JNST) UBS Securities, LLC(JUSST) LC(JUSSS) Choe EDGX US Equities Exchange(EDGX) NASDAQ Execution Services, LLC(NSDQ) Two Sigma Securities, LLC(SDDQ) GI Execution Services, LLC(ETMM) Instinet	Orders as % of All Orders 100.00	76 Non-Directed Orders(%) 43.86 28.95 7.02 5.26 4.39 4.39 2.63	of Non-Directed Orders 68.47	Market Orders(%) 50.00 27.63 10.53 5.26 0.00 3.95	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders 0 0 0 0 0	Marketable Limit Orders(%) 100.00 0.00	Non-Directed Orders 13.51 Non-Marketable Limit Orders 2 4 4 0 0 0 0 0 0 0	Non-Marketable Limit Orders(%) 11.7: 23.5: 0.00 0.01 29.4: 29.4: 0.00	of Non-Directed Orders Other Orders S S S S S S S S S S S S S	Other Orders(%) 45.00 40.00 10.00 0.00 0.00	Paid/Received for Market Orders(USD)	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Venue - Non- directed Order Flow (Chadel Securities LLC(CDRG) VIRTU Americas, LLC(NITE) URIS Securities LLC(DIST) URIS Securities Securities LLC(DIST) URIS Securities LLC(DIST) URIS Securities LLC(DIST) Control Control LLC(DIST) URIS Securities Services, LLC(DIST) Institute LLC(LETTIM) Institute LLC(LLC(LETTIM) Institute LLC(LLC(LETTIM) Institute LLC(LLC(LLC(LLC(LLC(LLC(LLC(LLC(LLC(LLC	Orders as % of All Orders 100.00	76 Non-Directed Orders(%) 43.86 28.95 7.02 5.26 4.39 4.39	of Non-Directed Orders 68.47	Market Orders(%) 50.00 27.63 10.53 5.26 0.00 3.95	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders 0 0 0 0 0	Marketable Limit Orders(%) 100.00 0.00	Non-Directed Orders 13.51 Non-Marketable Limit Orders 2 4 4 0 0 0 0 0 0 0	Non-Marketable Limit Orders(%) 11.77 23.5: 0.00 29.4.	of Non-Directed Orders Other Orders S S S S S S S S S S S S S	Other Orders(%) 45.00 40.00 10.00 0.00	Paid/Received for Market Orders(USD)	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Venue - Non- directed Order Flow Cladel Securities LLC(ORD) JANE STREET CAPITAL, LLC(INST) USE Securities LLC(INST) USE Securities Exchange(EDGX) Favilies Exchange(EDGX) Two Sigma Securities LLC(INST) LLC(INST) LLC(INST) LLC(INST) Securities LLC(INST) LLC(I	Orders as % of All Orders 100.00	76 Non-Directed Orders(%) 43.86 28.95 7.02 5.26 4.39 4.39 2.63	Market Orders 68.47 Market Orders 38 21 8 4 0 0 0 0 3	Market Orders(%) 50.00 27.63 10.53 5.26 0.00 3.95	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders 0 0 0 0 0 0 0	Marketable Limit Orders(%) 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Non-Marketable Limit Orders 2 4 0 0 0 0 0 0 0 0	Non-Marketable Limit Orders(%) 11.7. 23.5. 0.00 29.4. 29.4. 0.00 0.00 0.00	Other Orders	Other Orders(%) 45.00 0.00 10.00 0.00 0.00 0.00 0.00	Paid/Received for Market Orders(USD)	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Venue - Non- directed Order Flow Cindel Securities LLC(ORG) WRIT Americas, LLC(NIT) JAME STREET CAPITAL, LLC(JNST) USS Securities, LLC(UNST) USS Securities Exchange(EGX) NASDAQ Execution Services, LLC(NSDQ) Two Sigma Securities, LLC(SDQ) Two Sigma Securities LLC(SDQ) Two Sigma Securities LLC(SDQ) Two Sigma Securities LLC(SDQ) Two Sigma Securities LLC(SDQ) NASDAQ Execution Services, LLC(SDQ) NASDAQ Execution Services, LLC(SDQ) New York Stock Exchange(NYSE) July 2021	Orders as % of All Orders 100.00	76 Non-Directed Orders(%) 43.86 28.95 7.02 5.26 4.39 4.39 2.63	Market Orders 68.47 Market Orders 38 21 8 4 0 0 0 0 3	Market Orders(%) 50.00 27.63 10.53 5.26 0.00 3.95	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders 0 0 0 0 0 0 0	Marketable Limit Orders(%) 100.00 0.00	Non-Marketable Limit Orders 2 4 0 0 0 0 0 0 0 0	Non-Marketable Limit Orders(%) 11.7: 23.5: 0.00 0.01 29.4: 29.4: 0.00	Other Orders	Other Orders(%) 45.00 40.00 10.00 0.00 0.00	Paid/Received for Market Orders(USD)	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Venue - Non- directed Order Flow (Chadel Securities LLE(CDRG) VIRTU Americas, LLE(NITE) JANE STREET CANTAL, LLC(JINST) URS Securities, LLE(JUSS) Choe EDOX US Exchange(EDOX) NASDAQ Execution Services, LLE(NSDQ) Two Signa Securities, LLE(SDHQ) G1 Execution Services, LLE(ETMM) Instinct BlockCros(BLOX) New York Stock Exchange(WSE) July 2021. Delption Contracts	Orders as % of All Orders 100.00	76 Non-Directed Orders(%) 43.86 28.95 7.02 5.26 4.39 4.39 2.63	Market Orders 68.47 Market Orders 38 21 8 4 0 0 0 0 3	Market Orders(%) 50.00 27.63 10.53 5.26 0.00 3.95	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders 0 0 0 0 0 0 0	Marketable Limit Orders(%) 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Non-Marketable Limit Orders 2 4 0 0 0 0 0 0 0 0	Non-Marketable Limit Orders(%) 11.7. 23.5. 0.00 29.4. 29.4. 