



Best Execution Quality Reporting 2020

Deutsche Bank (Suisse) S.A.

Disclosure document related to the Commission Delegated Regulation (EU) 2017/576 of 8 June 2016 supplementing Directive 2014/65/EU of the European Parliament and of the Council with regard to regulatory technical standards for the annual publication by investment firms of information on the identity of execution venues and on the quality of execution.

Commentary to accompany the RTS 28 Top 5 Venue Report for DB Suisse

Reporting Period: 01st Jan 2020 to 31st Dec 2020

In accordance with EU Commission Delegated Regulation 2017/576 of 8 June 2016 ("Regulatory Technical Standard (RTS) 28") supplementing MiFID (Directive 2014/65/EU), this document provides information on the top 5 venues / brokers (in terms of trading volumes) used by DB Suisse in calendar year 2020, to execute client orders. We also provide below information pertaining to the quality of execution obtained, as asked under Article 3(3) of RTS 28.

<https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32017R0576&from=EN>

As required under Article 3(3) of MiFID RTS 28	Instrument applicability	Commentary (as applicable to DB Suisse)
a) an explanation of the relative importance the firm gave to the execution factors of price, costs, speed, likelihood of execution or any other consideration including qualitative factors when making assessments of the quality of execution;	All	The execution factors and their relative importance are described in our Order Execution Policy. This can found here: https://deutschewealth.com/content/deutschewealth/en/articles/regulatory_information.html
b) a description of any close links, conflicts of interests, and common ownerships with respect to any execution venues used to execute orders;	<i>Equities - Shares and Depositary Receipts</i>	There are no close links, conflicts of interests, and common ownerships with respect to any external execution venue / broker used to execute orders. Some orders may be executed using DB AG (group parent entity) as the broker / counterparty, pursuant to application of Best Execution principles
	<i>Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities)</i>	
	<i>Debt Instruments</i>	
	<i>Structured Finance instruments</i>	
	<i>Other Instruments</i>	
	<i>Currency Derivatives - Futures and options admitted to trading on a trading venue</i>	
	<i>Currency Derivatives - Swaps, forwards and other currency derivatives</i>	Execution is carried out solely against DB AG which is the group parent entity. Controls are in place to ensure that best results are obtained for the client on a consistent basis.
	<i>Interest Rates Derivatives - Swaps, forwards and other interest rates derivatives</i>	
	<i>Equity Derivatives - Swaps, forwards and other equity derivatives</i>	All orders are routed to the exchange via either the DB AG (group parent entity) platform or via Bloomberg EMSX. Best Execution monitoring controls are in place to ensure that orders are routed to exchange accurately and promptly.
	<i>Interest Rates Derivatives - Futures and options admitted to trading on a trading venue</i>	
	<i>Commodity Derivatives - Futures and options admitted to trading on a trading venue</i>	
	<i>Equity Derivatives - Futures and options admitted to trading on a trading venue</i>	
<i>Securitised Derivatives - Warrants and Certificate Derivatives</i>	Any potential conflict of interest arising from fee payments is mentioned clearly to the client in the term sheet	

As required under Article 3(3) of MiFID RTS 28	Instrument applicability	Commentary (as applicable to DB Suisse)
(c) a description of any specific arrangements with any execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received;	<i>All (other than Securitised Derivatives)</i>	There are no specific arrangements with any external execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received.
	<i>Securitised Derivatives</i>	Structuring fees are paid by the issuer via invoice.
(d) an explanation of the factors that led to a change in the list of execution venues listed in the firm's execution policy, if such a change occurred;	<i>All</i>	No change in the list of execution venues occurred during the year.
(e) an explanation of how order execution differs according to client categorisation, where the firm treats such category of client differently and where it may affect the order execution arrangements;	<i>All</i>	For Best Execution principles, refer to Section 2.1.1 & 2.1.2 of the Order Execution Policy. This can be found here: https://deutschewealth.com/content/deutschewealth/en/articles/regulatory_information.html
(f) an explanation of when other criteria were given precedence over immediate price and cost when executing retail client orders and how these other criteria were instrumental in delivering the best possible result in terms of the total consideration to the client;	<i>All</i>	For Best Execution principles, refer to Section 2.1.1 & 2.1.2 of the Order Execution Policy. This can be found here: https://deutschewealth.com/content/deutschewealth/en/articles/regulatory_information.html
g) an explanation of how the investment firm has used any data or tools relating to the quality of execution including any data published under 27(10) (a) of Directive 2014/65/EU.	<i>All (other than Securitised Derivatives)</i>	Data under Article 27(10) (a) of Directive 2014/65/EU was not published during calendar year 2020. However, we have used other independent benchmarking tools to assess our execution prices against the average prevailing prices in the market. Such a benchmarking exercise helped us to assess the quality of execution by our brokers / counterparties and enabled us to optimize selection of the same to improve execution results.
	<i>Securitised Derivatives</i>	Data under Article 27(10)(a) of Directive 2014/65/EU was not published during calendar year 2020. Benchmarking was not used for structured products. However, quality of execution was ensured by obtaining, on average, pricing from three different counterparties for each trade.
h) an explanation of how the investment firm has used, if applicable, output of a consolidated tape provider established under Article 65 of Directive 2014/65/EU which will allow for the development of enhanced measures of execution quality or any other algorithms used to optimize and assess execution performances.	<i>All</i>	Output of consolidated tape providers as per Article 65 of Directive 2014/65/EU was not available during 2020.

