

Certified Laboratories, Inc.

**Degradation
of
Chlorite in Soil
Final Report
on
Performance of Protocol
of
3/24/1999**

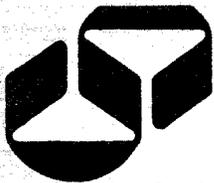
001479

For: Alcide Corporation
May 21, 1999

**Copy
of
Proposed Protocol**

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DEGRADATION OF CHLORITE IN SOIL: PROTOCOL OF 3/24/1999

This document reflects changes and refinement in experimental design relative to the protocol dated 2/9/1999. These changes are based on the results of that study.

Significant new text is italicized for clarity.

I. OBJECTIVE

To estimate the rate of degradation of the chlorite ion in soil, simulating conditions applicable to use of 4XLA Teat Dip.

II. BACKGROUND

The study is being undertaken at the request of Alcide Corporation, to satisfy regulatory requirements in the Netherlands. Some parameters of the study are therefore specified by the test protocols in use under the regulatory regime. For example, this study is done at a temperature of 10°C to typify outdoor ambient temperature.

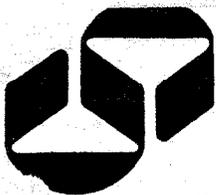
Three soil samples have been provided by Alcide's representative Dr. Robert Kross, that vary in organic content and microbiological load.

III. TECHNICAL ISSUES

The total rate of degradation of chlorite ion is determined by the sum of the rate of reduction of chlorite by materials in the soil and that of any auto-degradation of the chlorite. In a matrix with a high organic load, reduction is likely to be dominant. Under these conditions we believe that the kinetics are likely to be simple as long as the reducing capacity of the matrix is large compared to the amount of analyte added to the matrix. In effect the process will then behave as if it were zero order in terms of constituents of the matrix.

Further, the spiking level chosen for the experiment should be at least as high as any levels likely in the real-life application.

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The teat dip contains about 2400 ppm of chlorite ion. If we assume that any spillage of the teat dip is likely to be diluted by a factor of at least 10 by dispersion in soil we expect an initial concentration of chlorite ion equal to no more than 240 ppm in the soil. This would appear to be a reasonable a priori assumption.

Prior experience with chlorite determinations leads us to expect detection limits in the 5-20ppm range in a matrix with high levels of co-extractable. We believe, therefore, that a spiking level of 240 ppm chlorite will meet both of the above requirements. The concentration is high enough to represent a reasonable simulation of the actual conditions and makes for relatively straightforward quantitation, yet low enough that it is unlikely to affect the substrates in the matrix to any great extent.

This study will attempt to determine whether, under these conditions, the concentration of chlorite ion in soil falls below detectable levels within a month.

In order to guard against unexpectedly high reaction rates the chlorite level will be monitored over relatively short intervals in the early stages of the study.

A preliminary evaluation of the protocol has been performed. This protocol reflects the experience of that evaluation.

The study will be run as follows:

A number of sub-samples of soil, sufficient for the number of data points desired, will be treated with a 4XLA solution containing about 2400 ppm chlorite ion, in combination with lactic acid at a pH of ca. 3.0. This will provide about 240 μ g chlorite ion per gram of soil and require only about 0.1ml of solution per gram of soil. Sufficient water will then be added to moisten the soil without leaving any supernatant. This matrix will be mixed and set aside for the appropriate time period.

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Sub-samples will be set up in separate centrifuge tubes, one per data point.

Tubes will be taken at appropriate intervals. A known amount of water will be added to facilitate extraction, and a portion of the liquid will be removed after appropriate mixing. This portion will be analyzed by HPLC and the chlorite level will be calculated to reflect the level in the reaction mixture.

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IV. EQUIPMENT/MATERIALS

1. HPLC system, isocratic, with autosampler, UV detector at 214nm and Waters Associates IC-PAK Anion HC column, 4.6mm id X 150mm, guard column, borate-gluconate mobile phase specified by Waters Associates.
2. Sodium tetraborate, gluconic acid and acetonitrile (for mobile phase)
3. Sodium chlorite stock solution (supplied by Dr. Kross)
4. Syringe filters, syringes and other consumables as needed
5. Miscellaneous laboratory glassware as needed
6. Circulating water bath or other suitable equipment for maintenance of temperature at 10° C

V. METHODOLOGY

Soil samples have been provided by Alcide Corporation. Bacterial load has been characterized. Samples are being stored under refrigeration.

1. *Prepare a solution containing 2400 ppm chlorite ion (1:1 Aqueous dilution of 4XLA base), at a pH of 10. Call this solution A.*
2. *Take a known weight of soil (3-4 g) in a centrifuge tube.*
3. *Add a quantity of solution A. such that there is 240 ppm chlorite ion on original soil basis. Mix well. Dilute with known amount of water to ensure appropriate mechanical handling.*
4. *Immediately remove an aliquot and filter for HPLC.*
5. *Determine level of chlorite in the extract, expressed as ppm relative to original weight of soil. This provides a time zero level.*
6. *Prepare a 4XLA solution containing 2400 ppm chlorite ion and 1.32% lactic acid at pH 3. Call this solution B.*
7. *In additional centrifuge tubes take similar weighed portions of soil. Add solution B, so as to have 240ppm chlorite on original soil basis. Add enough water to allow for the soil to be moist but not waterlogged. Record the amount of water required and keep consistent for all data points for any given sample throughout the experiment. Mix well and maintain at 10°C.*
8. *At appropriate intervals remove the tubes. Add known amounts of water to dilute the sample and to enable removal of a liquid aliquot from the supernatant. Measure the weight, dilute with a known amount of water and remove an aliquot for HPLC examination.*

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9. Filter through an appropriate membrane filter and measure the chlorite level. Relate back to soil basis.
10. In additional centrifuge tubes take similar weighed portions of soil. Add deionized water. Mix well and maintain at 10° C. Use these as blanks. Ensure that the soil to water ratio is the same as for the samples in the degradation portion of the study. Set up enough blanks to cover the duration of the experiment.
11. Examine the data to obtain an understanding of the rate of degradation.

VI. SCHEDULING

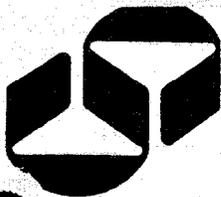
The schedule for the study has been designed to provide 8 days worth of data on day 8 of the study and final data on day 28. Sub-samples will be set up in reverse order, so that all will be ready for analysis, in two batches, one to provide data at day 8, the other to provide data at day 28.

The schedule is as follows:

Day 0 is the day on which the samples will be set up. The blanks will be set up in parallel. The time zero experiment with alkaline chlorite will be set up and performed on day 8.

Reaction time	Day on which set up	Day on which analyzed
8 days	0	8
4 days	4	8
2 days	6	8
1 day	7	8
8 hours	8	8
4 hours	8	8
28 days	0	28
24 days	4	28
20 days	8	28
16 days	12	28
12 days	16	28

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VII. FINAL REPORT

The final report will provide documentation of any change in conditions relative to the protocol. Results will be presented graphically, as a plot of the chlorite concentration against time.

The blank data will be used to determine if any baseline problems develop as the experiment proceeds.

VIII. COST

The cost for executing this final protocol will be \$4500.

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Final Report

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CHARACTERIZATION OF SOIL SAMPLES

Three samples of soil were received from Alcide Corporation. These were characterized as follows:

Sample id	Moisture (%)	Organics (%)	
		Dry basis	Soil basis
A	30.0	13.34	9.34
C	3.2	0.71	0.69
E	44.2	53.07	29.6

The moisture content was determined again at the beginning of the study to allow for an accurate estimate of the effective volume of the final aqueous phase. Results were as follows:

Sample Identification	Moisture content (%)
A	26.55
C	1.81
E	53.12

PREPARATION OF CHLORITE SOLUTIONS

Materials for the preparation of 4XLA Teat Dip were provided by Alcide Corporation. This product consists of a solution of sodium chlorite labeled "4XLA Base", Alcide lot #AC071-014B and one of lactic acid labeled "4XLA Activator", Alcide lot #AC071-014A. Mixing equal volumes of the two solutions produces 4XLA Teat Dip, with a concentration of 2400 ppm of chlorite ion.

All experiments were set up to deliver a nominal 240µg of chlorite ion per gram of soil. Slightly different treatment of the samples permitted the production of more homogeneous reaction mixtures for each sample. Actual levels of added chlorite are documented for each sample.

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[REDACTED]
[REDACTED]
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4XLA Teat Dip solutions:

The components for the teat dip were mixed as per the instructions to produce 4XLA Teat Dip at a concentration of 2400 ppm of chlorite ion.

A further 5 times dilution of the 4XLA Teat Dip was made with water, to obtain a solution with a concentration of 480ppm of chlorite ion.

The 2400ppm solution was used for samples A and C. The 480ppm solution was used for sample E. The solutions were prepared immediately prior to use.

Spiking solutions for the time zero experiment

A spiking solution for the time zero experiments was prepared by dilution of the 4XLA Base, as provided by Alcide for preparation of the teat dip, with an equal volume of water instead of the lactic acid solution. This yielded a solution containing 2400 ppm of chlorite ion, but without the acid.

A further 5 times dilution was made with water, to obtain a solution with a concentration of 480ppm of chlorite ion.

The 2400ppm solution was used for samples A and C. The 480ppm solution was used for sample E.

The difference in handling for samples A and C on the one hand and sample E on the other was made necessary by the much higher water-holding capacity of sample E. This is presumably attributable to the much higher organic content. This makes it difficult to distribute a small amount of liquid uniformly through the matrix. Further, the bulk density of sample E appears to be much lower than for the other samples. This also required some adjustment in sample size to keep the volume of sample manageable.

Analytical standards

Analytical standards were prepared by dilution of a 30.7% solution of sodium chlorite provided by Alcide Corporation. These standards provided quite stable response at the HPLC over the duration of the chromatographic work.

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ADDITION OF CHLORITE TO SOIL

The nominal target level for addition of chlorite ion was 240 μ g per gram of soil. Each sample was handled in such a way that subsamples, representing different exposure times, were very close in weight. The actual levels were therefore very consistent during this study, thus making the kinetics of the process more obvious.

Actual amounts and spike levels are tabulated below.

Preparation of samples for time zero experiment

A weighed portion of soil was taken in a 50 ml centrifuge tube. Spiking solution was added as tabulated below.

Sample	Sample weight (g)	Spiking solution used	Volume used	Spike level (μ g/g soil)
A	8.5	2400 ppm	1 ml	282
C	8.1	2400 ppm	1 ml	282
E	5.2	480 ppm	3.6 ml	332

The solution was mixed into the soil. Water (20 ml) was added. The tube was shaken for 2 minutes to homogenize the aqueous phase and immediately centrifuged for 5min. A portion of the supernatant was removed and filtered through a PTFE membrane filter. The filtrate was used immediately for HPLC analysis.

Preparation of samples for degradation experiments

A weighed portion of soil was taken in a 50 ml centrifuge tube. 4XLA Teat Dip (or the 5X dilution) was added to the soil as tabulated below.

Sample	Sample weight (g)	Teat dip solution used	Volume used	Spike level (μ g/g soil)
A	8.5	2400 ppm	1 ml	282
C	8.1	2400 ppm	1 ml	282
E	5.2	480 ppm	3.6 ml	332

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The solution was mixed into the soil. The sample was set aside for the appropriate degradation period.

At the end of the appropriate period water (20 ml) was added. The tube was shaken for 2 min. to homogenize the aqueous phase and immediately centrifuged for 5min. A portion of the supernatant was removed and filtered through a PTFE membrane. The filtrate was used for HPLC analysis.

Preparation of blanks

A weighed portion of soil was taken in a 50 ml centrifuge tube. Water was added and mixed in to produce a wet sample corresponding to the samples as prepared above. The tube was then set aside for the appropriate storage period.

At the end of the appropriate period water (20 ml) was added. The tube was shaken for 2min to homogenize the aqueous phase and immediately centrifuged for 5 min. A portion of the supernatant was removed and filtered through a PTFE membrane. The filtrate was used for HPLC analysis.

A separate blank was prepared for each sample, for each degradation period.

CHROMATOGRAPHIC CONDITIONS

Mobile phase for HPLC:

Sodium gluconate (16 g), boric acid (18 g) and sodium tetraborate decahydrate (25 g) were dissolved in about 500 ml deionized water. Glycerin (250 ml) was added and the mixture was made up to 1 L with deionized water. This concentrate was kept in the refrigerator and used as needed for production of mobile phase.

The actual mobile phase was made by taking 20 ml of the above concentrate and 120 ml of acetonitrile and making up to 1 L with deionized water.

A flow rate of 2 ml/min provided retention time of about 4 min for chlorite.

The size of the chlorite peak was estimated as the height of the peak above the nominal baseline.

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Using this height as the estimate of response, chlorite ion concentration was calculated as μg chlorite ion per gram of original soil.

The analytical standards were of concentration 91.6, 45.8 and 18.3 $\mu\text{g}/\text{ml}$, expressed as chlorite ion.

OBSERVATIONS AND CONCLUSIONS

Time zero experiment

Exposure time	Final chlorite concentration (ppm, soil basis)		
	Sample A	Sample C	Sample E
Minimum possible	149	228	204

It may be noted that the time zero experiment is a "best effort" at establishing the level of chlorite detectable at the start of the experiment and is not precisely a measurement at time = 0 seconds. It does represent the absolute minimum time consistent with the handling and extraction operations. Further, for this experiment the chlorite solutions were not acidified with lactic acid. Since the rate of reduction of chlorite ion is higher in acidic media, this experiment provides a worst-case estimate of the level of chlorite recoverable from the matrix at the start of the experiment. In all cases where the actual teat dip (with the acidified solutions) were applied, the corresponding levels would be expected to be lower, given the likely lower reaction rates.

Degradation experiments

Exposure time	Final chlorite concentration (ppm, soil basis)		
	Sample A	Sample C	Sample E
4 hrs	0	109	38
8 hrs	0	85	0
1 day	0	66	0
2 days	0	24	0
4 days	0	7	0
8 days	0	0	0

We include copies of the relevant chromatograms for blanks, the time zero experiment and the extracts for the degradation experiment.

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Our conclusions are as follows:

- The chlorite is completely consumed in less than eight days, even for the sample with lowest organic content.
- In sample E, which has the highest organic content (29.6% on as-is soil basis), a starting chlorite concentration of 332 μ g chlorite ion per gram of soil falls below the limit of detection in less than 8 hours.
- In sample A, which has intermediate organic content (9.34% on as-is soil basis), a starting chlorite concentration of 282 μ g chlorite ion per gram of soil falls below the limit of detection in less than 4 hours.
- In sample C, which has the lowest organic content (0.69% on as-is soil basis), a starting chlorite concentration of 282 μ g chlorite ion per gram of soil falls below the limit of detection in between 4 days and 8 days.
- The time zero experiment, which provides the most conservative, worst-case estimate of the starting concentration as actually measured, shows that even under those conditions there is significant degradation at essentially zero exposure time.

