

# Printing a Report

The System 824 allows you to print a report from data collected during a measurement. This chapter will discuss the following aspects of printing reports:

- Connecting the 824 to a Serial Printer
- Printing Reports
- Defining and Printing Tailored Reports
- Printing a Custom Report

While most users will normally print 824 data using a computer, it is possible to print both graphical and tabular data reports directly from the 824 to virtually any serial printer. Printouts range from high resolution presentation quality reports when printing to a laser printer because of the instrument's PDL-3 (page description language) capabilities, to draft-quality tabular data reports that can also be printed to a dot matrix printer.

## Connecting the 824 to a Serial Printer

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*Another cable is available for certain printers that have a 9-pin female "D" connector (CBL091).*

*If your printer does not have either of these connectors, it is likely not a serial printer. Do not attempt to connect the 824 as damage may result.*

Make sure the System 824 and your printer are turned off before initiating any of the following steps.

- Step 1** Connect the provided (CBL002) serial cable's 8-pin mini DIN connector to the System 824 serial port.
- Step 2** Connect the serial cable's 25-pin male "D" connector to your printer's serial port.

**Step 3** Turn on your printer and the System 824.

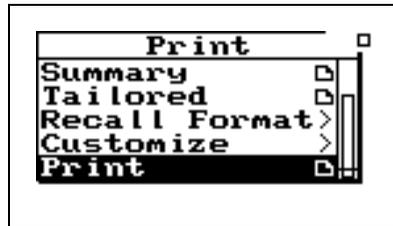
## Printing Reports

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**Step 1** Press the  Data key and use the **Recall Files** menu to recall the measurement record that you want to print. You may not need to recall a file if you want to print something in memory that has not been stored.

*Depending on whether you have selected an SSA, ISM, LOG, or RTA instrument from the Setup menu you will have a different Print menu available. The screen shown is for the SSA instrument.*

**Step 2** Press the  Print key. The following screen appears:



*The TAL and FFT instruments do not generate any reports.*

The Print menu provides different options depending on instrument type.

The following table shows the menu options for the SSA, ISM, LOG and RTA Print menus:

Menu Item	Options/Description	Available To:
Status	[shows the status of the printing job]	SSA, ISM, LOG, RTA
Settings	Printer Type Printer Baud Flow Control	SSA, ISM, LOG, RTA
SPL Report	[prints an SPL report]	ISM
Summary	[prints a summary report]	SSA, LOG, RTA
Tailored	[prints the tailored report]	SSA, LOG

Recall Format	Summary Tailored All, short All, long None enabled	SSA, LOG
Customize	[allows you to select the print options for an instrument ID and customize your reports - see the section on “Printing a Custom Report”]	SSA, LOG, RTA
Print	[prints the report]	SSA, ISM, LOG, RTA

**Step 3** Use the ▲ and ▼ arrow keys to highlight Settings, then press the ► arrow key or ✓ Check key to select it. The following menu appears:

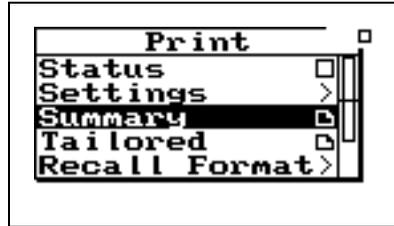


*Depending on your printer configuration you may have to modify the Printer Settings for Printer Baud Rate and Flow Control.*

Use the table below to set up the printer settings by using the ▲ and ▼ arrow keys to highlight “Printer Type”, “Printer Baud”, and “Flow Control” and then press the ✓ Check key to select the correct option for each.

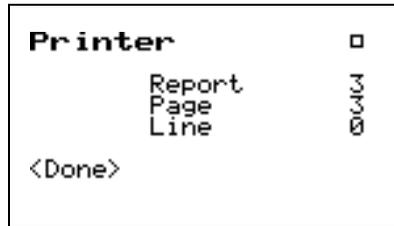
Menu Item	Options
Printer Type	ASCII, Epson, IBM, HPJet, HPLzr
Printer Baud	300, 1200, 2400, 9600, 19200, 28800, 57600, 115 K
Flow Control	None, Hdwr, XOff, Both

- Step 4** Use the  arrow key to return to the main **Print** menu. You will notice that there is a paper page icon  next to the “Summary” menu item. This means that a report will be printed by highlighting “Summary” and pressing the Check  key.



*The title printed on your report will correspond to the Title setting you have configured in the Setup menu for the selected ID.*

- Step 5** Your Report will now begin printing and the Status screen will appear.



Press the  check key to abort the printing job.

