

Method Name: AsHGA Element: As
 Method Description: AsHga SM 3113 B

Date: 10/09/2001
 Technique: Furnace Calibration Equation: Calc. Intercept: Linear
 Wavelength: 193.7 nm Slit Width: 0.70 nm
 Lamp Current: 0 Energy: 63
 Sample Info File: Untitled Results Data Set:

Element: As AS Loc.: 36 Date: 10/09/2001
 Sample ID: Calib Blank
 µL dispensed: 10 from 36, 5 from 37, 20 from 36

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1			0.000	0.000	0.025	12:28:26	No

Auto-zero performed.

Element: As AS Loc.: 38 Date: 10/09/2001
 Sample ID: S10
 µL dispensed: 25 from 36, 5 from 37, 5 from 38

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1			0.057	0.057	0.024	12:31:03	No

Standard number 1 applied. [10]

Correlation Coefficient: 1.0000 Slope: 0.0057

Element: As AS Loc.: 38 Date: 10/09/2001
 Sample ID: S20
 µL dispensed: 20 from 36, 5 from 37, 10 from 38

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1			0.100	0.100	0.029	12:33:46	No

Standard number 2 applied. [20]

Correlation Coefficient: 0.9967 Slope: 0.0050

Element: As AS Loc.: 38 Date: 10/09/2001
 Sample ID: S30
 µL dispensed: 15 from 36, 5 from 37, 15 from 38

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1			0.151	0.151	0.031	12:36:28	No

Standard number 3 applied. [30]

Correlation Coefficient: 0.9986 Slope: 0.0050

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 Element: As AS Loc.: 38 Date: 10/09/2001

Sample ID: S40

* μ L dispensed: 10 from 36, 5 from 37, 20 from 38

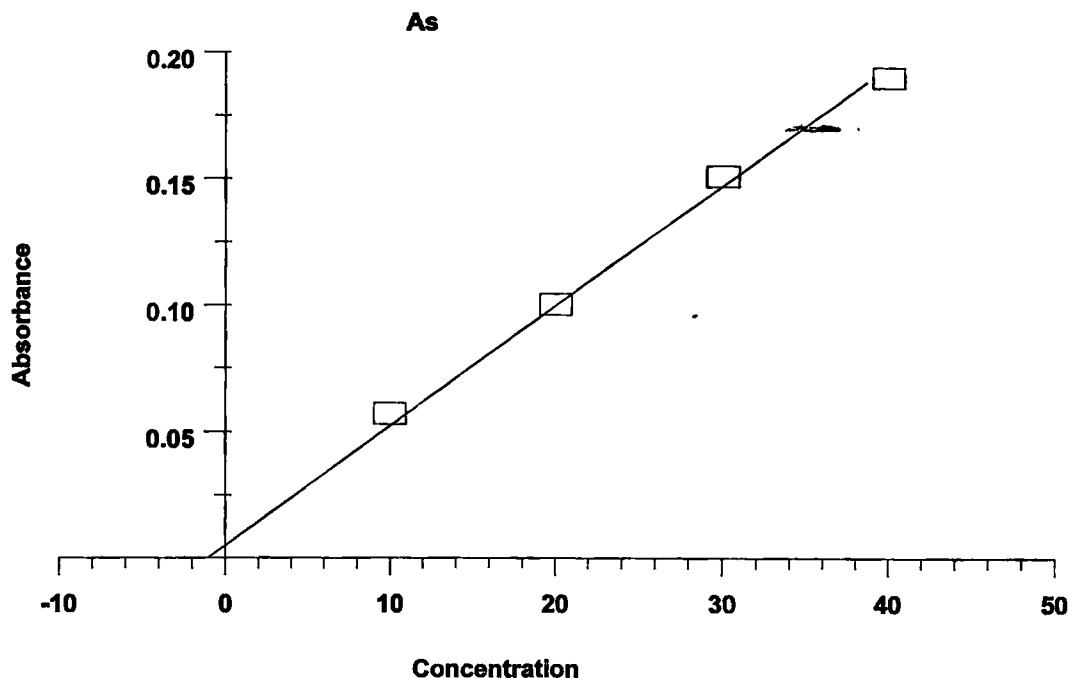
Repl #	SampleConc μ g/L	StndConc μ g/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1			0.190	0.190	0.034	12:39:10	No

The calibration curve may not be linear.

