

Class of Instrument	AA99						
	Equity instruments- Shar						
Tick Size	not used						
Information on whether a	an average of < 1 trade per business day we	is executed in the previou	s 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 classProportion of orders executed as percentage of total in that classPercentage of passive ordersPercentage of aggressive ordersPercentage of directed orders							
Morgan Stanley Europe S	SE (54930056FHWP7GIWYY08)	87,61%	78,89%	100,00%	0,00%	100,00%	
Commerzbank AG Ffm (851WYGNLUQLFZBSYGB56)	5,53%	10,70%	100,00%	0,00%	100,00%	
UBS Europe SE (529900	7QVIQ7IO64NX37)	5,33%	10,11%	100,00%	0,00%	100,00%	
Goldman Sachs Bank Eu	rope (8IBZUGJ7JPLH368JE346)	1,35%	0,21%	100,00%	0,00%	100,00%	
FINNCAP LTD (213800I	DSWHX26RRA1N75)	0,14%	0,07%	100,00%	0,00%	100,00%	



ty instruments- Shar dity band A and liquidity band B age of < 1 trade per business day was	s executed in the previous								
	s executed in the previous								
age of < 1 trade per business day was	s executed in the previous								
	=	Information on whether an average of < 1 trade per business day was executed in the previous year N							
nked in terms of trading volumes ding order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders				
30056FHWP7GIWYY08)	59,65%	60,91%	100,00%	0,00%	100,00%				
7IO64NX37)	23,94%	29,21%	100,00%	0,00%	100,00%				
IBZUGJ7JPLH368JE346)	8,20%	8,00%	100,00%	0,00%	100,00%				
N5TO2UJR67I36)	5,91%	0,67%	100,00%	0,00%	100,00%				
PEDUR61H13)	0,89%	0,04%	100,00%	0,00%	100,00%				
	7IO64NX37) IBZUGJ7JPLH368JE346) N5TO2UJR67I36)	30056FHWP7GIWYY08) 59,65% 7IO64NX37) 23,94% IBZUGJ7JPLH368JE346) 8,20% N5TO2UJR67I36) 5,91%	30056FHWP7GIWYY08) 59,65% 60,91% 7IO64NX37) 23,94% 29,21% IBZUGJ7JPLH368JE346) 8,20% 8,00% NSTO2UJR67I36) 5,91% 0,67%	30056FHWP7GIWYY08) 59,65% 60,91% 100,00% 7IO64NX37) 23,94% 29,21% 100,00% IBZUGJ7JPLH368JE346) 8,20% 8,00% 100,00% NSTO2UJR67I36) 5,91% 0,67% 100,00%	30056FHWP7GIWYY08) 59,65% 60,91% 100,00% 0,00% 7IO64NX37) 23,94% 29,21% 100,00% 0,00% IBZUGJ7JPLH368JE346) 8,20% 8,00% 100,00% 0,00% NSTO2UJR67I36) 5,91% 0,67% 100,00% 0,00%				



Class of Instrument	AA99					
	Equity instruments- Shar					
Tick Size	liquidity band C and liquidity band D					
Information on whether a	an average of < 1 trade per business day wa	as executed in the previou	s year N			
-	nues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
L Morgan Stanley Europe S	SE (54930056FHWP7GIWYY08)	66,62%	71,50%	100,00%	0,00%	100,00%
Skandi Enskilda Bk Stocl	k (F3JS33DEI6XQ4ZBPTN86)	10,61%	4,09%	100,00%	0,00%	100,00%
Goldman Sachs Bank Eu	rope (8IBZUGJ7JPLH368JE346)	7,02%	14,51%	100,00%	0,00%	100,00%
Jefferies GmbH (5493004	4I3LZM39BWHQ75)	6,00%	0,13%	100,00%	0,00%	100,00%
Baader Bank AG (529900	DJFOPPEDUR61H13)	2,15%	0,03%	100,00%	0,00%	100,00%