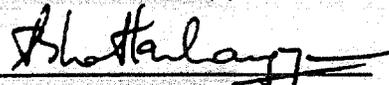
It may be noted that the disappearance of chlorite occurs earlier in sample A than in sample E, even though sample E has the higher organic content. It is reasonable to attribute this to the higher initial level of chlorite in sample E as also to the lower effective concentration in the aqueous phase, given the need to use a larger volume of solution to administer that chlorite level to the bulkier sample E.

Signed:


Yevana Soria
(Analyst)

Date: 05/24/99

Reviewed and approved


Shankar Bhattacharyya
(Manager, Instrumentation,
& Science Officer)

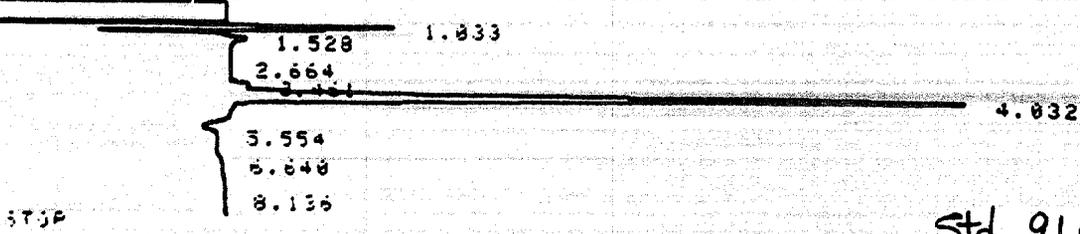
Date: 5/24/99

001492

* ID STO 91.6/H20

BEST AVAILABLE COPY

RUN # 4492 APR 15, 1999 09:10:48
START



Std 91.6 ppm

Closing signal file MISIGNAL .BNC

RUN# 4492 APR 15, 1999 09:10:48

SAMPLE NAME: SOIL
METHOD NAME: M*CHLORITE.MET
G/IC-PORT: 2101A

IDENTIFIER: STO 91.6/H20
SIGNAL FILE: MISIGNAL.BNC

CHLORITE

ESTO-MREW

RT	PE	AREA	WIDTH	HEIGHT	CALC	PPM	NAME
1.033	P	2145963	.211	169536		.000	
1.528	P	1967569	.546	50090		.000	
2.664	P	3233	.203	265		.000	
3.461	P	116166	.211	9158		.000	
4.032	B	5065213	.261	322835	IR	71.157	CHLORITE
5.554	B	255360	.554	7582		.000	
6.648	B	460364	.793	3676		.000	
8.136	B	228610	1.327	11663		.000	

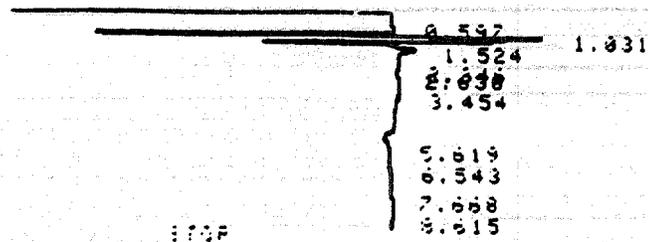
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MUL FACTOR = 1.0000E+00

001493

*10 MWTO BLANK

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START



Sample A-Blank
start Exp.

STOP

Closing signal file MSIGNAL .BNC

RUN# 446 APR 15, 1999 09:57:19

SAMPLE NAME: SOIL
METHOD NAME: CHLORITE.MET
G/IC-94732:014

IDENTIFIED MWTO BLANK
SIGNAL FILE: MSIGNAL.BNC

CHLORITE

NO CHLORITE PEAKS FOUND
AREA:

RET	AREA	TYPE	WIDTH	AREA%
1.031	3352341	BP	.542	7.96682
1.524	3312766	PV	.247	7.80294
1.524	581263	VV	.618	13.68799
2.146	4895950	VV	.614	11.53176
2.146	7363650	VV	.706	12.68120
3.474	3884544	VV	1.611	25.51985
3.474	1332456	VV	.319	3.55594
6.543	3445613	VV	1.002	6.53814
7.468	134568	VV	.843	1.14346
8.019	412103	I VH	1.737	1.17194

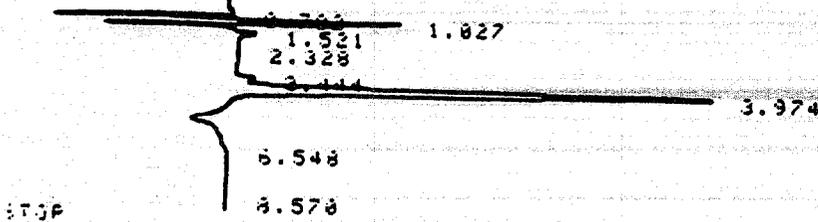
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MUL FACTOR=1.3866E+00

001494

*10 #M/TOSAMPLE

* RUN # 4497 APR 15. 1999 10:13:43
START

Sample A
Start Exp.



Closing signal file M:SIGNAL .BNC

RUN# 4497 APR 15. 1999 10:13:43

SAMPLE NAME: SOIL
METHOD NAME: M*CHLORITE.MET
G/IC-PART 921014

IDENTIFIER: #M/TOSAMPLE
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

ESTD-WREA

RT	TYPE	WREA	WIDTH	HEIGHT	CHL#	PPM	NAME
1.027	PP	202274	.127	37155		.000	
1.521	PP	1896309	.209	150950		.000	
2.328	PV	3056629	.552	78107		.000	
3.444	VV	1651900	.523	52660		.000	
3.974	VV	1088755	.550	33014		.000	
6.548	IR	3638358	.371	323762	IR	51.112	CHLORITE
8.578	IR	1359386	1.319	17183		.000	
8.578	M	2126939	1.057	17250		.000	

TOTAL WREA=1.5103E+07

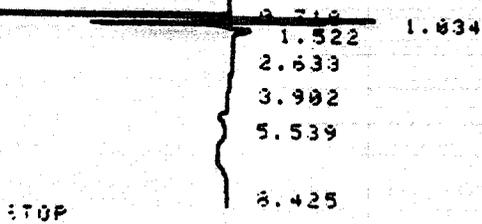
MUL FACTOR=1.0000E+00

001495

NO #C/TO BLANK

RUN # 4498 APR 15, 1999 10:28:43
START

Sample C - Blank
Start Exp.



STOP

Closing signal file M:SIGNAL .BNC

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SAMPLE NAME: SOIL
METHOD NAME: M*CHLORITE.NET
G:\IC-PORT\32101A

IDENTIFIER : #C/TO BLANK
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

ESTD-AREA

RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
0.718	SP	3251862	.386	140495		.000	
1.034	SV	3171010	.239	221486		.000	
1.522	VB	3195765	.582	91478		.000	
2.633	IV	15500	.248	1041		.000	
3.902	IV	125755	.718	2919	IR	1.767	CHLORITE
5.539	FP	311251	.331	4236		.000	
8.425	SV	265472	2.073	2134		.000	

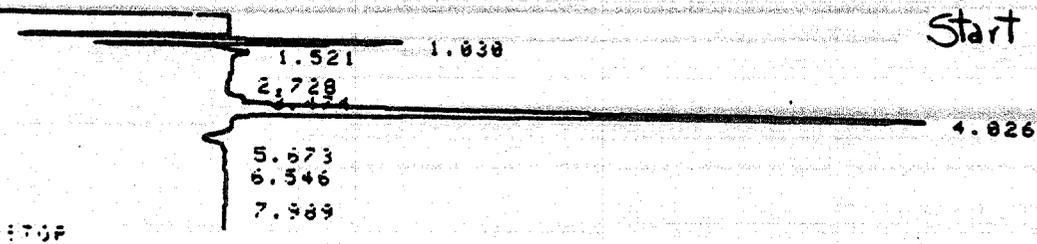
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MUL FACTOR=1.0000E+00

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*10 00/10

* RUN # 4499 APR 15. 1999 10:40:22
START

Sample C
Start Exp.



STOP

Closing signal file SIGNAL .BNC

RUN# 4499 APR 15. 1999 10:40:22

SAMPLE NAME: SOIL
METHOD NAME: CHLORITE.MET
GC (C-PORT) 11914

IDENTIFIED: CHLORITE
SIGNAL FILE: SIGNAL.BNC

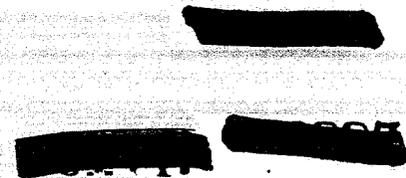
CHLORITE

ESTD-NAME

RET	AREA	WIDTH	HEIGHT	CALC	PPM	NAME
1.030	1964066	.210	163922		.000	
1.521	3080208	.615	33471		.000	
2.728	921664	.343	44724		.000	
3.475	1604288	.808	33089		.000	
4.026	5383363	.201	319418	1R	75.626	CHLORITE
5.673	517787	.972	10598		.000	
6.546	234710	.470	10093		.000	
7.989	736603	1.177	11282		.000	

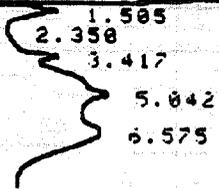
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MUL FACTOR=1.5000E+00

001497



*TO WE TO BLANK

RUN # 9500 APR 15, 1999 10:59:11
START



STOP

Closing signal file MISIGNAL .BNC

Sample E - Blank
Start Exp.

RUN# 9500 APR 15, 1999 10:59:11

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METHOD NAME: M*CHLORITE.MET
G: IC-PM-732101A

IDENTIFIER: WE TO BLANK
SIGNAL FILE: MISIGNAL.BNC

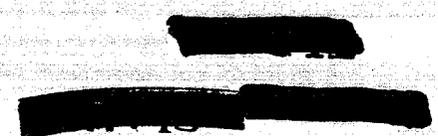
CHLORITE

NO CALIB PEAKS FOUND
WREN%

RT	WREN	TYPE	WIDTH	WREN%
0.900	4750170	SHB	.149	11.36394
1.505	3931714	UV	.756	9.18670
2.350	1144184	UV	.302	2.73726
3.417	5127242	UV	1.000	12.26602
5.042	12592848	UV	1.977	30.12616
6.575	14354224	UV	2.310	34.33994

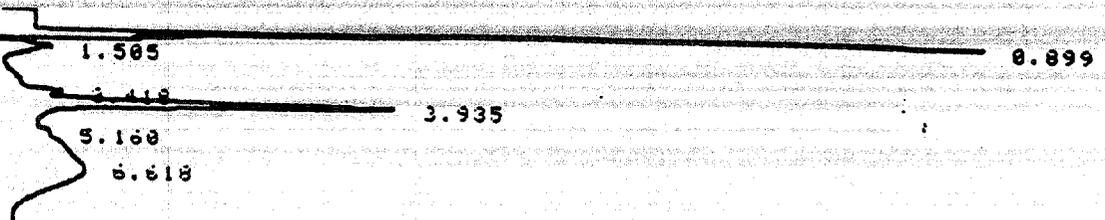
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MUL FACTOR=1.0000E+00

001498



*10 WE-73

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START



STOP

Closing signal file MISIGNAL .BNC

Sample E
Start Exp.

RUN# 9501 APR 15, 1999 11:15:57

SAMPLE NAME: SOIL
METHOD NAME: CHLORITE.MET
G/IC-PRM: 1.000

IDENTIFIER: *10
SIGNAL FILE: SIGNAL.BNC

CHLORITE

ESTD-WPE-

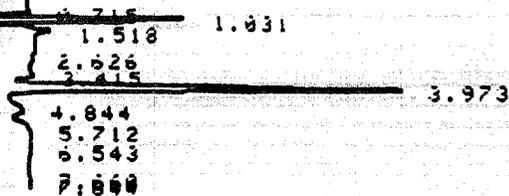
RT	WPE	AREA	WIDTH	HEIGHT	CALC	PPM	NAME
0.899	0.00	4137093	.136	506196		.000	
1.505	0.00	3042218	.657	77213		.000	
3.418	0.00	2931046	1.414	34549		.000	
3.935	0.00	2975654	.296	167327	IR	41.802	CHLORITE
5.160	0.00	134602	.281	7974		.000	
6.618	0.00	2847608	1.806	26286		.000	

TOTAL WPE=1.0000E+00
MUL FACTOR=1.0000E+00

001499

* RUN # 3503 APR 15, 1999 11:33:50
START

STOP



Closing signal file M:SIGNAL .BNC

RUN# 3503 APR 15, 1999 11:33:50

SAMPLE NAME: SOIL
METHOD NAME: M*CHLORITE.MET
G/IC-PORT32101H

IDENTIFIER : STD 45.8 PPM
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

ESTD-WREN

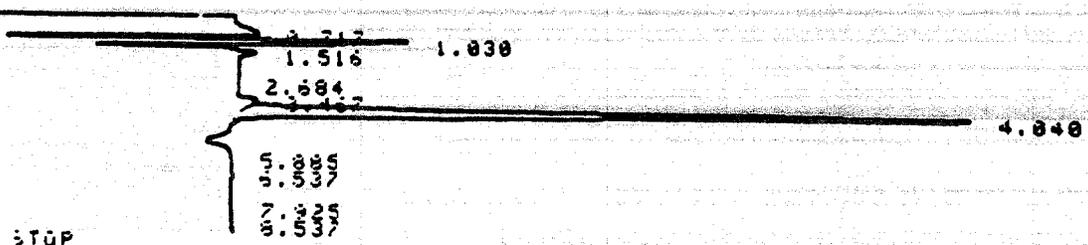
RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
0.715	SP	3574302	.463	128704		.000	
1.031	PV	3278085	.243	324487		.000	
1.518	VV	5238432	.566	154256		.000	
2.626	VV	3768722	.516	121494		.000	
3.415	VV	3972282	.625	185988		.000	
3.973	VV	5545421	.358	257876	IR	77.983	CHLORITE
4.844	VV	3783798	.874	78648		.000	
5.712	VV	3534882	1.078	54629		.000	
6.543	VV	1289476	.583	36894		.000	
7.060	VV	1859348	1.415	12475		.000	
7.844	VV	156669	.301	8667		.000	

