

2/1/02 ~~IT~~

WTC samples

19.6	Blk	316
	STD	317
	IPC+CB	318
	LF B+LR B	319
1102.1	166 + Lab Dup + Spk	IPC+CB
	167	861
56.8	168	985
216.9	169	1022
	248	1027
	249	1054
	250	1087 + Spk
	275	745 + Dup
	276	1106
	277	1244
	IPC+CB	IPC+CB
	278 + Lab Dup + Spk	LF B+LR B
	279	
	280	
	281	
	314	
	315	

Reviewed by,
CB 3/15/02

Standardization Rpt.

02/01/02 10:53:28 AM

page 1

Method: IECW Standard: STD1-Blank

Run Time: 02/01/02 10:51:45



Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avg	1.643	4.694	.4495	.3135	.1825	.3190	4.845
SDev	.005	.017	.0100	.0053	.0010	.0254	.006
%RSD	.2875	.3605	2.221	1.678	.5479	7.972	.1238

#1	1.644	4.682	.4420	.3180	.1840	.3500	4.840
#2	1.640	4.716	.4560	.3060	.1820	.3280	4.840
#3	1.640	4.680	.4600	.3140	.1820	.3060	4.848
#4	1.650	4.700	.4400	.3160	.1820	.2920	4.852

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avg	.3080	2.964	1.158	.7160	.0185	6.433	1.561
SDev	.0033	.003	.009	.0016	.0066	.025	.002
%RSD	1.060	.1153	.7646	.2281	35.72	.3944	.1226

#1	.3080	2.964	1.152	.7160	.0280	6.424	1.560
#2	.3120	2.968	1.164	.7140	.0180	6.402	1.564
#3	.3080	2.962	1.166	.7180	.0140	6.456	1.560
#4	.3040	2.960	1.148	.7160	.0140	6.452	1.562

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avg	.1095	.2565	2.602	.5640	.8355	.1580	.1240
SDev	.0010	.0199	.003	.0085	.0093	.0040	.0033
%RSD	.9132	7.755	.1087	1.504	1.112	2.532	2.634

#1	.1100	.2800	2.602	.5740	.8260	.1600	.1240
#2	.1080	.2640	2.600	.5560	.8360	.1520	.1240
#3	.1100	.2480	2.600	.5580	.8480	.1600	.1280
#4	.1100	.2340	2.606	.5680	.8320	.1600	.1200

Elem	Si2881	Tl1908	V_2924	Zn2138
Avg	1.158	.1515	.8245	.1705
SDev	.006	.0070	.0019	.0025
%RSD	.5160	4.620	.2322	1.476

#1	1.156	.1540	.8240	.1700
#2	1.150	.1600	.8260	.1680
#3	1.160	.1480	.8260	.1740
#4	1.164	.1440	.8220	.1700

Standardization Rpt.

02/01/02 10:56:22 AM

page 1

Method: IECW Standard: STD6

Run Time: 02/01/02 10:55:00



Elem	Ag3280
Avge	43.77
SDev	.18
%RSD	.4208

#1	43.58
#2	43.75
#3	43.71
#4	44.02

Standardization Rpt.

02/01/02 10:58:58 AM

page 1

Method: IECW Standard: STD3

Run Time: 02/01/02 10:57:15

Elem	Al3082	Be3130	Fe2599	Mo2020	Na5889	Ni2316	Sb2068
Avge	23.23	232.7	15.09	5.568	12.52	18.44	1.388
SDev	.11	1.5	.09	.046	.07	.11	.023
%RSD	.4864	.6629	.6083	.8175	.5290	.6162	1.643
#1	23.15	231.7	15.01	5.514	12.45	18.35	1.380
#2	23.38	234.7	15.20	5.596	12.61	18.59	1.422
#3	23.13	231.2	15.01	5.548	12.49	18.36	1.374
#4	23.26	233.1	15.12	5.614	12.53	18.45	1.376

Elem	Tl1908
Avge	1.027
SDev	.033
%RSD	3.198

#1	1.024
#2	1.010
#3	1.074
#4	1.000

Standardization Rpt.

02/01/02 11:01:07 AM

page 1

Method: IECW Standard: STD4

Run Time: 02/01/02 10:59:45

Elem	As1936	B_2496	Cr2677	Se1960	Si2881
Avge	4.431	32.29	50.64	.7885	5.323
SDev	.069	.15	.18	.0192	.015
%RSD	1.558	.4651	.3635	2.436	.2837
#1	4.460	32.14	50.53	.7620	5.308
#2	4.368	32.45	50.76	.7920	5.336
#3	4.514	32.19	50.44	.7920	5.312
#4	4.380	32.38	50.83	.8080	5.336

Standardization Rpt.

02/01/02 11:03:24 AM

page 1

Method: IECW Standard: STD2

Run Time: 02/01/02 11:02:01

Elem	Ba4934	Ca3179	Cd2288	Co2286	Cu3247	K_7664	Mg2790
Avge	27.92	113.8	37.80	139.5	24.57	12.22	8.504
SDev	.06	.4	.10	.6	.06	.04	.029
%RSD	.2270	.3732	.2658	.3963	.2245	.2950	.3440

#1	27.93	113.8	37.89	139.5	24.56	12.24	8.512
#2	27.87	113.4	37.68	138.9	24.51	12.17	8.462
#3	28.01	114.4	37.87	140.3	24.64	12.25	8.530
#4	27.88	113.7	37.76	139.3	24.55	12.20	8.512

Elem	Mn2576	Pb2203	Zn2138
Avge	30.75	6.543	27.16
SDev	.09	.027	.13
%RSD	.3018	.4127	.4797

#1	30.76	6.540	27.13
#2	30.66	6.510	27.06
#3	30.88	6.576	27.35
#4	30.71	6.544	27.11

Standardization Rpt.

02/01/02 11:05:41 AM

page 1

Method: IECW Standard: STD5
Run Time: 02/01/02 11:04:19

Elem V_2924
Avge 33.18
SDev .16
%RSD .4837

#1 33.09
#2 33.16
#3 33.41
#4 33.04

Analysis Report

02/01/02 11:18:30 AM

page 1

Method: IECW Sample Name: ipc

Operator: it

Run Time: 02/01/02 11:15:48

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	.5394	1.035	.0301	.9779	.9967	.9620	1.013
SDev	.0020	.013	.0537	.0040	.0014	.0024	.006
%RSD	.3701	1.280	178.5	.4097	.1385	.2521	.5788

#1	.5368	1.018	<.0000	.9831	.9957	.9590	1.008
#2	.5392	1.035	<.0000	.9762	.9957	.9611	1.007
#3	.5401	1.050	.0961	.9787	.9971	.9639	1.018
#4	.5415	1.035	.0513	.9737	.9985	.9639	1.017

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	1.009	.9998	.9732	.9712	.9949	.9893	.9879
SDev	.006	.0078	.0037	.0040	.0044	.4464	.0232
%RSD	.6064	.7762	.3826	.4116	.4398	154.3	2.353

#1	1.001	.9895	.9695	.9670	.9906	<.0000	.9655
#2	1.016	.9989	.9723	.9687	.9999	.0438	.9857
#3	1.009	1.007	.9727	.9737	.9972	.3595	1.020
#4	1.010	1.004	.9784	.9754	.9919	.8856	.9800

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.9929	.9673	.9938	.9883	1.006	.9621	.0779
SDev	.0039	.0093	.0360	.0210	.010	.0443	.0936
%RSD	.3925	.9625	3.624	2.129	1.036	4.603	120.2

#1	.9880	.9655	.9415	.9671	.9931	.8967	.0704
#2	.9919	.9655	.9983	.9850	1.004	.9785	.1308
#3	.9971	.9803	1.017	.9838	1.018	.9948	<.0000
#4	.9945	.9581	1.019	1.017	1.011	.9785	.1611

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.9659	1.096	.9920	1.004
SDev	.0121	.056	.0022	.003
%RSD	1.255	5.093	.2218	.3210

#1	.9696	1.028	.9890	1.001
#2	.9502	1.164	.9939	1.001
#3	.9647	1.096	.9920	1.006
#4	.9793	1.096	.9933	1.006

Analysis Report

02/01/02 11:21:50 AM

page 1

Method: IECW Sample Name: cb

Operator: it

Run Time: 02/01/02 11:19:05

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B12496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0401	.0020	<.0000	<.0000	<.0000
SDev	.0016	.0054	.0539	.0029	.0004	.0002	.0015
%RSD	151.8	53.93	134.3	140.9	100.1	1052.	54.47

#1	<.0000	<.0000	<.0000	.0006	<.0000	.0003	<.0000
#2	<.0000	<.0000	.0513	.0062	<.0000	<.0000	<.0000
#3	<.0000	<.0000	.0814	<.0000	<.0000	<.0000	<.0000
#4	.0011	<.0000	.0663	.0012	<.0000	<.0000	<.0000

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	<.0000	.0066	<.0000	<.0000
SDev	.0010	.0016	.0008	.0011	.0025	.3307	.0089
%RSD	255.5	338.9	406.5	27.17	38.24	18.13	123.8

#1	.0004	<.0000	.0002	<.0000	.0046	<.0000	<.0000
#2	<.0000	.0017	.0002	<.0000	.0099	<.0000	.0050
#3	.0004	<.0000	.0002	<.0000	.0046	<.0000	<.0000
#4	<.0000	<.0000	<.0000	<.0000	.0073	<.0000	<.0000

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	<.0000	.0167	<.0000	.0006	.0158	.0082	.0227
SDev	.0003	.0048	.0063	.0043	.0052	.0313	.0869
%RSD	99.83	28.68	16.15	769.8	33.20	381.8	382.6