Standard number 4 applied. [40]

Correlation Coefficient: 0.9982 ✓

Slope: 0.0047



 Calibration data for As

Standard ID	Mean Signal (Pk Area)	Entered Concentration (μ g/L)	Calculated Concentration (μ g/L)	Standard Deviation	%RSD
Calib Blank	0.000	----	-1.038	----	----
S10	0.057	10	11.04	----	----
S20	0.100	20	20.12	----	----
S30	0.151	30	30.81	----	----
S40	0.190	40	39.07	----	----

Correlation Coefficient: 0.99816 ✓ Slope: 0.00474 Intercept: 0.005

=====
 Element: As AS Loc.: 1 Date: 10/09/2001

Sample ID: qcs

µL dispensed: 10 from 36, 5 from 37, 20 from 1

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	10.01	10.01	0.052	0.052	0.022	12:53:24	No

 QC value within specified limits.
 =====

=====
 Element: As AS Loc.: 2 Date: 10/09/2001

Sample ID: ipc

µL dispensed: 10 from 36, 5 from 37, 20 from 2

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	19.61	19.61	0.098	0.098	0.024	12:56:01	No

 QC value within specified limits.
 =====

=====
 Element: As AS Loc.: 3 Date: 10/09/2001

Sample ID: cb

µL dispensed: 10 from 36, 5 from 37, 20 from 3

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.835	-0.835	0.001	0.001	0.016	12:58:38	No

 =====

=====
 Element: As AS Loc.: 4 Date: 10/09/2001

Sample ID: lfb

µL dispensed: 10 from 36, 5 from 37, 20 from 4

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	38.27	38.27	0.186	0.186	0.031	13:01:15	No

 QC value within specified limits.
 =====

=====
 Element: As AS Loc.: 5 Date: 10/09/2001

Sample ID: lrb

µL dispensed: 10 from 36, 5 from 37, 20 from 5

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.978	-0.978	0.000	0.000	0.014	13:03:52	No

 =====

=====
 Element: As AS Loc.: 6 Date: 10/09/2001

Sample ID: 24268

µL dispensed: 10 from 36, 5 from 37, 20 from 6

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.617	-0.617	0.002	0.002	0.025	13:06:31	No

 =====

=====
Element: As AS Loc.: 6 Date: 10/09/2001

Sample ID: 24268

µL dispensed: 5 from 37, 10 from 38, 20 from 6

Repl #	SampleConc µg/L	StdConc µg/L	BlncCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	19.58	19.58	0.098	0.098	0.030	13:09:07	No

Recovery is 97.9%

=====
Element: As AS Loc.: 7 Date: 10/09/2001

Sample ID: 24268dup

µL dispensed: 10 from 36, 5 from 37, 20 from 7

Repl #	SampleConc µg/L	StdConc µg/L	BlncCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	0.792	-0.792	0.001	0.001	0.026	13:11:47	No

=====
Element: As AS Loc.: 8 Date: 10/09/2001

Sample ID: 24287

µL dispensed: 10 from 36, 5 from 37, 20 from 8

Repl #	SampleConc µg/L	StdConc µg/L	BlncCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.351	-0.351	0.003	0.003	0.016	13:14:28	No

=====
Element: As AS Loc.: 9 Date: 10/09/2001

Sample ID: 24288

µL dispensed: 10 from 36, 5 from 37, 20 from 9

Repl #	SampleConc µg/L	StdConc µg/L	BlncCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.439	-0.439	0.003	0.003	0.017	13:17:10	No

=====
Element: As AS Loc.: 10 Date: 10/09/2001

Sample ID: 24289

µL dispensed: 10 from 36, 5 from 37, 20 from 10

Repl #	SampleConc µg/L	StdConc µg/L	BlncCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.009	-0.009	0.005	0.005	0.016	13:19:55	No

=====
Element: As AS Loc.: 11 Date: 10/09/2001

Sample ID: 24290

µL dispensed: 10 from 36, 5 from 37, 20 from 11

Repl #	SampleConc µg/L	StdConc µg/L	BlncCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.746	-0.746	0.001	0.001	0.019	13:22:40	No

=====
 Element: As AS Loc.: 12 Date: 10/09/2001

Sample ID: 24291

μL dispensed: 10 from 36, 5 from 37, 20 from 12

Repl #	SampleConc μg/L	StdConc μg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	0.184	0.184	0.006	0.006	0.015	13:25:26	No

=====
 Element: As AS Loc.: 13 Date: 10/09/2001

Sample ID: 24292

μL dispensed: 10 from 36, 5 from 37, 20 from 13

Repl #	SampleConc μg/L	StdConc μg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.887	-0.887	0.001	0.001	0.019	13:28:11	No

=====
 Element: As AS Loc.: 14 Date: 10/09/2001

Sample ID: 24293

μL dispensed: 10 from 36, 5 from 37, 20 from 14

Repl #	SampleConc μg/L	StdConc μg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.134	-0.134	0.004	0.004	0.019	13:30:57	No

=====
 Element: As AS Loc.: 2 Date: 10/09/2001

Sample ID: ipc

μL dispensed: 10 from 36, 5 from 37, 20 from 2

Repl #	SampleConc μg/L	StdConc μg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	19.19	19.19	0.096	0.096	0.023	13:33:38	No

QC value within specified limits.

