

Executed transactions

Class of Instrument	Debt Instruments: Bonds				
Client Type	Professional				
Traded on a venue	On				
Notification if < 1 average trade per business day in the previous year	No				
	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Top 5 Venues ranked in terms of volume (descending order)					
Tradeweb Europe Ltd (2138001WXZQOPMPA3D50)	100.0%	100.0%	na	na	na
na	na	na	na	na	na
na	na	na	na	na	na
na	na	na	na	na	na
na	na	na	na	na	na

Debt Instruments: Bonds/Professional/On Venue – Counterparty breakdown

Class of Instrument	Debt Instruments: Bonds				
Client Type	Professional				
Traded on a venue	On				
Notification if < 1 average trade per business day in the previous year	No				
	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Top 5 Venues ranked in terms of volume (descending order)					
Nomura (DGQCSV2PHVF712743539)	13.9%	10.6%	na	na	na
JP Morgan (K6Q0W1PS1L1O4IQL9C32)	12.7%	13.7%	na	na	na
Wells Fargo (BWS7DNS2Z4NPKPNYKL75)	11.4%	2.2%	na	na	na
Citigroup (DLEP71J34FBYRCZ61289)	8.6%	5.4%	na	na	na
Morgan Stanley (4PQUHN3JPFQFN3BB653)	8.5%	10.3%	na	na	na

Class of Instrument	Debt Instruments: Bonds				
Client Type	Professional				
Traded on a venue	Off				
Notification if < 1 average trade per business day in the previous year	No				
	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Top 5 Venues ranked in terms of volume (descending order)					
HSBC (MP615ZYZBEU3UXPYFY54)	60.2%	50.0%	n/a	n/a	n/a
JP Morgan (K6Q0W1PS1L1O4IQL9C32)	18.4%	6.3%	n/a	n/a	n/a
Jefferies (S5THZMDUJCTQZBTRV198)	9.7%	18.8%	n/a	n/a	n/a
Goldman Sachs (W22LROWP2IHZNBB6K528)	6.6%	12.5%	n/a	n/a	n/a
Barclays Capital (G5GSEF7VJP517OUK5573)	3.7%	6.3%	n/a	n/a	n/a

Class of Instrument	Debt Instruments: Bonds				
Client Type	Retail				
Traded on a venue	On				
Notification if < 1 average trade per business day in the previous year	No				

Top 5 Venues ranked in terms of volume (descending order)	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Tradeweb Europe Ltd (2138001WXZQOPMPA3D50)	100.0%	100.0%	na	na	na
na	na	na	na	na	na
na	na	na	na	na	na
na	na	na	na	na	na
na	na	na	na	na	na

Debt Instruments: Bonds/Retail/On Venue – Counterparty breakdown

Class of Instrument	Debt Instruments: Bonds
Client Type	Retail
Traded on a venue	On
Notification if < 1 average trade per business day in the previous year	No

Top 5 Venues ranked in terms of volume (descending order)	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Banco Santander (R83QYRLEMH4ZSHI0L097)	13.0%	14.3%	na	na	na
UBS (BFM8T61CT2L1QCCEMIK50)	12.3%	15.6%	na	na	na
Morgan Stanley (4PQUHN3JPFQFN3BB653)	11.8%	10.2%	na	na	na
HSBC (MP6ISZYBUEU3UXPYFY54)	11.7%	8.6%	na	na	na
JP Morgan (K6Q0W1PS1L1O4IQL9C32)	11.6%	14.4%	na	na	na

Class of Instrument	Debt Instruments: Bonds
Client Type	Retail
Traded on a venue	Off
Notification if < 1 average trade per business day in the previous year	No

Top 5 Venues ranked in terms of volume (descending order)	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Morgan Stanley (4PQUHN3JPFQFN3BB653)	68.8%	22.2%	na	na	na
TD Securities Canada (PT3QB789TSUIDF371261)	22.4%	25.9%	na	na	na
BMO Capital Markets (L64HM9LHPDOS1B9HJC68)	8.8%	51.8%	na	na	na
na	na	na	na	na	na
na	na	na	na	na	na

Interest Rate Derivatives: Swaps, Forwards

Class of Instrument	and other Interest Rate Derivatives
Client Type	Professional
Notification if < 1 average trade per business day in the previous year	No