# Defining and Printing Tailored Reports

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*In the System 824, Tailored Reports are available to the SSA and LOG instruments.*

*Selecting "Tailored Report" under the Print menu copies the report settings under "Define Report" from the Setup Menu for the SSA and LOG instruments for printing.*

With the System 824, a tailored report setting for each SSA or LOG instrument ID can be created (i.e. each user can set up their own user-defined print settings). Therefore, each SSA or LOG instrument ID can have its own pre-set customized report settings. This section discusses how to define and print tailored reports for the SSA and LOG instruments.

The following table shows the available settings for a Tailored report for the SSA instrument:

Menu Item	Options
Unformatted	No Yes
Data Report	No Yes
Setup Report	No Yes
Intv Report	No Short Long
History Report	No Yes

The settings for a LOG instrument Tailored report are shown under "Tailored Report Template (LOG instrument)" on page 8-13.

The following provides an example of how to define and print a tailored report:

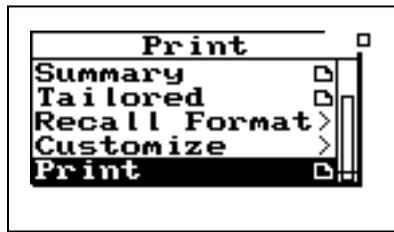
- Step 1** Press the  Setup key to bring up the *Setup* menu. Highlight the *Edit Settings* menu item and press  arrow key or the  Check key to select it.



- Step 2** Using the  and  arrow keys, highlight the *Advanced* item, then select it using the  arrow key or the  Check key. The following screen appears:



- Step 3** Using the  and  arrow keys, highlight the *Define Report* item, then select it using the  arrow key or the  Check key. The following screen appears:

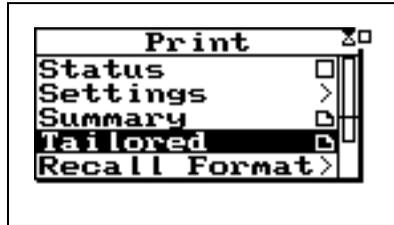


- Step 4** Use the  and  arrow keys to scroll through the available report settings. Use the  Check key to select and change the options for each type of report.

**Step 5** Press the  Print key to bring up the **Print** menu.

*For your report to print properly, your printer must be connected as described in "Connecting the 824 to a Serial Printer" on page 8-1 and configured as described in "Printing Reports" on page 8-2.*

**Step 6** Using the  and  arrow keys highlight the **Tailored** item, then select it using the  arrow key or the  Check key and your "Tailored" report will begin printing.



*NOTE: Make sure you save your Instrument ID before you change to a different Instrument ID, otherwise all your newly defined tailored print settings will be lost.*

## Using the Recall Format (SSA and LOG instruments only)

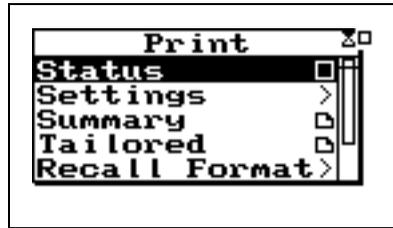
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The Recall Format menu allows you to customize the **Summary** report or the **Tailored** report and gives you two more customized reports called **All, Long** and **All, Short**. When the summary report is recalled, the Customize menu is changed to reflect those parameters which will be printed in the summary and tailored reports.

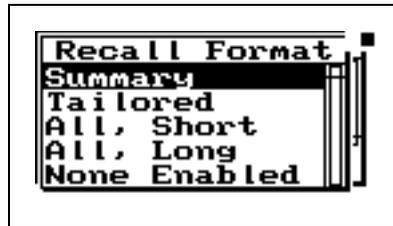
The Customize menu is formatted with all of the parameters for each report selected in the Recall Format menu. You can choose to print the default parameters that are recalled for each report or you can go into the Customize menu and make further changes to the parameters.

Before beginning to Print, always recall the file and select the data that you would like to print. The following shows how to print from the Recall Format:

- Step 1** To print from the Recall Format menu press the  PRINT key. The following screen appears:



- Step 2** Use the  and  arrow keys to highlight the Recall Format menu. Press the  key and the following screen appears:



- Step 3** Use the  and  arrow keys and select the report that you want to print (Summary, Tailored, All, Short, All, Long, or None Enabled).

## Default Settings Values for the Recall Format Reports

The following tables show the default settings for each of the templates available from the Recall Format menu (Summary, Tailored, All, Long, All, Short, and None Enabled).

### Summary Report Template

This template shows the default settings for the Summary Report. The Summary Report includes the Data Report and the Log Report.

After selecting the template, you can modify it as explained in "Printing a Custom Report" on page 8-23.