Class of Instrument	AA99					
	Equity instruments- Shar					
Tick Size	liquidity band E and liquidity band F					
Information on whether	an average of < 1 trade per business day wa	as executed in the previous	s year N			
Top five execution ve	enues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Morgan Stanley Europe	SE (54930056FHWP7GIWYY08)	73,10%	76,72%	100,00%	0,00%	100,00%
UBS Europe SE (529900	07QVIQ7IO64NX37)	8,12%	5,53%	100,00%	0,00%	100,00%
Jefferies GmbH (549300	04I3LZM39BWHQ75)	5,35%	1,14%	100,00%	0,00%	100,00%
Baader Bank AG (52990	0JFOPPEDUR61H13)	4,71%	2,94%	100,00%	0,00%	100,00%
Goldman Sachs Bank Eu	urope (8IBZUGJ7JPLH368JE346)	3,67%	3,98%	100,00%	0,00%	100,00%
Joldman Sachs Bank Et	arope (81BZUGJ/JPLH368JE346)	3,0/%	5,98%	100,00%	0,00%	100,00%



Class of Instrument	AB99						
	Equity instruments- Shar						
Tick Size	not used						
Information on whether an average of < 1 trade per business day was executed in the previous year Y							
1	nues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders	
BNP Paribas Paris (R0M	UWSFPU8MPRO8K5P83)	69,12%	15,11%	100,00%	0,00%	100,00%	
Morgan Stanley Europe S	SE (54930056FHWP7GIWYY08)	30,88%	84,89%	100,00%	0,00%	100,00%	



Class of Instrument	AB99						
	Equity instruments- Shar						
Tick Size	liquidity band A and liquidity band B						
Information on whether an average of < 1 trade per business day was executed in the previous year N							
Top five execution ve	enues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders	
Morgan Stanley Europe	SE (54930056FHWP7GIWYY08)	84,43%	96,90%	100,00%	0,00%	100,00%	
UBS Europe SE (52990	07QVIQ7IO64NX37)	8,87%	0,21%	100,00%	0,00%	100,00%	
Goldman Sachs Bank Eu	urope (8IBZUGJ7JPLH368JE346)	6,69%	2,89%	100,00%	0,00%	100,00%	



Class of Instrument	AB99							
	Equity instruments- Shar							
Tick Size	liquidity band C and liquidity band D							
Information on whether	Information on whether an average of < 1 trade per business day was executed in the previous year N							
	enues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders		
Morgan Stanley Europe	SE (54930056FHWP7GIWYY08)	94,50%	85,22%	100,00%	0,00%	100,00%		
Goldman Sachs Bank Eu	arope (8IBZUGJ7JPLH368JE346)	5,50%	14,78%	100,00%	0,00%	100,00%		



Class of Instrument	AB99						
	Equity instruments- Shar						
Tick Size	liquidity band E and liquidity band F						
Information on whether an average of < 1 trade per business day was executed in the previous year Y							
Top five execution venues ranked in terms of trading volumes (descending order)Proportion of volume traded as a percentage of total in that classProportion of orders executed as percentage of total in that classPercentage of passive ordersPercentage of aggressive ordersPercentage of directed orders							
Morgan Stanley Europe S	SE (54930056FHWP7GIWYY08)	100,00%	100,00%	100,00%	0,00%	100,00%	



Class of Instrument	AC99						
	Exchange traded product						
Tick Size	not used						
Information on whether an average of < 1 trade per business day was executed 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 classProportion of orders executed as percentage of total in that classPercentage of passive ordersPercentage of aggressive ordersPercentage of directed orders							
Flow Traders B V (54930	0CLЛ9XDH12XV51)	29,50%	33,79%	100,00%	0,00%	100,00%	
Jane Street Financial Ltd.	(549300ZHEHX8M31RP142)	24,58%	29,62%	100,00%	0,00%	100,00%	
Optiver V.O.F. (7245009)	KRYSAYB2QCC29)	19,91%	14,99%	100,00%	0,00%	100,00%	
Morgan Stanley Europe S	E (54930056FHWP7GIWYY08)	19,50%	15,22%	100,00%	0,00%	100,00%	
Donner & Reuschel AG (23ZYQ4KSBEDVYML8NC86)	4,67%	5,40%	100,00%	0,00%	100,00%	



