

# ==== Shimadzu LabSolutions Analysis Report =====

Sample Name : DL V7 R1  
 Sample ID :  
 Data Filename : DL V7 R1\_20240708\_DL V6+V7\_SFB\_B\_ST1\_0.8 mL\_45 min\_Start\_005.lcd  
 Method Filename : SFB\_B\_ST1\_0.8 mL\_45 min\_Start.lcm  
 Batch Filename : 20240708\_DL V6+V7.lcb  
 Vial # : 3-14  
 Injection Volume : 10 uL  
 Date Acquired : 7/9/2024 3:22:44 AM  
 Date Processed : 7/9/2024 4:07:45 AM

Sample Type : Unknown  
 Acquired by : System Administrator  
 Processed by : System Administrator

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## <Method>

### <<Header>>

Generated : 4/24/2024 3:47:23 PM  
 GeneratedBy : System Administrator  
 Modified : 7/8/2024 4:44:25 PM  
 ModifiedBy : System Administrator

### <<System Controller>>

Model : SCL-40  
 Event1 : Off  
 Event2 : Off  
 Sample Load Timing : Off

### <<Data Acquisition>>

LC Stop Time : 45.00 min  
 Detector A Name : Detector A  
 Detector A Sampling Frequency : 2 Hz  
 Detector A Start Time : 0.00 min  
 Detector A End Time : 45.00 min

### <<Pump>>

Mode : Isocratic flow  
 Pump A : LC-40D  
 Pump A Flow/Pressure : Flow  
 Pump System A Flow : 0.8000 mL/min  
 Pump System A Flow Slope : 30.00 min  
 Pump A PressMax : 90 bar  
 Pump A PressMin : 0 bar  
 Pump A Valve Model : Switching Valve  
 Pump A Valve : B  
 Pump A Compressibility Setting : On  
 Pump A Mobile Phase Settings : 0.45 /GPa

### <<Autosampler>>

Autosampler Model : SIL-40  
 Enable Autosampler : Use  
 Rinse Type : External only  
 Specify Plate : Off  
 Rinsing Volume : 500 uL  
 Cut Off Loop : Off  
 Specify Needle Stroke : Off  
 Rinsing Speed : 35 uL/sec  
 Sampling Speed : 5.0 uL/sec  
 Rinse Port R0 Purge Time : 2.0 min  
 Measuring Line Purge Time : 5.0 min  
 Rinse Mode : Before and after aspiration  
 Rinse Dip Time : 0 sec  
 Measuring Line Purge Volume : 100 uL  
 Air Gap Volume : Off  
 Rinse Port Liquid : R0

### <<Sample Pretreatment>>

Mode : Standard

### <<Oven>>

Oven Model : CTO-40C  
 Enable Oven : Use  
 Oven Temperature : 25 C  
 Maximum Temperature : 105 C

Ready Check	: On
Wait Time	: 5 min
Ready Range	: 1.0 C
Fan Speed	: Auto
Cooler Mode	: Auto
Valve 1/L	: FCV-0206
Valve 1/L Position	: 1: Column1

<<Detector A>>

Model	: RID-20A
Mode	: Analytical
Polarity	: +
Use Cell Temp.	: Use
Cell Temp.	: 40.0 C
Response	: 1.5 sec
Intensity Unit	: Volt
Auxiliary Range	: 1.0E-3 RIU/V
Recorder Range	: 100.00 uRIU/FS
Synchronize with Auxiliary	: Off
Purge Time	: 20 min

<<LC Time Program>>

Time	Module	Command	Value	Comment
45:00	Controller	Stop		

## <<Peak Integration>>

<Detector A>

Channel	: Ch1	
Width	: 5 sec	
Slope	: 2000 uV/min	
Drift	: 0 uV/min	
T.DBL	: 1000 min	
Max Slices	: 0	
Peak Top Detection	: Normal	
RT Compensation Mode	: Fine	
Min.Area/Height is made effective in Manual Integration		: Off
Min.Area/Height	: 1000 counts	
Calculated by	: Area	
Noise Calculation Settings	: Noise Data	: Current Data
	Calculation Method	: ASTM
	Range	: Whole Range
	Interval	: 0.5 min
	Include the Peak Detected Range	: Off
	Detection Limit Coefficient	: 3.3
	Quantitative Limit Coefficient	: 10.0
Drift Calculation Settings	: 0.000 - 15.000 min	

