

## 2019 MiFID II Reporting

Top five execution venues ranked in terms of trading volumes		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
Equity						
	UBS Paine Webber	26.24%	23.85%	N/A	N/A	0.00%
	JP Morgan	23.29%	25.69%	N/A	N/A	0.00%
	Goldman Sachs	16.86%	15.60%	N/A	N/A	0.00%
	Scotiabank	12.58%	13.76%	N/A	N/A	0.00%
	Citibank	9.11%	10.09%	N/A	N/A	0.00%
Notification if <1 average trade per business day in the previous year		Y				
Top five execution venues ranked in terms of trading volumes		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
Debt Instrument						
	Guy Butler	100.00%	100.00%	N/A	N/A	0.00%
Notification if <1 average trade per business day in the previous year		Y				
Top five execution venues ranked in terms of trading volumes		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
Interest Rate Derivatives						
	N/A	N/A	N/A	N/A	N/A	0.00%
	N/A	N/A	N/A	N/A	N/A	0.00%
Notification if <1 average trade per business day in the previous year		N/A				
Top five execution venues ranked in terms of trading volumes		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 Product						
	N/A	N/A	N/A	N/A	N/A	0.00%
Notification if <1 average trade per business day in the previous year		N/A				

Equity Derivatives	Top five execution venues ranked in terms of trading volumes	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
	Goldman Sachs	49.16%	46.67%	N/A	N/A	0.00%
	Credit Suisse	35.18%	35.56%	N/A	N/A	0.00%
	Citibank	15.21%	13.33%	N/A	N/A	0.00%
	JP Morgan (London)	0.45%	4.44%	N/A	N/A	0.00%
	Notification if <1 average trade per business day in the previous year	Y				
Securitized Derivatives	Top five execution venues ranked in terms of trading volumes	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
	Notification if <1 average trade per business day in the previous year	N				
Commodity Derivatives	Top five execution venues ranked in terms of trading volumes	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
	JP Morgan	64.82%	75.00%	N/A	N/A	0.00%
	Credit Suisse	35.18%	25.00%	N/A	N/A	0.00%
	Notification if <1 average trade per business day in the previous year	Y				