TOTAL WREN=3.5113E+07
MUL FACTOR=1.0000E+00

001500

*ID STD 91.6 PPM/H2O

* RUN # 9504 APR 15. 1999 11:43:39
START



STOP

Closing signal file M:SIGNAL .BNC

RUN# 9504 APR 15. 1999 11:43:39

SAMPLE NAME: SOIL
METHOD NAME: M+CHLORITE.NET
G/IC-PART32101H

IDENTIFIER : STD 91.6 PPM
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

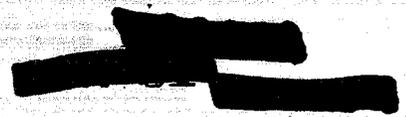
ESTD-MREW

RT	TYPE	MREW	WIDTH	HEIGHT	CAL#	PPM	NAME
0.717	BP	2370206	.446	58552		.000	
1.030	PP	2059223	.208	165100		.000	
1.516	PB	1806140	.527	57135		.000	
2.584	BV	17504	.537	543		.000	
3.467	VV	140730	.232	10112		.000	
4.040	VB	5126291	.262	325550	IR	72.015	CHLORITE
5.335	BV	593010	.370	11901		.000	
6.537	VV	300663	.435	11059		.000	
7.925	VV	378732	1.176	12454		.000	
8.537	VV	646307	.350	12676		.000	

TOTAL MREW=1.4032E+07

MUL FACTOR=1.0000E+00

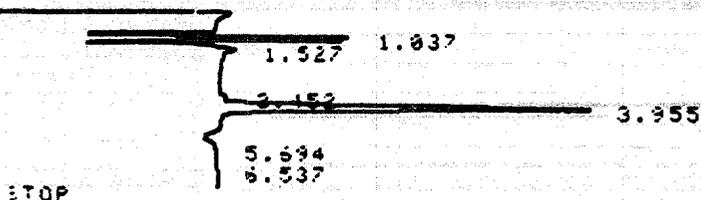
001501



*10 45.8/H20

* RUN # 8638 APR 20, 1999 12:40:56

START



STOP

Closing signal file M:SIGNAL .BNC

RUN# 8638 APR 20, 1999 12:40:56

Std 45.8 ppm

SAMPLE NAME: SOIL

METHOD NAME: M*CHLORITE.MET

GC/IC-FW/T82101A

IDENTIFIER : 45.8/H20

SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

ESTD-HEIGHT

RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
1.037	BP	2532101	.184	229145		.000	
1.527	BP	1484725	.192	34087		.000	
3.453	BP	30433	.134	6917		.000	
3.955	BP	4582765	.235	326952	1R	50.295	CHLORITE
5.694	BP	713345	.961	12377		.000	
5.537	BP	276818	.397	11627		.000	

TOTAL HEIGHT= 37:105

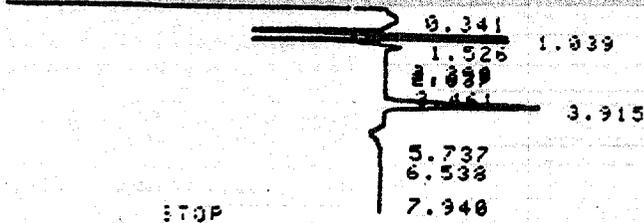
MUL FACTOR=1.3000E+00

001502

001502

*ID TO 18.32 PPM

* RUN # 9634 APR 20, 1999 12:51:05
START



Closing signal file M:SIGNAL .BNC

RUN# 9634 APR 20, 1999 12:51:05

SAMPLE NAME: SOIL
METHOD NAME: 1*CHLORITE.MET
G/IC-PA-111111

IDENTIFIER : STD 18.32 PPM
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

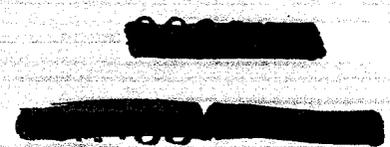
ESTD-HEIGHT

RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
0.341	SP	2556437	.848	50229		.000	
1.039	SP	3659370	.193	223776		.000	
1.526	SP	5052675	.715	117795		.000	
2.039	SP	1714515	.392	72863		.000	
2.461	SP	1353977	.430	54413		.000	
3.915	SP	1415150	.612	38552		.000	
3.915	SP	2672178	.285	156432	1R	24.064	CHLORITE
5.737	SP	925771	.923	9446		.000	
6.538	SP	117213	.803	8700		.000	
7.940	SP	686363	1.095	10445		.000	

TOTAL HEIGHT= 751646

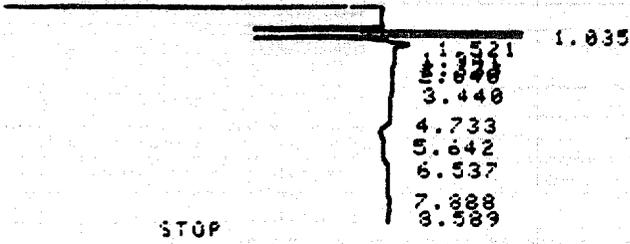
MUL FACTOR=1.0000E+00

001503



*ID #A/BLANK.4H

* RUN # 9640 APR 20, 1999 13:02:05
START



Closing signal file M:SIGNAL .BNC

RUN# 9640 APR 20, 1999 13:02:05

Sample A - Blank
4 hours

SAMPLE NAME: SOIL
METHOD NAME: M*CHLORITE.MET
G/IC-PAK/T32101A

IDENTIFIED : #A/BLANK.4H
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

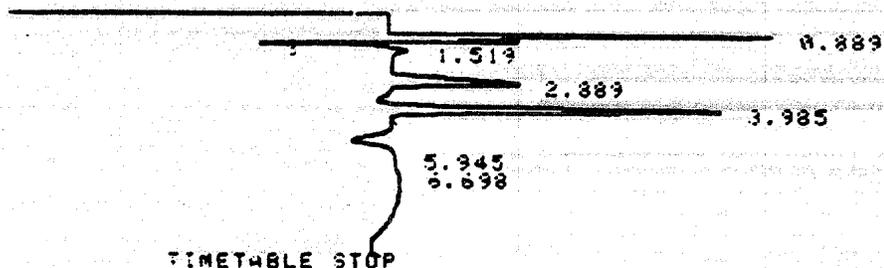
NO CALIB PEAKS FOUND
AREAS:

RT	AREA	TYPE	WIDTH	AREA%
1.035	3140450	< BP	.245	11.39150
1.521	1872574	< PV	.501	14.04716
1.941	1274294	WV	.195	4.62230
2.033	1956493	WV	.475	10.72422
2.640	1759221	WV	.466	10.00864
3.440	4943837	WV	.999	17.93300
4.733	1623607	WV	.461	4.61435
5.642	1279246	WV	.717	3.66761
6.537	1344502	WV	.396	3.82245
7.469	1132640	WV	.360	3.53395
8.589	106525	WV	.144	.03436

TOTAL AREA=1.7543E+07
MUL FACTOR=1.0000E+00

001504

* RUN # 9643 APR 20, 1999 13:40:23
START



Closing signal file M:SIGNAL .BNC

RUN# 9643 APR 20, 1999 13:40:23

SAMPLE NAME: SOIL
METHOD NAME: M=CHLORITE.MET
G/IC-P4K/TS21014

Sample C
4 hours

IDENTIFIER : * C/4h
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

ESTD-WEIGHT

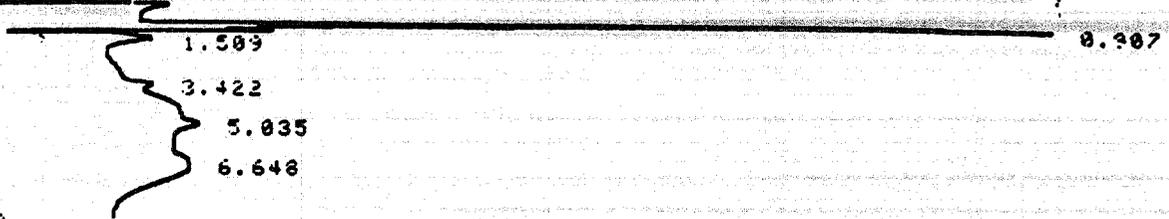
RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
0.889	SB	4221722	.195	361026		.000	
1.519	SB	2385638	.471	34485		.000	
2.889	SB	2109877	.507	114546		.000	
3.985	SB	4074906	.227	199257	IR	46.835	CHLORITE
5.945	SB	1368985	.576	39394		.000	
6.698	SB	1864677	.729	42645		.000	

TOTAL HEIGHT= 941353

MUL FACTOR=1.0000E+00

001505

* RUN # 4644 APR 20, 1999 13:52:15
START



STOP

Closing signal file M:SIGNAL .BNC

RUN# 4644 APR 20, 1999 13:52:15

SAMPLE NAME: -SIL
METHOD NAME: CHLORITE.MET
G/IC-PCX 1111314

Sample E - blank
4 hours

IDENTIFIED: e blank / 4h
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

NO CALIB PEAKS FOUND
AREA:

RT	AREA	TYPE	WIDTH	AREAX
8.987	7101859	<SBB	.140	10.88825
1.509	4768099	<BV	.623	7.31024
3.422	4763563	VV	1.269	14.97672
5.035	14553373	VV	1.953	29.87667
6.648	14034176	I VV	2.499	36.84913

TOTAL AREA=6.5335E+07

MUL FACTOR=1.0000E+00

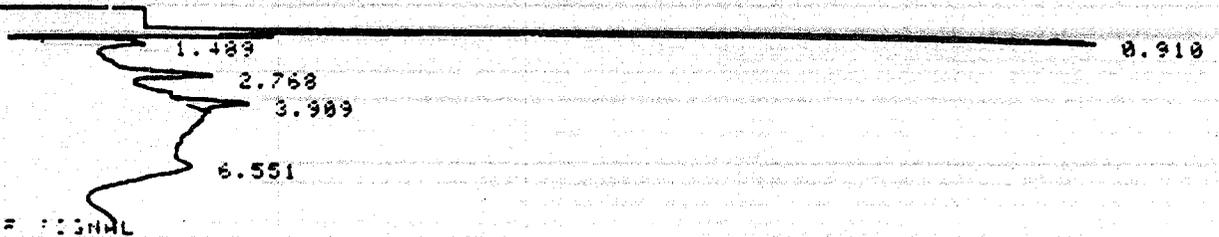
001506

* ZERO 20 2

*RM

RUN # 9646 -PP 20. 1999 14:16:12

STWPT



END OF SIGNAL

Closing signal. file M:SIGNAL .BNA

RUN# 9646 APR 20. 1999 14:16:12

SAMPLE NAME: CHL

METHOD NAME: CHLORITE.MET

Q/IC-PAN 11111-

Sample E
4 hours

IDENTIFIED: 1 = e/4h
SIGNAL FILE: M:SIGNAL.BNA

CHLORITE

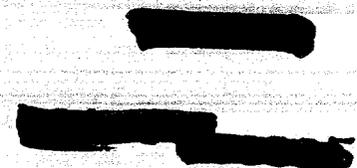
ESTD-HEIGHT

RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
1.410	BB	8388720	.121	1154675		.000	
1.489	EV	3167362	.445	118497		.000	
2.768		3948589	.755	175522		.000	
3.989		17812736	2.155	288958	1R	32.144	CHLORITE
6.551	W	14125912	1.487	158275		.000	

TOTAL HEIGHT=1115927

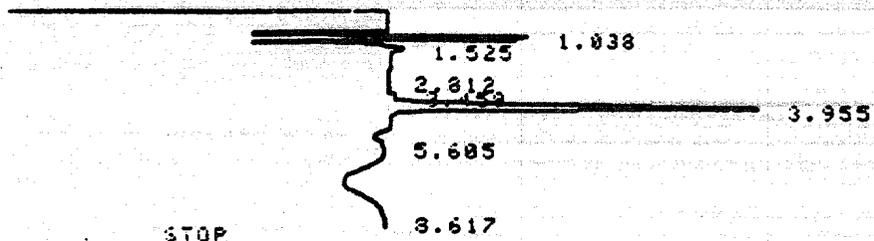
MUL FACTOR=1.0000E+00

001507



IO STD

* RUN # 9647 APR 20, 1999 14:30:36
START



Closing signal file M:SIGNAL .BNC

RUN# 9647 APR 20, 1999 14:30:36

SAMPLE NAME: SOIL
METHOD NAME: M=CHLORITE.MET
G/IC-PAK.T32101A

IDENTIFIER : STD# 45.8 ppm
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

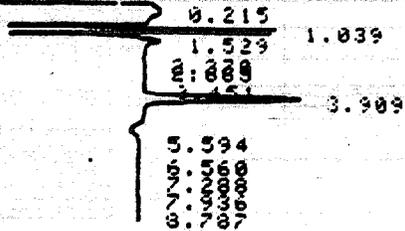
ESTO-HEIGHT

RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
1.038	SP	2654062	.184	240820		.000	
1.525	SP	4499709	.622	120552		.000	
2.812	SP	1933516	.563	57246		.000	
3.459	SP	1350067	.548	41052		.000	
3.955	IR	5327453	.258	344450	IR	52.987	CHLORITE
5.605	SP	1293483	1.187	18156		.000	
8.617	SP	1381065	1.314	17511		.000	

TOTAL HEIGHT= 39787
MUL FACTOR=1.2000E+00

001508

* RUN # 9548 APR 20, 1999 14:40:55
 START



STOP

Closing signal file M:SIGNAL .BNC

RUN# 9548 APR 20, 1999 14:40:55

SAMPLE NAME: 131L
 METHOD NAME: CHLORITE.MET
 G/IC-94 733:31A

IDENTIFIER: TO*18.32 ppm
 SIGNAL FILE: SIGNAL.BNC

CHLORITE

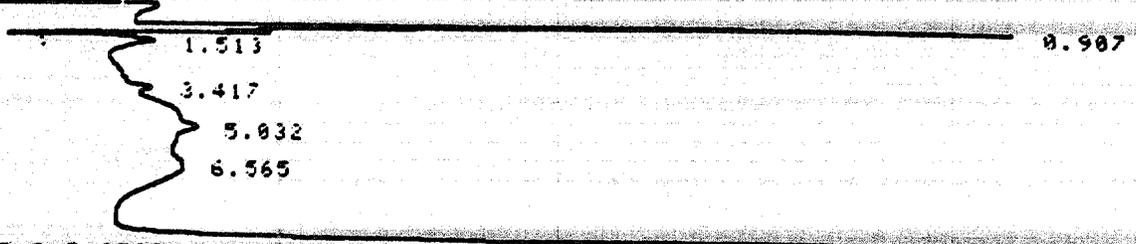
ESTD-HEIGHT

RT	SE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
0.215	SP	2581302	1.466	29354		.000	
1.039	PP	2776645	.197	234647		.000	
1.529	PP	5180640	.714	120925		.000	
2.370	PP	1683200	.373	75174		.000	
2.685		1517676	.397	53678		.000	
3.451		990519	.423	39029		.000	
3.909	B	2649240	.282	156668	1R	24.100	CHLORITE
5.594	PP	535732	.565	9257		.000	
6.560	PP	321976	.434	3532		.000	
7.188		395499	.535	9206		.000	
7.936		420919	.714	9827		.000	
8.787	PP	319759	.375	5777		.000	

