

9/27/01 10:04A

Blk IT

SSID

IPC+CB

LFB+LRB

23471+spk

23472

23473

23497

23498

499

500

501

502

503

IPC+CB

23027

23028+spk

23029

23030

23031

23032

23033

23034

23035

23036

IPC+CB

xipe Blk

$$\text{spk} \quad \frac{3.839 \times 50}{11043} = 1840.36 \quad 96.1$$

$$\text{Def} \quad \frac{3.849 \times 50}{11061} = 1813.85 \quad 94.8$$

$$23664 \div 3. \quad \frac{132 \times 50}{1} = 6.6$$

CCV+CCB

Analysis Report

09/27/01 11:09:42 AM

page

Method: IECW Sample Name: ipc (qcs)

Run Time: 09/27/01 10:35:03

Comment:

Mode: CONC Corr. Factor: 1

Operator: it

9/27/01



Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	.5080	1.005	<.0000	1.006	.9837	.9884	1.014
SDev	.0027	.006	.0153	.007	.0048	.0026	.005
%RSD	.5278	.6331	345.3	.6571	.4913	.2648	.5316

#1	.5042	1.001	.0054	1.011	.9833	.9895	1.019
#2	.5082	1.001	<.0000	1.006	.9833	.9876	1.009
#3	.5102	1.014	.0104	1.012	.9900	.9912	1.019
#4	.5095	1.003	<.0000	.9975	.9783	.9852	1.011

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	1.000	1.004	1.016	.9665	.9910	<.0000	.9779
SDev	.009	.002	.003	.0035	.0096	.3136	.0133
%RSD	.9050	.2320	.2961	.3667	.9671	16.05	1.356

#1	1.005	1.003	1.015	.9684	.9968	<.0000	.9690
#2	1.004	1.004	1.013	.9631	.9829	<.0000	.9948
#3	1.005	1.007	1.020	.9706	1.001	<.0000	.9658
#4	.9865	1.001	1.014	.9641	.9829	<.0000	.9819

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.9939	.9676	1.047	1.001	.9652	.9779	<.0000
SDev	.0050	.0033	.032	.008	.0211	.0374	.0578
%RSD	.5039	.3448	3.093	.7802	2.186	3.828	4752.

#1	.9962	.9692	1.019	1.012	.9867	1.010	.0320
#2	.9924	.9692	1.025	.9950	.9724	.9499	<.0000
#3	.9993	.9692	1.056	.9983	.9652	1.010	.0631
#4	.9877	.9626	1.089	.9983	.9366	.9413	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	1.065	1.030	1.007	1.014
SDev	.010	.023	.004	.004
%RSD	.9208	2.266	.4046	.3958

#1	1.070	1.017	1.010	1.019
#2	1.070	1.006	1.003	1.014
#3	1.051	1.038	1.010	1.016
#4	1.070	1.059	1.004	1.009

Analysis Report

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Method: IECW Sample Name: cb

Operator: it

Run Time: 09/27/01 11:13:12

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avg	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000
SDev	.0017	.0124	.0250	.0013	.0008	.0001	.0024
%RSD	38.72	66.36	207.1	81.09	40.08	1.132	18.52

#1	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000
#2	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000
#3	<.0000	<.0000	.0161	.0001	<.0000	<.0000	<.0000
#4	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avg	.0003	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000
SDev	.0013	.0013	.0029	.0010	.0022	.4536	.0161
%RSD	383.0	60.39	118.0	27.36	33.37	15.61	49.93

#1	.0015	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000
#2	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000
#3	.0015	<.0000	.0011	<.0000	<.0000	<.0000	<.0000
#4	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avg	<.0000	<.0000	<.0000	.0016	<.0000	<.0000	.0157
SDev	.0004	.0073	.0382	.0065	.0220	.0452	.0619
%RSD	50.10	28.12	79.04	395.6	55.81	528.7	394.2

#1	<.0000	<.0000	<.0000	.0112	<.0000	<.0000	<.0000
#2	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000
#3	<.0000	<.0000	<.0000	.0003	<.0000	.0151	.0605
#4	<.0000	<.0000	.0015	<.0000	<.0000	.0323	.0761

Elem	Si2881	Tl1908	V_2924	Zn2138
Avg	<.0000	<.0000	<.0000	<.0000
SDev	.0098	.0354	.0023	.0008
%RSD	270.7	84.27	87.74	39.30

#1	.0013	.0001	<.0000	<.0000
#2	<.0000	<.0000	<.0000	<.0000
#3	.0013	<.0000	<.0000	<.0000
#4	.0013	<.0000	<.0000	<.0000

Method: IECW Sample Name: lfb

Run Time: 09/27/01 11:27:00

Comment:

Mode: CONC Corr. Factor: 1

Operator: it

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	.0018	.2277	.2948	.2624	.2447	.0489	.0078
SDev	.0050	.0343	.0069	.0014	.0010	.0003	.0067
%RSD	272.7	15.05	2.327	.5391	.3964	.6474	86.67

#1	<.0000	.1824	.2893	.2613	.2439	.0486	<.0000
#2	.0023	.2436	.2988	.2643	.2456	.0494	.0106
#3	.0070	.2622	.3024	.2628	.2439	.0488	.0150
#4	.0030	.2223	.2887	.2613	.2456	.0488	.0062

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.1027	.1018	.2514	.2640	.2597	<.0000	<.0000
SDev	.0024	.0051	.0027	.0025	.0065	1.809	.0299
%RSD	2.366	4.995	1.088	.9592	2.496	71.36	75.81

#1	.1013	.0944	.2496	.2605	.2508	<.0000	<.0000
#2	.1062	.1055	.2555	.2658	.2662	<.0000	<.0000
#3	.1008	.1047	.2506	.2658	.2600	<.0000	<.0000
#4	.1026	.1026	.2501	.2637	.2616	<.0000	<.0000

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.2494	.1068	<.0000	.2469	.2310	.2294	.2002
SDev	.0020	.0021	.0441	.0091	.0441	.0283	.0448
%RSD	.8140	1.973	144.8	3.693	19.08	12.35	22.39

#1	.2465	.1052	<.0000	.2341	.1937	.1929	.1887
#2	.2503	.1096	<.0000	.2472	.2470	.2358	.2354
#3	.2496	.1073	<.0000	.2549	.2861	.2615	.2353
#4	.2511	.1051	<.0000	.2516	.1972	.2272	.1416

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.2390	.3094	.0961	.2546
SDev	.0248	.0944	.0031	.0012
%RSD	10.36	30.50	3.245	.4581

#1	.2085	.2991	.0933	.2531
#2	.2475	.4040	.0968	.2559
#3	.2329	.1833	.1002	.2551
#4	.2672	.3515	.0941	.2543

Analysis Report

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Method: IECW Sample Name: lrb

Operator: it

Run Time: 09/27/01 11:32:43

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0074	<.0000	<.0000	<.0000	<.0000
SDev	.0025	.0104	.0251	.0008	.0008	.0000	.0054
%RSD	184.8	46.49	339.5	68.45	200.2	.0000	685.0

#1	<.0000	<.0000	.0158	<.0000	.0000	<.0000	.0042
#2	.0023	<.0000	.0156	<.0000	<.0000	<.0000	.0030
#3	<.0000	<.0000	.0275	<.0000	<.0000	<.0000	<.0000
#4	<.0000	<.0000	<.0000	<.0000	.0000	<.0000	<.0000

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	.0006	<.0000	<.0000	<.0000	<.0000	<.0000
SDev	.0012	.0020	.0012	.0014	.0030	.1787	.0272
%RSD	88.28	362.2	77.49	55.92	127.6	22.98	188.1

#1	<.0000	.0025	<.0000	<.0000	<.0000	<.0000	<.0000
#2	<.0000	.0013	<.0000	<.0000	.0015	<.0000	.0088
#3	<.0000	.0006	<.0000	<.0000	<.0000	<.0000	<.0000
#4	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000	.0088

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	<.0000	.0028	<.0000	<.0000	.0107	<.0000	<.0000
SDev	.0000	.0028	.0324	.0047	.0309	.0293	.0703
%RSD	.2376	100.0	224.5	216.6	289.7	151.9	257.9

#1	<.0000	<.0000	.0236	.0000	.0409	<.0000	.0568
#2	<.0000	.0055	<.0000	<.0000	.0338	<.0000	<.0000
#3	<.0000	.0033	<.0000	.0022	<.0000	<.0000	.0021
#4	<.0000	.0033	<.0000	<.0000	<.0000	.0216	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	<.0000	.0053	<.0000	<.0000
SDev	.0073	.0515	.0018	.0007
%RSD	200.7	971.6	69.41	245.1

#1	<.0000	.0474	<.0000	.0005
#2	<.0000	<.0000	<.0000	.0001
#3	<.0000	.0474	<.0000	<.0000
#4	.0073	<.0000	<.0000	<.0000

Analysis Report

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Method: IECW Sample Name: 23471

Operator: it

Run Time: 09/27/01 11:36:57

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0199	.0031	.0154	<.0000	5.475
SDev	.0016	.0278	.0117	.0009	.0010	.0000	.017
%RSD	38.83	86.95	58.66	28.29	6.301	40.00	.3023