Top 5 Venues ranked in terms of volume (descending order)	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Barclays Capital (G5GSEF7VJP517OUK5573)	28.4%	31.0%	na	na	na
Natwest Markets (RR3QWICWWIPCS8A4S074)	24.8%	25.0%	na	na	na
Goldman Sachs (W22LROWP2IHZNBB6K528)	16.0%	9.5%	na	na	na
JP Morgan (K6Q0W1PS1L1O4IQL9C32)	16.0%	17.9%	na	na	na
Morgan Stanley (4PQUHN3JPFQFN3BB653)	8.9%	9.5%	na	na	na

Interest Rate Derivatives: Swaps, Forwards and other Interest Rate Derivatives					
Class of Instrument	Retail				
Client Type	No				
Notification if < 1 average trade per business day in the previous year	No				
	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Top 5 Venues ranked in terms of volume (descending order)					
na	na	na	na	na	na
na	na	na	na	na	na
na	na	na	na	na	na
na	na	na	na	na	na
na	na	na	na	na	na

Currency Derivatives: Swaps, Forwards and Other Currency Derivatives					
Class of Instrument	Professional				
Client Type	On				
Traded on a venue	No				
Notification if < 1 average trade per business day in the previous year	No				
	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Top 5 Venues ranked in terms of volume (descending order)					
FXConnect - MTF (549300SQM0MRIF4HE647)	100.0%	100.0%	na	na	na
na	na	na	na	na	na
na	na	na	na	na	na
na	na	na	na	na	na
na	na	na	na	na	na

Currency Derivatives: Swaps, Forwards and Other Currency
Derivatives/Professional/On Venue – Counterparty breakdown

Currency Derivatives: Swaps, Forwards and Other Currency Derivatives					
Class of Instrument	Professional				
Client Type	On				
Traded on a venue	No				
Notification if < 1 average trade per business day in the previous year	No				
	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Top 5 Venues ranked in terms of volume (descending order)					
Bank of New York Mellon (HPFHU0OQ28E4N0NFVK49)	61.2%	29.6%	na	na	na
Pictet (549300GSSPQ1QSKI1376)	26.7%	2.2%	na	na	na
Northern Trust (6PTKHDJ8HDUF78PFWH30)	4.7%	11.1%	na	na	na
National Australia Bank (F8SB4JFBSYQFRQEH3Z21)	2.1%	2.4%	na	na	na
JP Morgan (K6Q0W1PS1L1O4IQL9C32)	1.9%	3.3%	na	na	na

Currency Derivatives: Swaps, Forwards and Other Currency Derivatives						
Class of Instrument	Other Currency Derivatives					
Client Type	Professional					
Traded on a venue	Off					
Notification if < 1 average trade per business day in the previous year	No					
	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders	
Top 5 Venues ranked in terms of volume (descending order)						
Natwest Markets (RR3QWICWWIPCS8A4S074)	31.7%	30.4%	na	na	na	na
JP Morgan (K6Q0W1PS1L1O4IQL9C32)	22.3%	22.7%	na	na	na	na
Barclays Capital (G5GSEF7VJP517OUK5573)	9.5%	12.5%	na	na	na	na
HSBC (MP6I5ZYBUEU3UXPYFY54)	8.5%	4.1%	na	na	na	na
Goldman Sachs (W22LROWP2IHZNBB6K528)	7.2%	7.7%	na	na	na	na

Currency Derivatives: Swaps, Forwards and Other Currency Derivatives						
Class of Instrument	Other Currency Derivatives					
Client Type	Retail					
Traded on a venue	On					
Notification if < 1 average trade per business day in the previous year	No					
	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders	
Top 5 Venues ranked in terms of volume (descending order)						
FXConnect - MTF (549300SQM0MRIF4HE647)	100.0%	100.0%	na	na	na	na
na	na	na	na	na	na	na
na	na	na	na	na	na	na
na	na	na	na	na	na	na
na	na	na	na	na	na	na

Currency Derivatives: Swaps, Forwards and Other Currency Derivatives/Retail/On
Venue – Counterparty breakdown

Currency Derivatives: Swaps, Forwards and Other Currency Derivatives						
Class of Instrument	Other Currency Derivatives					
Client Type	Retail					
Traded on a venue	On					
Notification if < 1 average trade per business day in the previous year	No					
	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders	
Top 5 Venues ranked in terms of volume (descending order)						
Ruffer (Channel Islands) Limited (213800S1VQ7IVP5UUI28)	65.6%	71.7%	na	na	na	na
Bank of New York Mellon (HPFHU0OQ28E4N0NFVK49)	29.7%	21.3%	na	na	na	na
Pictet (549300GSSPQ1QSKI1376)	4.2%	5.2%	na	na	na	na
Northern Trust (6PTKHDJ8HDUF78PFWH30)	0.5%	1.8%	na	na	na	na
na			na	na	na	na

