PROMIUM

Mint Miner[™] Version 2.6 From PROMIUM®

USER MANUAL

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Chapter 1 - Introduction

Promium Mint Miner is a data analysis tool that lets you monitor computer-generated laboratory data. It can be used as a standalone application or in conjunction with Promium Element LIMS[™]. Mint Miner lets you evaluate the integrity of large volumes of output from chromatography data systems. Mint Miner lets you scan files on your server, and save them to your local drive for review.

Mint Miner is designed to work with the following environmental laboratory analysis programs:

- Agilent Enviroquant
- Thru-Put Systems Target
- PerkinElmer TurboChrom

Mint Miner analyzes sample and method data files for irregular or unusual events. You set options and numerical point values that tell Mint Miner which events to watch for, and how significant you expect the events might be.

Mint Miner offers enhancements in the field of environmental chromatographic analysis:

- Internal controls are supported to maintain integrity of laboratory processes.
- An audit trail is generated to provide traceability for data system files.
- Efficient processing of data frees up valuable laboratory or agency resources.

To access the online help system:

- 1. Open Mint Miner.
- 2. From the Help menu, click Help Topics to open and use the online help system.

Requirements

To run the current version of Mint Miner your computer system must meet the following requirements:

- A minimum of a Pentium[®]-based personal computer running at 200 megahertz (MHz).
- A minimum of 32 megabytes (MB) of random-access memory (RAM).
- A minimum of 12 MB free disc space.
- Microsoft[®] Windows[®] 2000 Professional, Microsoft[®] XP, or Microsoft[®] Windows[®] 7
 Mint Minor is Windows 7.04 bit second tible

Mint Miner is Windows 7 64-bit compatible.

Using This Documentation

Files and More Files

This manual will refer to two types of files; data files and review files. Data files consist of the sample and method files that are generated by Enviroquant, Target, Turbochrom, etc. There may be one file associated for each sample (e.g. Turbochrom *.rst file) or there may be many samples (e.g. Enviroquant uses audit.txt, EpaTemp.txt and PrePost.ini). You are able to scan data files that are located on your local machine or are stored on your network.

The results of a scan are stored in a Review File in the form of an MS Access database (e.g. MyScan.mdb). The scan results of many data files may be stored in one review file; however, it is advised that you limit the number and type of samples per review file. Examples would be one review file per analytical batch or curve or all of the continuing calibrations for one instrument over a period. Storing data file results from multiple instruments, analyses or analytical batches in one review file may easily cause a confusing result set. The terms result file and database may be used interchangeable in the scope of Mint Miner functions. It is advised that result files be stored separately from data files, preferably on your local machine.

Chapter 2 - Navigation

The following section describes how to get the best results when using the Mint Miner software.

Help Basics

Use this section to learn about help and how to navigate within Mint Miner.

Using Help

The Help command provides quick and convenient access to program instructions, a help tutorial, and an update link to the Promium web site.

To obtain Help:

There are three basic ways to use the Help command:

- 1. Locate and open topics from the Contents Tab.
- 2. Open topics from the Index Tab.
- 3. Locate topics using the Find Tab.

To open Help:

- 1. From the Help menu, click Help Topics.
- 2. Click the Contents tab to browse through a list of help topics.
- 3. Click on a book, and browse through topics in the book.
- 4. Click the Index tab and enter a word or scroll through the list to see a selection of index entries.
- 5. Click the Search tab to look for specific words or phrases.

Basic Navigation

This section describes common buttons and tricks for using Mint Miner. Use this section to locate information about navigation before you begin using the more sophisticated Mint Miner components.

Interface Buttons

This section describes the buttons used in Mint Miner

Button	Description
	New – Click New to save the files listed in the Mint Miner main dialog as a new review file. When you save a file using this method, Mint Miner saves it as an Access database file with an .mdb extension.
*	Open – Use this button to open a previously saved review file.
	Save and Save As – Use this button to save a previously saved review file. If the file was not previously saved, the Save As dialog will open to let you assign a name and specify where the file will be stored.
4	Print – Use the Print button to generate a report of the contents of a selected review file.
<u>à</u>	Preview – Click Preview to review a report about the contents of your review window.
	Options – Scan Options can be modified if you click this button. You can specify User Information, Special Codes, Manual Integration Codes and Deletion Codes using this button.
	Analytes – Click the Analytes button to review, sort, print, clear or remove analytes from the list.
	Details – Click the Details button to review the detailed information for a specified sample.
	Baker Plot – Click the Baker Plot button to view a timeline display of events and alerts for the selected samples.
<u>i</u>	Scan Files – Click the Scan Files button to open the Scan Files dialog. You can scan one or more folders for instrument data files.
×	Close – Use this button to close the window.

Sorting in Mint Miner

You can easily sort fields in Mint Miner. Most dialog boxes inside Mint Miner windows contain the option that allows you to click on a column title to sort data by the column.

Status	Level	Code	File	Operator	Inst	Sample	Misc
Tune	000		C:\MINTMI~1\XMPLDATA\MS\SMPL01.D	CQL	GCMS6	50NG BFB	50NG BFB TUNE
Tune	000		C:\MINTMI~1\XMPLDATA\MS\SMPL05.D	CQL	GCMS6	4-BFB tune	50 ng BFB
Available			C:\MINTMI~1\XMPLDATA\MS\SMPL02.D	CQL	GCMS6	25ng #12345	VOA Cal
Available 🗋			C:\MINTMI~1\XMPLDATA\MS\SMPL03.D	CQL	GCMS6	20ng #12345	VOA CAL #2
🗋 Available			C:\MINTMI~1\XMPLDATA\MS\SMPL04.D	CQL	GCMS6	20ng #12345	VOA CC

Figure 2.1: The default order in the Mint Miner main dialog is shown in this example.

Click on the column label of any column to change the order of the contents of the pane.

Status	Level	Code	File	Operator	Inst	Sample	Misc
🗋 Available			C:\MINTMI~1\XMPLDATA\MS\SMPL02.D	CQL	GCMS6	25ng #12345	VOA Cal
🗋 Available			C:\MINTMI~1\XMPLDATA\MS\SMPL03.D	CQL	GCMS6	20ng #12345	VOA CAL #2
🗋 Available			C:\MINTMI~1\XMPLDATA\MS\SMPL04.D	CQL	GCMS6	20ng #12345	VOA CC
Tune	000		C:\MINTMI~1\XMPLDATA\MS\SMPL01.D	CQL	GCMS6	50NG BFB	50NG BFB TUNE
🗋 Tune	000		C:\MINTMI~1\XMPLDATA\MS\SMPL05.D	CQL	GCMS6	4-BFB tune	50 ng BFB

Figure 2.2: By clicking on the Status column, the contents of the pane are changed so that the new order is by status.

Note: Click the same column label again to sort the column in descending order.

Chapter 3 – Using Mint Miner

Opening Mint Miner

When you install Mint Miner, it automatically installs a shortcut on your desktop. You can use the shortcut or use Start button>Programs>Mint Miner to open the application. When Mint Miner starts, you can choose to either scan data files or open an existing review file.