=====
 Element: As AS Loc.: 3 Date: 10/09/2001

Sample ID: cb

μL dispensed: 10 from 36, 5 from 37, 20 from 3

Repl #	SampleConc μg/L	StdConc μg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.558	-0.558	0.002	0.002	0.015	13:36:16	No

=====
 Element: As AS Loc.: 15 Date: 10/09/2001

Sample ID: 24395

μL dispensed: 10 from 36, 5 from 37, 20 from 15

Repl #	SampleConc μg/L	StdConc μg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.033	-0.033	0.005	0.005	0.017	13:38:58	No

=====
 Element: As AS Loc.: 16 Date: 10/09/2001

Sample ID: 24396

µL dispensed: 10 from 36, 5 from 37, 20 from 16

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.835	-0.835	0.001	0.001	0.017	13:41:41	No

=====
 Element: As AS Loc.: 16 Date: 10/09/2001

Sample ID: 24396

µL dispensed: 5 from 37, 10 from 38, 20 from 16

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	19.76	19.76	0.099	0.099	0.022	13:44:26	No

Recovery is 98.8%

=====
 Element: As AS Loc.: 17 Date: 10/09/2001

Sample ID: 24397

µL dispensed: 10 from 36, 5 from 37, 20 from 17

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.196	-0.196	0.004	0.004	0.017	13:47:09	No

=====
 Element: As AS Loc.: 18 Date: 10/09/2001

Sample ID: 24398

µL dispensed: 10 from 36, 5 from 37, 20 from 18

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.499	-0.499	0.003	0.003	0.016	13:49:50	No

=====
 Element: As AS Loc.: 19 Date: 10/09/2001

Sample ID: 24399

µL dispensed: 10 from 36, 5 from 37, 20 from 19

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.082	-0.082	0.005	0.005	0.016	13:52:30	No

=====
 Element: As AS Loc.: 20 Date: 10/09/2001

Sample ID: 24400

µL dispensed: 10 from 36, 5 from 37, 20 from 20

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	0.175	0.175	0.006	0.006	0.015	13:55:09	No

=====
 Element: As AS Loc.: 21 Date: 10/09/2001

Sample ID: 24401

μL dispensed: 10 from 36, 5 from 37, 20 from 21

Repl #	SampleConc μg/L	StndConc μg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.155	-0.155	0.004	0.004	0.016	13:57:47	No

=====
 Element: As AS Loc.: 22 Date: 10/09/2001

Sample ID: 24437

μL dispensed: 10 from 36, 5 from 37, 20 from 22

Repl #	SampleConc μg/L	StndConc μg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.216	-0.216	0.004	0.004	0.021	14:00:21	No

=====
 Element: As AS Loc.: 23 Date: 10/09/2001

Sample ID: 24439

μL dispensed: 10 from 36, 5 from 37, 20 from 23

Repl #	SampleConc μg/L	StndConc μg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	0.993	0.993	0.010	0.010	0.028	14:02:58	No

=====
 Element: As AS Loc.: 2 Date: 10/09/2001

Sample ID: ipc

μL dispensed: 10 from 36, 5 from 37, 20 from 2

Repl #	SampleConc μg/L	StndConc μg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	19.78	19.78	0.099	0.099	0.024	14:05:37	No

QC value within specified limits.

=====
 Element: As AS Loc.: 3 Date: 10/09/2001

Sample ID: cb

μL dispensed: 10 from 36, 5 from 37, 20 from 3

Repl #	SampleConc μg/L	StndConc μg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.636	-0.636	0.002	0.002	0.016	14:08:14	No

=====
 Element: As AS Loc.: 24 Date: 10/09/2001

Sample ID: 24472

μL dispensed: 10 from 36, 5 from 37, 20 from 24

Repl #	SampleConc μg/L	StndConc μg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.064	-0.064	0.005	0.005	0.016	14:10:52	No

=====
 Element: As AS Loc.: 25 Date: 10/09/2001

Sample ID: 24473

µL dispensed: 10 from 36, 5 from 37, 20 from 25

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.197	-0.197	0.004	0.004	0.018	14:13:31	No

