

LabSolutions LC/GC

Version 5.57 SP1

Readme

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1. Overview

This file describes supplementary information about purpose and usage of LabSolutions LC/GC version 5.

2. Contents of Installation Disk

The installation disk stores the installation files and documents under the following folders.

Installation disk Root

—AdobeReader	
—en	[Adobe Acrobat Reader English Installer]
—jp	[Adobe Acrobat Reader Japanese Installer]
—CBM102	[CBM-102 Ver. 2.1 update program]
—Dongle	[Dongle driver installer]
—LabSolutions	[LabSolutions installer]
—Manuals	
—en	[English Instruction Manuals]
—jp	[Japanese Instruction Manuals]
—IQOQ	
—CheckDataGC	[IQ/OQ check data(GC) installer]
—CheckDataLC	[IQ/OQ check data(LC) installer]
—Sample	[Sample data]
—Supplement	[Other supplemental files]
—Template	[Template files (reserved area)]
—en	[English template files]
—jp	[Japanese template files]
—LabSolutionsDirect	[LabSolutions Direct setup program]
—MSXML	[MSXML 4.0 installer]
—OraSilent	[Oracle database setting files]
—SkyPDFSilent	
—x64	[SkyPDF installer for 64-bit Windows]
—x86	[SkyPDF installer for 32-bit Windows]
—Vcredist	[MFC Runtime for 64-bit Windows]

3. LabSolutions LC/GC Feature Enhancements

3.1 Version 5.32 Feature Enhancements

3.1.1 Support for Windows 7

LabSolutions LC/GC supports Microsoft Windows 7 Professional (32bit English version).

3.1.2 Support for LC-30AD LPGE Mode and 10mL/min Flow Rate

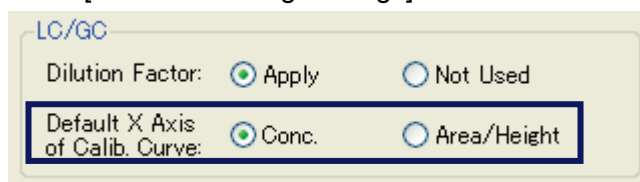
LabSolutions supports LC-30AD LPGE mode and 10mL/min flow rate. To use the following

functions, the ROM versions of CBM-20A/lite and LC-30AD should be updated. Please update each unit if necessary.

#	Item	CBM-20A/lite	LC-30AD
1	Supporting LC-30AD low pressure gradient mode	Ver. 2.10 or later	Ver. 2.10 or later
2	Extending the LC-30AD flow rate up to 10mL/min		

3.1.3 Other Enhancements

- a. When using ELSD, neburizing gas valve can be closed on Shutdown.
- b. Default value of the [X Axis of Calib. Curve] in the Quantitative parameters can be selected in the [Data Processing Settings] sub-window in the system settings.



[Default X Axis of Calib. Curve] is set to “Conc.” By default. Please select “Area/Height” for [Default X Axis of Calib. Curve] in order to set the default value of [X Axis of Calib. Curve] in the Quantitative parameters to “Area/Height” that is compatible with LCSolution [Ver. 1] and GCSolution [Ver. 1~2].

[X Axis of Calib. Curve] setting can be edited in the Quantitative parameters of method. The [Default X Axis of Calib. Curve] setting is applied to a method file newly created. The [X Axis of Calib. Curve] setting of method files already created is not changed.

3.2 Version 5.42 Feature Enhancements

3.2.1 SIL-30ACMP and CTO-30AS

LabSolutions supports SIL-30ACMP and CTO-30AS. To control these instruments, the ROM version of CBM-20A/lite should be updated to Ver.2.20.

3.2.2 Other Enhancements

- a. By selecting the [Move Chromatogram] menu in the Data Acquisition, Data Analysis, and PDA Data Analysis Windows, chromatogram of a chromatogram label selected on the Chromatogram View can be moved by dragging mouse.

3.3 Version 5.42 SP5 Feature Enhancements

3.3.1 Improving the execution speed

The execution speed of Postrun Batch and Data Explorer has improved.

3.4 Version 5.51 Feature Enhancements

3.4.1 Support for 64-bit Windows

LabSolutions LC/GC supports 64-bit version of Windows Server 2008 R2 and 64-bit version

of Windows 7 Professional.

3.4.2 Support for GC-2025

LabSolutions supports GC-2025.

3.5 Version 5.54 Feature Enhancements

3.5.1 Support for SPD-M30A

LabSolutions supports SPD-M30A.

3.5.2 Support for 4 channel wavelength acquisition

By using RF-20A/AXS, LabSolutions becomes supporting data acquisition with up to 4 channels of different excitation wavelength and emission wavelength. (Previous version supported data acquisition with up to 2 channels.)

3.5.3 Support for multiple ovens

By using CBM-20A/lite, LabSolutions supports up to 4 ovens. Application systems such as using a post-column are available.

3.5.4 Support for solvent blending

LabSolutions becomes supporting high-pressure gradient analysis by specifying the mixed solution ratio of up to 4 types of mobile phase solution on each pump and using the mobile phase blended in the pump.

