

# Best Execution Quality Reporting 2019 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 2019 to 31st Dec 2019

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 2019, 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: <u>https://deutschewealth.com/content/deutsche</u> <u>wealth/en/articles/regulatory_information.html</u>
	Equities - Shares and Depositary Receipts Exchange traded products	
	Debt Instruments	There are no close links, conflicts of interests,
	Structured Finance instruments	and common ownerships with respect to any
	Other Instruments	external execution venue / broker used to execute orders. Some orders may be executed
	Currency Derivatives - Futures	using DB AG (group parent entity) as the
	and options admitted to trading	broker / counterparty, pursuant to application
	on a trading venue	of Best Execution principles
	Currency Derivatives - Swaps,	
	forwards and other currency derivatives	
	Interest Rates Derivatives -	
(b) a description of any close links, conflicts of interests, and common	Swaps, forwards and other	Execution is carried out solely against DB AG
ownerships with respect to any	interest rates derivatives	which is the group parent entity. Controls are
execution venues used to execute	Equity Derivatives - Swaps,	in place to ensure that best results are
orders;	forwards and other equity	obtained for the client on a consistent basis.
	derivatives Interest Rates Derivatives -	
	Futures and options admitted to	
	trading on a trading venue	All orders are routed to exchanges via the DB
	Commodity Derivatives - Futures	AG (group parent entity) platform. Best
	and options admitted to trading	Execution monitoring controls are in place to
	on a trading venue	ensure that orders are routed to exchange accurately and promptly.
	Equity Derivatives - Futures and	
	options admitted to trading on a trading venue	
	Securitised Derivatives -	Any potential conflict of interest arising from
	Warrants and Certificate	fee payments is mentioned clearly to the client
	Derivatives	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	All (other than Securitised Derivatives)	There are no specific arrangements with any external execution venues regarding payments made or received, discounts, rebates or non- monetary benefits received.
received, discounts, rebates or non- monetary benefits received;	Securitised Derivatives	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;	All	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;	All	For Best Execution principles, refer to Section 2.1.1 & 2.1.2 of the Order Execution Policy. This can be found here: <u>https://deutschewealth.com/content/deutsche</u> <u>wealth/en/articles/regulatory_information.html</u>
(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;	All	For Best Execution principles, refer to Section 2.1.1 & 2.1.2 of the Order Execution Policy. This can be found here: <u>https://deutschewealth.com/content/deutsche</u> <u>wealth/en/articles/regulatory_information.html</u>
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	All (other than Securitised Derivatives)	Data under Article 27(10) (a) of Directive 2014/65/EU was not published during calendar year 2019. 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.
Directive 2014/65/EU.	Securitised Derivatives	Data under Article 27(10)(a) of Directive 2014/65/EU was not published during calendar year 2019. 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.	All	Output of consolidated tape providers as per Article 65 of Directive 2014/65/EU was not available during 2019.

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 2019 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	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and De	pository Receipts - Tick s	size liquidity bands 1 and	2		
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS Y	'EAFY					
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 Directed orders
SIX SIS AG	549300A3XI3YWROC2J57	100.00%	100.00%	0.90%	1.38%	0.00%
LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and De	pository Receipts - Tick	size liquidity bands 1 and	2		
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS Y	'EAF 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 Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	38.69%	75.48%	-	-	0.00%
INSTINET EUROPE LIMITED	213800MXAKR2LA1VBM44	12.41%	15.66%	7.43%	4.64%	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	3.01%	1.87%	-	-	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	1.94%	2.60%	-	-	0.00%
Nomura Bank (Schweiz) AG	549300FPTTLE2R9UEE81	0.71%	0.43%	-	-	0.00%