#1	<.0000	.0185	<.0000	<.0000	.0114	.0491	.0152
#2	<.0000	.0222	<.0000	.0031	.0219	<.0000	.0151
#3	<.0000	.0148	<.0000	.0020	.0114	<.0000	.1361
#4	<.0000	.0111	<.0000	.0031	.0184	.0164	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	<.0000	.0798	<.0000	.0004
SDev	.0127	.0342	.0011	.0010
%RSD	22.36	42.84	40.53	282.5

#1	<.0000	.0969	<.0000	.0004
#2	<.0000	.1197	<.0000	.0011
#3	<.0000	.0513	<.0000	<.0000
#4	<.0000	.0513	<.0000	.0011

Analysis Report

02/01/02 11:30:24 AM

page 1

Method: IECW Sample Name: lfb

Operator: it

Run Time: 02/01/02 11:23:04

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	.0145	.2396	.2623	.2488	.2544	.0483	.0102
SDev	.0027	.0112	.0756	.0015	.0015	.0003	.0012
%RSD	18.43	4.687	28.84	.5937	.5847	.5122	11.74

#1	.0129	.2315	.1572	.2477	.2542	.0481	.0087
#2	.0115	.2315	.3378	.2477	.2564	.0486	.0098
#3	.0167	.2401	.2773	.2508	.2528	.0481	.0110
#4	.0167	.2553	.2772	.2490	.2542	.0483	.0112

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.1033	.1037	.2526	.2538	.2543	<.0000	<.0000
SDev	.0005	.0006	.0026	.0008	.0013	.5480	.0161
%RSD	.4947	.5337	1.013	.3165	.5231	46.75	56.85

#1	.1037	.1036	.2493	.2532	.2549	<.0000	<.0000
#2	.1031	.1041	.2542	.2540	.2549	<.0000	<.0000
#3	.1037	.1041	.2518	.2532	.2523	<.0000	<.0000
#4	.1026	.1029	.2550	.2549	.2549	<.0000	<.0000

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.2576	.0995	<.0000	.2546	.2404	.2429	.2034
SDev	.0004	.0055	.0386	.0074	.0175	.0162	.1078
%RSD	.1462	5.570	109.5	2.906	7.269	6.682	53.01

#1	.2580	.1041	<.0000	.2630	.2273	.2186	.0519
#2	.2573	.1041	<.0000	.2563	.2378	.2511	.2641
#3	.2580	.0930	<.0000	.2451	.2308	.2510	.2034
#4	.2573	.0967	.0045	.2540	.2658	.2510	.2943

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.1936	.2109	.0986	.2600
SDev	.0265	.0471	.0013	.0020
%RSD	13.67	22.34	1.305	.7541

#1	.1624	.1596	.0983	.2619
#2	.1816	.2052	.0970	.2612
#3	.2104	.2052	.1001	.2575
#4	.2201	.2737	.0989	.2597

Analysis Report

02/01/02 11:33:01 AM

page 1

Method: IECW Sample Name: lrb
 Run Time: 02/01/02 11:31:04
 Comment:
 Mode: CONC Corr. Factor: 1

Operator: it

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	.0049	.0162	.0009	<.0000	<.0000	.0001
SDev	.0017	.0066	.0505	.0023	.0004	.0001	.0012
%RSD	486.9	136.4	311.4	249.6	140100.	100.0	1383.

#1	.0006	.0076	<.0000	.0009	.0004	<.0000	<.0000
#2	<.0000	<.0000	<.0000	.0003	<.0000	<.0000	.0010
#3	.0015	.0130	.0399	.0041	.0004	.0000	.0013
#4	<.0000	.0000	.0752	<.0000	<.0000	<.0000	<.0000

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	.0022	.0024	<.0000	.0010	<.0000	.0043
SDev	.0011	.0018	.0009	.0019	.0017	.4957	.0145
%RSD	68.70	80.01	36.92	1541000.	171.9	70.30	333.4

#1	<.0000	.0021	.0027	.0006	.0017	<.0000	.0087
#2	<.0000	.0014	.0011	<.0000	.0003	<.0000	.0029
#3	<.0000	.0048	.0031	.0023	.0030	<.0000	.0202
#4	<.0000	.0007	.0027	<.0000	<.0000	<.0000	<.0000

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	<.0000	.0028	<.0000	.0031	.0175	.0650	.0682
SDev	.0003	.0093	.0204	.0045	.0151	.0311	.1035
%RSD	83320.	335.8	81.49	146.7	86.44	47.88	151.8

#1	.0002	.0009	<.0000	.0011	.0385	.0243	.1742
#2	.0002	.0009	<.0000	.0078	.0035	.0894	<.0000
#3	<.0000	.0157	.0025	<.0000	.0105	.0893	.1136
#4	.0002	<.0000	<.0000	.0056	.0175	.0569	.0530

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.0902	.0400	.0006	<.0000
SDev	.0118	.2107	.0010	.0006
%RSD	13.04	526.8	163.3	163.1

#1	.0950	<.0000	.0006	.0004
#2	.0806	<.0000	.0006	<.0000
#3	.1046	.0228	.0019	<.0000
#4	.0806	.3430	<.0000	<.0000

Analysis Report

02/01/02 12:02:09 PM

page 1

Method: IECW Sample Name: 166

Run Time: 02/01/02 12:00:24

Comment:

Mode: CONC Corr. Factor: 1

Operator: it



Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	.0013	.0358	.0629	.0070	.0169	.0003	9.575
SDev	.0020	.0137	.0474	.0006	.0004	.0001	.031
%RSD	156.6	38.28	75.43	8.569	2.152	19.25	.3212

#1	<.0000	.0236	<.0000	.0065	.0167	.0003	9.600
#2	.0019	.0355	.1030	.0078	.0167	.0003	9.560
#3	.0014	.0290	.0580	.0071	.0174	.0002	9.539
#4	.0033	.0550	.0927	.0065	.0167	.0002	9.601

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	.0014	.0032	.0082	.0451	.5464	2.615
SDev	.0020	.0017	.0015	.0008	.0019	.3166	.010
%RSD	168.4	119.3	48.35	9.852	4.164	57.95	.3934

#1	<.0000	<.0000	.0016	.0079	.0438	.0881	2.630
#2	<.0000	.0014	.0021	.0088	.0478	.5817	2.607
#3	<.0000	.0011	.0045	.0071	.0451	.7580	2.609
#4	.0016	.0037	.0045	.0088	.0438	.7580	2.615

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0696	<.0000	11.29	.0049	.0297	.0157	<.0000
SDev	.0006	.0037	.06	.0032	.0035	.0487	.1515
%RSD	.8969	43.46	.5575	64.03	11.76	310.0	627.8

#1	.0698	<.0000	11.30	.0072	.0315	.0564	<.0000
#2	.0691	<.0000	11.34	.0072	.0315	<.0000	<.0000
#3	.0691	<.0000	11.20	.0005	.0245	<.0000	.1729
#4	.0704	<.0000	11.33	.0049	.0314	.0563	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	1.177	.1042	.0016	.0021
SDev	.015	.0756	.0020	.0014
%RSD	1.291	72.48	125.8	68.81

#1	1.182	.0871	<.0000	.0039
#2	1.163	.2014	.0023	.0010
#3	1.167	.1100	.0023	.0024
#4	1.196	.0185	.0030	.0009

Analysis Report

02/01/02 12:04:10 PM

page 1

Method: IECW Sample Name: 166lab dup

Operator: it

Run Time: 02/01/02 12:02:26

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	.0009 ¹³	.0342 ³⁵⁸	.0554	.0067	.0167 ¹⁶⁹	.0000	9.597 ⁹⁵⁷⁵
SDev	.0006	.0075	.0405	.0013	.0000	.0000	.024
%RSD	59.92	22.00	73.05	19.33	.0145	.0000	.2487

#1	.0014	.0344	.0980	.0065	.0167	.0000	9.582
#2	.0004	.0377	.0077	.0053	.0167	.0000	9.619
#3	.0014	.0409	.0378	.0065	.0167	.0000	9.616
#4	.0004	.0236	.0781	.0084	.0167	.0000	9.571

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	.0014 ¹⁴	.0024 ³²	.0075 ⁸²	.0415 ⁴⁵¹	.4847	2.598 ²⁶¹⁵
SDev	.0018	.0013	.0019	.0011	.0007	.3790	.002
%RSD	446.5	93.71	80.76	14.40	1.594	78.19	.0907

#1	.0000	.0019	.0029	.0071	.0412	.8637	2.598
#2	<.0000	.0025	.0041	.0088	.0412	.7580	2.598
#3	<.0000	<.0000	.0029	.0079	.0425	.1586	2.601
#4	.0016	.0014	<.0000	.0063	.0412	.1586	2.595

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0698 ⁶⁴⁶	<.0000	11.34 ^{11.29}	.0061 ⁴⁹	.0192	.0157	.0213
SDev	.0009	.0077	.03	.0046	.0136	.0094	.0783
%RSD	1.322	159.9	.2415	75.32	70.81	59.60	366.7

#1	.0691	<.0000	11.31	.0027	.0350	.0239	.1122
#2	.0711	.0044	11.38	.0038	.0139	.0238	.0516
#3	.0698	<.0000	11.34	.0128	.0034	.0076	<.0000
#4	.0691	<.0000	11.33	.0049	.0245	.0076	<.0000

Elem	Si2881	Ti1908	V_2924	Zn2138
Avge	1.188	.1271	.0008 ¹⁶	.0030 ²¹
SDev	.014	.0940	.0012	.0013
%RSD	1.163	73.96	147.5	42.31

#1	1.192	.2472	.0017	.0032
#2	1.177	.1100	.0005	.0047
#3	1.206	.1328	.0017	.0024
#4	1.177	.0186	<.0000	.0017

Analysis Report

02/01/02 12:29:40 PM

page 1

Method: IECW Sample Name: 166spk
 Run Time: 02/01/02 12:25:41
 Comment:
 Mode: CONC Corr. Factor: 1