0.00 0.00 0.00	Other Orders	Other Orders(%) 45.00 0.00 10.00 0.00 0.00 0.00 0.00	Paid/Received for Market Orders(USD)	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Venue - Non- directed Order Flow Cindel Securities LLC(ORG) VRTU Americas, LLC(NIT) JAME STREET CAPITAL, LLC(JNST) USS Securities, LLC(NIST) USS Securities Exchange(EGX) NASDAQ Execution Services, LLC(NSDQ) Two Sigma Securities, LLC(SSDQ) Two Sigma Securities LLC(SSDQ) Two Sigma Securities LLC(SSDQ) Two Sigma Securities LLC(SSDQ) Two Sigma Securities LLC(SSDQ) NASDAQ Execution Services, LLC(SSDQ) NASDAQ Execution Services, LLC(SSDQ) New York Stock Exchange(NYSE) July 2021	Orders as % of All Orders 100.00	76 Non-Directed Orders(%) 43.86 28.95 7.02 5.26 4.39 4.39 2.63	Market Orders 68.47 Market Orders 38 21 8 4 0 0 0 0 3	Market Orders(%) 50.00 27.63 10.53 5.26 0.00 3.95	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders 0 0 0 0 0 0 0	Marketable Limit Orders(%) 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Non-Marketable Limit Orders 2 4 0 0 0 0 13.51	Non-Marketable Limit Orders(%) 11.7. 23.5. 0.00 29.4. 29.4. 0.00 0.00 0.00	Other Orders	Other Orders(%) 45.00 0.00 10.00 0.00 0.00 0.00 0.00	Paid/Received for Market Orders(USD)	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Venue - Non- directed Order Flow (Chadel Securities LLE(CDRG) VIRTU Americas, LLE(NITE) JANE STREET CANTAL, LLC(JINST) URS Securities, LLE(JUSS) Choe EDOX US Exchange(EDOX) NASDAQ Execution Services, LLE(NSDQ) Two Signa Securities, LLE(SDHQ) G1 Execution Services, LLE(ETMM) Instinct BlockCros(BLOX) New York Stock Exchange(WSE) July 2021. Delption Contracts	Orders as % of All Orders 100.00	76 Non-Directed Orders(%) 43.86 28.95 7.02 5.26 4.39 4.39 2.63	Market Orders 68.47 Market Orders 38 21 8 4 0 0 0 0 3	Market Orders(%) 50.00 27.63 10.53 5.26 0.00 3.95	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders 0 0 0 0 0 0 0	Marketable Limit Orders(%) 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Non-Marketable Limit Orders 2 4 0 0 0 0 0 0 0 0	Non-Marketable Limit Orders(%) 11.7. 23.5. 0.00 29.4. 29.4. 0.00 0.00 0.00	Other Orders	Other Orders(%) 45.00 0.00 10.00 0.00 0.00 0.00 0.00	Paid/Received for Market Orders(USD)	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Venue - Non- directed Order Flow (Chadel Securities LLE(ORG) VIRTU Americas, LLE(NITE) JANE STREET CAPITAL, LLE(JINST) UBS Securities, LLE(UBSS) Choe EDOX US Equilies Exchange(EDOX) Two Signa Services, LLE(INSDQ) Two Signa Securities, LLE(SOHO) G1 Execution Services, LLE(ETEMM) Instinet BiockCross(BLOX) New York Stock Exchange(NYSE) July 2021 Option Contracts Summary Total Non-Directed	Orders as % of All Orders 100.00 10	Non-Directed Orders(%) 43.86 28.95 7.02 5.26 4.39 4.39 2.63 1.75 0.88 0.88	Market Orders 88.47 Market Orders 8 4 0 0 0 Market Orders 8 4 Market Orders 8 4 Market Orders 0 0 0 0 0 0 0 0 0 0 0 0 0	Market Orders(%) 50.00 27.63 10.53 5.26 0.00 2.63 0.00 0.00 Total Marketable	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Marketable Limit Orders(%) 100.00 0.00	Non-Directed Orders 13.51 Non-Marketable Limit Orders 5 0 0 0 0 1 Non-Marketable Limit Orders 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Non-Marketable Limit Orders(%) 11.77 23.5: 0.00 29.4: 29.4: 0.00 0.00 5.8:	Other Orders Other Orders as % of Non-Directed	Other Orders(%) 45.00 0.00 10.00 0.00 0.00 0.00 0.00	Paid/Received for Market Orders(USD)	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Venue - Non- directed Order Flow Cinded Securities LLC(ORG) WRITU Ammericas, LLC(NITE) JAME STREET CAPITAL, LLC(JNST) URS Securities, LLC(NITE) JAME STREET CAPITAL, LLC(JNST) URS Securities Exchange(EGX) NASDAQ Execution Services, LLC(NSDQ) Two Sigma Securities, LLC(SDQ) Two Sigma Securities, LLC(SDQ) Two Sigma Securities, LLC(SDQ) Resecution Services, LLC(ETMIM) BinckCross(BLUX) BinckCross(BLU	Orders as % of All Orders 100.00 Non-Directed Orders 50 33 8 6 6 5 5 5 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1	76 Non-Directed Orders(%) 43.86 28.95 7.02 5.26 4.39 2.63 1.75 0.88 0.88	Market Orders 88.47 Market Orders 8 21 0 0 Market Orders as % of Non-Directed Orders	Market Orders(%) 50.00 27.63 10.53 5.26 0.00 3.95 2.63 0.00	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders 0 0 0 0 Marketable Limit Orders as % of Non- Directed Orders	Marketable Limit Orders(%) 100.00 0.00	Non-Marketable Limit Orders 2 4 0 0 0 13.51	Non-Marketable Umit Orders(%) 11.7 23.5: 0.00 29.4: 29.4: 0.00 0.00 5.8i	of Non-Directed Orders 17.12 Other Orders 8 8 8 