

Class of Instrument	Equities - Shares & Depositary Receipts (T12)				
Notification if <1 average trade per business day in the previous year	Νο				
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
Lisbon Stock Exchange XLIS	42.55 %	42.13 %	5.69 %	94.31 %	0.00 %
Deutsche Börse XETA XETA	31.48 %	6.85 %	80.00 %	20.00 %	0.00 %
London Stock Exchange XLON	7.57 %	12.67 %	72.97 %	27.03 %	0.00 %
CHI-X Europe CHIX	6.37 %	23.29 %	72.06 %	27.94 %	0.00 %
BATS Europe Dark Pool BATD	5.02 %	1.71 %	0.00 %	100.00 %	0.00 %
Interaction	Execution				
Report provided by LiquidMetrix					



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	44.18 %	45.54 %	46.86 %	45.63 %	0.00 %
Aquis Exchange AQXE	7.23 %	7.02 %	11.28 %	88.72 %	0.00 %
Lisbon Stock Exchange XLIS	6.43 %	6.47 %	59.19 %	31.39 %	0.00 %
CHI-X Europe CHIX	6.15 %	17.09 %	72.94 %	27.06 %	0.00 %
CITADEL CONNECT EUROPE - SYSTEMATIC I NTERNALISER CCEU	4.73 %	1.08 %	0.00 %	100.00 %	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	Νο				
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	27.80 %	25.38 %	62.96 %	31.30 %	0.00 %
CHI-X Europe CHIX	13.28 %	20.85 %	74.00 %	26.00 %	0.00 %
MORGAN STANLEY EUROPE S.E SYSTEMAT IC INTERNALIS MESI	7.22 %	11.55 %	11.59 %	23.09 %	0.00 %
Paris Stock Exchange XPAR	5.81 %	3.03 %	72.46 %	24.04 %	0.00 %
London Stock Exchange XLON	5.52 %	3.64 %	85.09 %	10.28 %	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	Νο				
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	39.16 %	52.73 %	65.52 %	34.48 %	0.00 %
Off Exchange Transactions XOFF	32.08 %	16.82 %	0.00 %	0.00 %	0.00 %
MORGAN STANLEY EUROPE S.E SYSTEMAT IC INTERNALIS MESI	16.45 %	12.73 %	50.00 %	50.00 %	0.00 %
Bolsa de Madrid XMAD	5.80 %	1.82 %	50.00 %	50.00 %	0.00 %
CHI-X Europe CHIX	5.25 %	15.00 %	100.00 %	0.00 %	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	Νο					
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 classProportion of orders exec uted as percentage of tot al in that classPercentage of pass ive ordersPercentage of aggres sive ordersPercentage 					
Bolsa de Madrid XMAD	86.84 %	75.10 %	94.71 %	0.00 %	0.00 %	
Off Exchange Transactions XOFF	7.53 %	0.21 %	0.00 %	0.00 %	0.00 %	
BATS Europe BATE	3.73 %	1.05 %	100.00 %	0.00 %	0.00 %	
CHI-X Europe CHIX	1.90 %	23.64 %	100.00 %	0.00 %	0.00 %	
Interaction	Execution					
Report provided by LiquidMetrix						