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Acculabs, Inc.
4663 Table Mountain Drive - Golden, CO 80403-1650 - (303) 277-9514

Date: 03/03/99 Federal ID#: 86-0807126 ISS01
Page 1

* * * **INVOICE** * * *

Invoice Number: 029483L

To: MS Mary Goldade
ISSI
999 18th Street Suite 1180
Denver CO 80202

Acculabs Job Number: 027907 Acculabs Project Number: ISS001B
Date Received: 01/14/99 Client Project Number: EPA-0098 I-70
P.O. Number: NONE
Chain of Custody Number: NONE Matrix: Soil

Analyte	Quantity	Price	Totals
M Sample Prep	35	15.00	525.00
Arsenic, Total	35	15.00	525.00
Cadmium, Total	35	15.00	525.00
Lead, Total	35	15.00	525.00
Zinc, Total	35	15.00	525.00

Total $: 2,625.00

Terms: Net 30 days

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Acculabs, Inc.
4663 Table Mountain Drive - Golden, CO 80403-1650 - (303) 277-9514

Date: 03/03/99 Federal ID#: 86-0807126 ISS01
Page 1

*** * * INVOICE - REMITTANCE COPY * * ***

Invoice Number: 029483L

To: MS Mary Goldade
ISSI
999 18th Street Suite 1180
Denver CO 80202

Acculabs Job Number: 027907 Acculabs Project Number: ISS001B
Date Received: 01/14/99 Client Project Number: EPA-0098 I-70
P.O. Number: NONE
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Analyte	Quantity	Price	Totals
M Sample Prep	35	15.00	525.00
Arsenic, Total	35	15.00	525.00
Cadmium, Total	35	15.00	525.00
Lead, Total	35	15.00	525.00
Zinc, Total	35	15.00	525.00

Total $: 2,625.00

Terms: Net 30 days

PLEASE RETURN THIS COPY TO ACCULABS INC WITH PAYMENT

Acculabs Inc.
Golden 4663 Table Mountain Drive, Golden CO 80403 • 303-277-9514 • Fax 277-9512

Date: 03/03/99

CASE NARRATIVE

MS Mary Goldade
ISSI
999 18th Street Suite 1180
Denver, CO 80202

Lab Job Number: 027907 ISS001
Date Samples Received: 01/14/99

The following samples were received at the laboratory:

99-A816	Soil
99-A817	Soil
99-A818	Soil
99-A819	Soil
99-A820	Soil
99-A821	Soil
99-A822	Soil
99-A823	Soil
99-A824	Soil
99-A825	Soil
99-A826	Soil
99-A827	Soil
99-A828	Soil
99-A829	Soil
99-A830	Soil
99-A831	Soil
99-A832	Soil
99-A833	Soil
99-A834	Soil
99-A835	Soil
99-A836	Soil
99-A837	Soil
99-A838	Soil
99-A839	Soil
99-A840	Soil
99-A841	Soil
99-A842	Soil
99-A843	Soil
99-A844	Soil
99-A845	Soil
99-A846	Soil
99-A847	Soil
99-A848	Soil
99-A849	Soil
99-A850	Soil

Acculabs Inc.

Date: 03/03/99
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CASE NARRATIVE

MS Mary Goldade
ISSI

Lab Job Number: 027907 ISS001
Date Samples Received: 01/14/99

The samples were received within EPA recommended holding times and in good condition. The radioactivity screen was performed at sample login, if required, and all results were within acceptable limits. If required, a pH screen confirmed that all samples were preserved to acceptable pH levels. Samples were analyzed within holding times as prescribed by the analytical method. Exceptions to these statements, additional information and any analytical anomalies are noted below.

We received these samples on 1/14/99. Samples were returned to client on 1/15/99 for more sample volume. We re-received samples on 1/27/99.

The temperature of the samples upon arrival was 21 degrees C.

Sections A, B and C of this report contain a total of 28 pages.

Trudy L. Scott
Laboratory Manager

Date: 03/03/99
Page 1 - B

Acculabs Inc.

REPORT OF ANALYSIS

MS Mary Goldade
ISSI
999 18th Street Suite 1180
Denver, CO 80202

Lab Job Number: 027907 ISS001
Date Samples Received: 01/14/99

Acculabs Designation:	99-A816
Client Designation:	ND-98-703
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	340
Cadmium, Total (mg/kg)	11
Lead, Total (mg/kg)	1300
Zinc, Total (mg/kg)	360

Acculabs Designation:	99-A817
Client Designation:	ND-98-887
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	280
Cadmium, Total (mg/kg)	7.9
Lead, Total (mg/kg)	330
Zinc, Total (mg/kg)	240

Acculabs Designation:	99-A818
Client Designation:	ND-98-784
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	3400
Cadmium, Total (mg/kg)	10
Lead, Total (mg/kg)	2000
Zinc, Total (mg/kg)	480

Acculabs Inc.

REPORT OF ANALYSIS

MS Mary Goldade
ISSI

Lab Job Number: 027907 ISS001
Date Samples Received: 01/14/99

Acculabs Designation:	99-A819
Client Designation:	ND-98-459
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	370
Cadmium, Total (mg/kg)	5.8
Lead, Total (mg/kg)	530
Zinc, Total (mg/kg)	210

Acculabs Designation:	99-A820
Client Designation:	ND-98-1251
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	380
Cadmium, Total (mg/kg)	6.4
Lead, Total (mg/kg)	780
Zinc, Total (mg/kg)	540

Acculabs Designation:	99-A821
Client Designation:	ND-98-1226
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	89
Cadmium, Total (mg/kg)	7.6
Lead, Total (mg/kg)	750
Zinc, Total (mg/kg)	300

Acculabs Inc.

Date: 03/03/99
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REPORT OF ANALYSIS

MS Mary Goldade
ISSI

Lab Job Number: 027907 ISS001
Date Samples Received: 01/14/99

Acculabs Designation:	99-A822
Client Designation:	ND-98-987
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	160
Cadmium, Total (mg/kg)	3.2
Lead, Total (mg/kg)	170
Zinc, Total (mg/kg)	150

Acculabs Designation:	99-A823
Client Designation:	ND-98-641
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	2300
Cadmium, Total (mg/kg)	8.0
Lead, Total (mg/kg)	960
Zinc, Total (mg/kg)	440

Acculabs Designation:	99-A824
Client Designation:	ND-98-473
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	180
Cadmium, Total (mg/kg)	4.8
Lead, Total (mg/kg)	140
Zinc, Total (mg/kg)	180

Acculabs Inc.

REPORT OF ANALYSIS

MS Mary Goldade
ISSI

Lab Job Number: 027907 ISS001
Date Samples Received: 01/14/99

Acculabs Designation:	99-A825
Client Designation:	ND-98-782
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	7600
Cadmium, Total (mg/kg)	10
Lead, Total (mg/kg)	1500
Zinc, Total (mg/kg)	270

Acculabs Designation:	99-A826
Client Designation:	ND-98-478
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	240
Cadmium, Total (mg/kg)	6.0
Lead, Total (mg/kg)	230
Zinc, Total (mg/kg)	180

Acculabs Designation:	99-A827
Client Designation:	ND-98-991
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	66
Cadmium, Total (mg/kg)	2.4
Lead, Total (mg/kg)	95
Zinc, Total (mg/kg)	160

Acculabs Inc.

Date: 03/03/99
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REPORT OF ANALYSIS

MS Mary Goldade
ISSI

Lab Job Number: 027907 ISS001
Date Samples Received: 01/14/99

Acculabs Designation:	99-A828
Client Designation:	ND-98-486
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	230
Cadmium, Total (mg/kg)	5.4
Lead, Total (mg/kg)	360
Zinc, Total (mg/kg)	220

Acculabs Designation:	99-A829
Client Designation:	ND-98-960
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	370
Cadmium, Total (mg/kg)	3.8
Lead, Total (mg/kg)	240
Zinc, Total (mg/kg)	160

Acculabs Designation:	99-A830
Client Designation:	ND-98-933
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	180
Cadmium, Total (mg/kg)	5.1
Lead, Total (mg/kg)	380
Zinc, Total (mg/kg)	260

Acculabs Inc.

REPORT OF ANALYSIS

MS Mary Goldade
ISSI

Lab Job Number: 027907 ISS001
Date Samples Received: 01/14/99

Acculabs Designation:	99-A831
Client Designation:	ND-98-1249
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	140
Cadmium, Total (mg/kg)	4.1
Lead, Total (mg/kg)	580
Zinc, Total (mg/kg)	540

Acculabs Designation:	99-A832
Client Designation:	ND-98-888
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	350
Cadmium, Total (mg/kg)	7.6
Lead, Total (mg/kg)	290
Zinc, Total (mg/kg)	220

Acculabs Designation:	99-A833
Client Designation:	ND-98-793
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	1100
Cadmium, Total (mg/kg)	11
Lead, Total (mg/kg)	1200
Zinc, Total (mg/kg)	280

Acculabs Inc.

REPORT OF ANALYSIS

MS Mary Goldade
ISSI

Lab Job Number: 027907 ISS001
Date Samples Received: 01/14/99

Acculabs Designation:	99-A834
Client Designation:	ND-98-1304
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	4600
Cadmium, Total (mg/kg)	15
Lead, Total (mg/kg)	2900
Zinc, Total (mg/kg)	760

Acculabs Designation:	99-A835
Client Designation:	ND-98-977
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	74
Cadmium, Total (mg/kg)	1.7
Lead, Total (mg/kg)	98
Zinc, Total (mg/kg)	140

Acculabs Designation:	99-A836
Client Designation:	ND-98-899
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	88
Cadmium, Total (mg/kg)	5.9
Lead, Total (mg/kg)	600
Zinc, Total (mg/kg)	170

Acculabs Inc.

Date: 03/03/99
Page 8 - B

REPORT OF ANALYSIS

MS Mary Goldade
ISSI

Lab Job Number: 027907 ISS001
Date Samples Received: 01/14/99

Acculabs Designation:	99-A837
Client Designation:	ND-98-943
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	28
Cadmium, Total (mg/kg)	2.4
Lead, Total (mg/kg)	100
Zinc, Total (mg/kg)	260

Acculabs Designation:	99-A838
Client Designation:	ND-98-461
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	170
Cadmium, Total (mg/kg)	5.8
Lead, Total (mg/kg)	870
Zinc, Total (mg/kg)	240

Acculabs Designation:	99-A839
Client Designation:	ND-98-1013
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	170
Cadmium, Total (mg/kg)	2.4
Lead, Total (mg/kg)	150
Zinc, Total (mg/kg)	140

Acculabs Inc.

REPORT OF ANALYSIS

MS Mary Goldade
ISSI

Lab Job Number: 027907 ISS001
Date Samples Received: 01/14/99

Acculabs Designation:	99-A840
Client Designation:	ND-98-752
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	350
Cadmium, Total (mg/kg)	7.6
Lead, Total (mg/kg)	390
Zinc, Total (mg/kg)	260

Acculabs Designation:	99-A841
Client Designation:	ND-98-1137
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	510
Cadmium, Total (mg/kg)	6.7
Lead, Total (mg/kg)	620
Zinc, Total (mg/kg)	400

Acculabs Designation:	99-A842
Client Designation:	ND-98-1725
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	200
Cadmium, Total (mg/kg)	4.5
Lead, Total (mg/kg)	360
Zinc, Total (mg/kg)	110

Acculabs Inc.

REPORT OF ANALYSIS

MS Mary Goldade
ISSI

Lab Job Number: 027907 ISS001
Date Samples Received: 01/14/99

Acculabs Designation:	99-A843
Client Designation:	ND-98-660
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	710
Cadmium, Total (mg/kg)	20
Lead, Total (mg/kg)	1000
Zinc, Total (mg/kg)	610

Acculabs Designation:	99-A844
Client Designation:	ND-98-1759
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	380
Cadmium, Total (mg/kg)	5.7
Lead, Total (mg/kg)	310
Zinc, Total (mg/kg)	320

Acculabs Designation:	99-A845
Client Designation:	ND-98-1784
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	3100
Cadmium, Total (mg/kg)	8.3
Lead, Total (mg/kg)	1100
Zinc, Total (mg/kg)	200

Acculabs Inc.

REPORT OF ANALYSIS

MS Mary Goldade
ISSI

Lab Job Number: 027907 ISS001
Date Samples Received: 01/14/99

Acculabs Designation:	99-A846
Client Designation:	ND-98-2995
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	67
Cadmium, Total (mg/kg)	310
Lead, Total (mg/kg)	3100
Zinc, Total (mg/kg)	15000

Acculabs Designation:	99-A847
Client Designation:	ND-98-2998
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	320
Cadmium, Total (mg/kg)	13
Lead, Total (mg/kg)	4600
Zinc, Total (mg/kg)	1900

Acculabs Designation:	99-A848
Client Designation:	ND-98-3101
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	70
Cadmium, Total (mg/kg)	26
Lead, Total (mg/kg)	770
Zinc, Total (mg/kg)	320

Acculabs Inc.

Date: 03/03/99
Page 12 - B

REPORT OF ANALYSIS

MS Mary Goldade
ISSI

Lab Job Number: 027907 ISS001
Date Samples Received: 01/14/99

Acculabs Designation:	99-A849
Client Designation:	ND-98-3125
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	15
Cadmium, Total (mg/kg)	2.5
Lead, Total (mg/kg)	120
Zinc, Total (mg/kg)	410

Acculabs Designation:	99-A850
Client Designation:	ND-98-3209
Sample Location:	
Location II:	
Date/Time Collected	01/13/99

General Chemistry (results in mg/L unless noted):

Arsenic, Total (mg/kg)	10
Cadmium, Total (mg/kg)	0.20
Lead, Total (mg/kg)	160
Zinc, Total (mg/kg)	120

NOTES:
All results reported on a dry weight basis.

Scheduled sample disposal/return date: April 2, 1999.

Trudy L. Scott
Laboratory Manager

Acculabs Inc.

QA/QC Report for Acculabs Job Number 027907

PARAMETER	DETECTION LIMIT	DATE OF ANALYSIS	TIME OF ANALYSIS	ANALYST	METHOD
Lab Sample Number: 99-A816					
Client Sample ID: ND-98-703					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/10/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	10:00	MG	6020
Cadmium, Total	0.01 mg/kg	2/25/99	10:00	MG	6020
Lead, Total	0.1 mg/kg	2/25/99	10:00	MG	6020
Zinc, Total	0.1 mg/kg	2/25/99	10:00	MG	6020
Lab Sample Number: 99-A817					
Client Sample ID: ND-98-887					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/10/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A818					
Client Sample ID: ND-98-784					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/10/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A819					
Client Sample ID: ND-98-459					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/10/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020

Acculabs Inc.

QA/QC Report for Acculabs Job Number 027907

PARAMETER	DETECTION LIMIT	DATE OF ANALYSIS	TIME OF ANALYSIS	ANALYST	METHOD
Lab Sample Number: 99-A819					
Client Sample ID: ND-98-459					
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A820					
Client Sample ID: ND-98-1251					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/10/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A821					
Client Sample ID: ND-98-1226					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/10/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A822					
Client Sample ID: ND-98-987					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/10/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020

Acculabs Inc.

QA/QC Report for Acculabs Job Number 027907

PARAMETER	DETECTION LIMIT	DATE OF ANALYSIS	TIME OF ANALYSIS	ANALYST	METHOD
Lab Sample Number: 99-A823					
Client Sample ID: ND-98-641					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/10/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A824					
Client Sample ID: ND-98-473					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/10/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A825					
Client Sample ID: ND-98-782					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/10/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A826					
Client Sample ID: ND-98-478					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/10/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020

Acculabs Inc.

QA/QC Report for Acculabs Job Number 027907

PARAMETER	DETECTION LIMIT	DATE OF ANALYSIS	TIME OF ANALYSIS	ANALYST	METHOD
Lab Sample Number: 99-A826					
Client Sample ID: ND-98-478					
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A827					
Client Sample ID: ND-98-991					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/10/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A828					
Client Sample ID: ND-98-486					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/18/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A829					
Client Sample ID: ND-98-960					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/18/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020

Acculabs Inc.

QA/QC Report for Acculabs Job Number 027907

PARAMETER	DETECTION LIMIT	DATE OF ANALYSIS	TIME OF ANALYSIS	ANALYST	METHOD
Lab Sample Number: 99-A830					
Client Sample ID: ND-98-933					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/18/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A831					
Client Sample ID: ND-98-1249					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/18/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A832					
Client Sample ID: ND-98-888					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/18/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A833					
Client Sample ID: ND-98-793					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/18/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	3/ 1/99	8:58	MM	6020
Cadmium, Total	0.01 mg/kg	3/ 1/99	8:58	MM	6020

Acculabs Inc.

QA/QC Report for Acculabs Job Number 027907

PARAMETER	DETECTION LIMIT	DATE OF ANALYSIS	TIME OF ANALYSIS	ANALYST	METHOD
Lab Sample Number: 99-A833					
Client Sample ID: ND-98-793					
Lead, Total	0.1 mg/kg	3/ 1/99	8:58	MM	6020
Zinc, Total	0.1 mg/kg	3/ 1/99	8:58	MM	6020
Lab Sample Number: 99-A834					
Client Sample ID: ND-98-1304					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/18/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A835					
Client Sample ID: ND-98-977					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/18/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A836					
Client Sample ID: ND-98-899					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/18/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020

Acculabs Inc.

QA/QC Report for Acculabs Job Number 027907

PARAMETER	DETECTION LIMIT	DATE OF ANALYSIS	TIME OF ANALYSIS	ANALYST	METHOD
Lab Sample Number: 99-A837					
Client Sample ID: ND-98-943					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/18/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A838					
Client Sample ID: ND-98-461					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/18/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A839					
Client Sample ID: ND-98-1013					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/18/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A840					
Client Sample ID: ND-98-752					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/18/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020

Acculabs Inc.

QA/QC Report for Acculabs Job Number 027907

PARAMETER	DETECTION LIMIT	DATE OF ANALYSIS	TIME OF ANALYSIS	ANALYST	METHOD
Lab Sample Number: 99-A840					
Client Sample ID: ND-98-752					
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A841					
Client Sample ID: ND-98-1137					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/18/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A842					
Client Sample ID: ND-98-1725					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/18/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A843					
Client Sample ID: ND-98-660					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/18/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020

Acculabs Inc.

QA/QC Report for Acculabs Job Number 027907

PARAMETER	DETECTION LIMIT	DATE OF ANALYSIS	TIME OF ANALYSIS	ANALYST	METHOD
Lab Sample Number: 99-A844					
Client Sample ID: ND-98-1759					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/18/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A845					
Client Sample ID: ND-98-1784					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/18/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A846					
Client Sample ID: ND-98-2995					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/18/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Cadmium, Total	0.01 mg/kg	2/25/99	18:24	MM	6020
Lead, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Zinc, Total	0.1 mg/kg	2/25/99	18:24	MM	6020
Lab Sample Number: 99-A847					
Client Sample ID: ND-98-2998					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/18/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	3/ 1/99	8:58	MM	6020
Cadmium, Total	0.01 mg/kg	3/ 1/99	8:58	MM	6020

Acculabs Inc.

QA/QC Report for Acculabs Job Number 027907

PARAMETER	DETECTION LIMIT	DATE OF ANALYSIS	TIME OF ANALYSIS	ANALYST	METHOD
Lab Sample Number: 99-A847					
Client Sample ID: ND-98-2998					
Lead, Total	0.1 mg/kg	3/ 1/99	8:58	MM	6020
Zinc, Total	0.1 mg/kg	3/ 3/99	13:46	MM	6020
Lab Sample Number: 99-A848					
Client Sample ID: ND-98-3101					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/18/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	3/ 1/99	8:58	MM	6020
Cadmium, Total	0.01 mg/kg	3/ 1/99	8:58	MM	6020
Lead, Total	0.1 mg/kg	3/ 1/99	8:58	MM	6020
Zinc, Total	0.1 mg/kg	3/ 3/99	13:49	MM	6020
Lab Sample Number: 99-A849					
Client Sample ID: ND-98-3125					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/18/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	3/ 1/99	8:58	MM	6020
Cadmium, Total	0.01 mg/kg	3/ 1/99	8:58	MM	6020
Lead, Total	0.1 mg/kg	3/ 1/99	8:58	MM	6020
Zinc, Total	0.1 mg/kg	3/ 3/99	13:49	MM	6020
Lab Sample Number: 99-A850					
Client Sample ID: ND-98-3209					
M Sample Prep	NA				D421
Total Digestion Solids	NA	2/18/99	8:00	BR	3050
Arsenic, Total	0.1 mg/kg	3/ 1/99	8:58	MM	6020
Cadmium, Total	0.01 mg/kg	3/ 1/99	8:58	MM	6020
Lead, Total	0.1 mg/kg	3/ 1/99	8:58	MM	6020
Zinc, Total	0.1 mg/kg	3/ 3/99	13:49	MM	6020

Approved by : SH Date : 3/3/99

Acculabs Inc

QA/QC DATA SHEET

Acculabs Inc.

ALR Job #: 027907

Date Rec: 01/14/99

Analyte	Calibration Verification			Calibration Blank		Lab Control Sample / Spike Blank			Reagent Blank
	True mg/L	Initial %R	Continue %R	Initial	Continue	True	Found	%R	
Arsenic	0.10	97	97	<0.001	<0.001	917	1065	116	<0.001
			97		<0.001				
			96		<0.001				
			95		<0.001				
			100		<0.001				
			98		<0.001				
			95		<0.001				
			96		<0.001				
			94		<0.001				
Arsenic	0.10	101	104	<0.001	<0.001	917	1044	114	<0.001
		98	96	<0.001	<0.001		967	105	<0.001
			95		<0.001				
			98		<0.001				
			98		<0.001				
			100		<0.001				
Arsenic	0.10	98	98	<0.001	<0.001	917	950	104	<0.001
			100		<0.001		957	104	<0.001
Cadmium	0.010	99	97	<0.0001	<0.0001	45.4	42	92	<0.0001
			99		<0.0001				
			96		<0.0001				
			93		<0.0001				
			110		<0.0001				
			97		<0.0001				
			94		<0.0001				
			96		<0.0001				
			94		<0.0001				

Acculabs Inc

QA/QC DATA SHEET

Acculabs Inc.

ALR Job #: 027907

Date Rec: 01/14/99

Analyte	Calibration Verification			Calibration Blank		Lab Control Sample / Spike Blank			Reagent Blank
	True mg/L	Initial %R	Continue %R	Initial	Continue	True	Found	%R	
Cadmium	0.010	101	105	<0.0001	<0.0001	45.4	42	92	<0.0001
		100	96	<0.0001	<0.0001		40	88	<0.0001
			96		<0.0001				
			99		<0.0001				
			97		<0.0001				
			99		<0.0001				
Cadmium	0.010	100	101	<0.0001	<0.0001	45.4	39	86	<0.0001
			102		<0.0001		38.8	85	<0.0001
Lead	0.10	100	99	<0.001	<0.001				
			99		<0.001				
			97		<0.001				
			97		<0.001				
			102		<0.001				
			100		<0.001				
			97		<0.001				
			98		<0.001				
			95		<0.001				
Lead	0.10	101	107	<0.001	<0.001	236	208	88	<0.001
		99	97	<0.001	<0.001		199	84	<0.001
			96		<0.001				
			99		<0.001				
			99		<0.001				
			100		<0.001				
Lead	0.10	98	102	<0.001	<0.001	236	189	80	<0.001
			101		<0.001		196	83	<0.001

Acculabs Inc

QA/QC DATA SHEET

Acculabs Inc.

ALR Job #: 027907

Date Rec: 01/14/99

Analyte	Calibration Verification			Calibration Blank		Lab Control Sample / Spike Blank			Reagent Blank
	True mg/L	Initial %R	Continue %R	Initial	Continue	True	Found	%R	
Zinc	0.10	101	103	<0.001	<0.001	187	193	103	0.008*
			102		<0.001				
			99		<0.001				
			99		<0.001				
			104		<0.001				
			102		<0.001				
			99		<0.001				
			100		<0.001				
			97		<0.001				
Zinc	0.10	101	107	<0.001	<0.001	187	229	122**	0.010*
		101	96	<0.001	<0.001		227	121**	0.003
			98		<0.001				
			99		<0.001				
			101		<0.001				
			101		<0.001				
Zinc	0.10	100	103	<0.001	<0.001	187	187	100	0.010*
			101		<0.001				
Zinc	0.10	106	109	<0.001	<0.001	187	214	114	0.005*
			103		<0.001				

*Sample concentration 5 times greater than blank reading.
** Sample control limit is 138 to 236 mg/Kg.

Approved: EH
Date: 3/4/99

000027

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SPIKE/DUPLICATE DATA SHEET

ALR Job #: 027907

Date Rec: 01/14/99

Analyte	Sample #	Spike Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R	Sample #	Sample(S) mg/Kg	Duplicate(D) mg/Kg	RPD
Arsenic	99-A816	0.060	0.034(100X)	0.025	104	99-A817	280	270	4
	99-A827	0.030	0.0066(100X)	0.025	94	99-A828	230	220	4
	99-A846	0.031	0.0067(100X)	0.025	97	99-A847	320	300	6
	99-A850	0.028	0.001(100X)	0.025	108				
Cadmium	99-A816	0.0260	0.0011(100X)	0.025	100	99-A817	7.9	6.6	18
	99-A827	0.0244	0.0002(100X)	0.025	97	99-A828	5.4	5.2	4
	99-A846	0.0538	0.0313(100X)	0.025	90	99-A847	13	12	8
	99-A850	0.0241	0.0020	0.025	96				
Lead	99-A816	0.153	0.130(100X)	0.025	92	99-A817	330	310	6
	99-A827	0.034	0.010(100X)	0.025	96	99-A828	360	350	3
	99-A846	0.317	0.315(100X)	0.025	1*	99-A847	4600	4400	4
	99-A850	0.030	0.002(100X)	0.025	112				
Zinc	99-A816	0.085	0.036(100X)	0.050	98	99-A817	240	240	0
	99-A827	0.062	0.016(100X)	0.050	92	99-A828	220	220	0
	99-A846	0.181	0.153(1000X)	0.050	113	99-A847	1900	1800	5
	99-A850	0.066	0.012(100X)	0.050	108				

000028

%R = [SSR-SR/SA] x 100

RPD = [S-D] /([S+D])/2

*%RPD - sample concentration 4x greater than spike added.

Approved: [illegible]

Date: 3/4/99

QUALITY ASSURANCE LABORATORY
ENVIRONMENTAL RESEARCH CENTER

UNIVERSITY OF NEVADA, LAS VEGAS
4505 MARYLAND PARKWAY • LAS VEGAS, NEVADA 89154 • (702) 739-3142

June 3, 1987

SOLID LABORATORY CONTROL SAMPLE LCS (0287)

The solid laboratory control sample LCS (0287) was prepared by the UNLV Quality Assurance Laboratory. The "True Value" concentrations were derived from the results of an EPA multi-laboratory analysis of the solid material by Contract Laboratory Program procedures. The "True Value" concentrations are given in Table 1.

TABLE 1. "TRUE VALUE" CONCENTRATIONS AND CONTROL LIMITS FOR THE ELEMENTS IN THE SOLID LABORATORY CONTROL SAMPLE LCS (0287)

Element	"True Value" (mg/kg)	Control Limits (mg/kg)		
Al	325	225	to	424
Sb	211	127	to	294
As	917	635	to	1199
Ba *	[4.8]	0	to	40
Be	19.4	16.5	to	22.3
Cd	45.4	35.7	to	55.1
Ca	196200	166800	to	225600
Cr	99.6	79.2	to	120
Co	144	125	to	162
Cu	6910	6006	to	7820
Fe	22430	17770	to	27080
Pb	236	188	to	285
Mg	118100	100400	to	129900
Mn	208	177	to	239
Hg	12.7	8.5	to	17.0
Ni	60.9	49.2	to	72.6
K *	[50]	0	to	1000
Ag	22.2	15.5	to	29.0
Se	39.2	19.1	to	59.4
Na *	[50]	0	to	1000
Tl	39.0	24.6	to	53.5
V	65.8	51.7	to	79.9
Zn	187	138	to	236

[x] Denotes values which are greater than or equal to the instrument detection limit but less than the contract required detection limit.

* Values for these elements are below the CRDL and the windows are given for advisory purposes only.

ERC

SAMPLE DIGESTION SOIL (01)

Analysis: Acid Dig-Soil ds

Digestion Date: ~~2-9-99~~ 2-10-99 BR

Procedure No. I09022C

Hot Plate Temp. 86 °C

Analyst: BR

Method No.: 3050

Sample ID	Sample Weight (g)		Matrix	Final Volume (mL)
	As Received	Dried		
MB	—			50
SOIL SRM	0.2529		SOIL	
027905-99-A795	0.5035			
↓ /R	0.5037			
796	0.5015			
797	0.5009			
798	0.5044			
799	0.4959			
800	0.5022			
801	0.4964			
802	0.4989			
803	0.5008			
804	0.4978			
805	0.4987			
806	0.5005			
807	0.4977			
808	0.5039			
809	0.4993			
810	0.4999			
811	0.4993			
812	0.5040			
027907-99-A816	0.4953			

Comments:

QC Checked: mm

F 8741 Rev.__

SAMPLE DIGESTION SOIL (01)

Analysis: Acid Digest-Solids

Digestion Date: ~~2-9-99~~ 2-10-99 BR

Procedure No. I090220

Hot Plate Temp. 86 °C

Analyst: BR

Method No.: 3050

Sample ID	Sample Weight (g)		Matrix	Final Volume (mL)
	As Received	Dried		
MB	—	—	—	50
SOIL SRM	0.2522		SOIL	1
027907-99-A817	0.5029			
↓ /R	0.4990			
818	0.5033			
819	0.5029			
820	0.5041			
821	0.4957			
822	0.4993			
823	0.4992			
824	0.5045			
825	0.4972			
826	0.5048			
827	0.5038			

Comments:

QC Checked: mm

F 8741 Rev.__

SAMPLE DIGESTION SOIL (02)

Analysis: Acid Dig - Solids

Digestion Date: 2-18-99

Procedure No. I09022C

Hot Plate Temp. 87 °C

Analyst: BR

Method No.: 3050

Sample ID	Sample Weight (g)		Matrix	Final Volume (mL)
	As Received	Dried		
MB				50
SOLID - SRM	0.2526		SOLID	
027907-99-A828	0.5001		SOIL	
↓/R	0.5025			
829	0.5009			
830	0.4994			
831	0.4989			
832	0.4958			
833	0.5017			
834	0.5006			
835	0.5029			
836	0.5024			
837	0.5045			
838	0.5017			
839	0.4972			
840	0.5008			
841	0.4973			
842	0.5015			
843	0.5040			
844	0.5021			
845	0.4993			
846	0.4994			

Comments:

QC Checked: MM

F 8741 Rev.__

SAMPLE DIGESTION SOIL (02)

Analysis: Acid Dig-Solids

Digestion Date: 2-18-99

Procedure No. I090226 Hot Plate Temp. 87 °C

Analyst: BR

Method No.: 3050

Sample ID	Sample Weight (g)		Matrix	Final Volume (mL)
	As Received	Dried		
MB				50
SOLID-SRM	0.2524		SOLID	
99-A847	0.5000		SOIL	
↓ /R	0.5039			
848	0.4967			
849	0.4968			
850	0.4973		↓	
028186-99-A1736		0.5006		
1737		0.5038		
1738		0.5019	↓	
028390-99-A2342	0.9509		SOLID (wipes)	
2343	1.4246			
2344	0.9980			
2345	2.0440		↓	↓

Comments: Samples 99-2342-45 (wipes) entire sample consumed.

QC Checked: mr

Acculabs Inc. F8433 Rev. D

METAL REQUEST FOR

X REDIGEST ___ REANALYSIS

X ICP-MS ___ ICP ___ GRAPHITE ___ HG

Procedure No.: I09022

Method No.: 3050

Due: A.S.A.P.

ALR Job Number: 27907

Requested By: M.A

Duplicate: No Yes

Sample Number:

Spike: No Yes

Sample Number:

Spike for: P.A

Digestion: X Total ___Total Recoverable ___Dissolved ___Potentially Dissolved

___Filter Digestate

Location: F

Reason: SAMPLE LEAKED OUT OF VIAL NO SAMPLE TO RUN.