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Other Orders(%) 45.00 0.00 10.00 0.00 0.00 0.00 0.00	Paid/Received for Market Orders(USD)	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Orders 111 Venues Venue - Non- directed Order Flow (Chadel Securities LLC(DRG) JANE STREET CAPITAL, LLC(JNST) UBS Securities, LLC(JUSS) Choe EDGX US Exchange(EDGX) WASDAG Execution Services, LLC(NEDQ) WOS Sigma Securities, LLC(SOHO) OBSERVICES, LLC(ETMM) Instinct Exchange(NSE) July 2021 Option Contracts Summary Total Non-Directed Orders 0	Orders as % of All Orders 100.00 10	76 Non-Directed Orders(%) 43.86 28.95 7.02 5.26 4.39 2.63 1.75 0.88 0.88	Market Orders 88.47 Market Orders 8 4 0 0 0 Market Orders 8 4 Market Orders 8 4 Market Orders 0 0 0 0 0 0 0 0 0 0 0 0 0	Market Orders(%) 50.00 27.63 10.53 5.26 0.00 2.63 0.00 0.00 Total Marketable	Orders as % of Non-Directed Orders 0.90 Marketable Limit Orders 0 0 0 0 0 0 0 0 0 0 0 0 0	Marketable Limit Orders(%) 100.00 0.00	Non-Directed Orders 13.51 Non-Marketable Limit Orders 5 0 0 0 0 1 Non-Marketable Limit Orders 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Non-Marketable Umit Orders(%) 11.7 23.5: 0.00 29.4: 29.4: 0.00 0.00 5.8i	Other Orders Other Orders as % of Non-Directed	Other Orders(%) 45.00 0.00 10.00 0.00 0.00 0.00 0.00	Paid/Received for Market Orders(USD)	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Venue - Non- directed Order Flow (Chadel Securities LLE(ORG) VIRTU Americas, LLE(NITE) JANE STREET CAPITAL, LLE(JINST) UBS Securities, LLE(UBSS) Choe EDOX US Equilies Exchange(EDOX) Two Signa Services, LLE(INSDQ) Two Signa Securities, LLE(SOHO) G1 Execution Services, LLE(ETEMM) Instinet BiockCross(BLOX) New York Stock Exchange(NYSE) July 2021 Option Contracts Summary Total Non-Directed	Orders as % of All Orders 100.00 Non-Directed Orders 50 33 8 6 6 5 5 5 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1	76 Non-Directed Orders(%) 43.86 28.95 7.02 5.26 4.39 2.63 1.75 0.88 0.88	Market Orders 88.47 Market Orders 8 21 0 0 Market Orders as % of Non-Directed Orders	Market Orders(%) 50.00 27.63 10.53 5.26 0.00 2.63 0.00 0.00 Total Marketable	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders 0 0 0 0 Marketable Limit Orders as % of Non- Directed Orders	Marketable Limit Orders(%) 100.00 0.00	Non-Marketable Limit Orders 2 4 0 0 0 13.51	Non-Marketable Umit Orders(%) 11.7 23.5: 0.00 29.4: 29.4: 0.00 0.00 5.8i	of Non-Directed Orders 17.12 Other Orders 8 8 8 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Other Orders(%) 45.00 0.00 10.00 0.00 0.00 0.00 0.00	Paid/Received for Market Orders(USD)	Paid Received for Market Orders(cents per hundred shares)	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for	Paid/Received for Other Orders(cents
Orders 111 Venues Venue - Non- directed Order Flow (Chadel Securities LLC(DRG) JANE STREET CAPITAL, LLC(JNST) UBS Securities, LLC(JUSS) Choe EDGX US Exchange(EDGX) WASDAG Execution Services, LLC(NEDQ) WOS Sigma Securities, LLC(SOHO) OBSERVICES, LLC(ETMM) Instinct Exchange(NSE) July 2021 Option Contracts Summary Total Non-Directed Orders 0	Orders as % of All Orders 100.00 Non-Directed Orders 50 33 8 6 6 5 5 5 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1	76 Non-Directed Orders(%) 43.86 28.95 7.02 5.26 4.39 2.63 1.75 0.88 0.88	Market Orders 88.47 Market Orders 8 21 0 0 Market Orders as % of Non-Directed Orders	Market Orders(%) 50.00 27.63 10.53 5.26 0.00 2.63 0.00 0.00 Total Marketable	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders 0 0 0 0 Marketable Limit Orders as % of Non- Directed Orders	Marketable Limit Orders(%) 100.00 0.00	Non-Marketable Limit Orders 2 4 0 0 0 13.51	Non-Marketable Umit Orders(%) 11.7 23.5: 0.00 29.4: 29.4: 0.00 0.00 5.8i	of Non-Directed Orders 17.12 Other Orders 8 8 8 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Other Orders(%) 45.00 0.00 10.00 0.00 0.00 0.00 0.00	Paid/Received for Market Orders(USD)	Paid Received for Market Orders(cents per hundred shares)	Paid/Received for Marketable Limit Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Marketable Linit Orders(cents per hundred shares) 0 0 0 0 0 0 0 0 0 Net Payment	Paid/Received for Mon-Marketable Limit Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Recived for Non-Marketable Limit Orders(cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 New York of the Non-Marketable Limit Orders(cents per hundred shares) 0 0 0 0 0 0 0 New York of the Non-Marketable Limit Orders(cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for	Paid/Received for Other Orders/cents per hundred shares).
