

Class of Instrument	Equities - Shares & Depositary Receipts (T34)				
Notification if <1 average trade per business day in the previous year	No				
Top five execution venues ranked in t erms of trading volumes (descending o rder)	Proportion of volume trad ed as a percentage of tot al in that class	Proportion of orders exec uted as percentage of tot al in that class	Percentage of pass ive orders	Percentage of aggres sive orders	Percentage of dire cted orders
Bolsa de Madrid XMAD	38.68 %	19.98 %	55.10 %	31.53 %	0.00 %
Swiss Stock Exchange XSWX	19.31 %	0.25 %	0.00 %	0.00 %	0.00 %
CHI-X Europe CHIX	6.01 %	12.85 %	69.31 %	23.76 %	0.00 %
Aquis Exchange AQXE	5.42 %	14.00 %	27.27 %	66.36 %	0.00 %
Lisbon Stock Exchange XLIS	4.66 %	2.61 %	34.15 %	29.27 %	0.00 %
Interaction	Execution				
Report provided by LiquidMetrix					



Class of Instrument	Equities - Shares & Depositary Receipts (T56)				
Notification if <1 average trade per business day in the previous year	No				
Top five execution venues ranked in t erms of trading volumes (descending o rder)	Proportion of volume trad ed as a percentage of tot al in that class	Proportion of orders exec uted as percentage of tot al in that class	Percentage of pass ive orders	Percentage of aggres sive orders	Percentage of dire cted orders
Bolsa de Madrid XMAD	27.56 %	8.49 %	55.29 %	36.18 %	0.00 %
Swiss Stock Exchange XSWX	10.23 %	0.17 %	28.57 %	0.00 %	0.00 %
CHI-X Europe CHIX	8.88 %	12.32 %	55.98 %	41.18 %	0.00 %
MORGAN STANLEY EUROPE S.E SYSTEMAT IC INTERNALIS MESI	7.14 %	8.64 %	19.65 %	32.66 %	0.00 %
Aquis Exchange AQXE	4.50 %	10.49 %	26.19 %	70.48 %	0.00 %
Interaction	Execution				
Report provided by LiquidMetrix					



Class of Instrument	Equities - Shares & Depositary Receipts (T12)				
Notification if <1 average trade per business day in the previous year	Yes				
Top five execution venues ranked in t erms of trading volumes (descending o rder)	Proportion of volume trad ed as a percentage of tot al in that class	Proportion of orders exec uted as percentage of tot al in that class	Percentage of pass ive orders	Percentage of aggres sive orders	Percentage of dire cted orders
Bolsa de Madrid XMAD	86.00 %	45.24 %	52.63 %	5.26 %	0.00 %
Deutsche Börse XETA XETA	4.38 %	2.38 %	0.00 %	0.00 %	0.00 %
Lisbon Stock Exchange XLIS	3.32 %	7.15 %	0.00 %	33.33 %	0.00 %
TOWER RESEARCH CAPITAL EUROPE LTD TRS I	2.11 %	4.76 %	0.00 %	100.00 %	0.00 %
BATS Europe Dark Pool BATD	1.81 %	7.15 %	33.33 %	66.67 %	0.00 %
Interaction	Execution				
Report provided by LiquidMetrix					



Class of Instrument	Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities)				
Notification if <1 average trade per business day in the previous year	Yes				
Top five execution venues ranked in t erms of trading volumes (descending o rder)	Proportion of volume trad ed as a percentage of tot al in that class	Proportion of orders exec uted as percentage of tot al in that class	Percentage of pass ive orders	Percentage of aggres sive orders	Percentage of dire cted orders
Paris Stock Exchange XPAR	77.86 %	47.92 %	0.00 %	86.96 %	0.00 %
Off Exchange Transactions XOFF	8.66 %	20.83 %	0.00 %	0.00 %	0.00 %
London Stock Exchange XLON	7.35 %	6.25 %	0.00 %	100.00 %	0.00 %
CHI-X Europe CHIX	2.11 %	4.17 %	0.00 %	50.00 %	0.00 %
Borsa Italiana (MTAA) MTAA	1.70 %	4.17 %	0.00 %	50.00 %	0.00 %
Interaction	Execution				
Report provided by LiquidMetrix					



Class of Instrument	Other instruments				
Notification if <1 average trade per business day in the previous year	Yes				
Top five execution venues ranked in t erms of trading volumes (descending o rder)	Proportion of volume trad ed as a percentage of tot al in that class	Proportion of orders exec uted as percentage of tot al in that class	Percentage of pass ive orders	Percentage of aggres sive orders	Percentage of dire cted orders
Bolsa de Madrid XMAD	100.00 %	100.00 %	50.00 %	0.00 %	0.00 %
Interaction	Execution				
Report provided by LiquidMetrix					