## Summary Report Template (SSA instrument)

Report Settings	Lower Level Report Settings	Description
Unformatted [No]		A dump of all <b>Read, Query</b> and <b>Interval</b> remote commands. Multiple values are comma delimited.
Data Report [Yes]		This shows general information such as Leq, SEL, Dose, Projected Dose, Lmin, Lmax, Peak, Ln's, exceedance, and calibration logs.
Setup Report [No]		Print the settings and their values for the SSA instrument.
Intv Report [No]		Leq, SEL, Lmin, Lmax, Peak, Uwpk, exceedances, time, date, and duration in the short report. The Long reports adds the Ln values and Spectral LNs for the Interval.
Hist Report [No]		Leq for each time history period.
Print Range	Intv Report [No]	You can customize the interval report by choosing the long or short report.
	Lowest Record (00000)	Selects the lowest interval record to be printed.
	Highest Record (65535)	Selects the highest interval record to be printed.
	Hist Report [No]	You can customize the time history report by choosing the long or short report.
	Lowest Record (00000)	Selects the lowest time history record to be printed.
	Highest Record (>99999)	Selects the highest time history record to be printed.
Histograms	SPL Histogram [No]	Prints SPL histogram and overall Spectral LN report.
	Lowest Level (045)	Selects the lowest SPL histogram level to be printed.
	Highest Level (095)	Selects the highest SPL histogram level to be printed.
	Resolution (5.0)	Selects the SPL histogram resolution
	Pk-1 Histogram [No]	You can customize the Peak1 Histogram report by choosing the long or short report.
	Lowest Level (110)	Selects the lowest Peak1 histogram level to be printed.
	Highest Level (160)	Selects the highest Peak1 histogram level to be printed.
	Resolution (5.0)	Selects the Peak1 histogram resolution
	Pk-2 Histogram [No]	You can customize the Peak2 Histogram report by choosing the long or short report.
	Lowest Level (070)	Selects the lowest Peak2 histogram level to be printed.

Summary Report Template (SSA instrument)		
Histograms	Highest Level (120)	Selects the highest Peak2 histogram level to be printed.
	Resolution (5.0)	Selects the Peak2 histogram resolution

Summary Report Template (LOG instrument)		
Report Settings	Lower Level Report Settings	Description
Unformatted [No]		A dump of all <b>Read</b> , <b>Query</b> and <b>Interval</b> remote commands. Multiple values are comma delimited.
Data Report [Yes]		This shows general information such as Leq, SEL, Dose, Projected Dose, Lmin, Lmax, Peak, Ln's, exceedance, and calibration logs.
Log Report [Yes]		The run/stop log and with the date and time of each run/stop.
Setup Report [No]		Print the settings and their values for the LOG instrument.
SPL Histogram [No]		Shows 6 Ln values, Lmax, Lmin, and a bargraph of the level distribution.
Excd Report [No]		Lists Number of Record, Exchange Rate, Minimum Duration Time, Period, Mode, Start Time, Leq, Max, Peak, Overloads, Unweighted Peak, Duration, SEL, and Spectrum.
Intv Report [No]		Leq, SEL, Lmin, Lmax, Peak, Uwpk, exceedances, time, date, and duration in the short report. The Long reports adds the Ln values for the Interval period.
Hist Report [No]		Leq for each time history period.
Daily Report [No]		Lists date, duration, Leq, Peak, Uwpk, Ldn, Lmax, CNEL, and Lmin.
Print Range	Excd Report [No]	You can customize the interval report by choosing the long or short report.
	Lowest Record (00000)	Selects the lowest exceedance record to be printed.
	Highest Record (65535)	Selects the highest exceedance record to be printed.
	Intv Report [No]	You can customize the interval report by choosing the long or short report.
	Lowest Record (00000)	Selects the lowest interval record to be printed.
	Highest Record (65535)	Selects the highest interval record to be printed.
	Hist Report [No]	You can customize the time history report by choosing the long or short report.
	Lowest Record (00000)	Selects the lowest time history record to be printed.
	Highest Record (>99999)	Selects the highest time history record to be printed.

## Summary Report Template (LOG instrument)

Histograms	SPL Histogram [No]	You can customize the SPL Histogram report by choosing the long or short report.
	Lowest Level (045)	Selects the lowest SPL histogram level to be printed.
	Highest Level (095)	Selects the highest SPL histogram level to be printed.
	Resolution (5.0)	Selects the SPL histogram resolution
	Pk-1 Histogram [No]	You can customize the Peak1 Histogram report by choosing the long or short report.
	Lowest Level (110)	Selects the lowest Peak1 histogram level to be printed.
	Highest Level (160)	Selects the highest Peak1 histogram level to be printed.
	Resolution (5.0)	Selects the Peak1 histogram resolution
	Pk-2 Histogram [No]	You can customize the Peak2 Histogram report by choosing the long or short report.
	Lowest Level (070)	Selects the lowest Peak2 histogram level to be printed.
	Highest Level (120)	Selects the highest Peak2 histogram level to be printed.
	Resolution (5.0)	Selects the Peak2 histogram resolution

### Tailored Report

This template shows the default settings for the Tailored Report. The Tailored Report uses the settings from the “Define Report” menu under the  Setup key. This allows you to create a custom report for any SSA or LOG instrument ID.