Class of Instrument	AC99					
	Exchange traded product					
Tick Size	liquidity band A and liquidity band B					
Information on whether	an average of < 1 trade per business day wa	as executed in the previou	s year Y			
Top five execution ve	enues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Flow Traders B V (5493	00CLJI9XDH12XV51)	93,22%	93,25%	100,00%	0,00%	100,00%
Jane Street Financial Lto	I. (549300ZHEHX8M31RP142)	6,78%	6,75%	100,00%	0,00%	100,00%



Class of Instrument	AD99						
	other instruments						
Tick Size	liquidity band A and liquidity band B						
Information on whether an average of < 1 trade per business day was executed in the previous year N							
Top five execution v	enues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders	
Morgan Stanley Europe	SE (54930056FHWP7GIWYY08)	84,70%	84,95%	100,00%	0,00%	100,00%	
Liquidnet EU Limited (2	2138005N5TO2UJR67I36)	7,83%	8,36%	100,00%	0,00%	100,00%	
Goldman Sachs Bank E	urope (8IBZUGJ7JPLH368JE346)	7,46%	6,69%	100,00%	0,00%	100,00%	



Class of Instrument A	XE99						
0	ther instruments						
Tick Size n	ot used						
Information on whether an average of < 1 trade per business day was executed in the previous year Y							
-	es ranked in terms of trading volumes scending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders	
OCTO FINANCES SA (969)	500378YE4MLGK0898)	81,67%	78,86%	100,00%	0,00%	100,00%	
Goldman Sachs Bk Europe S	SE (8IBZUGJ7JPLH368JE346)	10,55%	10,28%	100,00%	0,00%	100,00%	
P Morgan SE FFM (549300	0ZK53CNGEEI6A29)	3,95%	3,82%	100,00%	0,00%	100,00%	
Morgan Stanley Europe SE ((54930056FHWP7GIWYY08)	3,36%	6,56%	100,00%	0,00%	100,00%	
Millennium Europe Limited	(213800M4PALWKTSLLI88)	0,48%	0,48%	100,00%	0,00%	100,00%	



Class of Instrument	AE99					
	other instruments					
Tick Size	liquidity band A and liquidity band B					
Information on whether	an average of < 1 trade per business day wa	as executed in the previous	s year Y			
	enues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Liquidnet EU Limited (2	138005N5TO2UJR67I36)	53,74%	10,19%	100,00%	0,00%	100,00%
Morgan Stanley Europe	SE (54930056FHWP7GIWYY08)	46,26%	89,81%	100,00%	0,00%	100,00%



Class of Instrument	AE99					
	other instruments					
Tick Size	liquidity band C and liquidity band D					
nformation on whether	an average of < 1 trade per business day wa	s executed in the previous	s year Y			
	enues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Iorgan Stanley Europe	SE (54930056FHWP7GIWYY08)	100,00%	100,00%	100,00%	0,00%	100,00%



Class of Instrument	BA10					
	Debt instruments					
Tick Size	not used					
Information on whether a	an average of < 1 trade per business day wa	s executed in the previou	s year N			
-	nues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Deutsche Bk Ffm (7LTW	FZYICNSX8D621K86)	11,33%	10,29%	100,00%	0,00%	100,00%
BofA Securities Europe S	SA (549300FH0WJAPEHTIQ77)	10,40%	9,79%	100,00%	0,00%	100,00%
Soc Gen Paris (O2RNE8)	IBXP4R0TD8PU41)	9,22%	9,26%	100,00%	0,00%	100,00%
Citigroup Global Markets	s EU (6TJCK1B7E7UTXP528Y04)	9,09%	8,87%	100,00%	0,00%	100,00%
HSBC Trinkaus Dssd (JU	NT405OW8OY5GN4DX16)	7,41%	8,27%	100,00%	0,00%	100,00%



