

Analysis Report

10/18/01 09:30:07 AM

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Method: IECW Sample Name: ipc
 Run Time: 10/18/01 09:28:22
 Comment:
 Mode: CONC Corr. Factor: 1

Operator: it

*Run of 10/18/01
 One missing sample
 AD24288*

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	.5037 ✓	.9691 ✓	.0051	1.003	.9703 ✓	.9865 ✓	.9949 ✓
SDev	.0036	.0102	.0385	.007	.0028	.0020	.0047
%RSD	.7109	1.055	751.8	.6508	.2897	.2051	.4720
#1	.5030	.9566	.0176	1.002	.9742	.9873	.9979
#2	.5022	.9816	.0319	1.002	.9683	.9879	.9889
#3	.5007	.9683	.0229	.9958	.9703	.9835	.9937
#4	.5089	.9698	<.0000	1.012	.9683	.9874	.9993

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.9833 ✓	.9873 ✓	1.002 ✓	.9511 ✓	.9837 ✓	<.0000	.9795
SDev	.0037	.0036	.002	.0035	.0058	.3756	.0105
%RSD	.3786	.3592	.1917	.3712	.5874	24.06	1.072
#1	.9790	.9912	1.001	.9487	.9778	<.0000	.9902
#2	.9875	.9893	1.005	.9535	.9887	<.0000	.9652
#3	.9849	.9838	1.001	.9475	.9796	<.0000	.9831
#4	.9817	.9848	1.002	.9547	.9887	<.0000	.9795

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.9833 ✓	.9761 ✓	1.015 ✓	.9939 ✓	.9677	.9483	<.0000
SDev	.0031	.0119	.044	.0144	.0357	.0172	.0284
%RSD	.3173	1.220	4.323	1.445	3.694	1.815	366.7
#1	.9874	.9596	.9579	1.002	.9317	.9570	<.0000
#2	.9801	.9848	1.009	.9861	.9587	.9340	.0253
#3	.9819	.9753	1.029	.9782	.9632	.9340	.0033
#4	.9838	.9848	1.063	1.010	1.017	.9684	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	848.9	1.135 ✓	.9789 ✓	.9951 ✓
SDev	9.2	.112	.0029	.0053
%RSD	1.079	9.873	.3007	.5323
#1	847.8	.9985	.9801	1.001
#2	838.9	1.201	.9782	.9908
#3	847.8	1.092	.9752	.9903
#4	861.1	1.248	.9821	.9987

QC Reviewed by,
[Signature] 11/7/01

Analysis Report

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Method: IECW Sample Name: cb

Operator: it

Run Time: 10/18/01 09:30:47

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	.0007 ✓	.0051 ✓	<.0000	.0029	<.0000 ✓	.0005 ✓	.0022 ✓
SDev	.0015	.0156	.0463	.0014	.0019	.0002	.0023
%RSD	208.2	302.7	1002.	48.35	503000.	43.48	106.1

#1	.0026	.0235	.0093	.0029	.0005	.0008	.0052
#2	<.0000	<.0000	<.0000	.0012	<.0000	.0005	<.0000
#3	.0004	.0103	<.0000	.0046	.0025	.0004	.0013
#4	.0011	.0000	.0461	.0029	<.0000	.0003	.0026

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000 ✓	<.0000 ✓	.0007 ✓	<.0000 ✓	<.0000 ✓	<.0000	.0036 ✓
SDev	.0022	.0021	.0015	.0018	.0017	.7343	.0194
%RSD	274.8	1164.	201.9	200.0	31.95	418.7	543.9

#1	<.0000	.0006	.0010	<.0000	<.0000	.5437	.0312
#2	.0016	<.0000	<.0000	<.0000	<.0000	<.0000	.0027
#3	<.0000	.0023	.0010	.0012	<.0000	.3332	<.0000
#4	<.0000	<.0000	.0022	<.0000	<.0000	<.0000	<.0000