The Tailored Report includes the Data Report, Log Report, Setup Report, Interval Report (Short), Exceedance Report, and the Daily Report.

After selecting the template you can modify it as explained in "Printing a Custom Report" on page 8-23.

Tailored Report Template (SSA instrument)		
Report Settings	Lower Level Report Settings	Description
Unformatted [No]		A dump of all <b>Read</b> , <b>Query</b> and <b>Interval</b> remote commands. Multiple values are comma delimited.
Data Report [Yes]		This shows general information such as Leq, SEL, Dose, Projected Dose, Lmin, Lmax, Peak, Ln's, exceedance, and calibration logs.
Setup Report [Yes]		Print the settings and their values for the SSA instrument.
Intv Report [Short]		Leq, SEL, Lmin, Lmax, Peak, Uwpk, exceedances, time, date, and duration in the short report. The Long reports adds the Ln values and Spectral LNs for the Interval period.
Hist Report [No]		Leq for each time history period.
Print Range	Intv Report [Short]	You can customize the interval report by choosing the long or short report.
	Lowest Record (00000)	Selects the lowest interval record to be printed.
	Highest Record (65535)	Selects the highest interval record to be printed
	Hist Report [No]	You can customize the time history report by choosing the long or short report.
	Lowest Record (00000)	Selects the lowest interval record to be printed.
	Highest Record (>99999)	Selects the highest interval record to be printed
Histograms	SPL Histogram [No]	Prints SPL histogram and overall Spectral LN report.
	Lowest Level (045)	Selects the lowest SPL histogram level to be printed.
	Highest Level (095)	Selects the highest SPL histogram level to be printed.
	Resolution (5.0)	Selects the SPL histogram resolution
	Pk-1 Histogram [No]	You can customize the Peak1 Histogram report by choosing the long or short report.

Tailored Report Template (SSA instrument)		
Histograms	Lowest Level (110)	Selects the lowest Peak1 histogram level to be printed.
	Highest Level (140)	Selects the highest Peak1 histogram level to be printed.
	Resolution (5.0)	Selects the Peak1 histogram resolution
	Pk-2 Histogram [No]	You can customize the Peak2 Histogram report by choosing the long or short report.
	Lowest Level (070)	Selects the lowest Peak2 histogram level to be printed.
	Highest Level (120)	Selects the highest Peak2 histogram level to be printed.
	Resolution (5.0)	Selects the Peak2 histogram resolution

Tailored Report Template (LOG instrument)		
Report Settings	Lower Level Report Settings	Description
Unformatted [No]		A dump of all <b>Read</b> , <b>Query</b> and <b>Interval</b> remote commands. Multiple values are comma delimited.
Data Report [Yes]		This shows general information such as Leq, SEL, Dose, Projected Dose, Lmin, Lmax, Peak, Ln's, exceedance, and calibration logs.
Log Report [Yes]		The run/stop log and with the date and time of each run/stop.
Setup Report [No]		Print the settings and their values for the LOG instrument.
SPL Histogram [No]		The 6 Ln values, Lmax, Lmin, and a bargraph of the level distribution.
Intv Report [Short]		Leq, SEL, Lmin, Lmax, Peak, Uwpk, exceedances, time, date, and duration in the short report. The Long reports adds the Ln values for the Interval period.
Hist Report [Yes]		Leq for each time history period.
Excd Report[Short]		Lists number of Record, Exchange Rate, Minimum Duration Time, Period, Mode, Start Time, Leq, Max, Peak, Overloads, Unweighted Peak, Duration, SEL, and Spectrum.
Daily Report[Short]		Lists date, duration, Leq, Peak, Unweighted Peak, Ldn, Lmax, CNEL, and Lmin.

Tailored Report Template (LOG instrument)		
Print Range	Intv Report [Short]	You can customize the interval report by choosing the long or short report.
	Lowest Record (00000)	Selects the lowest interval record to be printed.
	Highest Record (65535)	Selects the highest interval record to be printed.
	Hist Report [Yes]	You can customize the time history report by choosing the long or short report.
	Lowest Record (00000)	Selects the lowest time history record to be printed.
	Highest Record (>99999)	Selects the highest time history record to be printed.
Histograms	SPL Histogram [No]	You can customize the SPL Histogram report by choosing the long or short report.
	Lowest Level (040)	Selects the lowest SPL histogram level to be printed.
	Highest Level (090)	Selects the highest SPL histogram level to be printed.
	Resolution (5.0)	Selects the SPL histogram resolution
	Pk-1 Histogram [No]	You can customize the Peak1 Histogram report by choosing the long or short report.
	Lowest Level (110)	Selects the lowest Peak1 histogram level to be printed.
	Highest Level (140)	Selects the highest Peak1 histogram level to be printed.
	Resolution (5.0)	Selects the Peak1 histogram resolution
	Pk-2 Histogram [No]	You can customize the Peak2 Histogram report by choosing the long or short report.
	Lowest Level (070)	Selects the lowest Peak2 histogram level to be printed.
	Highest Level (120)	Selects the highest Peak2 histogram level to be printed.
	Resolution (5.0)	Selects the Peak2 histogram resolution

### All, Short Report

This template shows the default settings for the All, Short Report. The All, Short Report prints all of the reports. Those reports with a Short version are printed in the short form.