#1	<.0000	<.0000	.0251	.0022	.0146	<.0000	5.472
#2	<.0000	<.0000	.0258	.0037	.0163	<.0000	5.471
#3	<.0000	<.0000	.0024	.0026	.0146	<.0000	5.497
#4	<.0000	<.0000	.0264	.0041	.0163	<.0000	5.458

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	.0007	<.0000	.0139	<.0000	1.137
SDev	.0013	.0009	.0027	.0018	.0048	.5691	.017
%RSD	121.0	44.28	406.8	76.88	34.68	58.08	1.501

#1	<.0000	<.0000	.0019	<.0000	.0131	<.0000	1.150
#2	<.0000	<.0000	<.0000	<.0000	.0100	<.0000	1.150
#3	<.0000	<.0000	<.0000	<.0000	.0116	<.0000	1.131
#4	.0006	<.0000	.0039	<.0000	.0209	<.0000	1.115

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0260	.0060	3.735	<.0000	.0000	<.0000	<.0000
SDev	.0004	.0046	.057	.0043	.0210	.0257	.0174
%RSD	1.486	75.72	1.535	42.31	237000.	108.3	33.97

#1	.0262	.0010	3.705	<.0000	<.0000	<.0000	<.0000
#2	.0262	.0099	3.668	<.0000	.0160	<.0000	<.0000
#3	.0262	.0033	3.784	<.0000	<.0000	.0043	<.0000
#4	.0254	.0099	3.781	<.0000	.0196	<.0000	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.6694	.0323	<.0000	.0024
SDev	.0181	.0694	.0016	.0010
%RSD	2.706	214.9	57.14	40.49

#1	.6816	.0454	<.0000	.0020
#2	.6767	<.0000	<.0000	.0032
#3	.6424	.0349	<.0000	.0012
#4	.6768	.1085	<.0000	.0032

Analysis Report

09/27/01 11:55:42 AM

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Method: IECW Sample Name: 23471spk

Operator: it

Run Time: 09/27/01 11:53:58

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	.0011	.2439	.2641	.2599	.2623	.0484	5.373
SDev	.0014	.0109	.0299	.0032	.0008	.0001	.020
%RSD	127.2	4.461	11.32	1.247	.3201	.2343	.3709

#1	.0022	.2469	.2747	.2640	.2636	.0485	5.393
#2	.0022	.2576	.2888	.2610	.2619	.0482	5.346
#3	.0002	.2390	.2206	.2573	.2619	.0485	5.373
#4	<.0000	.2323	.2723	.2573	.2619	.0484	5.381

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.0996	.0939	.2501	.2780	.2705	<.0000	1.115
SDev	.0022	.0009	.0012	.0014	.0044	.4987	.017
%RSD	2.182	.9700	.4967	.4975	1.642	30.25	1.523

#1	.1003	.0944	.2519	.2796	.2732	<.0000	1.125
#2	.1008	.0950	.2499	.2775	.2716	<.0000	1.112
#3	.1008	.0929	.2499	.2764	.2639	<.0000	1.093
#4	.0963	.0935	.2489	.2786	.2732	<.0000	1.131

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.2738	.0945	3.702	.2428	.2230	.1625	.1840
SDev	.0016	.0064	.027	.0191	.0222	.0348	.0614
%RSD	.5879	6.742	.7289	7.882	9.946	21.40	33.38

#1	.2742	.0940	3.674	.2272	.2470	.1926	.1488
#2	.2734	.0873	3.687	.2480	.2221	.1323	.1722
#3	.2757	.1028	3.711	.2283	.1936	.1926	.2739
#4	.2719	.0940	3.735	.2677	.2292	.1324	.1410

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.9978	.2996	.0926	.2524
SDev	.0181	.0609	.0013	.0010
%RSD	1.817	20.32	1.406	.3884

#1	.9904	.2970	.0932	.2523
#2	1.025	.2865	.0941	.2511
#3	.9905	.2340	.0915	.2535
#4	.9855	.3810	.0915	.2527

Analysis Report

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Method: IECW Sample Name: 23472

Operator: it

Run Time: 09/27/01 11:57:44

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0448	.0024	.0121	<.0000	5.498
SDev	.0032	.0284	.0391	.0021	.0010	.0001	.021
%RSD	39.53	49.07	87.13	88.94	8.022	54.71	.3808

#1	<.0000	<.0000	.1005	.0022	.0129	<.0000	5.492
#2	<.0000	<.0000	.0298	.0022	.0112	<.0000	5.500
#3	<.0000	<.0000	.0392	<.0000	.0112	<.0000	5.475
#4	<.0000	<.0000	.0099	.0052	.0129	<.0000	5.525

