

| Class of Instrument   | Equities - Shares & Depositary Receipts (T12)  Yes                         |  |                               |                                  |                                |
|---|--|--|-------------------------------|----------------------------------|--------------------------------|
| Notification if <1 average trade per business day in the previous year            |  |  |                               |                                  |                                |
| Top five execution venues ranked in t erms of trading volumes (descending o rder) | Proportion of volume trad<br>ed as a percentage of tot<br>al in that class | Proportion of orders exec<br>uted as percentage of tot<br>al in that class | Percentage of pass ive orders | Percentage of aggres sive orders | Percentage of dire cted orders |
| Bolsa de Madrid XMAD  | 44.11 %  | 15.00 %  | 11.11 %                       | 11.11 %                          | 0.00 %                         |
| Deutsche Börse XETA XETA  | 17.59 %  | 20.00 %  | 50.00 %                       | 25.00 %                          | 0.00 %                         |
| Amsterdam Stock Exchange XAMS   | 6.81 %   | 3.33 %   | 0.00 %                        | 0.00 %                           | 0.00 %                         |
| Aquis Exchange AQXE   | 6.07 %   | 8.33 %   | 0.00 %                        | 60.00 %                          | 0.00 %                         |
| CHI-X Europe CHIX   | 5.89 %   | 10.00 %  | 0.00 %                        | 50.00 %                          | 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<br>ed as a percentage of tot<br>al in that class | Proportion of orders exec<br>uted as percentage of tot<br>al in that class | Percentage of pass ive orders | Percentage of aggres sive orders | Percentage of dire cted orders |
| CBOE EUROPE ? BXE OFF-BOOK BATF   | 26.44 %  | 2.20 %   | 0.00 %                        | 63.16 %                          | 0.00 %                         |
| Bolsa de Madrid XMAD  | 18.46 %  | 14.08 %  | 51.03 %                       | 34.57 %                          | 0.00 %                         |
| Off Exchange Transactions XOFF  | 16.36 %  | 1.33 %   | 0.00 %                        | 0.00 %                           | 0.00 %                         |
| BATS Periodic Auction BATP  | 3.50 %   | 3.88 %   | 0.00 %                        | 0.00 %                           | 0.00 %                         |
| CHI-X Europe CHIX   | 3.43 %   | 11.59 %  | 66.00 %                       | 25.50 %                          | 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<br>ed as a percentage of tot<br>al in that class | Proportion of orders exec<br>uted as percentage of tot<br>al in that class | Percentage of pass ive orders | Percentage of aggres sive orders | Percentage of dire cted orders |  |
| Bolsa de Madrid XMAD  | 27.09 %  | 9.83 %   | 69.91 %                       | 23.01 %                          | 0.00 %                         |  |
| Paris Stock Exchange XPAR   | 12.61 %  | 2.38 %   | 64.63 %                       | 12.20 %                          | 0.00 %                         |  |
| CHI-X Europe CHIX   | 9.37 %   | 14.20 %  | 74.49 %                       | 21.84 %                          | 0.00 %                         |  |
| London Stock Exchange XLON  | 5.99 %   | 0.96 %   | 66.67 %                       | 9.09 %                           | 0.00 %                         |  |
| MORGAN STANLEY EUROPE S.E. MSEU   | 5.88 %   | 6.23 %   | 0.00 %                        | 0.00 %                           | 0.00 %                         |  |
| Interaction   | Execution  |  |                               |                                  |                                |  |
|   | Re   | port 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<br>ed as a percentage of tot<br>al in that class                              | Proportion of orders exec<br>uted as percentage of tot<br>al in that class | Percentage of pass ive orders | Percentage of aggres sive orders | Percentage of dire cted orders |  |
| Paris Stock Exchange XPAR   | 88.31 %   | 38.89 %  | 28.57 %                       | 28.57 %                          | 0.00 %                         |  |
| TOWER RESEARCH CAPITAL EUROPE LTD TRS   | 5.36 %  | 11.11 %  | 0.00 %                        | 100.00 %                         | 0.00 %                         |  |
| CBOE EUROPE - REGULATED MARKET INTEGR<br>ATED BOOK BART                           | 2.04 %  | 11.11 %  | 50.00 %                       | 50.00 %                          | 0.00 %                         |  |
| Borsa Italiana (MTAA) MTAA  | 1.96 %  | 16.67 %  | 66.67 %                       | 33.33 %                          | 0.00 %                         |  |
| Deutsche Börse XETA XETA  | 1.83 %  | 11.11 %  | 50.00 %                       | 50.00 %                          | 0.00 %                         |  |
| Interaction   | Execution   |  |                               |                                  |                                |  |
| Report provided by LiquidMetrix   |   |  |                               |                                  |                                |  |