Operator: it

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	.0141 ¹³	.2803 ³⁷⁸	.2586	.2512	.2477 ¹⁶⁹	.0442	9.354
SDev	.0012	.0092	.0260	.0009	.0017	.0004	.070
%RSD	8.428 ⁵¹²	3.293	10.04	.3703	.6695	.8462	.7499
#1	.0156	.2701	.2663	.2504	.2462 ⁹²⁷	.0439	9.298
#2	.0142	.2765	.2211	.2504	.2462	.0439	9.289
#3	.0128	.2917	.2660	.2523	.2491	.0445	9.416
#4	.0137	.2830	.2811	.2516	.2491	.0446	9.414

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.0953	.0937	.2277	.2378	.2722 ⁴⁵¹	.2005	2.528
SDev	.0019	.0020	.0017	.0019	.0036	.3373	.021
%RSD	2.014	2.140	.7450	.8139	1.337 ⁹¹²	168.2	.8202
#1	.0941	.0930	.2254	.2361	.2706	.6276	2.520
#2	.0957	.0931	.2294	.2361	.2679	.3138	2.505
#3	.0978	.0921	.2282	.2395	.2745	<.0000	2.531
#4	.0935	.0966	.2278	.2395	.2758	<.0000	2.554

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.3005 ⁶⁹⁶	.0881	11.16	.2247 ⁴⁹	.2352	.2346	.2715
SDev	.0033	.0019	.09	.0085	.0158	.0204	.1915
%RSD	1.084	2.095	.8099	3.772	6.704	8.719	70.55
#1	.2974	.0890	11.04	.2191	.2220	.2387	.4922
#2	.2981	.0890	11.16	.2191	.2361	.2061	.0965
#3	.3040	.0890	11.26	.2370	.2571	.2549	.3704
#4	.3026	.0853	11.20	.2236	.2255	.2386	.1269

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	1.336	.2754	.0918	.2349
SDev	.014	.0605	.0013	.0038
%RSD	1.079	21.96	1.387	1.616
#1	1.328	.1954	.0920	.2354
#2	1.357	.2640	.0901	.2295
#3	1.328	.3097	.0932	.2384
#4	1.328	.3326	.0920	.2362

Analysis Report

02/01/02 12:32:54 PM

page 1

Method: IECW Sample Name: 167

Operator: it

Run Time: 02/01/02 12:30:12

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	.0120	.1188	.0142	.0274	<.0000	22.26
SDev	.0017	.0067	.0369	.0019	.0004	.0001	.05
%RSD	159.7	55.80	31.09	13.63	1.509	46.19	.2418

#1	<.0000	.0110	.0712	.0168	.0271	<.0000	22.24
#2	<.0000	.0066	.1214	.0131	.0278	<.0000	22.24
#3	.0012	.0218	.1212	.0143	.0278	<.0000	22.34
#4	<.0000	.0088	.1614	.0125	.0271	<.0000	22.23

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	.0023	.0131	.1265	1.055	7.281
SDev	.0023	.0009	.0018	.0011	.0029	.453	.028
%RSD	124.8	134.1	80.05	8.284	2.320	42.96	.3850

#1	<.0000	<.0000	.0008	.0135	.1248	.9066	7.306
#2	<.0000	<.0000	.0013	.0126	.1275	.6625	7.246
#3	<.0000	.0003	.0049	.0143	.1301	1.709	7.301
#4	.0010	<.0000	.0021	.0118	.1235	.9414	7.272

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.1791	.0060	24.34	.0018	<.0000	.0395	.0649
SDev	.0003	.0064	.03	.0041	.0175	.0081	.0658
%RSD	.1818	107.2	.1265	224.6	654.2	20.58	101.4

#1	.1796	.0115	24.32	<.0000	.0157	.0435	<.0000
#2	.1789	.0115	24.33	<.0000	<.0000	.0273	.1258
#3	.1789	.0004	24.33	.0063	<.0000	.0435	.0953
#4	.1789	.0004	24.39	.0041	.0017	.0435	.0649

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	1.720	.1654	.0006	.0013
SDev	.028	.1552	.0015	.0019
%RSD	1.650	93.83	255.9	153.1

#1	1.698	<.0000	<.0000	.0011
#2	1.737	.3256	.0003	<.0000
#3	1.751	.2568	.0027	.0040
#4	1.694	.0968	<.0000	.0003

Analysis Report

02/01/02 12:35:23 PM

page 1

Method: IECW Sample Name: 168

Operator: it

Run Time: 02/01/02 12:33:39

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	.0057	.0453	.0046	.0134	<.0000	6.377
SDev	.0021	.0058	.0286	.0029	.0004	.0001	.035
%RSD	135.3	102.2	63.16	62.20	2.693	25.66	.5440

#1	.0000	.0132	.0802	.0013	.0136	<.0000	6.325
#2	.0005	.0057	.0102	.0032	.0136	<.0000	6.392
#3	<.0000	.0046	.0453	.0063	.0129	<.0000	6.394
#4	<.0000	<.0000	.0454	.0076	.0136	<.0000	6.396

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	.0049	.0375	<.0000	1.359
SDev	.0018	.0024	.0004	.0008	.0017	.3045	.010
%RSD	46.54	369.5	29.23	16.48	4.455	44.21	.7560

#1	<.0000	.0007	<.0000	.0055	.0392	<.0000	1.351
#2	<.0000	<.0000	<.0000	.0055	.0378	<.0000	1.374
#3	<.0000	<.0000	<.0000	.0047	.0352	<.0000	1.354
#4	<.0000	.0019	<.0000	.0038	.0378	<.0000	1.359

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0333	<.0000	7.217	<.0000	.0123	.0364	<.0000
SDev	.0003	.0021	.050	.0036	.0114	.0282	.1291
%RSD	.9790	209.0	.6884	398.7	93.34	77.50	239.2

#1	.0332	.0008	7.143	.0022	.0263	.0445	.0069
#2	.0332	.0008	7.237	<.0000	.0123	.0445	.0982
#3	.0332	<.0000	7.251	.0022	.0123	<.0000	<.0000
#4	.0338	<.0000	7.237	<.0000	<.0000	.0608	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.9529	.0091	<.0000	<.0000
SDev	.0163	.0572	.0017	.0011
%RSD	1.711	627.2	319.8	392.9

#1	.9517	.0377	.0012	<.0000
#2	.9757	<.0000	.0005	<.0000
#3	.9373	.0377	<.0000	.0014
#4	.9469	.0377	<.0000	<.0000

Analysis Report

02/01/02 12:38:10 PM

page 1

Method: 1ECW Sample Name: 169

Operator: it

Run Time: 02/01/02 12:36:27

Comment:

Mode: CDNC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	.0049	.0240	.0038	.0132	<.0000	6.338
SDev	.0007	.0119	.0471	.0020	.0004	.0000	.044
%RSD	24.16	245.3	196.3	51.83	3.170	20.00	.7014

#1	<.0000	.0078	<.0000	.0026	.0129	<.0000	6.401
#2	<.0000	.0132	.0452	.0019	.0129	<.0000	6.334
#3	<.0000	.0111	.0352	.0045	.0136	<.0000	6.298
#4	<.0000	<.0000	.0605	.0063	.0136	<.0000	6.318

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	.0059	.0388	<.0000	1.344
SDev	.0013	.0011	.0019	.0008	.0017	.3456	.007
%RSD	64.53	186.4	96.29	14.15	4.295	46.65	.5369

#1	<.0000	<.0000	<.0000	.0063	.0391	<.0000	1.345
#2	<.0000	.0004	<.0000	.0063	.0392	<.0000	1.354
#3	<.0000	<.0000	<.0000	.0063	.0365	<.0000	1.342
#4	<.0000	<.0000	<.0000	.0047	.0405	<.0000	1.336

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0338	.0017	7.483	.0053	<.0000	.0079	.0678
SDev	.0005	.0046	.041	.0040	.0109	.0204	.0745
%RSD	1.575	265.1	.5529	76.45	95.28	258.9	109.9

#1	.0345	<.0000	7.526	.0078	<.0000	.0282	.0678
#2	.0338	.0008	7.500	.0089	<.0000	.0119	.0678
#3	.0332	.0082	7.479	<.0000	<.0000	.0119	.1591
#4	.0338	.0008	7.428	.0044	<.0000	<.0000	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.9397	.0149	<.0000	.0006
SDev	.0100	.0647	.0009	.0006
%RSD	1.061	435.4	63.55	94.02

#1	.9373	<.0000	<.0000	<.0000
#2	.9517	.0606	<.0000	.0006
#3	.9421	.0149	<.0000	.0014
#4	.9278	.0606	<.0000	.0006

Analysis Report

02/01/02 12:40:54 PM

page 1

Method: IECW Sample Name: 248

Operator: it

Run Time: 02/01/02 12:39:10

Comment:

Mode: CONC Corr. Factor: 1



Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	.0043	.1232	.0139	.0289	<.0000	25.29
SDev	.0016	.0063	.0562	.0026	.0008	.0000	.18
%RSD	158.0	146.3	45.59	18.58	2.829	25.00	.6945

#1	.0011	.0117	.0655	.0104	.0282	<.0000	25.16
#2	<.0000	.0030	.1909	.0167	.0282	<.0000	25.17
#3	<.0000	<.0000	.0907	.0142	.0296	<.0000	25.53
#4	<.0000	.0062	.1457	.0142	.0296	<.0000	25.31

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	.0008	<.0000	.0619	1.098	8.452
SDev	.0026	.0013	.0018	.0011	.0032	.200	.049
%RSD	192.2	101.9	215.0	457.1	5.232	18.24	.5762

#1	.0020	<.0000	.0015	.0008	.0606	1.116	8.412
#2	<.0000	<.0000	.0031	<.0000	.0646	1.325	8.427
#3	<.0000	<.0000	<.0000	<.0000	.0645	1.116	8.522
#4	<.0000	<.0000	<.0000	<.0000	.0579	.8368	8.450

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.1604	<.0000	27.63	.0071	.0017	.0231	.0035
SDev	.0011	.0021	.19	.0060	.0103	.0244	.0963
%RSD	.6932	144.3	.6925	84.06	594.7	105.8	2716.

