



Method name	LC-MS/MS-ESI(-)-6 (corresponds to QuPpe M1.7)							
Instrument	LC-MS/MS							
Chromatographic method	LC							
Extraction method	QuPpe							
Clean-up	no							
Use of AP (analyte protectant)	no							
Internal standard	respective IL-IS							
Instrument parameters								
Ionisation mode	ESI(-)							
Column	Waters APPC, 130Å, 5 µm, 2.1 mm x 100 mm							
Pre-column	Waters APPC VanGuard Cartridge, 130Å, 5µm, 2.1 mm X 5 mm							
Column temperature (°C)	50							
Eluent A1	1.2% formic acid + 10 mmol NH ₄ -formiate in water							
Eluent B1	0.5% formic acid in ACN							
Gradient	%A	Flow [mL/min]		Time [min]				
	10	0.5		0				
	10	0.5		0.5				
	80	0.5		1.5				
	90	0.5		4.5				
	90	0.5		17.5				
	10	0.5		17.6				
	10	0.5		23				
Injection volume (µL)	10							
Acquired mass transitions	Target		Qualifier 1		Qualifier 2		Qualifier 3	
	Q1 (m/z)	Q3 (m/z)	Q1 (m/z)	Q3 (m/z)	Q1 (m/z)	Q3 (m/z)	Q1 (m/z)	Q3 (m/z)
Perchlorate	99	83	101	85				
Perchlorate ¹⁸ O ₃ (IL-IS)	107	89	109	91				
Dimethyl-phosphate (DMP)	125	63	125	110	125	62		
Diethyl-phosphate (DEP)	153	125	153	79	153	63		
O,O-Dimethyl-thiophosphate (DMTP)	141	79	141	47	141	63		
O,O-Diethyl-thiophosphate (DETP)	169	95	169	141	169	63		
O,O-Dimethyl-dithiophosphate (DMDTP)	157	142	157	112	157	111		
O,O-Diethyl-dithiophosphate (DEDTP)	185	111	185	79	185	157		