After selecting the template you can modify it as explained in "Printing a Custom Report" on page 8-23.

## All, Short Report Template (SSA instrument)

Report Settings	Lower Level Report Settings	Description
Unformatted [No]		A dump of all <b>Read, Query</b> and <b>Interval</b> remote commands. Multiple values are comma delimited.
Data Report [Yes]		This shows general information such as Leq, SEL, Dose, Projected Dose, Lmin, Lmax, Peak, Ln's, exceedance, and calibration logs.
Setup Report [Yes]		Print the settings and their values for the SSA instrument.
Intv Report [Short]		Leq, SEL, Lmin, Lmax, Peak, Uwpk, exceedances, time, date, and duration in the short report. The Long reports adds the Ln values and Spectral LNs for the Interval period.
Hist Report [Yes]		Leq for each time history period.
Print Range	Intv Report [Short]	You can customize the interval report by choosing the long or short report.
	Lowest Record (00000)	Selects the lowest interval record to be printed.
	Highest Record (65535)	Selects the highest interval record to be printed.
	Hist Report [Yes]	You can customize the time history report by choosing the long or short report.
	Lowest Record (00000)	Selects the lowest time history record to be printed.
	Highest Record (>99999)	Selects the highest time history record to be printed.
Histograms	SPL Histogram [Yes]	Prints SPL histogram and overall Spectral LN report.
	Lowest Level (045)	Selects the lowest SPL histogram level to be printed.
	Highest Level (095)	Selects the highest SPL histogram level to be printed.
	Resolution (5.0)	Selects the SPL histogram resolution
	Pk-1 Histogram [Yes]	You can customize the Peak1 Histogram report by choosing the long or short report.
	Lowest Level (110)	Selects the lowest Peak1 histogram level to be printed.
	Highest Level (160)	Selects the highest Peak1 histogram level to be printed.
	Resolution (5.0)	Selects the Peak1 histogram resolution
	Pk-2 Histogram [Yes]	You can customize the Peak2 Histogram report by choosing the long or short report.
	Lowest Level (070)	Selects the lowest Peak2 histogram level to be printed.

All, Short Report Template (SSA instrument)		
Histograms	Highest Level (120)	Selects the highest Peak2 histogram level to be printed.
	Resolution (5.0)	Selects the Peak2 histogram resolution

All, Short Report Template (LOG instrument)		
Report Settings	Lower Level Report Settings	Description
Unformatted [No]		A dump of all <b>Read</b> , <b>Query</b> and <b>Interval</b> remote commands. Multiple values are comma delimited.
Data Report [Yes]		This shows general information such as Leq, SEL, Dose, Projected Dose, Lmin, Lmax, Peak, Ln's, exceedance, and calibration logs.
Log Report [Yes]		The run/stop log and with the date and time of each run/stop.
Setup Report [Yes]		Print the settings and their values for the LOG instrument.
SPL Histogram [Yes]		The 6 Ln values, Lmax, Lmin, and a bargraph of the level distribution.
Intv Report [Short]		Leq, SEL, Lmin, Lmax, Peak, Uwpk, exceedances, time, date, and duration in the short report. The Long reports adds the Ln values for the Interval period.
Hist Report [Yes]		Leq for each time history period.
Print Range	Intv Report [Short]	You can customize the interval report by choosing the long or short report.
	Lowest Record (00000)	Selects the lowest interval record to be printed.
	Highest Record (65535)	Selects the highest interval record to be printed.
	Hist Report [Yes]	You can customize the time history report by choosing the long or short report.
	Lowest Record (00000)	Selects the lowest time history record to be printed.
	Highest Record (>99999)	Selects the highest time history record to be printed.

All, Short Report Template (LOG instrument)		
Histograms	SPL Histogram [Yes]	You can customize the SPL Histogram report by choosing the long or short report.
	Lowest Level (045)	Selects the lowest SPL histogram level to be printed.
	Highest Level (095)	Selects the highest SPL histogram level to be printed.
	Resolution (5.0)	Selects the SPL histogram resolution
	Pk-1 Histogram [Yes]	You can customize the Peak1 Histogram report by choosing the long or short report.
	Lowest Level (110)	Selects the lowest Peak1 histogram level to be printed.
	Highest Level (160)	Selects the highest Peak1 histogram level to be printed.
	Resolution (5.0)	Selects the Peak1 histogram resolution
	Pk-2 Histogram [Yes]	You can customize the Peak2 Histogram report by choosing the long or short report.
	Lowest Level (070)	Selects the lowest Peak2 histogram level to be printed.
	Highest Level (120)	Selects the highest Peak2 histogram level to be printed.
	Resolution (5.0)	Selects the Peak2 histogram resolution

### All, Long Report

This template shows the default settings for the All, Long Report. The All, Long Report prints all of the reports. Those reports with a long version are printed in the long form.