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	<.0000	.0135	<.0000	1.072
SDev	.0026	.0031	.0018	.0026	.0019	.9408	.034
%RSD	132.6	56.08	34.68	42.31	14.32	48.39	3.182

#1	<.0000	<.0000	<.0000	<.0000	.0131	<.0000	1.083
#2	<.0000	<.0000	<.0000	<.0000	.0131	<.0000	1.045
#3	<.0000	<.0000	<.0000	<.0000	.0116	<.0000	1.045
#4	.0015	<.0000	<.0000	<.0000	.0162	<.0000	1.115

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0217	<.0000	3.633	<.0000	<.0000	<.0000	<.0000
SDev	.0010	.0040	.042	.0078	.0384	.0258	.0400
%RSD	4.471	120.0	1.149	167.6	206.1	99.89	78.20

#1	.0231	.0011	3.678	<.0000	<.0000	<.0000	<.0000
#2	.0208	<.0000	3.632	<.0000	<.0000	<.0000	<.0000
#3	.0215	<.0000	3.577	<.0000	<.0000	<.0000	<.0000
#4	.0215	<.0000	3.644	.0063	.0302	<.0000	.0015

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.6119	.0245	<.0000	.0006
SDev	.0073	.0819	.0031	.0008
%RSD	1.192	333.8	52.76	122.5

#1	.6180	<.0000	<.0000	.0012
#2	.6083	<.0000	<.0000	.0004
#3	.6034	.0982	<.0000	<.0000
#4	.6180	.0875	<.0000	.0012

Analysis Report

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Method: IECW Sample Name: 23473

Operator: it

Run Time: 09/27/01 12:02:39

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.1018	.0097	.0247	<.0000	21.44
SDev	.0016	.0255	.0313	.0020	.0000	.0000	.06
%RSD	16.56	46.15	30.79	20.33	.0232	22.22	.2798

#1	<.0000	<.0000	.0964	.0106	.0247	<.0000	21.43
#2	<.0000	<.0000	.1382	.0087	.0247	<.0000	21.52
#3	<.0000	<.0000	.0627	.0121	.0247	<.0000	21.43
#4	<.0000	<.0000	.1098	.0076	.0247	<.0000	21.38

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	<.0000	.0579	<.0000	7.077
SDev	.0035	.0007	.0020	.0010	.0022	.3835	.010
%RSD	181.1	13.61	58.23	16.61	3.774	66.64	.1409

#1	<.0000	<.0000	<.0000	<.0000	.0595	<.0000	7.082
#2	<.0000	<.0000	<.0000	<.0000	.0595	<.0000	7.085
#3	.0021	<.0000	<.0000	<.0000	.0548	<.0000	7.079
#4	<.0000	<.0000	<.0000	<.0000	.0580	<.0000	7.063

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0972	<.0000	27.56	<.0000	<.0000	<.0000	<.0000
SDev	.0008	.0049	.06	.0033	.0155	.0129	.0646
%RSD	.7949	499.3	.2255	61.30	69.63	110.4	585.2

#1	.0976	.0007	27.49	<.0000	<.0000	<.0000	<.0000
#2	.0976	.0051	27.62	<.0000	<.0000	<.0000	.0535
#3	.0961	<.0000	27.61	<.0000	<.0000	<.0000	.0299
#4	.0976	<.0000	27.54	<.0000	<.0000	<.0000	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	2.451	.0122	<.0000	<.0000
SDev	.014	.0532	.0011	.0007
%RSD	.5738	434.4	17.64	49.42

#1	2.469	<.0000	<.0000	<.0000
#2	2.450	.0254	<.0000	<.0000
#3	2.450	<.0000	<.0000	<.0000
#4	2.435	.0780	<.0000	<.0000

Analysis Report

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page 1

Method: IECW Sample Name: 23497

Operator: it

Run Time: 09/27/01 12:07:38

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avg	<.0000	<.0000	<.0000	.0016	.0138	<.0000	5.494
SD	.0034	.0277	.0368	.0002	.0010	.0001	.013
%RSD	32.20	40.05	4214.	12.48	7.050	32.66	.2379

#1	<.0000	<.0000	.0375	.0015	.0146	<.0000	5.483
#2	<.0000	<.0000	<.0000	.0015	.0129	<.0000	5.482
#3	<.0000	<.0000	<.0000	.0018	.0129	<.0000	5.500
#4	<.0000	<.0000	.0215	.0018	.0146	<.0000	5.509

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avg	<.0000	<.0000	<.0000	<.0000	.0143	<.0000	1.102
SD	.0010	.0030	.0025	.0031	.0043	.5725	.041
%RSD	38.44	31.75	43.33	45.06	29.80	26.87	3.697