#1	.1606	.0004	27.55	.0004	.0122	.0434	<.0000
#2	.1599	.0004	27.46	.0127	.0052	<.0000	.0644
#3	.1619	<.0000	27.90	.0116	.0018	.0434	<.0000
#4	.1593	<.0000	27.62	.0038	<.0000	.0108	.0949

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	1.568	.1922	<.0000	<.0000
SDev	.025	.1127	.0008	.0009
%RSD	1.621	58.64	142.0	359.6

#1	1.548	.3238	<.0000	.0010
#2	1.576	.2094	.0002	<.0000
#3	1.600	.0491	<.0000	<.0000
#4	1.548	.1865	<.0000	<.0000

Analysis Report

02/01/02 12:43:39 PM

page 1

Method: IECW Sample Name: 249

Operator: it

Run Time: 02/01/02 12:41:55

Comment:

Mode: CDNC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	.0149	.0339	.0040	.0134	<.0000	6.217
SDev	.0014	.0107	.0401	.0014	.0004	.0001	.010
%RSD	99.47	71.83	118.3	34.80	2.682	38.30	.1665

#1	<.0000	.0208	.0902	.0026	.0136	<.0000	6.229
#2	<.0000	.0024	<.0000	.0032	.0129	<.0000	6.215
#3	<.0000	.0100	.0252	.0045	.0136	<.0000	6.204
#4	.0000	.0262	.0250	.0057	.0136	<.0000	6.219

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	.0009	<.0000	.0335	<.0000	1.370
SDev	.0021	.0013	.0014	.0019	.0025	.1595	.018
%RSD	162.5	109.5	153.5	324.9	7.474	35.87	1.315

#1	.0018	.0006	<.0000	.0013	.0352	<.0000	1.359
#2	<.0000	<.0000	.0004	<.0000	.0339	<.0000	1.374
#3	<.0000	<.0000	.0028	<.0000	.0299	<.0000	1.354
#4	<.0000	<.0000	.0008	.0005	.0352	<.0000	1.394

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0358	.0008	4.430	.0047	<.0000	.0119	.0145
SDev	.0008	.0030	.013	.0045	.0141	.0265	.0719
%RSD	2.107	367.1	.3012	96.13	1541.	222.5	496.4

#1	.0364	<.0000	4.450	.0111	<.0000	.0444	.0677
#2	.0364	.0008	4.425	.0011	<.0000	<.0000	<.0000
#3	.0351	.0045	4.421	.0022	.0193	.0119	.0069
#4	.0351	.0008	4.423	.0044	<.0000	.0119	.0677

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.6796	<.0000	<.0000	<.0000
SDev	.0168	.0657	.0012	.0018
%RSD	2.469	260.7	313.9	1879.

#1	.6976	<.0000	.0006	.0021
#2	.6592	<.0000	<.0000	<.0000
#3	.6736	.0606	.0006	.0006
#4	.6879	<.0000	<.0000	<.0000

Analysis Report

02/01/02 12:46:15 PM

page 1

Method: IECW Sample Name: 250

Run Time: 02/01/02 12:44:32

Comment:

Mode: CONC Corr. Factor: 1

Operator: it



Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0517	.0034	.0129	<.0000	6.225
SDev	.0016	.0114	.0395	.0022	.0000	.0001	.007
%RSD	37.94	156.0	76.34	65.16	.0046	17.76	.1166

#1	<.0000	<.0000	.1055	.0057	.0129	<.0000	6.220
#2	<.0000	<.0000	.0305	.0045	.0129	<.0000	6.232
#3	<.0000	<.0000	.0155	.0026	.0129	<.0000	6.217
#4	<.0000	.0089	.0553	.0007	.0129	<.0000	6.229

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	<.0000	.0352	<.0000	1.362
SDev	.0015	.0021	.0012	.0004	.0029	.3990	.010
%RSD	99.87	122.0	85.46	18.65	8.134	38.46	.7546

#1	<.0000	.0007	<.0000	<.0000	.0392	<.0000	1.377
#2	.0007	<.0000	<.0000	<.0000	.0325	<.0000	1.356
#3	<.0000	<.0000	<.0000	<.0000	.0339	<.0000	1.362
#4	<.0000	<.0000	<.0000	<.0000	.0352	<.0000	1.354

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0397	.0008	4.414	<.0000	<.0000	.0201	<.0000
SDev	.0009	.0052	.027	.0033	.0072	.0163	.1010
%RSD	2.326	625.4	.6129	143.4	63.27	80.92	101.4

#1	.0390	.0082	4.446	<.0000	<.0000	.0120	<.0000
#2	.0390	.0008	4.395	.0022	<.0000	.0446	<.0000
#3	.0410	<.0000	4.389	<.0000	<.0000	.0120	<.0000
#4	.0397	<.0000	4.427	<.0000	<.0000	.0119	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.6748	.0549	<.0000	.0003
SDev	.0149	.0959	.0008	.0018
%RSD	2.203	174.8	37.44	640.5

#1	.6544	.0148	<.0000	.0021
#2	.6832	.0149	<.0000	.0014
#3	.6736	<.0000	<.0000	<.0000
#4	.6880	.1979	<.0000	<.0000

Analysis Report

02/01/02 12:48:30 PM

page 1

Method: IECW Sample Name: 275

Run Time: 02/01/02 12:46:46

Comment:

Mode: CONC Corr. Factor: 1

Operator: it

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0692	.0041	.0131	<.0000	6.208
SDev	.0006	.0119	.0797	.0016	.0004	.0001	.023
%RSD	23.64	232.2	115.2	39.95	2.772	17.76	.3705

#1	<.0000	.0089	.1755	.0057	.0129	<.0000	6.202
#2	<.0000	<.0000	.0054	.0051	.0136	<.0000	6.179
#3	<.0000	.0003	.0854	.0038	.0129	<.0000	6.232
#4	<.0000	<.0000	.0105	.0020	.0129	<.0000	6.220

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	<.0000	.0382	<.0000	1.352
SDev	.0019	.0003	.0014	.0011	.0013	.3938	.013
%RSD	125.0	28.77	118.0	46.91	3.329	42.23	.9472

#1	<.0000	<.0000	.0004	<.0000	.0378	<.0000	1.371
#2	.0002	<.0000	<.0000	<.0000	.0392	<.0000	1.348
#3	<.0000	<.0000	<.0000	<.0000	.0392	<.0000	1.342
#4	<.0000	<.0000	<.0000	<.0000	.0365	<.0000	1.348

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0353	<.0000	7.857	.0033	<.0000	.0242	<.0000
SDev	.0006	.0019	.043	.0063	.0088	.0278	.0914
%RSD	1.773	95.56	.5515	189.9	142.7	114.9	1103.

#1	.0345	<.0000	7.801	.0011	<.0000	.0282	<.0000
#2	.0358	.0008	7.871	.0123	<.0000	.0608	<.0000
#3	.0358	<.0000	7.852	<.0000	<.0000	<.0000	.0678
#4	.0351	<.0000	7.905	.0022	<.0000	.0120	.0679

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.8942	<.0000	<.0000	<.0000
SDev	.0087	.0733	.0003	.0004
%RSD	.9771	200.2	21.22	36.31

#1	.9037	<.0000	<.0000	<.0000
#2	.8990	<.0000	<.0000	<.0000
#3	.8894	.0149	<.0000	<.0000
#4	.8846	<.0000	<.0000	<.0000

Analysis Report

02/01/02 12:50:53 PM

page 1

Method: IECW Sample Name: 276

Run Time: 02/01/02 12:49:09

Comment:

Mode: CONC Corr. Factor: 1

Operator: it

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	.0000	.0403	.0037	.0129	<.0000	6.225
SDev	.0009	.0061	.0526	.0024	.0000	.0000	.025
%RSD	35.07	75440.	130.4	64.26	.0233	16.67	.3952

#1	<.0000	<.0000	.0504	.0063	.0129	<.0000	6.252
#2	<.0000	<.0000	.1106	.0032	.0129	<.0000	6.207
#3	<.0000	.0079	<.0000	.0007	.0129	<.0000	6.202
#4	<.0000	.0014	.0053	.0045	.0129	<.0000	6.240

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	<.0000	.0325	<.0000	1.358
SDev	.0008	.0005	.0016	.0012	.0022	.3251	.022
%RSD	27.92	23.62	118.5	41.19	6.674	24.70	1.643

#1	<.0000	<.0000	<.0000	<.0000	.0325	<.0000	1.371
#2	<.0000	<.0000	.0004	<.0000	.0325	<.0000	1.336
#3	<.0000	<.0000	<.0000	<.0000	.0352	<.0000	1.342
#4	<.0000	<.0000	<.0000	<.0000	.0299	<.0000	1.382

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0371	<.0000	7.501	.0027	<.0000	.0201	.0069
SDev	.0000	.0018	.046	.0019	.0034	.0312	.0497
%RSD	.0034	95.20	.6162	70.59	29.36	155.0	717.7

#1	.0371	<.0000	7.530	.0044	<.0000	.0445	.0678
#2	.0371	<.0000	7.526	.0011	<.0000	.0445	.0070
#3	.0371	<.0000	7.433	.0011	<.0000	.0120	.0069
#4	.0371	.0008	7.516	.0044	<.0000	<.0000	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.9074	.0206	<.0000	<.0000
SDev	.0208	.1142	.0008	.0014
%RSD	2.295	554.8	37.43	304.5