After selecting the template, you can modify it as explained in "Printing a Custom Report" on page 8-23.

All, Long Report Template (SSA instrument)		
Report Settings	Lower Level Report Settings	Description
Unformatted [No]		A dump of all <b>Read</b> , <b>Query</b> and <b>Interval</b> remote commands. Multiple values are comma delimited.
Data Report [Yes]		This shows general information such as Leq, SEL, Dose, Projected Dose, Lmin, Lmax, Peak, Ln's, exceedance, and calibration logs.
Setup Report [Yes]		Print the settings and their values for the SSA instrument.

All, Long Report Template (SSA instrument)		
Intv Report [Long]		Leq, SEL, Lmin, Lmax, Peak, Uwpk, exceedances, time, date, and duration in the short report. The Long reports adds the Ln values and Spectral LNs for the Interval period.
Hist Report [Yes]		Leq for each time history period.
Print Range	Intv Report [Long]	You can customize the interval report by choosing the long or short report.
	Lowest Record (00000)	Selects the lowest interval record to be printed.
	Highest Record (65535)	Selects the highest interval record to be printed.
	Hist Report [Yes]	You can customize the time history report by choosing the long or short report.
	Lowest Record (00000)	Selects the lowest time history record to be printed.
	Highest Record (>99999)	Selects the highest time history record to be printed.
Histograms	SPL Histogram [Yes]	Prints SPL histogram and overall Spectral LN report.
	Lowest Level (045)	Selects the lowest SPL histogram level to be printed.
	Highest Level (095)	Selects the highest SPL histogram level to be printed.
	Resolution (1.0)	Selects the SPL histogram resolution
	Pk-1 Histogram [Yes]	You can customize the Peak1 Histogram report by choosing the long or short report.
	Lowest Level (110)	Selects the lowest Peak1 histogram level to be printed.
	Highest Level (140)	Selects the highest Peak1 histogram level to be printed.
	Resolution (1.0)	Selects the Peak1 histogram resolution
	Pk-2 Histogram [Yes]	You can customize the Peak2 Histogram report by choosing the long or short report.
	Lowest Level (070)	Selects the lowest Peak2 histogram level to be printed.
	Highest Level (120)	Selects the highest Peak2 histogram level to be printed.
	Resolution (1.0)	Selects the Peak2 histogram resolution

All, Long Report Template (LOG instrument)		
Report Settings	Lower Level Report Settings	Description
Unformatted [No]		A dump of all <b>Read</b> , <b>Query</b> and <b>Interval</b> remote commands. Multiple values are comma delimited.

All, Long Report Template (LOG instrument)		
Data Report [Yes]		This shows general information such as Leq, SEL, Dose, Projected Dose, Lmin, Lmax, Peak, Ln's, exceedance, and calibration logs.
Log Report [Yes]		The run/stop log and with the date and time of each run/stop.
Setup Report [Yes]		Print the settings and their values for the LOG instrument.
SPL Histogram [Yes]		The 6 Ln values, Lmax, Lmin, and a bargraph of the level distribution.
Intv Report [Long]		Leq, SEL, Lmin, Lmax, Peak, Uwpk, exceedances, time, date, and duration in the short report. The Long reports adds the Ln values for the Interval period.
Hist Report [Yes]		Leq for each time history period.
Print Range	Intv Report [Long]	You can customize the interval report by choosing the long or short report.
	Lowest Record (00000)	Selects the lowest interval record to be printed.
	Highest Record (65535)	Selects the highest interval record to be printed.
	Hist Report [Yes]	You can customize the time history report by choosing the long or short report.
	Lowest Record (00000)	Selects the lowest time history record to be printed.
	Highest Record (>99999)	Selects the highest time history record to be printed.
Histograms	SPL Histogram [Yes]	You can customize the SPL Histogram report by choosing the long or short report.
	Lowest Level (045)	Selects the lowest SPL histogram level to be printed.
	Highest Level (095)	Selects the highest SPL histogram level to be printed.
	Resolution (1.0)	Selects the SPL histogram resolution
	Pk-1 Histogram [Yes]	You can customize the Peak1 Histogram report by choosing the long or short report.
	Lowest Level (110)	Selects the lowest Peak1 histogram level to be printed.
	Highest Level (140)	Selects the highest Peak1 histogram level to be printed.
	Resolution (5.0)	Selects the Peak1 histogram resolution
	Pk-2 Histogram [Yes]	You can customize the Peak2 Histogram report by choosing the long or short report.
	Lowest Level (070)	Selects the lowest Peak2 histogram level to be printed.
	Highest Level (120)	Selects the highest Peak2 histogram level to be printed.
	Resolution (1.0)	Selects the Peak2 histogram resolution

## None Enabled Report

When “None Enable” is selected from the Recall Format menu then all of the reports are disabled and will not be printed. This allows you greater ease in printing only a selected number of reports.