The following tables provide information on the top five execution venues / executing brokers (by proportion of volume traded as a % of total volume) used by DB Suisse in calendar year 2020 for executing orders from clients in various classes of Financial Instruments. A machine readable version of these tables (CSV format) has also been made available separately.

https://deutschewealth.com/content/deutschewealth/en/articles/regulatory_information.html

The terms “**Execution Venue**” and “**Executing Broker**” as used in the tables below imply “**Execution**” and “**Transmission**” of orders respectively.

For Retail Clients:

LEGAL UNIT	529900BXXPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and Depository Receipts - Tick size liquidity bands 1 and 2 (from 0 to 79 trades per day)					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Y						
Client Type	Retail					
Execution Venue	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
SIX SIS AG	549300A3XI3YWROC2J57	100.00%	100.00%	0.11%	0.15%	0.00%

LEGAL UNIT	529900BXXPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and Depository Receipts - Tick size liquidity bands 1 and 2 (from 0 to 79 trades per day)					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR N						
Client Type	Retail					
Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
Steubing AG	39120043LUI1WJS8IX30	25.94%	58.30%	-	-	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	21.71%	12.85%	-	-	0.00%
Merrill Lynch, Pierce, Fenner & Smith Incorporated	8NAV47T0Y26Q87Y0QP81	11.48%	11.88%	-	-	0.00%
INSTINET EUROPE LIMITED	213800MXAKR2LA1VBM44	5.80%	12.87%	0.13%	0.04%	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	0.69%	0.78%	-	-	0.00%

LEGAL UNIT	529900BXXPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and Depository Receipts - Tick size liquidity bands 1 and 2 (from 0 to 79 trades per day)					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
Steubing AG	39120043LUI1WJS8IX30	25.85%	55.50%	-	-	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	21.63%	12.23%	-	-	0.00%
Merrill Lynch, Pierce, Fenner & Smith Incorporated	8NAV47T0Y26Q87Y0QP81	11.44%	11.31%	-	-	0.00%
INSTINET EUROPE LIMITED	213800MXAKR2LA1VBM44	5.78%	12.25%	0.13%	0.04%	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	0.69%	0.74%	-	-	0.00%

LEGAL UNIT	529900BXXPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and Depository Receipts - Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Retail					
Execution Venue	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
SIX SIS AG	549300A3XI3YWROC2J57	100.00%	100.00%	3.26%	4.56%	0.00%

LEGAL UNIT	529900BXXPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and Depository Receipts - Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Retail					
Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
Steubing AG	39120043LUI1WJS8IX30	24.57%	77.82%	-	-	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	22.43%	8.94%	-	-	0.00%
Merrill Lynch, Pierce, Fenner & Smith Incorporated	8NAV47T0Y26Q87Y0QP81	9.18%	5.21%	-	-	0.00%
INSTINET EUROPE LIMITED	213800MXAKR2LA1VBM44	3.10%	2.15%	0.20%	0.06%	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	0.47%	1.50%	-	-	0.00%

LEGAL UNIT	529900BXXPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and Depository Receipts - Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
Steubing AG	39120043LUI1WJS8IX30	23.68%	24.06%	-	-	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	21.62%	2.77%	-	-	0.00%
Merrill Lynch, Pierce, Fenner & Smith Incorporated	8NAV47T0Y26Q87Y0QP81	8.85%	1.61%	-	-	0.00%
SIX SIS AG	549300A3X13YWROC2J57	3.61%	69.08%	3.26%	4.56%	0.00%
INSTINET EUROPE LIMITED	213800MXAKR2LA1VBM44	2.99%	0.67%	0.20%	0.06%	0.00%