Class of Instrument	BA11					
	Debt instruments					
Tick Size	not used					
Information on whether a	an average of < 1 trade per business day wa	as executed in the previous	s year Y			
	enues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
J P Morgan SE FFM (549	9300ZK53CNGEEI6A29)	47,86%	23,14%	100,00%	0,00%	100,00%
Deutsche Bk Ffm (7LTW	/FZYICNSX8D621K86)	11,81%	5,45%	100,00%	0,00%	100,00%
HSBC Trinkaus Dssd (JU	JNT405OW8OY5GN4DX16)	7,29%	3,43%	100,00%	0,00%	100,00%
Toronto Dominion Bk Lc	dn (PT3QB789TSUIDF371261)	5,90%	3,13%	100,00%	0,00%	100,00%
Barclays Bank PLC Irela	nd (2G5BKIC2CB69PRJH1W31)	4,70%	5,15%	100,00%	0,00%	100,00%
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Debt instruments					
not used					
average of < 1 trade per business day was	s executed in the previous	s year Y			
•	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
2ZCNRR8UK83OBTEK2170)	41,20%	44,00%	100,00%	0,00%	100,00%
9500378YE4MLGK0898)	18,38%	20,00%	100,00%	0,00%	100,00%
1 (2G5BKIC2CB69PRJH1W31)	14,23%	14,00%	100,00%	0,00%	100,00%
165GRDQ39W63PHVONY02)	12,35%	6,00%	100,00%	0,00%	100,00%
EU (6TJCK1B7E7UTXP528Y04)	5,76%	8,00%	100,00%	0,00%	100,00%
	2ZCNRR8UK83OBTEK2170) 59500378YE4MLGK0898) d (2G5BKIC2CB69PRJH1W31) (165GRDQ39W63PHVONY02)	Less ranked in terms of trading volumes less ending order)Proportion of volume traded as a percentage of total in that class2ZCNRR8UK83OBTEK2170)41,20%59500378YE4MLGK0898)18,38%d (2G5BKIC2CB69PRJH1W31)14,23%(165GRDQ39W63PHVONY02)12,35%	Best ranked in terms of trading volumes lescending order)Proportion of volume traded as a percentage of total in that classProportion of orders executed as percentage of total in that class2ZCNRR8UK83OBTEK2170)41,20%44,00%59500378YE4MLGK0898)18,38%20,00%41 (2G5BKIC2CB69PRJH1W31)14,23%14,00%1165GRDQ39W63PHVONY02)12,35%6,00%	Les ranked in terms of trading volumes lescending order)Proportion of volume traded as a percentage of total in that classProportion of orders executed as percentage of total in that classPercentage of passive orders2ZCNRR8UK83OBTEK2170)41,20%44,00%100,00%59500378YE4MLGK0898)18,38%20,00%100,00%d (2G5BKIC2CB69PRJH1W31)14,23%14,00%100,00%2165GRDQ39W63PHVONY02)12,35%6,00%100,00%	Les ranked in terms of trading volumes lescending order)Proportion of volume traded as a percentage of total in that classProportion of orders executed as percentage of total in that classPercentage of passive ordersPercentage of aggressive orders2ZCNRR8UK83OBTEK2170)41,20%44,00%100,00%0,00%22CNRR8UK83OBTEK2170)41,20%44,00%100,00%0,00%41(2G5BKIC2CB69PRJH1W31)18,38%20,00%100,00%0,00%165GRDQ39W63PHVONY02)12,35%6,00%100,00%0,00%