After selecting this template you can modify it as explained in "Printing a Custom Report" on page 8-23.

None Enabled Report Template (SSA instrument)		
Report Settings	Lower Level Report Settings	Description
Unformatted [No]		A dump of all <b>Read</b> , <b>Query</b> and <b>Interval</b> remote commands. Multiple values are comma delimited.
Data Report [No]		This shows general information such as Leq, SEL, Dose, Projected Dose, Lmin, Lmax, Peak, Ln's, exceedance, and calibration logs.
Setup Report [No]		Print the settings and their values for the SSA instrument.
Intv Report [No]		Leq, SEL, Lmin, Lmax, Peak, Uwpk, exceedances, time, date, and duration in the short report. The Long reports adds the Ln values and Spectral LNs for the Interval period.
Hist Report [No]		Leq for each time history period.
Print Range	Intv Report [No]	You can customize the interval report by choosing the long or short report.
	Lowest Record (00000)	Selects the lowest interval record to be printed.
	Highest Record (65535)	Selects the highest interval record to be printed.
	Hist Report [No]	You can customize the time history report by choosing the long or short report.
	Lowest Record (00000)	Selects the lowest time history record to be printed.
	Highest Record (>99999)	Selects the highest time history record to be printed.

None Enabled Report Template (SSA instrument)		
Histograms	SPL Histogram [No]	Prints SPL histogram and overall Spectral LN report.
	Lowest Level (045)	Selects the lowest SPL histogram level to be printed.
	Highest Level (095)	Selects the highest SPL histogram level to be printed.
	Resolution (5.0)	Selects the SPL histogram resolution
	Pk-1 Histogram [No]	You can customize the Peak1 Histogram report by choosing the long or short report.
	Lowest Level (110)	Selects the lowest Peak1 histogram level to be printed.
	Highest Level (160)	Selects the highest Peak1 histogram level to be printed.
	Resolution (5.0)	Selects the Peak1 histogram resolution
	Pk-2 Histogram [No]	You can customize the Peak2 Histogram report by choosing the long or short report.
	Lowest Level (070)	Selects the lowest Peak2 histogram level to be printed.
	Highest Level (120)	Selects the highest Peak2 histogram level to be printed.
	Resolution (5.0)	Selects the Peak2 histogram resolution

None Enabled Report (LOG instrument)		
Report Settings	Lower Level Report Settings	Description
Unformatted [No]		A dump of all <b>Read</b> , <b>Query</b> and <b>Interval</b> remote commands. Multiple values are comma delimited.
Data Report [No]		This shows general information such as Leq, SEL, Dose, Projected Dose, Lmin, Lmax, Peak, Ln's, exceedance, and calibration logs.
Log Report [No]		The run/stop log and with the date and time of each run/stop.
Setup Report [No]		Print the settings and their values for the LOG instrument.
SPL Histogram [No]		The 6 Ln values, Lmax, Lmin, and a bargraph of the level distribution.
Intv Report [No]		Leq, SEL, Lmin, Lmax, Peak, Uwpk, exceedances, time, date, and duration in the short report. The Long reports adds the Ln values for the Interval period.
Hist Report [No]		Leq for each time history period.

None Enabled Report (LOG instrument)		
Print Range	Intv Report [No]	You can customize the interval report by choosing the long or short report.
	Lowest Record (00000)	Selects the lowest interval record to be printed.
	Highest Record (65535)	Selects the highest interval record to be printed.
	Hist Report [No]	You can customize the time history report by choosing the long or short report.
	Lowest Record (00000)	Selects the lowest time history record to be printed.
	Highest Record (>99999)	Selects the highest time history record to be printed.
Histograms	SPL Histogram [No]	You can customize the SPL Histogram report by choosing the long or short report.
	Lowest Level (045)	Selects the lowest SPL histogram level to be printed.
	Highest Level (095)	Selects the highest SPL histogram level to be printed.
	Resolution (5.0)	Selects the SPL histogram resolution
	Pk-1 Histogram [No]	You can customize the Peak1 Histogram report by choosing the long or short report.
	Lowest Level (110)	Selects the lowest Peak1 histogram level to be printed.
	Highest Level (160)	Selects the highest Peak1 histogram level to be printed.
	Resolution (5.0)	Selects the Peak1 histogram resolution
	Pk-2 Histogram [No]	You can customize the Peak2 Histogram report by choosing the long or short report.
	Lowest Level (070)	Selects the lowest Peak2 histogram level to be printed.
	Highest Level (120)	Selects the highest Peak2 histogram level to be printed.
	Resolution (5.0)	Selects the Peak2 histogram resolution