When using the Version 5.54 Feature Enhancements, please update ROM versions of CBM-20A/lite and other instruments referring to the following table.

#	Item	CBM-20A/lite	Instrument version
1	SPD-M30A	Ver. 2.40 or later	
2	4 channel wavelength acquisition		RF-20A/AXS Ver. 1.10 or later
3	Multiple ovens		
4	Solvent blending		LC-30AD Ver. 2.20 or later

3.5.5 Support for Intelligent Peak Deconvolution Analysis (i-PDeA)

i-PDeA is the function to distinguish coeluted two peaks. By peak deconvolution theory at specific wavelength, each component can be detected by two separate chromatograms.

3.5.6 Support for HS-20

LabSolutions supports HS-20 (a head space sampler).

3.6 Version 5.54 SP2 Feature Enhancements

3.6.1 PDA Intelligent Dynamic Range Extension Calculator (i-DReC)

i-DReC function becomes usable for the PDA data.

When the peak intensity at the retention time exceeds the specified threshold, the multi-chromatogram wavelength is automatically shifted to a lower absorption wavelength to calculate the peak area and height, and then the peak area and height at the target wavelength are obtained by multiplying the absorption ratio between two wavelengths of the sensitivity correction spectrum extracted from the peak shoulder by this function.

3.6.2 Improvement the Loading of PDA data file

In application windows like Quant Browser and Calibration Curve, the number of PDA data files which can be loaded simultaneously increased.

3.6.3 Support for LabSolutions SIMDIS GC Software

LabSolutions supports SIMDIS GC software (Option).

3.6.4 Support for BID Detector (GC)

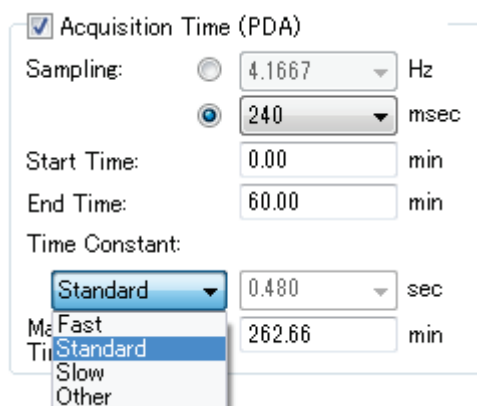
LabSolutions supports BID detector for GC-2010Plus.

3.7 Version 5.54 SP3 Feature Enhancements

3.7.1 Improving the SPD-M30A Time Constant Settings

The setting method of the "Time Constant" was changed by the instrument parameter of SPD-M30A.

Although it was set up numerically before, it was made to select from "Standard, Fast, Slow, and Other". When "Other" is selected, it can set up numerically like before.



Acquisition Time (PDA)

Sampling: 4.1667 Hz 240 msec

Start Time: 0.00 min

End Time: 60.00 min

Time Constant:

0.480 sec

262.66 min

3.7.2 Support for LC-20ADXR LPGE Mode

LabSolutions supports LC-20ADXR LPGE Mode.

When using this function, please update ROM versions of CBM-20A/lite and LC-20ADXR referring to the following table.

#	Item	CBM-20A/lite	Instrument version
1	Support for LC-20ADXR LPGE Mode	Ver. 2.50 or later	LC-20ADXR Ver. 1.30 or later

3.8 Version 5.57 Feature Enhancements

3.8.1 Support for LC-20ADXR Compressibility Setting

LabSolutions supports LC-20ADXR compressibility setting.

An optimal compressibility can be set as required type of mobile phase.

3.8.2 Support for LC-20AP LPGE Mode

LabSolutions supports LC-20AP (the pump for preparative LC system) LPGE Mode.

LPGE Mode can be used by connecting low-pressure gradient valve unit FCV-200AL to LC-20AP.

When using these Feature Enhancements (3.8.1, 3.8.2), please update ROM versions of CBM-20A/lite and other instruments referring to the following table.

#	Item	CBM-20A/lite	Instrument version
1	LC-20ADXR Compressibility Setting	Ver. 2.60 or later	LC-20ADXR Ver. 1.30 or later
2	LC-20AP LPGE Mode		LC-20AP Ver. 1.10 or later

3.8.3 Support for LabSolutions Direct

It became possible to control LabSolutions and monitor chromatograms from mobile devices.

4. LabSolutions LC/GC Corrected Defects List

4.1 Version 5.30 SP1 Corrected Defects List

#	Category	No.	Description	Remarks
1	Quantitative calculation	00002	Concentration of Corrected Area Normalization (with Scale Factor) was not calculated properly when a compound consists of multiple peaks. (Conc.% and Norm. Conc. Are calculated correctly.)	Multiple peaks are identified as a compound when Peak Selection of Identification is set to All Peaks.
2	Quantitative calculation	00004	Group concentration was not calculated when "Grouping Type" was set to [Group Calibration] and "Curve Fit Type" was set to [Manual RF].	Group concentration was displayed as zero.