Scanning Data Files

When you select the Scan Data Files option, Mint Miner will open the Scan Files dialog and immediately pre-scans all the files in the last selected path to locate valid instrument files. When Mint Miner finds valid files, they are listed in the Scan Files dialog. However, the files listed have not been scanned for analytes or other problems. All scan means when used in this dialog, the files are located and identified as instrument data files for further use in Mint Miner. From the scan results, you can select one or more files to add to a review file.

To open and scan files in Mint Miner:

1. On your desktop, click the Mint Miner icon.



2. In the Open File dialog, click the Scan Data Files option, and then click OK.

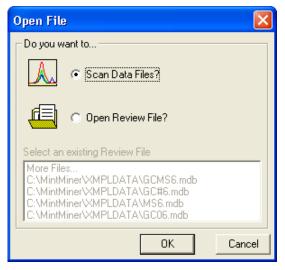


Figure 3.1: Open File dialog box.

	🔹 🍋 🛛 HP Enviroqu	Jant 🚽 💌	· Ω [S 🔲	I 🕹 🖪 🛛	X
C:\ Program Files MintMiner XMPLDATA XMPLDATA SMPL00.D SMPL01.D SMPL02.D SMPL03.D SMPL05.D SMPL05.D SMPL06.D SMPL06.D SMPL07.D SMPL08.D SMPL08.D SMPL08.D SMPL09.D SMPL09.D Av	vailable	File SMPL00.D SMPL02.D SMPL03.D SMPL04.D SMPL05.D SMPL05.D SMPL07.D SMPL07.D SMPL09.D SMPL10.D SMPL10.D SMPL11.D SMPL13.D SMPL13.D SMPL15.D TPHGS.M	Operator CQL CQL	Inst GC #6 GC #6	Sample btexmn std SAMPLE 15 RINSE SAMPLE 16 SAMPLE 17 SAMPLE 18 SAMPLE 19 SAMPLE 20 SAMPLE 20 SAMPLE 21 SAMPLE 21 SAMPLE 22 SAMPLE 23 SAMPLE 23 SAMPLE 23 SAMPLE 23 SAMPLE 23 SAMPLE 25 SAMPLE 01 (100x) SAMPLE 02 (5x) SAMPLE 01 (100x) TPH-G Soil Method	Misc 50 ng #12345 5 mL 5 mL 5 mL 5 mL 5 mL 5 mL 5 mL 5 mL 5 mL 250 uL 250 uL 250 uL 50 uL 5 mL 1 mL 5 uL 1 mL 5 wL

Figure 3.2: Clicking the Scan Data Files option opens the Scan Files dialog.

Scanning files will be discussed in detail in "Chapter 4 – Scanning Files".

Opening Review Files

A review file is an Access database file (.mdb) that contains the data and scan results from one or more instrument data files generated from a compatible instrument.

To open a review file in Mint Miner:

1. On your desktop, click the Mint Miner icon.



2. In the Open File dialog, click the Open Review File option and select an existing file from the Review File list.

Open File 🛛 🔀
Do you want to
🔍 🤆 Scan Data Files?
Open Review File?
Select an existing Review File
More Files C:\MintMiner\XMPLDATA\GC#6.mdb C:\MintMiner\XMPLDATA\MS6.mdb C:\MintMiner\XMPLDATA\GCMS6.mdb C:\MintMiner\XMPLDATA\GC06.mdb
OK Cancel

Figure 3.3: Open File dialog box.

3. Click OK to open the Review File.

🙏 Mint Mine	r 2.00	0 (1208) - GCMS6.md	lb					
File Print View Help								
Status	Level	Code	File	Operator	Inst	Sample	Misc	
Scanned 🗋	005	TA(1)	C:\Program Files\MintMiner\XMPLDATA\MS\SMPL01.D	CQL	GCMS6	50NG BFB	50NG BFB TUNE EV	
Scanned 🗋	005	M(1),QM(2)	C:\Program Files\MintMiner\XMPLDATA\MS\SMPL02.D	CQL	GCMS6	25ng #12345	VOA Cal	
FLAGGED	022	MP(3),M(3),MT(1),MR(1)	C:\Program Files\MintMiner\XMPLDATA\MS\SMPL03.D	CQL	GCMS6	20ng #12345	VOA CAL #2	
Scanned	004	MC(1),M(1)	C:\Program Files\MintMiner\XMPLDATA\MS\SMPL04.D	CQL	GCMS6	20ng #12345	VOA CC	
Scanned 🗋	025	TA(1),TF(2)	C:\Program Files\MintMiner\XMPLDATA\MS\SMPL05.D	CQL	GCMS6	4-BFB tune	50 ng BFB	
Reviewed	008	MR(1),M(3)	C:\Program Files\MintMiner\XMPLDATA\MS\SMPL06.D	CQL	GCMS6	MDL	50ng	
Scanned 📄	006	MR(1),M(1)	C:\Program Files\MintMiner\XMPLDATA\MS\SMPL07.D	CQL	GCMS6	SAMPLE 65	500ul	
🗋 FLAGGED	017	MC(3),M(3),MR(1)	C:\Program Files\MintMiner\XMPLDATA\MS\SMPL08.D	CQL	GCMS6	LCS QC	250ng	
Scanned 🗋	004	MC(1),M(1)	C:\Program Files\MintMiner\XMPLDATA\MS\SMPL09.D	CQL	GCMS6	8260 Std	250ng	
FLAGGED	023	MB(2),M(6),MR(3)	C:\Program Files\MintMiner\XMPLDATA\MS\SMPL10.D	CQL	GCMS6	20ng #12345	CCAL	
🗋 FLAGGED	014	MR(2),MB(2),M(2)	C:\Program Files\MintMiner\XMPLDATA\MS\SMPL11.D	CQL	GCMS6	20ng STD	CCAL #2	
Reviewed	007	M(2),MR(1)	C:\Program Files\MintMiner\XMPLDATA\MS\SMPL12.D	CQL	GCMS6	20ng STD	CCAL	
<								
Data Files: 12								

Figure 3.4: The Mint Miner main interface lists the contents of the Access database file you opened.

The Main Interface

After you open Mint Miner and select a database, the grid displays basic scan results and file info for all sample and method files saved in the result file. You can perform several tasks on the data in the grid including:

- Mark items as reviewed or flagged.
- Remove items from the grid.
- Viewing File Details (See page 30, "Viewing File Details" in Chapter 5).
- Rescan files using the same or different scan options. Note: Method files cannot be rescanned. Their audit files are too large to store in the review file.
- View and print reports (See page 33, "Reports" in Chapter 5).
- View the Baker Plot (See page 32, "The Baker Plot" in Chapter 5).

From the main interface you can also access:

- Scan options (See page 17).
- The analyte table (See page 20).
- The Scan files dialog (See chapter 4, "Scanning Files" on page 24).

