Instrument blank measurements of clean 2% HNO_3 solution by ICP-MS

Sample date and time	Mean (x) or standard deviation (s)	Na µg/L	Mg µg/L	Al µg/L	K µg/L	Ca µg/L	Sc µg/L	Ti µg/L	V µg/L	Cr µg/L	Mn µg/L	Fe µg/L	Co µg/L	Ni µg/L	Cu µg/L	Zn µg/L	Ga µg/L	Rb µg/L	Sr µg/L	Y µg/L	Nb µg/L	Ag µg/L	Cd µg/L	Sn µg/L	Cs µg/L	Ba µg/L	La µg/L	Ce µg/L	Pr µg/L	Nd µg/L	Sm µg/L	Eu µg/L	Gd µg/L	Tb µg/L	Dy µg/L	Ho µg/L	Er µg/L	Tm µg/L	Yb µg/L	Lu µg/L	Pb µg/L	Th µg/L	U µg/L
01/06/2009 19:28	x	-2.300E-04	-1.000E-05	-3.300E-04		1.460E-03	-1.000E-05	4.000E-05	0.000E+00	0.000E+00	0.000E+00	3.800E-04	0.000E+00	0.000E+00	8.000E-05	1.000E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	-5.000E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	s	4.843E-02	1.446E-02	1.193E-02		8.722E-01	9.100E-04	1.496E-02	5.800E-04	9.900E-04	1.640E-03	4.661E-02	3.000E-04	2.380E-03	1.282E-02	8.385E-02	3.400E-04	5.400E-04	3.600E-04	1.500E-04	3.200E-04	4.100E-04	3.400E-04	4.100E-04	0.000E+00	9.100E-04	5.000E-05	9.000E-05	0.000E+00	0.000E+00	1.800E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.000E-05	0.000E+00	3.100E-04	1.000E-05	1.000E-05
02/06/2009 00:36	x	-7.200E-04	-1.500E-04	1.600E-04		-8.500E-04	0.000E+00	4.000E-05	-1.000E-05	0.000E+00	0.000E+00	-5.300E-04	0.000E+00	0.000E+00	-1.000E-05	-2.000E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.000E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	s	9.923E-02	1.878E-02	5.658E-02		2.176E-01	2.280E-03	2.866E-02	1.980E-03	4.070E-03	2.100E-03	3.512E-02	0.000E+00	2.890E-03	1.082E-02	1.262E-02	4.600E-04	1.880E-03	6.000E-04	0.000E+00	1.900E-04	4.300E-04	2.100E-04	1.030E-03	0.000E+00	9.210E-03	1.100E-04	1.500E-03	1.300E-04	1.340E-03	2.100E-04	5.000E-05	1.500E-04	8.000E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.000E-05	3.000E-05	2.000E-05
02/06/2009 05:25	x	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	s	1.173E-01	3.893E-02	5.988E-02		6.263E-01	1.080E-03	1.528E-02	2.460E-03	1.750E-03	1.270E-03	8.350E-03	5.800E-04	1.430E-03	1.189E-02	7.507E-02	0.000E+00	1.370E-03	1.080E-03	0.000E+00	1.900E-04	2.700E-04	0.000E+00	9.000E-04	0.000E+00	1.030E-03	6.000E-05	1.600E-04	4.000E-05	2.900E-04	0.000E+00	5.000E-05	0.000E+00	3.000E-05	0.000E+00	0.000E+00	0.000E+00	5.000E-05	0.000E+00	1.600E-04	2.000E-05	1.000E-05