Class of Instrument	BA13							
	Debt instruments							
Tick Size	not used							
Information on whether an average of < 1 trade per business day was executed in the previous year Y								
-	enues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders		
J P Morgan SE FFM (549	9300ZK53CNGEEI6A29)	22,58%	22,10%	100,00%	0,00%	100,00%		
NATIXIS S A (KX1WK4	48MPD4Y2NCUIZ63)	11,94%	12,11%	100,00%	0,00%	100,00%		
Deutsche Bk Ffm (7LTW	/FZYICNSX8D621K86)	9,33%	9,18%	100,00%	0,00%	100,00%		
Citigroup Global Markets	s EU (6TJCK1B7E7UTXP528Y04)	8,79%	8,56%	100,00%	0,00%	100,00%		
DZ Bank AG (529900HN	NOAA1KXQJUQ27)	7,91%	8,03%	100,00%	0,00%	100,00%		



Class of Instrument	BA14						
	Debt instruments						
Tick Size	not used						
Information on whether an average of < 1 trade per business day was executed in the previous year N							
	nues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders	
BofA Securities Europe S	SA (549300FH0WJAPEHTIQ77)	11,43%	10,41%	100,00%	0,00%	100,00%	
HSBC Trinkaus Dssd (JU	JNT405OW8OY5GN4DX16)	9,94%	9,46%	100,00%	0,00%	100,00%	
Jane Street Financial Ltd.	. (549300ZHEHX8M31RP142)	6,70%	5,97%	100,00%	0,00%	100,00%	
Morgan Stanley Europe S	SE (54930056FHWP7GIWYY08)	5,42%	4,88%	100,00%	0,00%	100,00%	
Deutsche Bk Ffm (7LTW	FZYICNSX8D621K86)	4,76%	4,36%	100,00%	0,00%	100,00%	



Class of Instrument	BA15					
	Debt instruments					
Tick Size	not used					
Information on whether a	n average of < 1 trade per business day wa	s executed in the previous	s year Y			
	nues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Citigroup Global Markets	EU (6TJCK1B7E7UTXP528Y04)	19,86%	20,33%	100,00%	0,00%	100,00%
Foronto Dominion Bk Ld	n (PT3QB789TSUIDF371261)	11,52%	10,52%	100,00%	0,00%	100,00%
Jefferies GmbH (5493004	H3LZM39BWHQ75)	8,11%	7,71%	100,00%	0,00%	100,00%
HSBC Trinkaus Dssd (JU	NT405OW8OY5GN4DX16)	8,06%	7,01%	100,00%	0,00%	100,00%
Barclays Bank PLC Irelar	nd (2G5BKIC2CB69PRJH1W31)	5,45%	5,09%	100,00%	0,00%	100,00%



Class of Instrument	BB99						
	Structured financial prod						
Tick Size	not used						
Information on whether a	an average of < 1 trade per business day wa	as executed in the previou	s year Y				
Top five execution venues ranked in terms of trading volumes (descending order)Proportion of volume traded as a percentage of total in that classProportion of orders executed as percentage of total in that classPercentage of passive ordersPercentage of aggressive ordersPercentage of directed orders							
ING Bk Adam (3TK20IV	/IUJ8J3ZU0QE75)	36,65%	38,00%	100,00%	0,00%	100,00%	
Barclays Bank PLC Irelan	nd (2G5BKIC2CB69PRJH1W31)	26,65%	27,63%	100,00%	0,00%	100,00%	
Deutsche Bk Ffm (7LTW	FZYICNSX8D621K86)	19,99%	20,73%	100,00%	0,00%	100,00%	
HSBC Trinkaus Dssd (JU	JNT405OW8OY5GN4DX16)	7,12%	4,15%	100,00%	0,00%	100,00%	
BofA Securities Europe S	SA (549300FH0WJAPEHTIQ77)	2,96%	3,11%	100,00%	0,00%	100,00%	
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Class of Instrument	BD10					
	other derivatives					
Tick Size	not used					
Information on whether a	an average of < 1 trade per business day wa	s executed in the previous	s year Y			
Top five execution ver	nues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
J P Morgan SE FFM (549	9300ZK53CNGEEI6A29)	100,00%	100,00%	100,00%	0,00%	100,00%