# Printing a Custom Report

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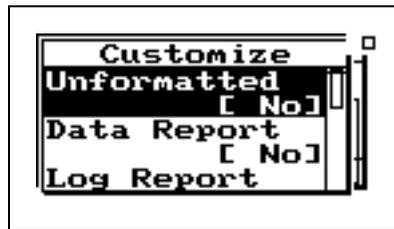
*The ISM instrument does not allow printing customized reports.*

In addition to being able to print your standard reports for data taken with the SSA, LOG, or RTA instruments, you can also further customize your report definitions at print time with the **Print** menu's **Customize** option.

The following provides an example of printing a customized report:

**Step 1** Press  key to bring up the **Print** menu.

**Step 2** Use the  and  arrow keys to highlight the **Customize** item, then select it using the arrow key or the  Check key. The following screen appears:



**Step 3** Use the  and  arrow keys to scroll through the available report settings. Use the  Check key to select the settings that you want to modify, then make the modifications.

*For your report to print properly, your printer must be connected as described in "Connecting the 824 to a Serial Printer" on page 8-1 and configured as described in "Printing Reports" on page 8-2.*

**Step 4** Use the  arrow key to completely back out of the **Customize** menu screen, then use the  arrow key to highlight the **Print** item, then select it using the  Check key. Your Customized report will now print.

The following table shows the available options under the *Customize* menu for the SSA instrument:

*Spectral LNs are printed in the Long Intv Report.*

Menu Items	Options
Unformatted	No Yes
Data Report	No Yes
Setup Report	No Yes
Intv Report	No Short Long
Hist Report	No Yes
Print Range	Intv Report (No, Short, Long) -Lowest Record -Highest Record Hist Report (No, Yes) -Lowest Record -Highest Record
Histograms	SPL Histogram (No, Yes) Lowest Level Highest Level Resolution Pk-1 Histogram (No, Yes) Lowest Level Highest Level Resolution Pk-2 Histogram (No, Yes) Lowest Level Highest Level Resolution

The following table shows the available options under the *Customize* menu for the LOG instrument:

Menu Items	Options
Unformatted	No Yes
Data Report	No Yes
Log Report	No Yes
Setup Report	No Yes
SPL Histogram	No Yes
Excd Report	No Short Long
Intv Report	No Short Long
Hist Report	No Yes
Daily Report	No Yes

Print Range	Excd Report (No, Short, Long) -Lowest Record -Highest Record Intv Report (No, Short, Long) -Lowest Record -Highest Record Hist Report (No, Yes) -Lowest Record -Highest Record
Histograms	SPL Histogram (No, Yes) Lowest Level Highest Level Resolution Pk-1 Histogram (No, Yes) Lowest Level Highest Level Resolution Pk-2 Histogram (No, Yes) Lowest Level Highest Level Resolution

NOTE: See the section "Summary Report Template" on page 8-8 descriptions of each report for the SSA and LOG instruments.

The following table shows the available options under the **Customize** menu for the RTA instrument:

(RTA instrument)		
Report	Options	Description
Data Report	No Yes	Name and Address of Company and date printed.
Live	No Yes	Shows beginning and ending date and time, runtime, type of Averaging, sample rate, trigger phase ad Live Spectrum.
Leq	No Yes	Shows beginning and ending date and time, runtime, type of Averaging, sample rate, trigger phase ad Leq Spectrum.
Max	No Yes	Shows beginning and ending date and time, runtime, type of Averaging, sample rate, trigger phase ad Max Spectrum.
Min	No Yes	Shows beginning and ending date and time, runtime, type of Averaging, sample rate, trigger phase ad Min Spectrum.

(RTA instrument)		
Autostore Rpt	No Short Long	The <b>Short</b> report prints the Leq, Lmax and Lmin spectrum. In addition, the ByTime Spectrums are included in the <b>Long</b> report.
Lowest Record	0 - 65535	The lowest Autostore Record to print.
Highest Record	0 - 65535	The highest Autostore Record to print.
Lowest ByTime	0 - 65535	The lowest ByTime Spectrum to print.
Highest ByTime	0 - 65535	The highest ByTime Spectrum to print.
RT-60 Report	No Yes	Prints the calculated RT60 for every octave or 1/3 octave band.
Avg Hist	No Yes	Spatial Average History
Lowest Record	0 - 65535	The lowest Spatial Average History Spectrum to print
Highest Record	0 - 65535	The highest Spatial Average History Spectrum to print
Setup Report	No Yes	Print the settings and their values for the RTA instrument.