LEGAL UNIT	529900BXXPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and Depository Receipts - Tick size liquidity bands 5 and 6 (from 2000 trades per day)					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Retail					
Execution Venue	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
SIX SIS AG	549300A3X13YWROC2J57	100.00%	100.00%	5.77%	8.08%	0.00%

LEGAL UNIT	529900BXXPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and Depository Receipts - Tick size liquidity bands 5 and 6 (from 2000 trades per day)					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Retail					
Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
Steubing AG	39120043LUI1WJS8IX30	39.31%	78.35%	-	-	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	18.73%	7.30%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	16.58%	10.43%	-	-	0.00%
INSTINET EUROPE LIMITED	213800MXAKR2LA1VBM44	2.89%	0.29%	0.13%	0.04%	0.00%
Merrill Lynch, Pierce, Fenner & Smith Incorporated	8NAV47T0Y26Q87Y0QP81	1.35%	0.45%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and Depository Receipts - Tick size liquidity bands 5 and 6 (from 2000 trades per day)					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
Steubing AG	39120043LUI1WJS8IX30	35.94%	22.04%	-	-	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	17.13%	2.05%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	15.16%	2.93%	-	-	0.00%
SIX SIS AG	549300A3XI3YWROC2J57	8.58%	71.87%	5.77%	8.08%	0.00%
INSTINET EUROPE LIMITED	213800MXAKR2LA1VBM44	2.64%	0.08%	0.13%	0.04%	0.00%

LEGAL UNIT	529900BXXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(B) Debt Instruments - Bonds					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
UBS AG	BFM8T61CT2L1QCEMIK50	6.82%	13.09%	-	-	0.00%
Citigroup Global Markets Limited	XKZZ2JZF41MRHTR1V493	6.15%	4.95%	-	-	0.00%
J.P. Morgan Securities PLC	K6Q0W1PS1L1O4IQL9C32	5.75%	5.87%	-	-	0.00%
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LWTFZYICNSX8D621K86	5.75%	3.57%	-	-	0.00%
BNP PARIBAS	R0MUWSFPU8MPRO8K5P83	5.58%	3.23%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(B) Debt Instruments - Money Market Instruments					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
Wells Fargo Securities International Limited	BWS7DNS2Z4NPKPNYKL75	22.00%	18.85%	-	-	0.00%
Citigroup Global Markets Limited	XKZZ2JZF41MRHTR1V493	11.03%	20.05%	-	-	0.00%
Coöperatieve Rabobank U.A.	DG3RU1DBUFHT4ZF9WN62	9.89%	3.58%	-	-	0.00%
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LWTFZYICNSX8D621K86	8.64%	4.06%	-	-	0.00%
MIZUHO INTERNATIONAL PLC	213800HZ54TG54H2KV03	8.45%	8.11%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTRE1V05
CLASS OF INSTRUMENT	(C) Interest Rate Derivatives - Futures and options admitted to trading on a trading venue
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Y	
Client Type	Retail

Execution Venue / Executing Broker	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTRE1V05
CLASS OF INSTRUMENT	(C) Interest Rate Derivatives - Swaps, forwards and other interest rate derivatives
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Y	
Client Type	Retail

Execution Venue / Executing Broker	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTRE1V05
CLASS OF INSTRUMENT	(D) Currency Derivatives - Futures and options admitted to trading on a trading venue
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR N	
Client Type	Retail

Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
CITI	XKZZ2JZF41MRHTR1V493	25.24%	4.04%	-	-	0.00%
JPMC	7H6GLXDRUGQFU57RNE97	19.61%	33.86%	-	-	0.00%
DEUTSCHE	7LTWFZYICNSX8D621K86	13.87%	23.78%	-	-	0.00%
SOGN	O2RNE8IBXP4R0TD8PU41	10.34%	2.08%	-	-	0.00%
BARCLAYS	G5GSEF7VJP517OUK5573	9.53%	1.42%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTR1V05					
CLASS OF INSTRUMENT	(D) Currency Derivatives - Swaps, forwards and other currency derivatives					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
STANC	RILFO74KP1CM8P6PCT96	14.26%	11.93%	-	-	0.00%
DEUTSCHE	7LWTFZYICNSX8D621K86	13.93%	13.53%	-	-	0.00%
JPMC	7H6GLXDRUGQFU57RNE97	12.53%	9.79%	-	-	0.00%
UBS	BFM8T61CT2L1QCEMIK50	9.49%	9.67%	-	-	0.00%
MS	4PQUHN3JPFQFNF3BB653	8.17%	7.47%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTR1V05					
CLASS OF INSTRUMENT	(E) Structured Finance Instruments					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LWTFZYICNSX8D621K86	99.02%	95.84%	-	-	0.00%
UBS AG	BFM8T61CT2L1QCEMIK50	0.44%	2.23%	-	-	0.00%
BCP Securities, LLC	2549006Q2SCXK1988H68	0.20%	0.74%	-	-	0.00%
HSBC BANK PLC	MP6I5ZYBUEU3UXPYFY54	0.08%	0.15%	-	-	0.00%
Standard Chartered Bank	RILFO74KP1CM8P6PCT96	0.06%	0.15%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTR1V05					
CLASS OF INSTRUMENT	(F) Equity Derivatives - Futures and options admitted to trading on a trading venue					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Retail					
Execution Venue / Executing Broker	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LWTFZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(F) Equity Derivatives - Swaps and other equity derivatives					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	Y					
Client Type	Retail					
Execution Venue / Executing Broker	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LWTFZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(G) Securitised Derivatives - Warrants and Certificate Derivatives					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LWTFZYICNSX8D621K86	21.85%	33.65%	-	-	0.00%
BNP PARIBAS	R0MUWSFPU8MPRO8K5P83	12.26%	5.07%	-	-	0.00%
BARCLAYS BANK PLC	G5GSEF7VJP5I7OUK5573	11.15%	13.43%	-	-	0.36%
Morgan Stanley & Co. International PLC	4PQUHN3JPF6FNF3BB653	9.17%	3.63%	-	-	0.00%
Goldman Sachs International	W22LROWP2IHZNBB6K528	9.05%	5.31%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(H) Commodities Derivatives - Futures and options admitted to trading on a trading venue					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	Y					
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LWTFZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(I) 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	N					
Client Type	Retail					
Execution Venue	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
SIX SIS AG	549300A3XI3YWROC2J57	100.00%	100.00%	13.69%	19.16%	0.00%

LEGAL UNIT	529900BXXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(I) 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	N					
Client Type	Retail					
Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
KCG EUROPE LIMITED	549300346EFUPFCXJT79	24.98%	29.40%	-	-	0.00%
Flow Traders B.V.	549300CLJI9XDH12XV51	21.42%	14.79%	-	-	0.00%
Jane Street Financial Limited	549300ZHEHX8M31RP142	11.51%	8.64%	-	-	0.00%
Merrill Lynch, Pierce, Fenner & Smith Incorporated	8NAV47T0Y26Q87Y0QP81	10.00%	13.69%	-	-	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	4.23%	9.09%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(I) 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	N					
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
KCG EUROPE LIMITED	549300346EFUPFCXJT79	21.94%	20.71%	-	-	0.00%
Flow Traders B.V.	549300CLJI9XDH12XV51	18.81%	10.42%	-	-	0.00%
SIX SIS AG	549300A3XI3YWROC2J57	12.16%	29.55%	13.69%	19.16%	0.00%
Jane Street Financial Limited	549300ZHEHX8M31RP142	10.11%	6.08%	-	-	0.00%
Merrill Lynch, Pierce, Fenner & Smith Incorporated	8NAV47T0Y26Q87Y0QP81	8.78%	9.64%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(J) Other instruments					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LWTFZYICNSX8D621K86	76.11%	95.75%	-	-	0.00%
UBS AG	BFM8T61CT2L1QCCEMIK50	22.64%	2.16%	-	-	0.00%
Bank Julius Bär & Co. AG	PNWU8O0BLT17BBV61Y18	0.25%	0.03%	-	-	0.00%
Flow Traders B.V.	549300CLJI9XDH12XV51	0.18%	0.21%	-	-	0.00%
SIX SIS AG	549300A3XI3YWROC2J57	0.17%	0.76%	0.06%	0.08%	36.00%

For Professional Clients:

