

2019 Debt - Professional

Class of Instrument	Debt - Bonds				
Notification if < 1 average trade per business day in the previous year					
Top five execution venues ranked in terms of trading volumes (descending order) Name and Venue Identifier	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 FRANKFURT - FREIVERKEHR FRAB	50.38%	28.13%	55.56%	44.44%	0.00%
LONDON STOCK EXCHANGE XLON	28.28%	34.38%	72.73%	27.27%	0.00%
LONDON STOCK EXCHANGE - MTF XLOM	14.23%	6.25%	100.00%	0.00%	0.00%
EURO MTF EMTF	3.77%	15.63%	100.00%	0.00%	0.00%
IRISH STOCK EXCHANGE - ALL MARKET XDUB	3.33%	12.50%	100.00%	0.00%	0.00%