From the Scan Files dialog, you can select other files to add to the database. When you do so, they will be listed in the main interface, but ARE NOT part of the saved database's contents UNTIL you click Save and cause Mint Miner to save the currently shown contents of the interface. If you exit without saving, the next time you open the .mdb file in Mint Miner, your contents will reflect those from the last time you saved the file.

Using the File Menu

The File menu contains commands to create, open and save review files.

To save a new (empty) review file:

- 1. From the File menu, click New, or click New D on the toolbar.
- 2. In the Save As dialog, enter the name of the new file, and then click Save.

You are now ready to open the Scan Files dialog and precede scanning new data files.

Note: This file will be deleted when you close Mint Miner if no scans have been saved to the review file.

To open a new review file:

- 1. From the File menu, click Open, or click 2 on the toolbar.
- 2. Select the name of the file you want to open, and then click OK.

To save a review file:

1. From the File menu, click Save, or click Save 😡 on the toolbar. Mint Miner will save your open file under its own name without any further messages.

To save a review file with a new name (Save As):

- 1. From the File menu, click Save As.
- 2. In the Save dialog, enter the name of the new file, and then click Save.

Your file will be saved with a new file name.

Use the Save As command to save an open review file with a new name. This command is useful if you want to make a backup of a review file or if you have another use for a review file without any changes made to it that take effect after the time and date stamp of your save procedure.

Using the Main Interface Shortcut Menu

After you open a review file, you can select one or more of the files in the list and use the shortcut menu to select all data files, re-scan selected data files (except methods), change the data file status to reviewed or flagged, remove selected files, and view file and report details.

Select All
Re-Scan Remove Item
Mark as Reviewed Mark as Flagged
View File Details View Detail Report

Figure 3.5: The shortcut menu available from Mint Miner's main dialog.

To select all files in the review file:

1. Right-click inside the Mint Miner data file list.

👗 Mint Min	لم Mint Miner 2.00 (1208) - GCMS6.mdb								
File Print Vi	File Print View Help								
🗋 🖼 🖥									
Status	Level	Code	File	Operator	Inst	Sample	Misc		
Scanned	005	TA(1)	C:\Program Files\MintMiner\XMPLDATA\MS\SMPL01.D	CQL	GCMS6	50NG BFB	50NG		
C Scanned	005	M(1),QM(2)	C:\Program Files\MintMiner\XMPLDATA\MS\SMPL02.D	CQL	GCMS6	25ng #12345	VOA (
FLAGGED	022	MP(3),M(3),MT(1),MR(1)	C:\Program Files\MintMiner\XMPLDATA\MS\SMPL03.D	CQL	GCMS6	20ng #12345	VOA (
C Scanned	004	MC(1),M(1)	C:\Program Files\MintMiner\XMPLDATA\MS\SMPL04.D	CQL	GCMS6	20ng #12345	VOA (

Figure 3.6: The Mint Miner main interface.

2. Click Select All.

To re-scan files:

- 1. Right-click inside the Mint Miner data file list.
- 2. From the shortcut menu, click Re-scan.

Note: Method audit files are too large to store in the database. Therefore, re-scanning of method files is not possible.

All files in the Review data files dialog will be re-scanned.

Deleting Data Files

You can select one or more files from the Review Files list in the Mint Miner main dialog. Files in the Review Files list will still appear in the Scan Files dialog. However, when you remove a file from the Review Files, its status will change from Saved to the status it was before it was saved.

To delete data files from the Review Files list:

- 1. Select the data files you want to remove from the Review Files list.
- 2. From the shortcut menu, click Remove Item.

Mint Miner 2.00 (12	208) 🛛 🖂
Remove the selected fi	les from this review set?
Yes	No

Figure 3.7: Shortcut menu.

3. Click Yes to confirm the deletion.

Changing Data File Status Codes

You can select one or more data files and then change their status to either Reviewed or Flagged. This is a useful command when you want to indicate which files you've reviewed and which of those need special attention.

To change the status codes:

- 1. Select one or more files from the Review list.
- 2. Right-click inside the Review list, and then click one of the two "Mark as..." commands to change the status of the selected files.

Viewing File Details and the Detail Report

You can use the shortcut menu to access the File Details and Detail Report views. For more information about File Details, see "Viewing File Details" on page 27. For more information about the Detail Report, see "Detail Report" on page 30.

To view the File Details:

- 1. Select the file you want to review.
- 2. Right-click to view the shortcut menu, and then click View File Details.

To view the Detail Report:

- 1. Select the file you want to review.
- 2. Right-click to view the shortcut menu, and then click View Detail Report.
- 3. Click Printer if you want to print the report.

Scan Options

The scan options dialog is where you set the criteria used for the scanning data files. The criteria, also known as alerts, have been grouped into several categories, each located on a separate tab. Each alert has a code and points value assigned to it. Whenever a criterion is reached, an alert with that code and point value is raised. The user can change codes and point values to best suit their needs. The user can also turn events on and off with the Active check box. Some alerts have an additional criterion (X) for specifying the number of times an event occurs or duration between events before raising an alert.

🚣 Mint Miner 2.00 (1208) - Scan Options 🛛 🛛 🔀							
Deletion Codes User Info	Method (Special Codes	Codes	Date Codes Manual Integration Codes				
Flag file at attention I	evel: 10		Code	Points	Active		
	integrations of the same nalyte	3	ММ	5			
Multiple manual in	tegrations of the same < minutes apart	10	MT	5	~		
Manual integration w	10	MR	5				
Processed >X times	3	QM	2				
Manual integration a	nd deletion of the same and	alyte	MQ	1			
Tune spectrum obtai	ned by spectral averaging		TA	5			
Tune failed acceptar	nce criteria		TF	10			
Audit trail user-disable	ed		AX	5	◄		
Defaults		ок	Apply		Cancel		

Figure 3.8: The Scan Options dialog lets you change options that will affect scan results.

If, for example, you were concerned that an analyst manually integrating the same peak multiple times may be trying to adjust the peak to obtain a desired value, then you would set values for the first scan option shown in Figure 25, above. The value of X = 3 would raise an alert if the same analyte was manually integrated three or more times and would give it an alert code of "MM" and a point value of 5.

The "flag at attention level" value will flag a sample by turning the status red if the sum of points assigned to that sample after scanning reaches or exceeds that value.

🙏 Mint Miner 2.02 (60515) - Scan Options			X
User Info Special Codes M Deletion Codes Method Codes	lanual Inte Date	egration C e Codes/C	
Method audit file date filter: From IR 11/25/2003 - Flag method file at attention level: 30 Disa	To 🔽		
×	Code	Points	Active
Method audit trail; update single calibration	CU	5	
Calibration sample analyzed or sample update times differ by >X hours in Method Info file	CT	5	
Fewer than X calibration points for any analyte 4	CP	5	
Dropping mid-point calibration standard for any analyte	CD	2	
Calibration Avg RF or %RSD out of range for any analyte	CR	1	
CCCheck analyte out of range	CC	1	
Defaults DK	Apply		<u>C</u> ancel

Figure 3.9: Method Codes tab of the Scan Options dialog.