#1	.9037	.1292	<.0000	<.0000
#2	.8894	<.0000	<.0000	<.0000
#3	.8990	.1064	<.0000	<.0000
#4	.9373	<.0000	<.0000	.0014

Analysis Report

02/01/02 12:55:22 PM

page 1

Method: IECW Sample Name: 277

Run Time: 02/01/02 12:53:39

Comment:

Mode: CDNC Corr. Factor: 1

Operator: it



Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0621	.0043	.0172	<.0000	11.98
SDev	.0038	.0186	.0718	.0023	.0007	.0001	.03
%RSD	35.96	35.43	115.5	53.68	4.000	19.15	.2769

#1	<.0000	<.0000	.0192	.0027	.0181	<.0000	12.03
#2	<.0000	<.0000	<.0000	.0077	.0173	<.0000	11.97
#3	<.0000	<.0000	.1350	.0034	.0166	<.0000	11.96
#4	<.0000	<.0000	.1098	.0034	.0166	<.0000	11.96

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	.0039	.0520	<.0000	3.460
SDev	.0028	.0018	.0024	.0022	.0049	.6419	.029
%RSD	82.20	28.19	54.70	56.66	9.439	27.38	.8333

#1	.0001	<.0000	<.0000	.0070	.0500	<.0000	3.478
#2	<.0000	<.0000	<.0000	.0037	.0553	<.0000	3.484
#3	<.0000	<.0000	<.0000	.0020	.0566	<.0000	3.421
#4	<.0000	<.0000	<.0000	.0028	.0460	<.0000	3.455

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0730	<.0000	13.68	<.0000	<.0000	<.0000	.0594
SDev	.0008	.0019	.03	.0037	.0163	.0406	.0576
%RSD	1.126	90.45	.2460	14740.	38.81	475.8	97.06

#1	.0728	<.0000	13.72	<.0000	<.0000	<.0000	.0669
#2	.0728	<.0000	13.64	.0050	<.0000	.0443	.0974
#3	.0741	<.0000	13.67	<.0000	<.0000	<.0000	.0975
#4	.0722	.0007	13.69	<.0000	<.0000	<.0000	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	1.075	.1602	<.0000	.0004
SDev	.074	.2214	.0006	.0013
%RSD	6.875	138.2	8.299	352.4

#1	1.168	.3089	<.0000	.0020
#2	1.087	<.0000	<.0000	.0005
#3	1.053	.3319	<.0000	<.0000
#4	.9910	.1488	<.0000	<.0000

Analysis Report

02/01/02 12:57:56 PM

page 1

Method: IECW Sample Name: ipc

Operator: it

Run Time: 02/01/02 12:56:12

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	.4809	.9309	<.0000	.9535	.9892	.9431	.9897
SDev	.0021	.0029	.0764	.0092	.0024	.0030	.0047
%RSD	.4445	.3073	365.8	.9703	.2454	.3154	.4790

#1	.4780	.9303	<.0000	.9401	.9856	.9387	.9915
#2	.4827	.9325	.0929	.9551	.9899	.9448	.9952
#3	.4822	.9271	<.0000	.9582	.9906	.9444	.9842
#4	.4808	.9336	<.0000	.9607	.9906	.9447	.9879

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.9844	.9738	.9507	.9561	.9764	<.0000	.9078
SDev	.0059	.0052	.0025	.0036	.0058	.3004	.0146
%RSD	.5993	.5306	.2603	.3791	.5919	10.23	1.612

#1	.9768	.9692	.9520	.9511	.9691	<.0000	.8977
#2	.9891	.9809	.9532	.9578	.9744	<.0000	.9295
#3	.9891	.9709	.9476	.9561	.9811	<.0000	.9006
#4	.9827	.9741	.9500	.9595	.9811	<.0000	.9035

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.9780	.9216	.8916	.9613	.9429	.8874	<.0000
SDev	.0039	.0215	.0134	.0067	.0103	.0460	.0658
%RSD	.3948	2.332	1.498	.7019	1.095	5.184	237.8

#1	.9738	.8995	.8723	.9641	.9324	.8549	.0637
#2	.9816	.9179	.9028	.9674	.9570	.8549	<.0000
#3	.9757	.9179	.8967	.9518	.9429	.8874	<.0000
#4	.9809	.9511	.8947	.9618	.9394	.9525	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.6888	.9512	.9695	.9829
SDev	.0000	.1225	.0050	.0056
%RSD	.0039	12.87	.5164	.5687

#1	.6888	.9513	.9638	.9794
#2	.6888	1.111	.9743	.9809
#3	.6888	.8140	.9731	.9802
#4	.6888	.9284	.9669	.9913

Analysis Report

02/01/02 01:00:41 PM

page 1

Method: IECW Sample Name: cb

Operator: it

Run Time: 02/01/02 12:58:57

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0110	.0005	<.0000	<.0000	<.0000
SDev	.0020	.0049	.0706	.0020	.0004	.0002	.0016
%RSD	17.86	6.489	640.6	408.3	21.04	766.0	6.845

#1	<.0000	<.0000	.0473	<.0000	<.0000	.0002	<.0000
#2	<.0000	<.0000	<.0000	<.0000	<.0000	.0000	<.0000
#3	<.0000	<.0000	<.0000	.0024	<.0000	<.0000	<.0000
#4	<.0000	<.0000	.0925	.0017	<.0000	<.0000	<.0000

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	<.0000	.0007	<.0000	<.0000
SDev	.0012	.0012	.0025	.0011	.0023	.2766	.0109
%RSD	26.89	18.82	35.65	14.76	330.1	7.796	16.97

#1	<.0000	<.0000	<.0000	<.0000	.0017	<.0000	<.0000
#2	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000
#3	<.0000	<.0000	<.0000	<.0000	.0030	<.0000	<.0000
#4	<.0000	<.0000	<.0000	<.0000	.0004	<.0000	<.0000

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	<.0000	.0249	<.0000	<.0000	<.0000	<.0000	<.0000
SDev	.0006	.0088	.0097	.0077	.0284	.0205	.1084
%RSD	76.98	35.19	8.900	196.5	57.03	127.6	480.3

#1	<.0000	.0341	<.0000	<.0000	<.0000	.0124	<.0000
#2	.0000	.0304	<.0000	.0048	<.0000	<.0000	<.0000
#3	<.0000	.0157	<.0000	<.0000	<.0000	<.0000	.0688
#4	<.0000	.0194	<.0000	<.0000	<.0000	<.0000	.0688

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	<.0000	<.0000	<.0000	<.0000
SDev	.0060	.1097	.0020	.0000
%RSD	2.034	646.0	26.14	.0257

#1	<.0000	.0402	<.0000	<.0000
#2	<.0000	.1088	<.0000	<.0000
#3	<.0000	<.0000	<.0000	<.0000
#4	<.0000	<.0000	<.0000	<.0000

Analysis Report

02/01/02 01:03:24 PM

page 1

Method: IECW Sample Name: 278

Operator: it

Run Time: 02/01/02 13:01:40

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0346	.0035	.0129	<.0000	7.720
SDev	.0017	.0084	.0584	.0024	.0004	.0000	.026
%RSD	13.43	11.86	168.7	66.65	2.780	10.00	.3345
#1	<.0000	<.0000	.0459	.0066	.0127	<.0000	7.709
#2	<.0000	<.0000	.0060	.0012	.0127	<.0000	7.689
#3	<.0000	<.0000	.1109	.0056	.0135	<.0000	7.737
#4	<.0000	<.0000	<.0000	.0018	.0127	<.0000	7.746
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	<.0000	.0578	<.0000	1.853
SDev	.0007	.0017	.0022	.0008	.0022	.1489	.024
%RSD	40.63	20.09	27.18	55.36	3.903	4.982	1.291
#1	<.0000	<.0000	<.0000	<.0000	.0574	<.0000	1.859
#2	<.0000	<.0000	<.0000	<.0000	.0548	<.0000	1.818
#3	<.0000	<.0000	<.0000	<.0000	.0588	<.0000	1.862
#4	<.0000	<.0000	<.0000	<.0000	.0601	<.0000	1.873
Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0548	<.0000	9.151	<.0000	<.0000	<.0000	<.0000
SDev	.0010	.0082	.023	.0047	.0076	.0188	.0457
%RSD	1.786	424.0	.2524	74.12	16.03	51.23	59.47
#1	.0540	.0008	9.131	<.0000	<.0000	<.0000	<.0000
#2	.0553	.0045	9.133	<.0000	<.0000	<.0000	<.0000
#3	.0540	<.0000	9.164	<.0000	<.0000	<.0000	<.0000
#4	.0560	.0008	9.178	<.0000	<.0000	<.0000	<.0000
Elem	Si2881	Tl1908	V_2924	Zn2138			
Avge	.7902	<.0000	<.0000	<.0000			
SDev	.0138	.0711	.0011	.0007			
%RSD	1.748	165.0	12.69	67.90			
#1	.7878	<.0000	<.0000	<.0000			
#2	.7734	<.0000	<.0000	<.0000			
#3	.8069	<.0000	<.0000	<.0000			
#4	.7925	.0598	<.0000	<.0000			

Analysis Report

02/01/02 01:05:36 PM

page 1

Method: IECW Sample Name: 278lab dup

Operator: it

Run Time: 02/01/02 13:03:52

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0072	.0034	.0129 ¹²⁹	<.0000	7.727 ⁷⁷²⁰
SDev	.0014	.0157	.0186	.0018	.0004	.0000	.070
%RSD	9.647	20.57	259.1	53.47	2.826	.0000	.9086