TOTAL HEIGHT= 186072
 MUL FACTOR=1.0000E+00

001509

* RUN # 9649 APR 20, 1999 14:51:27
START



TIMETABLE STOP

Closing signal file M:SIGNAL.BNC

RUN# 9649 APR 20, 1999 14:51:27

SAMPLE NAME: SOIL
METHOD NAME: M=CHLORITE.MET
G/IC-PAR: 132101A

*Sample E - blank
1 day*

IDENTIFIER : *ex e blank / 1 day*
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

NO CALIB PEAKS FOUND
AREA%

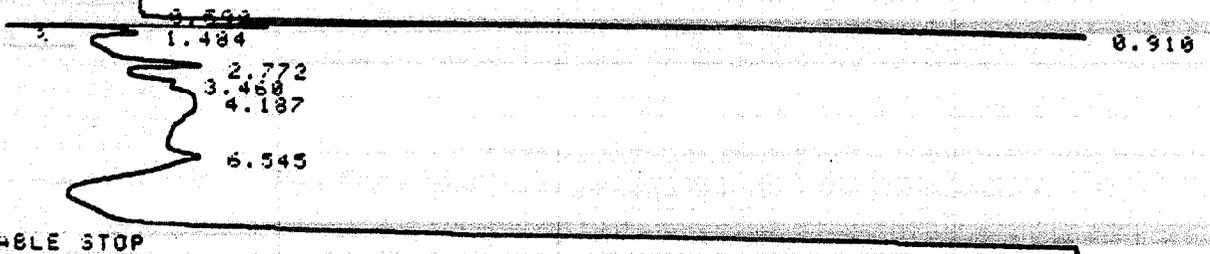
RT	AREA	TYPE	WIDTH	AREA%
0.307	6660624	<SBB	.138	10.83753
1.513	4925066	<BV	.645	3.01359
3.417	9846131	VV	1.303	16.02068
5.032	19534880	VV	1.965	31.78480
6.565	20492960	VV	2.313	33.34419

TOTAL AREA=6.1459E+07
MUL FACTOR=1.0000E+00

001510

*ID *

* RUN # 3650 APR 20. 1999 15:04:40
START



Closing signal file M:SIGNAL .BNC

RUN# 3650 APR 20. 1999 15:04:40

SAMPLE NAME: SOIL
METHOD NAME: M*CHLORITE.MET
G/IC-PUR/T82101H

Sample E
1 day

IDENTIFIER : * e/1 day
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

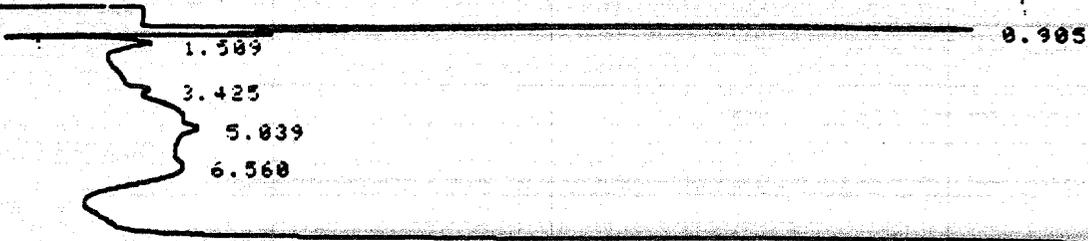
NO CALIB PEAKS FOUND
AREAS:

RT	AREA	TYPE	WIDTH	AREA%
0.590	2137	PH	.127	.00345
0.910	6677973	SHB	.123	14.01954
1.484	1368273	BV	.431	4.79534
2.772	7313155	UV	.777	12.51628
3.450	4535565	UV	.516	7.42428
4.187	21475560	UV	2.159	14.69605
6.545	16145480	UV	1.575	19.24507

TOTAL AREA=6.1199E+07
TOTAL FACTOR=1.0000E+00

001511

* RUN # 3651 APR 20, 1999 15:18:04
START



TIMEABLE STOP

Closing : : : : file M:SIGNAL .BNC

RUN# 3651 APR 20, 1999 15:18:04

SAMPLE NAME: SOIL
METHOD NAME: CHLORITE.MET
G/IC-P47 11:31A

Sample E - blank
4 days

IDENTIFIER: e blank / 4 day
SIGNAL FILE: SIGNAL.BNC

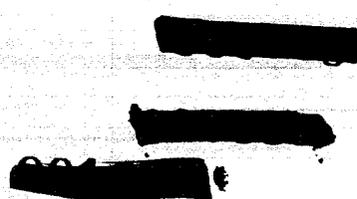
CHLORITE

NO CALIB PEAKS FOUND
AREAS

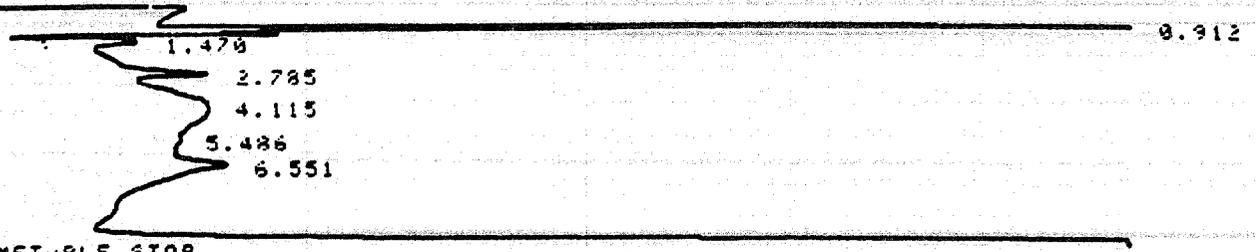
RT	AREA	TYPE	WIDTH	AREA%
0.905	4344416	SBB	.139	11.00010
1.589	4684432	BV	.634	8.46874
3.425	1555214	WV	1.308	17.26579
5.039	13117792	WV	2.015	35.08877
6.560	1151136	WV	1.761	28.17661

TOTAL AREA=5.7676E+07
MUL FACTOR=1.0000E+00

001512



RUN # 9652 APR 20, 1999 15:29:56
START



Closing signal file M:SIGNAL .BNC

RUN# 9652 APR 20, 1999 15:29:56

SAMPLE NAME: SOIL
METHOD NAME: M=CHLORITE.NET
G/IC-PAK/T02101H

Sample E
4 days

IDENTIFIER : * e/4day
SIGNAL FILE: M:SIGNAL.BNC

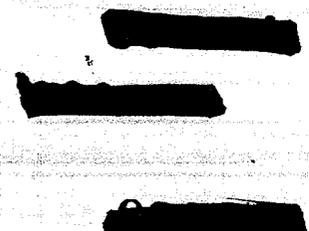
CHLORITE

ESTO-HEIGHT

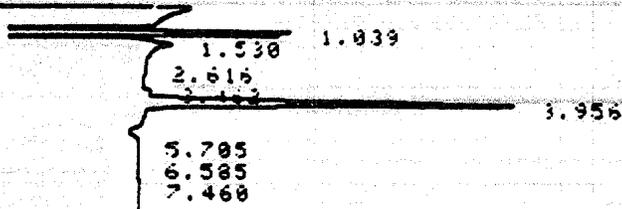
RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
0.912	KSBB	8616378	.117	1226621		.000	
1.470	BV	2643758	.398	110688		.000	
2.785		8197139	.799	171370		.000	
4.115		21516464	2.089	171624	1R	26.401	CHLORITE
5.486		4804640	.550	145494		.000	
6.551		23079376	2.047	187955		.000	

TOTAL HEIGHT=2013452
MUL FACTOR=1.0000E+00

001513



* RUN # 3653 APR 20, 1999 15:41:47
START



TIME=5.15 STOP

Closing signal. File N:SIGNAL .BNC

RUN# 3653 APR 20, 1999 15:41:47

SAMPLE NAME: SOIL
METHOD NAME: CHLORITE.MET
G/IC-PLK 12:31W

IDENTIFIER = Std 45.8 ppm
SIGNAL FILE: SIGNAL.BNC

CHLORITE

ESTD-HEIGHT

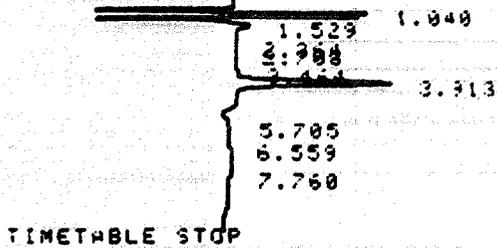
RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
1.039	SP	2777941	.186	249205		.000	
1.530	SP	7339485	.326	132137		.000	
2.616	"	1568708	.395	86151		.000	
3.463	"	1672862	.738	42275		.000	
3.956	E	9358682	.260	344083	IR	52.931	CHLORITE
5.705	SP	398231	.968	15324		.000	
6.585	"	518257	.441	19294		.000	
7.460	"	1589558	2.256	26367		.000	

TOTAL HEIGHT= 34836

MUL FACTOR=1.000E+00

001514

K RUN # 3654 APR 20, 1999 15:53:39
START



Closing signal file M:SIGNAL .BNC

RUN# 3654 APR 20, 1999 15:53:39

SAMPLE NAME: SOIL
METHOD NAME: M*CHLORITE.MET
G/IC-PAK/T32101A

IDENTIFIER : *Std 18.32 ppm
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

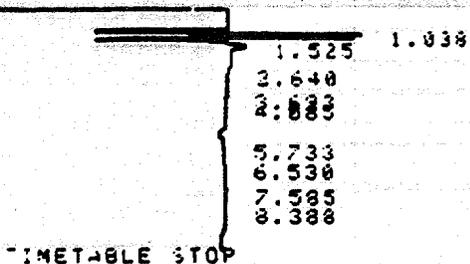
ESTD-HEIGHT

RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
1.040	BP	2589045	.184	234478		.000	
1.529	PM	4133608	.567	121443		.000	
2.364	VM	1914936	.633	76731		.000	
3.738	VM	1123768	.293	63951		.000	
3.464	VM	1295744	.925	41379		.000	
3.913	VB	1761406	.289	159003	IR	24.460	CHLORITE
5.705	VM	536406	.978	9138		.000	
6.559	VM	267435	.436	7930		.000	
7.760	VM	517669	.847	9108		.000	

TOTAL HEIGHT= 723161
MUL FACTOR=1.0000E-00

001515

* RUN # 9655 APR 20, 1999 16:05:31
START



Closing signal file M:SIGNAL .BNC

RUN# 9655 APR 20, 1999 16:05:31

SAMPLE NAME: SOIL
METHOD NAME: M*CHLORITE.MET
G/IC-PAK/T02101A

Sample C - Blank
1 day

IDENTIFIER : * c blank / 1 day
SIGNAL FILE: M:SIGNAL.BNC

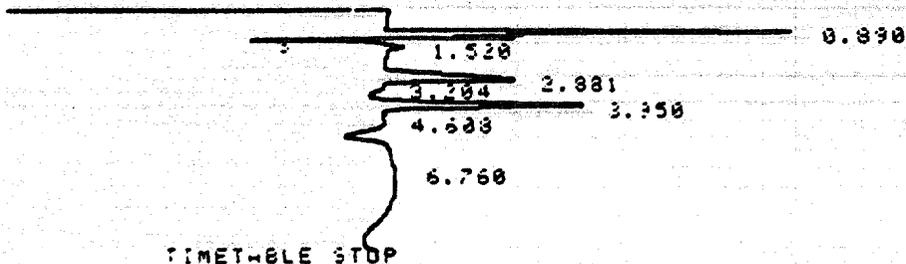
CHLORITE

ESTD-HEIGHT

RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
1.038	SP	2591658	.184	134321		.000	
1.525	SP	2894634	.526	91654		.000	
2.640	SP	30691	.265	1930		.000	
3.640	SP	47604	.207	3837		.000	
4.085	P	403901	1.278	5268	IR	.518	CHLORITE
5.733	SP	336941	.843	6662		.000	
6.530	SP	260030	.571	7591		.000	
7.535	SP	358096	.803	7431		.000	
8.388	SP	526366	1.174	7475		.000	

TOTAL HEIGHT= 198169
MUL FACTOR=1.0000E+00

* RUN # 9656 APR 20. 1999 16:17:23
START



Closing signal file M:SIGNAL .BNC

RUN# 9656 APR 20. 1999 16:17:23

SAMPLE NAME: OIL
METHOD NAME: CHLORITE.MET
G/C-PLX 792.014

*Sample C
1 day*

IDENTIFIER: *C/1day*
SIGNAL FILE: SIGNAL.BNC

CHLORITE

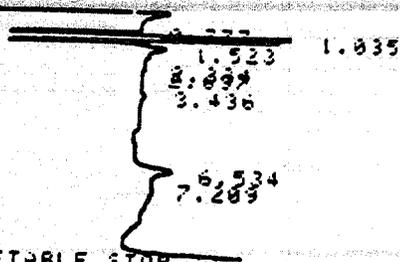
ESTD-HEIGHT

RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
0.890	0.000	4472346	.190	391846		.000	
1.520	5B	2326182	.515	91468		.000	
2.881	37	3313960	.322	119680		.000	
3.204		144935	.281	8586		.000	
3.950		1025840	.260	93831	1R	29.817	CHLORITE
4.603	2	1037785	.696	24866		.000	
6.760	20	3383574	1.566	36016		.000	

TOTAL HEIGHT= :66293
MUL FACTOR=1.0000E+00

001517

* RUN # 9657 APR 20, 1999 16:29:16
START



Closing signal file M:SIGNAL .BNC

RUN# 9657 APR 20, 1999 16:29:16

Sample A - Blank
1 day

SAMPLE NAME: SOIL
METHOD NAME: M*CHLORITE.MET
GC/IC-PAK/P82101H

IDENTIFIER : * a blank / 1 day
SIGNAL FILE: M:SIGNAL.BNC

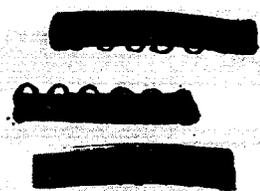
CHLORITE

NO CALIB PEAKS FOUND
AREA%

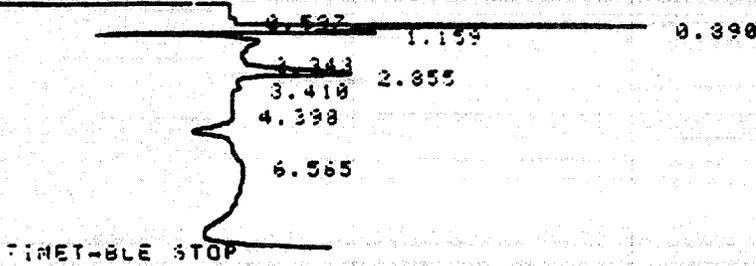
RT	AREA	TYPE	WIDTH	AREA%
1.035	684490	BP	.129	2.25945
1.523	3231541	PP	.218	10.66705
2.334	6482461	PV	.266	23.04854
3.436	1355758	VV	.203	4.14513
6.234	3318678	VV	.560	10.95469
7.234	4809517	VV	.864	15.87582
7.334	6470109	VV	1.411	21.35730
7.334	3542048	VV	1.121	11.39282