&lt;&lt;Integration Time Program(Method)&gt;&gt;

<Detector A>

Channel : Ch1  
Time Program : None

&lt;&lt;Integration Time Program(Data)&gt;&gt;

<Detector A>

Channel : Ch1  
Time Program : None

&lt;&lt;Identification&gt;&gt;

<Detector A>

Window/Band	: Window
Window	: 5.00 %
Identification Method	: Absolute
Peak Selection	: Closest Peak
Display not identified peaks	: Not display

<<Quantitative>>

<Detector A>

Quantitative Method	: External Standard
Calculated by	: Area
# of Calibration Levels	: 8
Curve Fit Type	: Linear
Zero	: Not Forced
Weighting Method	: None
X Axis of Calib. Curve	: Conc.
Units	: mol/L
Format of Conc.	: Decimals
Format of Conc. Figure	: 5
Group Type	: Not Used
Check %Dev(Standard)	: No

Check Accuracy[%](Standard)	: No
Check %Dev(Control)	: No
Check Accuracy[%](Control)	: No
Check %Dev(Additive)	: No
Check Accuracy[%](Additive)	: No
Check %Dev(Unknown)	: No
Check Accuracy[%](Unknown)	: No
Check Quantitation Limit	: No
Check Detect Limit	: No

## &lt;&lt;Compound Table&gt;&gt;

<Detector A>

```

ID#           : 1
Name          : Methanol
Type         : Target
Channel      : Ch1
Retention Time : 14.400 min
Retention Index : 0
Concentration : [1]=3.016738           [2]=1.049395           [3]=0.4943277
               [4]=0.2893701         [5]=0.1127578         [6]=0.06136267
               [7]=0.01619725        [8]=100
Peak Selection : Default(Closest Peak)
Calculated by : Default(Area)
Curve Fit Type : Default(Linear)
Zero          : Default(Not Forced)
Weight        : Default(None)
Window/Band   : Default(Window)
Spiked        : 0.000
1st Coefficient : 4.702049e+005
Intersection   : 1.772865e+003
Correction Factor : 1.000000
Standard concentration factor : 1.000000

```

```

ID#                : 2
Name               : Glycerin
Type              : Target
Channel           : Ch1
Retention Time     : 10.000 min
Retention Index    : 0
Concentration      : [1]=2.958375          [2]=1.078646          [3]=0.5353454
                   : [4]=0.3066948        [5]=0.114594        [6]=0.05901699
                   : [7]=0.0117174       [8]=100
Peak Selection     : Default(Closest Peak)
Calculated by     : Default(Area)
Curve Fit Type    : Default(Linear)
Zero              : Default(Not Forced)
Weight            : Default(None)
Window/Band       : Default(Window)
Spiked            : 0.000
1st Coefficient   : 7.360191e+006
Intersection      : 2.507994e+005
Correction Factor  : 1.000000
Standard concentration factor : 1.000000

```

```

ID#           : 3
Name          : n-Propanol
Type         : Target
Channel      : Ch1
Retention Time : 20.000 min
Retention Index : 0
Concentration : [1]=3.02526           [2]=1.092217           [3]=0.5139845
               [4]=0.3105323         [5]=0.09785473        [6]=0.04497364
               [7]=0.01087275        [8]=100
Peak Selection : Default(Closest Peak)
Calculated by  : Default(Area)
Curve Fit Type : Default(Linear)
Zero          : Default(Not Forced)
Weight        : Default(None)
Window/Band   : Default(Window)
Spiked        : 0.000
1st Coefficient : 3.949319e+006
Intersection   : -2.639262e+004
Correction Factor : 1.000000
Standard concentration factor : 1.000000

```

```
ID#           : 4
Name          : 1,2 Propandiol
Type          : Target
Channel       : Ch1
```