Class of Instrument	BD21					
	Equity derivatives					
Tick Size	not used					
Information on whether a	an average of < 1 trade per business day wa	as executed in the previou	s year N			
	nues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
J P Morgan SE FFM (549	9300ZK53CNGEEI6A29)	100,00%	100,00%	100,00%	0,00%	100,00%



Class of Instrument	BD24						
	Currency derivatives						
Tick Size	not used						
Information on whether a	an average of < 1 trade per business day wa	s executed in the previous	s 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 classProportion of orders executed as percentage of total in that classPercentage of passive ordersPercentage of aggressive ordersPercentage of directed orders							
J P Morgan SE FFM (549	9300ZK53CNGEEI6A29)	100,00%	100,00%	100,00%	0,00%	100,00%	



Class of Instrument	BD99						
	other derivatives						
Tick Size	not used						
Information on whether an average of < 1 trade per business day was executed in the previous year N							
	enues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders	
J P Morgan SE FFM (54)	9300ZK53CNGEEI6A29)	100,00%	100,00%	100,00%	0,00%	100,00%	



Class of Instrument	BE21						
	securitized derivatives						
Tick Size	not used						
Information on whether an average of < 1 trade per business day was executed in the previous year Y							
	nues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders	
Morgan Stanley Europe S	SE (54930056FHWP7GIWYY08)	100,00%	100,00%	100,00%	0,00%	100,00%	



Class of Instrument	BE21						
	securitized derivatives						
Tick Size	liquidity band A and liquidity band B						
Information on whether an average of < 1 trade per business day was executed in the previous year Y							
	nues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders	
Morgan Stanley Europe S	E (54930056FHWP7GIWYY08)	100,00%	100,00%	100,00%	0,00%	100,00%	



Class of Instrument	BE99						
	securitized derivatives						
Tick Size	not used						
Information on whether an average of < 1 trade per business day was executed in the previous year Y							
	nues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders	
HSBC Trinkaus Dssd (JU	JNT405OW8OY5GN4DX16)	48,51%	48,17%	100,00%	0,00%	100,00%	
Millennium Europe Limi	ted (213800M4PALWKTSLLI88)	26,81%	26,76%	100,00%	0,00%	100,00%	
Raiffeisen Bank Intern. A	AG (9ZHRYM6F437SQJ6OUG95)	21,35%	21,41%	100,00%	0,00%	100,00%	
Erste Group Bank AG W	ien (PQOH26KWDF7CG10L6792)	3,24%	3,21%	100,00%	0,00%	100,00%	
Morgan Stanley Europe S	SE (54930056FHWP7GIWYY08)	0,09%	0,45%	100,00%	0,00%	100,00%	
Morgan Stanley Europe S	SE (54930056FHWP7GIWYY08)	0,09%	0,45%	100,00%	0,00%	100,00%	



Class of Instrument	BF99					
	Exchange traded product					
Tick Size	not used					
Information on whether a	an average of < 1 trade per business day wa	as executed in the previou	s year Y			
-	nues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Flow Traders B V (54930	00CLJI9XDH12XV51)	69,98%	65,80%	100,00%	0,00%	100,00%
Morgan Stanley Europe S	SE (54930056FHWP7GIWYY08)	27,58%	31,52%	100,00%	0,00%	100,00%
Optiver V.O.F. (7245009	KRYSAYB2QCC29)	2,44%	2,68%	100,00%	0,00%	100,00%