Orders 111 Venues Venue - Non- directed Order Flow (Chadel Securities LLC(DRG) JANE STREET CAPITAL, LLC(JNST) UBS Securities, LLC(JUSS) Choe EDGX US Exchange(EDGX) WASDAG Execution Services, LLC(NEDQ) WOS Sigma Securities, LLC(SOHO) OBSERVICES, LLC(ETMM) Instinct Exchange(NSE) July 2021 Option Contracts Summary Total Non-Directed Orders 0	Orders as % of All Orders 100.00 Non-Directed Orders 50 33 8 6 6 5 5 5 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1	76 Non-Directed Orders(%) 43.86 28.95 7.02 5.26 4.39 2.63 1.75 0.88 0.88	Market Orders 88.47 Market Orders 8 21 0 0 Market Orders as % of Non-Directed Orders	Market Orders(%) 50.00 27.63 10.53 5.26 0.00 2.63 0.00 0.00 Total Marketable	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders 0 0 0 0 Marketable Limit Orders as % of Non- Directed Orders	Marketable Limit Orders(%) 100.00 0.00	Non-Marketable Limit Orders 2 4 0 0 0 13.51	Non-Marketable Umit Orders(%) 11.7 23.5: 0.00 29.4: 29.4: 0.00 0.00 5.8i	of Non-Directed Orders 17.12 Other Orders 8 8 8 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Other Orders(%) 45.00 0.00 10.00 0.00 0.00 0.00 0.00	Paid/Received for Market Orders(USD)	Paid/Received for Market Orders(cents per hundred shares) () () () () () () () () () () () () (Paid/Received for Marketable Limit Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Paid/Received for Net Payment Paid/Received for	Paid/Received for Mon-Marketable Limit Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 Net Payment	Paid/Received for Paid Neel Payment Paid/Received for	Paid/Received for Other Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Other Orders/cents per hundred shares] 0 0 0 0 0 0 0 0 0 0 0 Net Payment
Orders 111 Venues Venue - Non- directed Order Flow (Chadel Securities LLC(DRG) JANE STREET CAPITAL, LLC(JNST) UBS Securities, LLC(JUSS) Choe EDGX US Exchange(EDGX) WASDAG Execution Services, LLC(NEDQ) WOS Sigma Securities, LLC(SOHO) OBSERVICES, LLC(ETMM) Instinct Exchange(NSE) July 2021 Option Contracts Summary Total Non-Directed Orders 0	Orders as % of All Orders 100.00 Non-Directed Orders 50 33 8 6 6 5 5 5 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1	76 Non-Directed Orders(%) 43.86 28.95 7.02 5.26 4.39 2.63 1.75 0.88 0.88	Market Orders 88.47 Market Orders 8 21 0 0 Market Orders as % of Non-Directed Orders	Market Orders(%) 50.00 27.63 10.53 5.26 0.00 2.63 0.00 0.00 Total Marketable	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders 0 0 0 0 Marketable Limit Orders as % of Non- Directed Orders	Marketable Limit Orders(%) 100.00 0.00	Non-Marketable Limit Orders 2 4 0 0 0 13.51	Non-Marketable Umit Orders(%) 11.7 23.5: 0.00 29.4: 29.4: 0.00 0.00 5.8i	of Non-Directed Orders 17.12 Other Orders 8 8 8 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Other Orders(%) 45.00 0.00 10.00 0.00 0.00 0.00 0.00	Pald/Received for Market Orders(USD)	Paid Received for Market Orders(cents per hundred shares)	Paid/Received for Marketable Limit Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Marketable Linit Orders(cents per hundred shares) 0 0 0 0 0 0 0 0 0 Net Payment	Paid/Received for Mon-Marketable Limit Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Recived for Non-Marketable Limit Orders(cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Other Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 Net Payment	Paid/Received for Other Orders(cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0
Orders 111 Venues Venue - Non- directed Order Flow Citadel Securities LLC(DNR) VIRTU Americas, LLC(NNT) LLC(N	Orders as % of All Orders Non-Directed Orders 50 33 8 6 5 5 10 10 Non-Directed Orders As % of All Orders As % of All Orders O.00 Non-Directed Orders As % of All Orders Non-Directed Orders Non-Directed Orders Non-Directed Orders Non-Directed Orders Non-Directed Non-Di	76 Non-Directed Orders(%) 43.86 28.95 7.02 5.26 4.39 4.39 2.63 1.75 0.88 0.88	Market Orders 88.47 Market Orders 8 21 8 4 0 0 0 3 2 0 0 Market Orders as % of Non-Directed Orders 0.00	Market Orders(%) 50.00 27.63 10.53 5.26 0.00 2.63 0.00 0.00 Total Marketable	Orders as % of Non- Directed Orders 0.90 Marketable Limit Orders 0 0 0 0 0 0 Marketable Limit Orders as % of Non- Directed Orders 0.00 Marketable Limit Orders as % of Non- Directed Orders 0.00	Marketable Limit Orders(%) 100.00 0.00	Non-Directed Orders 13.51 Non-Marketable Limit Orders 2 4 0 0 1 5 0 0 1 1 Non-Marketable Limit Orders S 5 0 0 0 0 0 0 0 0 0 0 0 0	Non-Marketable