Method scanning is available for Enviroquant and Target files. Audit files for method files can become very long; therefore, you need to specify the date filters before scanning. Failure to do so will most likely cause excessive time required to scan the file and produce unnecessary alerts.

Method files directories are often located near those for sample files, and the user may not always be interested in scanning the method files. It would be cumbersome to remove the method files from the scanning directories or to edit the scan options to adjust the date filter every time you scan files. For this reason a 'Disable method scanning' check box has been included in the Scan Options dialog. If this option is clicked, methods will no longer be scanned.

The alerts and numerical points for methods are very different than those that will be encountered with sample data. For this reason, method files have a separate "flag at attention level" than samples.

There are four ways that the Scan Options dialog may be opened:

- 1. Click View on the menu bar and then click Scan Options.
- 2. By clicking on the Scan Options icon icon on the Main Interface Dialog (See figure 3.6 on page 15).
- 3. By clicking on the Scan Options icon and the Scan Files Dialog (See figure 4.1 on page 24).
- 4. Right click inside the Scan Files Dialog grid and select Scan Options on the shortcut menu (See page 28).

Saving and Restoring Scan Options

Clicking the Apply button will save the scan options. These settings will be used for all scans until the settings are changed, including if you restart Mint Miner. However, what if you want to save different scan settings for scanning different instrument files, methods, calibrations, clients or for any other reason? You are able to save user defined scan option settings to a file. You can save as many scan settings as desired and reload them as the current settings as needed. You can also share user defined settings with other computers that have registered copies of Mint Miner.

To save a user defined scan setting:

- 1. Click the Defaults button.
- 2. Select "Save current settings as user defined".
- 3. Type in a file name descriptive of the scan definition (e.g. EnviroquantMethod.cfg).

To load a user defined scan setting:

- 1. Click the Defaults button.
- 2. Select "Reset to saved user defined".
- 3. Browse to and select appropriate file.
- 4. Click the Apply button.

To return to the factory scan settings:

- 1. Click the Defaults button.
- 2. Select "Reset to program defaults".
- 3. Click the Apply button.

Using the Analyte Table

The analyte table is used to identify compounds and their specific use in an analysis. By marking an analyte as a surrogate, for example, any minted event for that analyte (See Scan Options) will be flagged appropriately.

🗛 Analyte Table - GCMS6.mdb								
File Edit								
Analyte	CCC	SPCC	SURR	SPKE	ISTD	BLNK	SPCL	
1,2,3-TFB (PID)					Х			
2-Butanone (MEK)						Х		
4-BFB (PID)			Х					
4-Methyl-2-pentanone (MIBK)								
Benzene (PID)								
Chloroethane								
Chloromethane		X						
Dibromomethane								
Ethylbenzene (PID)								
m,p-Xylene (PID)								
Naphthalene								
o-Xylene (PID)								
02 1 11 21	0							

Figure 3.10: The Analyte table shows the analytes used in the Review file.

Viewing the Analyte Table

When scanning data files, you are prompted to view the analyte table whenever a new analyte is found. You can also access the Analyte table from the View menu. When you open the table, you can sort the data, clear the table, remove analytes, and print.

To view the Analyte table:

- 1. From the View menu, click Analyte table.
- 2. Or, click the Analytes button to open the Analyte table.

To print the Analyte table:

- 1. From the File menu, click Print.
- 2. In the Print Setup dialog, change the Windows default printer if needed, and make any other changes.
- 3. Click OK to print the Analyte table.

To clear all analytes in the analyte table:

1. From the Edit menu, click Clear All.

Mint Miner 2.0	00 (1208) 🛛
Delete all analyt	es from the table?
Yes	No

Figure 3.11: Confirmation to delete analytes.

2. Click Yes to confirm that you want to clear all analytes from the table.

Rescanning data files after analyte table additions

When a data file is scanned, any analytes not already in the analyte table will be added. The user then has the ability to modify the analyte table and assign the analyte to the appropriate type(s). It will be necessary to rescan data files after modifying the analyte table so that the appropriate alerts may be applied to the new analyte types.

Saving and loading analytes to the default analyte database

Each time you create a new review file, you start off with an empty analyte table. When you scan a set of files, you will be prompted when new analytes are found. It will soon become cumbersome to have to reassign the same analyte types with every new review file.

Analyte sets may be stored and retrieved from a separate analyte database. When you save an analyte set as the default, it will automatically be loaded to the analyte table of a new review file or new scan. Loading an analyte set will overwrite all data in the analyte table.

Å	🚣 Analyte Table - 20060828.mdb 📃 🗖 🔀									
File	File Edit									
	Analyte	CCC	SPCC	SURR	SPKE	ISTD	BLNK	SPCL		
	2,4,5-Trichlorophenol									
	2-Butanone						Х			
	2- 2-									
	At Analytic Cat. 10000					_				
	Be Analyte Set 8260					-				
	Be Set as default analyte table w	/hen	•							
	B_{f} creating a new review file									
	Be				OK					
	bistz-chioroeutytjeuter									
	Methylene chloride						Х			
	n-Nitrosodimethylamine									
	Phenol	Х			Х					

Figure 3.12: Saving to the Analyte Database.

To save the current analyte table to the analyte database:

- 1. Right click on the analyte table and select Save to Analyte Database.
- 2. In the resulting frame, type in a new name or select an analyte set to be over written.
- 3. Click the default box if you want this analyte table to be the default for all new review files.
- 4. Click OK to save the analyte set.

To load an analyte set from the analyte database into the analyte table:

- 1. Right click on the analyte table and select Load from Analyte Database.
- 2. In the resulting frame, select the analyte set to load. Note: Any contents in the current analyte table will be over written.
- 3. Click OK to load the analyte set.

Printer Setup

The Print commands use Crystal Reports to control the actual printing tasks in Mint Miner. Before printing any report, use the setup command to select the printer you want your report to use. When you use the Setup command, you must reconfigure your printer settings every time you open Mint Miner and want to print a report.

To setup the printer:

1. From the Print menu, click Setup.



2. In the Print Setup dialog, click the Printer down arrow to select another printer from the list.

P	rint Setup			? 🔀
	Printer			
	Name:	Acrobat Distiller	•	Properties
	Status:	Ready		
	Type:	AdobePS Acrobat Distiller		
	Where:	C:\Documents and Settings\All Users\	.Desktop*.pdf	
	Comment:			
	Paper		- Orientation)
	Size:	Letter		 Portrait
	Source:	Automatically Select	A	C Landscape
	Network		OK	Cancel

Figure 3.13: The print setup dialog.

 Change the Paper Size, Source or Orientation as needed, and click OK to change your printer settings.

Chapter 4 - Scanning Files

Scanning Files

After you open a new Access database file or an existing database containing instrument review data, you can use the Scan Files dialog to locate instrument data files, scan them for analytes and update the analyte table.