TOTAL AREA=3.0265E+07
MUL FACTOR=1.0000E+00

001518



* RUN # 9658 APR 20, 1999 16:41:08
START



Closing signal file N:SIGNAL .BNC

RUN# 9658 APR 20, 1999 16:41:08

Sample A-
1 day

SAMPLE NAME: OIL
METHOD NAME: CHLORITE.MET
G/IC-PLA 11:11A

IDENTIFIED: a/1 day
SIGNAL FILE: SIGNAL.BNC

CHLORITE

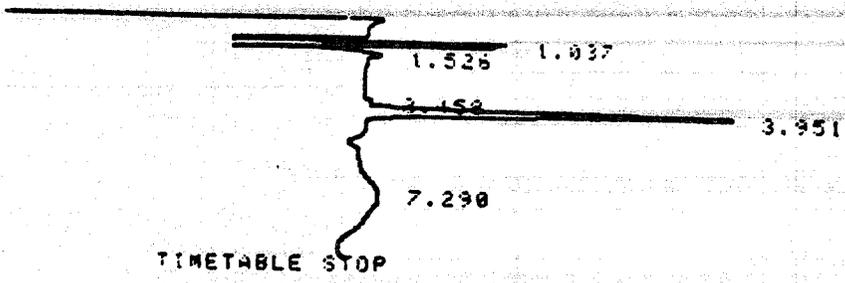
NO CALIB PEAKS FOUND
AREA:

RT	AREA	TYPE	WIDTH	AREA%
0.597	44188	BH	.107	.29141
0.599	1882342	ISHB	.175	25.60307
1.343	73107	BV	.171	.51510
1.355	1048990	VV	.321	13.51253
3.410	593455	VV	.553	3.21369
4.398	113482	VP	1.066	2.45346
6.565	7093011	PP	2.350	45.71069

TOTAL AREA=1.5164E+07
MUL FACTOR=1.3000E+00

001519

* RUN # 9659 APR 20, 1999 16:53:01
START



Closing signal file M:SIGNAL .BNC

RUN# 9659 APR 20, 1999 16:53:01

SAMPLE NAME: SOIL
METHOD NAME: M*CHLORITE.MET
G/IC-PAK/T32!01A

IDENTIFIER : * Std 45.8 ppm
SIGNAL FILE: M:SIGNAL.BNC

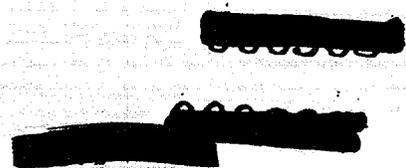
CHLORITE

ESTD-HEIGHT

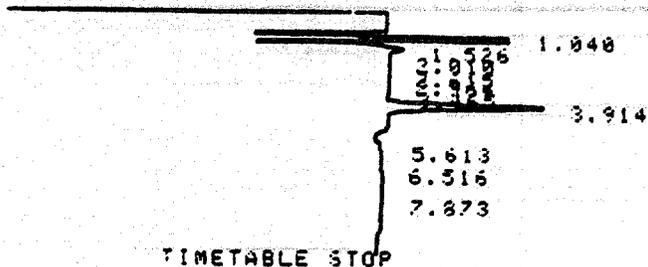
RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
1.037	BP	2630069	.184	238752		.000	
1.526	BP	2660493	.505	37808		.000	
3.458	BP	37403	.187	7808		.000	
3.951	IR	4625568	.235	327700	IR	50.410	CHLORITE
7.290	BP	4820773	2.438	32957		.000	

TOTAL HEIGHT= 695025
MUL FACTOR=1.0000E+00

001520



* RUN # 9660 APR 20. 1999 17:04:53
 START



Closing signal file M:SIGNAL .BNC

RUN# 9660 APR 20. 1999 17:04:53

SAMPLE NAME: SOIL
 METHOD NAME: M*CHLORITE.MET
 G/IC-PAK/T82101A

IDENTIFIER : * Std 18.32 ppm
 SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

ESTD-HEIGHT

RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
1.040	BP	2457250	.184	222678		.000	
1.526	PV	3627312	.509	118681		.000	
2.010	VV	1761714	.340	36325		.000	
3.615	VV	2408386	.626	64145		.000	
2.364	VV	1033072	.336	51209		.000	
3.465	VV	1138836	.532	35670		.000	
3.914	VB	1515414	.371	154556	IR	23.775	CHLORITE
5.613	PV	608681	.936	10286		.000	
6.516	VV	163533	.348	7841		.000	
7.673	VV	1484767	1.306	10729		.000	

TOTAL HEIGHT= 792120
 MUL FACTOR=1.0000E+00

001521

* RUN # 4661 APR 20, 1999 17:16:46
START

1.038
1.525
2.166
3.795
4.236
5.612
6.556
7.455
7.855
8.448

TIMETABLE STOP

Closing signal file M:SIGNAL .BNC

RUN# 4661 APR 20, 1999 17:16:46

Sample C-Blank
4 days

SAMPLE NAME: OIL
METHOD NAME: 1-CHLORITE.MET
GC/IC-PAK T101A

IDENTIFIER = C blank / 4 day
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

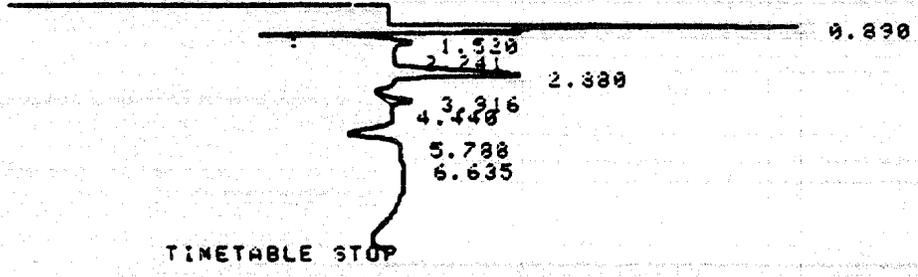
ESTD-HEIGHT

RT	PE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
1.038	SP	2539642	.184	230298		.000	
1.525	SV	4052032	.613	110212		.000	
2.166		1403428	.472	49564		.000	
3.795	SV	127107	.631	3357	IR	.516	CHLORITE
4.236	P	350947	.370	4805		.000	
5.612	SV	323592	.836	6455		.000	
6.556		136689	.553	5630		.000	
7.455	V	170656	.681	4174		.000	
7.855	V	150187	.642	3900		.000	
8.448	V	128201	.732	2859		.000	

TOTAL HEIGHT= 431354
MUL FACTOR=1.0000E+00

001522

* RUN # 9662 APR 20, 1999 17:28:39
 START



Closing signal file M:SIGNAL .BNC

RUN# 9662 APR 20, 1999 17:28:39

Sample C
 4 days

SAMPLE NAME: SOIL
 METHOD NAME: M=CHLORITE.MET
 G/IC-PAN-T82101A

IDENTIFIER : * C/4day
 SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

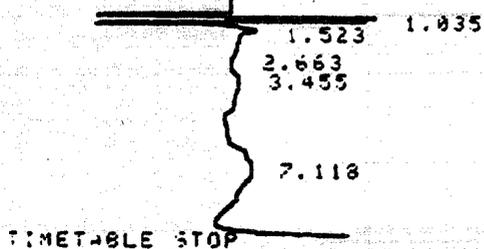
ESTD-HEIGHT

RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
0.890	GBB	4353434	.189	382892		.000	
1.520	GV	5392195	.675	133176		.000	
2.241	GV	2467197	.344	119491		.000	
2.880	GV	10173688	.739	229500		.000	
3.916	GV	4785280	.596	133873	IR	20.594	CHLORITE
4.440	GV	5679955	.965	115325		.000	
5.788	GV	5211498	.692	135535		.000	
6.635	GV	25264576	3.266	138940		.000	

TOTAL HEIGHT=1368732
 MUL FACTOR=1.0000E+00

001523

RUN # 4664 APR 20, 1999 17:52:26
START



Closing signal file M:SIGNAL .BNC

RUN# 4664 APR 20, 1999 17:52:26

Sample A
4 days

SAMPLE NAME: FOIL
METHOD NAME: CHLORITE.MET
Q/IC-PK 1:1.91M

IDENTIFIED: = 2 blank / 4 day
SIGNAL FILE: 1:SIGNAL.BNC

CHLORITE

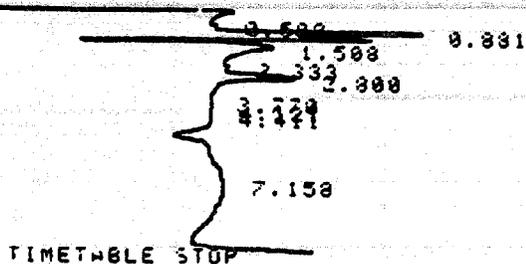
NO CALIB PEAKS FOUND
AREA%

RT	AREA	TYPE	WIDTH	AREA%
1.035	1837605	K BV	.194	4.54251
1.523	1403126	K VV	1.080	14.46047
2.663	1153253	VV	.397	4.57556
3.455	15778152	VV	2.097	25.25809
7.118	11506608	VV	3.882	51.16336

TOTAL AREA=6.1463E+07
MUL FACTOR=1.0000E+00

001524

* RUN # 9663 APR 20, 1999 17:40:33
 START



Closing signal file M:SIGNAL .BNC

RUN# 9663 APR 20, 1999 17:40:33

Sample A
 4 days

SAMPLE NAME: SOIL
 METHOD NAME: M*CHLORITE.MET
 G/IC-PWR-713:91W

IDENTIFIER : = a / 4 day
 SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

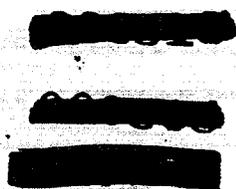
ESTD-HEIGHT

RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
.598	BV	188201	.145	21660		.000	
.931	P	4761872	.322	346782		.000	
1.508	PV	7342195	.733	167986		.000	
2.333		3349310	.328	119343		.000	
3.808		7567283	.734	171986		.000	
3.778		1327788	.357	86021	IR	13.233	CHLORITE
4.121		1752500	.356	32130		.000	
4.411		4165384	.876	79241		.000	
7.158	P	11475768	3.256	58740		.000	

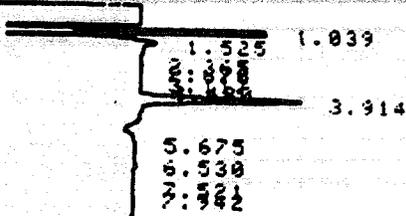
TOTAL HEIGHT=1832749

MUL FACTOR=1.0000E+00

001525



* RUN # 9665 APR 20, 1999 18:04:19
 START



TIMETABLE STOP

Closing signal file M:SIGNAL .BNC

RUN# 9665 APR 20, 1999 18:04:19

SAMPLE NAME: SOIL
 METHOD NAME: M*CHLORITE.MET
 G/IC-PAK/T02101A

IDENTIFIER : * Std 18.32 ppm
 SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

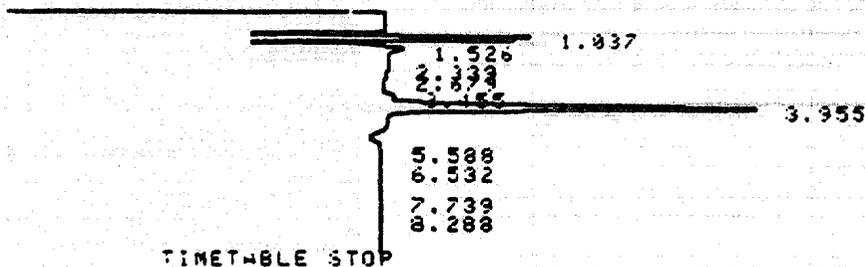
ESTD-HEIGHT

RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
1.039	BP	2500038	.184	225974		.000	
1.525	PB	2606381	.499	87096		.000	
2.365	SP	5333	.222	400		.000	
2.678	SV	6839	.211	539		.000	
3.117	TV	18324	.349	674		.000	
3.480	UV	36190	.196	3079		.000	
3.914	VB	1894431	.325	140347	IR	21.590	CHLORITE
5.675	PV	604771	.906	11120		.000	
6.530	WV	357228	.527	11288		.000	
7.521	XV	528500	.722	12203		.000	
7.942	YP	1068980	1.381	12903		.000	

TOTAL HEIGHT= 795923
 MUL FACTOR=1.0000E+00

001526

K RUN # 9566 APR 20, 1999 18:16:13
 START



Closing signal file M:SIGNAL .BNC

RUN# 9566 APR 20, 1999 18:16:13

SAMPLE NAME: :JIL
 METHOD NAME: M:CHLORITE.MET
 G/IC-PUR/731:314

IDENTIFIER : = Std 45.8 ppm
 SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

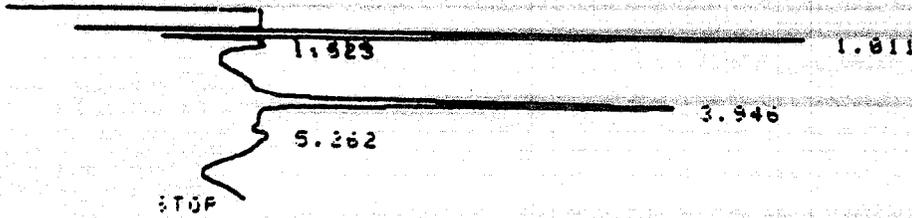
ESTD-HEIGHT

RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
1.037	SP	2662054	.183	242303		.000	
1.526	SP	4871197	.678	119736		.000	
2.139	SP	1900228	.422	75010		.000	
2.679	SP	1481514	.396	52367		.000	
3.455	SP	1891873	.745	42298		.000	
3.455	B	5367002	.260	344642	1R	53.017	CHLORITE
5.588	SP	576265	.911	12370		.000	
6.532	SP	352384	.476	12354		.000	
7.739	SP	329519	1.068	12944		.000	
8.288	SP	1259923	1.600	13121		.000	