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0007 ✓	.0197 ✓	.0423 ✓	.0003 ✓	<.0000	.0373	<.0000
SDev	.0005	.0052	.0425	.0091	.0236	.0473	.0431
%RSD	66.64	26.11	100.6	2788.	2470000.	127.0	120.5

#1	.0009	.0260	.0761	<.0000	.0022	.0085	<.0000
#2	.0000	.0197	.0355	<.0000	.0112	.0774	<.0000
#3	.0009	.0134	.0727	.0079	.0202	<.0000	.0082
#4	.0009	.0197	<.0000	.0079	<.0000	.0774	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.0001	<.0000 ✓	<.0000 ✓	.0002 ✓
SDev	6.667	.0849	.0016	.0010
%RSD	8919000.	155.4	109.0	415.8

#1	<.0000	<.0000	<.0000	.0015
#2	<.0000	.0351	<.0000	<.0000
#3	3.333	<.0000	.0005	.0000
#4	7.778	<.0000	<.0000	.0005

OK

Analysis Report

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Method: IECW Sample Name: lfb

Operator: it

Run Time: 10/18/01 10:27:06

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	.0210	.2402	.2367	.2541	.2395	.0486	.0228
SDev	.0027	.0137	.0342	.0023	.0020	.0001	.0032
%RSD	12.93	5.682	14.46	.9076	.8299	.1709	14.21

#1	.0180	.2203	.2452	.2575	.2405	.0487	.0205
#2	.0195	.2439	.2559	.2524	.2365	.0485	.0215
#3	.0239	.2454	.2596	.2532	.2405	.0487	.0218
#4	.0224	.2513	.1862	.2532	.2405	.0486	.0276

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.1016	.1007	.2505	.2540	.2569	<.0000	<.0000
SDev	.0014	.0010	.0021	.0018	.0031	.2311	.0119
%RSD	1.381	.9638	.8443	.7083	1.199	11.01	131.3

#1	.1036	.0995	.2482	.2525	.2609	<.0000	<.0000
#2	.1015	.1018	.2494	.2525	.2555	<.0000	<.0000
#3	.1010	.1006	.2528	.2549	.2573	<.0000	.0071
#4	.1004	.1011	.2517	.2561	.2537	<.0000	<.0000

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.2471	.1111	.0322	.2601	.2543	.2265	.2612
SDev	.0014	.0094	.0310	.0039	.0200	.0237	.0426
%RSD	.5544	8.482	96.25	1.514	7.852	10.48	16.32

#1	.2455	.1087	.0186	.2634	.2476	.2237	.2199
#2	.2464	.0992	.0288	.2555	.2746	.2236	.2861
#3	.2483	.1213	.0050	.2582	.2296	.2581	.3081
#4	.2483	.1150	.0764	.2634	.2656	.2006	.2308

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	188.9	.2604	.0968	.2513
SDev	13.8	.0819	.0029	.0005
%RSD	7.284	31.44	3.041	.1948

#1	181.1	.3735	.0926	.2510
#2	190.0	.1864	.0976	.2510
#3	207.8	.2643	.0976	.2520
#4	176.7	.2176	.0995	.2510

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Method: IECW Sample Name: lrb

Operator: it

Run Time: 10/18/01 10:30:11

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avg	.0015	.0018	<.0000	<.0000	.0000	<.0000	.0003
SDev	.0015	.0152	.0144	.0009	.0000	.0001	.0029
%RSD	103.1	822.0	36.01	147.4	201.6	115.5	861.7

#1	.0032	.0022	<.0000	<.0000	<.0000	<.0000	<.0000
#2	.0017	<.0000	<.0000	<.0000	.0000	.0000	<.0000
#3	.0017	.0214	<.0000	.0005	<.0000	.0000	.0046
#4	<.0000	<.0000	<.0000	<.0000	.0000	<.0000	<.0000

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avg	.0008	.0014	<.0000	<.0000	.0018	<.0000	<.0000
SDev	.0012	.0019	.0027	.0021	.0017	.4250	.0211
%RSD	147.8	131.3	122.6	683.1	95.20	40.51	157.6