There are three ways to get to the Scan Files dialog:

- 1. When you first start Mint Miner, select "Scan Data Files?" on the Open File dialog (See figure 3.1 on page 11).
- 2. From the Main Interface menu select View. Then select Scan Files.
- 3. From the Main Interface tool bar click on the scan icon.

1. Use the folders pane to locate files.	2. Use the dro down to spe file type.		3	. Unscanned files of mat file type wi display a st of available Level and will be emp	ching 11 atus 9. code		l. Click Scan so Mint Miner wil scan the Data Files for analyt attention level: and alert code:	ies, s	
🕹 Mint Miner 2.00	(1208) - Scan F				/	/			_ 🗆 🛛
🗇 c: [RTS1132]	•	· 🍋]	PEnvi	iroquant	<u>0</u>	r 🛄	🔳 🚑 🖪 🖬	×	
Folders	Dat	a Files – j							
🔁 C: \	🔼 St	atus Levi	el Coo	de File	Operato	r Inst	Sample	Misc	
🔄 🔁 Program Files	Av	ailable		SMPL00.D	CQL	GC #6	btexmn std	50 ng #12345	
🔄 MintMiner	Av	ailable		SMPL01.D	CQL	GC #6	SAMPLE 15	5 mL	
🔄 XMPLDATA		ailable /		SMPL02.D	CQL	GC #6	RINSE	5 mL	
🚔 GC		ailable /		SMPL03.D	CQL	GC #6	SAMPLE 16	1 mL	
📄 SMPLOO.D		ailable		SMPL04.D	CQL	GC #6	SAMPLE 17	5 mL	
📄 SMPL01.D		ailable		SMPL05.D	CQL	GC #6	SAMPLE 18	5 mL	
📄 SMPL02.D		ailable		SMPL06.D	CQL	GC #6	SAMPLE 19	5 mL	
📄 SMPL03.D		ailable		SMPL07.D	CQL	GC #6	SAMPLE 20	5 mL	
📄 SMPL04.D		ailable		SMPL08.D	CQL	GC #6	SAMPLE 21	5 mL	
📄 SMPL05.D		ailable		SMPL09.D	CQL	GC #6	SAMPLE 22	5 mL 250 uL	
SMPL06.D		ailable ailable		SMPL10.D SMPL11.D	CQL CQL	GC #6 GC #6	SAMPLE 23 SAMPLE 24	250 uL 250 uL	
📄 SMPL07.D		ailable		SMPL11.D	CQL	GC #6	SAMPLE 24 SAMPLE 01 (100x)	200 uL 50 uL	
📄 SMPL08.D		ailable		SMPL12.D	CQL	GC #6	SAMPLE 01 (100x)	50 u∟ 5 mL	
SMPL09.D		ailable		SMPL13.D	CQL	GC #6	SAMPLE 23 SAMPLE 02 (5x)	1 mL	
SMPL10.D		ailable		SMPL15.D	CQL	GC #6	SAMPLE 01 (1000x)	5uL	
SMPL11.D		ailable		TPHGS.M		40.00	TPH-G Soil Method	Initial Calibration	
SMPL12.D	~ <								>
Files: 17									

Figure 4.1: A Scan Files dialog example shows files available for scanning.

After you open the Scan Files dialog, you can perform other tasks such as:

- Adding files to a data review file (see page 25).
- Scan the data files in the Data File pane for analyte errors (see page 25).
- Print a list or details for a selected instrument file (see page 27).
- Review file details (see page 28).
- Review the analyte table (see page 20).
- Set scan options (see page 17).

To scan files:

- 1. Use the Folders pane to locate instrument data files.
- 2. Click the Scan button <u>Ω</u> to scan the files.

Or, right-click in the Data Files pane, and click Scan Files on the shortcut menu.

3. If the New Analytes Found dialog appears, click Yes to update the Analyte table with new analytes.

After the scan is complete, the Data Files list changes to show the Alert Code(s) and Level. In addition, the status is now changed to 'Scanned'.

	Scanned files will show: 1. A status of scanned. T maximum set in the opt 2. Level - A sum of all ale 3. A list of all of the alert	ions tables. rts values.	f the level is above the
🙏 Mint Miner 2.00 (1208) - Sc	an Files		
🖃 c: [RTS1132]	💽 🖌 HP Énviroquant 💽 👧 😭 🛽	🛛 🚽 🥔 🖪	X
Folders	Data Files/		
🔄 C: \ 🔼	Status/ Leve/ Code	File Operator	Inst Sample
🔄 🔁 Program Files 👘 👘	Scann/ed 008/ M(2),MR(1),MZ(1)	SMPLOO.D CQL	GC #6 btexmn std
🔄 MintMiner	Scannhed 000	SMPL01.D CQL	GC #6 SAMPLE 15
XMPLDATA	Scanned 000	SMPL02.D CQL	GC#6 RINSE
GC	Sçánned 00,0 \	SMPL03.D CQL	GC #6 SAMPLE 16
SMPL00.D	Sćanned 006 MI(2),M(2),MZ(2)	SMPL04.D CQL	GC #6 SAMPLE 17
🔁 SMPL01.D	Scanned 000	SMPL05.D CQL	GC #6 SAMPLE 18
📕 🛅 SMPL02 D	Scanned 000	SMPL06.D CQL	GC #6 SAMPLE 19

Figure 4.2: The Data Files list shows attention levels and alert codes.

When Mint Miner scans files, it looks for attention levels, alert codes and analytes. If analytes found in the scanned files are not listed in the analyte table, Mint Miner displays a dialog that asks if you want to add them. If you click yes, they'll be added to the table. If you click No, they will not cause any additional errors.

NEW AN	ALYTES FOUND
?	6 new analytes have been discovered. Do you want to check the analyte table to confirm the classification of the new analytes?
	Yes No

Figure 4.3: This dialog appears when you scan files containing analytes that aren't listed in the Analyte table.

Only analytes defined in the analyte table will have analyte specific criterion (e.g. Manual integration of a CCC) applied to them. If an analyte is not defined as a CCC or is not in the analyte table defined as such during the initial scan, then this criterion cannot be applied and an alert cannot be raised. Therefore, whenever a scan prompts you for additions to the analyte table and you modify the analyte table, you must scan the data a second time for those additions to take affect. See page 20 for more information on the analyte table.

Saving scans to the review file

After you scan files, you can add them to the Review file shown in the Mint Miner main dialog. When you add a file to the Review file, it remains listed in the Scan Files dialog, but the status changes to Saved. When you delete files from the Review file, their status changes back to what it was prior to being saved in the Review file.

HP Enviroquant 💽 👧 📸 🏢 🛃 🎒 🗟 🖌 🔚								
Data Files								
Status	Level	Code	File	Operator	Inst	Sample	Misc	
Saved			SMPL00.D	CQL	GC #6	btexmn std	50 ng #12345	

Figure 4.4: The status of the saved file is shown on the first line of Data Files.