PARAMETER	SAMPLE NUMBER
As, Cd, Pb, Zn	99.A833

Tray ID:

Comments:

Redigest Completed by:

Date:

Analysis Completed by:

Date:

F 8741 Rev.__

SAMPLE DIGESTION SOIL (01)

Analysis: Acid Dig.- Solids

Digestion Date: 2-26-99

Procedure No. I 09022C

Hot Plate Temp. 85 °C

Analyst: RR

Method No.: 3050

Sample ID	Sample Weight (g)		Matrix	Final Volume (mL)
	As Received	Dried		
MB	—	—	—	50
SRM-SOLID	0.2506		SOLID	1
027907-99-A833	0.5039		SOIL	1

Comments:

QC Checked: MA

000035

Acculabs Inc. F8625 Rev. B

Date: 2-25-99

AL # (part.) 27903, 27905 (part.), 27907,

Analyst: MG

ICP-MS COVER SHEET
Perkin-Elmer/Sciex Elan 5000 Control #I073
Procedure #I09029___ EPA Method 200.8
Procedure #I09035 A SW846 Method 6020

Std. Prep Log #	Expiration Date	Blank
		Std#1
MS0506	3-2-99	10.0 ppb As, Ba, Be, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn 1.0 ppb, Ag, Cd, Th, U
MS0507	3-2-99	Std#2 200.0 ppb As, Ba, Be, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn 20.0 ppb, Ag, Cd, Th, U
		MSG Std#1 10 ppb Ag, As, Bi, Cd, Cu, Pb, Sb, Sn
		MSG Std#2 200 ppb Ag, As, Bi, Cd, Cu, Pb, Sb, Sn
		LiCs Std#1 10 ppb
		LiCs Std#2 200 ppb
		Other:
		Calibration Verification
M13-20	3-10-99	ICP-MS CV 100 ppb As,Ba,Be, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se,Th, Tl, V, Zn 10 ppb, Ag, Cd, U
		MSG-CV 100 ppb Ag, As, Bi, Cd, Cu, Pb, Sb, Sn
		Other:

Method Detection Limits (μ/L)

Ag	0.5	Bi	1.0	Cs	1.0	Mo	1.0	Se	5.0	U	0.1
As	1.0	Cd	0.1	Cu	1.0	Ni	5.0	Sn	1.0	V	5.0
Ba	1.0	Co	0.1	Li	5.0	Pb	1.0	Th	0.5	Zn	5.0
Ba	1.0	Cr	1.0	Mn	1.0	Sb	1.0	Tl	1.0		

Reviewed & Approved: RM

Sample Entry Report

Data Set: 22599A
Data Set Description:

Sample Id	Type	Seq #	AS Pos.
STD0	Standard	1	1
STD1	Standard	2	1
STD2	Standard	3	1
ICV	Sample	4	1
ICB	Sample	5	1
ICS A	Sample	6	1
ICS AB	Sample	7	1
CCV	Sample	8	1
CCB	Sample	9	1
99-A762	Sample	10	1
99-A762 MS PDS	Sample	11	1
99-A762 MSD PDS	Sample	12	1
MB	Sample	13	1
SRM 0287	Sample	14	1
99-A763	Sample	15	1
99-A763 MD	Sample	16	1
99-A764	Sample	17	1
99-A765	Sample	18	1
99-A766	Sample	19	1
CCV	Sample	20	1
CCB	Sample	21	1
99-A766	Sample	22	1
99-A766	Sample	23	1
99-A767	Sample	24	1
99-A768	Sample	25	1
99-A768	Sample	26	1
99-A769	Sample	27	1
99-A770	Sample	28	1
99-A771	Sample	29	1
99-A772	Sample	30	1
99-A773	Sample	31	1
CCV	Sample	32	1
CCB	Sample	33	1
99-A774	Sample	34	1
99-A775	Sample	35	1
99-A776	Sample	36	1
99-A777	Sample	37	1
99-A778	Sample	38	1
99-A779	Sample	39	1
99-A780	Sample	40	1
99-A781	Sample	41	1
99-A781 MS PDS	Sample	42	1
99-A781 MSD PDS	Sample	43	1
CCV	Sample	44	1
CCB	Sample	45	1
MB #2	Sample	46	1
SRM 0287	Sample	47	1
99-A782	Sample	48	1
99-A783	Sample	49	1
99-A783	Sample	50	1
99-A784	Sample	51	1
99-A787	Sample	52	1
99-A787 MD	Sample	53	1
99-A788	Sample	54	1
99-A789	Sample	55	1
CCV	Sample	56	1
CCB	Sample	57	1
99-A790	Sample	58	1
99-A791	Sample	59	1
99-A792	Sample	60	1
99-A793	Sample	61	1
99-A794	Sample	62	1
99-A794 MS PDS	Sample	63	1
99-A794 MSD PDS	Sample	64	1
CCV	Sample	65	1
CCB	Sample	66	1
MB	Sample	67	1
SRM 0287	Sample	68	1
99-A795	Sample	69	1
99-A795 MD	Sample	70	1
99-A796	Sample	71	1
99-A797	Sample	72	1
99-A797	Sample	73	1
99-A798	Sample	74	1
99-A799	Sample	75	1
99-A800	Sample	76	1

027903

027905

Sample Entry Report

Sample Id	Type	Seq #	AS Pos.
CCV	Sample	77	1
CCB	Sample	78	1
99-A801	Sample	79	1
99-A802	Sample	80	1
99-A803	Sample	81	1
99-A804	Sample	82	1
99-A805	Sample	83	1
99-A806	Sample	84	1
99-A807	Sample	85	1
99-A808	Sample	86	1
99-A809	Sample	87	1
99-A810	Sample	88	1
CCV	Sample	89	1
CCB	Sample	90	1
99-A811	Sample	91	1
99-A812	Sample	92	1
99-A816	Sample	93	1
99-A816 MS PDS	Sample	94	1
99-A816 MSD PDS	Sample	95	1
CCV	Sample	96	1
CCB	Sample	97	1

027907

Parameter Entry Report

File name: ISSI
Description:

Sweeps/Reading: 40
Readings/Replicate: 1
Number of Replicates: 3
Points Across Peak: 1
Resolution: Normal
Scanning Mode: Peak Hop
Baseline Time (ms): 0
Transfer Frequency: Replicate
Polarity: +

Element/ Mass	Mass	Internal Standard	Times (ms): Replicate	Dwell	OmniRange
Zn	66		1000	25	0.0
Ge	73	<	1000	25	0.0
As	75		1000	25	0.0
Cd	111		1000	25	0.0
In	115	<	1000	25	0.0
Pb	208		1000	25	0.0
Bi	209	<	1000	25	0.0
Cl	35		1000	25	29.5
Ca	44		1000	25	20.0
Ti	47		1000	25	0.0
Br	81		1000	25	0.0
Kr	83		1000	25	0.0

Elemental Equations:

Zn 66 = Zn 66 - 0.003 * Ti 47
Ge 73 = Ge 73
As 75 = As 75 - 3.033 * mass 77.000 + 1.334 * mass 82.000
Cd 111 = Cd 111 - 0.00118 * Mo 95
In 115 = In 115 - 0.01457 * Sn 118
Pb 208 = Pb 208 + 1 * mass 206.000 + 1 * mass 207.000
Bi 209 = Bi 209
Cl 35 = Cl 35
Ca 44 = Ca 44
Ti 47 = Ti 47
Br 81 = Br 81
Kr 83 = Kr 83

Manual Settings:

Plasma Flow:	10 L/min	RF Power:	1080 Watts
Nebulizer Flow:	0.933 L/min	CEM Voltage:	-3.3 kV
Auxiliary Flow:	1 L/min	Sample Uptake:	1 mL/min

GRAPHICS: SIGNAL DISPLAY SUMMARY REPORT

Data Set:	SENSITIVITY
Data Set Description:	
Parameter File:	ALROptimize
Sample ID:	MP13-05
Sample Description:	
Sample Type:	Sample
Sequence Number:	202
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	30
Time:	08:58:11 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35

	Intensity	Intensity Std Dev	RSD
Mg 24	2.309E+04	452.5298	1.96
Rh 103	5.303E+04	860.0103	1.62
Pb 208	4.542E+04	2338.2419	5.15
CeO 156	0.0430	5.564E-03	12.92
$Ce 140	8.043E+04	1706.2981	2.12
Ba++ 138	0.0114	1.067E-03	9.35

000040

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	STD0
Sample Description:	
Sample Type:	Standard
Sequence Number:	001
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	09:10:11 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	150	16.1881	0	0.0000
Ge 73	104747	1751.8547	0	0.0000
As 75	-50	29.1794	0	0.0000
Cd 111	12	0.9378	0	0.0000
In 115	196342	1849.8922	0	0.0000
Pb 208	193	16.7184	0	0.0000
Bi 209	375256	5121.5337	0	0.0000
Cl 35	365	10.3920	0	0.0000
Ca 44	30	2.8868	0	0.0000
Ti 47	341	20.8167	0	0.0000
Br 81	4243	166.8456	0	0.0000
Kr 83	28	2.0000	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	<	1.433E-03	1.545E-04			ppb	
Ge 73		104747	1751.8547			ions/sec	
As 75		-4.802E-04	2.786E-04			ppb	
Cd 111	<	6.096E-05	4.776E-06			ppb	
In 115		196342	1849.8922			ions/sec	
Pb 208	<	5.130E-04	4.455E-05			ppb	
Bi 209		375256	5121.5337			ions/sec	
Cl 35		365	10.3920				
Ca 44		30	2.8868				
Ti 47		341	20.8167				
Br 81		4243	166.8456				
Kr 83		28	2.0000				

		Entered Conc.
Zn 66	<	0.0000
Ge 73		
As 75		0.0000
Cd 111	<	0.0000
In 115		
Pb 208	<	0.0000
Bi 209		
Cl 35		
Ca 44		
Ti 47		
Br 81		
Kr 83		

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	STD1
Sample Description:	
Sample Type:	Standard
Sequence Number:	002
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	09:15:59 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	4118	82.4035	0	0.0000
Ge 73	100719	82.7594	0	0.0000
As 75	3356	146.0375	0	0.0000
Cd 111	596	33.6755	0	0.0000
In 115	191441	687.4166	0	0.0000
Pb 208	84738	893.4203	0	0.0000
Bi 209	379365	4190.0869	0	0.0000
Cl 35	341	30.5354	0	0.0000
Ca 44	38	6.1101	0	0.0000
Ti 47	340	35.1056	0	0.0000
Br 81	4227	75.5001	0	0.0000
Kr 83	24	2.6457	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0409	8.182E-04	10.0000	0.2074	ppb	2.0738
Ge 73	<	100719	82.7594			ions/sec	
As 75		0.0333	1.450E-03	10.0000	0.4290	ppb	4.2902
Cd 111		3.114E-03	1.759E-04	1.0000	0.0576	ppb	5.7625
In 115	<	191441	687.4166			ions/sec	
Pb 208		0.2234	2.355E-03	10.0000	0.1057	ppb	1.0568
Bi 209	<	379365	4190.0869			ions/sec	
Cl 35		341	30.5354				
Ca 44		38	6.1101				
Ti 47		340	35.1056				
Br 81		4227	75.5001				
Kr 83		24	2.6457				

		Entered Conc.
Zn 66		10.0000
Ge 73	<	
As 75		10.0000
Cd 111		1.0000
In 115	<	
Pb 208		10.0000
Bi 209	<	
Cl 35		
Ca 44		
Ti 47		
Br 81		
Kr 83		

000042

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	STD2
Sample Description:	
Sample Type:	Standard
Sequence Number:	003
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	09:18:32 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	73930	1275.4479	0	0.0000
Ge 73	100160	1609.8729	0	0.0000
As 75	66573	1501.1052	0	0.0000
Cd 111	11576	162.0571	0	0.0000
In 115	189963	1915.6360	0	0.0000
Pb 208	1664474	1.816E+04	0	0.0000
Bi 209	378166	5159.4956	0	0.0000
Cl 35	360	11.9998	0	0.0000
Ca 44	34	5.2915	0	0.0000
Ti 47	346	15.1331	0	0.0000
Br 81	4205	83.7524	0	0.0000
Kr 83	31	3.5119	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.7381	0.0127	199.9813	3.4630	ppb	1.7316
Ge 73	<	100160	1609.8729			ions/sec	
As 75		0.6647	0.0150	199.9957	4.5082	ppb	2.2541
Cd 111		0.0609	8.531E-04	19.9999	0.2803	ppb	1.4014
In 115	<	189963	1915.6360			ions/sec	
Pb 208		4.4014	0.0480	199.9966	2.1830	ppb	1.0915
Bi 209	<	378166	5159.4956			ions/sec	
Cl 35		360	11.9998				
Ca 44		34	5.2915				
Ti 47		346	15.1331				
Br 81		4205	83.7524				
Kr 83		31	3.5119				

		Entered Conc.
Zn 66		200.0000
Ge 73	<	
As 75		200.0000
Cd 111		20.0000
In 115	<	
Pb 208		200.0000
Bi 209	<	
Cl 35		
Ca 44		
Ti 47		
Br 81		
Kr 83		

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	ICV
Sample Description:	M13-20
Sample Type:	Sample
Sequence Number:	004
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	09:25:02 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	37006	260.6791	0	0.0000
Ge 73	98861	607.2382	0	0.0000
As 75	31939	195.7487	0	0.0000
Cd 111	5674	98.0497	0	0.0000
In 115	188231	1485.5238	0	0.0000
Pb 208	820904	6591.2515	0	0.0000
Bi 209	374632	1793.3788	0	0.0000
Cl 35	363	31.4333	0	0.0000
Ca 44	131	13.6138	0	0.0000
Ti 47	378	29.2638	0	0.0000
Br 81	4138	47.0918	0	0.0000
Kr 83	25	3.0551	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		0.3743	2.637E-03	101.0521	101%	0.7171	ppb	0.7096
Ge 73	<	98861	607.2382				ions/sec	
As 75		0.3231	1.980E-03	97.2435	97%	0.5956	ppb	0.6125
Cd 111		0.0301	5.209E-04	9.8827	99%	0.1711	ppb	1.7317
In 115	<	188231	1485.5238				ions/sec	
Pb 208		2.1912	0.0176	99.5232	100%	0.7998	ppb	0.8036
Bi 209	<	374632	1793.3788				ions/sec	
Cl 35		363	31.4333					
Ca 44		131	13.6138					
Ti 47		378	29.2638					
Br 81		4138	47.0918					
Kr 83		25	3.0551					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 22599A
Data Set Description:
Parameter File: ISSI

Sample ID: ICB
Sample Description:
Sample Type: Sample
Sequence Number: 005
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 09:39:48 Feb 25 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	122	6.3552	0	0.0000
Ge 73	101279	983.4520	0	0.0000
As 75	-18	19.6334	0	0.0000
Cd 111	13	5.4534	0	0.0000
In 115	195382	617.3954	0	0.0000
Pb 208	800	53.8301	0	0.0000
Bi 209	389977	4828.9902	0	0.0000
Cl 35	323	4.5816	0	0.0000
Ca 44	28	5.8595	0	0.0000
Ti 47	342	15.0115	0	0.0000
Br 81	4120	50.5649	0	0.0000
Kr 83	20	4.3589	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66	]	1.204E-03	6.275E-05	-0.4173	ok	0.0171	ppb	4.0889
Ge 73	<	101279	983.4520				ions/sec	
As 75	]	-1.777E-04	1.939E-04	0.0100	ok	0.0583	ppb	582.1279
Cd 111	]	6.684E-05	2.791E-05	5.207E-04	ok	9.170E-03	ppb	1761.0974
In 115	<	195382	617.3954				ions/sec	
Pb 208	]	2.051E-03	1.380E-04	6.202E-03	ok	6.275E-03	ppb	101.1727
Bi 209	<	389977	4828.9902				ions/sec	
Cl 35		323	4.5816					
Ca 44		28	5.8595					
Ti 47		342	15.0115					
Br 81		4120	50.5649					
Kr 83		20	4.3589					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	ICS A
Sample Description:	S5753 (10X)
Sample Type:	Sample
Sequence Number:	006
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	09:42:50 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	808	47.3746	0	0.0000
Ge 73	95132	614.8448	0	0.0000
As 75	-45	62.4751	0	0.0000
Cd 111	154	44.0969	0	0.0000
In 115	188681	981.9118	0	0.0000
Pb 208	9749	282.2331	0	0.0000
Bi 209	333691	3764.8647	0	0.0000
Cl 35	11528	91.5961	0	0.0000
Ca 44	125973	2036.4685	0	0.0000
Ti 47	454172	2831.0305	0	0.0000
Br 81	5559	96.7173	0	0.0000
Kr 83	148	16.6534	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	]	8.498E-03	4.980E-04	1.5662	0.1354	ppb	8.6468
Ge 73	<]	95132	614.8448			ions/sec	
As 75	]	-4.760E-04	6.567E-04	-0.0797	0.1975	ppb	247.8150
Cd 111	]	8.149E-04	2.337E-04	0.2463	0.0768	ppb	31.1777
In 115	<]	188681	981.9118			ions/sec	
Pb 208	]	0.0292	8.458E-04	1.2411	0.0384	ppb	3.0978
Bi 209	<]	333691	3764.8647			ions/sec	
Cl 35		11528	91.5961				
Ca 44		125973	2036.4685				
Ti 47		454172	2831.0305				
Br 81		5559	96.7173				
Kr 83		148	16.6534				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	ICS AB
Sample Description:	S5753 (10X) S5745 (100X)
Sample Type:	Sample
Sequence Number:	007
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	09:46:57 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	7797	72.9558	0	0.0000
Ge 73	98672	633.0197	0	0.0000
As 75	6932	94.2052	0	0.0000
Cd 111	10673	22.8243	0	0.0000
In 115	194675	1339.0359	0	0.0000
Pb 208	9233	68.9176	0	0.0000
Bi 209	352773	4332.5581	0	0.0000
Cl 35	9281	79.7090	0	0.0000
Ca 44	100348	605.7304	0	0.0000
Ti 47	417341	1871.1871	0	0.0000
Br 81	5158	92.0003	0	0.0000
Kr 83	140	6.0281	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		0.0790	7.394E-04	20.7436	104%	0.2011	ppb	0.9693
Ge 73	<	98672	633.0197				ions/sec	
As 75		0.0703	9.547E-04	21.1960	106%	0.2872	ppb	1.3549
Cd 111		0.0548	1.172E-04	17.9905	90%	0.0385	ppb	0.2141
In 115	<	194675	1339.0359				ions/sec	
Pb 208		0.0262	1.954E-04	1.1028		8.881E-03	ppb	0.8053
Bi 209	<	352773	4332.5581				ions/sec	
Cl 35		9281	79.7090					
Ca 44		100348	605.7304					
Ti 47		417341	1871.1871					
Br 81		5158	92.0003					
Kr 83		140	6.0281					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCV
Sample Description:	M13-20
Sample Type:	Sample
Sequence Number:	008
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	09:51:39 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	38626	414.1015	0	0.0000
Ge 73	101248	750.1036	0	0.0000
As 75	32497	84.6609	0	0.0000
Cd 111	5727	66.6025	0	0.0000
In 115	192742	1252.5854	0	0.0000
Pb 208	900485	3845.5146	0	0.0000
Bi 209	413878	2657.0583	0	0.0000
Cl 35	313	10.0173	0	0.0000
Ca 44	102	12.1245	0	0.0000
Ti 47	459	46.2943	0	0.0000
Br 81	4010	91.2033	0	0.0000
Kr 83	22	4.1633	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		0.3815	4.090E-03	103.0019	103%	1.1122	ppb	1.0798
Ge 73	<	101248	750.1036				ions/sec	
As 75		0.3210	8.362E-04	96.6110	97%	0.2515	ppb	0.2603
Cd 111		0.0297	3.456E-04	9.7405	97%	0.1135	ppb	1.1655
In 115	<	192742	1252.5854				ions/sec	
Pb 208		2.1757	9.291E-03	98.8185	99%	0.4224	ppb	0.4274
Bi 209	<	413878	2657.0583				ions/sec	
Cl 35		313	10.0173					
Ca 44		102	12.1245					
Ti 47		459	46.2943					
Br 81		4010	91.2033					
Kr 83		22	4.1633					

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QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCB
Sample Description:	
Sample Type:	Sample
Sequence Number:	009
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	09:55:38 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	141	5.8775	0	0.0000
Ge 73	101025	840.2508	0	0.0000
As 75	-29	32.0022	0	0.0000
Cd 111	14	2.8460	0	0.0000
In 115	193744	1825.5519	0	0.0000
Pb 208	972	128.7817	0	0.0000
Bi 209	416126	2357.7080	0	0.0000
Cl 35	288	21.0322	0	0.0000
Ca 44	27	4.9329	0	0.0000
Ti 47	374	26.2753	0	0.0000
Br 81	4044	4.2454	0	0.0000
Kr 83	25	5.0000	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66	<	1.391E-03	5.818E-05	-0.3664	OK	0.0158	ppb	4.3176
Ge 73	<	101025	840.2508				ions/sec	
As 75	<	-2.879E-04	3.168E-04	-0.0231	OK	0.0953	ppb	412.0515
Cd 111	<	7.077E-05	1.469E-05	1.813E-03	OK	4.826E-03	ppb	266.2242
In 115	<	193744	1825.5519				ions/sec	
Pb 208	<	2.337E-03	3.095E-04	0.0192	OK	0.0141	ppb	73.2753
Bi 209	<	416126	2357.7080				ions/sec	
Cl 35		288	21.0322					
Ca 44		27	4.9329					
Ti 47		374	26.2753					
Br 81		4044	4.2454					
Kr 83		25	5.0000					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCV
Sample Description:	M13-20
Sample Type:	Sample
Sequence Number:	020
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	10:47:23 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	36811	322.1433	0	0.0000
Ge 73	97423	1167.5211	0	0.0000
As 75	31470	482.6544	0	0.0000
Cd 111	5651	83.0128	0	0.0000
In 115	187987	509.1459	0	0.0000
Pb 208	889458	8259.3242	0	0.0000
Bi 209	407533	5273.7202	0	0.0000
Cl 35	225	22.5392	0	0.0000
Ca 44	98	14.0001	0	0.0000
Ti 47	377	11.5334	0	0.0000
Br 81	4002	115.3509	0	0.0000
Kr 83	24	1.1547	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		0.3778	3.307E-03	102.0074	102%	0.8992	ppb	0.8815
Ge 73	<	97423	1167.5211				ions/sec	
As 75		0.3230	4.954E-03	97.2286	97%	1.4902	ppb	1.5327
Cd 111	<	0.0301	4.416E-04	9.8556	99%	0.1451	ppb	1.4721
In 115	<	187987	509.1459				ions/sec	
Pb 208	<	2.1825	0.0203	99.1284	99%	0.9213	ppb	0.9294
Bi 209	<	407533	5273.7202				ions/sec	
Cl 35		225	22.5392					
Ca 44		98	14.0001					
Ti 47		377	11.5334					
Br 81		4002	115.3509					
Kr 83		24	1.1547					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCB
Sample Description:	
Sample Type:	Sample
Sequence Number:	021
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	10:50:11 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	150	15.6869	0	0.0000
Ge 73	98139	466.2567	0	0.0000
As 75	-27	21.9989	0	0.0000
Cd 111	9	1.6245	0	0.0000
In 115	191063	681.1069	0	0.0000
Pb 208	853	127.4626	0	0.0000
Bi 209	412142	4862.2422	0	0.0000
Cl 35	244	4.5818	0	0.0000
Ca 44	19	7.8103	0	0.0000
Ti 47	339	12.0557	0	0.0000
Br 81	4040	101.0433	0	0.0000
Kr 83	21	0.5773	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		1.532E-03	1.598E-04	-0.3282	ok	0.0435	ppb	13.2448
Ge 73	<	98139	466.2567				ions/sec	
As 75		-2.768E-04	2.242E-04	-0.0198	ok	0.0674	ppb	340.3276
Cd 111		4.814E-05	8.502E-06	-5.622E-03	ok	2.793E-03	ppb	49.6823
In 115	<	191063	681.1069				ions/sec	
Pb 208		2.071E-03	3.093E-04	7.104E-03	ok	0.0141	ppb	197.9055
Bi 209	<	412142	4862.2422				ions/sec	
Cl 35		244	4.5818					
Ca 44		19	7.8103					
Ti 47		339	12.0557					
Br 81		4040	101.0433					
Kr 83		21	0.5773					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCV
Sample Description:	M13-20
Sample Type:	Sample
Sequence Number:	032
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	11:39:20 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	34871	505.6148	0	0.0000
Ge 73	94687	632.9963	0	0.0000
As 75	30277	616.6987	0	0.0000
Cd 111	5444	15.9167	0	0.0000
In 115	186102	1014.7873	0	0.0000
Pb 208	877375	5990.5649	0	0.0000
Bi 209	410017	3615.9854	0	0.0000
Cl 35	222	11.0608	0	0.0000
Ca 44	103	6.6584	0	0.0000
Ti 47	343	35.3421	0	0.0000
Br 81	3794	34.7857	0	0.0000
Kr 83	20	5.5076	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		0.3683	5.340E-03	99.4055	99%	1.4521	ppb	1.4608
Ge 73	<	94687	632.9963				ions/sec	
As 75		0.3198	6.513E-03	96.2484	96%	1.9591	ppb	2.0355
Cd 111		0.0293	8.553E-05	9.5896	96%	0.0281	ppb	0.2930
In 115	<	186102	1014.7873				ions/sec	
Pb 208		2.1399	0.0146	97.1878	97%	0.6642	ppb	0.6834
Bi 209	<	410017	3615.9854				ions/sec	
Cl 35		222	11.0608					
Ca 44		103	6.6584					
Ti 47		343	35.3421					
Br 81		3794	34.7857					
Kr 83		20	5.5076					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCB
Sample Description:	
Sample Type:	Sample
Sequence Number:	033
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	11:42:13 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	146	7.0751	0	0.0000
Ge 73	94571	572.3791	0	0.0000
As 75	-37	25.9040	0	0.0000
Cd 111	14	4.4799	0	0.0000
In 115	185593	366.9252	0	0.0000
Pb 208	941	183.9570	0	0.0000
Bi 209	409384	3610.3945	0	0.0000
Cl 35	212	11.5330	0	0.0000
Ca 44	14	3.0551	0	0.0000
Ti 47	324	18.3401	0	0.0000
Br 81	3839	61.7272	0	0.0000
Kr 83	21	2.0000	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	]	1.540E-03	7.481E-05	-0.3259 ok	0.0203	ppb	6.2418
Ge 73	<	94571	572.3791			ions/sec	
As 75	]	-3.939E-04	2.739E-04	-0.0550 ok	0.0824	ppb	149.7789
Cd 111	]	7.333E-05	2.414E-05	2.651E-03 ok	7.931E-03	ppb	299.1044
In 115	<	185593	366.9252			ions/sec	
Pb 208	]	2.299E-03	4.494E-04	0.0175 ok	0.0204	ppb	116.9376
Bi 209	<	409384	3610.3945			ions/sec	
Cl 35		212	11.5330				
Ca 44		14	3.0551				
Ti 47		324	18.3401				
Br 81		3839	61.7272				
Kr 83		21	2.0000				

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QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCV
Sample Description:	M13-20
Sample Type:	Sample
Sequence Number:	044
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	12:33:17 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	35077	148.2812	0	0.0000
Ge 73	95440	2292.3057	0	0.0000
As 75	30222	546.8693	0	0.0000
Cd 111	5401	104.4413	0	0.0000
In 115	190345	3250.7549	0	0.0000
Pb 208	884724	5095.4849	0	0.0000
Bi 209	415802	2975.3914	0	0.0000
Cl 35	235	25.4234	0	0.0000
Ca 44	116	6.2452	0	0.0000
Ti 47	398	26.5019	0	0.0000
Br 81	3994	51.8827	0	0.0000
Kr 83	21	4.0415	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		0.3675	1.554E-03	99.2041	99%	0.4225	ppb	0.4259
Ge 73	<	95440	2292.3057				ions/sec	
As 75		0.3167	5.730E-03	95.3153	95%	1.7236	ppb	1.8083
Cd 111		0.0284	5.487E-04	9.3008	93%	0.1803	ppb	1.9382
In 115	<	190345	3250.7549				ions/sec	
Pb 208		2.1278	0.0123	96.6378	97%	0.5571	ppb	0.5765
Bi 209	<	415802	2975.3914				ions/sec	
Cl 35		235	25.4234					
Ca 44		116	6.2452					
Ti 47		398	26.5019					
Br 81		3994	51.8827					
Kr 83		21	4.0415					

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QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCB
Sample Description:	
Sample Type:	Sample
Sequence Number:	045
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	12:36:05 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	112	9.2145	0	0.0000
Ge 73	94325	1592.7704	0	0.0000
As 75	-3	8.7648	0	0.0000
Cd 111	11	4.1136	0	0.0000
In 115	187542	1917.0776	0	0.0000
Pb 208	869	120.4338	0	0.0000
Bi 209	416508	3188.9060	0	0.0000
Cl 35	195	10.8165	0	0.0000
Ca 44	21	4.6188	0	0.0000
Ti 47	322	4.0415	0	0.0000
Br 81	3924	41.0159	0	0.0000
Kr 83	24	12.5034	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66	]	1.188E-03	9.769E-05	-0.4219	OK	0.0266	ppb	6.2972
Ge 73	<	94325	1592.7704				ions/sec	
As 75	]	-2.689E-05	9.292E-05	0.0554	OK	0.0280	ppb	50.4763
Cd 111	]	5.965E-05	2.193E-05	-1.840E-03	OK	7.206E-03	ppb	391.5430
In 115	<	187542	1917.0776				ions/sec	
Pb 208	]	2.086E-03	2.892E-04	7.797E-03	OK	0.0131	ppb	168.5750
Bi 209	<	416508	3188.9060				ions/sec	
Cl 35		195	10.8165					
Ca 44		21	4.6188					
Ti 47		322	4.0415					
Br 81		3924	41.0159					
Kr 83		24	12.5034					

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QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCV
Sample Description:	M13-20
Sample Type:	Sample
Sequence Number:	056
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	13:22:43 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

		Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66		36467	430.3122	0	0.0000
Ge 73		94464	301.0705	0	0.0000
As 75		31298	581.5500	0	0.0000
Cd 111		5757	927.5551	0	0.0000
In 115	>	171657	2.498E+04	0	0.0000
Pb 208		896057	1224.6282	0	0.0000
Bi 209		399395	4516.0317	0	0.0000
Cl 35		217	17.1563	0	0.0000
Ca 44		117	7.8101	0	0.0000
Ti 47		375	8.5436	0	0.0000
Br 81		3981	64.1061	0	0.0000
Kr 83		21	3.7859	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66	]	0.3860	4.555E-03	104.2358	104%	1.2388	ppb	1.1884
Ge 73	<	94464	301.0705				ions/sec	
As 75	]	0.3313	6.156E-03	99.7250	100%	1.8518	ppb	1.8569
Cd 111	]	0.0335	5.404E-03	10.9966	110%	1.7753	ppb	16.1440
In 115	<	171657	2.498E+04				ions/sec	
Pb 208	]	2.2435	3.066E-03	101.9011	102%	0.1394	ppb	0.1368
Bi 209	<	399395	4516.0317				ions/sec	
Cl 35		217	17.1563					
Ca 44		117	7.8101					
Ti 47		375	8.5436					
Br 81		3981	64.1061					
Kr 83		21	3.7859					

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QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCB
Sample Description:	
Sample Type:	Sample
Sequence Number:	057
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	13:25:33 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	136	19.2631	0	0.0000
Ge 73	97645	1701.1660	0	0.0000
As 75	-24	27.6982	0	0.0000
Cd 111	9	4.6654	0	0.0000
In 115	192220	4477.4185	0	0.0000
Pb 208	979	225.1870	0	0.0000
Bi 209	414172	6639.0762	0	0.0000
Cl 35	230	26.1027	0	0.0000
Ca 44	19	2.5166	0	0.0000
Ti 47	331	7.5507	0	0.0000
Br 81	3979	67.0131	0	0.0000
Kr 83	24	1.0000	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	]	1.390E-03	1.973E-04	-0.3668 ok	0.0536	ppb	14.6250
Ge 73	<	97645	1701.1660			ions/sec	
As 75	]	-2.466E-04	2.837E-04	-0.0107 ok	0.0853	ppb	795.9207
Cd 111	]	4.806E-05	2.427E-05	-5.649E-03 ok	7.974E-03	ppb	141.1647
In 115	<	192220	4477.4185			ions/sec	
Pb 208	]	2.364E-03	5.437E-04	0.0205 ok	0.0247	ppb	120.7789
Bi 209	<	414172	6639.0762			ions/sec	
Cl 35		230	26.1027				
Ca 44		19	2.5166				
Ti 47		331	7.5507				
Br 81		3979	67.0131				
Kr 83		24	1.0000				

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QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCV
Sample Description:	M13-20
Sample Type:	Sample
Sequence Number:	065
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	14:12:21 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	36309	286.5237	0	0.0000
Ge 73	95797	217.8199	0	0.0000
As 75	31059	348.3693	0	0.0000
Cd 111	5637	79.6505	0	0.0000
In 115	191007	907.9931	0	0.0000
Pb 208	890838	7700.2578	0	0.0000
Bi 209	406618	1589.0660	0	0.0000
Cl 35	220	8.1849	0	0.0000
Ca 44	126	16.4622	0	0.0000
Ti 47	391	43.2490	0	0.0000
Br 81	4052	17.0345	0	0.0000
Kr 83	22	4.3589	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		0.3790	2.991E-03	102.3275	102%	0.8134	ppb	0.7949
Ge 73	<	95797	217.8199				ions/sec	
As 75		0.3242	3.637E-03	97.5896	98%	1.0939	ppb	1.1209
Cd 111		0.0295	4.170E-04	9.6752	97%	0.1370	ppb	1.4160
In 115	<	191007	907.9931				ions/sec	
Pb 208		2.1908	0.0189	99.5060	100%	0.8609	ppb	0.8651
Bi 209	<	406618	1589.0660				ions/sec	
Cl 35		220	8.1849					
Ca 44		126	16.4622					
Ti 47		391	43.2490					
Br 81		4052	17.0345					
Kr 83		22	4.3589					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCB
Sample Description:	
Sample Type:	Sample
Sequence Number:	066
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	14:15:29 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	115	1.6749	0	0.0000
Ge 73	97449	752.6320	0	0.0000
As 75	-34	37.2877	0	0.0000
Cd 111	9	3.1248	0	0.0000
In 115	194032	820.2831	0	0.0000
Pb 208	642	66.8784	0	0.0000
Bi 209	414424	4336.8735	0	0.0000
Cl 35	213	7.0945	0	0.0000
Ca 44	23	1.5275	0	0.0000
Ti 47	332	10.4081	0	0.0000
Br 81	4042	31.1106	0	0.0000
Kr 83	20	7.0238	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66	<	1.183E-03	1.719E-05	-0.4230	OK	4.674E-03	ppb	1.1050
Ge 73		97449	752.6320				ions/sec	
As 75		-3.478E-04	3.826E-04	-0.0412	OK	0.1151	ppb	279.6685
Cd 111	<	4.780E-05	1.610E-05	-5.734E-03	OK	5.291E-03	ppb	92.2690
In 115		194032	820.2831				ions/sec	
Pb 208	<	1.548E-03	1.614E-04	-0.0166	OK	7.336E-03	ppb	44.0688
Bi 209		414424	4336.8735				ions/sec	
Cl 35		213	7.0945					
Ca 44		23	1.5275					
Ti 47		332	10.4081					
Br 81		4042	31.1106					
Kr 83		20	7.0238					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	MB
Sample Description:	1/11
Sample Type:	Sample
Sequence Number:	067
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	14:19:24 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	1854	86.2977	0	0.0000
Ge 73	77554	637.9171	0	0.0000
As 75	-21	19.2858	0	0.0000
Cd 111	31	7.1094	0	0.0000
In 115	182098	148.4011	0	0.0000
Pb 208	7121	61.0161	0	0.0000
Bi 209	450917	4527.3579	0	0.0000
Cl 35	261	24.5020	0	0.0000
Ca 44	1170	48.8848	0	0.0000
Ti 47	656	9.0742	0	0.0000
Br 81	3669	105.4799	0	0.0000
Kr 83	16	0.5774	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0239	1.113E-03	5.7561	0.3026	ppb	5.2571
Ge 73	<	77554	637.9171			ions/sec	
As 75		-2.743E-04	2.487E-04	-0.0190 OK	0.0748	ppb	392.6971
Cd 111		1.717E-04	3.904E-05	0.0350 OK	0.0128	ppb	36.6723
In 115	<	182098	148.4011			ions/sec	
Pb 208		0.0158	1.353E-04	0.6309 OK	6.151E-03	ppb	0.9750
Bi 209	<	450917	4527.3579			ions/sec	
Cl 35		261	24.5020				
Ca 44		1170	48.8848				
Ti 47		656	9.0742				
Br 81		3669	105.4799				
Kr 83		16	0.5774				

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QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	SRM 0287
Sample Description:	1/11 (0.25:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	068
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	14:22:44 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	3733	42.8583	0	0.0000
Ge 73	97269	378.3282	0	0.0000
As 75	17203	159.4662	0	0.0000
Cd 111	1276	27.8095	0	0.0000
In 115	195340	652.9036	0	0.0000
Pb 208	104184	176.1857	0	0.0000
Bi 209	437013	6324.5229	0	0.0000
Cl 35	226	25.7168	0	0.0000
Ca 44	19773	242.7937	0	0.0000
Ti 47	541	28.0254	0	0.0000
Br 81	4075	49.6462	0	0.0000
Kr 83	22	2.8868	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0384	4.406E-04	9.6913	193 ok 0.1198	ppb	1.2364
Ge 73	<	97269	378.3282			ions/sec	
As 75		0.1769	1.639E-03	53.2647	1065 ok 0.4931	ppb	0.9258
Cd 111		6.534E-03	1.424E-04	2.1253	420 ok ~~442~~ mk 2-25-99 0.0468	ppb	2.2008
In 115	<	195340	652.9036			ions/sec	
Pb 208		0.2384	4.032E-04	10.7503	215 ok 0.0183	ppb	0.1705
Bi 209	<	437013	6324.5229			ions/sec	
Cl 35		226	25.7168				
Ca 44		19773	242.7937				
Ti 47		541	28.0254				
Br 81		4075	49.6462				
Kr 83		22	2.8868				