4.2 Version 5.32 Corrected Defects List

#	Category	No.	Description	Remarks
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1	Data analysis	00006	When opening the data file created on the LCsolution Ver. 1.2 or before, [Ref Std ID], [Correction Factor] and [Standard Concentration Factor] could not be displayed in the Compound Table.	
2	Report	00007	When reporting a calibration curve including invalidated calibration points, it was output with the scale including invalidated calibration points which were not displayed.	
3	Batch table	00008	When opening the batch file saved as a text format, the file could not be saved as the LabSolutions format batch file.	
4	LC Analysis	00009	When a method file was downloaded to change the pump mode, communication with the LC instrument was occasionally disconnected because of an error.	
5	Batch analysis	00010	In the batch analysis with only selected rows, application error occurred when the batch file was saved after pausing the batch analysis and then deleting the selected rows to be acquired.	
6	General	00011	When installing Windows update program KB976576, an error message was displayed when terminating the program.	

4.3 Version 5.32 SP1 Corrected Defects List

#	Category	No.	Description	Remarks
1	Quantitative results report	00013	When "Data" to be output was specified to [All] in the Quantitative Results report item, total values of Area, Height, Concentration, Area% and Height% of a certain detector were output to those of the other detectors.	
2	Chromatogram report	00014	When reporting only the status traces by specifying "Displayed Chromatogram" to [No Chromatogram] in the Chromatogram report item, application error occasionally occurred.	

4.4 Version 5.42 Corrected Defects List

#	Category	No.	Description	Remarks
1	Quant Browser	00012	When editing the quantitative parameters by clicking the [Peak Integration for All Data] on the Assistant bar, the calibration curve expression displayed on the Calibration Curve View was not updated.	
2	Summary report	00016	In the summary report item, for data files whose display settings were specified to [User Defined] in the Data Analysis window, when the summary settings were specified to [Using range in data] as the intensity range and [Separate] as the chromatogram display type, the intensity range of the chromatogram was displayed with 1000 times greater than the specified range. In addition, when the intensity range of the [User Defined] was less than 0.2 in the summary report settings, there was a case the chromatogram was reported with the intensity range from -0.2 to 0.2.	
3	System configuration	00018	The default value of the [Auto Zero] in the ELSD system configuration has been changed to On.	

4	LC Analysis	00019	In the batch analysis using the acquisition cycle time optimization function, when stopping the batch analysis by clicking the [Batch Stop] button and enabling only the [Batch Processing] on the Stop Process dialog, the sample suction for the next analysis was executed.	
5	Instrument method	00024	The default value of the valve position of the 2-position valve connected to CTO-20A/C has been changed to 1.	
6	System configuration	00025	In the system configuration of the CTO-20A/C, the combo box of the valve was blanked when specifying to FCV-32AH and then re-displaying the setting dialog.	
7	LC Analysis	00030	When the data acquisition time of PDA detector was longer than the time range in the display settings in the Data Acquisition window, application error occasionally occurred.	
8	File Conversion	00031	When converting the CLASS-VP file where a JP method was specified as a column performance calculation method, the calculation method was converted to the JP method. (In the JP method in the CLASS-VP, the value of 5.55 has been used as a coefficient for the calculation of the number of theoretical plate. In the LabSolutions, the coefficient is 5.54 for the JP method and 5.55 for the JP2 method.	The defect has been fixed as the calculation method is converted to the JP2 method..
9	Data Comparison	00036	In the Data Comparison window, report preview was not displayed properly when opening a data file acquired by disabling data acquisition for certain detector.	The defect has been fixed as the channel acquired by disabling data acquisition is not opened.
10	GC Analysis	00037	The tray number was set as 1 in a data file acquired by single run analysis	The defect has been fixed as the tray number is set as blank.
11	User Authentication tool	00039	When linking with the CLASS-Agent User Authentication tool, backup of the User Authentication DB failed.	
12	Agent Registration	00040	The data file where data acquisition for all detectors was disabled was not registered to the CLASS-Agent database.	
13	Batch Analysis	00041	When the method file used for the batch analysis was opened on the other application at the start of the batch analysis registered in the batch queue, the batch analysis was not executed.	
14	General	00043	When a method file was saved and closed in the Postrun Analysis and then the same method file was opened in the Realtime Analysis, a message appeared to mention the file has been used.	
15	Calibration Curve	00046	If the network path which standard data files were stored was not found, the Calibration Curve window could not load the method file.	
16	Method report	79489	When reporting the [Sample Loading Overlap Time] parameter in the system controller, the [Sample Load Timing] was reported.	
17	Method Report	79291	When using SIL-30AC, the [Enable Autosampler] parameter was reported as On/Off.	The defect has been fixed as [Enable Autosampler] parameter is reported as Use/Not Used.
18	Pretreatment	00042	In the SIL-30AC pretreatment, when [Dilution] mode was selected and R0 (rinse solution) was specified for "Diluent vial", pretreatment error was occurred before injection if the aspiration volume to dilute exceeded the needle loop volume.	