To add files to the Review file:

- 1. Select one or more files to save to the Review file. Use the **Alt** or **Shift** keys to select multiple files.
- 2. Click the kave button in the tool bar or right-click in the Data Files pane, and then click Add to Review File.

This will only save the results to the Main Interface screen. From the Main Interface screen you must then save them to the existing or a new review file (See page 14, "Using the File Menu").

Using the Shortcut Menu in the Scan Files Dialog

Within the Scan Files dialog, you can use a shortcut menu to perform various tasks. This menu is only available from within the Scan Files dialog. You can use this menu to scan files, add a file to the Review file, print lists and details, view file details, view the Analyte table, and modify scan options.

Scan Files Add to Review F	ile
Print List Print Details	
File Details Analyte Table Scan Options	
Exit	Ctrl+X

Figure 4.5: The shortcut menu available in the Scan Files dialog.

Scanning Files from the Shortcut Menu

You can use the shortcut menu to scan files, add them to the review file, view and print information, and other tasks.

To scan files:

1. Use the Folders pane to locate instrument data files.

Right-click in the Data Files pane, and click Scan Files from the shortcut menu.

2. If the New Analytes Found dialog appears, click Yes to update the Analyte table with new analytes.

Adding Files to the Review File

To add files to the Review file:

- 1. Select one or more files to save to the Review file. Use the **Alt** or **Shift** keys to select multiple files.
- 2. Click the save button in the tool bar or right-click in the Data Files pane, and then click Add to Review File.

This will only save the results to the Main Interface screen. From the Main Interface screen you must then save them to the existing or a new review file (See page 14, "Using the File Menu").

Printing a Data Files List

You can print a list of all the files shown in the Data Files list. A Data Files list contains the name of all the files in a specific directory. It lists the operator, attention level, status, path, instrument and sample ID.

Mint Miner 1.1 Directory Scan: C:\MINTMI~1\XMPLDATA\GC									
Level	Status	Code	Operator	Instrument	Sample ID				
Sean File Path: C: WINTMI-ILXMPLDATAIGCISMPLO0.D Original Path: C: IDATAISAMPLESECGCISMPL00.DIFIDIACH									
ō	A vailable	2	CQL	GC #6	b texmn std (50 ng #12345)				
		IMI~ILXMPLDATAIGC ISAMPLESIEQGCISMI							
0	A vailable		CQL	GC #6	SAMPLE 15(5 mL)				
		IMI~ILXMPLDATAIGC ISAMPLESIEQGCISMI							
0	A vailable		CQL	GC #6	RINSE (5 mL)				

Figure 4.6: A sample report of the Print List command.

To print a list:

- 1. Right-click in the Data Files pane.
- 2. From the shortcut menu, click Print List.
- 3. When the Preview window opens, click Print to generate a hard copy of the report.

Printing File Details

You can print the details that are shown when you view File Details. Information like the path, attention level, alert codes, status, operator initials, instrument, reviewer comments and sample ID.

Note: You can only select one file at a time to print the file details.

I~1\XMPLDATA\GC\SM	PL15.D		
0	Operator:	CQL	
A vailable	Instrument:	GC #6	
	Sample ID:	SAMPLE 01 (1000x) (SuL)	
	0	Available Instrument:	0 Operator: CQL A vailable Instrument: GC #6

Figure 4.7: A sample of the type of details shown on the Details report.

To print file details:

- 1. Select a file from the Data Files list in the Scan Files dialog.
- 2. Right-click to open the shortcut menu.
- 3. Click Print Details to open the Print Preview window.
- 4. Click Print to generate a hard copy of the report.

Both of these reports are discussed in further detail in Chapter 5 – Viewing & Printing Results.

Viewing File Details

You can view the details and scan results of an instrument file.

To view file details with the shortcut menu:

- 1. Select a file from the Data Files list in the Scan Files dialog.
- 2. Right-click and click File Details from the shortcut menu.
- 3. Click on a tab to review the data associated with it.

File Details are discussed in further detail in Chapter 5 – Viewing & Printing Results.

Viewing the Scan Options and Analyte Table

You can view both the Scan Options and Analyte table using the shortcut menu in the Scan Files dialog. Both of these screens are discussed in further detail in Chapter 3 – Using Mint Miner.

To view the Analyte table or Scan Options:

- 1. Right-click inside the Data Files pane in the Scan Files dialog.
- 2. From the shortcut menu, click Analyte Table or Scan Options.

Scan Automation

It is advised that each a separate review file (*.mdb) is created for each instrument sequence (one day of data). However, the user may desire to scan large amounts of data spanning multiple days and instruments. This can be very time consuming to scan each sequence, save the review file and then move on to the next set of data. Mint Miner now offers automated scanning of multiple sequence folders. After setting up an automation schedule in a specified Excel file, all the user has to do is start the automated scanning and walk away.

Setup Automation Schedule

1. To set up an automated scan, from the Scan Files dialog select Scan from the menu then Setup Automation Schedule. This will either open the existing Excel file used for automated data scanning or create a new Excel file if one does not already exist.

🛆 Mint Miner 2.5.7 - Scan Files				
File Scan				
🗐 🚍 Scan Data	💌 崔 TP Target		🗊 🗖 🔳	🕾 🖪 日 :
Fold Run Automation Schedule	Data Files			
Setup Automation Schedule	Status Level C	ode File	Operator Inst	Sample
🔄 🔄 MintMinerDemoData	Tune	d011797d.d	BP h5.i	DFTPP STD S12
🔄 Target	Audit Only	dftpp288.m		
🚔 011796A.B	Available	s011796g.d	BP h5.i	SSTD050 S0111
📄 D011797D.D	Available	s011796h.d	BP h5.i	SSTD020 S0117
🔲 dftpp288.m	Available	s011796i.d	BP h5.i	SSTD080 S1208
5011796G.D	Available	s011796j.d	BP h5.i	SSTD120 S1208

2. Enter desired Instrument, Instrument Data Folder, Min Miner result database name and configuration file (optional).

2	А	R.	C	n
1	INSTRUMENT	INSTRUMENT DATA FOLDER	MINT MINER RESULT DB LOCATION	CONFIGURATION FILE
2	HP Enviroquant	C:\MintMinerDemoData\Enviroquant\CURVE	C:\MintMinerData\20101012_Curve.mdb	VOAs.CFG
£.	HP Enviroquant	C:\MintMinerData\Enviroquant\GCM57	C:\MintMinerData\20101012_GCM57.mdb	VØAs.CFG
L.	TP Target	C:\MintMinerDemoData\Target\011796A.B	C:\MintMinerData\20101012_Target.mdb	TargetVOAs.CFG
	1.542			
and the second				
1				
Í.				
0				

- INSTRUMENT There are only four valid instrument names corresponding to the instrument name selection on the Scan dialog. These names need to be exact. The 2nd sheet, Instr Type, in the Excel file lists the valid instrument names.
- INSTRUMENT DATA FOLDER This is the location of the instrument data. Hence the name *Instrument Data Folder*.
- MINT MINER RESULT DB LOCATION This is the filename and location that you would save Mint Miner results to after performing a scan.
- CONFIGURATION FILE Mint Miner allows the user to specify, save and use multiple sets of scan option settings. These settings are saved as *.CFG files in the same directory as the MintMiner.exe file. (See the Mint Miner help file for more information on Scan Option configuration files.) You may specify a configuration file name. If left blank, the current scan options will be used. Note: If only the first row in the example above had the CONFIGURATION FILE of "VOAs.CFG" and the rest were blank, "VOAs.CFG" scan option would be used for all scans in the schedule.