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and Depository Receipts - Tick size liquidity bands 1 and 2 (from 0 to 79 trades per day)					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Professional					
Execution Venue	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
SIX SIS AG	549300A3XI3YWROC2J57	100.00%	100.00%	0.19%	0.27%	0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and Depository Receipts - Tick size liquidity bands 1 and 2 (from 0 to 79 trades per day)					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Professional					
Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
INSTINET EUROPE LIMITED	213800MXAKR2LA1VBM44	34.71%	18.96%	0.29%	0.09%	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	25.59%	13.08%	-	-	0.00%
Steubing AG	39120043LUI1WJS8IX30	24.17%	52.62%	-	-	0.00%
Merrill Lynch, Pierce, Fenner & Smith Incorporated	8NAV47T0Y26Q87Y0QP81	11.66%	10.37%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	2.20%	3.63%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and Depository Receipts - Tick size liquidity bands 1 and 2 (from 0 to 79 trades per day)					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Professional					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
INSTINET EUROPE LIMITED	213800MXAKR2LA1VBM44	34.14%	16.32%	0.29%	0.09%	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	25.17%	11.26%	-	-	0.00%
Steubing AG	39120043LUI1WJS8IX30	23.78%	45.29%	-	-	0.00%
Merrill Lynch, Pierce, Fenner & Smith Incorporated	8NAV47T0Y26Q87Y0QP81	11.47%	8.93%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	2.16%	3.13%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTR1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and Depository Receipts - Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Professional					
Execution Venue	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
SIX SIS AG	549300A3XI3YWROC2J57	100.00%	100.00%	1.31%	1.84%	0.00%

LEGAL UNIT	529900BXXKPMXQTR1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and Depository Receipts - Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Professional					
Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
Steubing AG	39120043LUI1WJS8IX30	35.23%	72.61%	-	-	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	28.75%	10.65%	-	-	0.00%
Merrill Lynch, Pierce, Fenner & Smith Incorporated	8NAV47T0Y26Q87Y0QP81	22.50%	2.79%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	9.10%	10.36%	-	-	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	1.75%	0.67%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTR1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and Depository Receipts - Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Professional					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
Steubing AG	39120043LUI1WJS8IX30	33.50%	52.65%	-	-	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	27.34%	7.72%	-	-	0.00%
Merrill Lynch, Pierce, Fenner & Smith Incorporated	8NAV47T0Y26Q87Y0QP81	21.39%	2.02%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	8.65%	7.51%	-	-	0.00%
SIX SIS AG	549300A3XI3YWROC2J57	4.93%	27.48%	1.31%	1.84%	0.00%

LEGAL UNIT	529900BXKPMXQTR1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and Depository Receipts - Tick size liquidity bands 5 and 6 (from 2000 trades per day)					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Professional					
Execution Venue	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
SIX SIS AG	549300A3X13YWROC2J57	100.00%	100.00%	4.22%	5.91%	0.00%