Limit Orders(%) 11.7 23.5: 0.00 29.4 29.4 0.00 0.00 5.8:	of Non-Directed Orders 17.12 Other Orders 8 8 8 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Other Orders(%) 45.00 40.00 10.00 0.00 0.00 0.00 0.00	Pald/Received for Market Orders(USD)	Paid/Received for Market Orders(cents per hundred shares) ((((((((((((((((((Paid/Received for Paid Received for Paid Received for Paid Received for	Paid/Received for Marketable Linit Orders(cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for On-Marketable Limit Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Recived for Non-Marketable Limit Orders(cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Other Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 Net Payment Paid/Received for	Paid/Received for Other Orders/cents per hundred shares] 0 0 0 0 0 0 0 0 0 0 0 0 0 Net Payment Paid/Received for Other Orders/cents

Part	August 2021																		
Property State Prop																			
Part																			
No. 1. No	Total Non-Directed Orders	Orders as % of All Orders	Total Market Orders	of Non-Directed Orders	Limit Orders	Orders as % of Non- Directed Orders	Total Non-Marketable Limit Orders	Limit Orders as % of Non-Directed Orders	Total Other Orders	of Non-Directed Orders									
Part		100.00	49	81.07		0.00	,	15.00		3.33									
Control Cont	directed Order Flow New York Stock		Orders(%)	Market Orders					Limit Orders(%)	Other Orders		Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Column	Citadel Securities					Ü							1	1			1		
Mary Column		28	24.56	26	53.06	0	0.00	2	3.17		0.00	0	0	0	0	0	0	0	0
NATIONAL PROPERTY OF THE PROPE	LLC(NITE)	14	12.28	13	26.53	0	0.00	1	1.59		0.00	0		0				0	
Marche M	NASDAQ Execution	100	0 77		0.00		0.00	100	15.0		0.00								
Martine Mart		- 10	0.77		0.00		0.00	10	15.8	۰	0.00			,			1		
Separation Sep	CAPITAL, LLC(JNST) Cboe EDGX US	6	5.26	5	10.20	0	0.00	1	1.59	0	0.00	0	0	0	0	O	0	0	0
Marche M	Exchange(EDGX)	5	4.39	0	0.00	0	0.00	5	7.94	. 0	0.00	0	0	0	0	C	0	0	0
Section Sect	UBS Securities, LLC(UBSS)	4	3.51	2	4.08	0	0.00	0	0.00	2	100.00	0	0	0	0	C	0	0	0
March Marc	G1 Execution Services, LLC(ETMM)	2	1.75	1	2.04	0	0.00	1	1.59		0.00			ه ا					
Marie Name	Two Sigma																		
Marie Mari		2	1.75	2	4.08	0	0.00	0	0.00	0	0.00	0						0	
State Stat	August 2021																		
State Stat																			
Part																			
Mathematical Math	Julillary																		
Section Sect	Orders	Orders as % of All Orders	Total Market Orders	of Non-Directed Orders	Limit Orders	Orders as % of Non- Directed Orders	Total Non-Marketable Limit Orders	Non-Directed Orders	Total Other Orders	of Non-Directed Orders									
Part		100.00	63	53.39	0	0.00	12	10.17	43	36.44									
WITH CAPPING September S																			
Light Ligh	directed Order Flow Citadel Securities	Non-Directed Orders	Orders(%)	Market Orders		Marketable Limit Orders			Limit Orders(%)			Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Equation Control Con	directed Order Flow Citadel Securities LLC(CDRG)	Non-Directed Orders	Orders(%)	Market Orders		Marketable Limit Orders			Limit Orders(%)			Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Country Coun	directed Order Flow Citadel Securities LLC(CDRG) VIRTU Americas, LLC(NITE)	Non-Directed Orders 47	Orders(%) 36.43	Market Orders 31	49.21	Marketable Limit Orders	0.00		Limit Orders(%)		37.21	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
USS SCHOOL S S S S S S S S S	directed Order Flow Citadel Securities LLC(CDRG) VIRTU Americas, LLC(NITE) Cboe EDGX US Equities	Non-Directed Orders 47	Orders(%) 36.43 34.11	Market Orders 31 19	49.21 30.16	0 0	0.00	Limit Orders	0.00 0.00	25	37.21 58.14	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
ModRAD Rescription Services (LISSING) 4 3.10 0 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	directed Order Flow Citadel Securities LLC(CDRG) VIRTU Americas, LLC(NITE) Cboe EDGX US Equities Exchange(EDGX)	Non-Directed Orders 47 44	Orders(%) 36.43 34.11 11.63	Market Orders 31 19	49.21 30.16 0.00	0 0	0.00	Limit Orders	0.00 0.00 65.22	25	37.21 58.14 0.00	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Services (LIGISDO)	directed Order Flow Citadel Securities LLC(CDRG) VIRTU Americas, LLC(NITE) Choe EDGX US Equities Exchange(EDGX) JANE STREET CAPITAL, LLC(JINST) UBS Securities,	Non-Directed Orders 47 44 15	36.43 34.11 11.63	Market Orders 31 19 0	49.21 30.16 0.00	0 0	0.00	Limit Orders	Umit Orders(%) 0.00 0.00 65.22	25	37.21 58.14 0.00	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Exhange(NYSE)	directed Order Flow Citadel Securities LLC(CDRG) VIRTU Americas, LLC(NITE) Choe EDGX US Equities Exchange(EDGX) JANE STREET CAPITAL, LLC(JINST) UBS Securities,	Non-Directed Orders 47 44 15	36.43 34.11 11.63	Market Orders	49.21 30.16 0.00	0 0	0.00	Limit Orders	Umit Orders(%) 0.00 0.00 65.22	25	37.21 58.14 0.00	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