TOTAL HEIGHT= 937145
 MUL FACTOR=1.0000E+00

001527

RUN # 9513 APR 15, 1999 13:21:23
START



Closing signal file M:SIGNAL .BNC

RUN# 9513 APR 15, 1999 13:21:23

SAMPLE NAME: SOIL
METHOD NAME: 4-CHLORITE.MET
G/IC-AMT921014

Std
45.8 ppm

IDENTIFIER: STD 45.8/H₂O
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

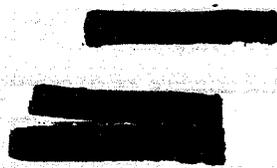
ESTD-LABEL

RT	SE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
1.011	SP	4565482	.203	375326		.000	
1.525	SP	1305803	.172	126865		.000	
1.525	SP	3793278	.531	118977		.000	
3.946	SP	8713062	.724	200611	1R	122.402	CHLORITE
5.262	SP	592804	1.818	11435		.000	

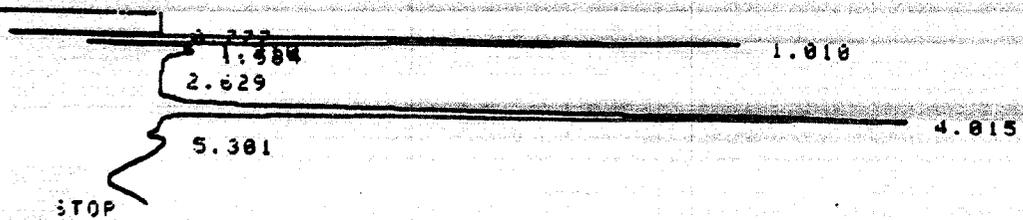
TOTAL AREA=1.3670E+07

MUL FACTOR=1.3000E+00

001528



* RUN # 9515 WPR 15. 1999 .3:39:59
START



Closing signal file: MSIGNAL .BNC

RUN# 9515 WPR 15. 1999 13:39:59

SAMPLE NAME: SOIL

METHOD NAME: CHLORITE.MET

Std 91.6 ppm

GC-PORT32101M

IDENTIFIER : STON 91.6 H₂O

SIGNAL FILE: MSIGNAL.BNC

CHLORITE

ESTD-WREN

RT	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
1.010	1697939	.379	74664		.000	
1.010	3300494	.189	334304		.000	
1.534	347916	.164	86201		.000	
1.534	3958328	.805	81987		.000	
2.629	1507940	.641	41800		.000	
4.015	5258115	.310	336698	IR	87.915	CHLORITE
5.301	653005	.977	11139		.000	

TOTAL AREA=1.3824E+07

MUL FACTOR=1.3600E+00

001529

*TD STD 18.32 PPM/H2O

* RUN # 4513 APR 15, 1999 14:13:32
START



Closing signal file MISIGNAL.BNC

RUN# 4513 APR 15, 1999 14:13:32

SAMPLE NAME: SOIL
METHOD NAME: M-CHLORITE.MET
G/IC-PMKT82101W

IDENTIFIER : STD 18.32 PPM
SIGNAL FILE: MISIGNAL.BNC

CHLORITE

ESTD-WREH

RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
0.300	SV	14699968	.317	772052		.000	
0.456	SV	10625984	.305	579771		.000	
3.931	VB	2568184	.436	98160	IR	36.078	CHLORITE
5.810	SV	176733	.831	3546		.000	
6.450	VB	17728	.431	685		.000	

TOTAL WREH=2.8089E+07

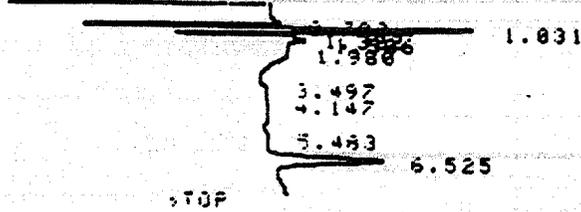
MUL FACTOR=1.0000E+00

001530

* (D BLANK W/8H

* RUN # 4512 APR 15, 1999 14:22:53

START



Closing signal: sig MISIGNAL .BNC

RUN# 4512 APR 15, 1999 14:22:53

Sample A - Blank
8 hours

SAMPLE NAME: SOIL

METHOD NAME: CHLORITE.NET

GC/IC-PORT9313.M

IDENTIFIED: BLANK W/8H

SIGNAL FILE: MISIGNAL.BNC

CHLORITE

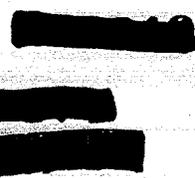
ESTD-AREA

RT	W	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
1.031	0.217	958792	0.217	73683		.000	
1.322	0.219	2325816	0.219	176701		.000	
1.506	0.149	855658	0.149	95626		.000	
1.530	0.294	1711280	0.294	97176		.000	
1.530	1.170	5876301	1.170	83693		.000	
3.497	0.627	2893241	0.627	55660		.000	
4.147	0.558	1685434	0.558	47978	IR	22.553	CHLORITE
5.483	0.776	1464196	0.776	31467		.000	
6.525	0.534	2171635	0.534	67836		.000	

TOTAL AREA=1.9062E+07

MUL FACTOR=1.0000E+00

001531



#10 #M/SH

RUN # 9520 APR 15, 1999 14:32:31
START



Closing signal file MISIGNAL .BNC

RUN# 9520 APR 15, 1999 14:32:31

SAMPLE NAME: SOIL
METHOD NAME: M=CHLORITE.MET
G/IC=PKT92101M

Sample A
8 hours

IDENTIFIER: #M/SH
SIGNAL FILE: MISIGNAL.BNC

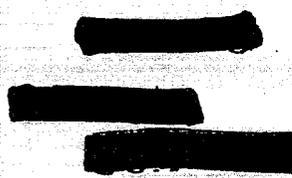
CHLORITE

NO CALIB PEAKS FOUND
AREA%

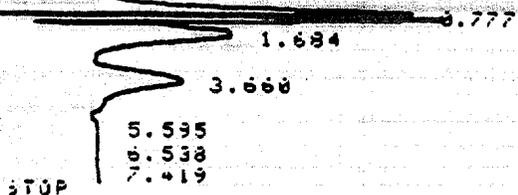
RT	AREA	TYPE	WIDTH	AREA%
.870	31088384	BP	.442	32.42963
1.277	567151	PB	.195	2.21686
2.310	19175	BV	.201	.07495
2.901	1003268	VP	.278	3.92154
3.454	75782	PV	.331	.29621
4.445	1145651	VP	1.209	4.47809
6.573	1534095	I PP	1.397	6.58275

TOTAL AREA=2.5584E+07
MUL FACTOR=1.0000E+00

001532



* RUN # 4522 APR 15, 1999 14:51:47
STRT



Closing signal file M:SIGNAL .BNC

RUN# 4522 APR 15, 1999 14:51:47

SAMPLE NAME: SOIL
METHOD NAME: M:CHLORITE.MET
G/IC-PK12101A

Sample C-Blank
8 hours

IDENTIFIER : #C/BLANK/8H
SIGNAL FILE: M:SIGNAL.BNC

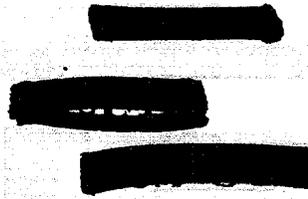
CHLORITE

NO CHLOR PEAKS FOUND
AREA:

RT	AREA	TYPE	WIDTH	AREA%
0.777	4043946	BP	.330	58.68893
1.684	122848	BB	.507	3.23415
3.668	2149958	BP	.908	31.18738
5.535	125527	PV	.886	3.27303
6.538	104019	VV	.457	1.50961
7.419	145177	VV	.655	2.10692

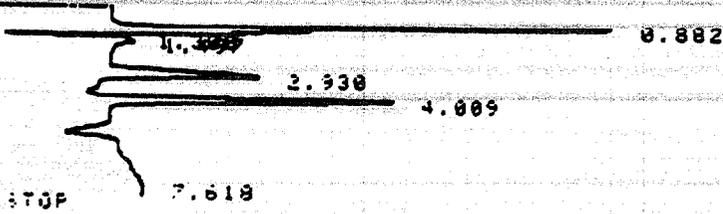
TOTAL AREA=66598474
MUL FACTOR=1.0000E+00

001533



• IO 00/34

* RUN # 9523 APR 15. 1999 15:01:11
START



Closing signal file MSIGNAL .BNC

RUN# 9523 APR 15. 1999 15:01:11

SAMPLE NAME: SOIL
METHOD NAME: CHLORITE.MET
G/IC-FACT92101

Sample C
8 hours

IDENTIFIER: 9523
SIGNAL FILE: MSIGNAL.BNC

CHLORITE

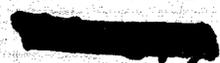
ESTD-AREA

RT	SE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
0.882	SE	3976781	.253	262483		.000	
1.100	SE	506330	.135	62707		.000	
1.497	SE	1584141	.475	55613		.000	
2.930	SE	1332621	.319	69577		.000	
4.009	IR	2854588	.251	136245	IR	28.863	CHLORITE
7.618	PH	3963670	2.637	18728		.000	

TOTAL AREA=1.1418E+07

MUL FACTOR=1.0000E+00

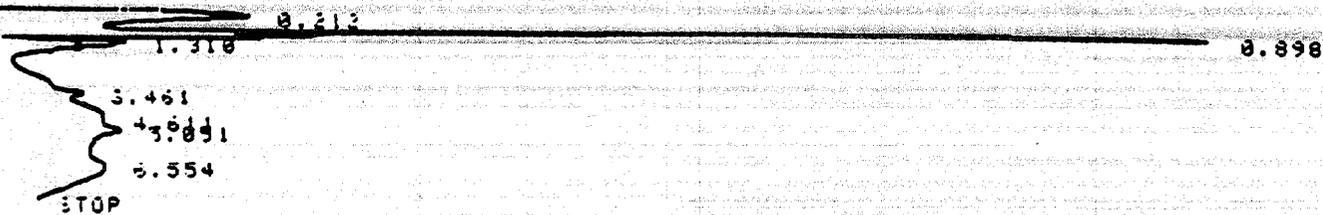
001534



* ID #E BLANK/8H

* RUN # 3524 APR 15, 1999 15:11:25

START



Closing signal file M:SIGNAL .BNC

RUN# 3524 APR 15, 1999 15:11:25

SAMPLE NAME: SOIL

METHOD NAME: M*CHLORITE.NET

S/IC-PARTS2101A

Sample E - Blank
8 hours

IDENTIFIER : #E BLANK/8H

SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

NO CHLIS PEAKS FOUND

AREA:

RT	AREA	TYPE	WIDTH	AREA%
.213	544448	BP	.268	2.36898
.399	4398237	SPB	.148	19.18196
1.318	1938355	BY	.482	8.39899
3.461	2366528	VV	1.031	12.98739
4.611	3458862	VV	.988	15.81472
5.554	3778986	VV	.968	16.48724
8.898	5929858	I VH	1.684	25.58881

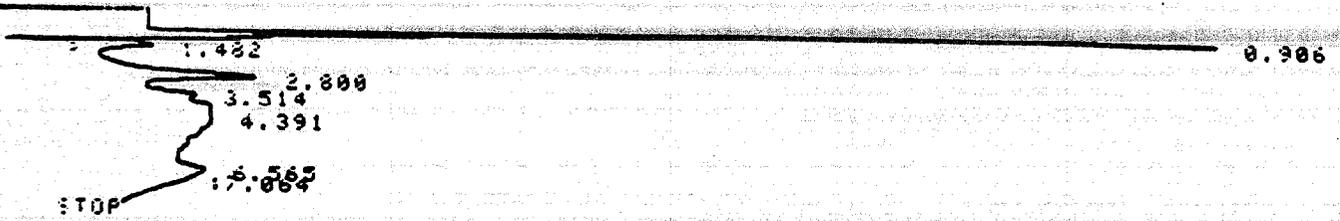
TOTAL AREA=2.2983E+07

MUL FACTOR=1.0000E+00

001535

*ID #E 3H

* RUN # 2530 APR 15, 1999 16:08:45
START



Closing signal file MISIGNAL .BNC

RUN# 2530 APR 15, 1999 16:08:45

SAMPLE NAME: SOIL
METHOD NAME: *CHLORITE.MET
G/IC-#48733:31-

Sample E
8 hours

IDENTIFIED: #E/3H
SIGNAL FILE: *SIGNAL.BNC

CHLORITE

NO CALIB PEAKS FOUND
AREAS

RT	AREA	TYPE	WIDTH	AREA%
0.906	5801328	SPB	.127	13.73023
1.482	1329157	BV	.479	5.53020
2.800	1321360	VV	.840	15.01548
3.514	1027440	VV	.508	7.19125
4.391	13993528	VV	2.178	33.15648
6.565	10882136	I VH	1.708	25.32637

TOTAL AREA=4.1099E+07
MUL FACTOR=1.0000E+00

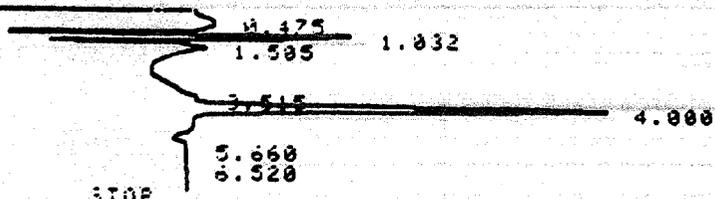
001536

*ID STD 45.8 PPM

* ZERO 10

* RUN # 9527 APR 15, 1999 15:43:36

START



Closing signal file MISIGNAL .BNC

RUN# 9527 APR 15, 1999 15:43:36

SAMPLE NAME: SOIL

METHOD NAME: CHLORITE.MET

GC/TC-PART32101A

IDENTIFIER: STD 45.8 PPM

SIGNAL FILE: MISIGNAL.BNC

CHLORITE

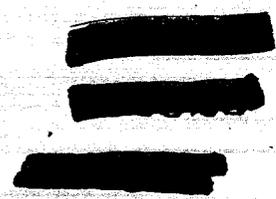
ESTD-AREA

RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
0.475	SP	3827230	.705	90465		.000	
1.032	SP	3183782	.240	220836		.000	
1.505	SP	7244797	.877	137738		.000	
3.515	SP	4575338	1.625	46915		.000	
4.000	IR	3644672	.295	206257	1R	51.201	CHLORITE
5.660	SP	399206	.916	7266		.000	
6.520	SP	232056	.522	7416		.000	