C999							
no specific classification							
not used							
Information on whether an average of < 1 trade per business day was executed in the previous year Y							
nues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders		
E (54930056FHWP7GIWYY08)	100,00%	100,00%	100,00%	0,00%	100,00%		
<u>ו</u>	no specific classification not used n average of < 1 trade per business day wa nues ranked in terms of trading volumes (descending order)	no specific classification not used n average of < 1 trade per business day was executed in the previous nues ranked in terms of trading volumes descending order) Proportion of volume traded as a percentage of total in that class	no specific classification not used n average of < 1 trade per business day was executed in the previous year	no specific classification not used n average of < 1 trade per business day was executed in the previous year Y mues ranked in terms of trading volumes descending order) Proportion of volume traded as a percentage of total in that class Percentage of total in that class	no specific classification not used n average of < 1 trade per business day was executed in the previous year Y nues 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 Proportion of orders executed as percentage of total in that class Proportion of orders		



Class of Instrument	C999						
	no specific classification						
Tick Size	liquidity band A and liquidity band B						
Information on whether an average of < 1 trade per business day was executed in the previous year Y							
	nues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders	
Morgan Stanley Europe S	E (54930056FHWP7GIWYY08)	100,00%	100,00%	100,00%	0,00%	100,00%	



Class of Instrument	C999						
	no specific classification						
Tick Size	liquidity band C and liquidity band D						
Information on whether an average of < 1 trade per business day was executed in the previous year Y							
	nues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders	
Morgan Stanley Europe S	E (54930056FHWP7GIWYY08)	100,00%	100,00%	100,00%	0,00%	100,00%	



Debt instruments					
not used					
n average of < 1 trade per business day wa	s executed in the previous	syear Y			
ues 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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
(2ZCNRR8UK83OBTEK2170)	38,73%	47,69%	100,00%	0,00%	100,00%
FZYICNSX8D621K86)	28,62%	21,73%	100,00%	0,00%	100,00%
d (2G5BKIC2CB69PRJH1W31)	25,45%	23,84%	100,00%	0,00%	100,00%
ope (549300SXSTGQY3EA1B18)	7,19%	6,74%	100,00%	0,00%	100,00%
	n average of < 1 trade per business day wa nues ranked in terms of trading volumes descending order) (2ZCNRR8UK83OBTEK2170) FZYICNSX8D621K86) d (2G5BKIC2CB69PRJH1W31)	n average of < 1 trade per business day was executed in the previous ues ranked in terms of trading volumes descending order) Proportion of volume traded as a percentage of total in that class (2ZCNRR8UK83OBTEK2170) 38,73% FZYICNSX8D621K86) 28,62% d (2G5BKIC2CB69PRJH1W31) 25,45%	n average of < 1 trade per business day was executed in the previous yearYues ranked in terms of trading volumes descending order)Proportion of volume traded as a percentage of total in that classProportion of orders executed as percentage of total in that class(2ZCNRR8UK83OBTEK2170)38,73%47,69%FZYICNSX8D621K86)28,62%21,73%d (2G5BKIC2CB69PRJH1W31)25,45%23,84%	n average of < 1 trade per business day was executed in the previous YearYues ranked in terms of trading volumes descending order)Proportion of volume traded as a percentage of total in that classProportion of orders executed as percentage of total in that classPercentage of passive orders(2ZCNRR8UK83OBTEK2170)38,73%47,69%100,00%FZYICNSX8D621K86)28,62%21,73%100,00%d (2G5BKIC2CB69PRJH1W31)25,45%23,84%100,00%	n average of < 1 trade per business day was executed in the previous IYues ranked in terms of trading volumes descending order)Proportion of volume traded as a percentage of total in that classProportion of orders excuted as percentage of total in that classPercentage of passive ordersPercentage of aggressive orders(ZZCNRR8UK83OBTEK2170)38,73%47,69%100,00%0,00%FZYICNSX8D621K86)28,62%21,73%100,00%0,00%d (2G5BKIC2CB69PRJH1W31)25,45%23,84%100,00%0,00%