#1	<.0000	<.0000	<.0000	<.0000	.0116	<.0000	1.080
#2	<.0000	<.0000	<.0000	<.0000	.0100	<.0000	1.080
#3	<.0000	<.0000	<.0000	<.0000	.0193	<.0000	1.086
#4	<.0000	<.0000	<.0000	<.0000	.0162	<.0000	1.163

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avg	.0196	<.0000	7.480	<.0000	<.0000	<.0000	<.0000
SD	.0010	.0038	.045	.0066	.0505	.0179	.0390
%RSD	5.085	85.75	.5986	269.3	103.5	34.71	164.0

#1	.0208	<.0000	7.483	<.0000	<.0000	<.0000	<.0000
#2	.0184	<.0000	7.505	.0041	<.0000	<.0000	<.0000
#3	.0192	<.0000	7.416	.0008	<.0000	<.0000	<.0000
#4	.0200	<.0000	7.517	<.0000	.0196	<.0000	.0171

Elem	Si2881	Tl1908	V_2924	Zn2138
Avg	.9170	.0350	<.0000	<.0000
SD	.0126	.0493	.0022	.0007
%RSD	1.373	140.9	31.98	53.48

#1	.9121	.0140	<.0000	<.0000
#2	.9023	.0035	<.0000	<.0000
#3	.9219	.1086	<.0000	<.0000
#4	.9316	.0138	<.0000	<.0000

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Method: IECW Sample Name: 23498

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Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0030	.0017	.0121	<.0000	5.482
SDev	.0020	.0101	.0415	.0026	.0010	.0000	.011
%RSD	12.97	10.60	1361.	154.3	8.039	18.18	.1965

#1	<.0000	<.0000	<.0000	.0052	.0112	<.0000	5.467
#2	<.0000	<.0000	.0445	<.0000	.0112	<.0000	5.485
#3	<.0000	<.0000	<.0000	<.0000	.0129	<.0000	5.484
#4	<.0000	<.0000	.0300	.0018	.0129	<.0000	5.492

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	<.0000	.0139	<.0000	1.055
SDev	.0011	.0015	.0040	.0006	.0027	.5576	.021
%RSD	26.83	14.95	35.16	5.996	19.23	15.79	1.993

#1	<.0000	<.0000	<.0000	<.0000	.0116	<.0000	1.048
#2	<.0000	<.0000	<.0000	<.0000	.0131	<.0000	1.073
#3	<.0000	<.0000	<.0000	<.0000	.0132	<.0000	1.029
#4	<.0000	<.0000	<.0000	<.0000	.0178	<.0000	1.070

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0165	<.0000	6.931	<.0000	<.0000	<.0000	<.0000
SDev	.0010	.0082	.030	.0081	.0202	.0355	.0500
%RSD	6.046	113.2	.4381	65.81	25.53	45.86	70.90

#1	.0177	<.0000	6.905	<.0000	<.0000	<.0000	<.0000
#2	.0154	.0033	6.972	<.0000	<.0000	<.0000	<.0000
#3	.0169	<.0000	6.911	<.0000	<.0000	<.0000	<.0000
#4	.0161	<.0000	6.936	<.0000	<.0000	<.0000	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.8693	.0088	<.0000	<.0000
SDev	.0202	.0695	.0022	.0006
%RSD	2.320	787.5	19.04	26.37

#1	.8436	.0246	<.0000	<.0000
#2	.8680	.0036	<.0000	<.0000
#3	.8926	.0877	<.0000	<.0000
#4	.8729	<.0000	<.0000	<.0000

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Method: IECW Sample Name: 23499

Operator: it

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Comment:

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Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0044	.0010	.0129	<.0000	5.569
SDev	.0053	.0184	.0309	.0019	.0000	.0001	.009
%RSD	34.02	18.73	709.2	187.3	.0090	32.99	.1703

#1	<.0000	<.0000	<.0000	.0015	.0129	<.0000	5.565
#2	<.0000	<.0000	.0366	<.0000	.0129	<.0000	5.577
#3	<.0000	<.0000	.0186	.0029	.0129	<.0000	5.577
#4	<.0000	<.0000	<.0000	.0011	.0129	<.0000	5.557

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	<.0000	.0216	<.0000	1.051
SDev	.0009	.0019	.0014	.0024	.0037	1.360	.005
%RSD	42.37	18.21	11.08	77.12	17.01	37.20	.4315

#1	<.0000	<.0000	<.0000	<.0000	.0240	<.0000	1.057
#2	<.0000	<.0000	<.0000	<.0000	.0240	<.0000	1.051
#3	<.0000	<.0000	<.0000	<.0000	.0224	<.0000	1.048
#4	<.0000	<.0000	<.0000	<.0000	.0162	<.0000	1.048