#1	.0001	.0042	<.0000	.0006	.0032	<.0000	<.0000
#2	<.0000	.0010	<.0000	<.0000	.0032	<.0000	.0072
#3	.0012	.0003	<.0000	.0018	.0014	<.0000	<.0000
#4	.0023	.0003	<.0000	<.0000	<.0000	<.0000	<.0000

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avg	.0000	.0047	.0230	.0072	.0259	<.0000	.0331
SDev	.0005	.0058	.0330	.0092	.0288	.0196	.0460
%RSD	83700.	121.8	143.8	127.2	111.3	227.3	138.9

#1	<.0000	.0110	.0629	<.0000	.0225	<.0000	<.0000
#2	<.0000	.0079	.0323	.0010	.0045	<.0000	.0442
#3	.0007	<.0000	<.0000	.0115	.0090	.0172	.0220
#4	<.0000	.0016	.0119	.0181	.0676	<.0000	.0884

Elem	Si2881	Ti1908	V_2924	Zn2138
Avg	11.11	.0857	.0002	.0004
SDev	12.77	.0413	.0017	.0008
%RSD	114.9	48.13	682.7	227.9

#1	3.333	.0623	.0010	<.0000
#2	3.333	.0468	<.0000	.0007
#3	30.00	.0935	.0020	.0002
#4	7.778	.1403	.0000	.0012

Analysis Report

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Method: IECW Sample Name: 24288

Operator: it

Run Time: 10/18/01 11:29:00

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	.0031	.0310	.0107	.0043	.0168	<.0000	5.682
SDev	.0012	.0043	.0131	.0016	.0010	.0000	.011
%RSD	39.56	14.01	123.1	37.82	5.901	200.0	.1909

#1	.0031	.0266	.0180	.0036	.0153	.0000	5.667
#2	.0016	.0310	.0015	.0066	.0173	<.0000	5.683
#3	.0045	.0369	.0252	.0027	.0173	.0000	5.693
#4	.0031	.0295	<.0000	.0044	.0173	.0000	5.684

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.0019	.0042	.0013	.0026	.0194	<.0000	1.211
SDev	.0018	.0025	.0009	.0011	.0034	.6344	.012
%RSD	93.88	58.05	72.58	44.86	17.78	78.86	.9761

#1	.0022	.0047	.0001	.0017	.0167	<.0000	1.208
#2	.0001	.0027	.0013	.0017	.0239	<.0000	1.198
#3	.0043	.0075	.0013	.0029	.0167	<.0000	1.212
#4	.0011	.0020	.0025	.0041	.0203	<.0000	1.226

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0246	.0109	7.055	.0082	.0360	.0026	.0242
SDev	.0014	.0026	.026	.0043	.0296	.0473	.0867
%RSD	5.579	23.51	.3657	52.72	82.31	1826.	358.9

#1	.0225	.0078	7.064	.0033	<.0000	<.0000	.0435
#2	.0252	.0109	7.020	.0138	.0405	.0630	.0214
#3	.0252	.0141	7.054	.0072	.0720	<.0000	<.0000
#4	.0252	.0109	7.081	.0086	.0315	.0170	.1208

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	785.5	.0720	.0029	.0011
SDev	12.0	.0448	.0016	.0000
%RSD	1.532	62.21	55.53	.0463

#1	803.3	.0447	.0009	.0011
#2	781.1	.0603	.0029	.0011
#3	781.1	.1382	.0049	.0011
#4	776.7	.0447	.0029	.0011

Analysis Report

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Method: IECW Sample Name: ipc