LEGAL UNIT CLASS OF INSTRUMENT	529900BXKPMXQTRE1V05 (A) Equities - Shares and De	positopy Possints Tick (	izo liquidity bands 1 and	2		
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEA		pository receipts - ricks	size inquirity barrus 1 ariu	2		
Client Type	Retail					
encircity c	inclum .					
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	7LTWFZYICNSX8D621K86	38.65%	74.19%	-	-	0.00%
INSTINET EUROPE LIMITED	213800MXAKR2LA1VBM44	12.39%	15.39%	7.43%	4.64%	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	3.01%	1.84%	-	-	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	1.94%	2.56%	-	-	0.00%
Nomura Bank (Schweiz) AG	549300FPTTLE2R9UEE81	0.71%	0.42%	-	-	0.00%
LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEA		pository Receipts - Ticks	size liquidity bands 3 and	4		
Client Type	Retail					
Execution Venue	LEI		Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
Execution Venue SIX SIS AG	LE 549300A3XI3YWROC2J57			<u> </u>	<u> </u>	Percentage of Directed orders 0.00%
SIX SIS AG	549300A3XI3YWROC2J57	traded as a % of total	executed as a % of total	Passive orders	Aggressive orders	Directed orders
SIX SIS AG LEGAL UNIT	549300A3XI3YWROC2J57 529900BXKPMXQTRE1V05	traded as a % of total	executed as a % of total 100.00%	Passive orders 30.98%	Aggressive orders	Directed orders
SIX SIS AG LEGAL UNIT CLASS OF INSTRUMENT	549300A3XI3YWROC2J57 529900BXKPMXQTRE1V05 (A) Equities - Shares and De	traded as a % of total	executed as a % of total 100.00%	Passive orders 30.98%	Aggressive orders	Directed orders
SIX SIS AG	549300A3XI3YWROC2J57 529900BXKPMXQTRE1V05 (A) Equities - Shares and De	traded as a % of total	executed as a % of total 100.00%	Passive orders 30.98%	Aggressive orders	Directed orders
SIX SIS AG LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEA	549300A3XI3YWROC2J57 529900BXKPMXQTRE1V05 (A) Equities - Shares and De	traded as a % of total	executed as a % of total 100.00%	Passive orders 30.98%	Aggressive orders	Directed orders
SIX SIS AG LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEA	549300A3XI3YWROC2J57 529900BXKPMXQTRE1V05 (A) Equities - Shares and De	traded as a % of total 100.00% epository Receipts - Tick Proportion of Volume	executed as a % of total 100.00% size liquidity bands 3 and	Passive orders 30.98% 4 Percentage of	Aggressive orders 47.66% Percentage of	Directed orders
SIX SIS AG LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEA Client Type	549300A3XI3YWROC2J57 529900BXKPMXQTRE1V05 (A) Equities - Shares and De f N Retail	traded as a % of total 100.00% epository Receipts - Tick Proportion of Volume	executed as a % of total 100.00% size liquidity bands 3 and Proportion of Trades	Passive orders 30.98% 4 Percentage of	Aggressive orders 47.66% Percentage of	Directed orders
SIX SIS AG LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEA Client Type Executing Broker (ranked by Volume in descending order)	549300A3XI3YWROC2J57 529900BXKPMXQTRE1V05 (A) Equities - Shares and De & N Retail	traded as a % of total 100.00% epository Receipts - Tick Proportion of Volume traded as a % of total	executed as a % of total 100.00% size liquidity bands 3 and Proportion of Trades executed as a % of total	Passive orders 30.98% 4 Percentage of Passive orders	Aggressive orders 47.66% Percentage of	Directed orders 0.00% Percentage of Directed orders
SIX SIS AG LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEA Client Type Executing Broker (ranked by Volume in descending order) DEUTSCHE BANK AKTIENGESELLSCHAFT	549300A3XI3YWROC2J57 529900BXKPMXQTRE1V05 (A) Equities - Shares and De & N Retail IEI 7LTWFZYICNSX8D621K86	traded as a % of total 100.00% epository Receipts - Tick Proportion of Volume traded as a % of total 56.23%	executed as a % of total 100.00% size liquidity bands 3 and Proportion of Trades executed as a % of total 79.41%	Passive orders 30.98% 4 Percentage of Passive orders	Aggressive orders 47.66% Percentage of Aggressive orders	Directed orders 0.00% Percentage of Directed orders 0.00%
SIX SIS AG LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEA Client Type Executing Broker (ranked by Volume in descending order) DEUTSCHE BANK AKTIENGESELLSCHAFT INSTINET EUROPE LIMITED	549300A3XI3YWROC2J57 529900BXKPMXQTRE1V05 (A) Equities - Shares and De f N Retail IEI 7LTWFZYICNSX8D621K86 213800MXAKR2LA1VBM44	traded as a % of total 100.00% epository Receipts - Tick Proportion of Volume traded as a % of total 56.23% 4.33%	executed as a % of total 100.00% size liquidity bands 3 and Proportion of Trades executed as a % of total 79.41% 4.18%	Passive orders 30.98% 4 Percentage of Passive orders	Aggressive orders 47.66% Percentage of Aggressive orders	Directed orders 0.00% Percentage of Directed orders 0.00% 0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05								
CLASS OF INSTRUMENT	(A) Equities - Shares and De	pository Receipts - Tick s	ize liquidity bands 3 and	4					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	F N								
Client Type	Retail								
Proportion of Volume Proportion of Trades Percentage of Percentage of Percentage									
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	traded as a % of total	executed as a % of total	Passive orders	Aggressive orders	Directed orders			
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	54.75%	41.98%	-	-	0.00%			
INSTINET EUROPE LIMITED	213800MXAKR2LA1VBM44	4.22%	2.21%	3.50%	2.19%	0.00%			
SIX SIS AG	549300A3XI3YWROC2J57	2.63%	47.14%	30.98%	47.66%	0.00%			
UBS Switzerland AG	549300WOIFUSNYH0FL22	2.16%	2.30%	-	-	0.00%			
KCG EUROPE LIMITED	549300346EFUPFCXJT79	1.18%	0.53%	-	-	0.00%			
LEGAL UNIT	529900BXKPMXQTRE1V05								
CLASS OF INSTRUMENT	(A) Equities - Shares and De	epository Receipts - Tick	size liquidity bands 5 and	6					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR									
Client Type	Retail								
		Proportion of Volume	Proportion of Trades	Percentage of	Percentage of	Percentage of			
Execution Venue	LEI	•	Proportion of Trades executed as a % of total	<u> </u>	<u> </u>	Percentage of Directed orders			
		traded as a % of total	executed as a % of total	Passive orders	Aggressive orders	Directed orders			
Execution Venue SIX SIS AG	LEI 549300A3XI3YWROC2J57	•	•	<u> </u>	<u> </u>	<u> </u>			
		traded as a % of total	executed as a % of total	Passive orders	Aggressive orders	Directed orders			
SIX SIS AG	549300A3XI3YWROC2J57	traded as a % of total	executed as a % of total 100.00%	Passive orders 21.52%	Aggressive orders	Directed orders			
SIX SIS AG	549300A3XI3YWROC2J57 529900BXKPMXQTRE1V05 (A) Equities - Shares and De	traded as a % of total	executed as a % of total 100.00%	Passive orders 21.52%	Aggressive orders	Directed orders			
SIX SIS AG LEGAL UNIT CLASS OF INSTRUMENT	549300A3XI3YWROC2J57 529900BXKPMXQTRE1V05 (A) Equities - Shares and De	traded as a % of total	executed as a % of total 100.00%	Passive orders 21.52%	Aggressive orders	Directed orders			
SIX SIS AG LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	549300A3XI3YWROC2J57 529900BXKPMXQTRE1V05 (A) Equities - Shares and De	traded as a % of total	executed as a % of total 100.00%	Passive orders 21.52%	Aggressive orders	Directed orders			
SIX SIS AG LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	549300A3XI3YWROC2J57 529900BXKPMXQTRE1V05 (A) Equities - Shares and De	traded as a % of total 100.00% pository Receipts - Tick s	executed as a % of total 100.00% size liquidity bands 5 and	Passive orders 21.52%	Aggressive orders 58.76%	Directed orders			
SIX SIS AG LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	549300A3XI3YWROC2J57 529900BXKPMXQTRE1V05 (A) Equities - Shares and De	traded as a % of total 100.00% pository Receipts - Tick s Proportion of Volume	executed as a % of total 100.00%	Passive orders 21.52% 6 Percentage of	Aggressive orders 58.76% Percentage of	Directed orders			
SIX SIS AG LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type	549300A3XI3YWROC2J57 529900BXKPMXQTRE1V05 (A) Equities - Shares and De N Retail	traded as a % of total 100.00% pository Receipts - Tick s Proportion of Volume	executed as a % of total 100.00% size liquidity bands 5 and Proportion of Trades	Passive orders 21.52% 6 Percentage of	Aggressive orders 58.76% Percentage of	Directed orders			
SIX SIS AG LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type Executing Broker (ranked by Volume in descending order)	549300A3XI3YWROC2J57 529900BXKPMXQTRE1V05 (A) Equities - Shares and De N Retail	traded as a % of total 100.00% pository Receipts - Tick s Proportion of Volume traded as a % of total	executed as a % of total 100.00% size liquidity bands 5 and Proportion of Trades executed as a % of total	Passive orders 21.52% 6 Percentage of	Aggressive orders 58.76% Percentage of	Directed orders 0.00% Percentage of Directed orders			
SIX SIS AG LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type Executing Broker (ranked by Volume in descending order) DEUTSCHE BANK AKTIENGESELLSCHAFT	549300A3XI3YWROC2J57 529900BXKPMXQTRE1V05 (A) Equities - Shares and De N Retail LEI 7LTWFZYICNSX8D621K86	traded as a % of total 100.00% epository Receipts - Tick s Proportion of Volume traded as a % of total 65.61%	executed as a % of total 100.00% size liquidity bands 5 and Proportion of Trades executed as a % of total 90.01%	Passive orders 21.52% 6 Percentage of	Aggressive orders 58.76% Percentage of	Directed orders 0.00% Percentage of Directed orders 0.00%			
SIX SIS AG LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type Executing Broker (ranked by Volume in descending order) DEUTSCHE BANK AKTIENGESELLSCHAFT KCG EUROPE LIMITED	549300A3XI3YWROC2J57 529900BXKPMXQTRE1V05 (A) Equities - Shares and De N Retail LEI 7LTWFZYICNSX8D621K86 549300346EFUPFCXJT79	traded as a % of total 100.00% epository Receipts - Tick s Proportion of Volume traded as a % of total 65.61% 5.77%	executed as a % of total 100.00% size liquidity bands 5 and Proportion of Trades executed as a % of total 90.01% 2.43%	Passive orders 21.52% 6 Percentage of	Aggressive orders 58.76% Percentage of	Directed orders 0.00% Percentage of Directed orders 0.00% 0.00%			