Currency Derivatives: Swaps, Forwards and Other Currency Derivatives					
Class of Instrument	Other Currency Derivatives				
Client Type	Retail				
Traded on a venue	Off				
Notification if < 1 average trade per business day in the previous year	No				
Top 5 Venues ranked in terms of volume (descending order)	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
na	na	na	na	na	na
na	na	na	na	na	na
na	na	na	na	na	na
na	na	na	na	na	na
na	na	na	na	na	na

Equity Derivatives: Swaps and Other Equity Derivatives					
Class of Instrument	Derivatives				
Client Type	Professional				
Notification if < 1 average trade per business day in the previous year	No				
Top 5 Venues ranked in terms of volume (descending order)	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Barclays Capital (G5GSEF7VJP517OUK5573)	33.2%	27.8%	na	na	na
Morgan Stanley (4PQUHN3JPFGFNF3BB653)	28.4%	27.8%	na	na	na
UBS (BFM8T61CT2L1QCEMIK50)	20.8%	27.8%	na	na	na
Goldman Sachs (W22LROWP2IHZNBB6K528)	10.4%	5.6%	na	na	na
Citigroup (XKZZ2JZF41MRHTR1V493)	3.8%	5.6%	na	na	na

Equity Derivatives: Swaps and Other Equity Derivatives					
Class of Instrument	Derivatives				
Client Type	Retail				
Notification if < 1 average trade per business day in the previous year	No				
Top 5 Venues ranked in terms of volume (descending order)	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
na	na	na	na	na	na
na	na	na	na	na	na
na	na	na	na	na	na
na	na	na	na	na	na
na	na	na	na	na	na

Class of Instrument	Other Instruments				
Client Type	Professional				
Notification if < 1 average trade per business day in the previous year	No				
Top 5 Venues ranked in terms of volume (descending order)	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Link Fund Solutions Ltd	66.2%	54.1%	na	na	na
Northern Trust International Fund Administration Services (Guernsey) Limited	23.8%	11.3%	na	na	na
Ocean Dial Asset Management Ltd	5.3%	3.7%	na	na	na
Saba Capital Management	2.3%	10.5%	na	na	na
Ruffer Aifm Ltd	1.6%	1.8%	na	na	na

Class of Instrument	Other Instruments				
Client Type	Retail				
Notification if < 1 average trade per business day in the previous year	No				
Top 5 Venues ranked in terms of volume (descending order)	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Link Fund Solutions Ltd	68.4%	52.8%	na	na	na
Northern Trust International Fund Administration Services (Guernsey) Limited	15.5%	13.3%	na	na	na
Ocean Dial Asset Management Ltd	7.2%	2.2%	na	na	na
Thesis Unit Trust Management Ltd	3.0%	0.1%	na	na	na
Saba Capital Management	2.5%	7.9%	na	na	na

Transmitted transactions

Class of Instrument	Equities – Shares and Depositary Receipts					
Client Type	Professional					
Notification if < 1 average trade per business day in the previous year	No					
Top 5 Venues ranked in terms of volume (descending order)	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders	
CLSA (213800VZMAGVIU2IJA72)	33.7%	9.4%	na	na	na	
Banco Santander (5493006QMFDDMYWIAM13)	15.9%	5.3%	na	na	na	
ITG (213800EEC95PRUCEUP63)	10.6%	17.8%	na	na	na	
Daiwa (MIM2K09LFYD4IB163W58)	3.8%	3.4%	na	na	na	
BMO Capital Markets (L64HM9LHPDOS1B9HJC68)	3.6%	0.1%	na	na	na	

Class of Instrument	Equities – Shares and Depositary Receipts					
Client Type	Retail					
Notification if < 1 average trade per business day in the previous year	No					
Top 5 Venues ranked in terms of volume (descending order)	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders	
Liquidnet (213800ZIRB79BE5XQM68)	42.6%	30.8%	na	na	na	
ITG (213800EEC95PRUCEUP63)	34.7%	32.1%	na	na	na	
Redburn Partners (213800PKEJQZQXQCOJ04)	11.4%	10.4%	na	na	na	
Sanford Bernstein (54930049G8WQ5OOUSD19)	11.3%	26.6%	na	na	na	
na	na	na	na	na	na	