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QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCV
Sample Description:	M13-20
Sample Type:	Sample
Sequence Number:	077
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	14:58:05 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	35017	421.9054	0	0.0000
Ge 73	95355	350.5840	0	0.0000
As 75	30082	170.2606	0	0.0000
Cd 111	5439	91.5621	0	0.0000
In 115	190259	1068.7262	0	0.0000
Pb 208	869627	7615.2002	0	0.0000
Bi 209	405373	5284.9375	0	0.0000
Cl 35	195	17.3495	0	0.0000
Ca 44	117	7.8104	0	0.0000
Ti 47	375	17.1566	0	0.0000
Br 81	4096	77.7611	0	0.0000
Kr 83	27	8.3865	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		0.3672	4.425E-03	99.1201	99%	1.2032	ppb	1.2139
Ge 73	<	95355	350.5840				ions/sec	
As 75		0.3155	1.786E-03	94.9594	95%	0.5371	ppb	0.5656
Cd 111		0.0286	4.812E-04	9.3702	94%	0.1581	ppb	1.6874
In 115	<	190259	1068.7262				ions/sec	
Pb 208		2.1453	0.0188	97.4332	97%	0.8540	ppb	0.8765
Bi 209	<	405373	5284.9375				ions/sec	
Cl 35		195	17.3495					
Ca 44		117	7.8104					
Ti 47		375	17.1566					
Br 81		4096	77.7611					
Kr 83		27	8.3865					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCB
Sample Description:	
Sample Type:	Sample
Sequence Number:	078
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	15:00:48 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	475	8.7263	0	0.0000
Ge 73	94052	481.8582	0	0.0000
As 75	-27	20.4394	0	0.0000
Cd 111	11	1.9699	0	0.0000
In 115	187574	814.5848	0	0.0000
Pb 208	1003	181.1520	0	0.0000
Bi 209	406736	4795.5273	0	0.0000
Cl 35	197	21.9319	0	0.0000
Ca 44	22	3.2145	0	0.0000
Ti 47	326	4.1622	0	0.0000
Br 81	3943	19.8148	0	0.0000
Kr 83	18	2.3094	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66	]	5.051E-03	9.278E-05	0.6287	OK	0.0252	ppb	4.0135
Ge 73	<	94052	481.8582				ions/sec	
As 75	]	-2.867E-04	2.173E-04	-0.0228	OK	0.0654	ppb	286.9902
Cd 111	]	5.648E-05	1.050E-05	-2.883E-03	OK	3.450E-03	ppb	119.6900
In 115	<	187574	814.5848				ions/sec	
Pb 208	]	2.465E-03	4.454E-04	0.0250	OK	0.0202	ppb	80.8452
Bi 209	<	406736	4795.5273				ions/sec	
Cl 35		197	21.9319					
Ca 44		22	3.2145					
Ti 47		326	4.1622					
Br 81		3943	19.8148					
Kr 83		18	2.3094					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCV
Sample Description:	M13-20
Sample Type:	Sample
Sequence Number:	089
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	15:41:05 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	35579	474.8054	0	0.0000
Ge 73	96263	1099.5972	0	0.0000
As 75	30826	517.2247	0	0.0000
Cd 111	5610	63.5855	0	0.0000
In 115	191834	917.7413	0	0.0000
Pb 208	870391	3688.3337	0	0.0000
Bi 209	401701	3260.6995	0	0.0000
Cl 35	179	4.0001	0	0.0000
Ca 44	129	14.0120	0	0.0000
Ti 47	373	18.0279	0	0.0000
Br 81	4076	62.5504	0	0.0000
Kr 83	25	8.5440	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66	]	0.3696	4.932E-03	99.7668	100%	1.3413	ppb	1.3445
Ge 73	<	96263	1099.5972				ions/sec	
As 75	]	0.3202	5.373E-03	96.3883	96%	1.6162	ppb	1.6768
Cd 111	]	0.0292	3.315E-04	9.5872	96%	0.1089	ppb	1.1359
In 115	<	191834	917.7413				ions/sec	
Pb 208	]	2.1668	9.182E-03	98.4110	98%	0.4174	ppb	0.4241
Bi 209	<	401701	3260.6995				ions/sec	
Cl 35		179	4.0001					
Ca 44		129	14.0120					
Ti 47		373	18.0279					
Br 81		4076	62.5504					
Kr 83		25	8.5440					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCB
Sample Description:	
Sample Type:	Sample
Sequence Number:	090
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	15:43:52 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	468	23.2022	0	0.0000
Ge 73	95466	356.4932	0	0.0000
As 75	-28	12.9265	0	0.0000
Cd 111	8	1.5891	0	0.0000
In 115	193709	810.5214	0	0.0000
Pb 208	961	136.0345	0	0.0000
Bi 209	409291	7509.4023	0	0.0000
Cl 35	177	1.7313	0	0.0000
Ca 44	27	4.3589	0	0.0000
Ti 47	339	31.2627	0	0.0000
Br 81	4156	58.8250	0	0.0000
Kr 83	23	6.6583	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66	]	4.898E-03	2.430E-04	0.5872	OK	0.0661	ppb	11.2554
Ge 73	<	95466	356.4932				ions/sec	
As 75	]	-2.959E-04	1.354E-04	-0.0255	OK	0.0407	ppb	159.5088
Cd 111	]	4.095E-05	8.204E-06	-7.985E-03	OK	2.695E-03	ppb	33.7561
In 115	<	193709	810.5214				ions/sec	
Pb 208	]	2.348E-03	3.324E-04	0.0197	OK	0.0151	ppb	76.5569
Bi 209	<	409291	7509.4023				ions/sec	
Cl 35		177	1.7313					
Ca 44		27	4.3589					
Ti 47		339	31.2627					
Br 81		4156	58.8250					
Kr 83		23	6.6583					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	99-A816
Sample Description:	27907 (0.5:50)(1:10)
Sample Type:	Sample
Sequence Number:	093
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	15:55:04 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	12837	285.5425	0	0.0000
Ge 73	94103	614.4324	0	0.0000
As 75	10708	178.4762	0	0.0000
Cd 111	674	33.2594	0	0.0000
In 115	191435	234.4192	0	0.0000
Pb 208	1176183	1017.2885	0	0.0000
Bi 209	409356	5159.7642	0	0.0000
Cl 35	196	12.3426	0	0.0000
Ca 44	1516	14.4571	0	0.0000
Ti 47	4836	101.0008	0	0.0000
Br 81	4188	83.9291	0	0.0000
Kr 83	23	5.2915	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		0.1364	3.034E-03	36.3512	360	0.8252	ppb	2.2700
Ge 73	<	94103	614.4324				ions/sec	
As 75		0.1138	1.897E-03	34.2928	340	0.5705	ppb	1.6636
Cd 111		3.522E-03	1.737E-04	1.1356	"	0.0571	ppb	5.0266
In 115	<	191435	234.4192				ions/sec	
Pb 208		2.8733	2.485E-03	130.5271	1300	0.1130	ppb	0.0865
Bi 209	<	409356	5159.7642				ions/sec	
Cl 35		196	12.3426					
Ca 44		1516	14.4571					
Ti 47		4836	101.0008					
Br 81		4188	83.9291					
Kr 83		23	5.2915					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	99-A816 MS PDS
Sample Description:	27907 (0.5:50)(0.1:10) 0.1ML MP1208/09 10ML
Sample Type:	Sample
Sequence Number:	094
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	15:59:05 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	29647	363.4340	0	0.0000
Ge 73	93945	1416.5070	0	0.0000
As 75	18620	377.1226	0	0.0000
Cd 111	15133	214.9248	0	0.0000
In 115	190847	510.9006	0	0.0000
Pb 208	1328917	9019.4375	0	0.0000
Bi 209	394591	930.1844	0	0.0000
Cl 35	186	12.2882	0	0.0000
Ca 44	59678	416.1580	0	0.0000
Ti 47	124553	425.8135	0	0.0000
Br 81	4162	26.6230	0	0.0000
Kr 83	34	5.5076	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		0.3156	3.869E-03	85.0761	97%	1.0520	ppb	1.2366
Ge 73	<	93945	1416.5070				ions/sec	
As 75		0.1982	4.014E-03	59.6846	102%	1.2075	ppb	2.0232
Cd 111		0.0793	1.126E-03	26.0298	100%	0.3700	ppb	1.4214
In 115	<	190847	510.9006				ions/sec	
Pb 208		3.3678	0.0229	153.0101	90%	1.0391	ppb	0.6791
Bi 209	<	394591	930.1844				ions/sec	
Cl 35		186	12.2882					
Ca 44		59678	416.1580					
Ti 47		124553	425.8135					
Br 81		4162	26.6230					
Kr 83		34	5.5076					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	99-A816 MSD PDS
Sample Description:	27907 (0.5:50)(0.1:10) 0.1ML MP1208/09 10ML
Sample Type:	Sample
Sequence Number:	095
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	16:03:56 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	30404	490.9106	0	0.0000
Ge 73	91631	776.7722	0	0.0000
As 75	18741	240.5488	0	0.0000
Cd 111	15432	213.5636	0	0.0000
In 115	187461	1440.7698	0	0.0000
Pb 208	1349640	7765.7046	0	0.0000
Bi 209	382911	1812.0571	0	0.0000
Cl 35	213	9.2915	0	0.0000
Ca 44	60241	957.9832	0	0.0000
Ti 47	125083	1307.2090	0	0.0000
Br 81	4229	35.7728	0	0.0000
Kr 83	29	2.3094	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev. %, RPD			% RSD
Zn 66		0.3318	5.357E-03	89.4875	5.1%	1.4569	ppb	1.6281
Ge 73	<	91631	776.7722				ions/sec	
As 75		0.2045	2.625E-03	61.5874	3.6%	0.7897	ppb	1.2822
Cd 111		0.0823	1.139E-03	27.0245	3.3%	0.3743	ppb	1.3850
In 115	<	187461	1440.7698				ions/sec	
Pb 208		3.5247	0.0203	160.1402	4.6%	0.9219	ppb	0.5757
Bi 209	<	382911	1812.0571				ions/sec	
Cl 35		213	9.2915					
Ca 44		60241	957.9832					
Ti 47		125083	1307.2090					
Br 81		4229	35.7728					
Kr 83		29	2.3094					

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QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCV
Sample Description:	M13-20
Sample Type:	Sample
Sequence Number:	096
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	16:11:12 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	35084	94.3418	0	0.0000
Ge 73	97369	416.8734	0	0.0000
As 75	30331	288.6532	0	0.0000
Cd 111	5710	65.8194	0	0.0000
In 115	198322	802.2691	0	0.0000
Pb 208	874757	146.3007	0	0.0000
Bi 209	418151	793.5776	0	0.0000
Cl 35	185	16.2584	0	0.0000
Ca 44	130	10.0665	0	0.0000
Ti 47	406	12.9999	0	0.0000
Br 81	4238	18.5885	0	0.0000
Kr 83	21	6.9282	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		0.3603	9.689E-04	97.2424	97%	0.2635	ppb	0.2710
Ge 73	<	97369	416.8734				ions/sec	
As 75		0.3115	2.965E-03	93.7666	94%	0.8917	ppb	0.9510
Cd 111		0.0288	3.319E-04	9.4372	94%	0.1090	ppb	1.1554
In 115	<	198322	802.2691				ions/sec	
Pb 208		2.0920	3.499E-04	95.0109	95%	0.0159	ppb	0.0167
Bi 209	<	418151	793.5776				ions/sec	
Cl 35		185	16.2584					
Ca 44		130	10.0665					
Ti 47		406	12.9999					
Br 81		4238	18.5885					
Kr 83		21	6.9282					

000069

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599A
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCB
Sample Description:	
Sample Type:	Sample
Sequence Number:	097
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	16:14:01 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	483	9.4284	0	0.0000
Ge 73	94858	1088.5022	0	0.0000
As 75	1	20.3199	0	0.0000
Cd 111	10	1.5850	0	0.0000
In 115	192039	774.0730	0	0.0000
Pb 208	1042	181.4863	0	0.0000
Bi 209	402531	2017.7284	0	0.0000
Cl 35	199	10.0663	0	0.0000
Ca 44	22	4.9329	0	0.0000
Ti 47	352	27.4660	0	0.0000
Br 81	4188	15.8503	0	0.0000
Kr 83	18	5.5076	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		5.088E-03	9.940E-05	0.6387	OK	0.0270	ppb	4.2320
Ge 73	<	94858	1088.5022				ions/sec	
As 75		1.526E-05	2.142E-04	0.0681	OK	0.0644	ppb	94.6862
Cd 111		5.267E-05	8.253E-06	-4.137E-03	OK	2.712E-03	ppb	65.5491
In 115	<	192039	774.0730				ions/sec	
Pb 208		2.588E-03	4.509E-04	0.0306	OK	0.0205	ppb	66.8805
Bi 209	<	402531	2017.7284				ions/sec	
Cl 35		199	10.0663					
Ca 44		22	4.9329					
Ti 47		352	27.4660					
Br 81		4188	15.8503					
Kr 83		18	5.5076					

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Acculabs Inc. F8625 Rev. B

Date: 2.25.99

AL # 27907 PART

Analyst: M.A.

ICP-MS COVER SHEET
Perkin-Elmer/Sciex Elan 5000 Control #I073
Procedure #I09029___ EPA Method 200.8
Procedure #I09035 A SW846 Method 6020

Std. Prep Log #	Expiration Date	Blank
		Std#1
M50506	3.2.99	10.0 ppb As, Ba, Be, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn 1.0 ppb, Ag, Cd, Th, U
M50507	3.2.99	Std#2 200.0 ppb As, Ba, Be, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn 20.0 ppb, Ag, Cd, Th, U
-	-	MSG Std#1 10 ppb Ag, As, Bi, Cd, Cu, Pb, Sb, Sn
-	-	MSG Std#2 200 ppb Ag, As, Bi, Cd, Cu, Pb, Sb, Sn
-	-	LiCs Std#1 10 ppb
-	-	LiCs Std#2 200 ppb
-	-	Other:
		Calibration Verification
M13.20	3.10.99	ICP-MS CV 100 ppb As,Ba,Be, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se,Th, Tl, V, Zn 10 ppb, Ag, Cd, U
-	-	MSG-CV 100 ppb Ag, As, Bi, Cd, Cu, Pb, Sb, Sn
-	-	Other:

Method Detection Limits (μ/L)

Ag	0.5	Bi	1.0	Cs	1.0	Mo	1.0	Se	5.0	U	0.1
As	1.0	Cd	0.1	Cu	1.0	Ni	5.0	Sn	1.0	V	5.0
Ba	1.0	Co	0.1	Li	5.0	Pb	1.0	Th	0.5	Zn	5.0
Ba	1.0	Cr	1.0	Mn	1.0	Sb	1.0	Tl	1.0		___

Reviewed & Approved: MG

Sample Entry Report

Data Set: 22599B
Data Set Description:

Sample Id	Type	Seq #	AS Pos.
STD0	Standard	1	1
STD1	Standard	2	1
STD2	Standard	3	1
ICV M1320	Sample	4	1
ICB	Sample	5	1
ICS A	Sample	6	1
ICS AB	Sample	7	1
T-MB 01-11	Sample	8	1
T-SRM 0287	Sample	9	1
T-SRM 0287	Sample	10	1
STD0	Standard	11	1
STD1	Standard	12	1
STD2	Standard	13	1
ICV M1320	Sample	14	1
ICB	Sample	15	1
ICS A	Sample	16	1
ICS AB	Sample	17	1
T-MB 01/11	Sample	18	1
T-SRM 0287	Sample	19	1
T-27907-817	Sample	20	1
T-817 MD	Sample	21	1
T-819	Sample	22	1
T-818 DIL. TEST	Sample	23	1
T-818 DIL.TEST	Sample	24	1
T-818 DIL.TEST	Sample	25	1
CCV M1320	Sample	26	1
CCB	Sample	27	1
T-819	Sample	28	1
T-820	Sample	29	1
T-821	Sample	30	1
T-822	Sample	31	1
T-823	Sample	32	1
T-824	Sample	33	1
T-825	Sample	34	1
T-826	Sample	35	1
T-827	Sample	36	1
T-827 MS PDS	Sample	37	1
CCV M1320	Sample	38	1
CCV M1320	Sample	39	1
STD0	Standard	40	1
STD1	Standard	41	1
STD2	Standard	42	1
CCV M1320	Sample	43	1
CCB	Sample	44	1
T-819	Sample	45	1
T-820	Sample	46	1
T-821	Sample	47	1
T-822	Sample	48	1
T-823	Sample	49	1
CCV M1320	Sample	50	1
CCB	Sample	51	1
T-824	Sample	52	1
T-825	Sample	53	1
T-826	Sample	54	1
T-827	Sample	55	1
T-827 MS PDS	Sample	56	1
T-827 MSD PDS	Sample	57	1
CCV M1320	Sample	58	1
CCB	Sample	59	1
T-MB 02/03	Sample	60	1
T-SRM 0287	Sample	61	1
T-828	Sample	62	1
T-828 MD	Sample	63	1
T-829	Sample	64	1
T-830	Sample	65	1
T-831	Sample	66	1
T-832	Sample	67	1
CCV M1320	Sample	68	1
CCB	Sample	69	1
T-834	Sample	70	1
T-834 DIL.TEST	Sample	71	1
T-835	Sample	72	1
T-836	Sample	73	1
T-837	Sample	74	1
T-838	Sample	75	1
T-839	Sample	76	1

Sample Entry Report

Sample Id	Type	Seq #	AS Pos.
T-840	Sample	77	1
T-841	Sample	78	1
CCV M1320	Sample	79	1
CCB	Sample	80	1
T-842	Sample	81	1
T-843	Sample	82	1
T-844	Sample	83	1
T-845	Sample	84	1
T-846	Sample	85	1
T-846 MS PDS	Sample	86	1
T-846 MSD PDS	Sample	87	1
T-846	Sample	88	1
T-846 MS PDS	Sample	89	1
T-846 MSD PDS	Sample	90	1
CCV M1320	Sample	91	1
CCB	Sample	92	1

Parameter Entry Report

File name: ISSI
Description:

Sweeps/Reading:	40
Readings/Replicate:	1
Number of Replicates:	3
Points Across Peak:	1
Resolution:	Normal
Scanning Mode:	Peak Hop
Baseline Time (ms):	0
Transfer Frequency:	Replicate
Polarity:	+

Element/ Mass	Mass	Internal Standard	Times (ms): Replicate	Dwell	OmniRange
Zn	66		1000	25	0.0
Ge	73	<	1000	25	0.0
As	75		1000	25	0.0
Cd	111		1000	25	0.0
In	115	<	1000	25	0.0
Pb	208		1000	25	0.0
Bi	209	<	1000	25	0.0
Cl	35		1000	25	29.5
Ca	44		1000	25	20.0
Ti	47		1000	25	0.0
Br	81		1000	25	0.0
Kr	83		1000	25	0.0

Elemental Equations:

Zn 66 = Zn 66 - 0.003 * Ti 47
Ge 73 = Ge 73
As 75 = As 75 - 3.033 * mass 77.000 + 1.334 * mass 82.000
Cd 111 = Cd 111 - 0.00118 * Mo 95
In 115 = In 115 - 0.01457 * Sn 118
Pb 208 = Pb 208 + 1 * mass 206.000 + 1 * mass 207.000
Bi 209 = Bi 209
Cl 35 = Cl 35
Ca 44 = Ca 44
Ti 47 = Ti 47
Br 81 = Br 81
Kr 83 = Kr 83

Manual Settings:

Plasma Flow:	10 L/min	RF Power:	1080 Watts
Nebulizer Flow:	0.933 L/min	CEM Voltage:	-3.3 kV
Auxiliary Flow:	1 L/min	Sample Uptake:	1 mL/min

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	STD0
Sample Description:	
Sample Type:	Standard
Sequence Number:	001
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	17:25:17 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	512	3.0677	0	0.0000
Ge 73	97049	66.6189	0	0.0000
As 75	-16	19.4511	0	0.0000
Cd 111	9	3.5421	0	0.0000
In 115	189042	1811.2030	0	0.0000
Pb 208	238	6.7537	0	0.0000
Bi 209	467754	2090.9153	0	0.0000
Cl 35	131	20.6480	0	0.0000
Ca 44	13	4.0415	0	0.0000
Ti 47	355	5.0023	0	0.0000
Br 81	4297	69.5655	0	0.0000
Kr 83	17	1.7321	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		5.279E-03	3.161E-05			ppb	
Ge 73	<	97049	66.6189			ions/sec	
As 75		-1.697E-04	2.004E-04			ppb	
Cd 111		4.601E-05	1.874E-05			ppb	
In 115	<	189042	1811.2030			ions/sec	
Pb 208		5.081E-04	1.444E-05			ppb	
Bi 209	<	467754	2090.9153			ions/sec	
Cl 35		131	20.6480				
Ca 44		13	4.0415				
Ti 47		355	5.0023				
Br 81		4297	69.5655				
Kr 83		17	1.7321				

		Entered Conc.
Zn 66		0.0000
Ge 73	<	
As 75		0.0000
Cd 111		0.0000
In 115	<	
Pb 208		0.0000
Bi 209	<	
Cl 35		
Ca 44		
Ti 47		
Br 81		
Kr 83		

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	STD1
Sample Description:	
Sample Type:	Standard
Sequence Number:	002
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	17:27:27 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	4106	133.4389	0	0.0000
Ge 73	94808	878.6371	0	0.0000
As 75	3175	61.3370	0	0.0000
Cd 111	561	26.8183	0	0.0000
In 115	185570	1307.2123	0	0.0000
Pb 208	104806	353.7480	0	0.0000
Bi 209	460146	867.5907	0	0.0000
Cl 35	130	15.6952	0	0.0000
Ca 44	23	3.7859	0	0.0000
Ti 47	385	21.9629	0	0.0000
Br 81	4316	127.3737	0	0.0000
Kr 83	9	1.5275	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	<	0.0433	1.407E-03	10.0000	0.3701	ppb	3.7007
Ge 73		94808	878.6371			ions/sec	
As 75		0.0335	6.470E-04	10.0000	0.1922	ppb	1.9223
Cd 111	<	3.021E-03	1.445E-04	1.0000	0.0486	ppb	4.8581
In 115		185570	1307.2123			ions/sec	
Pb 208	<	0.2278	7.688E-04	10.0000	0.0338	ppb	0.3383
Bi 209		460146	867.5907			ions/sec	
Cl 35		130	15.6952				
Ca 44		23	3.7859				
Ti 47		385	21.9629				
Br 81		4316	127.3737				
Kr 83		9	1.5275				

		Entered Conc.
Zn 66	<	10.0000
Ge 73		
As 75		10.0000
Cd 111	<	1.0000
In 115		
Pb 208	<	10.0000
Bi 209		
Cl 35		
Ca 44		
Ti 47		
Br 81		
Kr 83		

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QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	STD2
Sample Description:	
Sample Type:	Standard
Sequence Number:	003
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	17:29:47 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	73485	453.4096	0	0.0000
Ge 73	95330	411.3423	0	0.0000
As 75	61341	1186.8054	0	0.0000
Cd 111	10920	129.6138	0	0.0000
In 115	186117	1059.3811	0	0.0000
Pb 208	2019505	3.705E+04	0	0.0000
Bi 209	456351	8428.7051	0	0.0000
Cl 35	142	18.0279	0	0.0000
Ca 44	18	4.0415	0	0.0000
Ti 47	369	11.2401	0	0.0000
Br 81	4344	80.6614	0	0.0000
Kr 83	29	4.5092	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.7708	4.756E-03	200.0017	1.2423	ppb	0.6212
Ge 73	<	95330	411.3423			ions/sec	
As 75		0.6435	0.0124	199.9880	3.8727	ppb	1.9365
Cd 111		0.0587	6.964E-04	19.9996	0.2377	ppb	1.1883
In 115	<	186117	1059.3811			ions/sec	
Pb 208		4.4253	0.0812	199.9929	3.6722	ppb	1.8362
Bi 209	<	456351	8428.7051			ions/sec	
Cl 35		142	18.0279				
Ca 44		18	4.0415				
Ti 47		369	11.2401				
Br 81		4344	80.6614				
Kr 83		29	4.5092				

		Entered Conc.
Zn 66		200.0000
Ge 73	<	
As 75		200.0000
Cd 111		20.0000
In 115	<	
Pb 208		200.0000
Bi 209	<	
Cl 35		
Ca 44		
Ti 47		
Br 81		
Kr 83		

000077

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	ICV M1320
Sample Description:	
Sample Type:	Sample
Sequence Number:	004
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	17:32:27 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	37187	389.6342	0	0.0000
Ge 73	94467	139.2760	0	0.0000
As 75	30332	328.4873	0	0.0000
Cd 111	5342	75.6705	0	0.0000
In 115	183870	1074.7998	0	0.0000
Pb 208	1011940	8692.8672	0	0.0000
Bi 209	452278	7171.8110	0	0.0000
Cl 35	121	10.1491	0	0.0000
Ca 44	69	8.5050	0	0.0000
Ti 47	384	22.5022	0	0.0000
Br 81	4272	58.7735	0	0.0000
Kr 83	20	4.9329	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.3937	4.125E-03	101.4773 101%	1.0773	ppb	1.0617
Ge 73	<	94467	139.2760			ions/sec	
As 75		0.3211	3.477E-03	99.7070 100%	1.0817	ppb	1.0849
Cd 111		0.0291	4.115E-04	9.8917 99%	0.1404	ppb	1.4198
In 115	<	183870	1074.7998			ions/sec	
Pb 208		2.2374	0.0192	101.0371 101%	0.8693	ppb	0.8604
Bi 209	<	452278	7171.8110			ions/sec	
Cl 35		121	10.1491				
Ca 44		69	8.5050				
Ti 47		384	22.5022				
Br 81		4272	58.7735				
Kr 83		20	4.9329				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 22599B
Data Set Description:
Parameter File: ISSI

Sample ID: ICB
Sample Description:
Sample Type: Sample
Sequence Number: 005
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 17:34:54 Feb 25 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	493	16.9490	0	0.0000
Ge 73	93840	646.5805	0	0.0000
As 75	-11	12.1287	0	0.0000
Cd 111	13	3.9526	0	0.0000
In 115	183324	519.3035	0	0.0000
Pb 208	1854	387.4883	0	0.0000
Bi 209	451595	1.134E+04	0	0.0000
Cl 35	124	11.5903	0	0.0000
Ca 44	13	5.5678	0	0.0000
Ti 47	334	6.1102	0	0.0000
Br 81	4298	78.4705	0	0.0000
Kr 83	19	4.3589	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	<	5.258E-03	1.806E-04	0.0267 ok	0.0472	ppb	176.4657
Ge 73		93840	646.5805			ions/sec	
As 75		-1.217E-04	1.292E-04	-0.2138	0.0402	ppb	18.8080
Cd 111	<	6.878E-05	2.156E-05	3.854E-04	7.358E-03	ppb	1909.3213
In 115		183324	519.3035			ions/sec	
Pb 208	<	4.105E-03	8.580E-04	0.0269	0.0388	ppb	144.0171
Bi 209		451595	1.134E+04			ions/sec	
Cl 35		124	11.5903				
Ca 44		13	5.5678				
Ti 47		334	6.1102				
Br 81		4298	78.4705				
Kr 83		19	4.3589				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	ICS A
Sample Description:	S5753 (10:100)
Sample Type:	Sample
Sequence Number:	006
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	17:37:37 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	831	65.0039	0	0.0000
Ge 73	89664	836.4816	0	0.0000
As 75	-106	119.4778	0	0.0000
Cd 111	233	15.5899	0	0.0000
In 115	185394	1361.5594	0	0.0000
Pb 208	10585	56.7981	0	0.0000
Bi 209	376709	1376.6273	0	0.0000
Cl 35	6874	91.5664	0	0.0000
Ca 44	79457	710.0856	0	0.0000
Ti 47	442589	2034.0077	0	0.0000
Br 81	5283	93.0297	0	0.0000
Kr 83	156	15.0998	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	]	9.265E-03	7.250E-04	1.0733 ok	0.1894	ppb	17.6430
Ge 73	<	89664	836.4816			ions/sec	
As 75	]	-1.179E-03	1.333E-03	-0.5428	0.4145	ppb	76.3606
Cd 111	]	1.257E-03	8.409E-05	0.4060	0.0287	ppb	7.0675
In 115	<	185394	1361.5594			ions/sec	
Pb 208	]	0.0281	1.508E-04	1.1122	6.819E-03	ppb	0.6131
Bi 209	<	376709	1376.6273			ions/sec	
Cl 35		6874	91.5664				
Ca 44		79457	710.0856				
Ti 47		442589	2034.0077				
Br 81		5283	93.0297				
Kr 83		156	15.0998				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 22599B
Data Set Description:
Parameter File: ISSI

Sample ID: ICS AB
Sample Description: S5753 (10:100) S5745 (1:100)
Sample Type: Sample
Sequence Number: 007
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 17:40:47 Feb 25 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

		Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66		7513	60.0841	0	0.0000
Ge 73		88161	368.1565	0	0.0000
As 75		6641	86.2820	0	0.0000
Cd 111		10510	1769.9875	0	0.0000
In 115	>	164316	2.595E+04	0	0.0000
Pb 208		10134	120.5592	0	0.0000
Bi 209		355639	4215.0352	0	0.0000
Cl 35		6087	68.1174	0	0.0000
Ca 44		70268	424.2440	0	0.0000
Ti 47		415909	2048.4160	0	0.0000
Br 81		5223	103.3923	0	0.0000
Kr 83		140	9.2918	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	<]	0.0852	6.815E-04	20.9117 1052	0.1780	ppb	0.8513
Ge 73		88161	368.1565			ions/sec	
As 75		0.0753	9.787E-04	23.2553 1167	0.3044	ppb	1.3092
Cd 111	<]	0.0640	0.0108	21.8041 1092	3.6759	ppb	16.8588
In 115		164316	2.595E+04			ions/sec	
Pb 208	<]	0.0285	3.390E-04	1.1301	0.0153	ppb	1.3567
Bi 209		355639	4215.0352			ions/sec	
Cl 35		6087	68.1174				
Ca 44		70268	424.2440				
Ti 47		415909	2048.4160				
Br 81		5223	103.3923				
Kr 83		140	9.2918				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-MB 01-11
Sample Description:	
Sample Type:	Sample
Sequence Number:	008
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	17:44:41 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	3616	46.5286	0	0.0000
Ge 73	86467	1224.4457	0	0.0000
As 75	-14	20.6477	0	0.0000
Cd 111	28	3.5314	0	0.0000
In 115	176347	2181.6462	0	0.0000
Pb 208	9014	250.9123	0	0.0000
Bi 209	479686	1.249E+04	0	0.0000
Cl 35	161	15.5028	0	0.0000
Ca 44	181	12.7021	0	0.0000
Ti 47	1162	85.0552	0	0.0000
Br 81	4288	72.5367	0	0.0000
Kr 83	16	3.7859	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0418	5.381E-04	9.5759	0.1406	ppb	1.4678
Ge 73	<	86467	1224.4457			ions/sec	
As 75		-1.622E-04	2.388E-04	-0.2264	0.0743	ppb	32.8118
Cd 111		1.561E-04	2.003E-05	0.0302	6.834E-03	ppb	22.6438
In 115	<	176347	2181.6462			ions/sec	
Pb 208		0.0188	5.231E-04	0.6912	0.0237	ppb	3.4227
Bi 209	<	479686	1.249E+04			ions/sec	
Cl 35		161	15.5028				
Ca 44		181	12.7021				
Ti 47		1162	85.0552				
Br 81		4288	72.5367				
Kr 83		16	3.7859				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-SRM 0287
Sample Description:	(0.25:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	009
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	17:49:03 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	5066	203.8581	0	0.0000
Ge 73	93764	913.3324	0	0.0000
As 75	17347	154.7629	0	0.0000
Cd 111	1305	28.9395	0	0.0000
In 115	181815	1330.9768	0	0.0000
Pb 208	125158	1859.5062	0	0.0000
Bi 209	471852	7770.1104	0	0.0000
Cl 35	134	3.2149	0	0.0000
Ca 44	9145	126.7547	0	0.0000
Ti 47	590	19.0786	0	0.0000
Br 81	4479	67.1530	0	0.0000
Kr 83	19	1.7320	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0540	2.174E-03	12.7651	235 0.5679	ppb	4.4489
Ge 73	<	93764	913.3324			ions/sec	
As 75		0.1850	1.651E-03	57.3741	1147 0.5135	ppb	0.8949
Cd 111	<	7.178E-03	1.592E-04	2.4263	48 0.0543	ppb	2.2387
In 115		181815	1330.9768			ions/sec	
Pb 208	<	0.2652	3.941E-03	11.8381	237 0.1782	ppb	1.5056
Bi 209		471852	7770.1104			ions/sec	
Cl 35		134	3.2149				
Ca 44		9145	126.7547				
Ti 47		590	19.0786				
Br 81		4479	67.1530				
Kr 83		19	1.7320				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-SRM 0287
Sample Description:	(0.25:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	010
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	17:53:38 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	4928	52.4488	0	0.0000
Ge 73	93395	476.5510	0	0.0000
As 75	16521	65.6501	0	0.0000
Cd 111	1232	25.8514	0	0.0000
In 115	182454	516.4920	0	0.0000
Pb 208	118769	366.7557	0	0.0000
Bi 209	475293	783.0494	0	0.0000
Cl 35	130	7.0002	0	0.0000
Ca 44	8817	64.8703	0	0.0000
Ti 47	569	31.4332	0	0.0000
Br 81	4506	57.8725	0	0.0000
Kr 83	20	4.7258	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0528	5.616E-04	12.4357 DNF	0.1467	ppb	1.1796
Ge 73	<	93395	476.5510			ions/sec	
As 75		0.1769	7.029E-04	54.8509	0.2187	ppb	0.3987
Cd 111		6.751E-03	1.417E-04	2.2806	0.0484	ppb	2.1201
In 115	<	182454	516.4920			ions/sec	
Pb 208		0.2499	7.716E-04	11.1433	0.0349	ppb	0.3132
Bi 209	<	475293	783.0494			ions/sec	
Cl 35		130	7.0002				
Ca 44		8817	64.8703				
Ti 47		569	31.4332				
Br 81		4506	57.8725				
Kr 83		20	4.7258				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 22599B
Data Set Description:
Parameter File: ISSI

Sample ID: STD0
Sample Description:
Sample Type: Standard
Sequence Number: 011
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 17:59:12 Feb 25 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	521	17.2109	0	0.0000
Ge 73	95963	588.4795	0	0.0000
As 75	-53	21.9041	0	0.0000
Cd 111	10	4.9735	0	0.0000
In 115	183759	1125.7866	0	0.0000
Pb 208	257	12.2576	0	0.0000
Bi 209	455642	3943.7449	0	0.0000
Cl 35	137	9.5395	0	0.0000
Ca 44	18	4.6188	0	0.0000
Ti 47	358	33.7795	0	0.0000
Br 81	4453	80.6879	0	0.0000
Kr 83	21	7.0946	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	<	5.432E-03	1.793E-04			ppb	
Ge 73		95963	588.4795			ions/sec	
As 75		-5.562E-04	2.283E-04			ppb	
Cd 111	<	5.593E-05	2.707E-05			ppb	
In 115		183759	1125.7866			ions/sec	
Pb 208	<	5.633E-04	2.690E-05			ppb	
Bi 209		455642	3943.7449			ions/sec	
Cl 35		137	9.5395				
Ca 44		18	4.6188				
Ti 47		358	33.7795				
Br 81		4453	80.6879				
Kr 83		21	7.0946				

		Entered Conc.
Zn 66	<	0.0000
Ge 73		
As 75		0.0000
Cd 111	<	0.0000
In 115		
Pb 208	<	0.0000
Bi 209		
Cl 35		
Ca 44		
Ti 47		
Br 81		
Kr 83		

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QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	STD1
Sample Description:	
Sample Type:	Standard
Sequence Number:	012
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	18:01:19 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	4137	120.5146	0	0.0000
Ge 73	93172	1384.8367	0	0.0000
As 75	3081	77.9832	0	0.0000
Cd 111	584	26.3989	0	0.0000
In 115	179957	2414.0461	0	0.0000
Pb 208	105909	1464.0309	0	0.0000
Bi 209	445248	3438.0002	0	0.0000
Cl 35	121	14.7310	0	0.0000
Ca 44	21	6.0828	0	0.0000
Ti 47	367	1.7288	0	0.0000
Br 81	4400	58.1081	0	0.0000
Kr 83	24	7.5056	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	<	0.0444	1.293E-03	10.0000	0.3319	ppb	3.3193
Ge 73		93172	1384.8367			ions/sec	
As 75		0.0331	8.370E-04	10.0000	0.2490	ppb	2.4895
Cd 111	<	3.247E-03	1.467E-04	1.0000	0.0460	ppb	4.5965
In 115		179957	2414.0461			ions/sec	
Pb 208	<	0.2379	3.288E-03	10.0000	0.1386	ppb	1.3856
Bi 209		445248	3438.0002			ions/sec	
Cl 35		121	14.7310				
Ca 44		21	6.0828				
Ti 47		367	1.7288				
Br 81		4400	58.1081				
Kr 83		24	7.5056				

		Entered Conc.
Zn 66	<	10.0000
Ge 73		
As 75		10.0000
Cd 111	<	1.0000
In 115		
Pb 208	<	10.0000
Bi 209		
Cl 35		
Ca 44		
Ti 47		
Br 81		
Kr 83		

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 22599B
Data Set Description:
Parameter File: ISSI

Sample ID: STD2
Sample Description:
Sample Type: Standard
Sequence Number: 013
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 18:03:32 Feb 25 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	72381	555.7665	0	0.0000
Ge 73	95898	660.9750	0	0.0000
As 75	60320	443.3902	0	0.0000
Cd 111	10850	134.8764	0	0.0000
In 115	187793	975.9855	0	0.0000
Pb 208	2013303	5855.0547	0	0.0000
Bi 209	469000	2765.1289	0	0.0000
Cl 35	111	5.2915	0	0.0000
Ca 44	15	2.0000	0	0.0000
Ti 47	361	17.0982	0	0.0000
Br 81	4380	95.2414	0	0.0000
Kr 83	27	10.1489	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.7548	5.795E-03	199.9895	1.5483	ppb	0.7742
Ge 73	<	95898	660.9750			ions/sec	
As 75		0.6290	4.624E-03	199.9821	1.4712	ppb	0.7357
Cd 111		0.0578	7.182E-04	19.9972	0.2495	ppb	1.2476
In 115	<	187793	975.9855			ions/sec	
Pb 208		4.2928	0.0125	199.9722	0.5832	ppb	0.2916
Bi 209	<	469000	2765.1289			ions/sec	
Cl 35		111	5.2915				
Ca 44		15	2.0000				
Ti 47		361	17.0982				
Br 81		4380	95.2414				
Kr 83		27	10.1489				

		Entered Conc.
Zn 66		200.0000
Ge 73	<	
As 75		200.0000
Cd 111		20.0000
In 115	<	
Pb 208		200.0000
Bi 209	<	
Cl 35		
Ca 44		
Ti 47		
Br 81		
Kr 83		