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and Dep	oository Receipts - Tick s	ize liquidity bands 5 and (	6		
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	Ν					
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 Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	52.33%	16.16%	-	-	0.00%
SIX SIS AG	549300A3XI3YWROC2J57	20.24%	82.04%	21.52%	58.76%	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	4.60%	0.44%	-	-	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	3.98%	0.48%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	2.05%	0.08%	-	-	0.00%
LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(B) Debt Instruments - Bond	s				
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR						
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI		Proportion of Trades executed as a % of total		_	Percentage of Directed orders
HSBC BANK PLC	MP6I5ZYZBEU3UXPYFY54	6.99%	4.58%	-	-	0.00%
Citigroup Global Markets Limited	XKZZ2JZF41MRHTR1V493	6.56%	5.24%	-	-	0.00%
UBS Limited	REYPIEJN7XZHSUI0N355	5.95%	7.60%	-	-	0.00%
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	5.63%	3.88%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	5.34%	4.00%	-	-	0.00%
LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(B) Debt Instruments - Mone	ey Market Instruments				
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR						
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	•	Proportion of Trades executed as a % of total	0	2	Percentage of Directed orders
Execution Venue / Executing Broker (ranked by Volume in descending order) Coöperatieve Rabobank U.A.	LE DG3RU1DBUFHT4ZF9WN62	•	•	0	2	5
		traded as a % of total	executed as a % of total	0	2	Directed orders
Coöperatieve Rabobank U.A.	DG3RU1DBUFHT4ZF9WN62	traded as a % of total 18.39%	executed as a % of total 4.87%	0	2	Directed orders
Coöperatieve Rabobank U.A. DEUTSCHE BANK AKTIENGESELLSCHAFT	DG3RU1DBUFHT4ZF9WN62 7LTWFZYICNSX8D621K86	traded as a % of total 18.39% 14.63%	executed as a % of total 4.87% 13.50%	0	2	Directed orders 0.00% 0.00%

LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type	529900BXKPMXQTRE1V05 (C) Interest Rate Derivatives Y Retail	- Futures and options ad	dmitted to trading on a tra	ading venue		
Execution Venue / Executing Broker	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total			Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%
LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type	529900BXKPMXQTRE1V05 (C) Interest Rate Derivatives Y Retail	- Swaps, forwards and o	other interest rate derivat	ives		
Execution Venue / Executing Broker	LEI	•	Proportion of Trades executed as a % of total	Percentage of Passive orders		Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%
LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type	529900BXKPMXQTRE1V05 (D) Currency Derivatives - Fu N Retail	itures and options admi	tted to trading on a tradin	ng venue		
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI		Proportion of Trades executed as a % of total	Percentage o Passive order	Δσστρεείνο	Percentage of Directed orders
DEUTSCHE	7LTWFZYICNSX8D621K86	33.20%	61.08%	-	-	0.00%
JPMC	7H6GLXDRUGQFU57RNE97	19.94%	20.63%	-	-	0.00%
СІТІ	XKZZ2JZF41MRHTR1V493	15.05%	1.04%	-	-	0.00%
SOGN	O2RNE8IBXP4R0TD8PU41	6.16%	2.00%	-	-	0.00%
UBS	BFM8T61CT2L1QCEMIK50	5.11%	3.79%	-	-	0.00%

LEGAL UNIT	F20000DVI/DB4VOTDF4V0F					
CLASS OF INSTRUMENT	529900BXKPMXQTRE1V05 (D) Currency Derivatives - St	wans, forwards and othe	r ourronge dorivativos			
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR		waps, forwards and othe	er currency derivatives			
	Retail					
Client Type	Retail					
					Descent second	
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI		Proportion of Trades executed as a % of total	Percentage of Passive orders	Aggressive	Percentage of Directed orders
DEUTSCHE	7LTWFZYICNSX8D621K86	19.00%	16.78%	-	-	0.00%
JPMC	7H6GLXDRUGQFU57RNE97	10.57%	9.52%	-	-	0.00%
UBS	BFM8T61CT2L1QCEMIK50	10.36%	9.14%	-	-	0.00%
GOLDMAN	W22LROWP2IHZNBB6K528	10.23%	9.17%	-	-	0.00%
RBS	21380078CCZSEEIIKA41	9.63%	9.35%	-	-	0.00%
LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(E) Structured Finance Instru	iments				
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR						
NOTIFICATION IT STAVERAGE TRADE FER BOSINESS DAT IN THE FREVIOUS TEAM	N					
Client Type	Retail					
		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
Client Type	Retail					
Client Type Execution Venue / Executing Broker (ranked by Volume in descending order)	Retail	traded as a % of total	executed as a % of total			Directed orders
Client Type Execution Venue / Executing Broker (ranked by Volume in descending order) DEUTSCHE BANK AKTIENGESELLSCHAFT	Retail LEI 7LTWFZYICNSX8D621K86	traded as a % of total 98.60%	executed as a % of total 96.78%			Directed orders
Client Type Execution Venue / Executing Broker (ranked by Volume in descending order) DEUTSCHE BANK AKTIENGESELLSCHAFT BRIDPORT & CIE SA	Retail LEI 7LTWFZYICNSX8D621K86 213800VGFKO4K5IJUI20	traded as a % of total 98.60% 0.41%	executed as a % of total 96.78% 0.38%			Directed orders 0.00% 0.00%
Client Type Execution Venue / Executing Broker (ranked by Volume in descending order) DEUTSCHE BANK AKTIENGESELLSCHAFT BRIDPORT & CIE SA Credit Suisse Securities (Europe) Limited	Retail LEI 7LTWFZYICNSX8D621K86 213800VGFKO4K5IJUI20 DL6FFRRLF74S01HE2M14	traded as a % of total 98.60% 0.41% 0.38%	executed as a % of total 96.78% 0.38% 0.76%			Directed orders 0.00% 0.00% 0.00%
Client Type Execution Venue / Executing Broker (ranked by Volume in descending order) DEUTSCHE BANK AKTIENGESELLSCHAFT BRIDPORT & CIE SA Credit Suisse Securities (Europe) Limited BCP Securities, LLC	Retail LEI 7LTWFZYICNSX8D621K86 213800VGFKO4K5IJUI20 DL6FFRRLF74S01HE2M14 2549006Q2SCXK1988H68	traded as a % of total 98.60% 0.41% 0.38% 0.18%	executed as a % of total 96.78% 0.38% 0.76% 0.38%			Directed orders 0.00% 0.00% 0.00% 0.00%
Client Type Execution Venue / Executing Broker (ranked by Volume in descending order) DEUTSCHE BANK AKTIENGESELLSCHAFT BRIDPORT & CIE SA Credit Suisse Securities (Europe) Limited BCP Securities, LLC	Retail LEI 7LTWFZYICNSX8D621K86 213800VGFKO4K5IJUI20 DL6FFRRLF74S01HE2M14 2549006Q2SCXK1988H68	traded as a % of total 98.60% 0.41% 0.38% 0.18%	executed as a % of total 96.78% 0.38% 0.76% 0.38%			Directed orders 0.00% 0.00% 0.00% 0.00%
Client Type Execution Venue / Executing Broker (ranked by Volume in descending order) DEUTSCHE BANK AKTIENGESELLSCHAFT BRIDPORT & CIE SA Credit Suisse Securities (Europe) Limited BCP Securities, LLC Standard Chartered Bank	Retail LEI 7LTWFZYICNSX8D621K86 213800VGFK04K5IJUI20 DL6FFRRLF74S01HE2M14 2549006Q2SCXK1988H68 RILFO74KP1CM8P6PCT96	traded as a % of total 98.60% 0.41% 0.38% 0.18% 0.10%	executed as a % of total 96.78% 0.38% 0.76% 0.38% 0.38%	Passive orders		Directed orders 0.00% 0.00% 0.00% 0.00%
Client Type Execution Venue / Executing Broker (ranked by Volume in descending order) DEUTSCHE BANK AKTIENGESELLSCHAFT BRIDPORT & CIE SA Credit Suisse Securities (Europe) Limited BCP Securities, LLC Standard Chartered Bank LEGAL UNIT	Retail LEI TLTWFZYICNSX8D621K86 213800VGFKO4K5IJUI20 DL6FFRRLF74S01HE2M14 2549006Q2SCXK1988H68 RILFO74KP1CM8P6PCT96 529900BXKPMXQTRE1V05 (F) Equity Derivatives - Future	traded as a % of total 98.60% 0.41% 0.38% 0.18% 0.10%	executed as a % of total 96.78% 0.38% 0.76% 0.38% 0.38%	Passive orders		Directed orders 0.00% 0.00% 0.00% 0.00%
Client Type Execution Venue / Executing Broker (ranked by Volume in descending order) DEUTSCHE BANK AKTIENGESELLSCHAFT BRIDPORT & CIE SA Credit Suisse Securities (Europe) Limited BCP Securities, LLC Standard Chartered Bank LEGAL UNIT CLASS OF INSTRUMENT	Retail LEI TLTWFZYICNSX8D621K86 213800VGFKO4K5IJUI20 DL6FFRRLF74S01HE2M14 2549006Q2SCXK1988H68 RILFO74KP1CM8P6PCT96 529900BXKPMXQTRE1V05 (F) Equity Derivatives - Future	traded as a % of total 98.60% 0.41% 0.38% 0.18% 0.10%	executed as a % of total 96.78% 0.38% 0.76% 0.38% 0.38%	Passive orders		Directed orders 0.00% 0.00% 0.00% 0.00%
Client Type Execution Venue / Executing Broker (ranked by Volume in descending order) DEUTSCHE BANK AKTIENGESELLSCHAFT BRIDPORT & CIE SA Credit Suisse Securities (Europe) Limited BCP Securities, LLC Standard Chartered Bank LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	Retail LEI TLTWFZYICNSX8D621K86 213800VGFKO4K5IJUI20 DL6FFRRLF74S01HE2M14 2549006Q2SCXK1988H68 RILFO74KP1CM8P6PCT96 529900BXKPMXQTRE1V05 (F) Equity Derivatives - Futur N	traded as a % of total 98.60% 0.41% 0.38% 0.18% 0.10%	executed as a % of total 96.78% 0.38% 0.76% 0.38% 0.38%	Passive orders		Directed orders 0.00% 0.00% 0.00% 0.00%
Client Type Execution Venue / Executing Broker (ranked by Volume in descending order) DEUTSCHE BANK AKTIENGESELLSCHAFT BRIDPORT & CIE SA Credit Suisse Securities (Europe) Limited BCP Securities, LLC Standard Chartered Bank LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	Retail LEI TLTWFZYICNSX8D621K86 213800VGFKO4K5IJUI20 DL6FFRRLF74S01HE2M14 2549006Q2SCXK1988H68 RILFO74KP1CM8P6PCT96 529900BXKPMXQTRE1V05 (F) Equity Derivatives - Futur N	traded as a % of total 98.60% 0.41% 0.38% 0.18% 0.10% res and options admitted	executed as a % of total 96.78% 0.38% 0.76% 0.38% 0.38%	Passive orders	Aggressive orders Percentage of	Directed orders 0.00% 0.00% 0.00% 0.00%
Client Type Execution Venue / Executing Broker (ranked by Volume in descending order) DEUTSCHE BANK AKTIENGESELLSCHAFT BRIDPORT & CIE SA Credit Suisse Securities (Europe) Limited BCP Securities, LLC Standard Chartered Bank LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type	Retail LEI 7LTWFZYICNSX8D621K86 213800VGFKO4K5IJUI20 DL6FFRRLF74S01HE2M14 2549006Q2SCXK1988H68 RILFO74KP1CM8P6PCT96 529900BXKPMXQTRE1V05 (F) Equity Derivatives - Futur N Retail	traded as a % of total 98.60% 0.41% 0.38% 0.18% 0.10% res and options admitted	executed as a % of total 96.78% 0.38% 0.76% 0.38% 0.38% d to trading on a trading we	Passive orders	Aggressive orders Percentage of	Directed orders 0.00% 0.00% 0.00% 0.00% 0.00% Percentage of

EGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEA Client Type	529900BXKPMXQTRE1V05 (F) Equity Derivatives - Swap R Y Retail	os and other equity deriv	vatives			
Execution Venue / Executing Broker	LEI		Proportion of Trades executed as a % of total		Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%
EGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEA Client Type	529900BXKPMXQTRE1V05 (G) Securitised Derivatives - R N Retail	• Warrants and Certificat	e Derivatives			
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 Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	21.85%	33.65%	-	-	0.00%
BARCLAYS BANK PLC	G5GSEF7VJP5I7OUK5573	12.26%	5.07%	-	-	0.00%
INP PARIBAS Nomura International PLC	R0MUWSFPU8MPRO8K5P83 DGQCSV2PHVF7I2743539	11.15% 9.17%	13.43% 3.63%	-	-	0.00%
ociété Générale SA	O2RNE8IBXP4R0TD8PU41	9.05%	5.31%	-	-	0.00%
EGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type	529900BXKPMXQTRE1V05 (H) Commodities Derivatives R Y Retail	s - Futures and options a	dmitted to trading on a tr	rading venue		
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI		Proportion of Trades executed as a % of total			Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%
EGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAD Client Type	529900BXKPMXQTRE1V05 (I) Exchange traded products R N Retail	s (Exchange traded funds	s, exchange traded notes	and exchange tr	aded commodities)	
		Droportion of Volume	Proportion of Trades	Percentage of	Descentere of	Deveeters of
Execution Venue	LEI		executed as a % of total			Percentage of Directed orders

LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type	529900BXKPMXQTRE1V05 (I) Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities) R Retail						
Executing Broker (ranked by Volume in descending order)	LEI	•	Proportion of Trades executed as a % of total	2	<b>u</b>	Percentage of Directed orders	
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	39.62%	58.40%	-	-	0.00%	
Flow Traders B.V.	549300CLJI9XDH12XV51	25.75%	15.64%	-	-	0.00%	
Commerzbank Aktiengesellschaft	851WYGNLUQLFZBSYGB56	13.00%	12.32%	-	-	0.00%	
CANACCORD GENUITY LIMITED	ZBU7VFV5NIMN4ILRFC23	6.07%	6.29%	-	-	0.00%	
UBS Switzerland AG	549300WOIFUSNYH0FL22	3.09%	1.75%	-	-	0.00%	
LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type	529900BXKPMXQTRE1V05 (I) Exchange traded product N Retail	s (Exchange traded funds	s, exchange traded notes	and exchange tr	aded commodities)		
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI		Proportion of Trades executed as a % of total	Percentage of Passive orders		Percentage of Directed orders	
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	29.14%	30.01%	-	-	0.00%	
SIX SIS AG	549300A3XI3YWROC2J57	26.46%	48.61%	39.11%	24.37%	0.00%	
Flow Traders B.V.	549300CLJI9XDH12XV51	18.94%	8.04%	-	-	0.00%	
Commerzbank Aktiengesellschaft	851WYGNLUQLFZBSYGB56	9.56%	6.33%	-	-	0.00%	
CANACCORD GENUITY LIMITED	ZBU7VFV5NIMN4ILRFC23	4.47%	3.23%	-	-	0.00%	
LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR							
Client Type Execution Venue / Executing Broker (ranked by Volume in descending order)	Retail	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	85.97%	96.70%	-	-	0.00%	
DEUTSCHE BANK AKTIENGESELLSCHAFT		85.97% 12.02%	96.70% 0.98%	-	-		
	7LTWFZYICNSX8D621K86 BFM8T61CT2L1QCEMIK50 G5GSEF7VJP5I7OUK5573			-	-	0.00% 0.00% 0.00%	
DEUTSCHE BANK AKTIENGESELLSCHAFT UBS AG	BFM8T61CT2L1QCEMIK50	12.02%	0.98%	- - - 7.27%	- - - 28.29%	0.00%	

<u>For Professional Clients:</u>						
LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and De	pository Receipts - Tick si	ize liquidity bands 1 and 2	!		
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	₹ Y					
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%	1.18%	1.82%	0.00%
LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and De	pository Receipts - Tick s	ize liquidity bands 1 and 2	2		
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR						
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 order
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	51.43%	66.67%	-	-	0.00%
INSTINET EUROPE LIMITED	213800MXAKR2LA1VBM44	36.10%	28.32%	3.76%	2.35%	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	4.82%	1.50%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	3.67%	0.38%	-	-	0.00%
UBS Securities LLC	T6FIZBDPKLYJKFCRVK44	1.97%	0.25%	-	-	0.00%
LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAF Client Type	529900BXKPMXQTRE1V05 (A) Equities - Shares and De N Professional	pository Receipts - Tick si	ize liquidity bands 1 and 2	2		
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	7LTWFZYICNSX8D621K86	51.02%	57.08%	-	-	0.00%
INSTINET EUROPE LIMITED	213800MXAKR2LA1VBM44	35.82%	24.25%	3.76%	2.35%	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	4.78%	1.29%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	3.65%	0.32%	-	-	0.00%
UBS Securities LLC	T6FIZBDPKLYJKFCRVK44	1.95%	0.21%	-	-	0.00%

LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type	529900BXKPMXQTRE1V05 (A) Equities - Shares and De Y Professional	pository Receipts - Tick s	ize liquidity bands 3 and 4	l		
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%	5.94%	9.14%	0.00%
LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type	529900BXKPMXQTRE1V05 (A) Equities - Shares and De N Professional	pository Receipts - Tick si	ize liquidity bands 3 and 4	Ļ		
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	7LTWFZYICNSX8D621K86	79.99%	74.60%	-	-	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	5.33%	2.41%	-	-	0.00%
INSTINET EUROPE LIMITED	213800MXAKR2LA1VBM44	4.00%	5.21%	1.27%	0.79%	0.00%
Credit Suisse Securities (Europe) Limited	DL6FFRRLF74S01HE2M14	3.37%	2.63%	-	-	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	3.28%	2.47%	-	-	0.00%
LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type	529900BXKPMXQTRE1V05 (A) Equities - Shares and De N Professional	pository Receipts - Tick si	ize liquidity bands 3 and 4	I		
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	7LTWFZYICNSX8D621K86	78.95%	66.44%	-	-	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	5.27%	2.15%	-	-	0.00%
INSTINET EUROPE LIMITED	213800MXAKR2LA1VBM44	3.95%	4.64%	1.27%	0.79%	0.00%
Credit Suisse Securities (Europe) Limited	DL6FFRRLF74S01HE2M14	3.32%	2.34%	-	-	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	3.24%	2.20%	-	-	0.00%

LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type	529900BXKPMXQTRE1V05 (A) Equities - Shares and De N Professional	pository Receipts - Tick s	ize liquidity bands 5 and 6	5		
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%	4.48%	12.24%	0.00%
LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type	529900BXKPMXQTRE1V05 (A) Equities - Shares and De N Professional	pository Receipts - Tick si	ize liquidity bands 5 and 6			
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	7LTWFZYICNSX8D621K86	87.68%	88.18%	-	-	0.04%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	3.56%	2.14%	-	-	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	3.18%	5.93%	-	-	0.00%
Credit Suisse Securities (Europe) Limited	DL6FFRRLF74S01HE2M14	2.51%	2.14%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	0.63%	0.19%	-	-	0.00%
LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type	529900BXKPMXQTRE1V05 (A) Equities - Shares and De N Professional	pository Receipts - Tick s	ize liquidity bands 5 and 6	;		
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	7LTWFZYICNSX8D621K86	79.57%	52.46%	-	-	0.04%
SIX SIS AG	549300A3XI3YWROC2J57	9.25%	40.51%	4.48%	12.24%	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	3.23%	1.27%	-	-	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	2.89%	3.53%	-	-	0.00%
Credit Suisse Securities (Europe) Limited	DL6FFRRLF74S01HE2M14	2.28%	1.27%	-	-	0.00%