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0159	<.0000	6.898	<.0000	<.0000	<.0000	<.0000
SDev	.0019	.0026	.073	.0051	.0214	.0211	.0876
%RSD	12.12	25.72	1.055	50.76	29.74	32.75	278.4

#1	.0184	<.0000	6.790	<.0000	<.0000	<.0000	.0017
#2	.0154	<.0000	6.936	<.0000	<.0000	<.0000	<.0000
#3	.0161	<.0000	6.942	<.0000	<.0000	<.0000	.0174
#4	.0138	<.0000	6.926	<.0000	<.0000	<.0000	.0175

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.8705	<.0000	<.0000	.0009
SDev	.0202	.0934	.0030	.0011
%RSD	2.321	172.3	22.68	124.1

#1	.8925	<.0000	<.0000	.0016
#2	.8828	<.0000	<.0000	.0016
#3	.8534	<.0000	<.0000	.0012
#4	.8534	.0667	<.0000	<.0000

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Method: IECW Sample Name: 23500

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Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0275	.0011	.0129	<.0000	5.746
SDev	.0032	.0225	.0174	.0013	.0000	.0001	.034
%RSD	20.14	25.02	63.13	121.7	.0299	25.53	.5906

#1	<.0000	<.0000	.0058	<.0000	.0129	<.0000	5.697
#2	<.0000	<.0000	.0236	.0003	.0129	<.0000	5.772
#3	<.0000	<.0000	.0470	.0022	.0129	<.0000	5.765
#4	<.0000	<.0000	.0335	.0022	.0129	<.0000	5.749

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	<.0000	.0147	<.0000	1.083
SDev	.0023	.0032	.0034	.0024	.0025	.4666	.019
%RSD	74.59	27.74	33.44	160.8	17.25	13.16	1.710

#1	<.0000	<.0000	<.0000	<.0000	.0147	<.0000	1.061
#2	<.0000	<.0000	<.0000	<.0000	.0116	<.0000	1.086
#3	<.0000	<.0000	<.0000	<.0000	.0178	<.0000	1.080
#4	<.0000	<.0000	<.0000	.0020	.0147	<.0000	1.105

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0136	<.0000	7.403	<.0000	<.0000	<.0000	<.0000
SDev	.0010	.0046	.096	.0047	.0143	.0217	.0302
%RSD	7.134	54.80	1.300	27.16	22.09	31.57	42.77

#1	.0123	<.0000	7.322	<.0000	<.0000	<.0000	<.0000
#2	.0146	<.0000	7.331	<.0000	<.0000	<.0000	<.0000
#3	.0138	<.0000	7.526	<.0000	<.0000	<.0000	<.0000
#4	.0138	<.0000	7.434	<.0000	<.0000	<.0000	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.9023	<.0000	<.0000	.0015
SDev	.0160	.0648	.0029	.0007
%RSD	1.772	231.1	26.84	44.93

#1	.8827	<.0000	<.0000	.0024
#2	.9219	<.0000	<.0000	.0008
#3	.9023	<.0000	<.0000	.0012
#4	.9023	.0455	<.0000	.0016

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Method: IECW Sample Name: 23501

Operator: it

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Mode: CONC Corr. Factor: 1



Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avg	<.0000	<.0000	.0095	.0011	.0125	<.0000	5.470
SDev	.0007	.0037	.0264	.0007	.0008	.0000	.016
%RSD	4.968	3.822	278.7	63.00	6.721	15.38	.2890

#1	<.0000	<.0000	<.0000	.0018	.0129	<.0000	5.492
#2	<.0000	<.0000	.0470	.0015	.0112	<.0000	5.458
#3	<.0000	<.0000	<.0000	.0003	.0129	<.0000	5.470
#4	<.0000	<.0000	.0082	.0007	.0129	<.0000	5.459

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avg	<.0000	<.0000	<.0000	.0052	.0217235	<.0000	1.077
SDev	.0008	.0014	.0006	.0015	.0037	.3767	.015
%RSD	33.86	14.82	5.987	29.00	17.04	11.82	1.419

#1	<.0000	<.0000	<.0000	.0063	.0162	<.0000	1.086
#2	<.0000	<.0000	<.0000	.0063	.02407	<.0000	1.054
#3	<.0000	<.0000	<.0000	.0031	.02247	<.0000	1.086
#4	<.0000	<.0000	<.0000	.0052	.02407	<.0000	1.080

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avg	.0244	<.0000	7.403	<.0000	<.0000	<.0000	<.0000
SDev	.0015	.0031	.031	.0040	.0293	.0325	.0352
%RSD	5.983	40.29	.4211	37.93	61.12	56.03	54.47