#1	<.0000	<.0000	.0310	.0037	.0127	<.0000	7.750
#2	<.0000	<.0000	.0060	.0058	.0135	<.0000	7.659
#3	<.0000	<.0000	.0061	.0031	.0127	<.0000	7.684
#4	<.0000	<.0000	<.0000	.0012	.0127	<.0000	7.816

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	<.0000	.0561 ⁵⁷⁸	<.0000	1.828 ¹⁸⁵³
SDev	.0018	.0008	.0020	.0012	.0000	.2063	.028
%RSD	41.72	9.062	26.44	31.55	.0254	5.946	1.550

#1	<.0000	<.0000	<.0000	<.0000	.0561	<.0000	1.810
#2	<.0000	<.0000	<.0000	<.0000	.0561	<.0000	1.813
#3	<.0000	<.0000	<.0000	<.0000	.0561	<.0000	1.821
#4	<.0000	<.0000	<.0000	<.0000	.0561	<.0000	1.870

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0547 ⁵⁴⁹	<.0000	9.112 ⁹¹⁵¹	<.0000	<.0000	<.0000	<.0000
SDev	.0009	.0018	.053	.0066	.0158	.0351	.0801
%RSD	1.687	95.28	.5857	100.1	26.20	845.1	65.42

#1	.0553	<.0000	9.143	<.0000	<.0000	<.0000	<.0000
#2	.0547	<.0000	9.041	.0021	<.0000	.0447	<.0000
#3	.0534	<.0000	9.100	<.0000	<.0000	<.0000	<.0000
#4	.0553	.0008	9.162	<.0000	<.0000	<.0000	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.7758	.0485	<.0000	<.0000
SDev	.0114	.0438	.0015	.0007
%RSD	1.467	90.46	15.21	68.10

#1	.7830	.1057	<.0000	<.0000
#2	.7639	.0599	<.0000	<.0000
#3	.7686	.0142	<.0000	<.0000
#4	.7877	.0141	<.0000	<.0000

Analysis Report

02/01/02 01:27:30 PM

page 1

Method: IECW Sample Name: 278spk

Operator: it

Run Time: 02/01/02 13:25:46

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B12496	Ba4934	Be3130	Ca3179
Avge	.0049	.2232	.2685	.3134	.2951	.0528	7.540
SDev	.0013	.0099	.0531	.0032	.0014	.0003	.033
%RSD	25.67	4.430	19.77	1.036	.4669	.4801	.4368

#1	.0047	.2130	.2073	.3105	.2940	.0525	7.515
#2	.0038	.2173	.2423	.3162	.2969	.0530	7.576
#3	.0066	.2346	.3222	.3162	.2955	.0529	7.559
#4	.0043	.2281	.3023	.3105	.2940	.0526	7.509

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K7664	Mg2790
Avge	.1121	.1042	.2670	.2781	.3409	<.0000	1.790
SDev	.0008	.0010	.0007	.0014	.0035	.4595	.014
%RSD	.7141	.9360	.2750	.4923	1.023	12.86	.7608

#1	.1128	.1051	.2662	.2764	.3359	<.0000	1.786
#2	.1128	.1029	.2678	.2781	.3438	<.0000	1.786
#3	.1117	.1047	.2674	.2798	.3412	<.0000	1.810
#4	.1112	.1038	.2666	.2781	.3425	<.0000	1.778

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.3352	.0992	9.036	.2767	.2125	.2267	.1806
SDev	.0010	.0076	.037	.0040	.0034	.0521	.1006
%RSD	.2919	7.660	.4065	1.454	1.582	22.97	55.68

#1	.3340	.1001	9.025	.2797	.2152	.1901	.0665
#2	.3360	.1001	8.992	.2708	.2116	.2064	.1882
#3	.3360	.0891	9.080	.2775	.2151	.2063	.1577
#4	.3347	.1075	9.045	.2786	.2081	.3039	.3100

Elem	Si2881	Ti1908	V2924	Zn2138
Avge	1.127	.2422	.1027	.2842
SDev	.032	.0620	.0014	.0029
%RSD	2.829	25.58	1.336	1.029

#1	1.095	.2194	.1044	.2807
#2	1.167	.1965	.1013	.2866
#3	1.138	.2193	.1031	.2866
#4	1.109	.3337	.1019	.2829

Analysis Report

02/01/02 01:30:45 PM

page 1

Method: IECW Sample Name: 279

Run Time: 02/01/02 13:29:01

Comment:

Mode: CONC Corr. Factor: 1

Operator: it

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0382	.0019	.0142	<.0000	9.222
SDev	.0006	.0107	.0457	.0009	.0004	.0000	.070
%RSD	3.777	13.05	119.8	50.34	2.528	9.091	.7568

#1	<.0000	<.0000	.0657	.0011	.0147	<.0000	9.239
#2	<.0000	<.0000	<.0000	.0023	.0140	<.0000	9.296
#3	<.0000	<.0000	.0509	.0030	.0140	<.0000	9.227
#4	<.0000	<.0000	.0657	.0011	.0140	<.0000	9.128

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	<.0000	.0588	<.0000	2.392
SDev	.0012	.0015	.0013	.0012	.0027	.2156	.027
%RSD	29.68	16.30	15.55	269.6	4.642	5.275	1.117

#1	<.0000	<.0000	<.0000	<.0000	.0611	<.0000	2.410
#2	<.0000	<.0000	<.0000	.0012	.0558	<.0000	2.401
#3	<.0000	<.0000	<.0000	<.0000	.0611	<.0000	2.404
#4	<.0000	<.0000	<.0000	<.0000	.0572	<.0000	2.352

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0608	<.0000	11.00	<.0000	<.0000	<.0000	<.0000
SDev	.0004	.0052	.09	.0009	.0163	.0163	.0628
%RSD	.6174	181.1	.7957	35.77	31.13	131.6	51.15

#1	.0612	.0008	11.01	<.0000	<.0000	<.0000	<.0000
#2	.0612	<.0000	11.04	<.0000	<.0000	<.0000	<.0000
#3	.0605	.0008	11.07	<.0000	<.0000	<.0000	<.0000
#4	.0605	<.0000	10.87	<.0000	<.0000	<.0000	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.8335	<.0000	<.0000	<.0000
SDev	.0233	.0925	.0013	.0007
%RSD	2.792	210.4	13.35	66.16

#1	.8251	.0132	<.0000	<.0000
#2	.8683	<.0000	<.0000	<.0000
#3	.8203	.0361	<.0000	<.0000
#4	.8204	<.0000	<.0000	<.0000

Analysis Report

02/01/02 01:33:05 PM

page 1

Method: IECW Sample Name: 280

Operator: it

Run Time: 02/01/02 13:31:22

Comment:

Mode: CONC Corr. Factor: 1



Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	<.0000	<.0000	.0115	<.0000	6.134
SDev	.0013	.0075	.0502	.0009	.0000	.0000	.022
%RSD	8.291	9.117	111.7	57.87	.0234	.0000	.3537

#1	<.0000	<.0000	<.0000	<.0000	.0115	<.0000	6.132
#2	<.0000	<.0000	<.0000	<.0000	.0115	<.0000	6.157
#3	<.0000	<.0000	.0064	<.0000	.0115	<.0000	6.105
#4	<.0000	<.0000	<.0000	<.0000	.0115	<.0000	6.141

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	<.0000	.0365	<.0000	1.259
SDev	.0015	.0016	.0023	.0016	.0024	.4313	.017
%RSD	37.12	17.90	26.88	38.85	6.631	9.935	1.381

#1	<.0000	<.0000	<.0000	<.0000	.0352	<.0000	1.247
#2	<.0000	<.0000	<.0000	<.0000	.0339	<.0000	1.281
#3	<.0000	<.0000	<.0000	<.0000	.0379	<.0000	1.244
#4	<.0000	<.0000	<.0000	<.0000	.0392	<.0000	1.264

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0368	<.0000	6.835	<.0000	<.0000	<.0000	<.0000
SDev	.0004	.0055	.043	.0067	.0116	.0282	.1470
%RSD	1.025	74.62	.6229	197.9	17.70	98.99	274.1

#1	.0371	<.0000	6.785	<.0000	<.0000	<.0000	<.0000
#2	.0371	<.0000	6.880	<.0000	<.0000	<.0000	.1594
#3	.0364	<.0000	6.817	<.0000	<.0000	<.0000	<.0000
#4	.0364	<.0000	6.858	<.0000	<.0000	<.0000	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.6546	<.0000	<.0000	.0005
SDev	.0096	.0433	.0015	.0007
%RSD	1.461	173.7	15.25	151.2

#1	.6498	<.0000	<.0000	.0007
#2	.6689	<.0000	<.0000	.0014
#3	.6498	.0380	<.0000	<.0000
#4	.6498	<.0000	<.0000	<.0000

Analysis Report

02/01/02 01:36:19 PM

page 1

Method: IECW Sample Name: 281

Operator: it

Run Time: 02/01/02 13:34:35

Comment:

Mode: CONC Corr. Factor: 1



Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0264	<.0000	.0115	<.0000	6.338
SDev	.0009	.0052	.0491	.0013	.0000	.0000	.024
%RSD	5.378	6.221	185.5	50.42	.0228	8.333	.3741

#1	<.0000	<.0000	<.0000	<.0000	.0115	<.0000	6.305
#2	<.0000	<.0000	<.0000	<.0000	.0114	<.0000	6.361
#3	<.0000	<.0000	.0464	<.0000	.0115	<.0000	6.340
#4	<.0000	<.0000	.0866	<.0000	.0114	<.0000	6.347

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	<.0000	.0309	<.0000	1.247
SDev	.0014	.0006	.0011	.0011	.0013	.4076	.015
%RSD	43.26	6.830	11.63	26.18	4.105	8.790	1.230

