

Top five execution venues

Class of Instrument	Equities - Shares & Depository Receipts Tick size liquidity bands 5 and 6 (from 2000 trades per day)				
Notification if < 1 average trade per business day in the previous year	Y				
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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
TRADEGATE EXCHANGE - FREIVERKEHR(XGAT)	54,3%	61,2%	0,1%	0,2%	77,2%
XETRA - REGULIERTER MARKT(XETA)	21,1%	13,8%	27,6%	57,7%	97,8%
BOERSE DUESSELDORF - QUOTRIX MTF(DUSD)	6,9%	6,4%	0,1%	0,2%	32,3%
BOERSE DUESSELDORF - QUOTRIX - REGULIERTER MARKT(DUSC)	5,6%	4,4%	0,0%	0,2%	14,1%
XETRA - FREIVERKEHR(XETB)	3,1%	3,8%	26,2%	57,1%	98,8%

Class of Instrument	Equities - Shares & Depository Receipts Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)				
Notification if < 1 average trade per business day in the previous year	Y				
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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
TRADEGATE EXCHANGE - FREIVERKEHR(XGAT)	66,7%	69,8%	0,1%	0,2%	77,7%
XETRA - REGULIERTER MARKT(XETA)	15,8%	13,2%	40,6%	47,1%	98,6%
BOERSE DUESSELDORF - QUOTRIX MTF(DUSD)	4,6%	4,3%	0,1%	0,2%	56,5%
XETRA - FREIVERKEHR(XETB)	3,3%	2,5%	36,5%	48,4%	98,9%
BOERSE STUTTGART - FREIVERKEHR(STUB)	3,1%	2,9%	0,1%	0,2%	97,9%

Class of Instrument	Equities - Shares & Depository 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	Y				
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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
TRADEGATE EXCHANGE - FREIVERKEHR(XGAT)	56,4%	58,5%	0,1%	0,2%	84,1%
BOERSE FRANKFURT - FREIVERKEHR(FRAB)	9,4%	12,5%	0,1%	0,3%	88,1%
BOERSE STUTTGART - FREIVERKEHR(STUB)	7,5%	7,2%	0,1%	0,2%	95,9%
BOERSE DUESSELDORF - QUOTRIX MTF(DUSD)	6,8%	6,0%	0,0%	0,2%	40,8%
XETRA - REGULIERTER MARKT(XETA)	6,2%	4,6%	42,3%	38,8%	97,8%

Class of Instrument	Debt instruments Bonds				
Notification if < 1 average trade per business day 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 class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
BLOOMBERG TRADING FACILITY B.V.(BTFF)	29,7%	1,4%	1,3%	5,1%	70,2%
OFF-EXCHANGE TRANSACTIONS - LISTED INSTRUMENTS(XOFF)	13,9%	20,4%	0,0%	0,1%	2,6%
BOERSE STUTTGART - FREIVERKEHR(STUB)	10,2%	31,1%	0,1%	0,3%	52,3%
BGC BROKERS LP - OTF(BGCO)	10,0%	0,0%	0,0%	4,5%	64,2%
BOERSE DUESSELDORF - QUOTRIX MTF(DUSD)	5,7%	20,8%	0,0%	0,2%	15,3%

Class of Instrument	Debt instruments Money markets instruments				
Notification if < 1 average trade per business day in the previous year	Y				

Top five investment firms

Class of Instrument	Equities - Shares & Depository Receipts Tick size liquidity bands 5 and 6 (from 2000 trades per day)				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms 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
ICF BANK AG Wertpapierhandelsbank(529900E89HA1I45HB613)	50,2%	63,8%	0,0%	0,1%	24,2%
VIRTU EUROPE TRADING LIMITED(213800EEC95PRUCEUP63)	41,5%	31,4%	0,0%	0,1%	36,4%
UBS Europe SE(5299007QVIQ7I064NX37)	8,3%	4,8%	0,0%	0,1%	11,0%
BLACKROCK INVESTMENT MANAGEMENT (UK) LIMITED(549300QXP30FD81KVQ43)	0,0%	0,0%	0,0%	0,0%	0,0%
()	0,0%	0,0%	0,0%	0,0%	0,0%

Class of Instrument	Equities - Shares & Depository Receipts Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms 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
ICF BANK AG Wertpapierhandelsbank(529900E89HA1I45HB613)	53,9%	51,6%	0,0%	0,2%	71,2%
VIRTU EUROPE TRADING LIMITED(213800EEC95PRUCEUP63)	45,5%	48,3%	0,0%	0,1%	39,3%
UBS Europe SE(5299007QVIQ7I064NX37)	0,6%	0,0%	0,0%	0,0%	50,0%
Raiffeisen Digital Bank AG(529900M2F7D5795H1A49)	0,0%	0,0%	0,0%	0,0%	100,0%
()	0,0%	0,0%	0,0%	0,0%	0,0%