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	ICV M1320
Sample Description:	
Sample Type:	Sample
Sequence Number:	014
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	18:05:46 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	36496	571.8558	0	0.0000
Ge 73	94327	672.4686	0	0.0000
As 75	29896	337.3980	0	0.0000
Cd 111	5364	26.1581	0	0.0000
In 115	183817	844.9396	0	0.0000
Pb 208	992415	8486.3271	0	0.0000
Bi 209	455296	1939.5952	0	0.0000
Cl 35	125	9.2918	0	0.0000
Ca 44	65	10.8167	0	0.0000
Ti 47	368	9.2924	0	0.0000
Br 81	4383	111.1061	0	0.0000
Kr 83	20	1.0000	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		0.3869	6.062E-03	101.7155	101%	1.6196	ppb	1.5923
Ge 73	<	94327	672.4686				ions/sec	
As 75		0.3169	3.577E-03	100.6856	101%	1.1382	ppb	1.1304
Cd 111		0.0292	1.423E-04	10.0637	101%	0.0494	ppb	0.4912
In 115	<	183817	844.9396				ions/sec	
Pb 208		2.1797	0.0186	101.2658	101%	0.8707	ppb	0.8598
Bi 209	<	455296	1939.5952				ions/sec	
Cl 35		125	9.2918					
Ca 44		65	10.8167					
Ti 47		368	9.2924					
Br 81		4383	111.1061					
Kr 83		20	1.0000					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	ICB
Sample Description:	
Sample Type:	Sample
Sequence Number:	015
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	18:08:19 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	487	15.3303	0	0.0000
Ge 73	92829	379.0895	0	0.0000
As 75	-25	22.3312	0	0.0000
Cd 111	8	4.9378	0	0.0000
In 115	180286	1181.5352	0	0.0000
Pb 208	1433	267.6876	0	0.0000
Bi 209	449326	2908.4548	0	0.0000
Cl 35	121	13.0513	0	0.0000
Ca 44	13	4.0415	0	0.0000
Ti 47	324	13.8928	0	0.0000
Br 81	4342	89.1787	0	0.0000
Kr 83	12	4.5826	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	<	5.243E-03	1.651E-04	-0.2507	0.0441	ppb	17.6010
Ge 73		92829	379.0895			ions/sec	
As 75		-2.694E-04	2.406E-04	-0.2487	0.0765	ppb	30.7733
Cd 111	<	4.668E-05	2.739E-05	-0.0561	9.514E-03	ppb	16.9499
In 115		180286	1181.5352			ions/sec	
Pb 208	<	3.189E-03	5.958E-04	-0.4060	0.0278	ppb	6.8546
Bi 209		449326	2908.4548			ions/sec	
Cl 35		121	13.0513				
Ca 44		13	4.0415				
Ti 47		324	13.8928				
Br 81		4342	89.1787				
Kr 83		12	4.5826				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	ICS A
Sample Description:	S5753 (10:100)
Sample Type:	Sample
Sequence Number:	016
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	18:11:01 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	767	36.5789	0	0.0000
Ge 73	84544	294.1245	0	0.0000
As 75	-111	39.7863	0	0.0000
Cd 111	238	47.8446	0	0.0000
In 115	173200	755.1530	0	0.0000
Pb 208	10773	69.1335	0	0.0000
Bi 209	346121	992.5679	0	0.0000
Cl 35	6539	105.4664	0	0.0000
Ca 44	75292	184.3138	0	0.0000
Ti 47	447752	3145.4844	0	0.0000
Br 81	5322	100.3187	0	0.0000
Kr 83	154	6.8069	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		9.078E-03	4.327E-04	0.7740	0.1156	ppb	14.9347
Ge 73	<	84544	294.1245			ions/sec	
As 75		-1.307E-03	4.706E-04	-0.5790	0.1497	ppb	25.8624
Cd 111		1.372E-03	2.762E-04	0.4042	0.0960	ppb	23.7413
In 115	<	173200	755.1530			ions/sec	
Pb 208		0.0311	1.997E-04	0.8990	9.330E-03	ppb	1.0379
Bi 209	<	346121	992.5679			ions/sec	
Cl 35		6539	105.4664				
Ca 44		75292	184.3138				
Ti 47		447752	3145.4844				
Br 81		5322	100.3187				
Kr 83		154	6.8069				

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QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 22599B
Data Set Description:
Parameter File: ISSI

Sample ID: ICS AB
Sample Description: S5753 (10:100) S5745 (1:100)
Sample Type: Sample
Sequence Number: 017
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 18:13:38 Feb 25 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

		Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66		7476	111.5550	0	0.0000
Ge 73		86486	562.1447	0	0.0000
As 75		6626	64.0531	0	0.0000
Cd 111		10359	1984.6630	0	0.0000
In 115	>	158847	2.667E+04	0	0.0000
Pb 208		10127	92.0729	0	0.0000
Bi 209		350740	3342.5347	0	0.0000
Cl 35		5693	99.2359	0	0.0000
Ca 44		66246	549.1989	0	0.0000
Ti 47		415538	1376.7507	0	0.0000
Br 81		5361	11.5512	0	0.0000
Kr 83		140	6.0828	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		0.0864	1.290E-03	21.4430	107%	0.3446	ppb	1.6070
Ge 73	<	86486	562.1447				ions/sec	
As 75		0.0766	7.406E-04	24.2135	121%	0.2357	ppb	0.9733
Cd 111		0.0652	0.0125	22.5813	113%	4.3401	ppb	19.2200
In 115	<	158847	2.667E+04				ions/sec	
Pb 208		0.0289	2.625E-04	0.7938	-	0.0123	ppb	1.5448
Bi 209	<	350740	3342.5347				ions/sec	
Cl 35		5693	99.2359					
Ca 44		66246	549.1989					
Ti 47		415538	1376.7507					
Br 81		5361	11.5512					
Kr 83		140	6.0828					

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QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-MB 01/11
Sample Description:	
Sample Type:	Sample
Sequence Number:	018
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	18:16:17 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	3596	77.1699	0	0.0000
Ge 73	86095	284.7230	0	0.0000
As 75	-3	15.4845	0	0.0000
Cd 111	20	1.1912	0	0.0000
In 115	173290	1762.6880	0	0.0000
Pb 208	8933	253.5852	0	0.0000
Bi 209	472463	8887.3984	0	0.0000
Cl 35	174	11.5905	0	0.0000
Ca 44	176	23.3026	0	0.0000
Ti 47	1164	86.1293	0	0.0000
Br 81	4351	58.0021	0	0.0000
Kr 83	16	1.5275	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0418	8.963E-04	9.5080	0.2395	ppb	2.5185
Ge 73	<	86095	284.7230			ions/sec	
As 75		-3.265E-05	1.799E-04	-0.1734	0.0572	ppb	33.0043
Cd 111		1.164E-04	6.874E-06	-0.0319	2.388E-03	ppb	7.4828
In 115	<	173290	1762.6880			ions/sec	
Pb 208		0.0189	5.367E-04	0.3283	0.0251	ppb	7.6371
Bi 209	<	472463	8887.3984			ions/sec	
Cl 35		174	11.5905				
Ca 44		176	23.3026				
Ti 47		1164	86.1293				
Br 81		4351	58.0021				
Kr 83		16	1.5275				

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QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-SRM 0287
Sample Description:	(0.25:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	019
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	18:18:41 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	4607	137.8313	0	0.0000
Ge 73	93805	1407.3915	0	0.0000
As 75	15432	379.1499	0	0.0000
Cd 111	1143	49.3546	0	0.0000
In 115	181077	1487.7042	0	0.0000
Pb 208	111894	2303.7141	0	0.0000
Bi 209	476956	3806.4050	0	0.0000
Cl 35	134	5.0333	0	0.0000
Ca 44	7462	114.0727	0	0.0000
Ti 47	609	42.1958	0	0.0000
Br 81	4478	97.2319	0	0.0000
Kr 83	16	2.8868	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0491	1.469E-03	11.4692	0.3925	ppb	3.4226
Ge 73	<	93805	1407.3915			ions/sec	
As 75		0.1645	4.042E-03	52.1846	1.2861	ppb	2.4645
Cd 111		6.310E-03	2.726E-04	2.1197	0.0947	ppb	4.4667
In 115	<	181077	1487.7042			ions/sec	
Pb 208		0.2346	4.830E-03	10.4039	0.2256	ppb	2.1687
Bi 209	<	476956	3806.4050			ions/sec	
Cl 35		134	5.0333				
Ca 44		7462	114.0727				
Ti 47		609	42.1958				
Br 81		4478	97.2319				
Kr 83		16	2.8868				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 22599B
Data Set Description:
Parameter File: ISSI

Sample ID: T-27907-817
Sample Description: (0.5:50)(0.1:10)
Sample Type: Sample
Sequence Number: 020
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 18:23:44 Feb 25 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

		Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66		8951	153.7873	0	0.0000
Ge 73		93356	614.5828	0	0.0000
As 75		8185	88.7691	0	0.0000
Cd 111		408	60.2526	0	0.0000
In 115	>	164108	2.453E+04	0	0.0000
Pb 208		317784	3035.4636	0	0.0000
Bi 209		448365	3750.6804	0	0.0000
Cl 35		121	9.0002	0	0.0000
Ca 44		274	11.8461	0	0.0000
Ti 47		5981	206.4937	0	0.0000
Br 81		4627	123.6536	0	0.0000
Kr 83		21	6.2450	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	mg/kg	Std. Dev.		% RSD
Zn 66		0.0959	1.647E-03	23.9642	24	0.4401	ppb	1.8364
Ge 73	<	93356	614.5828				ions/sec	
As 75		0.0877	9.509E-04	27.7350	28	0.3026	ppb	1.0909
Cd 111		2.486E-03	3.672E-04	0.7913	7.9	0.1275	ppb	16.1179
In 115	<	164108	2.453E+04				ions/sec	
Pb 208		0.7088	6.770E-03	32.5533	33	0.3162	ppb	0.9715
Bi 209	<	448365	3750.6804				ions/sec	
Cl 35		121	9.0002					
Ca 44		274	11.8461					
Ti 47		5981	206.4937					
Br 81		4627	123.6536					
Kr 83		21	6.2450					

000094

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-817 MD
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	021
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	18:26:32 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	8940	151.8956	0	0.0000
Ge 73	93900	916.1597	0	0.0000
As 75	7935	149.3746	0	0.0000
Cd 111	383	33.0333	0	0.0000
In 115	180982	538.9633	0	0.0000
Pb 208	306645	2244.3816	0	0.0000
Bi 209	449187	2490.1501	0	0.0000
Cl 35	115	15.0112	0	0.0000
Ca 44	245	10.4408	0	0.0000
Ti 47	6306	72.6807	0	0.0000
Br 81	4605	20.1146	0	0.0000
Kr 83	17	5.1316	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66	<]	0.0952	1.618E-03	23.7851	1/4%	0.4322	ppb	1.8169
Ge 73		93900	916.1597				ions/sec	
As 75		0.0845	1.591E-03	26.7252	4/	0.5062	ppb	1.8940
Cd 111	<]	2.116E-03	1.825E-04	0.6627		0.0634	ppb	9.5676
In 115		180982	538.9633				ions/sec	
Pb 208	<]	0.6827	4.997E-03	31.3343	4/	0.2334	ppb	0.7449
Bi 209		449187	2490.1501				ions/sec	
Cl 35		115	15.0112					
Ca 44		245	10.4408					
Ti 47		6306	72.6807					
Br 81		4605	20.1146					
Kr 83		17	5.1316					

000095

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-81~~98~~ 2-25-99
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	022
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	18:29:02 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	11561	53.9975	0	0.0000
Ge 73	91507	548.0997	0	0.0000
As 75	98060	1384.6000	0	0.0000
Cd 111	555	25.0023	0	0.0000
In 115	177100	2323.5149	0	0.0000
Pb 208	1887165	4.357E+04	0	0.0000
Bi 209	447335	7432.7344	0	0.0000
Cl 35	110	3.2144	0	0.0000
Ca 44	501	6.4305	0	0.0000
Ti 47	3738	92.9121	0	0.0000
Br 81	4661	68.6542	0	0.0000
Kr 83	21	1.7321	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.1263	5.901E-04	32.1009 32= DNT	0.1576	ppb	0.4911
Ge 73	<	91507	548.0997			ions/sec	
As 75		1.0716	0.0151	340.8195 3400	4.8146	ppb	1.4127
Cd 111		3.132E-03	1.412E-04	1.0157 10	0.0490	ppb	4.8280
In 115	<	177100	2323.5149			ions/sec	
Pb 208		4.2187	0.0974	196.5117 2000	4.5498	ppb	2.3153
Bi 209	<	447335	7432.7344			ions/sec	
Cl 35		110	3.2144				
Ca 44		501	6.4305				
Ti 47		3738	92.9121				
Br 81		4661	68.6542				
Kr 83		21	1.7321				

000096

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-818 DIL. TEST
Sample Description:	(0.5:50)(0.1:10)(2:10)
Sample Type:	Sample
Sequence Number:	023
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	18:35:06 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	4709	74.3886	0	0.0000
Ge 73	92493	562.2735	0	0.0000
As 75	19557	161.1664	0	0.0000
Cd 111	107	12.8450	0	0.0000
In 115	176711	833.1979	0	0.0000
Pb 208	380981	2168.2405	0	0.0000
Bi 209	453116	2821.1995	0	0.0000
Cl 35	118	11.1506	0	0.0000
Ca 44	104	6.6583	0	0.0000
Ti 47	1074	15.2764	0	0.0000
Br 81	4479	125.5477	0	0.0000
Kr 83	20	0.5774	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0509	8.043E-04	11.9489	0.2149	ppb	1.7982
Ge 73	<	92493	562.2735			ions/sec	
As 75		0.2114	1.742E-03	67.1180	0.5544	ppb	0.8261
Cd 111		6.054E-04	7.269E-05	0.1380	0.0253	ppb	18.3022
In 115	<	176711	833.1979			ions/sec	
Pb 208		0.8408	4.785E-03	38.7214	0.2235	ppb	0.5773
Bi 209	<	453116	2821.1995			ions/sec	
Cl 35		118	11.1506				
Ca 44		104	6.6583				
Ti 47		1074	15.2764				
Br 81		4479	125.5477				
Kr 83		20	0.5774				

000097

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-818 DIL.TEST
Sample Description:	(0.5:50)(0.1:10)(2:10)
Sample Type:	Sample
Sequence Number:	024
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	18:40:25 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	3880	109.8536	0	0.0000
Ge 73	92383	786.6139	0	0.0000
As 75	20099	45.4127	0	0.0000
Cd 111	114	5.7829	0	0.0000
In 115	177143	1174.1238	0	0.0000
Pb 208	395355	2272.0652	0	0.0000
Bi 209	447160	2661.8730	0	0.0000
Cl 35	118	15.8851	0	0.0000
Ca 44	113	4.9331	0	0.0000
Ti 47	1029	8.7113	0	0.0000
Br 81	4590	75.6029	0	0.0000
Kr 83	20	4.3589	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	]	0.0420	1.189E-03	9.5701	0.3177	ppb	3.3195
Ge 73	<	92383	786.6139			ions/sec	
As 75	]	0.2176	4.916E-04	69.0647	0.1564	ppb	0.2265
Cd 111	]	6.439E-04	3.265E-05	0.1513	0.0113	ppb	7.4932
In 115	<	177143	1174.1238			ions/sec	
Pb 208	]	0.8841	5.081E-03	40.7461	0.2374	ppb	0.5825
Bi 209	<	447160	2661.8730			ions/sec	
Cl 35		118	15.8851				
Ca 44		113	4.9331				
Ti 47		1029	8.7113				
Br 81		4590	75.6029				
Kr 83		20	4.3589				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-818 DIL.TEST
Sample Description:	(0.5:50)(0.1:10)(2:10)(2:10)
Sample Type:	Sample
Sequence Number:	025
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	18:45:34 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	(Untitled)
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	2457	51.4129	0	0.0000
Ge 73	93353	342.9127	0	0.0000
As 75	4023	17.9260	0	0.0000
Cd 111	39	6.0598	0	0.0000
In 115	178312	2273.1619	0	0.0000
Pb 208	81615	626.9569	0	0.0000
Bi 209	457995	3583.5540	0	0.0000
Cl 35	126	8.6602	0	0.0000
Ca 44	66	5.1316	0	0.0000
Ti 47	508	8.3877	0	0.0000
Br 81	4420	101.0568	0	0.0000
Kr 83	22	4.5826	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0263	5.507E-04	5.3814 OK	0.1471	ppb	2.7341
Ge 73	<	93353	342.9127	<100%		ions/sec	
As 75		0.0431	1.920E-04	13.5497	0.0611	ppb	0.4509
Cd 111		2.210E-04	3.398E-05	4.434E-03	0.0118	ppb	266.2188
In 115	<	178312	2273.1619			ions/sec	
Pb 208		0.1782	1.369E-03	7.7693	0.0639	ppb	0.8231
Bi 209	<	457995	3583.5540			ions/sec	
Cl 35		126	8.6602				
Ca 44		66	5.1316				
Ti 47		508	8.3877				
Br 81		4420	101.0568				
Kr 83		22	4.5826				

000099

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCV M1320
Sample Description:	
Sample Type:	Sample
Sequence Number:	026
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	18:48:38 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	37795	33.0433	0	0.0000
Ge 73	92838	450.1092	0	0.0000
As 75	30515	653.3943	0	0.0000
Cd 111	5399	58.8637	0	0.0000
In 115	176829	1499.6318	0	0.0000
Pb 208	1028055	1.296E+04	0	0.0000
Bi 209	447986	3930.3823	0	0.0000
Cl 35	109	14.5717	0	0.0000
Ca 44	46	2.0818	0	0.0000
Ti 47	373	7.0002	0	0.0000
Br 81	4546	120.3595	0	0.0000
Kr 83	23	5.5076	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		0.4071	3.559E-04	107.1090	107%	0.0951	ppb	0.0888
Ge 73	<	92838	450.1092				ions/sec	
As 75		0.3287	7.038E-03	104.4248	104%	2.2395	ppb	2.1446
Cd 111		0.0305	3.329E-04	10.5334	1.52	0.1156	ppb	1.0978
In 115	<	176829	1499.6318				ions/sec	
Pb 208		2.2948	0.0289	106.6435	107%	1.3512	ppb	1.2670
Bi 209	<	447986	3930.3823				ions/sec	
Cl 35		109	14.5717					
Ca 44		46	2.0818					
Ti 47		373	7.0002					
Br 81		4546	120.3595					
Kr 83		23	5.5076					

000100

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCB
Sample Description:	
Sample Type:	Sample
Sequence Number:	027
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	18:51:09 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	521	10.0008	0	0.0000
Ge 73	91181	662.2732	0	0.0000
As 75	-17	33.5791	0	0.0000
Cd 111	10	1.4332	0	0.0000
In 115	175313	1135.2014	0	0.0000
Pb 208	1355	268.4481	0	0.0000
Bi 209	449558	6074.4653	0	0.0000
Cl 35	108	14.7424	0	0.0000
Ca 44	12	4.5093	0	0.0000
Ti 47	319	20.1090	0	0.0000
Br 81	4523	82.9502	0	0.0000
Kr 83	22	3.4641	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66	<	5.718E-03	1.097E-04	-0.1237	ok	0.0293	ppb	23.6961
Ge 73		91181	662.2732				ions/sec	
As 75		-1.865E-04	3.683E-04	-0.2224		0.1172	ppb	52.6982
Cd 111	<	5.744E-05	8.175E-06	-0.0524		2.840E-03	ppb	5.4204
In 115		175313	1135.2014				ions/sec	
Pb 208	<	3.013E-03	5.971E-04	-0.4142		0.0279	ppb	6.7347
Bi 209		449558	6074.4653				ions/sec	
Cl 35		108	14.7424					
Ca 44		12	4.5093					
Ti 47		319	20.1090					
Br 81		4523	82.9502					
Kr 83		22	3.4641					

000101

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 22599B
Data Set Description:
Parameter File: ISSI

Sample ID: T-819
Sample Description: (0.5:50)(0.1:10)
Sample Type: Sample
Sequence Number: 028
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 19:02:44 Feb 25 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	8150	118.3422	0	0.0000
Ge 73	84568	408.2282	0	0.0000
As 75	11507	57.7267	0	0.0000
Cd 111	299	25.6290	0	0.0000
In 115	160199	651.7561	0	0.0000
Pb 208	512192	3164.3877	0	0.0000
Bi 209	389303	2663.8267	0	0.0000
Cl 35	110	2.8866	0	0.0000
Ca 44	338	9.2923	0	0.0000
Ti 47	7584	45.7664	0	0.0000
Br 81	4433	111.5656	0	0.0000
Kr 83	14	1.5275	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	DNR Conc.	ms/ks	Std. Dev.		% RSD
Zn 66		0.0964	1.399E-03	24.0949	240	0.3739	ppb	1.5516
Ge 73	<	84568	408.2282				ions/sec	
As 75		0.1361	6.826E-04	43.1335	430	0.2172	ppb	0.5036
Cd 111		1.868E-03	1.600E-04	0.5767	5.8	0.0556	ppb	9.6367
In 115	<	160199	651.7561				ions/sec	
Pb 208		1.3157	8.128E-03	60.9035	610	0.3797	ppb	0.6234
Bi 209	<	389303	2663.8267				ions/sec	
Cl 35		110	2.8866					
Ca 44		338	9.2923					
Ti 47		7584	45.7664					
Br 81		4433	111.5656					
Kr 83		14	1.5275					

000102

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-820
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	029
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	19:05:18 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	20991	112.5143	0	0.0000
Ge 73	83138	201.6925	0	0.0000
As 75	12062	250.6302	0	0.0000
Cd 111	380	25.7677	0	0.0000
In 115	156864	916.7095	0	0.0000
Pb 208	785207	4524.5317	0	0.0000
Bi 209	381387	2278.6736	0	0.0000
Cl 35	118	6.6583	0	0.0000
Ca 44	374	23.3027	0	0.0000
Ti 47	4940	32.0514	0	0.0000
Br 81	4378	34.6255	0	0.0000
Kr 83	17	1.0000	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.2525	1.353E-03	65.8011	0.3616	ppb	0.5495
Ge 73	<	83138	201.6925			ions/sec	
As 75	<	0.1451	3.015E-03	46.0007	0.9592	ppb	2.0853
Cd 111	<	2.423E-03	1.643E-04	0.7694	0.0571	ppb	7.4167
In 115	<	156864	916.7095			ions/sec	
Pb 208	<	2.0588	0.0119	95.6185	0.5542	ppb	0.5796
Bi 209	<	381387	2278.6736			ions/sec	
Cl 35		118	6.6583				
Ca 44		374	23.3027				
Ti 47		4940	32.0514				
Br 81		4378	34.6255				
Kr 83		17	1.0000				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 22599B
Data Set Description:
Parameter File: ISSI

Sample ID: T-821
Sample Description: (0.5:50)(0.1:10)
Sample Type: Sample
Sequence Number: 030
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 19:09:10 Feb 25 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	11373	198.2997	0	0.0000
Ge 73	84848	522.5776	0	0.0000
As 75	2626	76.2775	0	0.0000
Cd 111	409	6.2256	0	0.0000
In 115	159764	618.2144	0	0.0000
Pb 208	732196	526.5052	0	0.0000
Bi 209	390150	2630.4053	0	0.0000
Cl 35	117	17.0588	0	0.0000
Ca 44	296	8.3877	0	0.0000
Ti 47	5091	67.0339	0	0.0000
Br 81	4369	4.1646	0	0.0000
Kr 83	28	3.7860	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. mg/kg	Std. Dev. DWR		% RSD
Zn 66		0.1340	2.337E-03	34.1577 340	0.6244	ppb	1.8279
Ge 73	<	84848	522.5776			ions/sec	
As 75		0.0309	8.990E-04	9.6839 97	0.2861	ppb	2.9539
Cd 111		2.563E-03	3.897E-05	0.8178 8.2	0.0135	ppb	1.6552
In 115	<	159764	618.2144			ions/sec	
Pb 208		1.8767	1.349E-03	87.1113 871	0.0630	ppb	0.0724
Bi 209	<	390150	2630.4053			ions/sec	
Cl 35		117	17.0588				
Ca 44		296	8.3877				
Ti 47		5091	67.0339				
Br 81		4369	4.1646				
Kr 83		28	3.7860				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-822
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	031
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	19:12:51 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	6162	178.7779	0	0.0000
Ge 73	82628	645.6129	0	0.0000
As 75	5024	58.3657	0	0.0000
Cd 111	175	16.4667	0	0.0000
In 115	156870	1458.3649	0	0.0000
Pb 208	172393	1805.0060	0	0.0000
Bi 209	381845	4350.1582	0	0.0000
Cl 35	113	4.7257	0	0.0000
Ca 44	187	10.1493	0	0.0000
Ti 47	4624	41.6859	0	0.0000
Br 81	4348	44.6717	0	0.0000
Kr 83	19	7.8103	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	mg/kg	Std. Dev.		% RSD
Zn 66		0.0746	2.164E-03	18.2729	180	DNR 0.5780	ppb	3.1633
Ge 73	<	82628	645.6129				ions/sec	
As 75		0.0608	7.064E-04	19.1829	190	0.2248	ppb	1.1717
Cd 111		1.118E-03	1.050E-04	0.3161	3.2	0.0365	ppb	11.5346
In 115	<	156870	1458.3649				ions/sec	
Pb 208		0.4515	4.727E-03	20.5348	200	0.2208	ppb	1.0753
Bi 209	<	381845	4350.1582				ions/sec	
Cl 35		113	4.7257					
Ca 44		187	10.1493					
Ti 47		4624	41.6859					
Br 81		4348	44.6717					
Kr 83		19	7.8103					

000105

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 22599B
Data Set Description:
Parameter File: ISSI

Sample ID: T-823
Sample Description: (0.5:50)(0.1:10)
Sample Type: Sample
Sequence Number: 032
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 19:16:03 Feb 25 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	16555	45.9685	0	0.0000
Ge 73	82713	860.5336	0	0.0000
As 75	71097	841.1270	0	0.0000
Cd 111	458	31.7281	0	0.0000
In 115	156914	330.3404	0	0.0000
Pb 208	922474	3881.9956	0	0.0000
Bi 209	378990	3608.4048	0	0.0000
Cl 35	108	7.0002	0	0.0000
Ca 44	299	10.5828	0	0.0000
Ti 47	5279	98.5837	0	0.0000
Br 81	4354	71.5031	0	0.0000
Kr 83	19	3.7859	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.2001	5.558E-04	51.8195	0.1485	ppb	0.2865
Ge 73	<	82713	860.5336			ions/sec	
As 75		0.8596	0.0102	273.3467	3.2358	ppb	1.1838
Cd 111		2.917E-03	2.022E-04	0.9411	0.0702	ppb	7.4636
In 115	<	156914	330.3404			ions/sec	
Pb 208		2.4340	0.0102	113.1458	0.4785	ppb	0.4229
Bi 209	<	378990	3608.4048			ions/sec	
Cl 35		108	7.0002				
Ca 44		299	10.5828				
Ti 47		5279	98.5837				
Br 81		4354	71.5031				
Kr 83		19	3.7859				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-824
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	033
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	19:20:11 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	7121	141.0107	0	0.0000
Ge 73	82577	302.6604	0	0.0000
As 75	5711	90.6121	0	0.0000
Cd 111	289	17.2343	0	0.0000
In 115	156741	451.4841	0	0.0000
Pb 208	136763	1357.9904	0	0.0000
Bi 209	381826	217.4762	0	0.0000
Cl 35	122	8.6602	0	0.0000
Ca 44	175	8.6222	0	0.0000
Ti 47	5912	96.0830	0	0.0000
Br 81	4319	75.5360	0	0.0000
Kr 83	16	1.5275	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0862	1.708E-03	21.3856	2.0	0.4562 ppb	2.1332
Ge 73	<	82577	302.6604			ions/sec	
As 75		0.0692	1.097E-03	21.8445	2.2	0.3492 ppb	1.5984
Cd 111		1.844E-03	1.100E-04	0.5683	5.7	0.0382 ppb	6.7204
In 115	<	156741	451.4841			ions/sec	
Pb 208		0.3582	3.557E-03	16.1767	16	0.1661 ppb	1.0270
Bi 209	<	381826	217.4762			ions/sec	
Cl 35		122	8.6602				
Ca 44		175	8.6222				
Ti 47		5912	96.0830				
Br 81		4319	75.5360				
Kr 83		16	1.5275				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-825
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	034
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	19:24:15 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	10559	154.3795	0	0.0000
Ge 73	83600	860.5715	0	0.0000
As 75	239886	1331.6989	0	0.0000
Cd 111	548	10.6742	0	0.0000
In 115	158091	775.5771	0	0.0000
Pb 208	1502510	1.570E+04	0	0.0000
Bi 209	385114	2012.9023	0	0.0000
Cl 35	106	21.3855	0	0.0000
Ca 44	463	22.7161	0	0.0000
Ti 47	4922	42.0781	0	0.0000
Br 81	4418	29.0691	0	0.0000
Kr 83	21	4.1633	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. mg/kg	Std. Dev.		% RSD
Zn 66		0.1263	1.847E-03	32.0907 320 DRP	0.4933	ppb	1.5373
Ge 73	<	83600	860.5715			ions/sec	
As 75		2.8695	0.0159	912.8896 9100	5.0687	ppb	0.5552
Cd 111		3.465E-03	6.752E-05	1.1312 11	0.0235	ppb	2.0734
In 115	<	158091	775.5771			ions/sec	
Pb 208		3.9015	0.0408	181.6939 1800	1.9041	ppb	1.0480
Bi 209	<	385114	2012.9023			ions/sec	
Cl 35		106	21.3855				
Ca 44		463	22.7161				
Ti 47		4922	42.0781				
Br 81		4418	29.0691				
Kr 83		21	4.1633				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-826
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	035
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	19:28:57 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	7070	95.7005	0	0.0000
Ge 73	84629	271.1542	0	0.0000
As 75	7313	109.3024	0	0.0000
Cd 111	339	3.5384	0	0.0000
In 115	160410	741.6066	0	0.0000
Pb 208	231787	2990.6150	0	0.0000
Bi 209	397581	6141.6841	0	0.0000
Cl 35	122	17.8981	0	0.0000
Ca 44	195	7.9370	0	0.0000
Ti 47	5617	72.6186	0	0.0000
Br 81	4368	100.5617	0	0.0000
Kr 83	21	4.0415	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. mg/kg	Std. Dev. DNR		% RSD
Zn 66		0.0835	1.131E-03	20.6665 210	0.3021	ppb	1.4618
Ge 73	<	84629	271.1542			ions/sec	
As 75		0.0864	1.292E-03	27.3328 270	0.4110	ppb	1.5036
Cd 111		2.112E-03	2.206E-05	0.6614 6.6	7.563E-03	ppb	1.1585
In 115	<	160410	741.6066			ions/sec	
Pb 208		0.5830	7.522E-03	26.6784 270	0.3514	ppb	1.3171
Bi 209	<	397581	6141.6841			ions/sec	
Cl 35		122	17.8981				
Ca 44		195	7.9370				
Ti 47		5617	72.6186				
Br 81		4368	100.5617				
Kr 83		21	4.0415				

000109

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-827
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	036
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	19:33:11 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	6231	55.7973	0	0.0000
Ge 73	83574	417.5082	0	0.0000
As 75	2019	48.9452	0	0.0000
Cd 111	146	7.8667	0	0.0000
In 115	158142	884.6854	0	0.0000
Pb 208	97101	1402.6482	0	0.0000
Bi 209	388662	3987.9026	0	0.0000
Cl 35	112	4.7258	0	0.0000
Ca 44	213	28.4317	0	0.0000
Ti 47	3156	68.5303	0	0.0000
Br 81	4257	9.6160	0	0.0000
Kr 83	19	1.5275	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0746	6.676E-04	18.2672	0.1784	ppb	0.9764
Ge 73	<	83574	417.5082			ions/sec	
As 75		0.0242	5.857E-04	7.5251	0.1864	ppb	2.4764
Cd 111		9.230E-04	4.974E-05	0.2483	0.0173	ppb	6.9601
In 115	<	158142	884.6854			ions/sec	
Pb 208		0.2498	3.609E-03	11.1155	0.1686	ppb	1.5166
Bi 209	<	388662	3987.9026			ions/sec	
Cl 35		112	4.7258				
Ca 44		213	28.4317				
Ti 47		3156	68.5303				
Br 81		4257	9.6160				
Kr 83		19	1.5275				

000110

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 22599B
Data Set Description:
Parameter File: ISSI

Sample ID: T-827 MS PDS
Sample Description: (0.5:50)(0.1:10) 0.1 ml OF MP1208-09 IN 10 ml
Sample Type: Sample
Sequence Number: 037
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 19:39:24 Feb 25 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	24526	101.8152	0	0.0000
Ge 73	81024	688.3734	0	0.0000
As 75	10162	124.9612	0	0.0000
Cd 111	14165	215.7768	0	0.0000
In 115	154006	694.6171	0	0.0000
Pb 208	341846	4059.4409	0	0.0000
Bi 209	360763	2301.0261	0	0.0000
Cl 35	107	11.7899	0	0.0000
Ca 44	21318	128.0960	0	0.0000
Ti 47	125767	305.4116	0	0.0000
Br 81	4360	113.4541	0	0.0000
Kr 83	29	5.5076	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. ppb	Std. Dev.		% RSD
Zn 66		0.3027	1.257E-03	79.2174	0.3357	ppb	0.4238
Ge 73	<	81024	688.3734			ions/sec	
As 75		0.1254	1.542E-03	39.7442	0.4907	ppb	1.2348
Cd 111		0.0920	1.401E-03	31.8769	0.4867	ppb	1.5268
In 115	<	154006	694.6171			ions/sec	
Pb 208		0.9476	0.0113	43.7085	0.5256	ppb	1.2026
Bi 209	<	360763	2301.0261			ions/sec	
Cl 35		107	11.7899				
Ca 44		21318	128.0960				
Ti 47		125767	305.4116				
Br 81		4360	113.4541				
Kr 83		29	5.5076				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCV M1320
Sample Description:	
Sample Type:	Sample
Sequence Number:	038
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	19:42:52 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	37666	78.8482	0	0.0000
Ge 73	85263	212.7634	0	0.0000
As 75	30817	133.5600	0	0.0000
Cd 111	5393	36.8693	0	0.0000
In 115	160953	1238.0923	0	0.0000
Pb 208	961484	3168.4155	0	0.0000
Bi 209	388206	2277.4509	0	0.0000
Cl 35	121	7.6377	0	0.0000
Ca 44	53	7.0946	0	0.0000
Ti 47	373	28.1492	0	0.0000
Br 81	4369	89.8615	0	0.0000
Kr 83	22	5.8595	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.4418	9.248E-04	116.3680	0.2471	ppb	0.2123
Ge 73	<	85263	212.7634			ions/sec	
As 75		0.3614	1.566E-03	114.8431	0.4984	ppb	0.4340
Cd 111		0.0335	2.291E-04	11.5677	0.0796	ppb	0.6879
In 115	<	160953	1238.0923			ions/sec	
Pb 208		2.4767	8.162E-03	115.1406	0.3813	ppb	0.3311
Bi 209	<	388206	2277.4509			ions/sec	
Cl 35		121	7.6377				
Ca 44		53	7.0946				
Ti 47		373	28.1492				
Br 81		4369	89.8615				
Kr 83		22	5.8595				

000112

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 22599B
Data Set Description:
Parameter File: ISSI

Sample ID: CCV M1320
Sample Description:
Sample Type: Sample
Sequence Number: 039
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 19:45:51 Feb 25 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	37641	464.9995	0	0.0000
Ge 73	83366	558.4661	0	0.0000
As 75	30788	138.4655	0	0.0000
Cd 111	5388	33.9533	0	0.0000
In 115	158687	1007.8961	0	0.0000
Pb 208	978362	1.389E+04	0	0.0000
Bi 209	388038	2722.7324	0	0.0000
Cl 35	118	12.5832	0	0.0000
Ca 44	56	4.0415	0	0.0000
Ti 47	346	12.7024	0	0.0000
Br 81	4345	56.9072	0	0.0000
Kr 83	23	5.6863	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.4515	5.578E-03	118.9732	1.4901	ppb	1.2525
Ge 73	<	83366	558.4661			ions/sec	
As 75		0.3693	1.661E-03	117.3512	0.5285	ppb	0.4504
Cd 111		0.0340	2.140E-04	11.7217	0.0743	ppb	0.6341
In 115	<	158687	1007.8961			ions/sec	
Pb 208		2.5213	0.0358	117.2223	1.6724	ppb	1.4267
Bi 209	<	388038	2722.7324			ions/sec	
Cl 35		118	12.5832				
Ca 44		56	4.0415				
Ti 47		346	12.7024				
Br 81		4345	56.9072				
Kr 83		23	5.6863				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	STD0
Sample Description:	
Sample Type:	Standard
Sequence Number:	040
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	19:50:26 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	501	16.3498	0	0.0000
Ge 73	83907	1311.7915	0	0.0000
As 75	-35	26.1442	0	0.0000
Cd 111	10	1.1162	0	0.0000
In 115	159158	1692.4050	0	0.0000
Pb 208	586	31.7540	0	0.0000
Bi 209	386702	5393.0649	0	0.0000
Cl 35	113	3.0551	0	0.0000
Ca 44	9	3.7859	0	0.0000
Ti 47	300	10.4090	0	0.0000
Br 81	4357	71.0789	0	0.0000
Kr 83	17	4.0000	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	<	5.965E-03	1.949E-04			ppb	
Ge 73		83907	1311.7915			ions/sec	
As 75		-4.194E-04	3.116E-04			ppb	
Cd 111	<	6.105E-05	7.013E-06			ppb	
In 115		159158	1692.4050			ions/sec	
Pb 208	<	1.516E-03	8.211E-05			ppb	
Bi 209		386702	5393.0649			ions/sec	
Cl 35		113	3.0551				
Ca 44		9	3.7859				
Ti 47		300	10.4090				
Br 81		4357	71.0789				
Kr 83		17	4.0000				