#1	<.0000	<.0000	<.0000	<.0000	.0312	<.0000	1.229
#2	<.0000	<.0000	<.0000	<.0000	.0299	<.0000	1.255
#3	<.0000	<.0000	<.0000	<.0000	.0299	<.0000	1.241
#4	<.0000	<.0000	<.0000	<.0000	.0326	<.0000	1.264

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0291	<.0000	7.347	<.0000	<.0000	<.0000	<.0000
SDev	.0006	.0046	.049	.0064	.0152	.0352	.1324
%RSD	2.150	50.16	.6696	99.29	25.28	173.1	123.9

#1	.0293	<.0000	7.284	<.0000	<.0000	<.0000	<.0000
#2	.0286	<.0000	7.404	<.0000	<.0000	.0285	.0073
#3	.0299	<.0000	7.349	.0011	<.0000	<.0000	<.0000
#4	.0286	<.0000	7.351	<.0000	<.0000	<.0000	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.6606	<.0000	<.0000	<.0000
SDev	.0099	.0822	.0003	.0006
%RSD	1.500	172.0	2.966	72.94

#1	.6690	<.0000	<.0000	<.0000
#2	.6498	<.0000	<.0000	<.0000
#3	.6690	.0609	<.0000	<.0000
#4	.6546	<.0000	<.0000	<.0000

Analysis Report

02/01/02 01:40:31 PM

page 1

Method: IECW Sample Name: 314

Run Time: 02/01/02 13:38:47

Comment:

Mode: CONC Corr. Factor: 1

Operator: it



Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0038	<.0000	.0109	<.0000	6.154
SDev	.0006	.0132	.0357	.0018	.0004	.0000	.019
%RSD	3.746	17.94	944.9	347.8	3.293	7.692	.3070

#1	<.0000	<.0000	<.0000	<.0000	.0107	<.0000	6.157
#2	<.0000	<.0000	.0312	<.0000	.0107	<.0000	6.168
#3	<.0000	<.0000	<.0000	.0014	.0107	<.0000	6.126
#4	<.0000	<.0000	.0312	.0007	.0115	<.0000	6.164

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	<.0000	.0349	<.0000	1.260
SDev	.0014	.0036	.0014	.0008	.0040	.3945	.013
%RSD	41.32	39.17	15.52	7.173	11.33	8.636	1.064

#1	<.0000	<.0000	<.0000	<.0000	.0339	<.0000	1.255
#2	<.0000	<.0000	<.0000	<.0000	.0365	<.0000	1.278
#3	<.0000	<.0000	<.0000	<.0000	.0299	<.0000	1.247
#4	<.0000	<.0000	<.0000	<.0000	.0392	<.0000	1.261

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0346	<.0000	7.834	<.0000	<.0000	<.0000	<.0000
SDev	.0006	.0052	.064	.0059	.0184	.0352	.1084
%RSD	1.800	51.18	.8144	1866.	43.05	96.06	201.9

#1	.0345	<.0000	7.862	<.0000	<.0000	<.0000	.0681
#2	.0351	<.0000	7.909	<.0000	<.0000	<.0000	<.0000
#3	.0338	<.0000	7.767	<.0000	<.0000	<.0000	.0073
#4	.0351	<.0000	7.799	.0078	<.0000	<.0000	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.6606	.0036	<.0000	<.0000
SDev	.0189	.0396	.0013	.0000
%RSD	2.865	1087.	11.87	.1103

#1	.6546	<.0000	<.0000	<.0000
#2	.6546	.0150	<.0000	<.0000
#3	.6450	.0380	<.0000	<.0000
#4	.6882	.0151	<.0000	<.0000

Analysis Report

02/01/02 01:45:42 PM

page 1

Method: IECW Sample Name: 315

Run Time: 02/01/02 13:43:58

Comment:

Mode: CONC Corr. Factor: 1

Operator: it

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avg	<.0000	<.0000	<.0000	<.0000	.0111	<.0000	6.120
SDev	.0010	.0130	.0742	.0011	.0004	.0000	.039
%RSD	6.113	15.50	600.1	508.1	3.763	9.091	.6439
#1	<.0000	<.0000	.0263	.0007	.0107	<.0000	6.177
#2	<.0000	<.0000	<.0000	<.0000	.0108	<.0000	6.092
#3	<.0000	<.0000	.0617	<.0000	.0115	<.0000	6.097
#4	<.0000	<.0000	<.0000	.0007	.0115	<.0000	6.115
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avg	<.0000	<.0000	<.0000	<.0000	.0332	<.0000	1.253
SDev	.0015	.0011	.0009	.0004	.0008	.2319	.011
%RSD	41.82	11.03	9.974	3.532	2.311	4.955	.9092
#1	<.0000	<.0000	<.0000	<.0000	.0326	<.0000	1.270
#2	<.0000	<.0000	<.0000	<.0000	.0326	<.0000	1.244
#3	<.0000	<.0000	<.0000	<.0000	.0339	<.0000	1.250
#4	<.0000	<.0000	<.0000	<.0000	.0339	<.0000	1.250
Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avg	.0371	<.0000	7.201	<.0000	<.0000	<.0000	<.0000
SDev	.0011	.0030	.034	.0033	.0230	.0488	.0874
%RSD	2.871	21.76	.4667	97.17	41.10	109.1	71.58
#1	.0384	<.0000	7.245	<.0000	<.0000	<.0000	.0072
#2	.0358	<.0000	7.194	<.0000	<.0000	<.0000	<.0000
#3	.0371	<.0000	7.200	<.0000	<.0000	<.0000	<.0000
#4	.0371	<.0000	7.164	<.0000	<.0000	<.0000	<.0000
Elem	Si2881	Tl1908	V_2924	Zn2138			
Avg	.6474	.0323	<.0000	<.0000			
SDev	.0164	.1402	.0011	.0009			
%RSD	2.527	434.6	10.43	37.07			
#1	.6690	.0380	<.0000	<.0000			
#2	.6498	<.0000	<.0000	<.0000			
#3	.6306	.1981	<.0000	<.0000			
#4	.6402	.0380	<.0000	<.0000			

Analysis Report

02/01/02 01:48:55 PM

page 1

Method: IECW Sample Name: 316

Operator: it

Run Time: 02/01/02 13:47:11

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	<.0000	<.0000	.0107	<.0000	6.199
SDev	.0016	.0086	.0499	.0015	.0000	.0000	.028
%RSD	10.26	10.41	309.2	101.8	.0269	8.333	.4462

#1	<.0000	<.0000	.0465	<.0000	.0107	<.0000	6.228
#2	<.0000	<.0000	<.0000	<.0000	.0107	<.0000	6.203
#3	<.0000	<.0000	<.0000	<.0000	.0107	<.0000	6.161
#4	<.0000	<.0000	<.0000	<.0000	.0107	<.0000	6.205

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	<.0000	.0293	<.0000	1.250
SDev	.0017	.0007	.0012	.0013	.0017	.1645	.012
%RSD	41.52	6.673	12.26	15.50	5.855	3.437	.9498

#1	<.0000	<.0000	<.0000	<.0000	.0273	<.0000	1.261
#2	<.0000	<.0000	<.0000	<.0000	.0312	<.0000	1.247
#3	<.0000	<.0000	<.0000	<.0000	.0286	<.0000	1.235
#4	<.0000	<.0000	<.0000	<.0000	.0299	<.0000	1.258

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0337	<.0000	8.160	.0002	<.0000	<.0000	<.0000
SDev	.0006	.0030	.052	.0037	.0143	.0266	.0583
%RSD	1.856	29.61	.6404	1495.	20.98	50.26	151.8

#1	.0338	<.0000	8.217	.0011	<.0000	<.0000	<.0000
#2	.0345	<.0000	8.190	<.0000	<.0000	<.0000	<.0000
#3	.0332	<.0000	8.125	<.0000	<.0000	<.0000	.0072
#4	.0332	<.0000	8.107	.0044	<.0000	<.0000	.0073

Elem	Si2881	Ti1908	V_2924	Zn2138
Avge	.6306	<.0000	<.0000	<.0000
SDev	.0170	.1089	.0006	.0004
%RSD	2.703	109.7	5.362	36.55

#1	.6402	.0609	<.0000	<.0000
#2	.6163	<.0000	<.0000	<.0000
#3	.6163	<.0000	<.0000	<.0000
#4	.6498	<.0000	<.0000	<.0000

Analysis Report

02/01/02 01:53:04 PM

page 1

Method: IECW Sample Name: 317

Operator: it

Run Time: 02/01/02 13:51:20

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0638	<.0000	.0118	<.0000	6.629
SDev	.0007	.0072	.0575	.0013	.0004	.0000	.040
%RSD	4.422	9.233	90.14	303.0	3.560	.0000	.6025

#1	<.0000	<.0000	.0915	<.0000	.0114	<.0000	6.628
#2	<.0000	<.0000	.1114	<.0000	.0121	<.0000	6.609
#3	<.0000	<.0000	<.0000	<.0000	.0121	<.0000	6.593
#4	<.0000	<.0000	.0713	.0013	.0114	<.0000	6.685

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	<.0000	.0467	<.0000	1.427
SDev	.0005	.0010	.0011	.0008	.0020	.2738	.012
%RSD	19.50	11.02	11.24	80.21	4.242	6.159	.8502

#1	<.0000	<.0000	<.0000	<.0000	.0457	<.0000	1.414
#2	<.0000	<.0000	<.0000	<.0000	.0457	<.0000	1.429
#3	<.0000	<.0000	<.0000	<.0000	.0457	<.0000	1.423
#4	<.0000	<.0000	<.0000	<.0000	.0497	<.0000	1.443

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0492	<.0000	7.627	.0024	<.0000	<.0000	<.0000
SDev	.0004	.0060	.041	.0014	.0199	.0278	.1176
%RSD	.7650	59.07	.5413	57.76	35.09	85.34	191.6