11/09/2009 19:23	x	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	s	1.743E-01	1.943E-02	1.861E-01		1.004E+00	3.870E-03	6.918E-02	2.290E-03	4.220E-03	1.440E-03	9.508E-02	1.450E-03	6.430E-03	5.570E-03	9.356E-02	1.010E-03	5.690E-03	3.730E-03	6.200E-04	1.140E-03	1.710E-03	0.000E+00	5.400E-03	1.300E-04	2.690E-03	2.600E-04	3.500E-04	1.000E-04	0.000E+00	1.100E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.500E-05	1.100E-04	0.000E+00	6.900E-04	8.000E-05	4.000E-05
12/09/2009 01:45	x	2.887E-01	1.408E-01	5.811E-02		1.096E+00	-3.020E-03	2.080E-02	-1.940E-03	-5.340E-03	3.890E-03	1.075E-01	-9.400E-04	-1.560E-03	3.240E-03	-1.255E-02	3.800E-04	-7.610E-03	2.900E-04	-3.100E-04	4.540E-03	-6.290E-03	0.000E+00	2.240E-03	-4.100E-04	1.574E-02	-2.600E-04	-2.700E-04	2.000E-05	2.600E-04	-1.600E-04	0.000E+00	0.000E+00	0.000E+00	5.000E-05	1.000E-05	4.000E-05	-3.000E-05	-6.000E-05	0.000E+00	-2.880E-03	8.500E-04	-1.400E-04
	s	5.932E-02	1.187E-01	1.178E-01		1.632E+00	0.000E+00	1.049E-01	1.950E-03	4.650E-03	8.240E-03	9.095E-02	8.900E-04	4.610E-03	7.040E-03	7.174E-02	2.500E-03	1.980E-03	1.100E-03	0.000E+00	1.400E-03	1.030E-03	0.000E+00	1.200E-03	2.800E-04	3.890E-03	9.000E-05	9.000E-05	1.000E-04	3.000E-04	0.000E+00	1.000E-04	0.000E+00	1.100E-04	3.000E-05	7.000E-05	0.000E+00	0.000E+00	0.000E+00	1.190E-03	1.400E-04	3.000E-05
12/09/2009 03:45	x	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	s	5.589E-01	4.012E-02	2.243E-01		4.224E-01	0.000E+00	4.375E-02	5.040E-03	1.239E-02	2.570E-03	1.187E-01	8.600E-04	3.420E-03	1.780E-02	5.579E-02	0.000E+00	9.870E-03	1.640E-03	4.100E-04	2.050E-03	7.100E-04	2.100E-03	4.060E-03	8.200E-04	6.780E-03	3.700E-04	5.000E-05	0.000E+00	3.500E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.000E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.000E-05	4.000E-04	7.000E-05	4.000E-05
05/01/2010 21:45	x	-2.333E-01	-4.333E-01	-1.175E+00		-1.416E+00	6.200E-04	-1.774E-01	-4.430E-03	-1.780E-03	-2.341E-02	-1.408E+00	-6.000E-04	2.920E-03	-4.260E-03	1.930E-03	-5.700E-04	0.000E+00	-3.190E-03	-6.200E-04	-9.200E-04	0.000E+00	-1.200E-04	1.030E-03	-3.000E-05	6.100E-03	-1.300E-04	2.000E-05	1.000E-05	5.100E-04	5.500E-04	1.400E-04	2.900E-04	8.000E-05	-6.000E-05	-2.000E-05	-5.000E-05	0.000E+00	-6.000E-05	0.000E+00	4.300E-04	-1.000E-05	1.000E-05
	s	1.524E-01	9.527E-02	2.426E-02		6.154E-01	3.550E-03	8.830E-02	1.202E-02	6.530E-03	1.000E-05	5.051E-02	0.000E+00	8.500E-03	8.760E-03	1.752E-02	2.910E-03	3.400E-04	2.280E-03	1.100E-04	1.500E-04	5.900E-04	0.000E+00	1.350E-03	5.000E-05	1.496E-02	1.500E-04	3.500E-04	1.000E-04	1.030E-03	5.900E-04	3.100E-04	1.400E-04	7.000E-05	7.000E-05	4.000E-05	5.000E-05	0.000E+00	0.000E+00	0.000E+00	1.030E-03	5.000E-05	2.000E-05