Class of Instrument	Equities – Shares and Depositary Receipts:					
Client Type	Tick size liquidity bands 1 and 2					
Notification if < 1 average trade per business day in the previous year	Professional					
Notification if < 1 average trade per business day in the previous year	No					
Top 5 Venues ranked in terms of volume (descending order)	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders	
Daiwa (MIM2K09LFYD4IB163W58)	14.6%	11.6%	na	na	na	
Sanford Bernstein (54930049G8WQ5OOUSD19)	14.4%	14.0%	na	na	na	
Instinet (213800MXAKR2LA1VBM44)	8.3%	7.7%	na	na	na	
SMBC (G7WFA3G3MT5YHH8CHG81)	8.0%	6.9%	na	na	na	
Jefferies (S5THZMDUJCTQZBTRV198)	7.5%	6.5%	na	na	na	

Equities – Shares and Depositary Receipts:

Class of Instrument Tick size liquidity bands 1 and 2

Client Type Retail

Notification if < 1 average trade per business day in the previous year No

Top 5 Venues ranked in terms of volume (descending order)	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Instinet (213800MXAKR2LA1VBM44)	19.2%	14.5%	na	na	na
Sanford Bernstein (54930049G8WQ5OOUSD19)	18.8%	20.5%	na	na	na
Daiwa (MIM2K09LFYD4IB163W58)	9.0%	8.7%	na	na	na
Mizuho (213800HZ54TG54H2KV03)	8.4%	6.1%	na	na	na
UBS (BFM8T61CT2L1QCEMIK50)	7.4%	8.5%	na	na	na

Equities – Shares and Depositary Receipts:

Class of Instrument Tick size liquidity bands 3 and 4

Client Type Professional

Notification if < 1 average trade per business day in the previous year No

Top 5 Venues ranked in terms of volume (descending order)	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Sanford Bernstein (54930049G8WQ5OOUSD19)	22.5%	30.7%	na	na	na
Liquidnet (213800ZIRB79BE5XQM68)	10.6%	7.9%	na	na	na
BMO Capital Markets (L64HM9LHPDOS1B9HJC68)	9.2%	3.1%	na	na	na
ITG (213800EEC95PRUCEUP63)	6.7%	6.0%	na	na	na
CIBC (BVRCO19C4GKNSAXXHE82)	4.7%	2.8%	na	na	na

Equities – Shares and Depositary Receipts:

Class of Instrument Tick size liquidity bands 3 and 4

Client Type Retail

Notification if < 1 average trade per business day in the previous year No

Top 5 Venues ranked in terms of volume (descending order)	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Sanford Bernstein (54930049G8WQ5OOUSD19)	19.9%	24.0%	na	na	na
Numis (213800P3F4RT97WDSX47)	12.1%	10.9%	na	na	na
HSBC (MP6I5ZYBUEU3UXPYFY54)	12.0%	11.9%	na	na	na
Berenberg (529900UC2OD7II24Z667)	10.8%	6.5%	na	na	na
Barclays Capital (K9WDOH4D2PYBSLSOB484)	8.9%	5.9%	na	na	na

Equities – Shares and Depositary Receipts:

Class of Instrument Tick size liquidity bands 5 and 6

Client Type Professional

Notification if < 1 average trade per business day in the previous year No

Top 5 Venues ranked in terms of volume (descending order)	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Sanford Bernstein (54930049G8WQ50OUSD19)	18.5%	18.2%	na	na	na
Liquidnet (213800ZIRB79BE5XQM68)	8.7%	12.8%	na	na	na
ITG (213800EEC95PRUCEUP63)	8.5%	10.8%	na	na	na
UBS (BFM8T61CT2L1QCEMIK50)	7.5%	8.1%	na	na	na
Goldman Sachs (W22LROWP2IHZNBB6K528)	7.4%	7.5%	na	na	na

Equities – Shares and Depositary Receipts:

Class of Instrument Tick size liquidity bands 5 and 6

Client Type Retail

Notification if < 1 average trade per business day in the previous year No

Top 5 Venues ranked in terms of volume (descending order)	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Sanford Bernstein (54930049G8WQ50OUSD19)	25.2%	24.8%	na	na	na
UBS (BFM8T61CT2L1QCEMIK50)	8.8%	8.8%	na	na	na
ITG (213800EEC95PRUCEUP63)	7.9%	7.8%	na	na	na
Instinet (213800MXAKR2LA1VBM44)	7.2%	6.8%	na	na	na
Liquidnet (213800ZIRB79BE5XQM68)	6.4%	8.9%	na	na	na

