

* Next to the top 5 execution venues for each asset classes an additional line is added where applicable to show the proportion of internally matched trades.

Retail clients data:

Equities — Shares & Depositary Receipts

Class of Instrument	Tick size liquidity bands 5 and 6				
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	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Euronext Amsterdam	45.1%	31%	78%	22%	0%
Xetra	20.7%	21%	74%	26%	0%
Euronext Paris	4.8%	11%	59%	41%	0%
Euronext Brussels	0.5%	1%	83%	17%	0%
Internal matching *	28.7%	36%	27%	73%	0%

Class of Instrument	Tick size liquidity bands 3 and 4				
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	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Euronext Amsterdam	51%	29%	77%	23%	0%
Xetra	17%	18%	60%	40%	0%
Euronext Paris	10%	23%	66%	34%	0%
Euronext Brussels	6%	6%	71%	29%	0%
internal matching *	15%	23%	25%	75%	0%

Class of Instrument	Tick size liquidity bands 1 and 2				
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	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Euronext Paris	32%	40%	63%	37%	0%
Euronext Amsterdam	30%	21%	69%	31%	0%
Xetra	18%	18%	57%	43%	0%
Euronext Brussels	8%	6%	71%	29%	0%
Internal matching *	8%	9%	27%	73%	0%

Debt instruments

Class of Instrument	Debt instruments				
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	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Euronext Amsterdam	80.8%	74%	63%	37%	0%
Borse Frankfurt	16.8%	21%	98%	2%	0%
Euronext Paris	1.2%	3%	67%	33%	0%
Euronext Brussels	0.6%	1%	52%	48%	0%
Euronext Lisbon	0.3%	1%	87%	13%	0%

Interest rates derivatives

Class of Instrument	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

Credit rates derivatives

Class of Instrument	Credit 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

Currency derivatives

Class of Instrument	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
Euronext NYSE Liffe	100%	100%	76%	24%	0%

Structured finance instruments

Class of Instrument	Structured finance instruments				
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	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Euronext Amsterdam	67.218%	62%	89%	11%	0%
Euronext Paris	7.000%	6%	70%	30%	0%
Euronext Brussels	1.133%	1%	87%	13%	0%
Euronext Lisbon	0.004%	0%	82%	18%	0%
Internal matching *	24.644%	30%	20%	80%	0%

Equity Derivatives

Class of Instrument	Equity Derivatives				
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	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Euronext NYSE Liffe	80%	76%	78%	22%	0%
Eurex	7%	10%	69%	31%	0%
Borsa Italiana Derivatives	0%	0%	75%	25%	0%
Nordic Derivatives Exchange	0%	1%	66%	34%	0%
Internal matching*	12%	13%	30%	70%	0%

Securitized Derivatives

Class of Instrument	Securitized Derivatives				
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	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Borse Frankfurt	92.866%	94%	76%	24%	0%
Euronext Paris	5.788%	5%	74%	26%	0%
Euronext Amsterdam	1.305%	0%	58%	42%	0%
Euronext Lisbon	0.037%	0%	92%	8%	0%
Internal matching*	0.004%	0%	40%	60%	0%

Commodities derivatives and emission allowances Derivatives

Class of Instrument	Commodities derivatives and emission allowances 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

CONTRACTS FOR DIFFERENCE (CFD'S)

Class of Instrument	Contracts For Differences (Norwegian CFD's)				
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
OTC	100%	100%	66%	34%	0%

Exchange traded products
(Exchange traded funds, exchange traded notes and exchange traded commodities)

Class of Instrument	Exchange traded products (ETFs, ETNs and ETCs)				
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	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Euronext Amsterdam	45.0%	36%	56%	44%	0%
Xetra	26.3%	28%	50%	50%	0%
Euronext Paris	16.7%	14%	57%	43%	0%
Borse Frankfurt	0.1%	0%	87%	13%	0%
Internal matching *	11.8%	21%	28%	72%	0%

Professional clients data:

Equities — Shares & Depository Receipts

Class of Instrument	Tick size liquidity bands 5 and 6				
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	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Euronext Amsterdam	3.70%	1%	75%	25%	0%
Xetra	2.37%	2%	58%	42%	0%
Euronext Brussels	0.53%	0%	71%	29%	0%
Euronext Lisbon	0.16%	0%	0%	100%	0%
Internal matching *	92.89%	96%	0%	0%	100%

Class of Instrument	Tick size liquidity bands 3 and 4				
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	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Xetra	10%	5%	50%	50%	0%
Euronext Amsterdam	2%	1%	63%	37%	0%
Euronext Lisbon	2%	1%	50%	50%	0%
Euronext Brussels	1%	1%	76%	24%	0%
Internal matching *	84%	92%	0%	0%	100%

Class of Instrument	Tick size liquidity bands 1 and 2				
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	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Euronext Amsterdam	1.5%	0%	39%	61%	0%
OMX Stockholm	1.0%	0%			
Xetra	1.0%	1%	56%	44%	0%
Euronext Brussels	0.3%	0%	67%	33%	0%
Internal matching *	95.7%	98%	0%	0%	100%

Debt instruments

Class of Instrument	Debt instruments				
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
Euronext Amsterdam	53%	55%	35%	65%	0%
Borse Frankfurt	47%	45%	100%	0%	0%

Interest rates derivatives

Class of Instrument	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

Credit rates derivatives

Class of Instrument	Credit 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

Currency derivatives

Class of Instrument	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

Structured finance instruments

Class of Instrument	Structured finance instruments				
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	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Euronext Amsterdam	11.41%	12%	42%	58%	0%
Euronext Paris	0.22%	1%	27%	73%	0%
Euronext Brussels	0.16%	0%	41%	59%	0%
Euronext Lisbon	0.00%	0%			
Internal matching *	88.21%	86%	0%	0%	100%

Equity Derivatives

Class of Instrument	Equity derivatives				
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	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Eurex	5.09%	2%	55%	45%	0%
Euronext NYSE Liffe	3.40%	5%	57%	43%	0%
Borsa Italiana Derivatives	0.00165378%	0%	75%	25%	0%
Nordic Derivatives Exchange	0.0001%	0%	100%	0%	0%
Internal matching *	91.50%	93%	0%	0%	100%

Securitized Derivatives

Class of Instrument	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
Borse Frankfurt	99.98%	90%	100%	0%	0%
Euronext Paris	0.01%	3%	33%	67%	0%
Euronext Amsterdam	0.00%	3%	33%	67%	0%
Euronext Lisbon	0.00%	1%	0%	100%	0%
Internal matching *	0.01%	2%	0%	0%	100%

Commodities derivatives and emission allowances Derivatives

Class of Instrument	Commodities derivatives and emission allowances 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

CONTRACTS FOR
DIFFERENCE (CFD'S)

Class of Instrument	Contracts For Differences				
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

Exchange traded products
(Exchange traded funds,
exchange traded notes and
exchange traded commodities)

Class of Instrument	Exchange traded products (ETFs, ETNs and ETCs)				
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	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Euronext Amsterdam	22.70%	1%	30%	70%	0%
Euronext Paris	9.35%	1%	33%	67%	0%
Xetra	5.97%	1%	37%	63%	0%
Euronext Brussels	0.13%	0%			
Internal matching *	61.85%	98%	0%	0%	100%