05/01/2010 23:14	x	2.628E-01	4.715E-01	1.265E+00		1.553E+00	-4.700E-04	1.969E-01	6.690E-03	1.650E-03	2.496E-02	1.548E+00	6.200E-04	-2.520E-03	4.720E-03	-1.630E-03	6.300E-04	-6.000E-05	3.510E-03	6.600E-04	7.000E-04	-8.000E-05	1.300E-04	-1.370E-03	3.000E-05	-5.820E-03	1.200E-04	-4.000E-05	0.000E+00	-4.600E-04	-5.200E-04	-1.300E-04	-2.500E-04	-7.000E-05	6.000E-05	2.000E-05	6.000E-05	0.000E+00	-6.500E-04	-3.000E-05	-1.000E-05
	s	7.638E-02	2.074E-01	1.147E-01		1.629E+00	3.770E-03	2.570E-01	1.509E-02	4.980E-03	1.752E-02	7.306E-02	1.400E-03	6.200E-03	1.223E-02	2.927E-02	1.750E-03	1.200E-04	5.250E-03	6.000E-04	1.450E-03	6.400E-04	5.000E-04	4.700E-04	9.000E-05	6.900E-03	3.500E-04	3.900E-04	1.700E-04	5.100E-04	1.700E-04	9.000E-05	2.200E-04	3.000E-05	1.300E-04	2.000E-05	5.000E-05	2.000E-05	8.000E-05	2.000E-05	3.100E-04	7.000E-05	4.000E-05
21/05/2010 19:11	x	-2.396E+00	-2.587E-01	-2.538E-01	0.000E+00	-2.010E+00	-3.500E-04	-4.640E-03	-3.700E-04	-2.760E-03	-2.140E-03	-5.185E-01	-1.100E-03	0.000E+00	-1.696E-02	-2.570E-01		-4.400E-04	-7.400E-04	3.000E-05	1.700E-04	1.030E-03	4.400E-04	0.000E+00	-1.000E-04	-4.520E-03	0.000E+00	-1.700E-04	-3.000E-05	3.200E-04	-2.700E-04	-1.000E-05	-7.000E-05	2.000E-05	1.000E-05	0.000E+00	2.000E-05	0.000E+00	-2.000E-05	1.000E-05	0.000E+00	-1.100E-04	-2.000E-05
	s	1.234E-01	2.879E-02	6.514E-02	8.764E-01	4.138E-01	6.840E-03	5.610E-02	2.130E-03	2.270E-03	2.650E-03	6.384E-02	8.500E-04	3.430E-03	4.650E-03	1.270E-02		2.000E-04	4.400E-04	7.000E-05	3.200E-04	4.100E-04	4.800E-04	1.600E-03	3.000E-05	1.830E-03	1.200E-04	2.500E-04	6.000E-05	2.600E-04	4.800E-04	5.000E-05	1.900E-04	4.000E-05	5.000E-05	1.000E-05	1.000E-04	2.000E-05	0.000E+00	1.000E-05	8.000E-05	7.000E-05	1.200E-04
24/05/2010 13:46	x	1.512E-01	1.887E-02	2.032E-02	4.296E-01	1.850E-01	4.700E-04	-3.450E-03	2.300E-04	4.900E-04	2.800E-04	1.219E-02	6.700E-04	3.320E-03	3.910E-03	2.975E-02		1.600E-04	2.100E-04	1.000E-05	2.000E-05	5.800E-04	0.000E+00	-1.000E-05	2.000E-05	2.120E-03	1.000E-05	1.000E-04	1.000E-05	1.300E-04	3.800E-04	1.000E-05	7.000E-05	0.000E+00	2.000E-05	0.000E+00	0.000E+00	0.000E+00	9.100E-04	0.000E+00	0.000E+00