Class of Instrument	Equities - Shares & Depository 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	Y				
Top five investment firms 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
ICF BANK AG Wertpapierhandelsbank(529900E89HA1I45HB613)	67,5%	84,1%	0,1%	0,1%	45,4%
VIRTU EUROPE TRADING LIMITED(213800EEC95PRUCEUP63)	29,0%	14,3%	0,1%	0,1%	13,2%
UBS Europe SE(5299007QVIQ7I064NX37)	3,4%	1,2%	0,0%	0,0%	0,5%
Raiffeisen Bank International AG(9ZHRYM6F437SQJ6OUG95)	0,1%	0,4%	0,0%	0,0%	100,0%
Baader Bank Aktiengesellschaft(529900JFOPPEDUR61H13)	0,0%	0,0%	0,0%	0,0%	100,0%

Class of Instrument	Debt instruments Bonds				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms 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
Landesbank Baden-Württemberg(B81CK4ESI35472RHJ606)	18,1%	21,4%	0,0%	0,0%	1,3%
CREDIT SUISSE BANK (EUROPE), S.A.(959800TMGPWX7NYM4R72)	14,5%	14,6%	0,0%	0,0%	0,3%
Landesbank Hessen-Thüringen Girozentrale(DIZES5CFO5K3I5R58746)	13,9%	3,3%	0,0%	0,0%	1,1%
BNP Paribas Emissions- und Handelsgesellschaft mbH(549300TS3U4JKMR1B479)	13,8%	10,2%	0,0%	0,0%	7,5%
GOLDMAN SACHS INTERNATIONAL(W22LROWP2IHZNB6K528)	12,7%	14,7%	0,0%	0,0%	0,0%

Class of Instrument	Debt instruments Money markets instruments				
Notification if < 1 average trade per business day in the previous year	Y				

Top five execution venues

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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
OFF-EXCHANGE TRANSACTIONS - LISTED INSTRUMENTS(XOFF)	50,1%	73,9%	0,0%	0,0%	0,8%
BLOOMBERG TRADING FACILITY B.V.(BTFE)	44,2%	0,4%	2,3%	4,5%	81,8%
EBM - MTF(EBMX)	2,5%	0,1%	0,0%	0,0%	57,1%
BOERSE STUTTGART - FREIVERKEHR(STUB)	2,2%	16,9%	0,1%	0,3%	31,6%
BOERSE FRANKFURT - FREIVERKEHR(FRAB)	0,9%	8,7%	0,2%	0,2%	92,7%

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	Y				
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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
EUREX DEUTSCHLAND(XEUR)	100,0%	100,0%	7,7%	92,3%	100,0%
()	0,0%	0,0%	0,0%	0,0%	0,0%
()	0,0%	0,0%	0,0%	0,0%	0,0%
()	0,0%	0,0%	0,0%	0,0%	0,0%
()	0,0%	0,0%	0,0%	0,0%	0,0%

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	Y				
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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Top five investment firms

Top five investment firms 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
UniCredit Bank AG(2ZCNRR8UK83OBTEK2170)	67,1%	64,7%	0,0%	0,0%	0,0%
Landesbank Hessen-Thüringen Girozentrale(DIZES5CFO5K3I5R58746)	12,9%	1,4%	0,0%	0,0%	0,0%
Bank Vontobel AG(549300L7V4MGECYRM576)	7,9%	12,9%	0,0%	0,0%	5,4%
Boerse Stuttgart cats GmbH(529900TW3YXY9C6T1G09)	5,2%	14,0%	0,0%	0,0%	100,0%
Landesbank Baden-Württemberg(B81CK4ESI35472RHJ606)	2,7%	3,1%	0,0%	0,0%	0,0%

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	Y				
Top five investment firms 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

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	Y				
Top five investment firms 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

Top five execution venues

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	Y				
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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Credit derivatives Other credit derivatives				
Notification if < 1 average trade per business day 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 class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

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	Y				
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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Currency derivatives Swaps, forwards, and other currency derivatives				
Notification if < 1 average trade per business day 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 class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Structured finance instruments				
Notification if < 1 average trade per business day in the previous year	Y				

Top five investment firms

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	Y				
Top five investment firms 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

Class of Instrument	Credit derivatives Other credit derivatives				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms 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

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	Y				
Top five investment firms 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

Class of Instrument	Currency derivatives Swaps, forwards, and other currency derivatives				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms 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

Class of Instrument	Structured finance instruments				
Notification if < 1 average trade per business day in the previous year	Y				

Top five execution venues

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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Top five investment firms

Top five investment firms 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

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	Y				
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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
EUREX DEUTSCHLAND(XEUR)	100,0%	100,0%	78,6%	20,2%	100,0%
()	0,0%	0,0%	0,0%	0,0%	0,0%
()	0,0%	0,0%	0,0%	0,0%	0,0%
()	0,0%	0,0%	0,0%	0,0%	0,0%
()	0,0%	0,0%	0,0%	0,0%	0,0%

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	Y				
Top five investment firms 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