=====
 Element: As AS Loc.: 26 Date: 10/09/2001

Sample ID: 24474

µL dispensed: 10 from 36, 5 from 37, 20 from 26

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.086	-0.086	0.005	0.005	0.017	14:16:13	No

=====
 Element: As AS Loc.: 26 Date: 10/09/2001

Sample ID: 24474

µL dispensed: 5 from 37, 10 from 38, 20 from 26

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	20.75	20.75	0.103	0.103	0.022	14:18:49	No

Recovery is 103.8%

=====
 Element: As AS Loc.: 27 Date: 10/09/2001

Sample ID: 24474dup

µL dispensed: 10 from 36, 5 from 37, 20 from 27

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.147	-0.147	0.004	0.004	0.016	14:21:32	No

=====
 Element: As AS Loc.: 28 Date: 10/09/2001

Sample ID: 24475

µL dispensed: 10 from 36, 5 from 37, 20 from 28

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.212	-0.212	0.004	0.004	0.018	14:24:17	No

=====
 Element: As AS Loc.: 29 Date: 10/09/2001

Sample ID: 24476

µL dispensed: 10 from 36, 5 from 37, 20 from 29

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.539	-0.539	0.002	0.002	0.017	14:27:03	No

=====
 Element: As AS Loc.: 30 Date: 10/09/2001

Sample ID: 24477

μL dispensed: 10 from 36, 5 from 37, 20 from 30

Repl #	SampleConc μg/L	StndConc μg/L	Blncorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	0.296	0.296	0.006	0.006	0.015	14:29:50	No

=====
 Element: As AS Loc.: 31 Date: 10/09/2001

Sample ID: 24478

μL dispensed: 10 from 36, 5 from 37, 20 from 31

Repl #	SampleConc μg/L	StndConc μg/L	Blncorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.682	-0.682	0.002	0.002	0.017	14:32:35	No

=====
 Element: As AS Loc.: 32 Date: 10/09/2001

Sample ID: 24479

μL dispensed: 10 from 36, 5 from 37, 20 from 32

Repl #	SampleConc μg/L	StndConc μg/L	Blncorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	0.180	-0.180	0.004	0.004	0.017	14:35:20	No

=====
 Element: As AS Loc.: 2 Date: 10/09/2001

Sample ID: ipc

μL dispensed: 10 from 36, 5 from 37, 20 from 2

Repl #	SampleConc μg/L	StndConc μg/L	Blncorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	20.76	20.76	0.103	0.103	0.024	14:38:01	No

QC value within specified limits.

=====
 Element: As AS Loc.: 3 Date: 10/09/2001

Sample ID: cb

μL dispensed: 10 from 36, 5 from 37, 20 from 3

Repl #	SampleConc μg/L	StndConc μg/L	Blncorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.680	-0.680	0.002	0.002	0.015	14:40:38	No

=====
 Element: As AS Loc.: 33 Date: 10/09/2001

Sample ID: 24480

μL dispensed: 10 from 36, 5 from 37, 20 from 33

Repl #	SampleConc μg/L	StndConc μg/L	Blncorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	0.227	0.227	0.006	0.006	0.015	14:43:19	No

=====
 Element: As AS Loc.: 34 Date: 10/09/2001

Sample ID: 24481

✓ μ L dispensed: 10 from 36, 5 from 37, 20 from 34

Repl #	SampleConc μ g/L	StdConc μ g/L	BlnkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.580	-0.580	0.002	0.002	0.020	14:46:00	No

=====
 Element: As AS Loc.: 35 Date: 10/09/2001

Sample ID: 24482

μ L dispensed: 10 from 36, 5 from 37, 20 from 35

Repl #	SampleConc μ g/L	StdConc μ g/L	BlnkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.568	-0.568	0.002	0.002	0.017	14:48:40	No

=====
 Element: As AS Loc.: 2 Date: 10/09/2001

Sample ID: ipc

μ L dispensed: 10 from 36, 5 from 37, 20 from 2

Repl #	SampleConc μ g/L	StdConc μ g/L	BlnkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	20.32	20.32	0.101	0.101	0.023	14:51:18	No

QC value within specified limits.

=====
 Element: As AS Loc.: 3 Date: 10/09/2001

Sample ID: cb

μ L dispensed: 10 from 36, 5 from 37, 20 from 3

Repl #	SampleConc μ g/L	StdConc μ g/L	BlnkCorr Signal	Peak Area	Bkgnd Area	Time	Peak Stored
1	-0.389	-0.389	0.003	0.003	0.014	14:53:55	No