3. Save and close the automation schedule. Do not rename the Excel file. Mint Miner will always look for MMAutomation.xls in the same location as the MintMiner.exe file.

Run Automation Schedule

Once the automation schedule Excel file has been completed, an automated scan may be started by selecting **Scan** from the menu then **Run Automation Schedule**.

Chapter 5 – Viewing & Printing Results

Viewing File Details

After you scan a data file or open a reviewer file containing instrument data files, you can view the details of one or more files in the list. The Details are shown in a separate dialog box with four or more tabs:

- Flagged Events Provides a list of analytes, alert codes, events, time of event occurrence and the alert description.
- All Events Contains a list of each event that occurred during the instrument file generation.
- Quantitation Report Displays this report. You can use the slider to review the entire contents of this report. Methods have other reports besides the Quantitation Report; each will have its own tab.
- Reviewer Notes Use this tab to enter your own notes.

To view file details:

1. From the View menu, click File Details, or click if from the toolbar, or double click on the data file record in either the scan files dialog or the main interface.

View	
Sca	an Files
Bał	ær Plot
File	Details
	alyte Table an Options

2. Click on any tab to review your results.

-Original File: D:\HPCHEM\1\DATA\090104\27987ST.D Acquired: 9/1/2004 10:25:00 AM Operator: BGL/MFF Instrument: MSD #1 Sample: 8260 STD 0.5PPB S			10412738751.0	Status: Scanned Cont. Attention level: 19 Tune Alert Codes: M(2), QD(1), MZ(2), AD(1) Method			
				Print Flag	ged Eivents		
lag	ged Events All Events G	luant Re	port REVIEWER NO	TES			
#	Analyte	Code	Event		Time	Alert	
1	DI ISOPROPYL ETHER	м	Changed peak amour ISOPROPYL ETHER 0.455225UG/L to 0.5	from	Sep-01-04 10:59:43	Manual integration (non-specific)	
2	BROMOMETHANE	M	Changed peak amount for BROMOMETHANE from 2.28302UG/L to 0.455972UG/L		Sep-03-04 08:43:53	Manual integration (non-specific)	
3	EPATEMP.TXT	QD	Time travel		Aug-18-05 11:07:02	Method Last Update date after Quantitation date	
4	DI ISOPROPYL ETHER	мz	Manually integrated in but no 'm' flag in the E		Sep-01-04 10:59:43	Manual integrated but indicator missing from either the quant report or audit file	
5	BROMOMETHANE	MZ	Manually integrated in but no 'm' flag in the E		Sep-03-04 08:43:53	Manual integrated but indicator missing from either the quant report or audit file	
6	AUDIT.TXT	AD	AUDIT.TXT file date 10:52:00 AM; epatem		Mar-21-06	Audit file last saved >30 seconds after other files i	

Figure 5.1: The File Details option generates this dialog box. You can click on any tab to review its contents.

The contents of any tab may be printed using the print button located in the center of the form.

The file details form has several check boxes in the upper right hand corner. If the scan recognized the file as a tune or a method, the appropriate box will automatically be checked. If the file is from a continuing calibration, the user may check the Cont. Cal box. This value will be applied to the "Scan Summary Sub Report" described on page 35.

Note: You can click on the title of any column to sort the tab contents in ascending or descending order by the column selected.

The Baker Plot

A timeline of events and alerts for multiple samples may be displayed and printed using the Baker Plot utility. All of the samples selected from the sample list will be displayed on the plot.

1. Use the che to filter res	······································
	Click on a sample number to display sample details 4. Use this check box to group events by one minute intervals
🙏 Baker Plot	
- Include	Minted Alerts 🔽 Quantitations 🔽 QDel 🔽 Reports 🔽 Other Print
Method Only:	Method Save Cal Point Update F Method Edit One minute resolution
Mod Date Sample	11/26/1997 11/26/1997 11/26/1997 11/26/1997 11/26/1997 11/26/1997 11/26/1997 11/26/1997 11/26/1997 11/26/1997 🦰 18:52:00 AM 10:53:00 AM 10:54:00 AM 10:55:00 AM 10:56:00 AM 10:57:00 AM 10:58:00 AM 11:05:00 AM 11:06:00 AM
8260.M	
VSTD002.D /	Que M
VSTD005.D	
VSTD010.D	Qut M
VSTD020.D	Qut X
VSTD050.D	Qut M M
VSTD100.D	Ont X
VSTD200.D	Quit 34
	×
•	
Totals: 8 Samples	35 Event Date/Times, 94 Events Displayed

Figure 5.2: The Baker Plot.

Events and alerts may be included or excluded using the check boxes on the top of the form. Clicking on an event or alert will display all alerts and events for that time. Clicking on a sample number will bring up the file details for that sample. When method files or samples of analysts with over zealous manual integrations are being displayed, the number of event times can become quite large. In such cases, use the One Minute Resolution check box to group events within one minute intervals.

To view the baker plot:

- 1. Select one or more files from the Data Files list in the main interface.
- 2. On the main menu, select View then Baker Plot or click the Baker Plot button 🔛 on the toolbar.

Printing of the plot is limited to two font sizes and the option to include color. Large size printing was included as an option so the plot may be more easily displayed on a wall. Due to the level of complexity required to export the plot to a printer, only 8.5" X 11" paper is supported and only 30 samples may be printed using the normal size printing and 12 samples using the large size.

Reports

Review List

The Review List is a printed view of the contents of the .mdb file. Its contents correspond to those shown in the main interface. You can view the attention level, file status, alert codes, operator initials, instrument code and sample information about each file. In addition, this report also displays the scanned and original file paths of each instrument file.