G1 Execution Services, LIGETMMN 3 2.33 3 4.76 0 0.0.0 0 0.0.0 0 0.0.0 0 0 0 0 0 0 0	directed Order Flow Citadel Securities LLC(CDRG) VIRTU Americas, LLC(NITE) Choe EDGX US Equities Exchange(EDGX) JANE STREET CAPITAL, LLC(INST) USB Securities, LLC(UBSS) NASDAQ Execution Services, LLC(NSDQ)	Non-Directed Orders	36.43 36.43 11.63 12.63 3.88	Market Orders 31 19 0 7 3 3 0 0	49.21 30.16 0.00 11.11 4.76	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00 0.00 0.00	Limit Orders	0.00 0.00 0.00 0.00 0.00	25	37.21 58.14 0.00 0.00	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Option Contracts	directed Order Flow Cinded Security URTU Americas, LLC(NITE) Choe EDGX US Equitles ExchangEEDGX JANE STREET CAPITAL LLC(INST) UBS Securities, LLC(UBSS) NASDAQ Execution Services, LLC(INST) New York Stock	Non-Directed Orders	0rders(%) 36.43 34.11 11.63 5.43 3.88	Market Orders 31 19 0 7 7 3 3 0 0 0 0 0	49.21 30.16 0.00 11.11 4.76	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00 0.00 0.00	Limit Orders	0.00 0.00 0.00 0.00 17.35	0 16	37.21 58.14 0.00 0.00 4.65	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Summary Summ	directed Order Flow Citadel Securities LLC(CNRG) VIRTU Americas, LLC(NITE) Choe EDGX US Equities Exchange(EDGX) AANE STREET CAPITAL, LLC(INST) UBS Securities, LLC(UBSS) NASDAQ Execution Services, LLC(INSTQ) G1 Execution Services, LLC(INSTQ) G2 Execution Services, LLC(IETMM)	Non-Directed Orders	Orders(%) 36.43 34.11 11.63 5.43 3.88	31 19 0 7 3 3	49.21 30.16 0.00 11.11 4.76 0.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00 0.00 0.00 0.00	Limit Orders	Umit Orders(%) 0.00 0.00 65.22 0.00 17.35	0 0 0	37.21 58.14 0.00 0.00 4.65	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Non-Directed Orders as % of All	directed Order Flow Citadel Securities LLC(CMR) VIRTU Americas, LLC(MITE) Choe EDGX US Equities Exchange(EDGX) JANE STREET CAPITAL, LLC(INST) UBS Securities, LLC(UBSS) NASDAQ Execution Services, LLC(INSDQ) New York Stock Exchange(NYSE) G1 Execution Services, LLC(IFMM) August 2021	Non-Directed Orders	Orders(%) 36.43 34.11 11.63 5.43 3.88	31 19 0 7 3 3	49.21 30.16 0.00 11.11 4.76 0.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00 0.00 0.00 0.00	Limit Orders	Umit Orders(%) 0.00 0.00 65.22 0.00 17.35	0 0 0	37.21 58.14 0.00 0.00 4.65	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Venues Venue Venue	directed Order Flow Cinded Securities LLC(COMG) VINTU Americas, LLC(ONTE) VINTU Americas, LLC(ONTE) JANE STREET CAPITAL, LLC(INST) USS Securities, LLC(ONSS) NASDAG Execution Services, LLC(INSDQ) New York Stock Exchange(NYSE) G1 Execution Services, LLC(INSDQ) ORD Services	Non-Directed Orders	Orders(%) 36.43 34.11 11.63 5.43 3.88	31 19 0 7 3 3	49.21 30.16 0.00 11.11 4.76 0.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00 0.00 0.00 0.00	Limit Orders	Umit Orders(%) 0.00 0.00 65.22 0.00 17.35	0 0 0	37.21 58.14 0.00 0.00 4.65	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Non-Directed Order Flow Orders Orders (%) Sappenber 2021 Sap 500 Stocks Summary Non-Directed of Non-Directed of Orders as % of All Orders as % of All Orders as % of Non-Directed of Orders as % of All Orders as % of Non-Directed of Orders as % of Non-Directed orders as % of Non-Directed orders as % of Non-Directed orders as % of All orders as % of Non-Directed order as % of Non-Directed orders as % of Non-Directed order as % of Non-Directed	directed Order Flow Cinded Securities LLC(CIME) VIRTU Americas, LLC(IME) VIRTU Americas, LLC(IME) JANE STREET CAPITAL, LLC(INST) JANE STREET CAPITAL, LLC(INST) JANE STREET CAPITAL, LLC(INST) NASDAG Execution Services, LLC(INSDO) New York Stock Exchange(INYSE) G1 Execution Services, LLC(IRMDO) Option Contracts Summary Total Non-Directed	7 44 4 4 4 4 Non-Directed Orders as % of All Orders	Orders(%) 36.43 34.11 11.63 5.43 3.88 3.10 2.33	33 39 00 77 33 00 00 Market Orders as % of Non-Directed Orders	49.21 30.16 0.00 11.11 4.76 0.00 0.00 4.76 Total Marketable	Orders 0 0 0 0 0 0 0 0 0 Marketable Limit