TOTAL AREA=3.3107E+07

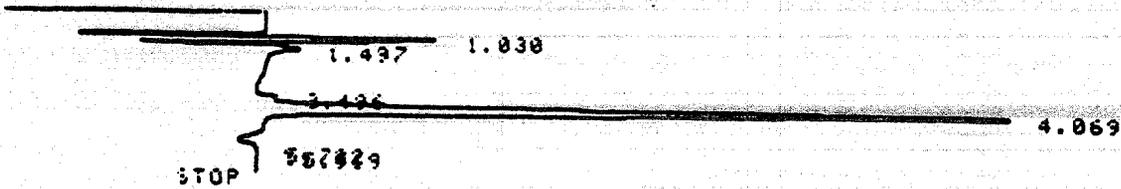
MUL FACTOR=1.0000E+00

001537



*ID STD 91.6 PPM/H2O

* RUN # 9528 APR 15, 1999 15:52:42
START



Closing signal file M:SIGNAL .BNC

RUN# 9528 APR 15, 1999 15:52:42

SAMPLE NAME: SOIL
METHOD NAME: M*CHLORITE.MET
G/IC-PAKTS2101A

IDENTIFIER : STD 91.6 PPM
SIGNAL FILE: M:SIGNAL.BNC

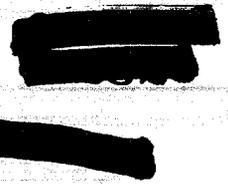
CHLORITE

ESTD-AREA

RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
1.030	PV	2109800	.218	167489		.000	
1.497	VB	2377390	.563	78340		.000	
3.436	PV	107886	.203	3863		.000	
4.069	VB	5150154	.261	328901	IR	72.350	CHLORITE
5.722	SV	552537	.346	3740		.000	

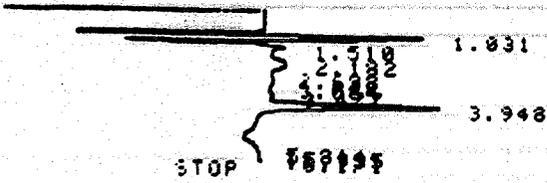
TOTAL AREA=1.3298E+07
MUL FACTOR=1.0000E+00

001538



W10 STD 18.32 PPM/H2O

* RUN # 3529 APR 15, 1999 16:00:59
START



Closing signal file M:SIGNAL .BNC

RUN# 3529 APR 15, 1999 16:00:59

SAMPLE NAME: IIL

METHOD NAME: CHLORITE.MET

G/IC-PART2131-

IDENTIFIER : STD 18.32 PP

SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

ESTD-AREA

RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
1.031	AV	2411341	.220	182869		.000	
1.510	AV	3301162	.514	106975		.000	
2.182	AV	3912214	.754	86426		.000	
2.638	AV	841744	.224	62584		.000	
3.084	AV	1565116	.513	50817		.000	
3.477	AV	772375	.327	39424		.000	
3.948	18	1761250	.306	95832	1R	24.742	CHLORITE
5.814	I 6H	419447	.850	3221		.000	

TOTAL AREA=1.4935E+07

MUL FACTOR=1.0000E+00

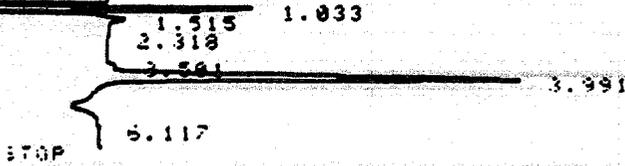
001539

[REDACTED]

[REDACTED]

[REDACTED]

* RUN # 9551 APR 16, 1999 10:29:48
START



Closing signal file M:SIGNAL .BNC

RUN# 9551 APR 16, 1999 10:29:48

Std 45.8 ppm

SAMPLE NAME: JIL

METHOD NAME: CHLORITE.MET

GC/IC-P-RT32:31A

IDENTIFIER: Std 45.8 ppm/H₂O
SIGNAL FILE: SIGNAL.BNC

CHLORITE

ESTD-REF

RET TIME	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
1.033	3087362	.239	215091		.000	
1.515	4801450	.572	139810		.000	
2.318	7048512	1.207	97331		.000	
3.581	1304154	.449	48406		.000	
3.991	3532176	.290	203249	IR	49.620	CHLORITE
6.117	739784	.907	13599		.000	

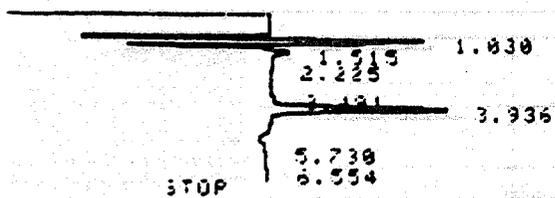
TOTAL AREA=2.3513E+07

MUL FACTOR=1.0000E+00

001540

* RUN # 4552 APR 16, 1999 10:38:06

START



Closing signal file M:SIGNAL .BNC

RUN# 4552 APR 16, 1999 10:38:06

SAMPLE NAME: SOIL

METHOD NAME: *CHLORITE.MET

G/IC-F-RT32131A

IDENTIFIER : = *std* 18.32 ppm.

SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

ESTD--PE--

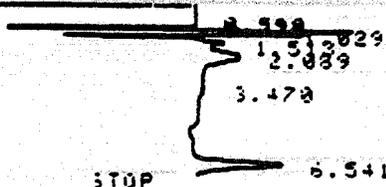
RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
1.030	PM	3098309	.240	214942		.000	
1.515	PM	4429402	.546	135207		.000	
2.115	PM	4231834	.723	97510		.000	
3.491	PM	1816518	.684	44274		.000	
3.936	PM	1903326	.323	98283	IR	26.738	CHLORITE
5.730	PM	263325	.863	5088		.000	
6.554	PM	201000	.592	5661		.000	

TOTAL AREA=1.5344E+07

MUL FACTOR=1.000E+00

001541

* RUN # 9553 APR 16, 1999 10:46:32
START



Closing signal file M:SIGNAL .BNC

RUN# 9553 APR 16, 1999 10:46:32

SAMPLE NAME: SOIL
METHOD NAME: M=CHLORITE.MET
G/IC-PORT82101A

Sample A - Blank
2 days

IDENTIFIER : * A blank / 2 day
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

NO CALIB PEAKS FOUND

AREA:

RT	AREA	TYPE	WIDTH	AREA%
.599	439453	BV	.183	1.02695
.775	707381	VB	.141	1.65306
1.029	2401096	BV	.224	5.61108
1.513	2858814	VV	.390	6.68071
2.089	10069664	VV	1.304	23.53161
3.470	13511680	VV	1.988	31.57519
6.541	12803992	VH	1.450	29.92140

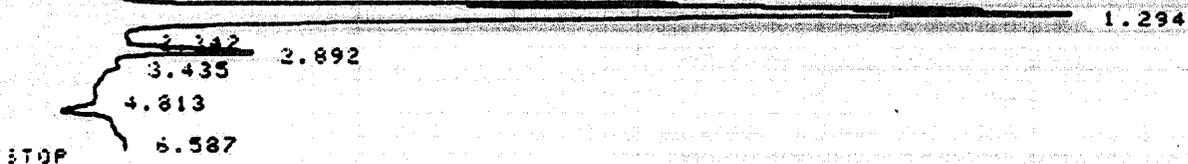
TOTAL AREA=4.2792E+07

MUL FACTOR=1.0000E+00

001542

*IC #4/2 DAY

* RUN # 9554 APR 16, 1999 10:55:42
START



Closing signal file M:SIGNAL .BNC

RUN# 9554 APR 16, 1999 10:55:42

Sample A
2 days

SAMPLE NAME: IDIL
METHOD NAME: **CHLORITE.MET
G/IC-94KT9210:4

IDENTIFIER : #4/2 DAY
SIGNAL FILE: **SIGNAL.BNC

CHLORITE

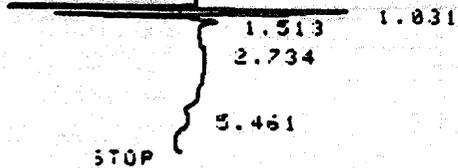
NO CALIB PEAKS FOUND
AREA:

RT	AREA	TYPE	WIDTH	AREA%
1.294	15229144	BV	.599	76.49859
2.342	325625	VV	.301	1.63567
2.892	1668591	VV	.382	8.38162
3.435	734631	VV	.710	3.94134
4.813	339395	VP	.730	3.06110
6.587	1190368	I PH	1.691	6.48174

TOTAL AREA=1.5908E+07
MUL FACTOR=1.0000E+00

001543

* RUN # 9558 APR 16, 1999 11:28:18
START



Closing signal file M:SIGNAL .BNC

RUN# 9558 APR 16, 1999 11:28:18

SAMPLE NAME: SOIL
METHOD NAME: M*CHLORITE.MET
G/IC-PART32101A

Sample C - Blank
2 days

IDENTIFIER : *C Blank / 2 days
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

NO CHLIS PEAKS FOUND

AREAS

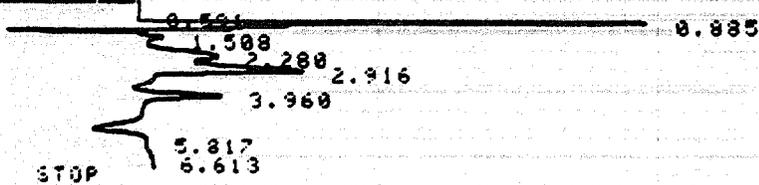
RT	AREA	TYPE	WIDTH	AREA%
1.031	3222666	PV	.243	14.25426
1.513	4930890	VV	.545	21.80993
2.734	12181360	VV	1.751	53.87966
5.461	2273541	VV	.918	10.05615

TOTAL AREA=2.3608E+07

MUL FACTOR=1.0000E+00

001544

* RUN # 9559 APR 16, 1999 11:36:29
START



Closing signal file M:SIGNAL .BNC

RUN# 9559 APR 16, 1999 11:36:29

SAMPLE NAME: SOIL
METHOD NAME: M=CHLORITE.MET
G/IC-PAKT82101H

Sample C
2 days

IDENTIFIER : * C / 2 days
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

ESTO-AREA

RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
.591	BY	724629	.359	33607		.000	
.885	VP	3466928	.208	277467		.000	
1.508	PV	2008759	.430	77828		.000	
2.380	VV	3502166	.692	84320		.000	
2.916	VV	2893422	.457	105603		.000	
3.960	VB	977011	.341	47770	1R	13.725	CHLORITE
5.617	PV	696855	.466	24937		.000	
6.613	I VH	1691614	1.027	27457		.000	

TOTAL AREA=1.5981E+07
MUL FACTOR=1.0000E+00

001545

[REDACTED]

[REDACTED]

*10 #E BLANK/2 DAY

* RUN # 3560 APR 16. 1999 11:53:32
START



Closing signal file M:SIGNAL .BNC

RUN# 3560 APR 16. 1999 11:53:32

Sample E-Blank
2 days

SAMPLE NAME: :JIL
METHOD NAME: ==CHLORITE.MET
G/IC-PARTS:31A

IDENTIFIER: #E BLANK/2 D
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

NO CALIB PEAKS FOUND
AREA:

RT	AREA	TYPE	WIDTH	AREA%
0.988	4752797	SPB	.152	13.80054
1.500	3361702	BV	.651	9.76127
3.451	7636762	VV	1.443	22.17462
4.440	6081437	VV	1.071	17.65946
5.065	1586501	VV	.593	10.41400
6.594	3020019	I VH	1.484	16.19113

TOTAL AREA=3.4439E+07
MUL FACTOR=1.0000E+00

001546

*ID #E/2 DAY

* RUN # 3561 APR 16, 1999 12:02:05
START

9:393

3.488
4.036

STOP

6.555

Closing signal file M:SIGNAL .BNC

RUN# 3561 APR 16, 1999 12:02:05

Sample E
2 days

SAMPLE NAME: SOIL
METHOD NAME: M*CHLORITE.MET
G/IC-PAKT32101A

IDENTIFIER : #E/2 DAY
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

ESTD-AREA

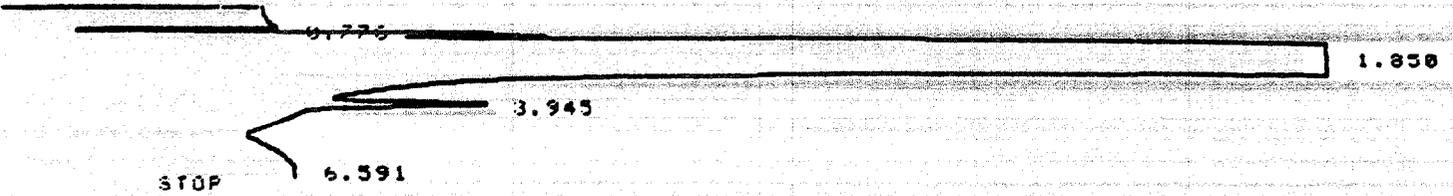
RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
.908	SBM	4988672	.098	845023		.000	
1.552	SHB	352942080	.316	7204547		.000	
3.488	TBY	228281	.277	13711		.000	
4.036	TVB	1056734	1.096	16069	1R	14.345	CHLORITE
6.555	! BH	783705	.398	33514		.000	

TOTAL AREA=3.6000E+08
MUL FACTOR=1.0000E+00

001547

10 STD

* RUN # 3562 APR 16, 1999 12:10:28
START



Closing file M:SIGNAL .BNC

RUN# 3562 APR 16, 1999 12:10:28

Std 18.32 ppm

SAMPLE NAME: SOIL
METHOD NAME: *CHLORITE.MET
GC/IC-PART:1101A

IDENTIFIER : STD# *18.32 ppm*
SIGNAL FILE: 1:SIGNAL.BNC

CHLORITE

ESTD-AREA

RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
0.776	SP	3213718	.409	131095		.000	
1.850	1SPH	406368480	.908	7457722		.000	
3.945	TBB	915206	.209	72833	1R	12.857	CHLORITE
6.591	TBV	449049	1.525	4907		.000	

TOTAL AREA=1.1095E+08
MUL FACTOR=1.0000E+00

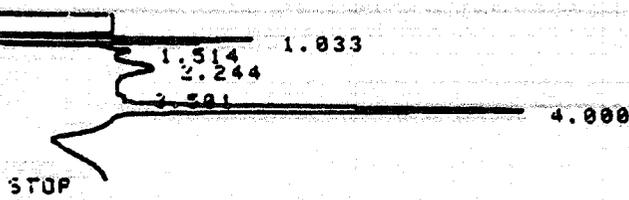
001548

[REDACTED]

[REDACTED]

[REDACTED]