LEGAL UNIT	529900BXKPMXQTR1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and Depository Receipts - Tick size liquidity bands 5 and 6 (from 2000 trades per day)					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Professional					
Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
Steubing AG	39120043LUI1WJS8IX30	43.03%	80.46%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	26.77%	8.35%	-	-	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	26.46%	7.57%	-	-	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	1.63%	2.30%	-	-	0.00%
Merrill Lynch, Pierce, Fenner & Smith Incorporated	8NAV47T0Y26Q87Y0QP81	1.09%	0.30%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTR1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and Depository Receipts - Tick size liquidity bands 5 and 6 (from 2000 trades per day)					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Professional					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
Steubing AG	39120043LUI1WJS8IX30	38.50%	43.92%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	23.95%	4.56%	-	-	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	23.68%	4.13%	-	-	0.00%
SIX SIS AG	549300A3X13YWROC2J57	10.53%	45.41%	4.22%	5.91%	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	1.46%	1.25%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTR1V05					
CLASS OF INSTRUMENT	(B) Debt Instruments - Bonds					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Professional					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
UBS AG	BFM8T61CT2L1QCCEMIK50	8.91%	12.39%	-	-	0.31%
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LWTFZYICNSX8D621K86	6.61%	4.38%	-	-	1.74%
Citigroup Global Markets Limited	XKZZ2JZF41MRHTR1V493	6.02%	5.79%	-	-	0.66%
Morgan Stanley & Co. International PLC	4PQUHN3JPFQFN3BB653	5.46%	8.54%	-	-	0.00%
BNP PARIBAS	ROMUWSFPU8MPRO8K5P83	5.33%	4.42%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTR1V05					
CLASS OF INSTRUMENT	(B) Debt Instruments - Money Market Instruments					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	Y					
Client Type	Professional					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
MIZUHO INTERNATIONAL PLC	213800HZ54TG54H2KV03	20.39%	6.67%	-	-	0.00%
BNP PARIBAS	ROMUWSFPU8MPRO8K5P83	16.08%	4.44%	-	-	0.00%
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LWTFZYICNSX8D621K86	16.08%	8.89%	-	-	0.00%
Citigroup Global Markets Limited	XKZZ2JZF41MRHTR1V493	12.10%	13.33%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	9.36%	2.22%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTR1V05					
CLASS OF INSTRUMENT	(C) Interest Rate Derivatives - Futures and options admitted to trading on a trading venue					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	Y					
Client Type	Professional					
Execution Venue / Executing Broker	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LWTFZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTR1V05					
CLASS OF INSTRUMENT	(C) Interest Rate Derivatives - Swaps, forwards and other interest rate derivatives					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	Y					
Client Type	Professional					
Execution Venue / Executing Broker	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTR1V05					
CLASS OF INSTRUMENT	(E) Structured Finance Instruments					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	Y					
Client Type	Professional					
Execution Venue / Executing Broker	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	99.70%	91.18%	-	-	0.00%
J.P. Morgan Securities PLC	K6Q0W1PS1L1O4IQL9C32	0.20%	5.88%	-	-	0.00%
RBC Europe Limited	TXDSU46SXBWIGJ8G8E98	0.10%	2.94%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTR1V05					
CLASS OF INSTRUMENT	(F) Equity Derivatives - Futures and options admitted to trading on a trading venue					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Professional					
Execution Venue / Executing Broker	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTR1V05					
CLASS OF INSTRUMENT	(F) Equity Derivatives - Swaps and other equity derivatives					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	Y					
Client Type	Professional					
Execution Venue / Executing Broker	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTR1V05					
CLASS OF INSTRUMENT	(G) Securitised Derivatives - Warrants and Certificate Derivatives					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Professional					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTFWZYICNSX8D621K86	48.30%	38.26%	-	-	0.00%
HSBC BANK PLC	MP615ZYZBEU3UXPYFY54	18.34%	0.58%	-	-	0.00%
Steubing AG	39120043LUI1WJS8IX30	8.01%	37.83%	-	-	0.00%
Goldman Sachs International	W22LROWP2IHZNBB6K528	6.25%	1.74%	-	-	0.00%
Flow Traders B.V.	549300CLJI9XDH12XV51	4.95%	0.43%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTR1V05					
CLASS OF INSTRUMENT	(I) 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	N					
Client Type	Professional					
Execution Venue	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
SIX SIS AG	549300A3XI3YWROC2J57	100.00%	100.00%	8.86%	12.40%	0.00%

LEGAL UNIT	529900BXXKPMXQTR1V05					
CLASS OF INSTRUMENT	(I) 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	N					
Client Type	Professional					
Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
Flow Traders B.V.	549300CLJI9XDH12XV51	30.73%	6.08%	-	-	0.00%
Jane Street Financial Limited	549300ZHEHX8M31RP142	23.75%	4.55%	-	-	0.00%
CANACCORD GENUITY LIMITED	ZBU7V5NIMN4ILRFC23	13.55%	2.23%	-	-	1.43%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	9.43%	41.17%	-	-	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	4.17%	14.67%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTR1V05					
CLASS OF INSTRUMENT	(I) 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	N					
Client Type	Professional					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
Flow Traders B.V.	549300CLJ19XDH12XV51	28.33%	4.83%	-	-	0.00%
Jane Street Financial Limited	549300ZHEHX8M31RP142	21.90%	3.62%	-	-	0.00%
CANACCORD GENUITY LIMITED	ZBU7V5V5NIMN4ILRFC23	12.49%	1.77%	-	-	1.43%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	8.69%	32.75%	-	-	0.00%
SIX SIS AG	549300A3XI3YWROC2J57	7.80%	20.45%	8.86%	12.40%	0.00%

LEGAL UNIT	529900BXKPMXQTR1V05					
CLASS OF INSTRUMENT	(J) Other instruments					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Professional					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
UBS AG	BFM8T61CT2L1QCEMIK50	49.67%	3.60%	-	-	0.00%
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTFWZYICNSX8D621K86	35.92%	72.58%	-	-	0.00%
Flow Traders B.V.	549300CLJ19XDH12XV51	8.32%	0.45%	-	-	0.00%
SIX SIS AG	549300A3XI3YWROC2J57	1.93%	8.99%	0.08%	0.12%	0.00%
Steubing AG	39120043LUI1WJS8IX30	1.40%	8.31%	-	-	0.00%