Operator: it

Run Time: 10/18/01 11:34:44

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avg	.5091	1.009	<.0000	1.009	.9703	.9986	1.040
SDev	.0016	.021	.0437	.011	.0055	.0068	.010
%RSD	.3230	2.112	568.4	1.045	.5641	.6780	.9242
#1	.5074	1.006	<.0000	1.001	.9678	.9905	1.054
#2	.5082	.9820	<.0000	1.017	.9738	1.002	1.036
#3	.5111	1.034	<.0000	.9984	.9638	.9958	1.033
#4	.5097	1.013	.0523	1.019	.9758	1.006	1.036
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avg	.9817	.9989	1.002	.9553	1.008	<.0000	.9763
SDev	.0108	.0061	.006	.0066	.011	.4623	.0189
%RSD	1.097	.6066	.5612	.6877	1.115	27.82	1.939
#1	.9711	.9951	.9943	.9481	1.023	<.0000	.9799
#2	.9844	.9974	1.008	.9589	1.009	<.0000	.9656
#3	.9759	.9953	1.001	.9517	.9960	<.0000	.9584
#4	.9956	1.008	1.004	.9625	1.005	<.0000	1.001
Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avg	.9839	.9721	1.069	1.012	.9993	.9288	<.0000
SDev	.0070	.0197	.028	.007	.0247	.0425	.0404
%RSD	.7127	2.025	2.614	.6968	2.468	4.575	783.5
#1	.9809	.9539	1.068	1.014	1.026	.9115	<.0000
#2	.9855	.9603	1.106	1.003	.9678	.8770	.0391
#3	.9763	.9981	1.065	1.011	.9948	.9690	<.0000
#4	.9928	.9760	1.038	1.020	1.008	.9575	.0169
Elem	Si2881	Tl1908	V_2924	Zn2138			
Avg	890.0	1.048	.9862	.9936			
SDev	4.4	.030	.0059	.0070			
%RSD	.4994	2.846	.5970	.7092			
#1	892.2	1.071	.9847	.9886			
#2	892.2	1.009	.9946	.9955			
#3	883.3	1.071	.9808	.9876			
#4	892.2	1.040	.9847	1.003			

Analysis Report

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Method: IECW Sample Name: cb

Operator: it

Run Time: 10/18/01 11:46:02

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	.0026	.0114	.0199	.0007	.0010	.0000	.0041
SDev	.0006	.0177	.0284	.0015	.0011	.0000	.0017
%RSD	23.33	154.3	142.5	206.1	115.8	.0000	40.42

#1	.0033	.0030	<.0000	<.0000	<.0000	.0000	.0057
#2	.0026	.0089	.0122	<.0000	.0020	.0000	.0018
#3	.0026	.0369	.0429	.0016	<.0000	.0000	.0047
#4	.0019	<.0000	.0416	.0024	.0020	.0000	.0044

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	.0031	.0011	.0006	.0022	.3957	.0456
SDev	.0015	.0020	.0016	.0015	.0052	.5099	.0079
%RSD	96.10	63.81	144.0	251.9	232.4	128.9	17.39

#1	<.0000	.0036	.0011	<.0000	<.0000	.8601	.0411
#2	<.0000	.0049	.0023	.0003	.0086	.1032	.0375
#3	<.0000	.0036	.0023	.0027	.0031	.7913	.0554
#4	<.0000	.0003	<.0000	.0003	.0013	<.0000	.0483

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0007	.0032	.0333	.0121	.0068	.0201	.0027
SDev	.0008	.0032	.0355	.0047	.0128	.0345	.0761
%RSD	109.2	100.4	106.7	38.51	188.8	171.8	2821.

#1	<.0000	.0079	.0051	.0056	.0158	.0374	.0551
#2	.0007	.0016	.0733	.0148	.0068	<.0000	<.0000
#3	.0016	.0016	.0529	.0161	<.0000	.0373	.0661
#4	.0007	.0016	.0017	.0121	.0158	.0374	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	25.56	.0353	.0017	.0001
SDev	5.13	.1418	.0017	.0006
%RSD	20.08	401.8	97.68	512.5

#1	21.11	<.0000	<.0000	<.0000
#2	30.00	.2397	.0020	<.0000
#3	30.00	.0195	.0039	<.0000
#4	21.11	<.0000	.0010	.0010