#1	.0488	<.0000	7.665	.0044	<.0000	<.0000	.0985
#2	.0495	<.0000	7.601	.0010	<.0000	<.0000	<.0000
#3	.0488	<.0000	7.583	.0022	<.0000	<.0000	<.0000
#4	.0495	<.0000	7.660	.0022	<.0000	<.0000	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.6867	<.0000	<.0000	<.0000
SDev	.0181	.0507	.0011	.0011
%RSD	2.633	367.9	11.11	108.7

#1	.6735	.0377	<.0000	.0006
#2	.6735	<.0000	<.0000	<.0000
#3	.6879	.0148	<.0000	<.0000
#4	.7118	<.0000	<.0000	<.0000

Analysis Report

02/01/02 01:55:41 PM

page 1

Method: IECW Sample Name: 318

Run Time: 02/01/02 13:53:57

Comment:

Mode: CONC Corr. Factor: 1

Operator: it

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0006	.0117	.0266	<.0000	25.01
SDev	.0015	.0099	.0734	.0009	.0004	.0000	.13
%RSD	9.713	11.21	13150.	7.575	1.361	.0000	.5141

#1	<.0000	<.0000	<.0000	.0117	.0268	<.0000	24.90
#2	<.0000	<.0000	.0319	.0111	.0268	<.0000	25.19
#3	<.0000	<.0000	.0869	.0111	.0268	<.0000	24.94
#4	<.0000	<.0000	<.0000	.0130	.0261	<.0000	25.03

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	.0019	.0524	<.0000	8.263
SDev	.0008	.0011	.0011	.0013	.0029	.2880	.062
%RSD	33.25	12.00	15.95	67.12	5.561	9.984	.7540

#1	<.0000	<.0000	<.0000	.0025	.0514	<.0000	8.210
#2	<.0000	<.0000	<.0000	.0025	.0566	<.0000	8.349
#3	<.0000	<.0000	<.0000	.0025	.0501	<.0000	8.224
#4	<.0000	<.0000	<.0000	<.0000	.0514	<.0000	8.268

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.1121	<.0000	27.58	.0030	<.0000	<.0000	<.0000
SDev	.0008	.0037	.18	.0047	.0086	.0361	.1227
%RSD	.7297	72.27	.6610	157.4	13.29	392.9	649.7

#1	.1123	<.0000	27.48	<.0000	<.0000	<.0000	<.0000
#2	.1129	<.0000	27.78	.0094	<.0000	<.0000	<.0000
#3	.1110	<.0000	27.38	.0016	<.0000	<.0000	.1561
#4	.1123	<.0000	27.67	.0027	<.0000	.0437	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	1.550	.0668	<.0000	.0001
SDev	.019	.0507	.0013	.0007
%RSD	1.245	75.92	13.87	568.4

#1	1.524	.0040	<.0000	.0011
#2	1.567	.0495	<.0000	<.0000
#3	1.562	.0955	<.0000	<.0000
#4	1.548	.1183	<.0000	.0003

Analysis Report

02/01/02 01:58:56 PM

page 1

Method: IECW Sample Name: 319

Operator: it

Run Time: 02/01/02 13:57:12

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	<.0000	<.0000	.0113	<.0000	6.269
SDev	.0022	.0096	.0330	.0019	.0004	.0000	.051
%RSD	13.81	11.07	205.0	3293.	3.171	8.333	.8103

#1	<.0000	<.0000	.0266	<.0000	.0107	<.0000	6.229
#2	<.0000	<.0000	<.0000	<.0000	.0115	<.0000	6.255
#3	<.0000	<.0000	<.0000	<.0000	.0115	<.0000	6.246
#4	<.0000	<.0000	<.0000	.0026	.0115	<.0000	6.343

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	<.0000	.0319	<.0000	1.242
SDev	.0011	.0023	.0019	.0011	.0023	.1253	.019
%RSD	30.01	24.42	19.01	44.00	7.172	2.749	1.535

#1	<.0000	<.0000	<.0000	<.0000	.0299	<.0000	1.224
#2	<.0000	<.0000	<.0000	<.0000	.0299	<.0000	1.229
#3	<.0000	<.0000	<.0000	<.0000	.0339	<.0000	1.252
#4	<.0000	<.0000	<.0000	<.0000	.0339	<.0000	1.264

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0255	<.0000	7.340	<.0000	<.0000	<.0000	<.0000
SDev	.0008	.0046	.033	.0048	.0083	.0387	.0583
%RSD	3.214	31.41	.4543	213.0	14.59	86.63	732.2

#1	.0247	<.0000	7.312	<.0000	<.0000	<.0000	<.0000
#2	.0253	<.0000	7.345	<.0000	<.0000	<.0000	<.0000
#3	.0253	<.0000	7.318	.0022	<.0000	<.0000	.0681
#4	.0266	<.0000	7.386	<.0000	<.0000	<.0000	.0072

Elem	Si2881	Ti1908	V_2924	Zn2138
Avge	.6402	.0151	<.0000	<.0000
SDev	.0187	.0647	.0015	.0009
%RSD	2.927	428.0	15.28	342.1

#1	.6163	.0152	<.0000	<.0000
#2	.6355	.1067	<.0000	<.0000
#3	.6498	<.0000	<.0000	<.0000
#4	.6594	<.0000	<.0000	.0007

Analysis Report

02/01/02 02:11:59 PM

page 1

Method: IECW Sample Name: ipc

Operator: it

Run Time: 02/01/02 14:09:19

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	.5398	1.010	.0579	.9702	1.009	.9606	1.001
SDev	.0013	.005	.0312	.0046	.003	.0021	.003
%RSD	.2485	.5198	88.60	.4721	.3109	.2161	.3378

#1	.5389	1.010	.0516	.9732	1.008	.9600	.9997
#2	.5398	1.004	.1316	.9663	1.010	.9623	1.005
#3	.5389	1.010	.0316	.9663	1.004	.9580	.9972
#4	.5417	1.016	.0166	.9751	1.012	.9623	.9999

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	1.001	.9903	.9659	.9829	.9910	.94398	.9657
SDev	.006	.0028	.0030	.0021	.0029	.0991	.0143
%RSD	.6138	.2843	.3095	.2132	.2886	22.54	1.481

#1	1.005	.9922	.9660	.9801	.9910	.4149	.9671
#2	.9942	.9927	.9664	.9827	.9950	.3154	.9843
#3	.9979	.9899	.9620	.9835	.9884	.5477	.9500
#4	1.008	.9865	.9692	.9852	.9897	.4813	.9614

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.9902	.9765	1.003	.9837	.9743	.9230	<.0000
SDev	.0015	.0070	.037	.0135	.0087	.0485	.0290
%RSD	.1568	.7143	3.691	1.368	.8963	5.258	104.1

#1	.9905	.9756	1.012	.9865	.9700	.9108	<.0000
#2	.9912	.9719	1.008	.9943	.9874	.8783	<.0000
#3	.9879	.9867	1.041	.9641	.9700	.9921	<.0000
#4	.9912	.9719	.9521	.9899	.9700	.9108	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.9418	.9357	.9891	.9904
SDev	.0045	.11213	.0019	.0007
%RSD	.4744	12.96	.1974	.0748

#1	.9383	1.039	.9885	.9908
#2	.9383	1.039	.9909	.9893
#3	.9476	.8550	.9866	.9908
#4	.9430	.8088	.9903	.9908

Analysis Report

02/01/02 02:17:13 PM

page 1

Method: IECW Sample Name: cb

Run Time: 02/01/02 14:12:17

Comment:

Operator: it

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0001	<.0000	.0000	.0003	<.0000
SDev	.0025	.0161	.0642	.0016	.0004	.0001	.0034
%RSD	518.8	222.1	69950.	90.72	195900.	35.53	1845.
#1	<.0000	<.0000	<.0000	<.0000	.0002	.0004	<.0000
#2	.0025	.0016	.0661	<.0000	.0002	.0004	.0033
#3	<.0000	<.0000	<.0000	<.0000	<.0000	.0002	<.0000
#4	.0006	.0070	.0361	<.0000	.0002	.0002	.0021
Elem	Sd2288	Co2286	Cr2677	Cu3247	Fe2599	P_7664	Mg2790
Avge	<.0000	<.0000	.0015	.0017	.0010	<.0000	<.0000
SDev	.0013	.0030	.0008	.0013	.0024	.4303	.0083
%RSD	979.8	8218.	50.79	74.97	243.0	370.3	1156.
#1	<.0000	<.0000	.0005	.0006	<.0000	<.0000	<.0000
#2	<.0000	.0041	.0021	.0023	.0036	.3485	.0064
#3	.0004	<.0000	.0013	.0006	<.0000	<.0000	<.0000
#4	.0015	.0001	.0021	.0031	.0023	.1494	.0064
Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0008	.0203	<.0000	<.0000	<.0000	<.0000	<.0000
SDev	.0006	.0064	.0361	.0037	.0148	.0360	.0553
%RSD	76.56	31.53	653.9	261.4	99.79	110.8	91.31
#1	.0013	.0295	<.0000	<.0000	<.0000	<.0000	<.0000
#2	.0013	.0147	.0286	<.0000	<.0000	<.0000	<.0000
#3	.0000	.0184	<.0000	.0031	<.0000	<.0000	<.0000
#4	.0007	.0184	.0226	<.0000	<.0000	.0040	<.0000
Elem	Si2881	Ti1908	V_2924	Zn2138			
Avge	<.0000	<.0000	.0005	.0006			
SDev	.0122	.0606	.0018	.0014			
%RSD	150.2	58.44	383.0	243.1			
#1	.0023	<.0000	<.0000	<.0000			
#2	<.0000	<.0000	.0015	<.0000			
#3	<.0000	<.0000	.0009	.0013			
#4	<.0000	<.0000	.0015	.0020			