LEGAL UNIT CLASS OF INSTRUMENT	529900BXKPMXQTRE1V05 (B) Debt Instruments - Bonds	c.				
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	.,	5				
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	7LTWFZYICNSX8D621K86	14.87%	4.91%	-	-	0.00%
HSBC BANK PLC	MP6I5ZYZBEU3UXPYFY54	5.93%	5.53%	-	-	0.00%
Morgan Stanley & Co. International PLC	4PQUHN3JPFGFNF3BB653	5.45%	9.68%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	5.41%	3.67%	-	-	0.00%
Citigroup Global Markets Limited	XKZZ2JZF41MRHTR1V493	5.09%	5.91%	-	-	0.00%
LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(B) Debt Instruments - Mone	y 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
Execution Venue / Executing Broker (ranked by Volume in descending order) Nomura International PLC	La DGQCSV2PHVF7I2743539			0	Aggressive	-
		traded as a % of total	executed as a % of total	0	Aggressive	Directed orders
Nomura International PLC	DGQCSV2PHVF7I2743539	traded as a % of total 41.48%	executed as a % of total 7.41%	0	Aggressive	Directed orders
Nomura International PLC HSBC BANK PLC	DGQCSV2PHVF7I2743539 MP6I5ZYZBEU3UXPYFY54	traded as a % of total 41.48% 15.59%	executed as a % of total 7.41% 3.70%	0	Aggressive	Directed orders 0.00% 0.00%
Nomura International PLC HSBC BANK PLC ICBC Standard Bank PLC	DGQCSV2PHVF7I2743539 MP6I5ZYZBEU3UXPYFY54 F01VVKN4DRF2NWKGQ283	traded as a % of total 41.48% 15.59% 11.51%	executed as a % of total 7.41% 3.70% 11.11%	0	Aggressive	Directed orders 0.00% 0.00% 0.00%
Nomura International PLC HSBC BANK PLC ICBC Standard Bank PLC Citigroup Global Markets Limited Goldman Sachs International	DGQCSV2PHVF7l2743539 MP6l5ZYZBEU3UXPYFY54 F01VVKN4DRF2NWKGQ283 XKZZ2JZF41MRHTR1V493 W22LROWP2IHZNBB6K528	traded as a % of total 41.48% 15.59% 11.51% 9.94%	executed as a % of total 7.41% 3.70% 11.11% 25.93%	0	Aggressive	Directed orders 0.00% 0.00% 0.00% 0.00%
Nomura International PLC HSBC BANK PLC ICBC Standard Bank PLC Citigroup Global Markets Limited Goldman Sachs International LEGAL UNIT CLASS OF INSTRUMENT	DGQCSV2PHVF7l2743539 MP6l5ZYZBEU3UXPYFY54 F01VVKN4DRF2NWKGQ283 XKZZ2JZF41MRHTR1V493 W22LROWP2IHZNBB6K528 529900BXKPMXQTRE1V05 (C) Interest Rate Derivatives	traded as a % of total 41.48% 15.59% 11.51% 9.94% 5.24%	executed as a % of total 7.41% 3.70% 11.11% 25.93% 7.41%	Passive orders	Aggressive	Directed orders 0.00% 0.00% 0.00% 0.00%
Nomura International PLC HSBC BANK PLC ICBC Standard Bank PLC Citigroup Global Markets Limited Goldman Sachs International LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	DGQCSV2PHVF7l2743539 MP6l5ZYZBEU3UXPYFY54 F01VVKN4DRF2NWKGQ283 XKZZ2JZF41MRHTR1V493 W22LROWP2IHZNBB6K528 529900BXKPMXQTRE1V05 (C) Interest Rate Derivatives Y	traded as a % of total 41.48% 15.59% 11.51% 9.94% 5.24%	executed as a % of total 7.41% 3.70% 11.11% 25.93% 7.41%	Passive orders	Aggressive	Directed orders 0.00% 0.00% 0.00% 0.00%
Nomura International PLC HSBC BANK PLC ICBC Standard Bank PLC Citigroup Global Markets Limited Goldman Sachs International LEGAL UNIT CLASS OF INSTRUMENT	DGQCSV2PHVF7l2743539 MP6l5ZYZBEU3UXPYFY54 F01VVKN4DRF2NWKGQ283 XKZZ2JZF41MRHTR1V493 W22LROWP2IHZNBB6K528 529900BXKPMXQTRE1V05 (C) Interest Rate Derivatives	traded as a % of total 41.48% 15.59% 11.51% 9.94% 5.24%	executed as a % of total 7.41% 3.70% 11.11% 25.93% 7.41%	Passive orders	Aggressive	Directed orders 0.00% 0.00% 0.00% 0.00%
Nomura International PLC HSBC BANK PLC ICBC Standard Bank PLC Citigroup Global Markets Limited Goldman Sachs International LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	DGQCSV2PHVF7l2743539 MP6l5ZYZBEU3UXPYFY54 F01VVKN4DRF2NWKGQ283 XKZZ2JZF41MRHTR1V493 W22LROWP2IHZNBB6K528 529900BXKPMXQTRE1V05 (C) Interest Rate Derivatives Y	traded as a % of total 41.48% 15.59% 11.51% 9.94% 5.24% - Futures and options ad	executed as a % of total 7.41% 3.70% 11.11% 25.93% 7.41%	Passive orders	Aggressive	Directed orders 0.00% 0.00% 0.00% 0.00%
Nomura International PLC HSBC BANK PLC ICBC Standard Bank PLC Citigroup Global Markets Limited Goldman Sachs International LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type	DGQCSV2PHVF7I2743539 MP6I5ZYZBEU3UXPYFY54 F01VVKN4DRF2NWKGQ283 XKZZ2JZF41MRHTR1V493 W22LROWP2IHZNBB6K528 529900BXKPMXQTRE1V05 (C) Interest Rate Derivatives Y Professional	traded as a % of total 41.48% 15.59% 11.51% 9.94% 5.24% - Futures and options ad	executed as a % of total 7.41% 3.70% 11.11% 25.93% 7.41% dmitted to trading on a tra	Passive orders	Aggressive orders	Directed orders 0.00% 0.00% 0.00% 0.00% Percentage of

LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type	529900BXKPMXQTRE1V05 (C) Interest Rate Derivatives Y Professional	- Swaps, forwards and o	ther interest rate derivati	ves		
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 CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type	529900BXKPMXQTRE1V05 (E) Structured Finance Instru Y Professional	ments				
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	81.84%	81.82%	-	-	0.00%
Oppenheimer & Co. Inc.	254900VH02JQR2L8XD64	10.76%	9.09%	-	-	0.00%
Citigroup Global Markets Limited	XKZZ2JZF41MRHTR1V493	5.01%	4.55%	-	-	0.00%
BRIDPORT & CIE SA	213800VGFKO4K5IJUI20	2.39%	4.55%	-	-	0.00%
LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(F) Equity Derivatives - Futur	es and options admitted	d to trading on a trading ve	nue		
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR						
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 CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type	529900BXKPMXQTRE1V05 (F) Equity Derivatives - Swap Y Professional	s and other equity deriv	ratives			
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 CLASS OF INSTRUMENT	529900BXKPMXQTRE1V05 (G) Securitised Derivatives -	Warrants and Certificate	e Derivatives			
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type	N Professional					
	Toressionar					
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	7LTWFZYICNSX8D621K86	46.22%	73.89%	-	-	0.00%
Nomura International PLC	DGQCSV2PHVF7I2743539	31.80%	1.05%	-	-	0.00%
BNP PARIBAS	R0MUWSFPU8MPRO8K5P83	16.61%	9.21%	-	-	0.00%
SIX SIS AG	549300A3XI3YWROC2J57	1.36%	7.69%	3.54%	84.91%	0.00%
Goldman Sachs International	W22LROWP2IHZNBB6K528	0.91%	0.47%	-	-	0.00%
LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	529900BXKPMXQTRE1V05 (I) Exchange traded products N	6 (Exchange traded funds	, exchange traded notes a	ind exchange trac	led commoditie	s)
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%	21.89%	13.63%	0.00%
LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT		/Evolution and traded funde	ovehange traded notes	nd ovehange tra	lad commaditie	
NOTIFICATION IF <1 AVERAGE TRADE DED DUGINESS DAY IN THE DEVICUS YEAR		6 (Exchange traded funds	, exchange traded notes a	ind exchange trac	led commoditie	s)
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type	N	s (Exchange traded funds	s, exchange traded notes a	ind exchange trac	led commoditie	es)
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type		(Exchange traded funds	s, exchange traded notes a	ind exchange trac	led commoditie	s)
	N	Froportion of Volume traded as a % of total	exchange traded notes a Proportion of Trades executed as a % of total	Percentage of	ded commoditie Percentage of Aggressive orders	Percentage of Directed orders
Client Type	N Professional	Proportion of Volume	Proportion of Trades	Percentage of	Percentage of Aggressive	Percentage of
Client Type Executing Broker (ranked by Volume in descending order)	N Professional	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of	Percentage of Aggressive	Percentage of Directed orders
Client Type Executing Broker (ranked by Volume in descending order) Flow Traders B.V.	N Professional LEI 549300CLJI9XDH12XV51	Proportion of Volume traded as a % of total 32.01%	Proportion of Trades executed as a % of total 5.96%	Percentage of	Percentage of Aggressive	Percentage of Directed orders 0.00%
Client Type Executing Broker (ranked by Volume in descending order) Flow Traders B.V. DEUTSCHE BANK AKTIENGESELLSCHAFT	N Professional LEI 549300CLJI9XDH12XV51 7LTWFZYICNSX8D621K86	Proportion of Volume traded as a % of total 32.01% 23.21%	Proportion of Trades executed as a % of total 5.96% 83.89%	Percentage of	Percentage of Aggressive	Percentage of Directed orders 0.00% 0.00%

LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	529900BXKPMXQTRE1V05 (I) Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities) R 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.	549300CLII9XDH12XV51	27.04%	4.46%	-	-	0.00%	
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	19.60%	62.88%	-	-	0.00%	
Commerzbank Aktiengesellschaft	851WYGNLUQLFZBSYGB56	19.55%	4.22%	-	-	0.00%	
SIX SIS AG	549300A3XI3YWROC2J57	15.53%	25.04%	21.89%	13.63%	0.00%	
CANACCORD GENUITY LIMITED	ZBU7VFV5NIMN4ILRFC23	10.41%	1.32%	-	-	0.00%	
LEGAL UNIT CLASS OF INSTRUMENT	529900BXKPMXQTRE1V05 (J) Other instruments						
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	.,						
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	91.11%	19.18%	-	-	0.00%	
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	4.56%	40.41%	-	-	1.69%	
SIX SIS AG	549300A3XI3YWROC2J57	3.66%	38.36%	10.73%	41.71%	0.00%	
Commerzbank Aktiengesellschaft	851WYGNLUQLFZBSYGB56	0.28%	0.68%	-	-	0.00%	
Flow Traders B.V.	549300CLJI9XDH12XV51	0.25%	0.68%	-	-	0.00%	