

MIFID II RTS 28 Report (Execution of Orders) For the Period: 1 January 2020 to 31 December 2020 inclusive ("2020 Calendar Year")

Equities					
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 volume traded as a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
RBC Europe Limited TXDSU46SXBWIGJ8G8E98	31.72%		N/A	N/A	0.000%
Atlantic Equities LLP 213800327M9B4D9S1559	20.57%		N/A	N/A	0.000%
Cowen Inc 5493008Q10EFC5WBED75	5.89%		N/A	N/A	0.000%
Piper Sandler Limited 2138008LHD1TOYE4JE90	5.60%		N/A	N/A	0.000%
NUMIS SECURITIES LIMITED 213800P3F4RT97WDSX47	5.55%		N/A	N/A	0.000%

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 volume traded as a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
J.P. Morgan Securities PLC K6Q0W1PS1L1O4IQL9C32	11.45%		N/A	N/A	0.0000%
TULLETT PREBON 549300BMVW85YF9FGN67	11.40%		N/A	N/A	0.0000%
Lloyds Banking Group PLC 549300PPXHEU2JFCAM85	11.05%		N/A	N/A	0.0000%
HSBC SECURITIES MP6I5ZYZBEU3UXPYFY54	10.96%		N/A	N/A	0.0000%
Royal Bank of Scotland Group Limited 213800A6USK4WBXUF680	10.87%		N/A	N/A	0.0000%

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Exchange Traded Products					
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 volume traded as a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Jane Street Financial Limited 549300ZHEHX8M31RP142	86.81%		N/A	N/A	0.0000%
Atlantic Equities LLP 213800327M9B4D9S1559	8.20%		N/A	N/A	0.0000%
Cowen Inc 5493008Q10EFC5WBED75	4.47%		N/A	N/A	0.0000%
Piper Sandler Limited 2138008LHD1TOYE4JE90	0.52%		N/A	N/A	0.0000%