		Entered Conc.
Zn 66	<	0.0000
Ge 73		
As 75		0.0000
Cd 111	<	0.0000
In 115		
Pb 208	<	0.0000
Bi 209		
Cl 35		
Ca 44		
Ti 47		
Br 81		
Kr 83		

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	STD1
Sample Description:	
Sample Type:	Standard
Sequence Number:	041
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	19:53:43 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	4112	36.1465	0	0.0000
Ge 73	84385	774.5521	0	0.0000
As 75	3021	100.4560	0	0.0000
Cd 111	554	25.7892	0	0.0000
In 115	161785	851.4933	0	0.0000
Pb 208	100277	436.1807	0	0.0000
Bi 209	397288	4888.4639	0	0.0000
Cl 35	117	9.5045	0	0.0000
Ca 44	17	2.5166	0	0.0000
Ti 47	315	16.5637	0	0.0000
Br 81	4354	98.1131	0	0.0000
Kr 83	18	3.6055	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0487	4.284E-04	10.0000	0.1002	ppb	1.0016
Ge 73	<	84385	774.5521			ions/sec	
As 75		0.0358	1.190E-03	10.0000	0.3287	ppb	3.2866
Cd 111		3.423E-03	1.594E-04	1.0000	0.0474	ppb	4.7418
In 115	<	161785	851.4933			ions/sec	
Pb 208		0.2524	1.098E-03	10.0000	0.0438	ppb	0.4376
Bi 209	<	397288	4888.4639			ions/sec	
Cl 35		117	9.5045				
Ca 44		17	2.5166				
Ti 47		315	16.5637				
Br 81		4354	98.1131				
Kr 83		18	3.6055				

		Entered Conc.
Zn 66		10.0000
Ge 73	<	
As 75		10.0000
Cd 111		1.0000
In 115	<	
Pb 208		10.0000
Bi 209	<	
Cl 35		
Ca 44		
Ti 47		
Br 81		
Kr 83		

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	STD2
Sample Description:	
Sample Type:	Standard
Sequence Number:	042
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	19:56:09 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	74030	830.8093	0	0.0000
Ge 73	82892	458.7222	0	0.0000
As 75	62218	365.7763	0	0.0000
Cd 111	10981	101.7642	0	0.0000
In 115	158746	449.4960	0	0.0000
Pb 208	1979571	2.245E+04	0	0.0000
Bi 209	388187	3246.6233	0	0.0000
Cl 35	112	18.5024	0	0.0000
Ca 44	14	4.9329	0	0.0000
Ti 47	301	12.4230	0	0.0000
Br 81	4354	68.8105	0	0.0000
Kr 83	26	5.0332	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	<	0.8931	0.0100	200.0094	2.2577	ppb	1.1288
Ge 73		82892	458.7222			ions/sec	
As 75		0.7506	4.413E-03	200.0093	1.1742	ppb	0.5871
Cd 111	<	0.0692	6.410E-04	20.0007	0.1854	ppb	0.9270
In 115		158746	449.4960			ions/sec	
Pb 208	<	5.0995	0.0578	200.0041	2.2681	ppb	1.1340
Bi 209		388187	3246.6233			ions/sec	
Cl 35		112	18.5024				
Ca 44		14	4.9329				
Ti 47		301	12.4230				
Br 81		4354	68.8105				
Kr 83		26	5.0332				

		Entered Conc.
Zn 66	<	200.0000
Ge 73		
As 75		200.0000
Cd 111	<	20.0000
In 115		
Pb 208	<	200.0000
Bi 209		
Cl 35		
Ca 44		
Ti 47		
Br 81		
Kr 83		

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCV M1320
Sample Description:	
Sample Type:	Sample
Sequence Number:	043
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	19:58:15 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	37398	463.0211	0	0.0000
Ge 73	82417	141.5957	0	0.0000
As 75	30258	153.6024	0	0.0000
Cd 111	5403	92.6831	0	0.0000
In 115	156931	416.4119	0	0.0000
Pb 208	969130	3201.0610	0	0.0000
Bi 209	382537	2300.4854	0	0.0000
Cl 35	115	5.0000	0	0.0000
Ca 44	51	0.5775	0	0.0000
Ti 47	311	32.3481	0	0.0000
Br 81	4259	61.2391	0	0.0000
Kr 83	22	5.8595	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		0.4538	5.618E-03	101.0489	101%	1.2655	ppb	1.2524
Ge 73	<	82417	141.5957				ions/sec	
As 75		0.3671	1.864E-03	97.9767	98%	0.4959	ppb	0.5062
Cd 111		0.0344	5.906E-04	9.9538	100%	0.1708	ppb	1.7160
In 115	<	156931	416.4119				ions/sec	
Pb 208		2.5334	8.368E-03	99.3708	99%	0.3282	ppb	0.3302
Bi 209	<	382537	2300.4854				ions/sec	
Cl 35		115	5.0000					
Ca 44		51	0.5775					
Ti 47		311	32.3481					
Br 81		4259	61.2391					
Kr 83		22	5.8595					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCB
Sample Description:	
Sample Type:	Sample
Sequence Number:	044
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	20:00:47 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	510	24.3792	0	0.0000
Ge 73	82861	596.3176	0	0.0000
As 75	7	19.0296	0	0.0000
Cd 111	9	2.1785	0	0.0000
In 115	158554	886.9947	0	0.0000
Pb 208	1783	298.9190	0	0.0000
Bi 209	387854	1456.5645	0	0.0000
Cl 35	115	11.2695	0	0.0000
Ca 44	14	4.6188	0	0.0000
Ti 47	270	6.1102	0	0.0000
Br 81	4269	28.7562	0	0.0000
Kr 83	19	4.5826	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66	<	6.154E-03	2.942E-04	0.2214	ov	0.0663	ppb	29.9376
Ge 73		82861	596.3176				ions/sec	
As 75		8.077E-05	2.297E-04	0.3094		0.0611	ppb	19.7538
Cd 111	<	5.374E-05	1.374E-05	0.0114		3.974E-03	ppb	34.8184
In 115		158554	886.9947				ions/sec	
Pb 208	<	4.596E-03	7.707E-04	0.1993		0.0302	ppb	15.1670
Bi 209		387854	1456.5645				ions/sec	
Cl 35		115	11.2695					
Ca 44		14	4.6188					
Ti 47		270	6.1102					
Br 81		4269	28.7562					
Kr 83		19	4.5826					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-819
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	045
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	20:03:13 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	8236	112.1557	0	0.0000
Ge 73	81871	480.0870	0	0.0000
As 75	11359	217.9556	0	0.0000
Cd 111	317	14.5411	0	0.0000
In 115	157635	653.2941	0	0.0000
Pb 208	524051	5606.7139	0	0.0000
Bi 209	388691	1662.7977	0	0.0000
Cl 35	112	5.2914	0	0.0000
Ca 44	361	2.6458	0	0.0000
Ti 47	7551	36.4935	0	0.0000
Br 81	4246	75.5632	0	0.0000
Kr 83	20	5.5678	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. mg/kg	Std. Dev.		% RSD
Zn 66		0.1006	1.370E-03	21.4950 21	0.3086	ppb	1.4356
Ge 73	<	81871	480.0870			ions/sec	
As 75		0.1387	2.662E-03	37.2047 37	0.7084	ppb	1.9040
Cd 111		2.012E-03	9.225E-05	0.5778 5.8	0.0267	ppb	4.6176
In 115	<	157635	653.2941			ions/sec	
Pb 208		1.3482	0.0144	52.8923 53	0.5657	ppb	1.0695
Bi 209	<	388691	1662.7977			ions/sec	
Cl 35		112	5.2914				
Ca 44		361	2.6458				
Ti 47		7551	36.4935				
Br 81		4246	75.5632				
Kr 83		20	5.5678				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-820
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	046
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	20:05:39 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	20563	86.5761	0	0.0000
Ge 73	83711	568.4979	0	0.0000
As 75	11927	74.9622	0	0.0000
Cd 111	359	23.2243	0	0.0000
In 115	161368	333.4063	0	0.0000
Pb 208	791203	2099.7458	0	0.0000
Bi 209	396550	4014.4187	0	0.0000
Cl 35	121	12.5301	0	0.0000
Ca 44	341	21.3783	0	0.0000
Ti 47	4834	140.9444	0	0.0000
Br 81	4298	121.8486	0	0.0000
Kr 83	21	6.0277	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. mg/kg	Std. Dev.		% RSD
Zn 66		0.2456	1.034E-03	54.1689 54.0	0.2330	ppb	0.4301
Ge 73	<	83711	568.4979			ions/sec	
As 75		0.1425	8.955E-04	38.2012 38.2	0.2383	ppb	0.6237
Cd 111		2.225E-03	1.439E-04	0.6393 6.4	0.0416	ppb	6.5106
In 115	<	161368	333.4063			ions/sec	
Pb 208		1.9952	5.295E-03	78.2643 78.0	0.2077	ppb	0.2653
Bi 209	<	396550	4014.4187			ions/sec	
Cl 35		121	12.5301				
Ca 44		341	21.3783				
Ti 47		4834	140.9444				
Br 81		4298	121.8486				
Kr 83		21	6.0277				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-821
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	047
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	20:08:13 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	11425	304.2924	0	0.0000
Ge 73	82076	992.5396	0	0.0000
As 75	2653	88.2774	0	0.0000
Cd 111	421	10.2725	0	0.0000
In 115	158160	1178.9222	0	0.0000
Pb 208	748767	1.057E+04	0	0.0000
Bi 209	391426	1941.4789	0	0.0000
Cl 35	112	11.8463	0	0.0000
Ca 44	320	17.0099	0	0.0000
Ti 47	5096	56.5605	0	0.0000
Br 81	4241	75.0572	0	0.0000
Kr 83	17	7.0238	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. mg/kg		Std. Dev.		% RSD
Zn 66		0.1392	3.707E-03	30.1909	300	0.8351	ppb	2.7662
Ge 73	<	82076	992.5396				ions/sec	
As 75		0.0323	1.076E-03	8.8899	8.989	0.2862	ppb	3.2193
Cd 111		2.662E-03	6.495E-05	0.7657	7.6	0.0188	ppb	2.4531
In 115	<	158160	1178.9222				ions/sec	
Pb 208		1.9129	0.0270	75.0368	750	1.0588	ppb	1.4110
Bi 209	<	391426	1941.4789				ions/sec	
Cl 35		112	11.8463					
Ca 44		320	17.0099					
Ti 47		5096	56.5605					
Br 81		4241	75.0572					
Kr 83		17	7.0238					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-822
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	048
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	20:11:51 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	6049	45.9361	0	0.0000
Ge 73	83163	156.4791	0	0.0000
As 75	4892	69.0929	0	0.0000
Cd 111	180	5.4621	0	0.0000
In 115	159877	1222.5137	0	0.0000
Pb 208	171003	525.9122	0	0.0000
Bi 209	393811	3040.3257	0	0.0000
Cl 35	103	11.0152	0	0.0000
Ca 44	185	11.0001	0	0.0000
Ti 47	4524	85.6189	0	0.0000
Br 81	4240	35.5682	0	0.0000
Kr 83	19	2.0817	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0727	5.524E-04	15.2208 15.3	0.1244	ppb	0.8175
Ge 73	<	83163	156.4791			ions/sec	
As 75		0.0588	8.308E-04	15.9396 16.0	0.2211	ppb	1.3869
Cd 111		1.127E-03	3.416E-05	0.3217 3.2	9.881E-03	ppb	3.0715
In 115	<	159877	1222.5137			ions/sec	
Pb 208		0.4342	1.335E-03	17.0478 17.0	0.0524	ppb	0.3072
Bi 209	<	393811	3040.3257			ions/sec	
Cl 35		103	11.0152				
Ca 44		185	11.0001				
Ti 47		4524	85.6189				
Br 81		4240	35.5682				
Kr 83		19	2.0817				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 22599B
Data Set Description:
Parameter File: ISSI

Sample ID: T-823
Sample Description: (0.5:50)(0.1:10)
Sample Type: Sample
Sequence Number: 049
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 20:14:44 Feb 25 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	16503	387.2216	0	0.0000
Ge 73	81870	650.4932	0	0.0000
As 75	70539	1342.5060	0	0.0000
Cd 111	435	11.8725	0	0.0000
In 115	156938	1470.4086	0	0.0000
Pb 208	934012	6396.3560	0	0.0000
Bi 209	382476	1597.7189	0	0.0000
Cl 35	119	9.5045	0	0.0000
Ca 44	315	38.4240	0	0.0000
Ti 47	5110	109.2314	0	0.0000
Br 81	4274	25.5468	0	0.0000
Kr 83	17	4.5093	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. mg/kg	Std. Dev.		% RSD
Zn 66		0.2016	4.730E-03	44.2407 4.40	1.0654	ppb	2.4082
Ge 73	<	81870	650.4932			ions/sec	
As 75		0.8616	0.0164	229.5466 23.00	4.3633	ppb	1.9008
Cd 111		2.772E-03	7.565E-05	0.7976 ~~1.8~~ 8.0	0.0219	ppb	2.7430
In 115	<	156938	1470.4086			ions/sec	
Pb 208		2.4420	0.0167	95.7860 9.60	0.6558	ppb	0.6847
Bi 209	<	382476	1597.7189			ions/sec	
Cl 35		119	9.5045				
Ca 44		315	38.4240				
Ti 47		5110	109.2314				
Br 81		4274	25.5468				
Kr 83		17	4.5093				

000123

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCV M1320
Sample Description:	
Sample Type:	Sample
Sequence Number:	050
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	20:17:16 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	36630	246.9557	0	0.0000
Ge 73	84551	483.4262	0	0.0000
As 75	30264	248.3595	0	0.0000
Cd 111	5312	151.2046	0	0.0000
In 115	160707	1387.5604	0	0.0000
Pb 208	968573	1.589E+04	0	0.0000
Bi 209	392139	6511.1919	0	0.0000
Cl 35	114	3.0549	0	0.0000
Ca 44	63	12.7672	0	0.0000
Ti 47	319	5.5068	0	0.0000
Br 81	4253	38.0692	0	0.0000
Kr 83	18	0.5774	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.4332	2.921E-03	96.4240 96%	0.6579	ppb	0.6823
Ge 73	<	84551	483.4262			ions/sec	
As 75		0.3579	2.937E-03	95.5297 96%	0.7816	ppb	0.8182
Cd 111		0.0331	9.409E-04	9.5560 96%	0.2721	ppb	2.8475
In 115	<	160707	1387.5604			ions/sec	
Pb 208		2.4700	0.0405	96.8825 97%	1.5892	ppb	1.6404
Bi 209	<	392139	6511.1919			ions/sec	
Cl 35		114	3.0549				
Ca 44		63	12.7672				
Ti 47		319	5.5068				
Br 81		4253	38.0692				
Kr 83		18	0.5774				

000124

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCB
Sample Description:	
Sample Type:	Sample
Sequence Number:	051
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	20:19:48 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	501	14.3504	0	0.0000
Ge 73	83148	392.6909	0	0.0000
As 75	-15	20.3797	0	0.0000
Cd 111	7	1.5099	0	0.0000
In 115	158694	778.6891	0	0.0000
Pb 208	1171	221.5723	0	0.0000
Bi 209	387959	2942.3752	0	0.0000
Cl 35	111	5.5076	0	0.0000
Ca 44	11	1.1547	0	0.0000
Ti 47	293	17.0884	0	0.0000
Br 81	4283	140.8694	0	0.0000
Kr 83	20	7.0000	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		6.026E-03	1.726E-04	0.1925 ok	0.0389	ppb	20.1925
Ge 73	<	83148	392.6909			ions/sec	
As 75		-1.797E-04	2.451E-04	0.2400	0.0652	ppb	27.1693
Cd 111		4.509E-05	9.515E-06	8.911E-03	2.752E-03	ppb	30.8798
In 115	<	158694	778.6891			ions/sec	
Pb 208		3.019E-03	5.711E-04	0.1374	0.0224	ppb	16.2990
Bi 209	<	387959	2942.3752			ions/sec	
Cl 35		111	5.5076				
Ca 44		11	1.1547				
Ti 47		293	17.0884				
Br 81		4283	140.8694				
Kr 83		20	7.0000				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 22599B
Data Set Description:
Parameter File: ISSI

Sample ID: T-824
Sample Description: (0.5:50)(0.1:10)
Sample Type: Sample
Sequence Number: 052
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 20:26:29 Feb 25 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	7197	179.2308	0	0.0000
Ge 73	82902	480.5535	0	0.0000
As 75	5600	15.6776	0	0.0000
Cd 111	265	12.4565	0	0.0000
In 115	159113	369.6506	0	0.0000
Pb 208	137954	785.4119	0	0.0000
Bi 209	394183	508.6772	0	0.0000
Cl 35	103	8.6218	0	0.0000
Ca 44	173	6.6586	0	0.0000
Ti 47	5861	53.4558	0	0.0000
Br 81	4251	52.9904	0	0.0000
Kr 83	18	2.0817	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. ms/lks	Std. Dev.		% RSD
Zn 66		0.0868	2.162E-03	18.3904 190	0.4870	ppb	2.6481
Ge 73	<	82902	480.5535			ions/sec	
As 75		0.0675	1.891E-04	18.2609 180	0.0503	ppb	0.2756
Cd 111		1.666E-03	7.829E-05	0.4777 4.8	0.0226	ppb	4.7402
In 115	<	159113	369.6506			ions/sec	
Pb 208		0.3500	1.993E-03	13.7438 140	0.0781	ppb	0.5685
Bi 209	<	394183	508.6772			ions/sec	
Cl 35		103	8.6218				
Ca 44		173	6.6586				
Ti 47		5861	53.4558				
Br 81		4251	52.9904				
Kr 83		18	2.0817				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 22599B
Data Set Description:
Parameter File: ISSI

Sample ID: T-825
Sample Description: (0.5:50)(0.1:10)
Sample Type: Sample
Sequence Number: 053
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 20:28:57 Feb 25 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	10464	117.4146	0	0.0000
Ge 73	83015	340.5385	0	0.0000
As 75	236854	1211.6924	0	0.0000
Cd 111	564	8.6080	0	0.0000
In 115	160370	203.8426	0	0.0000
Pb 208	1510605	2.766E+04	0	0.0000
Bi 209	394555	2121.0496	0	0.0000
Cl 35	120	3.5115	0	0.0000
Ca 44	463	30.8935	0	0.0000
Ti 47	4780	59.4700	0	0.0000
Br 81	4348	117.2205	0	0.0000
Kr 83	18	6.5574	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. mg/kg	Std. Dev.		% RSD
Zn 66		0.1260	1.414E-03	27.2283 270	0.3186	ppb	1.1701
Ge 73	<	83015	340.5385			ions/sec	
As 75		2.8531	0.0146	759.4756 7600	3.8838	ppb	0.5114
Cd 111		3.519E-03	5.368E-05	1.0137 10	0.0155	ppb	1.5314
In 115	<	160370	203.8426			ions/sec	
Pb 208		3.8286	0.0701	150.1639 1500	2.7493	ppb	1.8309
Bi 209	<	394555	2121.0496			ions/sec	
Cl 35		120	3.5115				
Ca 44		463	30.8935				
Ti 47		4780	59.4700				
Br 81		4348	117.2205				
Kr 83		18	6.5574				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-826
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	054
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	20:32:36 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	7180	81.5158	0	0.0000
Ge 73	82325	764.4188	0	0.0000
As 75	7202	107.2963	0	0.0000
Cd 111	334	24.7817	0	0.0000
In 115	158639	1712.4554	0	0.0000
Pb 208	229518	5229.6455	0	0.0000
Bi 209	389223	3961.4526	0	0.0000
Cl 35	115	16.2585	0	0.0000
Ca 44	204	20.0335	0	0.0000
Ti 47	5574	63.5571	0	0.0000
Br 81	4261	146.9120	0	0.0000
Kr 83	19	6.0277	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. mg/kg	Std. Dev.		% RSD
Zn 66		0.0872	9.902E-04	18.4823 18.5	0.2230	ppb	1.2068
Ge 73	<]	82325	764.4188			ions/sec	
As 75		0.0875	1.303E-03	23.5660 24.0	0.3468	ppb	1.4716
Cd 111		2.107E-03	1.562E-04	0.6053 6.0	0.0452	ppb	7.4641
In 115	<]	158639	1712.4554			ions/sec	
Pb 208		0.5897	0.0134	23.1442 23.0	0.5269	ppb	2.2767
Bi 209	<]	389223	3961.4526			ions/sec	
Cl 35		115	16.2585				
Ca 44		204	20.0335				
Ti 47		5574	63.5571				
Br 81		4261	146.9120				
Kr 83		19	6.0277				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-827
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	055
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	20:37:19 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	6295	58.1989	0	0.0000
Ge 73	84003	308.6143	0	0.0000
As 75	1983	40.8951	0	0.0000
Cd 111	136	7.3596	0	0.0000
In 115	161194	1614.9115	0	0.0000
Pb 208	97458	1153.3020	0	0.0000
Bi 209	401412	1613.3328	0	0.0000
Cl 35	111	10.8167	0	0.0000
Ca 44	218	16.0003	0	0.0000
Ti 47	3058	86.5030	0	0.0000
Br 81	4317	83.5296	0	0.0000
Kr 83	17	5.5076	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. mg/kg	Std. Dev.		% RSD
Zn 66	]	0.0749	6.928E-04	15.7141 16	0.1561	ppb	0.9931
Ge 73	<	84003	308.6143			ions/sec	
As 75	]	0.0236	4.868E-04	6.5686 66	0.1295	ppb	1.9721
Cd 111	]	8.435E-04	4.566E-05	0.2398 2.4	0.0132	ppb	5.5062
In 115	<	161194	1614.9115			ions/sec	
Pb 208	]	0.2428	2.873E-03	9.5404 9.5	0.1127	ppb	1.1810
Bi 209	<	401412	1613.3328			ions/sec	
Cl 35		111	10.8167				
Ca 44		218	16.0003				
Ti 47		3058	86.5030				
Br 81		4317	83.5296				
Kr 83		17	5.5076				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-827 MS PDS
Sample Description:	(0.5:50)(0.1:10) 0.1 ml OF MP1208-09 IN 10 ml
Sample Type:	Sample
Sequence Number:	056
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	20:40:15 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	22577	339.8307	0	0.0000
Ge 73	80844	450.9142	0	0.0000
As 75	9029	110.5725	0	0.0000
Cd 111	13073	229.5520	0	0.0000
In 115	154953	425.6092	0	0.0000
Pb 208	318246	837.8065	0	0.0000
Bi 209	368586	4085.1035	0	0.0000
Cl 35	119	4.9330	0	0.0000
Ca 44	20331	163.0378	0	0.0000
Ti 47	113905	393.1718	0	0.0000
Br 81	4253	68.3300	0	0.0000
Kr 83	21	7.0946	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66	<	0.2793	4.204E-03	61.7434	92%	0.9469	ppb	1.5336
Ge 73		80844	450.9142				ions/sec	
As 75		0.1117	1.368E-03	30.0071	94%	0.3639	ppb	1.2128
Cd 111	<	0.0844	1.481E-03	24.3953	97%	0.4284	ppb	1.7563
In 115		154953	425.6092				ions/sec	
Pb 208	<	0.8634	2.273E-03	33.8794	97%	0.0891	ppb	0.2631
Bi 209		368586	4085.1035				ions/sec	
Cl 35		119	4.9330					
Ca 44		20331	163.0378					
Ti 47		113905	393.1718					
Br 81		4253	68.3300					
Kr 83		21	7.0946					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-827 MSD PDS
Sample Description:	(0.5:50)(0.1:10) 0.1 ml OF MP1208-09 IN 10 ml
Sample Type:	Sample
Sequence Number:	057
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	20:43:34 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	22725	176.0931	0	0.0000
Ge 73	81473	486.1042	0	0.0000
As 75	9128	116.3414	0	0.0000
Cd 111	13110	143.0807	0	0.0000
In 115	157247	632.7390	0	0.0000
Pb 208	320734	2305.2190	0	0.0000
Bi 209	374688	2294.6882	0	0.0000
Cl 35	113	4.3590	0	0.0000
Ca 44	20534	318.3114	0	0.0000
Ti 47	114951	403.5020	0	0.0000
Br 81	4363	76.3242	0	0.0000
Kr 83	25	5.0332	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.2789	2.161E-03	61.6658	0.4869	ppb	0.7895
Ge 73	<	81473	486.1042			ions/sec	
As 75		0.1120	1.428E-03	30.1009	0.3800	ppb	1.2623
Cd 111		0.0834	9.099E-04	24.1075	0.2632	ppb	1.0916
In 115	<	157247	632.7390			ions/sec	
Pb 208		0.8560	6.152E-03	33.5884	0.2413	ppb	0.7183
Bi 209	<	374688	2294.6882			ions/sec	
Cl 35		113	4.3590				
Ca 44		20534	318.3114				
Ti 47		114951	403.5020				
Br 81		4363	76.3242				
Kr 83		25	5.0332				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCV M1320
Sample Description:	
Sample Type:	Sample
Sequence Number:	058
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	20:46:51 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	37654	910.9846	0	0.0000
Ge 73	85629	1814.8510	0	0.0000
As 75	30481	950.0164	0	0.0000
Cd 111	5478	243.1735	0	0.0000
In 115	164175	3778.5801	0	0.0000
Pb 208	980752	4.459E+04	0	0.0000
Bi 209	400734	1.322E+04	0	0.0000
Cl 35	110	16.0936	0	0.0000
Ca 44	56	8.3267	0	0.0000
Ti 47	353	21.5175	0	0.0000
Br 81	4251	40.5387	0	0.0000
Kr 83	18	6.0828	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		0.4397	0.0106	97.8905	98%	2.3965	ppb	2.4481
Ge 73	<	85629	1814.8510				ions/sec	
As 75		0.3560	0.0111	95.0069	95%	2.9521	ppb	3.1073
Cd 111		0.0334	1.481E-03	9.6454	96%	0.4284	ppb	4.4413
In 115	<	164175	3778.5801				ions/sec	
Pb 208		2.4474	0.1113	95.9969	96%	4.3632	ppb	4.5451
Bi 209	<	400734	1.322E+04				ions/sec	
Cl 35		110	16.0936					
Ca 44		56	8.3267					
Ti 47		353	21.5175					
Br 81		4251	40.5387					
Kr 83		18	6.0828					

000132

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCB
Sample Description:	
Sample Type:	Sample
Sequence Number:	059
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	20:49:19 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	521	23.9801	0	0.0000
Ge 73	85668	635.6476	0	0.0000
As 75	3	3.2719	0	0.0000
Cd 111	9	1.0215	0	0.0000
In 115	163165	747.6415	0	0.0000
Pb 208	1164	213.1835	0	0.0000
Bi 209	396091	3782.6030	0	0.0000
Cl 35	132	1.0000	0	0.0000
Ca 44	12	3.4641	0	0.0000
Ti 47	331	59.4687	0	0.0000
Br 81	4288	30.0937	0	0.0000
Kr 83	22	3.0551	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	<	6.079E-03	2.799E-04	0.2044	0.0631	ppb	30.8418
Ge 73		85668	635.6476			ions/sec	
As 75		3.636E-05	3.819E-05	0.2975	0.0102	ppb	3.4156
Cd 111	<	5.564E-05	6.261E-06	0.0120	1.811E-03	ppb	15.1389
In 115		163165	747.6415			ions/sec	
Pb 208	<	2.938E-03	5.382E-04	0.1343	0.0211	ppb	15.7199
Bi 209		396091	3782.6030			ions/sec	
Cl 35		132	1.0000				
Ca 44		12	3.4641				
Ti 47		331	59.4687				
Br 81		4288	30.0937				
Kr 83		22	3.0551				

000133

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-MB 02/03
Sample Description:	
Sample Type:	Sample
Sequence Number:	060
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	20:52:33 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	1529	5.1955	0	0.0000
Ge 73	77272	897.9922	0	0.0000
As 75	58	12.9831	0	0.0000
Cd 111	23	5.0283	0	0.0000
In 115	154823	948.2113	0	0.0000
Pb 208	6217	229.2215	0	0.0000
Bi 209	429877	4260.6577	0	0.0000
Cl 35	122	11.9304	0	0.0000
Ca 44	193	4.3590	0	0.0000
Ti 47	464	35.8387	0	0.0000
Br 81	4311	76.9284	0	0.0000
Kr 83	14	4.6188	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0198	6.724E-05	3.2913	0.0151	ppb	0.4602
Ge 73	<	77272	897.9922			ions/sec	
As 75		7.494E-04	1.680E-04	0.4873	0.0447	ppb	9.1749
Cd 111		1.478E-04	3.248E-05	0.0386	9.393E-03	ppb	24.3176
In 115	<	154823	948.2113			ions/sec	
Pb 208		0.0145	5.332E-04	0.5862	0.0209	ppb	3.5672
Bi 209	<	429877	4260.6577			ions/sec	
Cl 35		122	11.9304				
Ca 44		193	4.3590				
Ti 47		464	35.8387				
Br 81		4311	76.9284				
Kr 83		14	4.6188				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-SRM 0287
Sample Description:	(0.25:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	061
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	20:55:35 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	4726	113.6792	0	0.0000
Ge 73	84933	1261.0297	0	0.0000
As 75	15342	386.0922	0	0.0000
Cd 111	1143	46.3157	0	0.0000
In 115	164065	2690.0339	0	0.0000
Pb 208	107023	1956.4680	0	0.0000
Bi 209	422683	7985.9639	0	0.0000
Cl 35	127	12.0556	0	0.0000
Ca 44	7572	46.7551	0	0.0000
Ti 47	497	21.7960	0	0.0000
Br 81	4360	63.5989	0	0.0000
Kr 83	17	1.5275	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0556	1.338E-03	11.3687	0.3015	ppb	2.6520
Ge 73	<	84933	1261.0297			ions/sec	
As 75		0.1806	4.546E-03	48.3538	1.2096	ppb	2.5016
Cd 111		6.968E-03	2.823E-04	2.0111	0.0816	ppb	4.0597
In 115	<	164065	2690.0339			ions/sec	
Pb 208		0.2532	4.629E-03	9.9486	0.1815	ppb	1.8246
Bi 209	<	422683	7985.9639			ions/sec	
Cl 35		127	12.0556				
Ca 44		7572	46.7551				
Ti 47		497	21.7960				
Br 81		4360	63.5989				
Kr 83		17	1.5275				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 22599B
Data Set Description:
Parameter File: ISSI

Sample ID: T-828
Sample Description: (0.5:50)(0.1:10)
Sample Type: Sample
Sequence Number: 062
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 20:59:50 Feb 25 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	8822	87.5524	0	0.0000
Ge 73	85230	1247.2428	0	0.0000
As 75	7339	122.0850	0	0.0000
Cd 111	304	11.3544	0	0.0000
In 115	164400	2190.9663	0	0.0000
Pb 208	373898	7410.1592	0	0.0000
Bi 209	401501	6582.0962	0	0.0000
Cl 35	115	9.2916	0	0.0000
Ca 44	322	14.4222	0	0.0000
Ti 47	6270	62.8239	0	0.0000
Br 81	4329	70.1220	0	0.0000
Kr 83	20	4.0415	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. mg/kg	Std. Dev.		% RSD
Zn 66		0.1035	1.027E-03	22.1522 220	0.2314	ppb	1.0446
Ge 73	<	85230	1247.2428			ions/sec	
As 75		0.0861	1.432E-03	23.1994 230	0.3812	ppb	1.6429
Cd 111		1.851E-03	6.907E-05	0.5312 5.4	0.0200	ppb	3.7600
In 115	<	164400	2190.9663			ions/sec	
Pb 208		0.9313	0.0185	36.5393 360	0.7238	ppb	1.9808
Bi 209	<	401501	6582.0962			ions/sec	
Cl 35		115	9.2916				
Ca 44		322	14.4222				
Ti 47		6270	62.8239				
Br 81		4329	70.1220				
Kr 83		20	4.0415				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-828 MD
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	063
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	21:03:36 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	8792	144.4864	0	0.0000
Ge 73	84249	29.9215	0	0.0000
As 75	7017	166.7596	0	0.0000
Cd 111	294	24.6045	0	0.0000
In 115	162407	888.1131	0	0.0000
Pb 208	359214	399.8928	0	0.0000
Bi 209	398960	1405.6251	0	0.0000
Cl 35	117	14.6403	0	0.0000
Ca 44	289	33.6510	0	0.0000
Ti 47	5693	106.3397	0	0.0000
Br 81	4355	144.7244	0	0.0000
Kr 83	20	2.6458	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		0.1044	1.715E-03	22.3423	1% ok	0.3863	ppb	1.7291
Ge 73	<	84249	29.9215				ions/sec	
As 75		0.0833	1.979E-03	22.4489	3% ok	0.5267	ppb	2.3462
Cd 111		1.808E-03	1.515E-04	0.5189	ok	0.0438	ppb	8.4439
In 115	<	162407	888.1131				ions/sec	
Pb 208		0.9004	1.002E-03	35.3286	3% ok	0.0393	ppb	0.1113
Bi 209	<	398960	1405.6251				ions/sec	
Cl 35		117	14.6403					
Ca 44		289	33.6510					
Ti 47		5693	106.3397					
Br 81		4355	144.7244					
Kr 83		20	2.6458					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-829
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	064
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	21:06:51 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	6398	82.5008	0	0.0000
Ge 73	85516	450.8448	0	0.0000
As 75	11657	169.3752	0	0.0000
Cd 111	218	11.8248	0	0.0000
In 115	164031	647.7485	0	0.0000
Pb 208	244476	2498.2180	0	0.0000
Bi 209	397382	3554.9839	0	0.0000
Cl 35	107	12.1656	0	0.0000
Ca 44	216	2.5180	0	0.0000
Ti 47	4824	59.6385	0	0.0000
Br 81	4308	134.6551	0	0.0000
Kr 83	23	2.5166	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. mg/kg	Std. Dev.		% RSD
Zn 66		0.0748	9.647E-04	15.6883 160	0.2173	ppb	1.3852
Ge 73	<	85516	450.8448			ions/sec	
As 75		0.1363	1.981E-03	36.5587 370	0.5270	ppb	1.4416
Cd 111		1.330E-03	7.209E-05	0.3805 3.8	0.0208	ppb	5.4798
In 115	<	164031	647.7485			ions/sec	
Pb 208		0.6152	6.287E-03	24.1456 240	0.2465	ppb	1.0211
Bi 209	<	397382	3554.9839			ions/sec	
Cl 35		107	12.1656				
Ca 44		216	2.5180				
Ti 47		4824	59.6385				
Br 81		4308	134.6551				
Kr 83		23	2.5166				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-830
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	065
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	21:11:23 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	10210	77.4370	0	0.0000
Ge 73	83270	292.4469	0	0.0000
As 75	5417	27.3522	0	0.0000
Cd 111	286	14.2609	0	0.0000
In 115	160781	1241.5039	0	0.0000
Pb 208	379374	1534.4918	0	0.0000
Bi 209	396124	5357.6655	0	0.0000
Cl 35	110	14.3644	0	0.0000
Ca 44	327	3.7873	0	0.0000
Ti 47	4194	25.5081	0	0.0000
Br 81	4335	28.8360	0	0.0000
Kr 83	17	6.5064	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. mg/kg	Std. Dev.		% RSD
Zn 66		0.1226	9.300E-04	26.4536 26	0.2095	ppb	0.7919
Ge 73	<	83270	292.4469			ions/sec	
As 75		0.0651	3.285E-04	17.5978 18	0.0874	ppb	0.4967
Cd 111		1.778E-03	8.870E-05	0.5101 5.1	0.0257	ppb	5.0290
In 115	<	160781	1241.5039			ions/sec	
Pb 208		0.9577	3.874E-03	37.5772 38	0.1519	ppb	0.4043
Bi 209	<	396124	5357.6655			ions/sec	
Cl 35		110	14.3644				
Ca 44		327	3.7873				
Ti 47		4194	25.5081				
Br 81		4335	28.8360				
Kr 83		17	6.5064				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-831
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	066
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	21:13:53 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	20838	87.7505	0	0.0000
Ge 73	85227	187.9944	0	0.0000
As 75	4526	94.2393	0	0.0000
Cd 111	237	24.1487	0	0.0000
In 115	165301	791.1208	0	0.0000
Pb 208	596716	4563.7705	0	0.0000
Bi 209	401959	2022.5198	0	0.0000
Cl 35	111	6.5065	0	0.0000
Ca 44	386	6.5066	0	0.0000
Ti 47	6031	115.5488	0	0.0000
Br 81	4323	68.6372	0	0.0000
Kr 83	15	2.0817	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. mg/kg	Std. Dev.		% RSD
Zn 66		0.2445	1.030E-03	53.9119 540	0.2319	ppb	0.4302
Ge 73	<	85227	187.9944			ions/sec	
As 75		0.0531	1.106E-03	14.4197 149	0.2942	ppb	2.0404
Cd 111		1.432E-03	1.461E-04	0.4102 4.1	0.0423	ppb	10.3011
In 115	<	165301	791.1208			ions/sec	
Pb 208		1.4845	0.0114	58.2364 583	0.4453	ppb	0.7646
Bi 209	<	401959	2022.5198			ions/sec	
Cl 35		111	6.5065				
Ca 44		386	6.5066				
Ti 47		6031	115.5488				
Br 81		4323	68.6372				
Kr 83		15	2.0817				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-832
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	067
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	21:16:45 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	8767	133.3479	0	0.0000
Ge 73	83609	543.0102	0	0.0000
As 75	10975	192.0806	0	0.0000
Cd 111	427	17.5090	0	0.0000
In 115	162610	717.2892	0	0.0000
Pb 208	296948	1971.1644	0	0.0000
Bi 209	396013	840.7537	0	0.0000
Cl 35	97	9.8658	0	0.0000
Ca 44	273	20.0755	0	0.0000
Ti 47	4655	84.7190	0	0.0000
Br 81	4376	64.9736	0	0.0000
Kr 83	20	3.0551	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. mg/kg	Std. Dev.		% RSD
Zn 66		0.1049	1.595E-03	22.4540 22	0.3593	ppb	1.6000
Ge 73	<	83609	543.0102			ions/sec	
As 75		0.1313	2.297E-03	35.2155 35	0.6113	ppb	1.7359
Cd 111	<	2.628E-03	1.077E-04	0.7560 7.6	0.0311	ppb	4.1191
In 115		162610	717.2892			ions/sec	
Pb 208	<	0.7498	4.978E-03	29.4252 29	0.1952	ppb	0.6634
Bi 209		396013	840.7537			ions/sec	
Cl 35		97	9.8658				
Ca 44		273	20.0755				
Ti 47		4655	84.7190				
Br 81		4376	64.9736				
Kr 83		20	3.0551				