Top five execution venues

Class of Instrument	Equity derivatives Swaps and other equity derivatives				
Notification if < 1 average trade per business day 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 class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XETRA - REGULIERTER MARKT(XETA)	29,4%	13,7%	28,5%	59,9%	91,1%
BOERSE STUTTGART - FREIVERKEHR(STUB)	28,1%	35,2%	0,1%	0,3%	64,6%
BOERSE DUESSELDORF - QUOTRIX MTF(DUSD)	19,7%	17,9%	0,1%	0,2%	13,2%
TRADEGATE EXCHANGE - FREIVERKEHR(XGAT)	11,7%	17,9%	0,1%	0,3%	96,7%
BOERSE FRANKFURT - FREIVERKEHR(FRAB)	9,5%	12,5%	0,1%	0,3%	96,5%

Class of Instrument	Securitized Derivatives Warrants and Certificate Derivatives				
Notification if < 1 average trade per business day 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 class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
BOERSE STUTTGART - FREIVERKEHR(STUB)	49,6%	52,2%	0,1%	0,4%	96,0%
BOERSE FRANKFURT - FREIVERKEHR(FRAB)	49,6%	47,3%	0,1%	0,3%	90,5%
TRADEGATE EXCHANGE - FREIVERKEHR(XGAT)	0,5%	0,1%	0,0%	0,1%	84,0%
BOERSE MUENCHEN - FREIVERKEHR(MUNB)	0,2%	0,0%	0,0%	0,0%	17,8%
BOERSE BERLIN - FREIVERKEHR(BERB)	0,1%	0,0%	0,0%	0,0%	90,0%

Class of Instrument	Securitized Derivatives Other securitized derivatives				
Notification if < 1 average trade per business day 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 class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

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	Y				
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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

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	Y				

Top five investment firms

Class of Instrument	Equity derivatives Swaps and other equity derivatives				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms 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
Boerse Stuttgart cats GmbH(529900TW3YXY9C6T1G09)	37,4%	50,1%	0,0%	0,0%	99,9%
Flow Traders B.V.(549300CLJ9XDH12XV51)	33,4%	26,3%	0,1%	0,0%	0,3%
BNP Paribas Emissions- und Handelsgesellschaft mbH(549300TS3U4JKMR1B479)	12,3%	2,9%	0,0%	0,0%	0,0%
Optiver V.O.F.(7245009KRYSAIB2QCC29)	9,5%	12,9%	0,0%	0,2%	8,8%
ICF BANK AG Wertpapierhandelsbank(529900E89HA1I45HB613)	3,2%	3,6%	0,0%	0,8%	76,6%

Class of Instrument	Securitized Derivatives Warrants and Certificate Derivatives				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms 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
Boerse Stuttgart cats GmbH(529900TW3YXY9C6T1G09)	99,7%	99,1%	0,0%	0,1%	99,4%
ICF BANK AG Wertpapierhandelsbank(529900E89HA1I45HB613)	0,3%	0,9%	0,0%	0,0%	67,1%
GOLDMAN SACHS INTERNATIONAL(W22LROWP2IHZNB6K528)	0,0%	0,0%	0,0%	0,0%	0,0%
Pax-Bank eG(529900SCADYND9KVP627)	0,0%	0,0%	0,0%	0,0%	100,0%
EUREX CLEARING AKTIENGESELLSCHAFT(529900LN3S50JPU47S06)	0,0%	0,0%	0,0%	0,0%	0,0%

Class of Instrument	Securitized Derivatives Other securitized derivatives				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms 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

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	Y				
Top five investment firms 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

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	Y				

Top five execution venues

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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Top five investment firms

Top five investment firms 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

Top five execution venues

Class of Instrument	Contracts for difference				
Notification if < 1 average trade per business day 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 class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

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	Y				
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	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XETRA - REGULIERTER MARKT(XETA)	61,2%	30,0%	30,6%	58,1%	45,5%
BOERSE DUESSELDORF - QUOTRIX MTF(DUSD)	21,6%	29,6%	0,1%	0,3%	14,3%
TRADEGATE EXCHANGE - FREIVERKEHR(XGAT)	10,5%	26,1%	0,1%	0,3%	94,8%
BOERSE STUTTGART - FREIVERKEHR(STUB)	3,9%	6,7%	0,1%	0,3%	97,7%
BOERSE FRANKFURT - REGULIERTER MARKT(FRAA)	0,7%	2,3%	0,1%	0,3%	97,8%

Class of Instrument	Emission allowances				
Notification if < 1 average trade per business day 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 class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Other instruments

Top five investment firms

Class of Instrument	Contracts for difference				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms 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

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	Y				
Top five investment firms 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
JANE STREET FINANCIAL LIMITED(549300ZHEHX8M31RP142)	44,4%	32,6%	0,0%	0,2%	16,0%
Optiver V.O.F.(7245009KRYSAIB2QCC29)	17,6%	24,1%	0,0%	0,0%	25,6%
Flow Traders B.V.(549300CLJ9XDH12XV51)	14,6%	22,4%	0,0%	0,4%	20,0%
ICF BANK AG Wertpapierhandelsbank(529900E89HA1I45HB613)	13,1%	6,6%	0,1%	0,2%	53,4%
SOCIETE GENERALE(O2RNE8IBXP4R0TD8PU41)	9,9%	12,7%	0,0%	0,0%	38,6%

Class of Instrument	Emission allowances				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms 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

Class of Instrument	Other instruments