Orders as % of Non-Directed Orders	0.00 0.00 0.00 0.00 0.00 0.00 0.00	Umit Orders 0 0 15 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Umit Orders(%) 0.00 0.00 65.2: 0.00 17.33 17.35 0.00 Total Other Orders	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	37.21 58.14 0.00 0.00 4.65 0.00 0.00	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Summary	directed Order Flow Cinded Securities LLC(CIME) VIRTU Americas, LLC(INIT) VIRTU Americas, LLC(INIT) JANE STREET CAPITAL, LLC(INIT) JANE STREET CAPITAL, LLC(INIT) JANE STREET CAPITAL, LLC(INIST) JANE STREET CAPITAL JANE STREET JANE STR	7 44 4 4 4 4 Non-Directed Orders as % of All Orders	Orders(%) 36.43 34.11 11.63 5.43 3.88 3.10 2.33	33 39 00 77 33 00 00 Market Orders as % of Non-Directed Orders	49.21 30.16 0.00 11.11 4.76 0.00 0.00 4.76 Total Marketable	Orders 0 0 0 0 0 0 0 0 0 Marketable Limit Orders as % of Non-Directed Orders	0.00 0.00 0.00 0.00 0.00 0.00 0.00	Umit Orders 0 0 15 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Umit Orders(%) 0.00 0.00 65.2: 0.00 17.33 17.35 0.00 Total Other Orders	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	37.21 58.14 0.00 0.00 4.65 0.00 0.00	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Non-Directed Market Orders as % of All of Non-Directed Orders as % of All of Non-Directed Orders as % of All of Non-Directed Orders as % of No	directed Order Flow Cinded Securities LLC(CMG) VIRTU Americas, LLC(NRT) VIRTU American, LLC(NRT)	47	Orders(%) 36.43 34.11 11.63 5.43 3.88 3.10 2.33 Total Market Orders 0	31 99 0 7 3 0 0 0 3 Market Orders as % of Non-Directed Orders 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	49.21 30.16 0.00 11.11 4.76 0.00 0.00 1.00 1.00 0.00 0.00 0.00 0.0	Orders 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Marketable Limit Orders as % of Non-Directed Orders 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	Limit Orders 0 0 15 15 0 0 4 4 4 0 0 Non-Marketable Limit Orders as % of Non-Directed Orders 0.000	Umit Orders(%) 0.00 0.00 65.2: 0.00 17.33 17.33 17.30 Total Other Orders	Other Orders as % of Non-Directed Orders 0.00	37.21 58.14 0.00 0.00 4.65 0.00 0.00	Paid/Received for Market Orders(US) 0 0 0 0 0 0 0 Net Payment Paid/Received for	Paid/Received for Market Orders(cents per hundred shares) C C C C C C C C C C C C C	Padd/Received for Marketable Limit Orders(USD) 0 0 0 0 0 0 Net Payment Paddreceived for Paddreceived for Marketable Limit Marketable Li	Paid/Received for Marketable Limit Orders/cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for On-Marketable Limit Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Non-Marketable Limit Orders(cents per hundred shares) 0 0 0 0 0 0 0 Net Payment Paid/Received for Non-Marketable Limit Unit Orders(cents per hundred shares)	Paid/Received for Other Orders(USD) 0 0 0 0 0 0 0 0 0 Net Payment Paid/Received for	Paid/Received for Other Orders(ents per hundred shares) 0 0 0 0 0 0 0 0 0
Orders Orders Total Market Orders Orders Total Market Orders Orders United Orders United Orders United Orders United Orders	directed Order Flow Cinded Security Cinded Sec	47	Orders(%) 36.43 34.11 11.63 5.43 3.88 3.10 2.33 Total Market Orders 0	31 99 0 7 3 0 0 0 3 Market Orders as % of Non-Directed Orders 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	49.21 30.16 0.00 11.11 4.76 0.00 0.00 1.00 1.00 0.00 0.00 0.00 0.0	Orders 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Marketable Limit Orders as % of Non-Directed Orders 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	Limit Orders 0 0 15 15 0 0 4 4 4 0 0 Non-Marketable Limit Orders as % of Non-Directed Orders 0.000	Umit Orders(%) 0.00 0.00 65.2: 0.00 17.33 17.33 17.30 Total Other Orders	Other Orders as % of Non-Directed Orders 0.00	37.21 58.14 0.00 0.00 4.65 0.00 0.00	Paid/Received for Market Orders(US) 0 0 0 0 0 0 0 Net Payment Paid/Received for	Paid/Received for Market Orders(cents per hundred shares) C C C C C C C C C C C C C	Padd/Received for Marketable Limit Orders(USD) 0 0 0 0 0 0 Net Payment Paddreceived for Paddreceived for Marketable Limit Marketable Li	Paid/Received for Marketable Limit Orders/cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for On-Marketable Limit Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Non-Marketable Limit Orders(cents per hundred shares) 0 0 0 0 0 0 0 Net Payment Paid/Received for Non-Marketable Limit Unit Orders(cents per hundred shares)	Paid/Received for Other Orders(USD) 0 0 0 0 0 0 0 0 0 Net Payment Paid/Received for	Paid/Received for Other Orders(ents per hundred shares) 0 0 0 0 0 0 0 Net Payment Paid/Received for Other Orders(ents per hundred shares)