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QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCV M1320
Sample Description:	
Sample Type:	Sample
Sequence Number:	068
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	21:19:46 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	37609	323.8539	0	0.0000
Ge 73	84305	375.2538	0	0.0000
As 75	30920	458.3830	0	0.0000
Cd 111	5487	77.8922	0	0.0000
In 115	160506	1200.9784	0	0.0000
Pb 208	976026	1.944E+04	0	0.0000
Bi 209	388023	5332.0776	0	0.0000
Cl 35	113	4.5827	0	0.0000
Ca 44	54	8.8883	0	0.0000
Ti 47	346	20.5180	0	0.0000
Br 81	4267	62.1952	0	0.0000
Kr 83	19	3.5119	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.4461	3.841E-03	99.3233 99%	0.8653	ppb	0.8712
Ge 73	<	84305	375.2538			ions/sec	
As 75		0.3668	5.437E-03	97.8775 98%	1.4468	ppb	1.4781
Cd 111		0.0342	4.853E-04	9.8834 99%	0.1404	ppb	1.4201
In 115	<	160506	1200.9784			ions/sec	
Pb 208		2.5154	0.0501	98.6633 99%	1.9647	ppb	1.9913
Bi 209	<	388023	5332.0776			ions/sec	
Cl 35		113	4.5827				
Ca 44		54	8.8883				
Ti 47		346	20.5180				
Br 81		4267	62.1952				
Kr 83		19	3.5119				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCB
Sample Description:	
Sample Type:	Sample
Sequence Number:	069
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	21:22:45 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	533	16.1804	0	0.0000
Ge 73	84070	107.7716	0	0.0000
As 75	-62	8.6301	0	0.0000
Cd 111	8	1.8400	0	0.0000
In 115	161225	109.6982	0	0.0000
Pb 208	1695	423.1697	0	0.0000
Bi 209	399451	2786.3252	0	0.0000
Cl 35	99	11.1356	0	0.0000
Ca 44	12	7.7675	0	0.0000
Ti 47	299	8.8884	0	0.0000
Br 81	4267	41.0853	0	0.0000
Kr 83	20	5.0332	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	<	6.337E-03	1.925E-04	0.2625 ok	0.0434	ppb	16.5129
Ge 73		84070	107.7716			ions/sec	
As 75		-7.413E-04	1.027E-04	0.0906	0.0273	ppb	30.1505
Cd 111	<	5.180E-05	1.141E-05	0.0109	3.301E-03	ppb	30.4159
In 115		161225	109.6982			ions/sec	
Pb 208	<	4.244E-03	1.059E-03	0.1855	0.0415	ppb	22.3988
Bi 209		399451	2786.3252			ions/sec	
Cl 35		99	11.1356				
Ca 44		12	7.7675				
Ti 47		299	8.8884				
Br 81		4267	41.0853				
Kr 83		20	5.0332				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-834
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	070
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	21:25:28 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	28822	74.6360	0	0.0000
Ge 73	84126	451.1587	0	0.0000
As 75	144325	450.4724	0	0.0000
Cd 111	826	18.1122	0	0.0000
In 115	161733	802.6294	0	0.0000
Pb 208	2976328	2.484E+04	0	0.0000
Bi 209	398955	2305.8325	0	0.0000
Cl 35	117	4.1634	0	0.0000
Ca 44	1222	26.2765	0	0.0000
Ti 47	5979	60.2258	0	0.0000
Br 81	4297	100.4509	0	0.0000
Kr 83	18	3.6055	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. mg/kg	Std. Dev.		% RSD
Zn 66		0.3426	8.872E-04	76.0098 76	0.1998	ppb	0.2629
Ge 73	<	84126	451.1587			ions/sec	
As 75		1.7156	5.355E-03	456.7823 46	1.4248	ppb	0.3119
Cd 111		5.105E-03	1.120E-04	1.4724 1.5	0.0324	ppb	2.1997
In 115	<	161733	802.6294			ions/sec	
Pb 208		7.4603	0.0623	292.5854 290	2.4420	ppb	0.8346
Bi 209	<	398955	2305.8325			ions/sec	
Cl 35		117	4.1634				
Ca 44		1222	26.2765				
Ti 47		5979	60.2258				
Br 81		4297	100.4509				
Kr 83		18	3.6055				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-834 DIL.TEST
Sample Description:	(0.5:50)(0.1:10)(2:10)
Sample Type:	Sample
Sequence Number:	071
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	21:30:52 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	6410	74.7871	0	0.0000
Ge 73	83818	464.6777	0	0.0000
As 75	28197	227.0599	0	0.0000
Cd 111	157	12.0190	0	0.0000
In 115	160596	346.9771	0	0.0000
Pb 208	604865	1.167E+04	0	0.0000
Bi 209	397528	5275.5850	0	0.0000
Cl 35	118	13.5032	0	0.0000
Ca 44	246	10.4085	0	0.0000
Ti 47	1402	33.2021	0	0.0000
Br 81	4268	38.0115	0	0.0000
Kr 83	19	1.7320	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		0.0765	8.923E-04	16.0604	5% RSD	0.2010	ppb	1.2515
Ge 73	<	83818	464.6777				ions/sec	
As 75		0.3364	2.709E-03	89.8024	2% RSD	0.7208	ppb	0.8027
Cd 111		9.749E-04	7.484E-05	0.2778	6% RSD	0.0216	ppb	7.7909
In 115	<	160596	346.9771				ions/sec	
Pb 208		1.5216	0.0294	59.6893	2% RSD	1.1517	ppb	1.9294
Bi 209	<	397528	5275.5850				ions/sec	
Cl 35		118	13.5032					
Ca 44		246	10.4085					
Ti 47		1402	33.2021					
Br 81		4268	38.0115					
Kr 83		19	1.7320					

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QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-835
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	072
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	21:35:56 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	5677	12.1407	0	0.0000
Ge 73	81705	487.8404	0	0.0000
As 75	2183	41.9108	0	0.0000
Cd 111	96	3.9487	0	0.0000
In 115	156892	573.7975	0	0.0000
Pb 208	96096	556.4767	0	0.0000
Bi 209	384852	447.1307	0	0.0000
Cl 35	116	4.9328	0	0.0000
Ca 44	220	4.6181	0	0.0000
Ti 47	4388	55.7527	0	0.0000
Br 81	4313	70.1376	0	0.0000
Kr 83	16	0.5773	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0695	1.486E-04	14.4861	0.0335	ppb	0.2311
Ge 73	<	81705	487.8404			ions/sec	
As 75		0.0267	5.130E-04	7.3971	0.1365	ppb	1.8452
Cd 111		6.111E-04	2.517E-05	0.1726	7.279E-03	ppb	4.2170
In 115	<	156892	573.7975			ions/sec	
Pb 208		0.2497	1.446E-03	9.8112	0.0567	ppb	0.5780
Bi 209	<	384852	447.1307			ions/sec	
Cl 35		116	4.9328				
Ca 44		220	4.6181				
Ti 47		4388	55.7527				
Br 81		4313	70.1376				
Kr 83		16	0.5773				

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QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 22599B
Data Set Description:
Parameter File: ISSI

Sample ID: T-836
Sample Description: (0.5:50)(0.1:10)
Sample Type: Sample
Sequence Number: 073
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 21:39:15 Feb 25 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

		Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66		6791	67.2940	0	0.0000
Ge 73		83334	540.6601	0	0.0000
As 75		2656	37.1769	0	0.0000
Cd 111		302	46.7246	0	0.0000
In 115	>	146316	2.493E+04	0	0.0000
Pb 208		607786	7337.2573	0	0.0000
Bi 209		397885	3527.3281	0	0.0000
Cl 35		113	7.2344	0	0.0000
Ca 44		500	27.4658	0	0.0000
Ti 47		4373	56.8229	0	0.0000
Br 81		4372	70.5930	0	0.0000
Kr 83		18	4.0415	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. ms/lis	Std. Dev.		% RSD
Zn 66		0.0815	8.075E-04	17.1909 17	0.1819	ppb	1.0581
Ge 73	<	83334	540.6601			ions/sec	
As 75		0.0319	4.461E-04	8.7698 98	0.1187	ppb	1.3536
Cd 111		2.063E-03	3.193E-04	0.5925 5.9	0.0924	ppb	15.5875
In 115	<	146316	2.493E+04			ions/sec	
Pb 208		1.5275	0.0184	59.9237 600	0.7232	ppb	1.2068
Bi 209	<	397885	3527.3281			ions/sec	
Cl 35		113	7.2344				
Ca 44		500	27.4658				
Ti 47		4373	56.8229				
Br 81		4372	70.5930				
Kr 83		18	4.0415				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-837
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	074
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	21:43:05 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	9610	275.2645	0	0.0000
Ge 73	81103	187.8954	0	0.0000
As 75	764	72.0005	0	0.0000
Cd 111	134	10.4030	0	0.0000
In 115	156465	824.0745	0	0.0000
Pb 208	98917	1401.0333	0	0.0000
Bi 209	381368	6514.1167	0	0.0000
Cl 35	113	9.2378	0	0.0000
Ca 44	280	9.0744	0	0.0000
Ti 47	5323	38.6744	0	0.0000
Br 81	4265	49.9240	0	0.0000
Kr 83	20	2.6458	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. µg/kg	Std. Dev.		% RSD
Zn 66		0.1185	3.394E-03	25.5249 26	0.7645	ppb	2.9952
Ge 73	<	81103	187.8954			ions/sec	
As 75		9.421E-03	8.878E-04	2.7948 2.8	0.2362	ppb	8.4523
Cd 111		8.576E-04	6.649E-05	0.2439 2.4	0.0192	ppb	7.8844
In 115	<	156465	824.0745			ions/sec	
Pb 208		0.2594	3.674E-03	10.1908 10.2	0.1441	ppb	1.4137
Bi 209	<	381368	6514.1167			ions/sec	
Cl 35		113	9.2378				
Ca 44		280	9.0744				
Ti 47		5323	38.6744				
Br 81		4265	49.9240				
Kr 83		20	2.6458				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-838
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	075
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	21:45:55 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	9148	247.4649	0	0.0000
Ge 73	82312	1669.5719	0	0.0000
As 75	5159	155.3902	0	0.0000
Cd 111	319	31.1268	0	0.0000
In 115	158814	2787.4573	0	0.0000
Pb 208	861437	1.858E+04	0	0.0000
Bi 209	387196	1.122E+04	0	0.0000
Cl 35	109	7.3713	0	0.0000
Ca 44	289	7.0001	0	0.0000
Ti 47	5736	74.1823	0	0.0000
Br 81	4250	41.2807	0	0.0000
Kr 83	22	3.2146	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. ms/kg	Std. Dev.		% RSD
Zn 66		0.1111	3.006E-03	23.8705 24ø	0.6772	ppb	2.8371
Ge 73	<]	82312	1669.5719			ions/sec	
As 75		0.0627	1.888E-03	16.9645 17ø	0.5023	ppb	2.9611
Cd 111		2.009E-03	1.960E-04	0.5770 5.8	0.0567	ppb	9.8239
In 115	<]	158814	2787.4573			ions/sec	
Pb 208		2.2248	0.0480	87.2679 87ø	1.8818	ppb	2.1564
Bi 209	<]	387196	1.122E+04			ions/sec	
Cl 35		109	7.3713				
Ca 44		289	7.0001				
Ti 47		5736	74.1823				
Br 81		4250	41.2807				
Kr 83		22	3.2146				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-839
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	076
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	21:48:20 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	5604	51.3676	0	0.0000
Ge 73	82784	448.1994	0	0.0000
As 75	5076	50.8786	0	0.0000
Cd 111	135	10.0381	0	0.0000
In 115	159372	757.4079	0	0.0000
Pb 208	151563	1925.1837	0	0.0000
Bi 209	389420	1747.9404	0	0.0000
Cl 35	101	3.0551	0	0.0000
Ca 44	145	37.4481	0	0.0000
Ti 47	5741	184.4361	0	0.0000
Br 81	4254	25.2052	0	0.0000
Kr 83	22	1.0000	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. ms/115	Std. Dev.		% RSD
Zn 66		0.0677	6.205E-04	14.0848 140	0.1398	ppb	0.9924
Ge 73	<	82784	448.1994			ions/sec	
As 75		0.0613	6.146E-04	16.6018 170	0.1635	ppb	0.9850
Cd 111		8.480E-04	6.299E-05	0.2411 2.4	0.0182	ppb	7.5549
In 115	<	159372	757.4079			ions/sec	
Pb 208		0.3892	4.944E-03	15.2821 150	0.1939	ppb	1.2686
Bi 209	<	389420	1747.9404			ions/sec	
Cl 35		101	3.0551				
Ca 44		145	37.4481				
Ti 47		5741	184.4361				
Br 81		4254	25.2052				
Kr 83		22	1.0000				

000150

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-840
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	077
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	21:53:27 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	10055	431.1547	0	0.0000
Ge 73	82521	1579.4886	0	0.0000
As 75	10850	371.5612	0	0.0000
Cd 111	420	18.8980	0	0.0000
In 115	159536	3527.7654	0	0.0000
Pb 208	382184	1.060E+04	0	0.0000
Bi 209	386481	8983.4336	0	0.0000
Cl 35	115	10.9697	0	0.0000
Ca 44	563	4.5132	0	0.0000
Ti 47	3271	65.0297	0	0.0000
Br 81	4317	75.1907	0	0.0000
Kr 83	18	4.5092	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. ~~mg~~ µg/L	Std. Dev.		% RSD
Zn 66		0.1218	5.225E-03	26.2816 26.0	1.1769	ppb	4.4781
Ge 73	<	82521	1579.4886			ions/sec	
As 75		0.1315	4.503E-03	35.2747 35.0	1.1981	ppb	3.3965
Cd 111		2.633E-03	1.185E-04	0.7572 7.6	0.0343	ppb	4.5243
In 115	<	159536	3527.7654			ions/sec	
Pb 208		0.9889	0.0274	38.7994 39.0	1.0754	ppb	2.7718
Bi 209	<	386481	8983.4336			ions/sec	
Cl 35		115	10.9697				
Ca 44		563	4.5132				
Ti 47		3271	65.0297				
Br 81		4317	75.1907				
Kr 83		18	4.5092				

000151

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-841
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	078
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	21:56:23 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	14836	234.8408	0	0.0000
Ge 73	82103	278.0575	0	0.0000
As 75	15526	158.1652	0	0.0000
Cd 111	366	13.8154	0	0.0000
In 115	157171	978.6433	0	0.0000
Pb 208	606596	7501.8970	0	0.0000
Bi 209	384073	2966.1719	0	0.0000
Cl 35	113	13.7962	0	0.0000
Ca 44	439	19.6563	0	0.0000
Ti 47	5027	16.6592	0	0.0000
Br 81	4404	57.0456	0	0.0000
Kr 83	26	2.0817	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. mg/kg	Std. Dev.		% RSD
Zn 66		0.1807	2.860E-03	39.5407 400	0.6443	ppb	1.6295
Ge 73	<	82103	278.0575			ions/sec	
As 75		0.1891	1.926E-03	50.6057 510	0.5126	ppb	1.0129
Cd 111		2.331E-03	8.790E-05	0.6701 6.7	0.0254	ppb	3.7940
In 115	<	157171	978.6433			ions/sec	
Pb 208		1.5794	0.0195	61.9564 620	0.7660	ppb	1.2363
Bi 209	<	384073	2966.1719			ions/sec	
Cl 35		113	13.7962				
Ca 44		439	19.6563				
Ti 47		5027	16.6592				
Br 81		4404	57.0456				
Kr 83		26	2.0817				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCV M1320
Sample Description:	
Sample Type:	Sample
Sequence Number:	079
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	22:01:08 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	37584	119.4228	0	0.0000
Ge 73	83107	296.1497	0	0.0000
As 75	30421	430.7426	0	0.0000
Cd 111	5375	72.1950	0	0.0000
In 115	159775	695.2000	0	0.0000
Pb 208	967583	1.124E+04	0	0.0000
Bi 209	381811	2823.4810	0	0.0000
Cl 35	104	9.4517	0	0.0000
Ca 44	49	0.9998	0	0.0000
Ti 47	314	3.0551	0	0.0000
Br 81	4317	80.6406	0	0.0000
Kr 83	20	2.6458	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		0.4522	1.437E-03	100.7060	101%	0.3237	ppb	0.3214
Ge 73	<	83107	296.1497				ions/sec	
As 75		0.3661	5.183E-03	97.6901	98%	1.3791	ppb	1.4117
Cd 111		0.0336	4.519E-04	9.7252	97%	0.1307	ppb	1.3437
In 115	<	159775	695.2000				ions/sec	
Pb 208		2.5342	0.0294	99.4011	99%	1.1547	ppb	1.1616
Bi 209	<	381811	2823.4810				ions/sec	
Cl 35		104	9.4517					
Ca 44		49	0.9998					
Ti 47		314	3.0551					
Br 81		4317	80.6406					
Kr 83		20	2.6458					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCB
Sample Description:	
Sample Type:	Sample
Sequence Number:	080
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	22:04:17 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	561	34.0573	0	0.0000
Ge 73	82718	344.1642	0	0.0000
As 75	-36	45.8419	0	0.0000
Cd 111	5	5.0340	0	0.0000
In 115	159191	507.7100	0	0.0000
Pb 208	1551	438.9962	0	0.0000
Bi 209	385353	3236.2561	0	0.0000
Cl 35	114	10.5358	0	0.0000
Ca 44	8	2.0817	0	0.0000
Ti 47	293	10.6929	0	0.0000
Br 81	4244	107.5997	0	0.0000
Kr 83	15	2.0817	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	<	6.783E-03	4.117E-04	0.3631 ok	0.0927	ppb	25.5456
Ge 73		82718	344.1642			ions/sec	
As 75		-4.356E-04	5.542E-04	0.1719	0.1475	ppb	85.7598
Cd 111	<	2.987E-05	3.162E-05	4.510E-03	9.146E-03	ppb	202.8039
In 115		159191	507.7100			ions/sec	
Pb 208	<	4.025E-03	1.139E-03	0.1769	0.0447	ppb	25.2591
Bi 209		385353	3236.2561			ions/sec	
Cl 35		114	10.5358				
Ca 44		8	2.0817				
Ti 47		293	10.6929				
Br 81		4244	107.5997				
Kr 83		15	2.0817				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-842
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	081
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	22:06:55 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	4267	49.9186	0	0.0000
Ge 73	81695	621.6868	0	0.0000
As 75	6137	65.4532	0	0.0000
Cd 111	248	9.2792	0	0.0000
In 115	157525	1168.1067	0	0.0000
Pb 208	355499	1312.4659	0	0.0000
Bi 209	390291	710.1244	0	0.0000
Cl 35	111	9.8489	0	0.0000
Ca 44	317	22.0532	0	0.0000
Ti 47	4898	36.0949	0	0.0000
Br 81	4257	67.4474	0	0.0000
Kr 83	21	2.0817	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. mg/kg	Std. Dev.		% RSD
Zn 66		0.0522	6.110E-04	10.6001 110	0.1376	ppb	1.2985
Ge 73	<	81695	621.6868			ions/sec	
As 75		0.0751	8.012E-04	20.2783 20	0.2132	ppb	1.0513
Cd 111		1.575E-03	5.891E-05	0.4513 4.5	0.0170	ppb	3.7749
In 115	<	157525	1168.1067			ions/sec	
Pb 208		0.9109	3.363E-03	35.7395 360	0.1319	ppb	0.3690
Bi 209	<	390291	710.1244			ions/sec	
Cl 35		111	9.8489				
Ca 44		317	22.0532				
Ti 47		4898	36.0949				
Br 81		4257	67.4474				
Kr 83		21	2.0817				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-843
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	082
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	22:09:48 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	22949	208.4629	0	0.0000
Ge 73	83177	498.2875	0	0.0000
As 75	22184	281.2488	0	0.0000
Cd 111	1090	12.7126	0	0.0000
In 115	161073	336.1263	0	0.0000
Pb 208	1030971	1.039E+04	0	0.0000
Bi 209	395728	3362.1558	0	0.0000
Cl 35	109	6.0829	0	0.0000
Ca 44	625	37.6353	0	0.0000
Ti 47	5975	76.2878	0	0.0000
Br 81	4220	88.8688	0	0.0000
Kr 83	18	8.1854	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.2759	2.506E-03	60.9850	0.5646	ppb	0.9257
Ge 73	<	83177	498.2875			ions/sec	
As 75		0.2667	3.381E-03	71.2566	0.8997	ppb	1.2627
Cd 111		6.770E-03	7.892E-05	1.9538	0.0228	ppb	1.1683
In 115	<	161073	336.1263			ions/sec	
Pb 208		2.6053	0.0262	102.1877	1.0292	ppb	1.0072
Bi 209	<	395728	3362.1558			ions/sec	
Cl 35		109	6.0829				
Ca 44		625	37.6353				
Ti 47		5975	76.2878				
Br 81		4220	88.8688				
Kr 83		18	8.1854				

000156

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 22599B
Data Set Description:
Parameter File: ISSI

Sample ID: T-844
Sample Description: (0.5:50)(0.1:10)
Sample Type: Sample
Sequence Number: 083
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 22:12:37 Feb 25 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	12026	133.7644	0	0.0000
Ge 73	80524	340.8922	0	0.0000
As 75	11543	135.7363	0	0.0000
Cd 111	307	11.9597	0	0.0000
In 115	154934	678.8840	0	0.0000
Pb 208	298763	4128.7363	0	0.0000
Bi 209	383065	4932.0742	0	0.0000
Cl 35	116	6.5065	0	0.0000
Ca 44	733	4.0361	0	0.0000
Ti 47	6409	31.3063	0	0.0000
Br 81	4398	28.7922	0	0.0000
Kr 83	18	1.5275	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.1494	1.661E-03	32.4779	0.3742	ppb	1.1522
Ge 73	<	80524	340.8922			ions/sec	
As 75		0.1433	1.686E-03	38.4302	0.4485	ppb	1.1671
Cd 111		1.984E-03	7.719E-05	0.5695	0.0223	ppb	3.9199
In 115	<	154934	678.8840			ions/sec	
Pb 208		0.7799	0.0108	30.6049	0.4227	ppb	1.3811
Bi 209	<	383065	4932.0742			ions/sec	
Cl 35		116	6.5065				
Ca 44		733	4.0361				
Ti 47		6409	31.3063				
Br 81		4398	28.7922				
Kr 83		18	1.5275				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-845
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	084
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	22:17:53 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	7799	119.4420	0	0.0000
Ge 73	83208	413.9391	0	0.0000
As 75	96475	650.5412	0	0.0000
Cd 111	462	11.0099	0	0.0000
In 115	161089	915.8591	0	0.0000
Pb 208	1097315	7804.0625	0	0.0000
Bi 209	393789	2269.9395	0	0.0000
Cl 35	102	20.2979	0	0.0000
Ca 44	465	22.5032	0	0.0000
Ti 47	5198	37.9918	0	0.0000
Br 81	4307	120.1985	0	0.0000
Kr 83	14	3.5119	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	<	0.0937	1.435E-03	19.9483	0.3234	ppb	1.6209
Ge 73		83208	413.9391			ions/sec	
As 75		1.1594	7.818E-03	308.8023	2.0803	ppb	0.6737
Cd 111	<	2.869E-03	6.835E-05	0.8255	0.0198	ppb	2.3946
In 115		161089	915.8591			ions/sec	
Pb 208	<	2.7866	0.0198	109.2975	0.7772	ppb	0.7111
Bi 209		393789	2269.9395			ions/sec	
Cl 35		102	20.2979				
Ca 44		465	22.5032				
Ti 47		5198	37.9918				
Br 81		4307	120.1985				
Kr 83		14	3.5119				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 22599B
Data Set Description:
Parameter File: ISSI

Sample ID: T-846
Sample Description: (0.5:50)(0.1:10)
Sample Type: Sample
Sequence Number: 085
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 22:20:18 Feb 25 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	533663	3896.4307	0	0.0000
Ge 73	81824	382.9719	0	0.0000
As 75	1970	50.3669	0	0.0000
Cd 111	17044	155.4718	0	0.0000
In 115	157439	782.9420	0	0.0000
Pb 208	3086589	2.418E+04	0	0.0000
Bi 209	384691	4513.2876	0	0.0000
Cl 35	101	9.5393	0	0.0000
Ca 44	3314	8.5460	0	0.0000
Ti 47	10433	99.2047	0	0.0000
Br 81	4584	177.6973	0	0.0000
Kr 83	26	1.1547	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc. mg/kg	Std. Dev.		% RSD
Zn 66		6.5221	0.0476	1467.9874 DNP	10.7267	ppb	0.7307
Ge 73	<	81824	382.9719			ions/sec	
As 75		0.0241	6.156E-04	6.6936 67	0.1638	ppb	2.4470
Cd 111	<	0.1083	9.875E-04	31.3058 310	0.2856	ppb	0.9123
In 115		157439	782.9420			ions/sec	
Pb 208	<	8.0235	0.0629	314.6736 3100	2.4652	ppb	0.7834
Bi 209		384691	4513.2876			ions/sec	
Cl 35		101	9.5393				
Ca 44		3314	8.5460				
Ti 47		10433	99.2047				
Br 81		4584	177.6973				
Kr 83		26	1.1547				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 22599B
Data Set Description:
Parameter File: ISSI

Sample ID: T-846 MS PDS
Sample Description: (0.5:50)(0.1:10) 0.1 ml OF MP1208-09 IN 10 ml
Sample Type: Sample
Sequence Number: 086
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 22:24:30 Feb 25 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	491823	5695.5732	0	0.0000
Ge 73	80147	945.0502	0	0.0000
As 75	9291	277.0335	0	0.0000
Cd 111	28807	203.3915	0	0.0000
In 115	154933	1389.8788	0	0.0000
Pb 208	3000685	7.631E+04	0	0.0000
Bi 209	370841	7851.5356	0	0.0000
Cl 35	109	14.3644	0	0.0000
Ca 44	23448	88.3396	0	0.0000
Ti 47	123981	805.2790	0	0.0000
Br 81	4544	36.0839	0	0.0000
Kr 83	27	12.2202	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		6.1365	0.0711	1381.1310	brt	16.0077	ppb	1.1590
Ge 73	<	80147	945.0502				ions/sec	
As 75		0.1159	3.457E-03	31.1345	98%	0.9197	ppb	2.9541
Cd 111		0.1859	1.313E-03	53.7697	9-%	0.3797	ppb	0.7061
In 115	<	154933	1389.8788				ions/sec	
Pb 208		8.0916	0.2058	317.3413	1/4 RD	8.0699	ppb	2.5430
Bi 209	<	370841	7851.5356				ions/sec	
Cl 35		109	14.3644					
Ca 44		23448	88.3396					
Ti 47		123981	805.2790					
Br 81		4544	36.0839					
Kr 83		27	12.2202					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 22599B
Data Set Description:
Parameter File: ISSI

Sample ID: T-846 MSD PDS
Sample Description: (0.5:50)(0.1:10) 0.1 ml OF MP1208-09 IN 10 ml
Sample Type: Sample
Sequence Number: 087
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 22:28:10 Feb 25 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	491038	1517.6583	0	0.0000
Ge 73	82665	507.1707	0	0.0000
As 75	9525	96.7341	0	0.0000
Cd 111	28639	158.2460	0	0.0000
In 115	159158	558.9366	0	0.0000
Pb 208	2984515	1697.2990	0	0.0000
Bi 209	375391	2333.7417	0	0.0000
Cl 35	109	19.8580	0	0.0000
Ca 44	23238	189.2537	0	0.0000
Ti 47	123692	503.3964	0	0.0000
Br 81	4616	50.2482	0	0.0000
Kr 83	30	3.5119	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		5.9401	0.0184	1336.8817	—	4.1355	ppb	0.3093
Ge 73	<	82665	507.1707				ions/sec	
As 75		0.1152	1.170E-03	30.9482	1/ppb	0.3114	ppb	1.0061
Cd 111	<	0.1799	9.943E-04	52.0373	3/ppb	0.2876	ppb	0.5526
In 115		159158	558.9366				ions/sec	
Pb 208	<	7.9504	4.521E-03	311.8060	2/ppb	0.1773	ppb	0.0569
Bi 209		375391	2333.7417				ions/sec	
Cl 35		109	19.8580					
Ca 44		23238	189.2537					
Ti 47		123692	503.3964					
Br 81		4616	50.2482					
Kr 83		30	3.5119					

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QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-846
Sample Description:	(0.5:50)(0.1:10)(1:10)
Sample Type:	Sample
Sequence Number:	088
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	22:31:29 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	58043	328.6507	0	0.0000
Ge 73	84693	609.4180	0	0.0000
As 75	182	3.4407	0	0.0000
Cd 111	1806	13.1483	0	0.0000
In 115	162067	1154.0875	0	0.0000
Pb 208	340879	2863.4575	0	0.0000
Bi 209	397190	4295.8286	0	0.0000
Cl 35	105	10.2633	0	0.0000
Ca 44	360	25.1601	0	0.0000
Ti 47	1478	34.0845	0	0.0000
Br 81	4371	42.4967	0	0.0000
Kr 83	19	6.6583	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.6853	3.880E-03	153.2126	0.8741	ppb	0.5705
Ge 73	<	84693	609.4180			ions/sec	
As 75		2.151E-03	4.063E-05	0.8603	0.0108	ppb	1.2566
Cd 111		0.0111	8.113E-05	3.2187	0.0235	ppb	0.7290
In 115	<	162067	1154.0875			ions/sec	
Pb 208		0.8582	7.209E-03	33.6755	0.2827	ppb	0.8395
Bi 209	<	397190	4295.8286			ions/sec	
Cl 35		105	10.2633				
Ca 44		360	25.1601				
Ti 47		1478	34.0845				
Br 81		4371	42.4967				
Kr 83		19	6.6583				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-846 MS PDS
Sample Description:	(0.5:50)(0.1:10)(1:10) 0.1 ml OF MP1208-09 IN 10ml
Sample Type:	Sample
Sequence Number:	089
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	22:35:05 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

		Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66		67821	1006.1195	0	0.0000
Ge 73		83646	609.1183	0	0.0000
As 75		7504	21.3352	0	0.0000
Cd 111		14556	1890.8671	0	0.0000
In 115	>	149886	1.813E+04	0	0.0000
Pb 208		519953	1955.5715	0	0.0000
Bi 209		378258	684.4529	0	0.0000
Cl 35		106	7.3711	0	0.0000
Ca 44		20365	317.8096	0	0.0000
Ti 47		112904	1419.0929	0	0.0000
Br 81		4422	105.7211	0	0.0000
Kr 83		36	8.6217	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.8108	0.0120	181.4769 113%	2.7095	ppb	1.4930
Ge 73	<	83646	609.1183			ions/sec	
As 75		0.0897	2.551E-04	24.1595	0.0679	ppb	0.2809
Cd 111		0.0971	0.0126	28.0820	3.6485	ppb	12.9923
In 115	<	149886	1.813E+04			ions/sec	
Pb 208		1.3746	5.170E-03	53.9258	0.2027	ppb	0.3760
Bi 209	<	378258	684.4529			ions/sec	
Cl 35		106	7.3711				
Ca 44		20365	317.8096				
Ti 47		112904	1419.0929				
Br 81		4422	105.7211				
Kr 83		36	8.6217				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 22599B
Data Set Description:
Parameter File: ISSI

Sample ID: T-846 MSD PDS
Sample Description: (0.5:50)(0.1:10)(1:10) 0.1 ml OF MP1208-09 IN 10ml
Sample Type: Sample
Sequence Number: 090
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 22:39:09 Feb 25 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	68622	886.8943	0	0.0000
Ge 73	82811	657.1948	0	0.0000
As 75	7531	201.9373	0	0.0000
Cd 111	14670	172.4136	0	0.0000
In 115	159552	1743.3522	0	0.0000
Pb 208	520148	1342.8871	0	0.0000
Bi 209	373276	964.1038	0	0.0000
Cl 35	106	11.9305	0	0.0000
Ca 44	20737	165.9267	0	0.0000
Ti 47	114131	212.8216	0	0.0000
Br 81	4454	172.9953	0	0.0000
Kr 83	23	5.2915	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.8287	0.0107	185.4968	2.4125	ppb	1.3005
Ge 73	<	82811	657.1948			ions/sec	
As 75		0.0909	2.439E-03	24.4876	0.6489	ppb	2.6498
Cd 111		0.0919	1.081E-03	26.5871	0.3125	ppb	1.1755
In 115	<	159552	1743.3522			ions/sec	
Pb 208		1.3935	3.598E-03	54.6658	0.1411	ppb	0.2581
Bi 209	<	373276	964.1038			ions/sec	
Cl 35		106	11.9305				
Ca 44		20737	165.9267				
Ti 47		114131	212.8216				
Br 81		4454	172.9953				
Kr 83		23	5.2915				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCV M1320
Sample Description:	
Sample Type:	Sample
Sequence Number:	091
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	22:41:49 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	38474	554.1122	0	0.0000
Ge 73	85095	710.6503	0	0.0000
As 75	31786	399.5067	0	0.0000
Cd 111	5564	50.6534	0	0.0000
In 115	163195	1281.2754	0	0.0000
Pb 208	989088	3376.2119	0	0.0000
Bi 209	387501	4081.9600	0	0.0000
Cl 35	97	4.1634	0	0.0000
Ca 44	59	6.5575	0	0.0000
Ti 47	366	20.8167	0	0.0000
Br 81	4502	93.4216	0	0.0000
Kr 83	24	5.1316	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.4521	6.512E-03	100.6820 101%	1.4668	ppb	1.4569
Ge 73	<	85095	710.6503			ions/sec	
As 75		0.3735	4.695E-03	99.6797 100%	1.2492	ppb	1.2533
Cd 111		0.0341	3.104E-04	9.8565 99%	0.0898	ppb	0.9107
In 115	<	163195	1281.2754			ions/sec	
Pb 208		2.5525	8.713E-03	100.1181 100%	0.3417	ppb	0.3413
Bi 209	<	387501	4081.9600			ions/sec	
Cl 35		97	4.1634				
Ca 44		59	6.5575				
Ti 47		366	20.8167				
Br 81		4502	93.4216				
Kr 83		24	5.1316				

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QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 22599B
Data Set Description:
Parameter File: ISSI

Sample ID: CCB
Sample Description:
Sample Type: Sample
Sequence Number: 092
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 22:44:46 Feb 25 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	541	6.7354	0	0.0000
Ge 73	85757	577.4237	0	0.0000
As 75	-27	43.3179	0	0.0000
Cd 111	14	3.3297	0	0.0000
In 115	164622	2328.8879	0	0.0000
Pb 208	1545	467.3101	0	0.0000
Bi 209	396279	6924.1968	0	0.0000
Cl 35	111	12.4901	0	0.0000
Ca 44	13	4.0000	0	0.0000
Ti 47	307	24.9872	0	0.0000
Br 81	4439	114.3694	0	0.0000
Kr 83	19	4.9329	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66	]	6.313E-03	7.854E-05	0.2572	ok	0.0177	ppb	6.8798
Ge 73	<	85757	577.4237				ions/sec	
As 75	]	-3.093E-04	5.051E-04	0.2056		0.1344	ppb	65.3859
Cd 111	]	8.654E-05	2.023E-05	0.0209		5.850E-03	ppb	27.9926
In 115	<	164622	2328.8879				ions/sec	
Pb 208	]	3.900E-03	1.179E-03	0.1720		0.0462	ppb	26.8907
Bi 209	<	396279	6924.1968				ions/sec	
Cl 35		111	12.4901					
Ca 44		13	4.0000					
Ti 47		307	24.9872					
Br 81		4439	114.3694					
Kr 83		19	4.9329					

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QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	22599B
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-MB 02-03
Sample Description:	
Sample Type:	Sample
Sequence Number:	093
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	22:47:27 Feb 25 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	1752	64.4865	0	0.0000
Ge 73	77202	570.5637	0	0.0000
As 75	22	8.2902	0	0.0000
Cd 111	19	6.5994	0	0.0000
In 115	157456	1580.3879	0	0.0000
Pb 208	6126	193.5411	0	0.0000
Bi 209	437650	7885.5454	0	0.0000
Cl 35	110	12.2883	0	0.0000
Ca 44	195	17.5216	0	0.0000
Ti 47	520	28.0421	0	0.0000
Br 81	4341	12.5914	0	0.0000
Kr 83	15	3.6056	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0227	8.353E-04	3.9478	0.1882	ppb	4.7662
Ge 73	<	77202	570.5637			ions/sec	
As 75		2.837E-04	1.074E-04	0.3633	0.0286	ppb	7.8640
Cd 111		1.195E-04	4.191E-05	0.0304	0.0121	ppb	39.8245
In 115	<	157456	1580.3879			ions/sec	
Pb 208		0.0140	4.422E-04	0.5680	0.0173	ppb	3.0535
Bi 209	<	437650	7885.5454			ions/sec	
Cl 35		110	12.2883				
Ca 44		195	17.5216				
Ti 47		520	28.0421				
Br 81		4341	12.5914				
Kr 83		15	3.6056				

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Acculabs Inc. F8625 Rev. B

Date: 3.1.99 99A 833 only

Analyst: m.n

AL # 27907 PART, 28540, 28543, 28548, 28565, 28577, 28593, 28580, 28594, 28611, 28616, 28619, 28708, 28665, 28673

Zinc are ~~not~~ results reported for Feb 3rd/99 rest were redilutes and reanalyzed.