	s	2.194E-01	5.685E-02	1.963E-02	6.179E-01	3.386E-01	3.570E-03	4.110E-02	1.990E-03	2.590E-03	1.010E-03	8.034E-02	1.000E-03	2.410E-03	9.050E-03	6.890E-03		4.100E-04	3.600E-04	3.000E-05	9.000E-05	1.100E-04	1.800E-04	6.700E-04	4.000E-05	2.030E-03	1.200E-04	1.700E-04	2.000E-05	4.500E-04	1.800E-04	3.000E-05	1.700E-04	4.000E-05	4.000E-05	1.000E-05	0.000E+00	0.000E+00	0.000E+00	1.000E-05	4.000E-04	1.000E-05	2.000E-05
24/05/2010 13:53	x	-1.630E-01	-1.989E-02	-2.564E-02	-3.998E-01	-1.866E-01	-4.700E-04	3.290E-03	-6.000E-04	-5.000E-04	-3.100E-04	-1.491E-02	-6.600E-04	-3.300E-03	-3.890E-03	-2.967E-02		-1.800E-04	-2.200E-04	-1.000E-05	-6.000E-05	0.000E+00	0.000E+00	3.510E-03	-2.000E-05	-2.130E-03	-1.000E-05	-1.000E-04	-1.000E-05	-1.300E-04	-3.800E-04	-1.000E-05	-7.000E-05	0.000E+00	-2.000E-05	0.000E+00	0.000E+00	0.000E+00	-9.800E-04	-1.000E-05	0.000E+00
	s	2.860E-01	4.909E-02	3.937E-02	1.989E-01	4.986E-01	1.810E-03	2.246E-02	8.500E-04	4.140E-03	3.170E-03	3.742E-02	4.900E-04	3.230E-03	3.970E-03	1.062E-02		2.000E-04	4.200E-04	3.000E-05	1.700E-04	2.000E-04	1.800E-04	9.700E-04	2.000E-05	1.230E-03	3.000E-05	1.100E-04	5.000E-05	2.400E-04	2.600E-04	4.000E-05	1.200E-04	3.000E-05	0.000E+00	1.000E-05	0.000E+00	0.000E+00	2.100E-04	1.000E-05	3.000E-05
08/06/2010 15:17	x	7.800E-04	0.000E+00	-1.680E-03	8.382E+00	-5.400E-04	1.180E-03	-9.000E-05	4.200E-04	-3.600E-04	-1.766E-02	-1.280E+00	-3.000E-05	2.770E-03	1.530E-03	7.230E-03		-1.320E-03	-1.000E-05	-2.000E-05	-3.600E-04	0.000E+00	-6.000E-05	2.500E-04	-2.000E-05	-1.000E-05	2.000E-05	-2.000E-05	0.000E+00	-1.000E-05	8.000E-05	2.000E-05	9.000E-05	-1.000E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.000E-04	-7.000E-05	1.000E-05
	s	9.046E-02	1.421E-02	5.728E-02	6.214E-01	5.114E-01	3.860E-03	2.644E-02	1.150E-03	1.570E-03	1.700E-03	1.182E-02	2.000E-04	1.860E-03	2.300E-03	5.750E-03		1.500E-04	2.100E-04	2.000E-05	1.900E-04	5.100E-04	5.100E-04	7.800E-04	3.000E-05	1.020E-03	9.000E-05	7.000E-05	6.000E-05	1.100E-04	2.400E-04	6.000E-05	1.000E-04	0.000E+00	7.000E-05	0.000E+00	0.000E+00	0.000E+00	1.500E-04	6.000E-05	1.000E-05
08/06/2010 18:03	x	2.118E+00	8.596E+00	3.421E+00	9.219E-01	8.567E-01	-7.000E-04	1.633E-01	-5.710E-03	3.500E-04	1.961E-02	1.349E+00	4.000E-05	-1.040E-03	-1.760E-03	-9.530E-03		1.400E-03	2.165E-02	2.000E-05	2.800E-04	-9.100E-04	3.000E-05	-1.060E-03	2.000E-05	2.909E-02	-3.000E-05	1.000E-05	0.000E+00	1.000E-05	-8.000E-05	-2.000E-05	-9.000E-05	1.000E-05	0.000E+00	0.000E+00	-1.000E-05	0.000E+00	-3.000E-04	6.000E-05	-1.000E-05