				_														
52	100.00	42	80.77	0	0.00	7	13.46	3	5.77	 		+	+					
Venues Venue - Non- directed Order Flow New York Stock	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)	Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders	Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%)	Net Payment Paid/Received for Market Orders(USD	Net Payment Paid/Received for Market Orders(cents per D) hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)			Net Payment Paid/Received for Other Orders(cents per hundred shares)
Exchange(NYSE)	22	28.95	0	0.00		0.00	22	70.97	0	0.00	ء ار	0 0	ه اد	, ,	o e	0		اه اد
Citadel Securities																		
LLC(CDRG) VIRTU Americas,	20	26.32	17	40.48		0.00	2	6.45	1	33.33	+	0 0	1 0		1 0		0	0
LLC(NITE)	15	19.74	14	33.33		0.00	1	3.23	0	0.00	-	0 0	<u>)</u> 0	- 0	2 0	. 0	0	0
JANE STREET CAPITAL, LLC(JNST)	9	11.84	8	19.05		0.00	1	3.23	0	0.00)	0 0	0	, ,				3 0
UBS Securities, LLC(UBSS)		5.26	_	2.38		0.00		3.23		66.67								
Two Sigma	4	5.20	1	2.30	+	0.00		3.23		66.67		+	+		1			*************************************
Securities,																		
LLC(SOHO)	3	3.95	2	4.76	- 0	0.00	1	3.23	0	0.00	+	0 0		+°	1 0	- 0	0	1 0
NASDAQ Execution																		
Services, LLC(NSDQ) Choe EDGX US	2	2.63	0	0.00	0	0.00	2	6.45	0	0.00	4	0 0	1 0		, 0			1 0
Equities									1	1								
Exchange(EDGX)	1	1.32	0	0.00		0.00	1	3.23	0	0.00		0 0	1 0	c) 0	. 0	0) 0
September 2021				+	+	+					+	+	+		+	+		+
Non-S&P 500 Stocks																		
Summary				+	+		Non-Marketable				+	+	+		+	+		+'
Total Non-Directed	Non-Directed Orders as % of All Orders	Total Market Orders	Market Orders as % of Non-Directed	Total Marketable Limit Orders	Marketable Limit Orders as % of Non- Directed Orders	Total Non-Marketable Limit Orders	Limit Orders as % of Non-Directed Orders		Other Orders as % of Non-Directed									
125	100.00	68		J Imit Orders	7 5.60			38				+	+					
Venues																		
Venue - Non- directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)	Marketable Limit	Marketable Limit Orders(%)	Non-Marketable Limit Orders	Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%)	Net Payment Paid/Received for Market Orders(USD	Net Payment Paid/Received for Market Orders(cents per) hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)		Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Citadel Securities LLC(CDRG)	52	40.94	32	47.06		57.14		0.00	16	41.03		0 (0				0	0
VIRTU Americas, LLC(NITE)	38	29.92	18	26.47	г з	42.86	, 0	0.00	17	43.59	, ,	0 0	0	, ,	0			0
JANE STREET CAPITAL, LLC(JNST)	12	9.45	12	17.65		0.00		0.00		0.00		0			,		,	
Choe EDGX US	- 12	9.43	12	17.03		0.00		0.00		0.00	<u> </u>	+	1		+			+
Equities																		
Exchange(EDGX) UBS Securities,	10	7.87	0	0.00	-	0.00	10	76.92	0	0.00	+	0	+ 0	- 0	1 0		- 0	1 0
LLC(UBSS)	7	5.51	2	2.94	٠	0.00	0	0.00	5	12.82	1 1	0 0) 0) 0	, e	. е) 0
Two Sigma Securities																		
LLC(SOHO)	4	3.15	3	3 4.41	. 0	0.00	1	7.69	0	0.00	+	0 0	, 0	С С) 0	-	-	, 0
NASDAQ Execution									1									
Services, LLC(NSDQ)	2	1.57	0	0.00	, ,	0.00	2	15.38	0	0.00	,	0 0	0	c	o e		0	0
Instinet BlockCross(BLKX)		0.79		0.00	, ,	0.00		0.00		2.56						,		
		0.79		0.00	†	0.00		0.00		2.30	<u> </u>	Ť - °			T	T		1
G1 Execution Services, LLC(ETMM)		0.79	_	1.47	,	0.00	,	0.00		0.00						, .		
September 2021	1	0.79	1	1.47	+ 0	0.00		0.00	- 0	0.00	<u> </u>	1 0	+ 0	°	+ 0	† • • • • • • • • • • • • • • • • • • •	- 0	+ 0
												T	1		T			
Option Contracts Summary				+	+	+	 	 			+	+	+	 	+			+
Total Non-Directed	Non-Directed Orders as % of All Orders	Total Market Orders	Market Orders as % of Non-Directed Orders		Marketable Limit Orders as % of Non- Directed Orders	Total Non-Marketable Limit Orders	Non-Marketable Limit Orders as % of Non-Directed Orders		Other Orders as % of Non-Directed Orders									
0	0.00		0.00		0.00		0.00	0	0.00									
Venues				+	+	+					+	+	+		+			+
												Net Payment Paid/Received for	N	Net Payment Paid/Received for	Net Payment	Net Payment Paid/Received for		Net Payment
Venue - Non-	Non-Directed	Non-Directed			Marketable Limit		Non-Marketable	Non-Marketable			Net Payment Paid/Received for	Market Orders(cents per	Net Payment Paid/Received for Marketable Limit	Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Non-Marketable		Paid/Received for Other Orders(cents