retail clients

Class of Instrument	Equities — Shares & Depositary Receipts Tick size liquidity bands 5 and 6 (from 2 000 trades per day)					
Notification if < 1 average trade per business day in the previous year	N					
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	executed as	passive	aggressive	Percentage of directed orders	
XETRA (XETR)	27,49%	23,78%	17,59%	82,41%	5,03%	
NEW YORK STOCK EXCHANGE, INC. (XNYS)	19,71%	16,01%	8,21%	91,79%	5,22%	
NASDAQ/NGS (GLOBAL SELECT MARKET) (XNGS)	14,68%	5,02%	11,90%	88,10%	0,00%	
LONDON STOCK EXCHANGE (XLON)	8,45%	6,33%	39,62%	60,38%	33,96%	
NASDAQ/NMS (GLOBAL MARKET) (XNMS)	6,00%	10,51%	12,50%	87,50%	6,82%	

Class of Instrument	Equities — Shares & Depositary Receipts Tick size liquidity bands 3 and 4 (from 80 to 1 999 trades per day)					
Notification if < 1 average trade per business day in the previous year	N					
Top five execution venues ranked in	Proportion of volume	Proportion of orders	Percentage of	Percentage of	Percentage of	
terms of trading volumes	traded as a	executed as	passive	aggressive	directed	
(descending order)	percentage of total in	percentage of total in	orders	orders	orders	
	that class	that class				
WIENER BOERSE AG (XVIE)	26,18%	36,10%	30,95%	69,05%	3,97%	
BUDAPEST STOCK EXCHANGE (XBUD)	15,40%	25,50%	68,54%	31,46%	1,12%	
NEW YORK STOCK EXCHANGE, INC. (XNYS)	14,50%	5,16%	11,11%	88,89%	0,00%	
NASDAQ/NGS (GLOBAL SELECT MARKET) (XNGS)	11,55%	4,01%	0,00%	100,00%	0,00%	
SIX SWISS EXCHANGE (XSWX)	11,28%	9,17%	56,25%	43,75%	0,00%	

Class of Instrument	Equities — Shares & Depositary Receipts Tick size liquidity band 1 and 2 (from 0 to 79 trades per day)					
Notification if < 1 average trade per business day in the previous year	N					
Top five execution venues ranked in	Proportion of volume	Proportion of orders	Percentage of	O	Percentage of	
terms of trading volumes	traded as a	executed as	passive	aggressive	directed	
(descending order)	percentage of total in	percentage of total in	orders	orders	orders	
	that class	that class				
EURONEXT - EURONEXT PARIS (XPAR)	41,55%	14,48%	88,10%	11,90%	2,38%	
NASDAQ/NGS (GLOBAL SELECT MARKET) (XNGS)	26,53%	20,00%	0,00%	100,00%	0,00%	
NEW YORK STOCK EXCHANGE, INC. (XNYS)	15,44%	15,86%	6,52%	93,48%	8,70%	
OTHER OTC (OOTC)	4,28%	17,93%	11,54%	88,46%	0,00%	
TOKYO STOCK EXCHANGE (XTKS)	2,32%	10,34%	0,00%	100,00%	0,00%	

Class of Instrument	Debt instruments Bonds				
Notification if < 1 average trade per business day in the previous year	J				
Top five execution venues ranked in	Proportion of volume	Proportion of orders	Percentage of	Percentage of	Percentage of
terms of trading volumes	traded as a	executed as	passive	aggressive	directed
(descending order)	percentage of total in	percentage of total in	orders	orders	orders
	that class	that class			
BLOOMBERG TRADING FACILITY LIMITED (BMTF)	93,27%	70,94%	2,41%	97,59%	0,00%
RAIFFEISEN BANK INTERNATIONAL					
AG - SYSTEMATIC INTERNALISER	4,83%	8,55%	0,00%	100,00%	0,00%
BOERSE STUTTGART (XSTU)	0,59%	8,55%	0,00%	100,00%	0,00%
DEUTSCHE BOERSE AG (XFRA)	0,34%	2,56%	66,67%	33,33%	0,00%
SIX SWISS EXCHANGE (XSWX)	0,25%	2,56%	0,00%	100,00%	0,00%

Class of Instrument	Debt instruments Money markets instru	ments			
Notification if < 1 average trade per business day in the previous year	J				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	passive	Percentage of aggressive orders	Percentage of directed orders
BLOOMBERG TRADING FACILITY LIMITED (BMTF)	100,00%	100,00%	0,00%	100,00%	0,00%
Name und Kennung (MIC oder LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name und Kennung (MIC oder LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name und Kennung (MIC oder LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name und Kennung (MIC oder LEI)	N.A.	N.A.	N.A.	N.A.	N.A.

Class of Instrument	Interest rates derivatives Futures and options admitted to trading on a trading venue					
Notification if < 1 average trade per business day in the previous year	N.A.					
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	passive	Percentage of aggressive orders	Percentage of directed orders	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier (MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	

Class of Instrument	Interest rates derivatives Swaps, forwards, and other interest rates derivatives					
Notification if < 1 average trade per business day in the previous year	N.A.					
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	executed as	passive	Percentage of aggressive orders	Percentage of directed orders	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	

Class of Instrument	credit derivatives Futures and options admitted to trading on a trading venue					
Notification if < 1 average trade per business day in the previous year	N.A.					
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	passive	Percentage of aggressive orders	Percentage of directed orders	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	

Class of Instrument	credit derivatives Other credit derivative	es			
Notification if < 1 average trade per business day in the previous year	N.A.				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	passive	aggressive	Percentage of directed orders
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.