Mint Mi	ner 1.1 Re	view File: GCM 86.mdb (L	isa Lowell)		15 Nov 2002 14:52
Level	Status	Code	Operator	Instrument	Sample ID
		finer WIMPLDATAUMSISMPLOI.D SAMPLESIEQMSISMPLOI.D			
3	Scanned	TA(1)	CQL	GCMS6	SONG BFB (SONG BFB TUNE EVALUATION
ACCENT & LLC		finer VXM PL DA TAUM SI SM PL 03. D SAMPLE SIEQM SI SM PL 03. D			
9	Scanned	MP(3), M(3), MT(1), MR(1), MM(1)	CQL	GCMS6	20ng #12345 (VOA CAL #2)
		Ainer VXM PL DA TAUM SI SM PL 05. D SAM PLE SIEQM SI SM PL 05. D			
9	Scanned	TA(1), TF(2)	CQL	GCMS6	4-BFB tune (50 ng BFB)
Notant a tro		finer VXM PL DA TAVM SI SM PL 08. D SAMPLE SIEQM SISM PL 08. D			
9	Reviewed	MC(3), MR(1), MM(1)	CQL	GCMS6	LCS QC (250ng)
		finer VXM PL DA TAUM SI SM PL 10. D SAMPLE SIEQM SI SM PL 10. D			
14	FLAGGED	MB(2), MR(3), MM(1)	CQL	GCMS6	20ng #12345 (CCAL)

Figure 5.3: The Review List in preview mode.

To view and print the Review List:

1. From the Print menu, click Review List.

Print	
Review List	Ν
Detail Report	N
Group Audit	•
Setup	

2. In the Print Preview dialog, click Print 🔤 to generate a copy of the previewed report.

Detail Report

You can preview or print the Detail Report. This report contains a list of alert codes generated by the instrument, a list of averages generated during testing and a pass/fail result, and other information about the sample.

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evel:	3			Open	rator:	CQL	
tatus:	Scanned			Inst	ument:	GCMS6	
lerts:	TA(1)			Sam	ple ID:	SONG BFB (SONG	BFB TUNE EVALUATION
leviewer (Comments :						
lert Cod	es detected in this	file					
2/12/00 13 TA = Tur	:49 ne spectrum obtained	by spectral a	veraging [3 p	-	information:	Average of 6.778	to 6.837 min.
		BE	7B				
Acq On Sample Misc	e : 50NG BFI : 50NG BFI egration Para	2000 1:4 3 3 TUNE EV# ns: events	19 pm ALUATION s.e	01.D F.M (Chems	Ins Mul	tiplr: 1.00	
Spectr	um Information	n: Average	e of 6.778	8 to 6.837	'min.		
Targ Mas		Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail	
	95 95 95 174 95 174	15 30 100 5 0.00 50 5 95 5	40 60 100 9 2 100 9 101	24.4 51.5 100.0 8.5 0.0 70.9 7.8 99.4 7.2	71702 151256 293837 25037 0 208413 16247 207174 15011	PASS PASS PASS PASS PASS PASS PASS PASS	

Figure 5.4: An example of the Detail Report generated in Mint Miner.

To print or preview the Detail Report:

1. In the Mint Miner main dialog, select a data file from the list.

👗 Mint Mine	er 2.00	0 (1208) - GCMS6.m	lb				
File Print Vi	rint View Help						
🛛 🖻 🖬	8	à. 📽 📰 🖬 😹	Q X				
Status	Level	Code	File	Operator	Inst	Sample	Misc
Scanned	005	TA(1)	C:\Program Files\MintMiner\XMPLDATA\MS\SMPL01.D	CQL	GCMS6	50NG BFB	50NG
C Scanned	005	M(1),QM(2)	C:\Program Files\MintMiner\XMPLDATA\MS\SMPL02.D	CQL	GCMS6	25ng #12345	VOA (
FLAGGED	022	MP(3),M(3),MT(1),MR(1)	C:\Program Files\MintMiner\XMPLDATA\MS\SMPL03.D	CQL	GCMS6	20ng #12345	VOA (
Scanned	004	MC(1),M(1)	C:\Program Files\MintMiner\XMPLDATA\MS\SMPL04.D	CQL	GCMS6	20ng #12345	VOA (

Figure 5.5: The Mint Miner main dialog list.

2. From the Print menu, click Detail Report.



3. Click the Printer button after you preview the report, to generate a hard copy of the Detail report.

Group Audit Reports

Two group audit reports have been added that combine events and alerts from multiple samples. The Group Alerts report combines only the alerts in chronological order from all of the samples selected at the time the report was executed. The Group All report combines both the events and alerts.

Scan Summary Sub Report

A sub report has been added to the end of all reports that provides a scan summary of all samples in the report.

otal Files Scanned	9	Beginning Analyzed Date	9/1/2004 10:25:00AM
Methods	0	Ending Analyzed Date	9/1/2004 4:42:00PM
Sam ples	7	Analyzed Range	6 hours, 17 minutes
Tunes	0	Greatest Time Between Tunes	N/A
CCCs	2	Greatest Time Between CCCs	5 hours, 35 minutes

Figure 5.6: The scan summary report.

This summary is particularly useful when looking at an analytical batch or a subset thereof. This report contains the following information:

- 1. Number of files scanned, which is further broken down by methods, tunes, CCCs and samples. With the exception of CCCs, all of the file types are determined by Mint Miner during scanning. A sample that is neither a method nor a tune may be marked as a CCC by the user in the file details form. See "Viewing File Details" on page 30.
- 2. The beginning and ending analyzed date applies to only non-method files scanned. Likewise the calculated Analyzed Range is based on these two dates. An analyzed range encompassing multiple days would invalidate portions of this sub report.
- 3. If there are two or more tunes in the scan, the maximum date between consecutive tunes is calculated.
- 4. If there are two or more CCCs in the scan, the maximum date between consecutive CCCs is calculated.
- 5. Finally, there is a count of all distinct operator, instruments and method last updated times for all samples scanned. The number of distinct method last updated dates can be used as an indicator of calibration adjustments for specific samples or as an indicator of combo tweaking between samples and calibrations if the selected sample range is between CCCs.
- 6. Finally, there is a count of all distinct operators and distinct instruments for all samples scanned. Multiple instruments would invalidate the usefulness of this sub report.

Chapter 6 – Program Updates

Users with valid maintenance agreements can automatically download updates from Mint Miner. Mint Miner 2.0 or later must be installed before the online updates function can be utilized.

File	Туре	New Version	Your Version	Status
groupaudit.rpt	Mint Miner	Nov-14-05 14:	Nov-07-05 15:	Need Update
groupauditall.rpt	Mint Miner	Nov-14-05 14:	Nov-07-05 15:	Need Update
MintMiner.exe	Mint Miner	Nov-18-05 09:	Nov-14-05 08:	Need Update
MintMiner2.exe	Mint Miner	Nov-29-05 08:	Nov-14-05 10:	Need Update
Check for	11-4-	ite Local		
	Linda	re Local		
Updates		mputer		

Figure 6.1: The Scan Options dialog lets you change options that will affect scan results.

To download the latest Mint Miner files:

- 1. Select *Help/Updates (Internet)* from the Mint Miner menu.
- 2. Click on Check for Updates to display a list of the latest Mint Miner components.

3. If any files are found then click on Update Local Computer to download all new items to your computer.

4. The application will then ask you to restart Mint Miner for the update to take effect.

Note: To use the Program Updates feature, you may be required to re-enter your Mint Miner registration code

Customer Support can be contacted at:

1.877.776.6486, X360 or submit a ticket online at www.promium.com/support