19	Pretreatment	00045	In the SIL-30AC pretreatment, when [Dilution] or [Reagent] mode is selected, aspiration speed and dispersing speed of mixing command are changed from rs (aspiration and dispersing speed of rinse solution.) to 2 uL/sec and 10 uL/sec, respectively. For example, (before) mix 3,5,5,rs,rs (after) a1=2 a2=10 mix 3,5,5,a1,a2	
20	Data recovery function	00047	The buffered data was not recovered properly when using the SPD-M20A PDA detector.	
21	GC Analysis	80052	When using dual AOC, if AOC-20d(S) is set in the analytical line 2 side, dual-line analysis was not started.	
22	Quantitative calculation	00052	In the Peak Table report item, when a compound consists of multiple peaks, Conc.% of these peaks was not displayed properly. In addition, if multiple different channels were set to the analysis channel of the Compound Table, Norm. Conc. Was not calculated properly	
23	Data Analysis Window	00053	Peak top comment of the chromatogram has been displayed with the format specified on the [Data Proc Settings] in the [Administration Tools]/[System Settings] menu.	

4.5 Version 5.42 SP1 Corrected Defects List

#	Category	No.	Description	Remarks
1	LC/GC Analysis	10002	It was not possible to perform [Change Acquisition Time] and [Snapshot] after you close Realtime Analysis program during acquisition and restart it.	This defect occurs in version 5.42.

4.6 Version 5.42 SP2 Corrected Defects List

#	Category	No.	Description	Remarks
1	Audit Trail	10015	When changing the number of lines of the Integration time program and then saving the file with enabling the Audit Trail, application error occasionally occurred.	

4.7 Version 5.42 SP3 Corrected Defects List

#	Category	No.	Description	Remarks
1	Data Analysis Window	10026	The [Default X Axis of Calib. Curve] selected on the [Data Processing Settings] sub-window in the system settings was not applied to the default value of the [X Axis of Calib. Curve] in the Quantitative parameters.	This defect occurs in version 5.42 or later.
2	LC Analysis	10035	When the ROM version of ELSD-LTII was Ver. 1.7, it was not possible to connect with the instrument.	

4.8 Version 5.42 SP5 Corrected Defects List

#	Category	No.	Description	Remarks
1	Audit Trail	10018	The Audit Trail items about [Settings of Mobile Phase] for Pump C and D were not displayed properly.	This defect occurs only in English version
2	Summary report	10027	The Y-axis unit of chromatogram in the LC summary report Items was not displayed properly depending on the detector configuration.	
3	Sample information report	10044	[CMD Inj Counts] could not be displayed.	This defect occurs only in English version
4	General	10053	When opening a LabSolutions file with the Windows Explorer, the application could not be started.	
5	Data analysis	10066	When the end point of the tailing main peak was moved to the specified time by the Move BL command in Manual Integration, there was a case the height of the end point was also moved to the specified time and became different from that of the chromatogram.	
6	GC analysis	10070	In the system configuration of GC-2014, the setting of a gas type in the Additional Flow was not downloaded to the instrument.	
7	Batch Edit	10074	When the F10 key was pressed while inputting Japanese words into a cell of a Batch Table, it occasionally became impossible to input words.	
8	Peak Purity report	10077	When using [Overlay Chromatograms], if the chromatogram intensity was low, it occasionally occurred that the top of peak was not displayed in the graph display range.	
9	Chromatogram report	10082	The line types and line widths of [graph – Rack Plate L Temp/M Temp/R Temp] could not be set.	This defect occurs in version 5.42 or later.
10	LC analysis	10083	When a fraction collector was collecting, there was a case the hatching of fraction collection range was not displayed properly in the Data Acquisition Window.	This defect does not occur in the Postrun Analysis View.
11	Administration Tools	10085	If the [PC Information] in the [Administration Tools] – [Validation] was selected on Windows 7, the [Security Patch Information] was not displayed.	
12	System configuration	10088	In the system configuration of RID-10A, the System Check threshold View could not be opened.	This defect occurs only in version 5.42 SP3.
13	Report in general	10092	If the [Output report type in header] in the [Security Policy] was selected, it occasionally occurred that the report was not displayed properly.	This defect occurs in version 5.42 or later.
14	General	10094	If the Agent authentication database was restored while it was being connected to, there was a case that the service could not be started after the restoration.	
15	Batch Edit	10104	In the Batch Editor window, if a vial number was set including alphabet such as 'A1' and [Fill Series] was selected, the numbers were set instead of XY format.	
16	Agent Registration	10122	The vial number of the sample information of data registered to the CLASS-Agent was not correct.	This defect occurs in version 5.42 or later.
17	Chromatogram report	10145	If the curve name of chromatogram was set to draw outside a graph, there was a case that a lead line of the graph was not drawn properly.	

4.9 Version 5.42 SP6 Corrected Defects List

#	Category	No.	Description	Remarks
1	Report	10169	When reports were generated in the analysis, the number of digits set in [Administration] of [Data Proc. Settings] was not applied.	This defect occurs in version 5.42 or later.
2	LC/GC Analysis	10171	When there isn't the folder which is set at [Copy to] in [Auto Copy] tab page of [Option] menu, there was a case that the application got hung-up.	