#1	.0254	<.0000	7.435	<.0000	<.0000	<.0000	<.0000
#2	.0223	<.0000	7.422	<.0000	<.0000	<.0000	<.0000
#3	.0254	<.0000	7.368	<.0000	<.0000	<.0000	<.0000
#4	.0246	<.0000	7.386	<.0000	<.0000	<.0000	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avg	.9048	<.0000	<.0000	.0010
SDev	.0094	.0897	.0017	.0010
%RSD	1.039	353.6	15.88	98.25

#1	.9023	<.0000	<.0000	.0012
#2	.9122	<.0000	<.0000	.0020
#3	.8925	.0981	<.0000	.0012
#4	.9121	<.0000	<.0000	<.0000

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Method: IECW Sample Name: 23502

Operator: it

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Comment:

Mode: CONC Corr. Factor: 1



Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avg	<.0000	<.0000	.0479	.0029	.0133	<.0000	5.634
SDev	.0014	.0208	.0221	.0012	.0008	.0000	.024
%RSD	14.33	30.50	46.22	42.93	6.308	22.22	.4227

#1	<.0000	<.0000	.0585	.0026	.0129	<.0000	5.598
#2	<.0000	<.0000	.0671	.0029	.0146	<.0000	5.646
#3	<.0000	<.0000	.0493	.0015	.0129	<.0000	5.645
#4	<.0000	<.0000	.0165	.0044	.0129	<.0000	5.647

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avg	<.0000	<.0000	<.0000	.0007	.0127	<.0000	1.109
SDev	.0011	.0018	.0014	.0022	.0026	.5143	.020
%RSD	76.22	21.07	20.75	330.6	20.74	19.80	1.799

#1	<.0000	<.0000	<.0000	<.0000	.0116	<.0000	1.080
#2	<.0000	<.0000	<.0000	.0031	.0131	<.0000	1.112
#3	.0002	<.0000	<.0000	.0009	.0100	<.0000	1.118
#4	<.0000	<.0000	<.0000	.0009	.0162	<.0000	1.125

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avg	.0138	<.0000	7.250	<.0000	<.0000	<.0000	<.0000
SDev	.0000	.0021	.058	.0059	.0200	.0177	.0424
%RSD	.0115	34.48	.7956	64.88	36.87	22.22	93.58

#1	.0138	<.0000	7.173	<.0000	<.0000	<.0000	<.0000
#2	.0138	<.0000	7.282	<.0000	<.0000	<.0000	<.0000
#3	.0138	<.0000	7.304	<.0000	<.0000	<.0000	<.0000
#4	.0138	<.0000	7.240	<.0000	<.0000	<.0000	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avg	.9059	<.0000	<.0000	<.0000
SDev	.0101	.1146	.0008	.0007
%RSD	1.113	318.7	10.27	959.6

#1	.8974	<.0000	<.0000	<.0000
#2	.9121	<.0000	<.0000	.0000
#3	.8973	.1296	<.0000	.0004
#4	.9169	<.0000	<.0000	.0004

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Method: IECW Sample Name: 23503

Operator: it

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Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0018	.0022	.0108	<.0000	5.508
SDev	.0024	.0060	.0396	.0003	.0016	.0001	.022
%RSD	17.25	6.039	2193.	13.91	14.89	23.33	.4014

#1	<.0000	<.0000	<.0000	.0022	.0112	<.0000	5.537
#2	<.0000	<.0000	<.0000	.0026	.0095	<.0000	5.509
#3	<.0000	<.0000	.0611	.0018	.0129	<.0000	5.499
#4	<.0000	<.0000	<.0000	.0022	.0096	<.0000	5.485

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	<.0000	.0128	<.0000	1.043
SDev	.0015	.0021	.0019	.0006	.0019	.3422	.021
%RSD	37.45	23.07	20.43	10.26	15.23	10.58	2.033

#1	<.0000	<.0000	<.0000	<.0000	.0131	<.0000	1.067
#2	<.0000	<.0000	<.0000	<.0000	.0101	<.0000	1.016
#3	<.0000	<.0000	<.0000	<.0000	.0147	<.0000	1.041
#4	<.0000	<.0000	<.0000	<.0000	.0131	<.0000	1.048

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0154	<.0000	6.885	<.0000	<.0000	<.0000	<.0000
SDev	.0015	.0033	.033	.0068	.0120	.0306	.0735
%RSD	10.06	35.28	.4820	55.36	18.21	41.92	65.84