ICP-MS COVER SHEET

Perkin-Elmer/Sciex Elan 5000 Control #I073

Procedure #I09029___ EPA Method 200.8

Procedure #I09035 A SW846 Method 6020

Std. Prep Log #	Expiration Date	
		Blank
		Std#1
m30506	3.2.99	10.0 ppb As, Ba, Be, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn 1.0 ppb, Ag, Cd, Th, U
m30507	3.2.99	Std#2 200.0 ppb As, Ba, Be, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn 20.0 ppb, Ag, Cd, Th, U
–	–	MSG Std#1 10 ppb Ag, As, Bi, Cd, Cu, Pb, Sb, Sn
–	–	MSG Std#2 200 ppb Ag, As, Bi, Cd, Cu, Pb, Sb, Sn
–	–	LiCs Std#1 10 ppb
–	–	LiCs Std#2 200 ppb
–	–	Other:
		Calibration Verification
m13.20	3.10.99	ICP-MS CV 100 ppb As,Ba,Be, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se,Th, Tl, V, Zn 10 ppb, Ag, Cd, U
–	–	MSG-CV 100 ppb Ag, As, Bi, Cd, Cu, Pb, Sb, Sn
–	–	Other:

Method Detection Limits (μ/L)

Ag	0.5	Bi	1.0	Cs	1.0	Mo	1.0	Se	5.0	U	0.1
As	1.0	Cd	0.1	Cu	1.0	Ni	5.0	Sn	1.0	V	5.0
Ba	1.0	Co	0.1	Li	5.0	Pb	1.0	Th	0.5	Zn	5.0
Ba	1.0	Cr	1.0	Mn	1.0	Sb	1.0	Tl	1.0		___

Reviewed & Approved: MG

Sample Entry Report

Data Set: 3199
Data Set Description:

Sample Id	Type	Seq #	AS Pos.
STD0	Standard	1	1
STD1	Standard	2	1
STD2	Standard	3	1
ICV M1320	Sample	4	1
ICB	Sample	5	1
ICS A	Sample	6	1
ICS AB	Sample	7	1
T-MB 02/03	Sample	8	1
T-SRM 0287	Sample	9	1
T-SRM 0287	Sample	10	1
T-27907-847	Sample	11	1
T-847 MD	Sample	12	1
T-848	Sample	13	1
T-849	Sample	14	1
T-850	Sample	15	1
CCV M1320	Sample	16	1
CCB	Sample	17	1
T-850 MS PDS	Sample	18	1
T-850 MSD PDS	Sample	19	1
T-850	Sample	20	1
T-850 MS PDS	Sample	21	1
T-850 MSD PDS	Sample	22	1
T- MB 01/15	Sample	23	1
T-SRM 0287	Sample	25	1
T-833	Sample	26	1
CCV M1320	Sample	27	1
CCB	Sample	28	1

GRAPHICS: SIGNAL DISPLAY SUMMARY REPORT

Data Set:	SENSITIVITY
Data Set Description:	
Parameter File:	ALROptimize
Sample ID:	MP13-05
Sample Description:	
Sample Type:	Sample
Sequence Number:	204
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	30
Time:	07:09:58 Mar 1 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35

	Intensity	Intensity Std Dev	RSD
Mg 24	3.687E+04	569.2954	1.54
Rh 103	6.916E+04	926.4491	1.34
Pb 208	6.843E+04	2097.5457	3.07
CeO 156	0.0409	3.625E-03	8.86
$Ce 140	1.083E+05	1534.4568	1.42
Ba++ 138	0.0124	1.203E-03	9.71

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Parameter Entry Report

File name: ISSI
Description:

Sweeps/Reading: 40
Readings/Replicate: 1
Number of Replicates: 3
Points Across Peak: 1
Resolution: Normal
Scanning Mode: Peak Hop
Baseline Time (ms): 0
Transfer Frequency: Replicate
Polarity: +

Element/ Mass	Mass	Internal Standard	Times (ms): Replicate	Dwell	OmniRange
Zn	66		1000	25	0.0
Ge	73	<	1000	25	0.0
As	75		1000	25	0.0
Cd	111		1000	25	0.0
In	115	<	1000	25	0.0
Pb	208		1000	25	0.0
Bi	209	<	1000	25	0.0
Cl	35		1000	25	29.5
Ca	44		1000	25	20.0
Ti	47		1000	25	0.0
Br	81		1000	25	0.0
Kr	83		1000	25	0.0

Elemental Equations:

Zn 66 = Zn 66 - 0.003 * Ti 47
Ge 73 = Ge 73
As 75 = As 75 - 3.033 * mass 77.000 + 1.334 * mass 82.000
Cd 111 = Cd 111 - 0.00118 * Mo 95
In 115 = In 115 - 0.01457 * Sn 118
Pb 208 = Pb 208 + 1 * mass 206.000 + 1 * mass 207.000
Bi 209 = Bi 209
Cl 35 = Cl 35
Ca 44 = Ca 44
Ti 47 = Ti 47
Br 81 = Br 81
Kr 83 = Kr 83

Manual Settings:

Plasma Flow:	10 L/min	RF Power:	1080 Watts
Nebulizer Flow:	0.933 L/min	CEM Voltage:	-3.3 kV
Auxiliary Flow:	1 L/min	Sample Uptake:	1 mL/min

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3199
Data Set Description:	
Parameter File:	ISSI
Sample ID:	STD0
Sample Description:	
Sample Type:	Standard
Sequence Number:	001
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	08:15:35 Mar 1 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	131	1.4938	0	0.0000
Ge 73	91185	46.7869	0	0.0000
As 75	-28	34.1598	0	0.0000
Cd 111	10	2.6683	0	0.0000
In 115	162658	491.7383	0	0.0000
Pb 208	212	0.7611	0	0.0000
Bi 209	375249	2340.8477	0	0.0000
Cl 35	122	3.6057	0	0.0000
Ca 44	20	3.6056	0	0.0000
Ti 47	290	2.0023	0	0.0000
Br 81	3699	53.8871	0	0.0000
Kr 83	20	5.5076	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	<	1.434E-03	1.638E-05			ppb	
Ge 73	<	91185	46.7869			ions/sec	
As 75	<	-3.100E-04	3.746E-04			ppb	
Cd 111	<	6.092E-05	1.640E-05			ppb	
In 115	<	162658	491.7383			ions/sec	
Pb 208	<	5.641E-04	2.028E-06			ppb	
Bi 209	<	375249	2340.8477			ions/sec	
Cl 35		122	3.6057				
Ca 44		20	3.6056				
Ti 47		290	2.0023				
Br 81		3699	53.8871				
Kr 83		20	5.5076				

		Entered Conc.
Zn 66	<	0.0000
Ge 73	<	
As 75	<	0.0000
Cd 111	<	0.0000
In 115	<	
Pb 208	<	0.0000
Bi 209	<	
Cl 35		
Ca 44		
Ti 47		
Br 81		
Kr 83		

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3199
Data Set Description:	
Parameter File:	ISSI
Sample ID:	STD1
Sample Description:	
Sample Type:	Standard
Sequence Number:	002
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	08:18:00 Mar 1 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	4120	84.4452	0	0.0000
Ge 73	89418	152.5878	0	0.0000
As 75	3196	23.5056	0	0.0000
Cd 111	536	28.8682	0	0.0000
In 115	159211	497.7900	0	0.0000
Pb 208	91226	735.4714	0	0.0000
Bi 209	373314	2268.7505	0	0.0000
Cl 35	127	4.5093	0	0.0000
Ca 44	24	5.0332	0	0.0000
Ti 47	308	10.1486	0	0.0000
Br 81	3653	41.0104	0	0.0000
Kr 83	19	9.7126	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0461	9.444E-04	10.0000	0.2115	ppb	2.1153
Ge 73	<	89418	152.5878			ions/sec	
As 75		0.0357	2.629E-04	10.0000	0.0729	ppb	0.7291
Cd 111		3.369E-03	1.813E-04	1.0000	0.0548	ppb	5.4819
In 115	<	159211	497.7900			ions/sec	
Pb 208		0.2444	1.970E-03	10.0000	0.0808	ppb	0.8081
Bi 209	<	373314	2268.7505			ions/sec	
Cl 35		127	4.5093				
Ca 44		24	5.0332				
Ti 47		308	10.1486				
Br 81		3653	41.0104				
Kr 83		19	9.7126				

		Entered Conc.
Zn 66		10.0000
Ge 73	<	
As 75		10.0000
Cd 111		1.0000
In 115	<	
Pb 208		10.0000
Bi 209	<	
Cl 35		
Ca 44		
Ti 47		
Br 81		
Kr 83		

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 3199
Data Set Description:
Parameter File: ISSI

Sample ID: STD2
Sample Description:
Sample Type: Standard
Sequence Number: 003
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 08:20:19 Mar 1 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	73207	682.2241	0	0.0000
Ge 73	88111	904.2294	0	0.0000
As 75	63412	867.7118	0	0.0000
Cd 111	10327	162.3724	0	0.0000
In 115	158237	1574.0281	0	0.0000
Pb 208	1784207	9954.2451	0	0.0000
Bi 209	370876	1081.1421	0	0.0000
Cl 35	122	1.5269	0	0.0000
Ca 44	21	4.5093	0	0.0000
Ti 47	310	11.5324	0	0.0000
Br 81	3659	111.1423	0	0.0000
Kr 83	33	6.8069	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	<	0.8309	7.743E-03	199.9799	1.8704	ppb	0.9353
Ge 73		88111	904.2294			ions/sec	
As 75		0.7197	9.848E-03	199.9996	2.7357	ppb	1.3678
Cd 111	<	0.0653	1.026E-03	19.9996	0.3149	ppb	1.5744
In 115		158237	1574.0281			ions/sec	
Pb 208	<	4.8108	0.0268	199.9964	1.1163	ppb	0.5582
Bi 209		370876	1081.1421			ions/sec	
Cl 35		122	1.5269				
Ca 44		21	4.5093				
Ti 47		310	11.5324				
Br 81		3659	111.1423				
Kr 83		33	6.8069				

		Entered Conc.
Zn 66	<	200.0000
Ge 73		
As 75		200.0000
Cd 111	<	20.0000
In 115		
Pb 208	<	200.0000
Bi 209		
Cl 35		
Ca 44		
Ti 47		
Br 81		
Kr 83		

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 3199
Data Set Description:
Parameter File: ISSI

Sample ID: ICV M1320
Sample Description:
Sample Type: Sample
Sequence Number: 004
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 08:24:17 Mar 1 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	36104	426.9729	0	0.0000
Ge 73	86623	1509.5974	0	0.0000
As 75	30463	345.5169	0	0.0000
Cd 111	5058	104.9159	0	0.0000
In 115	154676	4095.2275	0	0.0000
Pb 208	853268	1.746E+04	0	0.0000
Bi 209	361724	1.319E+04	0	0.0000
Cl 35	120	5.8594	0	0.0000
Ca 44	78	11.1506	0	0.0000
Ti 47	328	30.9254	0	0.0000
Br 81	3612	107.6381	0	0.0000
Kr 83	19	3.5119	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.4168	4.929E-03	99.9550 100%	1.1907	ppb	1.1912
Ge 73	<	86623	1509.5974			ions/sec	
As 75		0.3517	3.989E-03	97.7710 98%	1.1080	ppb	1.1333
Cd 111		0.0327	6.783E-04	10.0093 100%	0.2081	ppb	2.0795
In 115	<	154676	4095.2275			ions/sec	
Pb 208		2.3589	0.0483	98.0181 98%	2.0070	ppb	2.0476
Bi 209	<	361724	1.319E+04			ions/sec	
Cl 35		120	5.8594				
Ca 44		78	11.1506				
Ti 47		328	30.9254				
Br 81		3612	107.6381				
Kr 83		19	3.5119				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3199
Data Set Description:	
Parameter File:	ISSI
Sample ID:	ICB
Sample Description:	
Sample Type:	Sample
Sequence Number:	005
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	08:28:08 Mar 1 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	135	3.8561	0	0.0000
Ge 73	85387	812.6501	0	0.0000
As 75	20	32.5658	0	0.0000
Cd 111	13	2.0740	0	0.0000
In 115	153060	1542.3990	0	0.0000
Pb 208	2073	624.7154	0	0.0000
Bi 209	364601	2081.0237	0	0.0000
Cl 35	131	3.5122	0	0.0000
Ca 44	19	3.2146	0	0.0000
Ti 47	266	9.2917	0	0.0000
Br 81	3560	33.4836	0	0.0000
Kr 83	17	5.5076	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66	<	1.575E-03	4.516E-05	-0.3484	ok	0.0109	ppb	3.1313
Ge 73		85387	812.6501				ions/sec	
As 75		2.323E-04	3.814E-04	0.1432		0.1059	ppb	73.9669
Cd 111	<	8.391E-05	1.355E-05	-2.312E-04		4.158E-03	ppb	1798.7837
In 115		153060	1542.3990				ions/sec	
Pb 208	<	5.686E-03	1.713E-03	0.1447		0.0713	ppb	49.2406
Bi 209		364601	2081.0237				ions/sec	
Cl 35		131	3.5122					
Ca 44		19	3.2146					
Ti 47		266	9.2917					
Br 81		3560	33.4836					
Kr 83		17	5.5076					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3199
Data Set Description:	
Parameter File:	ISSI
Sample ID:	ICS A
Sample Description:	S5357 (10:100)
Sample Type:	Sample
Sequence Number:	006
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	08:36:12 Mar 1 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	968	75.9011	0	0.0000
Ge 73	82582	427.0803	0	0.0000
As 75	-52	37.3329	0	0.0000
Cd 111	235	63.1385	0	0.0000
In 115	153846	1008.0819	0	0.0000
Pb 208	10151	62.1242	0	0.0000
Bi 209	317841	2109.7375	0	0.0000
Cl 35	8203	195.3166	0	0.0000
Ca 44	85541	2011.1855	0	0.0000
Ti 47	464649	3187.3948	0	0.0000
Br 81	4868	91.5203	0	0.0000
Kr 83	140	3.0551	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0117	9.191E-04	2.1036	0.2220	ppb	10.5543
Ge 73	<	82582	427.0803			ions/sec	
As 75	<	-6.275E-04	4.521E-04	-0.0956	0.1256	ppb	131.3542
Cd 111	<	1.525E-03	4.104E-04	0.4421	0.1259	ppb	28.4876
In 115	<	153846	1008.0819			ions/sec	
Pb 208	<	0.0319	1.955E-04	1.2366	8.129E-03	ppb	0.6574
Bi 209	<	317841	2109.7375			ions/sec	
Cl 35		8203	195.3166				
Ca 44		85541	2011.1855				
Ti 47		464649	3187.3948				
Br 81		4868	91.5203				
Kr 83		140	3.0551				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3199
Data Set Description:	
Parameter File:	ISSI
Sample ID:	ICS AB
Sample Description:	S5753 (10:100) S5745 (1:100)
Sample Type:	Sample
Sequence Number:	007
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	08:38:44 Mar 1 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	7539	168.7986	0	0.0000
Ge 73	84445	1302.9922	0	0.0000
As 75	6608	370.0779	0	0.0000
Cd 111	9566	325.9280	0	0.0000
In 115	154669	3256.5657	0	0.0000
Pb 208	9992	276.6395	0	0.0000
Bi 209	324488	5884.5234	0	0.0000
Cl 35	6668	47.6704	0	0.0000
Ca 44	71622	630.3204	0	0.0000
Ti 47	430162	4440.5596	0	0.0000
Br 81	4637	42.7378	0	0.0000
Kr 83	110	2.0819	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		0.0893	1.999E-03	20.8385	104%	0.4829	ppb	2.3172
Ge 73	<	84445	1302.9922				ions/sec	
As 75		0.0783	4.382E-03	21.8179	109%	1.2174	ppb	5.5799
Cd 111		0.0619	2.107E-03	18.9532	95%	0.6466	ppb	3.4117
In 115	<	154669	3256.5657				ions/sec	
Pb 208		0.0308	8.525E-04	1.1890	–	0.0355	ppb	2.9821
Bi 209	<	324488	5884.5234				ions/sec	
Cl 35		6668	47.6704					
Ca 44		71622	630.3204					
Ti 47		430162	4440.5596					
Br 81		4637	42.7378					
Kr 83		110	2.0819					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3199
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-MB 02/03
Sample Description:	
Sample Type:	Sample
Sequence Number:	008
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	08:44:41 Mar 1 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	1763	22.4656	0	0.0000
Ge 73	81803	150.6138	0	0.0000
As 75	2	18.8082	0	0.0000
Cd 111	21	1.1282	0	0.0000
In 115	150413	1102.7396	0	0.0000
Pb 208	4978	20.4031	0	0.0000
Bi 209	407329	4279.7568	0	0.0000
Cl 35	161	14.6403	0	0.0000
Ca 44	208	9.8493	0	0.0000
Ti 47	521	42.9126	0	0.0000
Br 81	3790	39.2915	0	0.0000
Kr 83	14	0.5774	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0215	2.746E-04	4.4760	0.0663	ppb	1.4822
Ge 73	<	81803	150.6138			ions/sec	
As 75		2.545E-05	2.299E-04	0.0858	0.0639	ppb	74.4589
Cd 111		1.376E-04	7.501E-06	0.0162	2.302E-03	ppb	14.1742
In 115	<	150413	1102.7396			ions/sec	
Pb 208		0.0122	5.009E-05	0.4165	2.083E-03	ppb	0.5001
Bi 209	<	407329	4279.7568			ions/sec	
Cl 35		161	14.6403				
Ca 44		208	9.8493				
Ti 47		521	42.9126				
Br 81		3790	39.2915				
Kr 83		14	0.5774				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3199
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-SRM 0287
Sample Description:	(0.25:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	009
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	08:47:46 Mar 1 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	5001	28.3269	0	0.0000
Ge 73	89401	731.4026	0	0.0000
As 75	15262	124.7854	0	0.0000
Cd 111	1008	3.7050	0	0.0000
In 115	157946	672.7542	0	0.0000
Pb 208	95289	234.7856	0	0.0000
Bi 209	414624	1905.6248	0	0.0000
Cl 35	124	10.9697	0	0.0000
Ca 44	8904	38.8234	0	0.0000
Ti 47	528	12.0004	0	0.0000
Br 81	3752	42.6082	0	0.0000
Kr 83	18	2.5166	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0559	3.169E-04	12.7850 256	0.0765	ppb	0.5987
Ge 73	<	89401	731.4026			ions/sec	
As 75		0.1707	1.396E-03	47.5017 956	0.3877	ppb	0.8163
Cd 111		6.385E-03	2.346E-05	1.933339	7.198E-03	ppb	0.3723
In 115	<	157946	672.7542			ions/sec	
Pb 208		0.2298	5.663E-04	9.4668 189	0.0236	ppb	0.2488
Bi 209	<	414624	1905.6248			ions/sec	
Cl 35		124	10.9697				
Ca 44		8904	38.8234				
Ti 47		528	12.0004				
Br 81		3752	42.6082				
Kr 83		18	2.5166				

000130

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3199
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-SRM 0287
Sample Description:	(0.25:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	010
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	08:52:42 Mar 1 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	4772	70.9213	0	0.0000
Ge 73	87121	471.8412	0	0.0000
As 75	14329	323.6688	0	0.0000
Cd 111	976	15.1183	0	0.0000
In 115	155011	1873.6152	0	0.0000
Pb 208	91789	831.3478	0	0.0000
Bi 209	406922	3180.8350	0	0.0000
Cl 35	117	9.8658	0	0.0000
Ca 44	8558	84.9743	0	0.0000
Ti 47	483	38.3978	0	0.0000
Br 81	3671	49.1169	0	0.0000
Kr 83	15	6.8069	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0548	8.141E-04	12.5034	0.1966	ppb	1.5728
Ge 73	<	87121	471.8412			ions/sec	
As 75		0.1645	3.715E-03	45.7683	1.0320	ppb	2.2549
Cd 111		6.299E-03	9.753E-05	1.9069	0.0299	ppb	1.5695
In 115	<	155011	1873.6152			ions/sec	
Pb 208		0.2256	2.043E-03	9.2900	0.0850	ppb	0.9147
Bi 209	<	406922	3180.8350			ions/sec	
Cl 35		117	9.8658				
Ca 44		8558	84.9743				
Ti 47		483	38.3978				
Br 81		3671	49.1169				
Kr 83		15	6.8069				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 3199
Data Set Description:
Parameter File: ISSI

Sample ID: T-27907-847
Sample Description: (0.5:50)(0.1:10)
Sample Type: Sample
Sequence Number: 011
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 08:58:18 Mar 1 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	73982	200.0903	0	0.0000
Ge 73	88743	753.6802	0	0.0000
As 75	10069	44.2020	0	0.0000
Cd 111	695	9.4262	0	0.0000
In 115	156768	964.9003	0	0.0000
Pb 208	4453118	4692.0859	0	0.0000
Bi 209	398537	1073.8743	0	0.0000
Cl 35	117	5.5679	0	0.0000
Ca 44	2386	25.7985	0	0.0000
Ti 47	1302	29.8412	0	0.0000
Br 81	3721	104.4894	0	0.0000
Kr 83	25	0.5774	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.8337	2.255E-03	200.6586	0.5447	ppb	0.2714
Ge 73	<	88743	753.6802			ions/sec	
As 75		0.1135	4.981E-04	31.5977	0.1384	ppb	0.4379
Cd 111		4.435E-03	6.013E-05	1.3349	0.0185	ppb	1.3821
In 115	<	156768	964.9003			ions/sec	
Pb 208		11.1737	0.0118	464.6377	0.4897	ppb	0.1054
Bi 209	<	398537	1073.8743			ions/sec	
Cl 35		117	5.5679				
Ca 44		2386	25.7985				
Ti 47		1302	29.8412				
Br 81		3721	104.4894				
Kr 83		25	0.5774				

000182

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3199
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-847 MD
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	012
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	09:00:39 Mar 1 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	65915	229.3528	0	0.0000
Ge 73	89621	285.7885	0	0.0000
As 75	9773	68.7652	0	0.0000
Cd 111	632	19.7193	0	0.0000
In 115	157832	439.9494	0	0.0000
Pb 208	4281113	1.291E+04	0	0.0000
Bi 209	402525	2841.4221	0	0.0000
Cl 35	110	10.8167	0	0.0000
Ca 44	2272	52.3566	0	0.0000
Ti 47	1426	54.5045	0	0.0000
Br 81	3642	47.5646	0	0.0000
Kr 83	21	4.9329	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.7355	2.559E-03	176.9427	13/ESS 0.6182	ppb	0.3494
Ge 73	<	89621	285.7885			ions/sec	
As 75		0.1090	7.673E-04	30.3705	4/ESS 0.2131	ppb	0.7018
Cd 111		4.002E-03	1.249E-04	1.2020	6/ESS 0.0383	ppb	3.1896
In 115	<	157832	439.9494			ions/sec	
Pb 208		10.6357	0.0321	442.2611	5/ESS 1.3336	ppb	0.3015
Bi 209	<	402525	2841.4221			ions/sec	
Cl 35		110	10.8167				
Ca 44		2272	52.3566				
Ti 47		1426	54.5045				
Br 81		3642	47.5646				
Kr 83		21	4.9329				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3199
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-848
Sample Description:	
Sample Type:	Sample
Sequence Number:	013
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	09:04:16 Mar 1 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	10497	83.9960	0	0.0000
Ge 73	87371	444.6109	0	0.0000
As 75	2191	34.2142	0	0.0000
Cd 111	1339	84.3167	0	0.0000
In 115	154651	152.0527	0	0.0000
Pb 208	728363	2976.0681	0	0.0000
Bi 209	395347	3446.8389	0	0.0000
Cl 35	102	3.6056	0	0.0000
Ca 44	1444	26.4197	0	0.0000
Ti 47	9091	56.6793	0	0.0000
Br 81	3589	65.0728	0	0.0000
Kr 83	18	4.6188	0	0.0000

DNR BA 3/2/99

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.1201	9.614E-04	28.2935	280	0.2322 ppb	0.8208
Ge 73	<	87371	444.6109			ions/sec	
As 75		0.0251	3.916E-04	7.0462	70	0.1088 ppb	1.5438
Cd 111	<	8.661E-03	5.452E-04	2.6318	26	0.1673 ppb	6.3569
In 115		154651	152.0527			ions/sec	
Pb 208	<	1.8423	7.528E-03	76.5338	770	0.3131 ppb	0.4091
Bi 209		395347	3446.8389			ions/sec	
Cl 35		102	3.6056				
Ca 44		1444	26.4197				
Ti 47		9091	56.6793				
Br 81		3589	65.0728				
Kr 83		18	4.6188				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 3199
Data Set Description:
Parameter File: ISSI

Sample ID: T-849
Sample Description: (0.5:50)(0.1:10)
Sample Type: Sample
Sequence Number: 014
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 09:07:19 Mar 1 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	14513	96.1275	0	0.0000
Ge 73	87223	515.1284	0	0.0000
As 75	449	26.8509	0	0.0000
Cd 111	141	5.2933	0	0.0000
In 115	155222	384.9583	0	0.0000
Pb 208	120232	1046.8862	0	0.0000
Bi 209	398738	1094.0110	0	0.0000
Cl 35	105	2.5163	0	0.0000
Ca 44	1934	14.1828	0	0.0000
Ti 47	646	4.0465	0	0.0000
Br 81	3507	84.0919	0	0.0000
Kr 83	18	4.0000	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.1664	1.102E-03	39.4643	0.2662	ppb	0.6746
Ge 73	<	87223	515.1284			ions/sec	
As 75		5.149E-03	3.078E-04	1.5091	0.0855	ppb	5.6666
Cd 111		9.082E-04	3.410E-05	0.2527	0.0105	ppb	4.1411
In 115	<	155222	384.9583			ions/sec	
Pb 208		0.3015	2.625E-03	12.4494	0.1092	ppb	0.8771
Bi 209	<	398738	1094.0110			ions/sec	
Cl 35		105	2.5163				
Ca 44		1934	14.1828				
Ti 47		646	4.0465				
Br 81		3507	84.0919				
Kr 83		18	4.0000				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 3199
Data Set Description:
Parameter File: ISSI

Sample ID: T-850
Sample Description: (0.5:50)(0.1:10)
Sample Type: Sample
Sequence Number: 015
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 09:09:36 Mar 1 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	7082	79.5063	0	0.0000
Ge 73	87277	234.9482	0	0.0000
As 75	298	55.1965	0	0.0000
Cd 111	32	12.7481	0	0.0000
In 115	154846	768.1474	0	0.0000
Pb 208	16014	136.5817	0	0.0000
Bi 209	398254	1561.5437	0	0.0000
Cl 35	106	5.0332	0	0.0000
Ca 44	1102	58.7378	0	0.0000
Ti 47	7388	86.3761	0	0.0000
Br 81	3512	26.9272	0	0.0000
Kr 83	17	5.7735	0	0.0000

DNF EW 3/2/99

		Net Ratio/ Intensity	Std. Dev.	Conc		Std. Dev.		% RSD
Zn 66		0.0811	9.110E-04	18.8718	190	0.2201	ppb	1.1661
Ge 73	<	87277	234.9482				ions/sec	
As 75		3.413E-03	6.324E-04	1.0268	10	0.1757	ppb	17.1094
Cd 111	<	2.037E-04	8.233E-05	0.0365	DNF	0.0253	ppb	69.1569
In 115	<	154846	768.1474				ions/sec	
Pb 208	<	0.0402	3.430E-04	1.5806	160	0.0143	ppb	0.9024
Bi 209	<	398254	1561.5437				ions/sec	
Cl 35		106	5.0332					
Ca 44		1102	58.7378					
Ti 47		7388	86.3761					
Br 81		3512	26.9272					
Kr 83		17	5.7735					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3199
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCV M1320
Sample Description:	
Sample Type:	Sample
Sequence Number:	016
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	09:11:56 Mar 1 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	35870	981.7037	0	0.0000
Ge 73	83899	2715.0933	0	0.0000
As 75	29628	838.3447	0	0.0000
Cd 111	4881	183.3228	0	0.0000
In 115	147466	5387.3408	0	0.0000
Pb 208	912222	3.180E+04	0	0.0000
Bi 209	371068	1.652E+04	0	0.0000
Cl 35	114	7.5056	0	0.0000
Ca 44	66	6.2450	0	0.0000
Ti 47	313	7.6378	0	0.0000
Br 81	3530	55.7842	0	0.0000
Kr 83	22	4.0415	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.4275	0.0117	102.5521	2.8266	ppb	2.7563
Ge 73	<	83899	2715.0933			ions/sec	
As 75		0.3531	9.992E-03	98.1789	2.7758	ppb	2.8273
Cd 111		0.0331	1.243E-03	10.1310	0.3815	ppb	3.7653
In 115	<	147466	5387.3408			ions/sec	
Pb 208		2.4584	0.0857	102.1555	3.5641	ppb	3.4889
Bi 209	<	371068	1.652E+04			ions/sec	
Cl 35		114	7.5056				
Ca 44		66	6.2450				
Ti 47		313	7.6378				
Br 81		3530	55.7842				
Kr 83		22	4.0415				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3199
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCB
Sample Description:	
Sample Type:	Sample
Sequence Number:	017
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	09:14:32 Mar 1 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	110	5.1403	0	0.0000
Ge 73	81254	365.6516	0	0.0000
As 75	-16	52.9799	0	0.0000
Cd 111	9	3.2077	0	0.0000
In 115	142923	574.0731	0	0.0000
Pb 208	1419	251.5452	0	0.0000
Bi 209	364840	595.6297	0	0.0000
Cl 35	94	4.9331	0	0.0000
Ca 44	13	4.0415	0	0.0000
Ti 47	251	23.4594	0	0.0000
Br 81	3555	67.0192	0	0.0000
Kr 83	18	6.1101	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		1.357E-03	6.326E-05	-0.4011	ok	0.0153	ppb	3.8097
Ge 73	<	81254	365.6516				ions/sec	
As 75		-1.992E-04	6.520E-04	0.0234		0.1811	ppb	774.9018
Cd 111		6.577E-05	2.244E-05	-5.800E-03		6.887E-03	ppb	118.7405
In 115	<	142923	574.0731				ions/sec	
Pb 208		3.890E-03	6.895E-04	0.0700		0.0287	ppb	40.9466
Bi 209	<	364840	595.6297				ions/sec	
Cl 35		94	4.9331					
Ca 44		13	4.0415					
Ti 47		251	23.4594					
Br 81		3555	67.0192					
Kr 83		18	6.1101					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3199
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-850 MS PDS
Sample Description:	(0.5:50)(0.1:10) 0.1 ml OF MP1208-09 IN 10 ml
Sample Type:	Sample
Sequence Number:	018
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	09:18:29 Mar 1 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	19973	153.3545	0	0.0000
Ge 73	78871	372.1478	0	0.0000
As 75	7976	91.0742	0	0.0000
Cd 111	12535	131.4232	0	0.0000
In 115	137913	520.6377	0	0.0000
Pb 208	246859	1740.5687	0	0.0000
Bi 209	345989	1917.4397	0	0.0000
Cl 35	103	0.9996	0	0.0000
Ca 44	27665	288.8182	0	0.0000
Ti 47	129252	518.8186	0	0.0000
Br 81	3499	87.5601	0	0.0000
Kr 83	24	5.5076	0	0.0000

DNR EM 3/2/99

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.2532	1.944E-03	60.4437 832	0.4697	ppb	0.7771
Ge 73	<	78871	372.1478			ions/sec	
As 75		0.1011	1.155E-03	28.1707 1292	0.3208	ppb	1.1387
Cd 111	<	0.0909	9.529E-04	27.8653 —	0.2924	ppb	1.0494
In 115		137913	520.6377			ions/sec	
Pb 208	<	0.7135	5.031E-03	29.5833 1124	0.2092	ppb	0.7073
Bi 209		345989	1917.4397			ions/sec	
Cl 35		103	0.9996				
Ca 44		27665	288.8182				
Ti 47		129252	518.8186				
Br 81		3499	87.5601				
Kr 83		24	5.5076				

000189

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 3199
Data Set Description:
Parameter File: ISSI

Sample ID: T-850 MSD PDS
Sample Description: (0.5:50)(0.1:10) 0.1 ml OF MP1208-09 IN 10 ml
Sample Type: Sample
Sequence Number: 019
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 09:22:18 Mar 1 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	20324	368.0321	0	0.0000
Ge 73	79075	250.5551	0	0.0000
As 75	7946	181.9822	0	0.0000
Cd 111	12600	31.6030	0	0.0000
In 115	138549	582.4456	0	0.0000
Pb 208	247134	2378.3567	0	0.0000
Bi 209	348517	2556.3540	0	0.0000
Cl 35	101	17.3878	0	0.0000
Ca 44	27564	477.5889	0	0.0000
Ti 47	128934	264.0641	0	0.0000
Br 81	3458	48.5726	0	0.0000
Kr 83	24	3.2146	0	0.0000

DNR 8/3/99

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		0.2570	4.654E-03	61.3594	2/1000	1.1243	ppb	1.8324
Ge 73	<	79075	250.5551				ions/sec	
As 75		0.1005	2.301E-03	27.9938	1/1000	0.6393	ppb	2.2838
Cd 111	<	0.0909	2.281E-04	27.8804	~	0.0700	ppb	0.2511
In 115	<	138549	582.4456				ions/sec	
Pb 208	<	0.7091	6.824E-03	29.4008	1/1000	0.2838	ppb	0.9654
Bi 209	<	348517	2556.3540				ions/sec	
Cl 35		101	17.3878					
Ca 44		27564	477.5889					
Ti 47		128934	264.0641					
Br 81		3458	48.5726					
Kr 83		24	3.2146					