4.10 Version 5.51 Corrected Defects List

#	Category	No.	Description	Remarks
1	System Check	10001	When executing System Check on the OS locale settings where decimal point was set to comma (such as German) in Region and Language options, the decimal fraction of adjustment parameters and validation results was output as 0.	
2	Report	10025	In the Chromatogram and Summary report item, when Time Range was Manual and Separate Display was 2 or larger, the time axis was displayed without separated.	
3	Instrument Monitor Bar	10028	When the state of degassing unit connected to subcontroller was changed in the time program, the current value was not properly displayed in the Instrument Monitor bar.	
4	Batch Postrun	10041	If multiple postrun batch analyses were run simultaneously, the following error occasionally occurred: [CAB?????.cab is not found.].	
5	Calibration Curve	10042	In the manual integration of Calibration Curve window, when executing [move BL] to PDA data where Display of Ch1 in the Multi Chromatogram settings was unchecked, there was a case an error message was displayed and peak integration could not be executed.	
6	Data Browser	10057	When executing peak integration in Data Browser, the result of the Column Performance (tailing factor, resolution and so on) became 0.	
7	PDA data analysis	10060	When analyzing PDA data where Display of Ch1 in the Multi Chromatogram settings was unchecked, an application error occasionally occurred after clicking [Program] button (starting integration time program) in Compound Table Wizard.	
8	Macro Settings	10061	On the Macro settings of the method report item, when setting display item of [PDA Data Processing Parameters] ([peak integration], [identification], [quantitative], [compound table] and [column performance]) by inserting Macro Variable, the inserted macro text strings were not correct.	
9	LC Analysis	10071	When starting to plot the data of PDA detector soon after setting the Criteria Value of the QA/QC parameter in Data Acquisition window, an application error occurred.	
10	File conversion	10078	When converting CLASS-VP method or data files to LabSolutions format, the comments were not converted.	
11	Quantitative Result Report /Grouping Result Report	10093	In the Quantitative result and Group Results report item, when selecting data to [PDA] and unchecking Fix Detector Number, the results were not reported.	

12	Data Comparison	10115	When performing Zoom Up/Down, Zoom Left/Right or Move Up/Down in Data Comparison window, the scale size of Full Chromatogram was changed.	
13	System Configuration	10133	In the system configuration of the GC, if a new entry was made to the column list, the two types of column registered initially disappeared. The problem was corrected.	
14	System Configuration	10136	When restarting System Configuration and selecting the same column list, the message containing Audit Trail with [ID of Column DB] changed was displayed.	
15	Graph of Time Program	10141	When executing [Initialize Zoom] to the graph of the time program soon after creating new method file, the graph was not displayed correctly.	
16	Data Acquisition	10142	When the slope test was executed to detector A, it was executed to detector B if the graph view was set to [Stack] in Display Settings and detector A had multiple wavelength channels.	
17	Summary Report	10147	Lambda max was not reported correctly on summary data of Summary (Compound) Report Item.	
18	Quantitative Browser	10154	On [Quantitative Results View] in Quant Browser, when Sample Name was changed soon after toggling display/hide of the statistic calculation results, it was applied to different line.	
19	Report item overall	10165	When a report with vertical texts was output in PDF, it was not displayed correctly in some cases. The problem was corrected.	
20	Method Report	10168	Cell Temperature of RF detector was not reported.	This defect occurs only in English version
21	Installer	10170	It was not possible to run LabSolutions on the computer where WindowsScriptingHost was not installed.	
22	Calibration Curve	10173	When method files were set to read only, it was not possible to run analysis with those method files even when the sample type was [Unknown] and the method files were not to be changed.	
23	Auto Copy	10175	With enabling Auto Copy in [Tools]-[Setting Options], Auto Copy was not executed when GC data was saved in Data Analysis window.	
24	Auto Copy	10176	With enabling Auto Copy in [Tools]-[Setting Options], data file was not registered to Agent database when the copy destination folder was set to blank or it did not exist.	
25	Batch	10177	When Sample Type was set to [Unspiked] or [spiked] except at the first line of Batch, the value of [Unspiked] was not reported correctly.	
26	PDA data analysis	10180	With the Chromatogram View Display Setting set to Single, when closing PDA Data Analysis window and then opening the PDA data in PDA Data Analysis window again, an application error occasionally occurred.	
27	Data Acquisition	10181	When entering the value of carrier gas at [Injection Unit] tab in the Instrument Parameter, the gas flow was not calculated if another tab was focused directly.	
28	Batch Postrun Report	10185	The Report Number in the report of [Batch Postrun] appeared as [1].	This defect occurs in version 5.42 or later.
29	LC Analysis	10186	In the pretreatment of SIL-10A series and SIL-10ADvp, a part of the [Reagent] parameter was not downloaded properly.	