	s	9.689E-02	2.723E-01	1.490E-01	5.955E-01	3.251E-01	2.230E-03	5.046E-02	3.100E-04	2.350E-03	3.070E-03	6.304E-02	1.700E-04	1.150E-03	2.440E-03	3.470E-03		5.900E-04	3.300E-03	5.000E-05	1.700E-04	1.000E-04	6.400E-04	9.800E-04	3.000E-05	2.990E-03	6.000E-05	1.500E-04	4.000E-05	9.000E-05	0.000E+00	2.000E-05	0.000E+00	1.000E-05	3.000E-05	1.000E-05	2.000E-05	1.000E-05	0.000E+00	1.000E-05	2.300E-04	2.000E-05	2.000E-05
	Mean instrumental blank (n=13)	**2.204E-03**	**6.550E-01**	**2.544E-01**	**1.867E+00**	**6.060E-03**	**-2.115E-04**	**1.529E-02**	**-4.400E-04**	**-6.346E-04**	**4.015E-04**	**-1.572E-02**	**-1.538E-04**	**4.538E-05**	**-1.031E-03**	**-2.087E-02**	**5.500E-05**	**-6.192E-04**	**1.654E-03**	**-1.846E-05**	**3.362E-04**	**-4.362E-04**	**3.231E-05**	**3.531E-04**	**-3.923E-05**	**3.119E-03**	**-2.154E-05**	**-3.615E-05**	**3.909E-22**	**4.846E-05**	**-3.077E-05**	**0.000E+00**	**-2.308E-06**	**2.308E-06**	**4.615E-06**	**7.692E-07**	**5.385E-06**	**-2.308E-06**	**-5.385E-06**	**7.692E-07**	**-2.438E-04**	**5.231E-05**	**-1.231E-05**
	Standard deviation of 13 mean blank valu	**9.347E-01**	**2.395E+00**	**1.077E+00**	**3.675E+00**	**9.337E-01**	**9.828E-04**	**8.866E-02**	**2.872E-03**	**1.768E-03**	**1.253E-02**	**8.223E-01**	**5.336E-04**	**1.999E-03**	**5.482E-03**	**7.213E-02**	**3.468E-04**	**2.177E-03**	**6.167E-03**	**2.759E-04**	**1.314E-03**	**1.810E-03**	**1.341E-04**	**1.286E-03**	**1.160E-04**	**9.434E-03**	**8.868E-05**	**9.456E-05**	**1.155E-05**	**2.319E-04**	**2.829E-04**	**5.598E-05**	**1.216E-04**	**3.140E-05**	**2.933E-05**	**8.623E-06**	**2.537E-05**	**8.321E-06**	**3.072E-05**	**2.774E-06**	**9.173E-04**	**2.430E-04**	**3.919E-05**
	Detection limit (3 x s (using mean of 13 s`	**4.852E-01**	**2.378E-01**	**2.598E-01**	**1.746E+00**	**2.102E+00**	**7.793E-03**	**1.889E-01**	**1.104E-02**	**1.212E-02**	**1.071E-02**	**1.765E-01**	**1.890E-03**	**1.106E-02**	**2.523E-02**	**1.119E-01**	**3.364E-03**	**5.386E-03**	**4.783E-03**	**4.823E-04**	**1.807E-03**	**1.643E-03**	**1.186E-04**	**4.574E-03**	**3.923E-04**	**1.311E-02**	**4.292E-04**	**8.608E-04**	**2.008E-04**	**1.147E-03**	**6.046E-04**	**1.615E-04**	**2.562E-04**	**7.615E-05**	**1.154E-04**	**3.692E-05**	**7.846E-05**	**2.308E-05**	**6.923E-05**	**2.077E-05**	**1.205E-03**	**1.477E-04**	**9.462E-05**