#1	.0146	<.0000	6.875	<.0000	<.0000	<.0000	<.0000
#2	.0146	<.0000	6.844	<.0000	<.0000	<.0000	<.0000
#3	.0177	<.0000	6.920	<.0000	<.0000	<.0000	<.0000
#4	.0146	<.0000	6.902	<.0000	<.0000	<.0000	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.8583	<.0000	<.0000	<.0000
SDev	.0056	.0276	.0009	.0005
%RSD	.6566	44.47	7.660	37.63

#1	.8631	<.0000	<.0000	<.0000
#2	.8534	<.0000	<.0000	<.0000
#3	.8632	<.0000	<.0000	<.0000
#4	.8534	<.0000	<.0000	<.0000

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Method: IECW Sample Name: ipc
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Operator: it



Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	.5003	.9893	.0308	.9834	.9749	.9644	.9925
SDev	.0011	.0146	.0077	.0059	.0071	.0040	.0069
%RSD	.2299	1.477	24.92	.5954	.7251	.4184	.6926

#1	.5007	1.006	.0373	.9874	.9723	.9656	.9987
#2	.5013	.9890	.0363	.9889	.9841	.9692	.9973
#3	.5007	.9705	.0288	.9811	.9757	.9630	.9902
#4	.4987	.9916	.0208	.9762	.9673	.9597	.9838

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.9831	.9713	.9887	.9520	.9717	<.0000	.9500
SDev	.0079	.0036	.0053	.0056	.0032	.5448	.0177
%RSD	.7993	.3742	.5394	.5919	.3311	43.70	1.865

#1	.9825	.9716	.9930	.9493	.9756	<.0000	.9763
#2	.9928	.9753	.9935	.9601	.9725	<.0000	.9413
#3	.9834	.9665	.9851	.9515	.9679	<.0000	.9381
#4	.9736	.9720	.9831	.9472	.9710	<.0000	.9445

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.9715	.9514	1.028	.9678	.9329	.9237	<.0000
SDev	.0064	.0075	.032	.0061	.0278	.0360	.0419
%RSD	.6543	.7853	3.145	.6279	2.981	3.898	99.80

#1	.9711	.9425	.9860	.9647	.9665	.8851	<.0000
#2	.9788	.9603	1.031	.9768	.8992	.9280	<.0000
#3	.9727	.9492	1.065	.9637	.9276	.9109	.0106
#4	.9634	.9536	1.031	.9658	.9382	.9708	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	1.019	.9923	.9842	.9910
SDev	.016	.0914	.0037	.0062
%RSD	1.611	9.207	.3740	.6294

#1	1.039	1.003	.9851	.9973
#2	1.024	.9193	.9851	.9950
#3	1.015	1.118	.9877	.9875
#4	.9998	.9297	.9790	.9840

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Method: IECW Sample Name: cb

Operator: it

Run Time: 09/27/01 12:34:09

Comment:

Mode: CONC Corr. Factor: 1



Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	<.0000	.0003	<.0000	<.0000	<.0000
SDev	.0013	.0070	.0363	.0008	.0000	.0001	.0030
%RSD	22.53	40.94	2655.	282.8	.0703	85.39	50.02

#1	<.0000	<.0000	.0174	.0014	<.0000	.0000	<.0000
#2	<.0000	<.0000	.0405	<.0000	<.0000	<.0000	<.0000
#3	<.0000	<.0000	<.0000	.0003	<.0000	<.0000	<.0000
#4	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	<.0000	.0000	<.0000	<.0000
SDev	.0006	.0007	.0024	.0005	.0030	.5097	.0131
%RSD	253.6	29.05	93.71	14.30	25520.	40.89	37.48

#1	.0003	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000
#2	<.0000	<.0000	<.0000	<.0000	.0023	<.0000	<.0000
#3	<.0000	<.0000	.0004	<.0000	.0023	<.0000	<.0000
#4	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	<.0000	<.0000	<.0000	.0011	<.0000	.0108	<.0000
SDev	.0004	.0031	.0218	.0090	.0296	.0316	.0656
%RSD	116.4	29.83	42.92	815.6	151.8	294.2	146.7

#1	.0000	<.0000	<.0000	.0112	<.0000	<.0000	<.0000
#2	.0000	<.0000	<.0000	<.0000	<.0000	.0322	.0312
#3	<.0000	<.0000	<.0000	.0057	.0106	.0407	<.0000
#4	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	<.0000	.0366	<.0000	<.0000
SDev	.0105	.0390	.0022	.0013
%RSD	72.25	106.7	83.35	120.5

#1	<.0000	.0366	<.0000	<.0000
#2	<.0000	.0262	<.0000	.0002
#3	<.0000	<.0000	<.0000	<.0000
#4	<.0000	.0887	<.0000	<.0000