30	LC Analysis	10187	After CBM-20A/20Alite was restarted without setting any pumps in the system configuration, there was the case that data acquisition was not started when single run or batch analysis was performed.	
31	Start-up	10189	When starting analysis program, connection failure occasionally occurred after beep sound from the instrument.	
32	Report	10191	In Calibration Information of Data Processing Parameters of Method report item, the formula of the detector connected to line 2 was not displayed correctly.	
33	Autopurge	10197	After executing AutoPurge with more than two solutions and with the setting of [Purge Time] for Autosampler set to 0.1 minutes, the AutoPurge window was not displayed on the next AutoPurge and Analysis program could not be stopped.	
34	Peak Integration	10198	When calculating peak valley ratio, division was performed by the value around 0.0 on particular data then the data could not be saved to database for the calculation result became infinity.	
35	Batch	10199	Batch Add-in settings in the batch table were not saved in the data file on Analysis.	
36	Vial Number	10200	When setting vial number with XY format and executing batch analysis enabling Acquisition Cycle Time Optimization, an error message "Vial number is not correct." was displayed.	
37	QR Code	10203	It was not possible to output QR code in the report format file created by LCsolution.	
38	Batch	10204	In batch analysis with the configuration of GC dual-line, the first and last line were not acquired when executing batch analysis only to line 2.	

4.11 Version 5.54 Corrected Defects List

#	Category	No.	Description	Remarks
1	Report	10009	When editing a method items on the configuration with RF-20A (2 Wavelength Mode) and printing a report, unnecessary strings "RF" were output in Display Items.	
2	Report	10010	When editing a method items on the configuration with RF-20A (2 Wavelength Mode) and printing a report, the contents of [RF Analog Output] and [RF Analog Output2] were displayed in incorrect character format.	This defect occurs only in Japanese version
3	Report	10011	When editing a method items on the configuration with RF-20A (2 Wavelength Mode) and printing a report in English, the items of [Sensitivity], [RF Analog Output], [RF Analog Output2] were not displayed correctly.	This defect occurs only in Japanese version
4	LC Analysis	10012	Even if the autosampler is set to LocalMode, the tool buttons of autopurge, system check and start single run were enabled.	
5	Report	10148	When creating Batch Table items and outputting a report, the items of "Created by" and "Modified by" displayed in the file property couldn't be reported.	
6	Data Analysis window	10201	In [Results View] in the Data Analysis window, the font set in the Compound Result Table did not reflect the one set in [Table Style].	
7	Data Analysis window	10202	When performing [Tools]-[Show Check Result] after saving a data file in Data Analysis, the result was displayed as NG.	This defect doesn't occur when saving a PDA data file.

8	Log Browser	10207	When using the log browser function, the filter specified by time was not available.	
9	LC Analysis	10220	The [Summary (Data)] report item supports to report the settings of [LC Time Prog.] in [Instrument Parameter View].	
10	Summary report	10221	In the [PC Information] window, [Printer Information (Driver Information)] was not displayed properly.	
11	Report	10226	When repeatedly zooming a chromatogram, the same values of X axis scales plotted redundantly.	
12	System Configuration	10227	When creating a new [System Configuration] report item and then loading the data acquired by RF-20A/ AXS, the [Xe Lamp Change Interval] item was displayed twice in the [Detector A] item.	This defect occurs only when reporting data acquired by RF-20A/ AXS.
13	Instrument method	10228	In the [Network Instrument] window in [Communication Settings], the [Login Status] item was not displayed.	
14	Data analysis	10229	When 1 Wavelength mode was selected for RF-20A/AXS, '0' could be set as the excitation wavelength.	
15	Data Comparison	10230	When updating a PDA contour graph during PDA data acquisition, the [Data Acquisition] window was unintentionally closed.	
16	Report	10231	On the configuration with multiple detectors, even when the [Other Detectors] checkbox in [Display Settings] in [Chromatogram View] was selected, chromatograms of other detectors were not plotted.	This defect occurs when operating data acquired without selecting the checkbox of [Detector A] in [Data Acquisition].
17	Data Comparison	10236	Even when loading PDA data in the [Data Comparison] window after selecting the [Reference Correction] checkbox, a chromatogram without reference correction was plotted.	In the peak table, the result after reference correction is displayed.
18	Report	10239	Default values in the [Settings] tab of batch table items were corrected.	
19	Report	10243	In [Summary (Compound)] Report Item, integration (%RSD, standard deviation) of [Number of Theoretical Plate/meter] was not correctly calculated.	
20	LC Analysis	10261	When performing Auto-Purge of autosampler, [LC Control] buttons as follows could not be clicked. - Instrument On/Off - Drain fraction collector - Scan spectrum	
21	Batch Analysis	10262	When performing batch analysis in [System Configuration] of TurboMatrixHS and GC, and setting [Start Line] and [End Line] in [Settings] of realtime batch, correct vial numbers were not sent to TurboMatrixHS.	
22	Batch Postrun	10263	When performing batch postrun, [Sampling Count from the Vial] of [Sample Information] was reset to '0'.	
23	PDA data analysis	10274	When pop-up menu was displayed in [Spectrum View] of PDA data analysis, display of [Data Explorer] flickered in particular configuration of PC.	
24	Data Analysis window	10277	When decimal points are set to comma in Region and Language such as Garman format, and numerical value was set to [Index] of comment 7 and 8 in [Prefilter] of [Library], search was not correctly performed.	