* RUN # 9563 APR 16, 1999 12:18:43
START



Closing signal file M:SIGNAL .BNC

RUN# 9563 APR 16, 1999 12:18:43

SAMPLE NAME: SOIL
METHOD NAME: M*CHLORITE.MET
G/IC-PAKT82101A

Std 45.8 ppm

IDENTIFIER : STD* 45.8 ppm
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

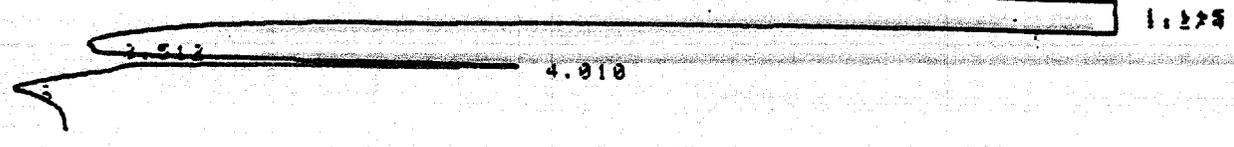
ESTD-AREA

RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
1.033	BV	3086381	.239	214896		.000	
1.514	VV	3851405	.459	139944		.000	
2.244	VV	7400832	1.057	116699		.000	
3.501	VV	1186270	.405	48837		.000	
4.000	VB	3511794	.289	202731	1R	49.334	CHLORITE

TOTAL AREA=1.9037E+07
MUL FACTOR=1.0000E+00

001549

* RUN # 4576 APR 16, 1999 14:11:11
START



STOP

Closing signal file M:SIGNAL .BNC

RUN# 4576 APR 16, 1999 14:11:11

Std 45.8 ppm

SAMPLE NAME: SOIL
METHOD NAME: *CHLORITE.MET
G/IC-FW-32101A

IDENTIFIED : = 45.8 ppm
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

FSTD-REP-

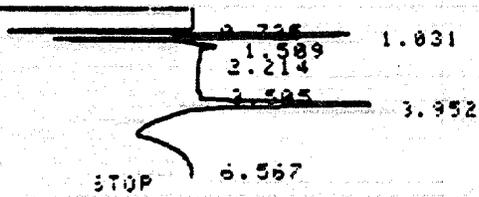
RT	PE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
1.174	164	129374848	.298	7244256		.000	
1.174	148	231773928	.525	7364122		.000	
3.512	784	80923	.203	6634		.000	
4.010	748	3988258	.331	280950	1R	56.828	CHLORITE

TOTAL AREA=3.6522E+08
MUL FACTOR=1.0000E+00

001550



* RUN # 3577 APR 16, 1999 14:19:26
START



Closing signal file M:SIGNAL .BNC

RUN# 3577 APR 16, 1999 14:19:26

SAMPLE NAME: SOIL
METHOD NAME: M=CHLORITE.MET
G/IC-PART82101A

IDENTIFIER : * *Std 18.32 ppm*
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

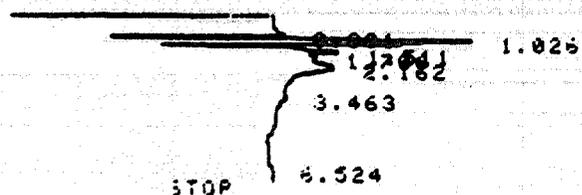
ESTD-LPEA

RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
.726	SP	3388254	.451	125268		.000	
1.031	PV	3158766	.242	217585		.000	
1.509	UV	5022362	.569	147109		.000	
2.214	UV	5082973	.690	122765		.000	
3.595	UV	3217349	.586	91524		.000	
3.952	UV	5914090	.646	152584	1R	33.082	CHLORITE
6.567	UV	1862833	2.881	10772		.000	

TOTAL AREA=2.7646E+07
MUL FACTOR=1.0000E+00

001551

* RUN # 9578 APR 16, 1999 14:27:46
START



Closing signal file M:SIGNAL .BNC

RUN# 9578 APR 16, 1999 14:27:46

Sample A - Blank
8 days

SAMPLE NAME: SOIL
METHOD NAME: 1*CHLORITE.MET
G/IC-9ARTS21014

IDENTIFIED : = A / blank 8 days
SIGNAL FILE: 1:SIGNAL.BNC

CHLORITE

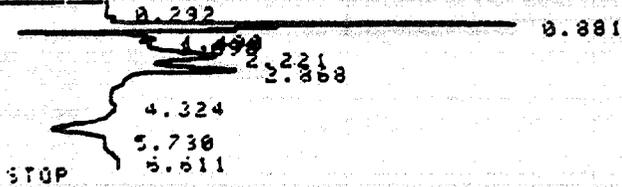
NO CALIB PEAKS FOUND
AREA:

RT	AREA	TYPE	WIDTH	AREA%
1.026	1841711	SP	.398	10.91553
1.325	1928788	PV	.207	12.82369
1.511	1746711	VV	.320	11.61367
1.705	431652	VV	.194	5.19444
2.163	5572364	VV	1.141	37.05328
3.463	2142413	VV	.776	14.24464
6.524	1076887	VV	2.929	7.15477

TOTAL AREA=1.5040E+07
MUL FACTOR=1.0000E+00

001552

* RUN # 3579 APR 16. 1999 14:35:59
START



Closing signal file M:SIGNAL .BNC

RUN# 3579 APR 16. 1999 14:35:59

SAMPLE NAME: SOIL
METHOD NAME: M=CHLORITE.MET
G/IC-PAKTS2101A

Sample A
8 days

IDENTIFIER : * *2/8 day*
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

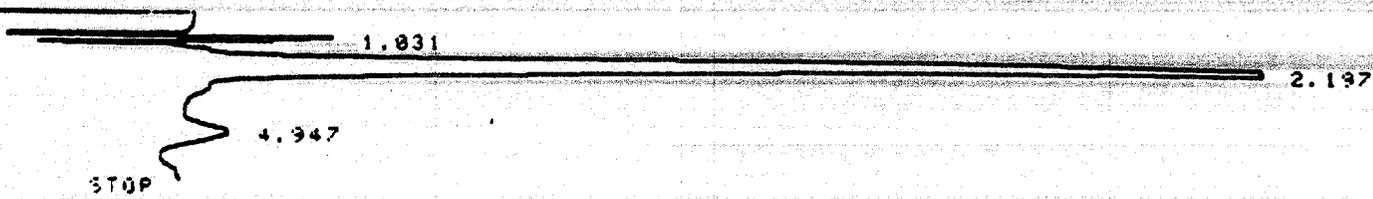
NO CALIB PEAKS FOUND
AREA:

RT	AREA	TYPE	WIDTH	AREA%
.292	279959	BV	.416	1.61283
.881	3332021	VP	.252	19.19558
1.490	1444117	PV	.327	8.31948
1.698	809904	VV	.191	4.66581
2.221	3673458	VV	.641	21.16258
2.868	4557818	VV	.769	26.25733
4.324	2137301	VP	.980	12.31387
5.730	537604	PV	.488	3.09711
6.611	586090	VV	.895	3.37643

TOTAL AREA=1.7358E+07
MUL FACTOR=1.3000E+00

001553

* RUN # 9580 APR 16, 1999 14:44:12
START



Closing signal file M:SIGNAL .BNC

RUN# 9580 APR 16, 1999 14:44:12

Sample C-Blank
8 days

SAMPLE NAME: SOIL
METHOD NAME: M*CHLORITE.MET
G/IC-PAKT82101A

IDENTIFIER : * C blank / 8 day
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

NO CALIB PEAKS FOUND
AREA:

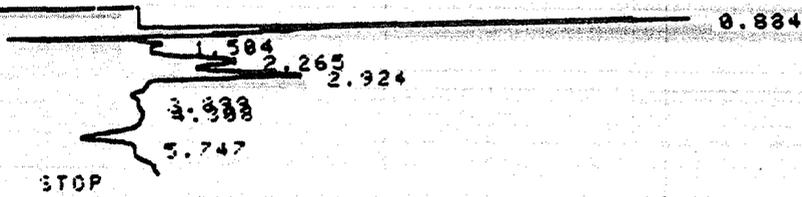
RT	AREA	TYPE	WIDTH	AREA%
1.031	3606638	BV	.228	3.21539
2.197	24517456	VB	.645	36.68349
4.947	1159791	BP	.761	4.10054

TOTAL AREA=2.8284E+07
MUL FACTOR=1.0000E+00

001554

* RUN # 3581
START

APR 16, 1999 14:52:22



Closing signal file M:SIGNAL .BNC

RUN# 3581

APR 16, 1999 14:52:22

Sample C
8 days

SAMPLE NAME: SOIL
METHOD NAME: *CHLORITE.MET
G/IC-PAKT82101A

IDENTIFIER : * *C/8 days*
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

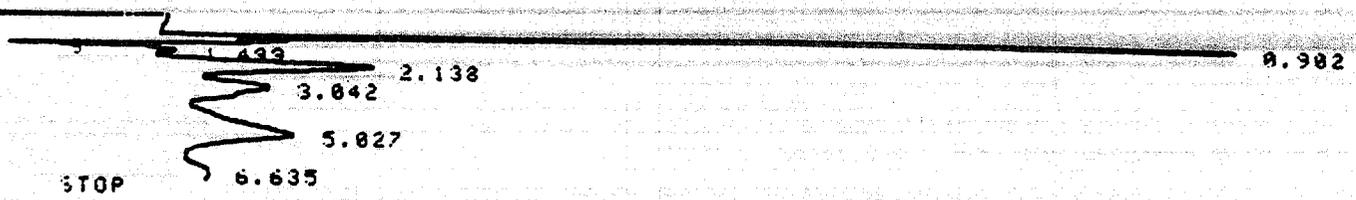
ESTD-AREA	RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
	0.884	PP	3758968	.216	290560		.000	
	1.584	PV	1857333	.397	77972		.000	
	2.265	UV	4272010	.711	100112		.000	
	2.924	UV	4592192	.636	120354		.000	
	3.888	UV	991763	.399	41452	1R	13.932	CHLORITE
	4.388	VP	2255342	.970	38741		.000	
	5.747	PH	503515	.484	17354		.000	

TOTAL AREA=1.3331E+07
MUL FACTOR=1.0000E+00

001555



* RUN # 9582 APR 16, 1999 15:00:41
START



Closing signal file M:SIGNAL .BNC

RUN# 9582 APR 16, 1999 15:00:41

SAMPLE NAME: SOIL
METHOD NAME: M*CHLORITE.MET
G/IC-PAKT32101A

Sample E-Blank
8 days

IDENTIFIER : * *E blank / 8 days*
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

NO CALIB PEAKS FOUND
AREA%

RT	AREA	TYPE	WIDTH	AREA%
.902	4157466	SBB	.126	3.91308
1.499	1956469	BV	.368	4.56501
2.138	6994848	VV	.672	16.67354
3.042	7980890	VV	1.030	19.02966
5.027	14451600	VV	1.725	34.45843
6.635	6397962	I VH	1.029	15.25532

TOTAL AREA=4.1939E+07
MUL FACTOR=1.0000E+00

001556

* RUN # 9583 APR 16, 1999 15:08:54
START

0.986
1.938

3.598

STOP

6.559

Closing signal file MISIGNAL .BNC

RUN# 9583 APR 16, 1999 15:08:54

SAMPLE NAME: SOIL
METHOD NAME: M=CHLORITE.MET
G/IC-PAKT32191A

Sample E
8 days

IDENTIFIER : * *E / 8 day*
SIGNAL FILE: M:SIGNAL.BNC

CHLORITE

ESTD-AREA

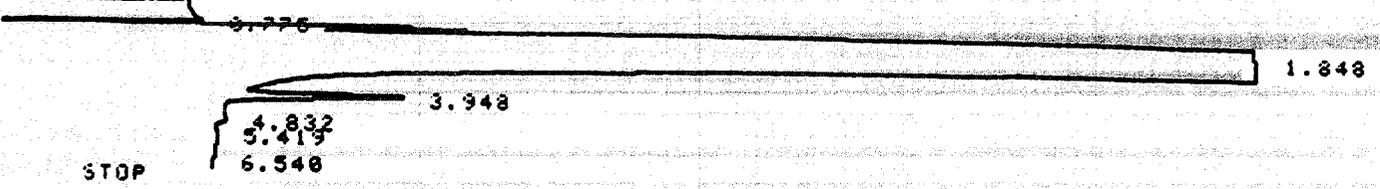
RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
0.986	SBH	4153360	.090	768321		.000	
1.938	ISHH	368955040	.839	7332602		.000	
3.560	TBV	15707	.195	1343		.000	
3.914	TVP	717645	1.311	9123	1R	10.082	CHLORITE
6.559	ITPB	3307456	.334	164995		.000	

TOTAL AREA=3.7715E+08
MUL FACTOR=1.0000E+00

001557

10

* RUN # 9586 APR 16, 1999 15:33:55
START



Closing signal file M:SIGNAL .BNC

RUN# 9586 APR 16, 1999 15:33:55

SAMPLE NAME: SOIL
METHOD NAME: M:CHLORITE.MET
G/IC-PART82101A

std 18.32 ppm

IDENTIFIER : * std 18.32 ppm
SIGNAL FILE: M:SIGNAL.BNC

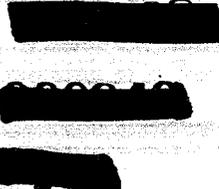
CHLORITE

ESTD-AREA

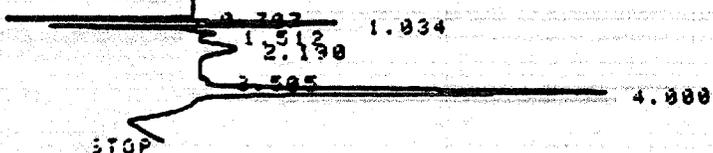
RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
.775	BP	3253181	.416	138492		.000	
1.848	ISPH	403329280	.905	7429219		.000	
3.948	TBP	916079	.210	72876	IR	12.369	CHLORITE
4.832	TPP	90308	.401	3757		.000	
5.413	TPV	57856	.478	2019		.000	
6.540	TPP	11170	.246	757		.000	

TOTAL AREA=4.0766E+08
MUL FACTOR=1.0000E+00

001558



* RUN # 9587 APR 16. 1999 15:42:12
START



Closing signal file M:SIGNAL .BNC

RUN# 9587 APR 16. 1999 15:42:12

SAMPLE NAME: SOIL
METHOD NAME: M*CHLORITE.MET
G/IC-PAKT32101H

IDENTIFIER : * *Std 45.8 ppm*
SIGNAL FILE: M:SIGNAL.BNC

Std 45.8 ppm

CHLORITE

ESTD-WPEH

RT	TYPE	AREA	WIDTH	HEIGHT	CAL#	PPM	NAME
0.707	BP	3926200	.463	141228		.000	
1.034	PV	3422738	.247	238774		.000	
1.512	VV	4109733	.442	154846		.000	
2.190	VV	8430886	1.067	131686		.000	
3.505	VV	1340237	.396	56436		.000	
4.000	VB	3775304	.302	208586	1R	53.036	CHLORITE

TOTAL AREA=2.5005E+07

MUL FACTOR=1.0000E+00

001559