Equity Derivatives: Futures and Options

Class of Instrument Admitted to Trading on a Trading Venue

Client Type Professional

Notification if < 1 average trade per business day in the previous year No

Top 5 Venues ranked in terms of volume (descending order)	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Morgan Stanley (5493006PLV06WO8C1T28)	36.0%	49.6%	na	na	na
Barclays Capital (AC28XWWI3WIBK2824319)	20.3%	15.8%	na	na	na
Bofa Merrill Lynch (GGDZP1UYGU9STUHRDP48)	17.0%	13.2%	na	na	na
UBS (T6FIZBDPKLYJKFCRVK44)	8.1%	6.0%	na	na	na
JP Morgan (K6Q0W1PS1L1O4IQL9C32)	7.8%	5.1%	na	na	na

Equity Derivatives: Futures and Options					
<u>Class of Instrument</u>	<u>Admitted to Trading on a Trading Venue</u>				
Client Type	Retail				
Notification if < 1 average trade per business day in the previous year	No				
	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Top 5 Venues ranked in terms of volume (descending order)					
na	na	na	na	na	na
na	na	na	na	na	na
na	na	na	na	na	na
na	na	na	na	na	na
na	na	na	na	na	na

Securitized Derivatives: Warrants and Certificate Derivatives					
<u>Class of Instrument</u>	<u>Certificate Derivatives</u>				
Client Type	Professional				
Notification if < 1 average trade per business day in the previous year	No				
	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Top 5 Venues ranked in terms of volume (descending order)					
Raymond James (213800GH3F4OW1COOV72)	52.8%	0.8%	na	na	na
UBS (BFM8T61CT2L1QCEMIK50)	28.2%	46.9%	na	na	na
Barclays Capital (G5GSEF7VJP517OUK5573)	11.3%	23.4%	na	na	na
JP Morgan (K6Q0W1PS1L1O4IQL9C32)	7.7%	23.4%	na	na	na
N+1 Singer Capital Markets (213800ITO7QMNQ9SFG53)	0.1%	3.1%	na	na	na

Securitized Derivatives: Warrants and Certificate Derivatives					
<u>Class of Instrument</u>	<u>Certificate Derivatives</u>				
Client Type	Retail				
Notification if < 1 average trade per business day in the previous year	No				
	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Top 5 Venues ranked in terms of volume (descending order)					
N+1 Singer Capital Markets (213800ITO7QMNQ9SFG53)	82.4%	84.2%	na	na	na
Canaccord Genuity Limited UK Canada (ZBU7V5NIMN4ILRFC23)	17.6%	15.8%	na	na	na
na	na	na	na	na	na
na	na	na	na	na	na
na	na	na	na	na	na

Exchange Traded Products (Exchange Traded Funds, Exchange Traded Notes and Exchange Traded Commodities)	
<u>Class of Instrument</u>	<u>Traded Commodities</u>
Client Type	Professional
Notification if < 1 average trade per business day in the previous year	No

Top 5 Venues ranked in terms of volume (descending order)	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Sanford Bernstein (54930049G8WQ50OUSD19)	66.9%	83.0%	na	na	na
Investec (84S0VF8TSMH0T6D4K848)	8.4%	4.3%	na	na	na
Redburn Partners (213800PKEJQZQXQCOJ04)	6.8%	1.9%	na	na	na
Instinet (213800MXAKR2LA1VBM44)	6.7%	3.7%	na	na	na
Bofa Merrill Lynch (GGDZP1UYGU9STUHRDP48)	4.1%	1.9%	na	na	na

Exchange Traded Products (Exchange Traded Funds, Exchange Traded Notes and Exchange Traded Commodities)

Class of Instrument

Client Type

Notification if < 1 average trade per business day in the previous year

Retail

No

Top 5 Venues ranked in terms of volume (descending order)	Proportion of volume executed as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Sanford Bernstein (54930049G8WQ50OUSD19)	98.1%	97.2%	na	na	na
Instinet (213800MXAKR2LA1VBM44)	0.9%	1.4%	na	na	na
UBS (BFM8T61CT2L1QCEMIK50)	0.4%	0.5%	na	na	na
Redburn Partners (213800PKEJQZQXQCOJ04)	0.4%	0.5%	na	na	na
na	na	na	na	na	na