25	Data Acquisition	10281	When overwriting a method file soon after the line of [LC Time Prog.] was cut or cleared, the file was not saved.	
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4.12 Version 5.54 SP1 Corrected Defects List

#	Category	No.	Description	Remarks
1	Batch	10302	When saving a batch file in text format, some items could not be saved or loaded. The following are the items which could not be saved. -Conc. Overrides -System Suitability -Sampler File -Barcode -Multi Injection The following are the items which could not be loaded. -Action -ISTD Amt. -Data Comment including tab characters	
2	Batch Table Wizard	10311	In the [Batch Table Wizard] using a method file in which Rack 14 of SIL-10ADvp was set as Sample Rack, the tray could not be set even after making a rack definition file.	
3	Report	10315	When a pump was in the LPGE mode, "LPGE Mode: Auto" was displayed in each pump item in the LC instrument parameters of method report items even when the other pumps did not have LPGE Mode parameters.	
4	Calibration Curve	10333	When method parameters of the data file acquired by dual-line configuration GC were loaded to the method file of dual-line configuration GC by "Load Data Method Parameters" in Calibration Curve Window, method parameters of Line 2 of the data file was loaded to Line 1 of the method file.	This defect occurs when data was acquired by dual-line configuration GC.
5	Calibration Curve	10334	When the data file acquired by Line 2 of dual-line configuration GC was saved by "Save Method As..." in Data Analysis Window, the saved method file couldn't be opened in Calibration Curve Window.	This defect occurs when data was acquired by dual-line configuration GC.

4.13 Version 5.54 SP2 Corrected Defects List

#	Category	No.	Description	Remarks
1	Log Browser	10319	When the [Log Type] is changed before Log Browser displays all logs, there was a case that the logs of different log type are displayed.	
2	Data Explorer	10321	If "Library of Windows OS" has no directory and it is expanded in [Data Explorer], application error occurs.	
3	Report	10346	If [Y Display Area] is changed in Contour Graph report item, application error occurs.	
4	LC Analysis	10350	Without sample with SIL-30ACMP is run in [Realtime Analysis], there was a case that error is displayed.	
5	LC Analysis	10374	The default value of "Slit Width" in the SPD-M30A instrument parameters has been changed into 8 nm from 1 nm.	

4.14 Version 5.54 SP3 Corrected Defects List

#	Category	No.	Description	Remarks
1	Data Analysis	10391	There was a case that the "Peak Valley Height"(valley height between the target peak and the previous peak) became a larger value than the real value with peak shape, and the "Peak Valley Ratio" became a smaller value.	
2	Data Analysis	10322	When data acquisition was run using the method file containing the Manual Integration table, the data file containing the Manual Integration command was created. It was corrected so that the Manual Integration table might not be stored into a method file. Even if data acquisition was run using the method file containing the Manual Integration table, it was corrected so that the Manual Integration command might not be stored into a data file.	
3	Report	10365	When the report format file on a network drive was specified on the batch table and analysis was performed, the report output was carried out using "Default.lsr".	
4	Batch	10376	When the full pathname of the current folder was long, there was a case that the user program was not run by batch processing.	
5	SIMDIS GC Analysis	10386	Reid vapor pressure calculation has been corrected.	This defect occurs only on SIMDIS GC option.
6	SIMDIS GC Analysis	10387	NOACK calculation has been corrected.	This defect occurs only on SIMDIS GC option.
7	GC Analysis	10389	When using HS-20, the temperature of injection port can be set.	
8	GC Analysis	10395	When using HS-20, there are unnecessary or mistaken named parameters in the system configuration and instrument parameter view.	
9	Report	10400	When the solvent delivery mode was except Low Pressure Gradient, the unnecessary compression ratio was displayed in the instrument parameter report of LC-30AD.	
10	GC Analysis	10404	After the carrier gas type was changed, there was a case that the previous gas type was used for carrier gas flow calculation.	

4.15 Version 5.54 SP4 Corrected Defects List

#	Category	No.	Description	Remarks
1	Quant Browser	10195	When the display font setting of [Results View] in the [Quant Browser] was changed, the font setting was not saved.	This defect was fixed in 5.54SP2.
2	Report	10287	The Help for [PDA Data Processing Parameters] in method report item was not displayed correctly.	This defect was fixed in 5.54SP2.
3	Report	10300	When loaded the report format which exported from LabSolutions DB, an application error occurred. It occurred when the checkbox of the "Fix file(s) in the item" was selected.	This defect was fixed in 5.54SP3.
4	General	10312	When started [Realtime Analysis] / [Postrun Analysis] program with PC in high-intensity, the file occasionally not displayed in [Data Explorer]. (It occurs only in LabSolutions LC/GC.)	This defect was fixed in 5.54SP2.