000190

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3199
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-850
Sample Description:	(0.5:50)
Sample Type:	Sample
Sequence Number:	020
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	09:26:03 Mar 1 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	155476	183.9469	0	0.0000
Ge 73	75728	321.8706	0	0.0000
As 75	26115	209.5085	0	0.0000
Cd 111	1006	20.7913	0	0.0000
In 115	150310	298.4417	0	0.0000
Pb 208	743547	5661.1064	0	0.0000
Bi 209	327590	4766.6548	0	0.0000
Cl 35	110	8.9630	0	0.0000
Ca 44	106931	1955.3909	0	0.0000
Ti 47	634802	3516.2112	0	0.0000
Br 81	5750	164.3918	0	0.0000
Kr 83	379	13.5026	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		2.0531	2.429E-03	495.2344	0.5868	ppb	0.1185
Ge 73	<	75728	321.8706			ions/sec	
As 75		0.3449	2.767E-03	95.8763	0.7685	ppb	0.8016
Cd 111		6.695E-03	1.383E-04	2.0285	0.0424	ppb	2.0924
In 115	<	150310	298.4417			ions/sec	
Pb 208		2.2698	0.0173	94.3107	0.7187	ppb	0.7621
Bi 209	<	327590	4766.6548			ions/sec	
Cl 35		110	8.9630				
Ca 44		106931	1955.3909				
Ti 47		634802	3516.2112				
Br 81		5750	164.3918				
Kr 83		379	13.5026				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3199
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-850 MS PDS
Sample Description:	(0.5:50)(0.1 ml OF MP1208-09 IN 10 ml
Sample Type:	Sample
Sequence Number:	021
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	09:30:59 Mar 1 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	160876	1153.2603	0	0.0000
Ge 73	75126	510.5061	0	0.0000
As 75	30994	377.0019	0	0.0000
Cd 111	12015	133.8362	0	0.0000
In 115	152480	696.5149	0	0.0000
Pb 208	914046	5050.8979	0	0.0000
Bi 209	314240	2533.1189	0	0.0000
Cl 35	135	21.7334	0	0.0000
Ca 44	147424	1650.9880	0	0.0000
Ti 47	715840	9638.9414	0	0.0000
Br 81	5982	88.8321	0	0.0000
Kr 83	374	26.0005	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	]	2.1414	0.0154	516.5680	3.7083	ppb	0.7179
Ge 73	<	75126	510.5061			ions/sec	
As 75	]	0.4126	5.018E-03	114.6846	1.3940	ppb	1.2155
Cd 111	]	0.0788	8.777E-04	24.1539	0.2693	ppb	1.1151
In 115	<	152480	696.5149			ions/sec	
Pb 208	]	2.9087	0.0161	120.8875	0.6685	ppb	0.5530
Bi 209	<	314240	2533.1189			ions/sec	
Cl 35		135	21.7334				
Ca 44		147424	1650.9880				
Ti 47		715840	9638.9414				
Br 81		5982	88.8321				
Kr 83		374	26.0005				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3199
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-850 MSD PDS
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	022
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	09:33:09 Mar 1 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	156547	1712.1473	0	0.0000
Ge 73	73615	217.5817	0	0.0000
As 75	30280	54.6556	0	0.0000
Cd 111	11889	96.4834	0	0.0000
In 115	153614	981.5124	0	0.0000
Pb 208	905624	3182.4187	0	0.0000
Bi 209	310361	2555.5115	0	0.0000
Cl 35	135	14.4685	0	0.0000
Ca 44	152662	2313.0044	0	0.0000
Ti 47	690591	2739.1316	0	0.0000
Br 81	6107	56.1304	0	0.0000
Kr 83	361	14.4233	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		2.1266	0.0233	512.9835	5.6184	ppb	1.0952
Ge 73	<]	73615	217.5817			ions/sec	
As 75		0.4113	7.425E-04	114.3438	0.2062	ppb	0.1804
Cd 111		0.0774	6.281E-04	23.7241 1/4 PD	0.1927	ppb	0.8124
In 115	<]	153614	981.5124			ions/sec	
Pb 208		2.9180	0.0103	121.2709	0.4265	ppb	0.3517
Bi 209	<]	310361	2555.5115			ions/sec	
Cl 35		135	14.4685				
Ca 44		152662	2313.0044				
Ti 47		690591	2739.1316				
Br 81		6107	56.1304				
Kr 83		361	14.4233				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3199
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T- MB 01/15
Sample Description:	
Sample Type:	Sample
Sequence Number:	023
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	09:49:52 Mar 1 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	3058	24.3511	0	0.0000
Ge 73	71615	1036.9066	0	0.0000
As 75	-37	27.1898	0	0.0000
Cd 111	22	2.1304	0	0.0000
In 115	139447	1184.5822	0	0.0000
Pb 208	161598	1646.1387	0	0.0000
Bi 209	374229	2807.1963	0	0.0000
Cl 35	94	6.5576	0	0.0000
Ca 44	1039	14.2956	0	0.0000
Ti 47	373	24.2702	0	0.0000
Br 81	3492	59.0850	0	0.0000
Kr 83	20	2.6458	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0427	3.400E-04	9.5863	0.0821	ppb	0.8568
Ge 73	<	71615	1036.9066			ions/sec	
As 75		-5.235E-04	3.797E-04	-0.0667	0.1055	ppb	158.0888
Cd 111		1.608E-04	1.528E-05	0.0234	4.688E-03	ppb	20.0569
In 115	<	139447	1184.5822			ions/sec	
Pb 208		0.4318	4.399E-03	17.8681	0.1830	ppb	1.0239
Bi 209	<	374229	2807.1963			ions/sec	
Cl 35		94	6.5576				
Ca 44		1039	14.2956				
Ti 47		373	24.2702				
Br 81		3492	59.0850				
Kr 83		20	2.6458				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3199
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-SRM 0287
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	025
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	09:57:31 Mar 1 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	3379	58.0108	0	0.0000
Ge 73	80930	198.3350	0	0.0000
As 75	13914	183.2731	0	0.0000
Cd 111	956	37.8678	0	0.0000
In 115	149198	301.2650	0	0.0000
Pb 208	87124	537.1005	0	0.0000
Bi 209	366316	2360.8813	0	0.0000
Cl 35	107	14.8438	0	0.0000
Ca 44	10902	201.2468	0	0.0000
Ti 47	425	15.2744	0	0.0000
Br 81	3582	47.7940	0	0.0000
Kr 83	18	4.9329	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.0417	7.168E-04	9.3561	187 % 0.1732	ppb	1.8507
Ge 73	<	80930	198.3350			ions/sec	
As 75		0.1719	2.265E-03	47.8372	957 % 0.6291	ppb	1.3150
Cd 111		6.409E-03	2.538E-04	1.9408	38.8 % 0.0779	ppb	4.0130
In 115	<	149198	301.2650			ions/sec	
Pb 208		0.2378	1.466E-03	9.8003	196 % 0.0610	ppb	0.6222
Bi 209	<	366316	2360.8813			ions/sec	
Cl 35		107	14.8438				
Ca 44		10902	201.2468				
Ti 47		425	15.2744				
Br 81		3582	47.7940				
Kr 83		18	4.9329				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3199
Data Set Description:	
Parameter File:	ISSI
Sample ID:	T-833
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	026
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	10:02:17 Mar 1 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	9816	88.0427	0	0.0000
Ge 73	81535	521.7861	0	0.0000
As 75	30951	398.5704	0	0.0000
Cd 111	573	13.7857	0	0.0000
In 115	150801	586.8326	0	0.0000
Pb 208	1016280	8286.3799	0	0.0000
Bi 209	355201	3187.7925	0	0.0000
Cl 35	98	1.7321	0	0.0000
Ca 44	837	11.6725	0	0.0000
Ti 47	4598	37.1109	0	0.0000
Br 81	3562	17.1604	0	0.0000
Kr 83	19	2.6458	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		0.1204	1.080E-03	28.3535	0.2608	ppb	0.9200
Ge 73	<	81535	521.7861			ions/sec	
As 75		0.3796	4.888E-03	105.5282	1.3579	ppb	1.2868
Cd 111		3.798E-03	9.142E-05	1.1395	0.0281	ppb	2.4617
In 115	<	150801	586.8326			ions/sec	
Pb 208		2.8611	0.0233	118.9075	0.9703	ppb	0.8160
Bi 209	<	355201	3187.7925			ions/sec	
Cl 35		98	1.7321				
Ca 44		837	11.6725				
Ti 47		4598	37.1109				
Br 81		3562	17.1604				
Kr 83		19	2.6458				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3199
Data Set Description:	
Parameter File:	ISSI
Sample ID:	CCV M1320
Sample Description:	
Sample Type:	Sample
Sequence Number:	027
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	10:07:19 Mar 1 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	34393	410.9477	0	0.0000
Ge 73	81666	383.9377	0	0.0000
As 75	29452	317.5681	0	0.0000
Cd 111	4981	120.8432	0	0.0000
In 115	149065	1787.5016	0	0.0000
Pb 208	841433	5154.4844	0	0.0000
Bi 209	345643	1685.9404	0	0.0000
Cl 35	103	14.1068	0	0.0000
Ca 44	75	4.7258	0	0.0000
Ti 47	275	4.9330	0	0.0000
Br 81	3483	146.2995	0	0.0000
Kr 83	22	3.0000	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.		Std. Dev.		% RSD
Zn 66		0.4211	5.032E-03	101.0061	ppb	1.2156	ppb	1.2035
Ge 73	<	81666	383.9377				ions/sec	
As 75		0.3606	3.889E-03	100.2597	ppb	1.0802	ppb	1.0774
Cd 111		0.0334	8.107E-04	10.2277	ppb	0.2488	ppb	2.4322
In 115	<	149065	1787.5016				ions/sec	
Pb 208		2.4344	0.0149	101.1587	ppb	0.6202	ppb	0.6131
Bi 209	<	345643	1685.9404				ions/sec	
Cl 35		103	14.1068					
Ca 44		75	4.7258					
Ti 47		275	4.9330					
Br 81		3483	146.2995					
Kr 83		22	3.0000					

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 3199
Data Set Description:
Parameter File: ISSI

Sample ID: CCB
Sample Description:
Sample Type: Sample
Sequence Number: 028
Blank: Not Subtracted
Dilution Factor: 1
Number of Repeats: 3
Time: 10:10:03 Mar 1 1999
Signal Profile Processing: Average
Spectral Peak Processing: Average
Deadtime Correction: 35

Calibration File: [Untitled]
Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	98	9.9142	0	0.0000
Ge 73	80030	67.7319	0	0.0000
As 75	-31	18.4593	0	0.0000
Cd 111	9	3.2451	0	0.0000
In 115	146306	250.6706	0	0.0000
Pb 208	1223	262.2400	0	0.0000
Bi 209	342134	4954.6147	0	0.0000
Cl 35	103	20.5509	0	0.0000
Ca 44	17	4.1633	0	0.0000
Ti 47	240	7.5715	0	0.0000
Br 81	3489	72.2695	0	0.0000
Kr 83	21	8.5440	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		1.228E-03	1.239E-04	-0.4323	0.0299	ppb	6.9228
Ge 73	<	80030	67.7319			ions/sec	
As 75		-3.932E-04	2.307E-04	-0.0305	0.0641	ppb	209.8523
Cd 111		6.225E-05	2.218E-05	-6.880E-03	6.806E-03	ppb	98.9313
In 115	<	146306	250.6706			ions/sec	
Pb 208		3.575E-03	7.665E-04	0.0570	0.0319	ppb	55.9654
Bi 209	<	342134	4954.6147			ions/sec	
Cl 35		103	20.5509				
Ca 44		17	4.1633				
Ti 47		240	7.5715				
Br 81		3489	72.2695				
Kr 83		21	8.5440				

Acculabs Inc. F8625 Rev. B

Date: 3.3.99 AL # 27907

Analyst: A.m

ICP-MS COVER SHEET

Perkin-Elmer/Sciex Elan 5000 Control #I073
Procedure #I09029___ EPA Method 200.8
Procedure #I09035 A SW846 Method 6020

Std. Prep Log #	Expiration Date	
		Blank
		Std#1
MS0514	3.17.99	10.0 ppb As, Ba, Be, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn 1.0 ppb, Ag, Cd, Th, U
MS0515	3.17.99	Std#2 200.0 ppb As, Ba, Be, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn 20.0 ppb, Ag, Cd, Th, U
–	–	MSG Std#1 10 ppb Ag, As, Bi, Cd, Cu, Pb, Sb, Sn
–	–	MSG Std#2 200 ppb Ag, As, Bi, Cd, Cu, Pb, Sb, Sn
–	–	LiCs Std#1 10 ppb
–	–	LiCs Std#2 200 ppb
–	–	Other:
		Calibration Verification
M13.20	3.14.99	ICP-MS CV 100 ppb As,Ba,Be, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se,Th, Tl, V, Zn 10 ppb, Ag, Cd, U
–	–	MSG-CV 100 ppb Ag, As, Bi, Cd, Cu, Pb, Sb, Sn
–	–	Other:

Method Detection Limits (μ/L)

Ag	0.5	Bi	1.0	Cs	1.0	Mo	1.0	Se	5.0	U	0.1
As	1.0	Cd	0.1	Cu	1.0	Ni	5.0	Sn	1.0	V	5.0
Ba	1.0	Co	0.1	Li	5.0	Pb	1.0	Th	0.5	Zn	5.0
Ba	1.0	Cr	1.0	Mn	1.0	Sb	1.0	Tl	1.0		

Reviewed & Approved: [illegible]

Sample Entry Report

Data Set: 3399
Data Set Description:

Sample Id	Type	Seq #	AS Pos.
STD0	Standard	1	1
STD1	Standard	2	1
STD2	Standard	3	1
ICV M1320	Sample	4	1
ICB	Sample	5	1
ICS A	Sample	6	1
ICS AB	Sample	7	1
T-MB 02/03	Sample	8	1
T-SRM 0287	Sample	9	1
T-27907-847	Sample	10	1
T-847 MD	Sample	11	1
T-848	Sample	12	1
T-849	Sample	13	1
T-850	Sample	14	1
T-850 MS PDS	Sample	15	1
CCV M1320	Sample	16	1
CCV M1320	Sample	17	1
STD0	Standard	18	1
STD1	Standard	19	1
STD2	Standard	20	1
ICV M1320	Sample	21	1
ICB	Sample	22	1
ICS A	Sample	23	1
ICS AB	Sample	24	1
T-MB 02/03	Sample	25	1
T-SRM 0287	Sample	27	1
T-SRM 0287	Sample	28	1
T-27907-847	Sample	29	1
T-847 MD	Sample	30	1
T-848	Sample	31	1
T-849	Sample	32	1
T-850	Sample	33	1
CCV M1320	Sample	34	1
CCB	Sample	35	1
T-850 MS PDS	Sample	36	1
T-850 MSD PDS	Sample	37	1
T-850 MS PDS	Sample	38	1
T-850 MSD	Sample	39	1
CCV M1320	Sample	40	1
CCB	Sample	41	1

Data not acceptable

GRAPHICS: SIGNAL DISPLAY SUMMARY REPORT

Data Set:	SENSITIVITY
Data Set Description:	
Parameter File:	ALROptimize
Sample ID:	MP13-05
Sample Description:	
Sample Type:	Sample
Sequence Number:	206
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	30
Time:	11:23:39 Mar 3 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35

	Intensity	Intensity Std Dev	RSD
Mg 24	3.030E+04	489.2711	1.61
Rh 103	6.225E+04	1027.3345	1.65
Pb 208	6.705E+04	2291.2446	3.42
CeO 156	0.0421	3.949E-03	9.39
$Ce 140	1.061E+05	1732.3701	1.63
Ba++ 138	0.0108	7.726E-04	7.13

000201

Parameter Entry Report

File name: Zn
Description:

Sweeps/Reading:	40
Readings/Replicate:	1
Number of Replicates:	3
Points Across Peak:	1
Resolution:	Normal
Scanning Mode:	Peak Hop
Baseline Time (ms):	0
Transfer Frequency:	Replicate
Polarity:	+

Element/ Mass	Mass	Internal Standard	Times (ms): Replicate	Dwell	OmniRange
Zn	66		1000	25	0.0
Ge	73	<	1000	25	0.0
Cl	35		1000	25	29.5
Ca	44		1000	25	20.0
Ti	47		1000	25	0.0
Br	81		1000	25	0.0
Kr	83		1000	25	0.0

Elemental Equations:

Zn 66 = Zn 66 - 0.003 * Ti 47
Ge 73 = Ge 73
Cl 35 = Cl 35
Ca 44 = Ca 44
Ti 47 = Ti 47
Br 81 = Br 81
Kr 83 = Kr 83

Manual Settings:

Plasma Flow:	10 L/min	RF Power:	1080 Watts
Nebulizer Flow:	0.933 L/min	CEM Voltage:	-3.3 kV
Auxiliary Flow:	1 L/min	Sample Uptake:	1 mL/min

000202

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3399
Data Set Description:	
Parameter File:	Zn
Sample ID:	STD0
Sample Description:	
Sample Type:	Standard
Sequence Number:	018
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	12:55:32 Mar 3 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	62	10.1730	0	0.0000
Ge 73	70572	143.7101	0	0.0000
Cl 35	99	7.0946	0	0.0000
Ca 44	10	3.0000	0	0.0000
Ti 47	197	24.1941	0	0.0000
Br 81	3647	24.5713	0	0.0000
Kr 83	25	7.8103	0	0.0000

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	8.796E-04	1.442E-04			ppb	
Ge 73	70572	143.7101			ions/sec	
Cl 35	99	7.0946				
Ca 44	10	3.0000				
Ti 47	197	24.1941				
Br 81	3647	24.5713				
Kr 83	25	7.8103				

	Entered Conc.
Zn 66	0.0000
Ge 73	
Cl 35	
Ca 44	
Ti 47	
Br 81	
Kr 83	

000203

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3399
Data Set Description:	
Parameter File:	Zn
Sample ID:	STD1
Sample Description:	
Sample Type:	Standard
Sequence Number:	019
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	12:56:58 Mar 3 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	2761	54.0871	0	0.0000
Ge 73	63157	408.3631	0	0.0000
Cl 35	97	5.1961	0	0.0000
Ca 44	20	5.5076	0	0.0000
Ti 47	196	8.6606	0	0.0000
Br 81	3561	81.0415	0	0.0000
Kr 83	26	6.0277	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	<]	0.0437	8.564E-04	10.0000	0.2000	ppb	1.9995
Ge 73		63157	408.3631			ions/sec	
Cl 35		97	5.1961				
Ca 44		20	5.5076				
Ti 47		196	8.6606				
Br 81		3561	81.0415				
Kr 83		26	6.0277				

		Entered Conc.
Zn 66	<]	10.0000
Ge 73		
Cl 35		
Ca 44		
Ti 47		
Br 81		
Kr 83		

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3399
Data Set Description:	
Parameter File:	Zn
Sample ID:	STD2
Sample Description:	
Sample Type:	Standard
Sequence Number:	020
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	12:58:40 Mar 3 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	47371	158.9864	0	0.0000
Ge 73	61508	409.8462	0	0.0000
Cl 35	100	5.1960	0	0.0000
Ca 44	18	5.6863	0	0.0000
Ti 47	201	13.7961	0	0.0000
Br 81	3648	35.9582	0	0.0000
Kr 83	31	1.7320	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	<]	0.7702	2.585E-03	199.9701	0.6738	ppb	0.3370
Ge 73		61508	409.8462			ions/sec	
Cl 35		100	5.1960				
Ca 44		18	5.6863				
Ti 47		201	13.7961				
Br 81		3648	35.9582				
Kr 83		31	1.7320				

		Entered Conc.
Zn 66	<]	200.0000
Ge 73		
Cl 35		
Ca 44		
Ti 47		
Br 81		
Kr 83		

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3399
Data Set Description:	
Parameter File:	Zn
Sample ID:	ICV M1320
Sample Description:	
Sample Type:	Sample
Sequence Number:	021
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	13:00:39 Mar 3 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	23840	169.6593	0	0.0000
Ge 73	58462	255.0937	0	0.0000
Cl 35	89	10.0167	0	0.0000
Ca 44	40	9.2916	0	0.0000
Ti 47	215	27.2279	0	0.0000
Br 81	3519	46.1329	0	0.0000
Kr 83	31	2.0816	0	0.0000

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	0.4078	2.902E-03	105.5079	106% 0.7565	ppb	0.7170
Ge 73	58462	255.0937			ions/sec	
Cl 35	89	10.0167				
Ca 44	40	9.2916				
Ti 47	215	27.2279				
Br 81	3519	46.1329				
Kr 83	31	2.0816				

000206

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3399
Data Set Description:	
Parameter File:	Zn
Sample ID:	ICB
Sample Description:	
Sample Type:	Sample
Sequence Number:	022
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	13:03:04 Mar 3 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	52	7.0547	0	0.0000
Ge 73	60205	516.1429	0	0.0000
Cl 35	87	13.2036	0	0.0000
Ca 44	13	2.6458	0	0.0000
Ti 47	200	7.0234	0	0.0000
Br 81	3605	101.7108	0	0.0000
Kr 83	20	6.2450	0	0.0000

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	8.642E-04	1.172E-04	-0.5716	0.0305	ppb	5.3444
Ge 73	60205	516.1429			ions/sec	
Cl 35	87	13.2036				
Ca 44	13	2.6458				
Ti 47	200	7.0234				
Br 81	3605	101.7108				
Kr 83	20	6.2450				

000207

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3399
Data Set Description:	
Parameter File:	Zn
Sample ID:	ICS A
Sample Description:	S5753 (10:100)
Sample Type:	Sample
Sequence Number:	023
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	13:05:25 Mar 3 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	561	110.7173	0	0.0000
Ge 73	59617	103.4290	0	0.0000
Cl 35	4819	144.0574	0	0.0000
Ca 44	49740	993.9053	0	0.0000
Ti 47	266063	1264.4885	0	0.0000
Br 81	4185	27.8358	0	0.0000
Kr 83	73	5.5077	0	0.0000

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	9.411E-03	1.857E-03	1.6566	0.4841	ppb	29.2243
Ge 73	59617	103.4290			ions/sec	
Cl 35	4819	144.0574				
Ca 44	49740	993.9053				
Ti 47	266063	1264.4885				
Br 81	4185	27.8358				
Kr 83	73	5.5077				

000208

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3399
Data Set Description:	
Parameter File:	Zn
Sample ID:	ICS AB
Sample Description:	S5753 (10:100) S5745 (1:100)
Sample Type:	Sample
Sequence Number:	024
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	13:07:05 Mar 3 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	4495	81.9444	0	0.0000
Ge 73	55376	267.7505	0	0.0000
Cl 35	5887	191.3046	0	0.0000
Ca 44	61290	930.6486	0	0.0000
Ti 47	325797	1472.3428	0	0.0000
Br 81	4137	67.1561	0	0.0000
Kr 83	82	11.7899	0	0.0000

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	0.0812	1.480E-03	20.3644	0.3858	ppb	1.8943
Ge 73	55376	267.7505			ions/sec	
Cl 35	5887	191.3046				
Ca 44	61290	930.6486				
Ti 47	325797	1472.3428				
Br 81	4137	67.1561				
Kr 83	82	11.7899				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3399
Data Set Description:	
Parameter File:	Zn
Sample ID:	T-MB 02/03
Sample Description:	
Sample Type:	Sample
Sequence Number:	025
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	13:09:06 Mar 3 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	1159	12.8975	0	0.0000
Ge 73	52946	129.5891	0	0.0000
Cl 35	155	5.5078	0	0.0000
Ca 44	119	10.5987	0	0.0000
Ti 47	414	21.9403	0	0.0000
Br 81	3660	81.2373	0	0.0000
Kr 83	22	1.1547	0	0.0000

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	0.0219	2.436E-04	4.9086	<0.005 0.0635	ppb	1.2937
Ge 73	52946	129.5891			Ions/sec	
Cl 35	155	5.5078				
Ca 44	119	10.5987				
Ti 47	414	21.9403				
Br 81	3660	81.2373				
Kr 83	22	1.1547				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3399
Data Set Description:	
Parameter File:	Zn
Sample ID:	T-SRM 0287
Sample Description:	(0.25:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	027
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	13:14:03 Mar 3 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	2905	25.0935	0	0.0000
Ge 73	58205	427.9785	0	0.0000
Cl 35	100	6.0000	0	0.0000
Ca 44	3155	31.4149	0	0.0000
Ti 47	265	5.1962	0	0.0000
Br 81	3480	73.1696	0	0.0000
Kr 83	21	10.1160	0	0.0000

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	0.0499	4.311E-04	12.2120	0.1124	ppb	0.9203
Ge 73	58205	427.9785			ions/sec	
Cl 35	100	6.0000				
Ca 44	3155	31.4149				
Ti 47	265	5.1962				
Br 81	3480	73.1696				
Kr 83	21	10.1160				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3399
Data Set Description:	
Parameter File:	Zn
Sample ID:	T-SRM 0287
Sample Description:	(0.25:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	028
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	13:17:09 Mar 3 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	2477	52.0063	0	0.0000
Ge 73	56252	1499.8041	0	0.0000
Cl 35	96	21.8252	0	0.0000
Ca 44	2643	128.4684	0	0.0000
Ti 47	275	23.1807	0	0.0000
Br 81	3425	67.5155	0	0.0000
Kr 83	22	2.0000	0	0.0000

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	0.0440	9.245E-04	10.6830	214 ok 0.2410	ppb	2.2560
Ge 73	56252	1499.8041			ions/sec	
Cl 35	96	21.8252				
Ca 44	2643	128.4684				
Ti 47	275	23.1807				
Br 81	3425	67.5155				
Kr 83	22	2.0000				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3399
Data Set Description:	
Parameter File:	Zn
Sample ID:	T-27907-847
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	029
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	13:19:16 Mar 3 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	41208	576.5675	0	0.0000
Ge 73	55911	781.7640	0	0.0000
Cl 35	97	20.0002	0	0.0000
Ca 44	1264	26.3146	0	0.0000
Ti 47	770	6.1143	0	0.0000
Br 81	3376	60.2389	0	0.0000
Kr 83	23	2.0816	0	0.0000

	Net Ratio/ Intensity	Std. Dev.	Conc. mg/kg	Std. Dev.		% RSD
Zn 66	0.7370	0.0103	191.3365	2.6883	ppb	1.4050
Ge 73	55911	781.7640	190		ions/sec	
Cl 35	97	20.0002				
Ca 44	1264	26.3146				
Ti 47	770	6.1143				
Br 81	3376	60.2389				
Kr 83	23	2.0816				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3399
Data Set Description:	
Parameter File:	Zn
Sample ID:	T-847 MD
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	030
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	13:20:50 Mar 3 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	41621	700.7299	0	0.0000
Ge 73	58361	1252.0267	0	0.0000
Cl 35	92	8.0208	0	0.0000
Ca 44	1332	26.5636	0	0.0000
Ti 47	824	31.5145	0	0.0000
Br 81	3407	37.5101	0	0.0000
Kr 83	20	6.5064	0	0.0000

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	0.7132	0.0120	185.1151 3/µg	3.1300	ppb	1.6908
Ge 73	58361	1252.0267			ions/sec	
Cl 35	92	8.0208				
Ca 44	1332	26.5636				
Ti 47	824	31.5145				
Br 81	3407	37.5101				
Kr 83	20	6.5064				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3399
Data Set Description:	
Parameter File:	Zn
Sample ID:	T-848
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	031
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	13:22:53 Mar 3 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	6457	73.2517	0	0.0000
Ge 73	51322	561.0541	0	0.0000
Cl 35	92	15.0112	0	0.0000
Ca 44	771	43.2117	0	0.0000
Ti 47	5052	50.8347	0	0.0000
Br 81	3289	23.0355	0	0.0000
Kr 83	19	1.1547	0	0.0000

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	0.1258	1.427E-03	31.9991	0.3721	ppb	1.1628
Ge 73	51322	561.0541			ions/sec	
Cl 35	92	15.0112				
Ca 44	771	43.2117				
Ti 47	5052	50.8347				
Br 81	3289	23.0355				
Kr 83	19	1.1547				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3399
Data Set Description:	
Parameter File:	Zn
Sample ID:	T-849
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	032
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	13:24:39 Mar 3 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	8467	179.8873	0	0.0000
Ge 73	53283	217.2809	0	0.0000
Cl 35	91	4.5092	0	0.0000
Ca 44	909	20.3018	0	0.0000
Ti 47	337	30.0729	0	0.0000
Br 81	3200	59.1196	0	0.0000
Kr 83	25	10.0167	0	0.0000

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Zn 66	0.1589	3.376E-03	40.6259 ppb	0.8801 ppb	2.1663
Ge 73	53283	217.2809		ions/sec	
Cl 35	91	4.5092			
Ca 44	909	20.3018			
Ti 47	337	30.0729			
Br 81	3200	59.1196			
Kr 83	25	10.0167			

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3399
Data Set Description:	
Parameter File:	Zn
Sample ID:	T-850
Sample Description:	(0.5:50)(0.1:10)
Sample Type:	Sample
Sequence Number:	033
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	13:26:42 Mar 3 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	2857	127.5282	0	0.0000
Ge 73	57171	251.4524	0	0.0000
Cl 35	109	9.0185	0	0.0000
Ca 44	508	13.8929	0	0.0000
Ti 47	3653	32.0861	0	0.0000
Br 81	3270	77.6437	0	0.0000
Kr 83	23	4.3589	0	0.0000

	Net Ratio/ Intensity	Std. Dev.	Conc. mg/kg	Std. Dev.		% RSD
Zn 66	0.0500	2.231E-03	12.2281	0.5815	ppb	4.7554
Ge 73	57171	251.4524	120		ions/sec	
Cl 35	109	9.0185				
Ca 44	508	13.8929				
Ti 47	3653	32.0861				
Br 81	3270	77.6437				
Kr 83	23	4.3589				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3399
Data Set Description:	
Parameter File:	Zn
Sample ID:	CCV M1320
Sample Description:	
Sample Type:	Sample
Sequence Number:	034
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	13:28:25 Mar 3 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	19174	325.9312	0	0.0000
Ge 73	45374	9822.1650	0	0.0000
Cl 35	89	1.7323	0	0.0000
Ca 44	27	8.7369	0	0.0000
Ti 47	197	35.3842	0	0.0000
Br 81	3231	199.2562	0	0.0000
Kr 83	28	4.9329	0	0.0000

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	0.4226	7.183E-03	109.3649	1.8726	ppb	1.7122
Ge 73	45374	9822.1650			ions/sec	
Cl 35	89	1.7323				
Ca 44	27	8.7369				
Ti 47	197	35.3842				
Br 81	3231	199.2562				
Kr 83	28	4.9329				

000218

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3399
Data Set Description:	
Parameter File:	Zn
Sample ID:	CCB
Sample Description:	
Sample Type:	Sample
Sequence Number:	035
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	13:30:18 Mar 3 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	44	6.8892	0	0.0000
Ge 73	45721	641.1680	0	0.0000
Cl 35	96	15.1438	0	0.0000
Ca 44	11	3.0550	0	0.0000
Ti 47	146	7.5717	0	0.0000
Br 81	3107	78.7847	0	0.0000
Kr 83	20	2.5166	0	0.0000

		Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66		9.685E-04	1.507E-04	-0.5444 cm	0.0393	ppb	7.2155
Ge 73	<]	45721	641.1680			ions/sec	
Cl 35		96	15.1438				
Ca 44		11	3.0550				
Ti 47		146	7.5717				
Br 81		3107	78.7847				
Kr 83		20	2.5166				

000219

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3399
Data Set Description:	
Parameter File:	Zn
Sample ID:	T-850 MS PDS
Sample Description:	(0.5:50)(0.1:10) 0.1 mL OF MP1208-09 IN 10 ml
Sample Type:	Sample
Sequence Number:	036
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	13:32:19 Mar 3 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	11686	275.6073	0	0.0000
Ge 73	29956	383.6250	0	0.0000
Cl 35	84	2.0817	0	0.0000
Ca 44	10132	186.1646	0	0.0000
Ti 47	57543	452.0366	0	0.0000
Br 81	3013	78.8980	0	0.0000
Kr 83	28	2.3094	0	0.0000

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	0.3901	9.200E-03	100.9004	2.3984	ppb	2.3770
Ge 73	29956	383.6250			ions/sec	
Cl 35	84	2.0817				
Ca 44	10132	186.1646				
Ti 47	57543	452.0366				
Br 81	3013	78.8980				
Kr 83	28	2.3094				

000220

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3399
Data Set Description:	
Parameter File:	Zn
Sample ID:	T-850 MSD PDS
Sample Description:	(0.5:50)(0.1:10) 0.1 ml OF MP1208/09 IN 10 ml
Sample Type:	Sample
Sequence Number:	037
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	13:34:03 Mar 3 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	10564	49.0460	0	0.0000
Ge 73	35119	89.8199	0	0.0000
Cl 35	91	19.3478	0	0.0000
Ca 44	9024	97.7973	0	0.0000
Ti 47	51548	228.1627	0	0.0000
Br 81	2956	66.5796	0	0.0000
Kr 83	23	6.1101	0	0.0000

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Zn 66	0.3008	1.397E-03	77.6185 ppb	0.3641 ppb	0.4690
Ge 73	35119	89.8199		ions/sec	
Cl 35	91	19.3478			
Ca 44	9024	97.7973			
Ti 47	51548	228.1627			
Br 81	2956	66.5796			
Kr 83	23	6.1101			

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3399
Data Set Description:	
Parameter File:	Zn
Sample ID:	T-850 MS PDS
Sample Description:	(0.5:50)(0.1:10) 0.1 ml OF MP1208-09 IN 10 ml
Sample Type:	Sample
Sequence Number:	038
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	13:37:20 Mar 3 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	9212	131.4739	0	0.0000
Ge 73	36164	103.9273	0	0.0000
Cl 35	93	11.1356	0	0.0000
Ca 44	7625	149.1170	0	0.0000
Ti 47	43967	110.0049	0	0.0000
Br 81	2958	47.9926	0	0.0000
Kr 83	26	2.0817	0	0.0000

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	0.2547	3.635E-03	65.6075	0.9477	ppb	1.4445
Ge 73	36164	103.9273			ions/sec	
Cl 35	93	11.1356				
Ca 44	7625	149.1170				
Ti 47	43967	110.0049				
Br 81	2958	47.9926				
Kr 83	26	2.0817				

000222

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3399
Data Set Description:	
Parameter File:	Zn
Sample ID:	T-850 MSD
Sample Description:	
Sample Type:	Sample
Sequence Number:	039
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	13:42:07 Mar 3 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	9393	96.5273	0	0.0000
Ge 73	32039	337.6960	0	0.0000
Cl 35	96	6.4291	0	0.0000
Ca 44	7565	143.5836	0	0.0000
Ti 47	44601	136.9691	0	0.0000
Br 81	2973	48.0003	0	0.0000
Kr 83	24	2.8868	0	0.0000

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	0.2932	3.013E-03	75.6288	14%(190.7854	ppb	1.0385
Ge 73	32039	337.6960			ions/sec	
Cl 35	96	6.4291				
Ca 44	7565	143.5836				
Ti 47	44601	136.9691				
Br 81	2973	48.0003				
Kr 83	24	2.8868				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3399
Data Set Description:	
Parameter File:	Zn
Sample ID:	CCV M1320
Sample Description:	
Sample Type:	Sample
Sequence Number:	040
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	13:44:20 Mar 3 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	13996	275.3715	0	0.0000
Ge 73	35074	334.8250	0	0.0000
Cl 35	96	14.1540	0	0.0000
Ca 44	24	5.2915	0	0.0000
Ti 47	179	29.1037	0	0.0000
Br 81	2967	47.1615	0	0.0000
Kr 83	21	3.6056	0	0.0000

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Zn 66	0.3991	7.851E-03	103.2304	2.0467	ppb	1.9827
Ge 73	35074	334.8250			ions/sec	
Cl 35	96	14.1540				
Ca 44	24	5.2915				
Ti 47	179	29.1037				
Br 81	2967	47.1615				
Kr 83	21	3.6056				

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set:	3399
Data Set Description:	
Parameter File:	Zn
Sample ID:	CCB
Sample Description:	
Sample Type:	Sample
Sequence Number:	041
Blank:	Not Subtracted
Dilution Factor:	1
Number of Repeats:	3
Time:	13:45:56 Mar 3 1999
Signal Profile Processing:	Average
Spectral Peak Processing:	Average
Deadtime Correction:	35
Calibration File:	[Untitled]
Calibration:	External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Zn 66	58	4.6040	0	0.0000
Ge 73	33804	45.1393	0	0.0000
Cl 35	94	4.7259	0	0.0000
Ca 44	10	2.0817	0	0.0000
Ti 47	136	8.0209	0	0.0000
Br 81	2935	62.5840	0	0.0000
Kr 83	27	4.5826	0	0.0000

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Zn 66	1.714E-03	1.362E-04	-0.3501 ok	0.0355 ppb	10.1400
Ge 73	33804	45.1393		ions/sec	
Cl 35	94	4.7259			
Ca 44	10	2.0817			
Ti 47	136	8.0209			
Br 81	2935	62.5840			
Kr 83	27	4.5826			