Class of Instrument	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.A.					
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	executed as	passive	Percentage of aggressive orders	Percentage of directed orders	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	

Class of Instrument	currency derivatives Swaps, forwards, and other currency derivatives					
Notification if < 1 average trade per business day in the previous year	N.A.					
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	executed as	passive	O	Percentage of directed orders	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier (MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	

Class of Instrument	Structured finance instruments					
Notification if < 1 average trade per business day in the previous year	N.A.					
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	executed as	passive	Percentage of aggressive orders	Percentage of directed orders	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	

Class of Instrument	Equity Derivatives Options and Futures admitted to trading on a trading venue					
Notification if < 1 average trade per business day in the previous year	N.A.					
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	passive	Percentage of aggressive orders	Percentage of directed orders	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier (MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	

Class of Instrument	Equity Derivatives Swaps and other equity derivatives					
Notification if < 1 average trade per business day in the previous year	N.A.					
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	executed as	passive	aggressive	Percentage of directed orders	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	

Class of Instrument	Securitized Derivatives Warrants and Certificate Derivatives					
Notification if < 1 average trade per business day in the previous year	J					
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	executed as	passive	aggressive	Percentage of directed orders	
OFF-EXCHANGE TRANSACTIONS - LISTED INSTRUMENTS (XOFF)	69,51%	26,67%	0,00%	100,00%	0,00%	
BOERSE STUTTGART (XSTU)	17,54%	33,33%	20,00%	80,00%	0,00%	
WIENER BOERSE AG (XVIE)	12,42%	33,33%	80,00%	20,00%	40,00%	
DEUTSCHE BOERSE AG (XFRA)	0,53%	6,67%	0,00%	100,00%	0,00%	
Name und Kennung (MIC oder LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	

Class of Instrument	Securitized Derivatives Other securitized derivatives					
Notification if < 1 average trade per business day in the previous year	J					
Top five execution venues ranked in	Proportion of volume	•	J	Percentage of	J	
terms of trading volumes	traded as a	executed as	passive	00	directed	
(descending order)	percentage of total in	percentage of total in	orders	orders	orders	
	that class	that class				
OFF-EXCHANGE TRANSACTIONS - LISTED INSTRUMENTS (XOFF)	96,56%	88,46%	0,00%	100,00%	0,00%	
WIENER BOERSE AG (XVIE)	1,72%	5,77%	0,00%	100,00%	33,33%	
SIX SWISS EXCHANGE (XSWX)	1,07%	1,92%	0,00%	100,00%	100,00%	
BOERSE BERLIN (XBER)	0,43%	1,92%	0,00%	100,00%	0,00%	
DEUTSCHE BOERSE AG (XFRA)	0,23%	1,92%	0,00%	100,00%	0,00%	

Class of Instrument	Commodities derivatives and emission allowances Derivatives Options and Futures admitted to trading on a trading venue					
Notification if < 1 average trade per business day in the previous year	N.A.					
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	passive	Percentage of aggressive orders	Percentage of directed orders	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier (MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	

Class of Instrument	Commodities derivatives and emission allowances Derivatives Other commodities derivatives and emission allowances derivatives					
Notification if < 1 average trade per business day in the previous year	N.A.					
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	executed as	passive	Percentage of aggressive orders	Percentage of directed orders	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.	

Class of Instrument	Contracts for difference				
Notification if < 1 average trade per business day in the previous year	N.A.				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	passive	Percentage of aggressive orders	Percentage of directed orders
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier (MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.

Class of Instrument	Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities)					
Notification if < 1 average trade per business day in the previous year	N					
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	executed as	passive	Percentage of aggressive orders	Percentage of directed orders	
BLOOMBERG TRADING FACILITY LIMITED (BMTF)	87,43%	91,87%	0,00%	100,00%	0,00%	
XETRA (XETR)	4,37%	2,85%	3,57%	96,43%	5,36%	
LONDON STOCK EXCHANGE (XLON)	2,21%	0,81%	0,00%	100,00%	0,00%	
DEUTSCHE BOERSE AG (XFRA)	1,85%	1,58%	0,00%	100,00%	0,00%	
EURONEXT - EURONEXT PARIS (XPAR)	1,84%	0,61%	8,33%	91,67%	0,00%	

Class of Instrument	Emission allowances				
Notification if < 1 average trade per business day in the previous year	N.A.				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	passive	Percentage of aggressive orders	Percentage of directed orders
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.

Class of Instrument	Other instruments				
Notification if < 1 average trade per business day in the previous year	J				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	passive	Percentage of aggressive orders	Percentage of directed orders
EURONEXT - EURONEXT PARIS (XPAR)	80,99%	66,67%	100,00%	0,00%	0,00%
SIX SWISS EXCHANGE - BLUE CHIPS SEGMENT (XVTX)	19,01%	33,33%	0,00%	100,00%	0,00%
Name und Kennung (MIC oder LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name und Kennung (MIC oder LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name und Kennung (MIC oder LEI)	N.A.	N.A.	N.A.	N.A.	N.A.