5	GC Analysis	10399	On the OS locale settings where decimal point was set to comma (such as German) in Region and Language options, the instrument parameter of TurboMatrixHS was not downloaded properly.							
6	LC Analysis	10406	In the instrument environment of SIL-30AC, when pressed the pretreatment button in [Instrument Parameter View] of the [Autosampler] tab page, an application error occurred.							
7	GC Analysis	10409	When running batch analysis, [Realtime Analysis] program was occasionally closed.	Though the hang up occurred, data acquisition completes correctly.						
8	GC Analysis	10412	When executing System Check with the setting of the name of column in [system configuration] to more than 32 characters, an application error occurred.	GC Only						
9	LC Analysis	10416	When executed long acquisition with fast sampling, [Realtime Analysis] program hung up. It occurs when (Data Acquisition/Sampling Period) surpassed 1024 x 1024. Ex) <table border="1" data-bbox="603 891 1056 981"> <thead> <tr> <th>Sampling Period</th> <th>Acquisition time</th> </tr> </thead> <tbody> <tr> <td>100msec</td> <td>1747.62 min</td> </tr> <tr> <td>20msec</td> <td>349.52 min</td> </tr> </tbody> </table> <p>Though the hang up occurred, data acquisition completes correctly.</p>	Sampling Period	Acquisition time	100msec	1747.62 min	20msec	349.52 min	
Sampling Period	Acquisition time									
100msec	1747.62 min									
20msec	349.52 min									
10	System configuration	10417	When executed [Print] from [System Configuration] sub-window, System configuration was not printed. It occurred when executed [Print] right after opening the file stored at the different disk drive from which LabSolutions was installed (for example at D drive).							
11	LC Analysis	10428	When set the [Wait Time] of oven, the change of the value was not downloaded to the instrument. The instrument operated as using the downloaded Wait Time [0].	This defect occurs in 5.54SP1 or later.						
12	Report	10430	In the method report item, it occurred when an Injection Unit was DINJ, the R column information in the [GC Instrument Parameters] was displayed as the information in the [Column Oven Information].	This defect occurs in 5.54SP1 or later.						
13	General	10431	When the Realtime monitor of the Anti-virus software operated in the PC, batch processing occasionally stopped.							
14	PDA data Analysis	10432	When specified Background compensation in PDA Data Analysis or batch processing to PDA data, handle leak occurred. Operating LabSolutions for long time without restarting had possibility to occur Insufficient memory error and caused system instability.	This defect occurs in 5.54SP2 or later.						
15	Report	10433	On the Calibration Curve of SIMDIS GC Report Item, Data file names were not reported correctly. It occurred in the case as described below. - When set the cell of "Conc." of the #1 on the compound table to "Not Used" or set the "Area" checkbox of the #1 on "Calibration Table" to invalidation. - When set the Quantitative Method of the Quantitative tab to "Area Normalization".	This defect occurs in 5.54SP2 or later.						

4.16 Version 5.54 SP5 Corrected Defects List

#	Category	No.	Description	Remarks
1	LC Analysis, GC Analysis	10444	In Realtime Analysis program, when executing repetitive snapshots and starting up a number of [Data Analysis] windows, there was a case data file which loaded with canceling the snapshot mode was deleted.	

4.17 Version 5.57 Corrected Defects List

#	Category	No.	Description	Remarks
1	Log Browser	10255	In the Log Browser, when the log is filtered, the registered log at the same time is not correctly sorted.	
2	Report	10445	Some settings of the [# of Items in a Row] in the Method report item and the System Configuration report item were not saved in Report Format.	
3	Report	10456	When executing [Tools]-[Customization]-[Toolbar Customization Settings] from [Report] window, there was a case that the program got hung-up.	It occurred when using the licenses of GC or LC without PDA.
4	PDA data Analysis	10457	When opening the data file as reference data file, there was a case that the channel to display could not be selected because the channel selection window was not displayed.	It occurred in acquired data file with instrument configuration including PDA detector and other detector(s), and method of which data acquisition was set to [Off] except for PDA detector.
5	Batch	10466	When the System Suitability testing(SST) is performed in the instrument number from 10 to 15, the result cannot be shown and printed.	
6	Report	10469	When setting [Y-axis Display Area] in the Contour Graph report item, regardless of the value of [Y-axis Minimum Wavelength], the acquired data was always drawn from the Start Wavelength. This defect also occurred in the 3D Graph report item.	This defect occurs in 5.54SP2 or later.
7	Report	10470	The carrier gas pressure value of GC instrument parameters in the Method report item, regardless of the set unit in system configuration, the value always printed in kPa unit.	
8	LC Analysis	10481	When the checkbox for a detector in the Instrument parameter view was set to [Off], there was a case that data acquisition ran until the end time of the detector.	This defect occurred in 5.54 or later
9	LC Analysis	10491	When a method file created with a different detector base rate was opened and the sampling rate in the instrument parameter was no longer an integer multiple of the new base rate, there were cases where the retention time and intensity of chromatograms were not created correctly.	The problem does not occur if the sampling rate is corrected in the instrument parameter view.

4.18 Version 5.57 SP1 Corrected Defects List

#	Category	No.	Description	Remarks
1	Batch	10510	When a batch table file (GCsolution text format) was loaded, some option items were not displayed. To display such items, depends on the file new setting of the batch file, a template is used.	