Retention Time : 12.400 min  
Retention Index : 0  
Concentration : [1]=2.977546 [2]=1.016412 [3]=0.5030017  
[4]=0.3027638 [5]=0.1023958 [6]=0.04970167  
[7]=0.01157971 [8]=100  
Peak Selection : Default(Closest Peak)  
Calculated by : Default(Area)  
Curve Fit Type : Default(Linear)  
Zero : Default(Not Forced)  
Weight : Default(None)  
Window/Band : Default(Window)  
Spiked : 0.000  
1st Coefficient : 5.784693e+006  
Intersection : 5.684456e+004  
Correction Factor : 1.000000  
Standard concentration factor : 1.000000

ID# : 5  
Name : 1,3 Propandiol  
Type : Target  
Channel : Ch1  
Retention Time : 13.000 min  
Retention Index : 0  
Concentration : [1]=2.976375 [2]=0.9968958 [3]=0.4990984  
[4]=0.2900131 [5]=0.10734 [6]=0.04944145  
[7]=0.0100184 [8]=100  
Peak Selection : Default(Closest Peak)  
Calculated by : Default(Area)  
Curve Fit Type : Default(Linear)  
Zero : Default(Not Forced)  
Weight : Default(None)  
Window/Band : Default(Window)  
Spiked : 0.000  
1st Coefficient : 5.556690e+006  
Intersection : 5.334069e+004  
Correction Factor : 1.000000  
Standard concentration factor : 1.000000

ID# : 6  
Name : iso-Propanol  
Type : Target  
Channel : Ch1  
Retention Time : 16.825 min  
Retention Index : 0  
Concentration : [1]=3.03666 [2]=1.003405 [3]=0.5418687  
[4]=0.3101858 [5]=0.1067771 [6]=0.04972951  
[7]=0.01397083 [8]=100  
Peak Selection : Default(Closest Peak)  
Calculated by : Default(Area)  
Curve Fit Type : Default(Linear)  
Zero : Default(Not Forced)  
Weight : Default(None)  
Window/Band : Default(Window)  
Spiked : 0.000  
1st Coefficient : 3.789100e+006  
Intersection : -2.417100e+004  
Correction Factor : 1.000000  
Standard concentration factor : 1.000000

ID# : 7  
Name : Hydroxyacetone  
Type : Target  
Channel : Ch1  
Retention Time : 13.300 min  
Retention Index : 0  
Concentration : [1]=2.855514 [2]=0.9609004 [3]=0.4875675  
[4]=0.3072624 [5]=0.1038742 [6]=0.04860286  
[7]=0.009361501 [8]=100  
Peak Selection : Default(Closest Peak)  
Calculated by : Default(Area)  
Curve Fit Type : Default(Linear)  
Zero : Default(Not Forced)  
Weight : Default(None)  
Window/Band : Default(Window)  
Spiked : 0.000  
1st Coefficient : 4.945860e+006  
Intersection : 3.652353e+004  
Correction Factor : 1.000000  
Standard concentration factor : 1.000000

ID# : 8  
 Name : Ethylenglykol  
 Type : Target  
 Channel : Ch1  
 Retention Time : 12.200 min  
 Retention Index : 0  
 Concentration : [1]=2.933794 [2]=1.030353 [3]=0.4898163  
                   [4]=0.3033639 [5]=0.09840986 [6]=0.059971  
                   [7]=0.01068632 [8]=100  
 Peak Selection : Default(Closest Peak)  
 Calculated by : Default(Area)  
 Curve Fit Type : Default(Linear)  
 Zero : Default(Not Forced)  
 Weight : Default(None)  
 Window/Band : Default(Window)  
 Spiked : 0.000  
 1st Coefficient : 4.294319e+006  
 Intersection : -2.114259e+003  
 Correction Factor : 1.000000  
 Standard concentration factor : 1.000000

ID# : 9  
 Name : Ethanol  
 Type : Target  
 Channel : Ch1  
 Retention Time : 16.000 min  
 Retention Index : 0  
 Concentration : [1]=3.010594 [2]=1.02339 [3]=0.5257763  
                   [4]=0.2939754 [5]=0.0961865 [6]=0.04960971  
                   [7]=0.01299818 [8]=100  
 Peak Selection : Default(Closest Peak)  
 Calculated by : Default(Area)  
 Curve Fit Type : Default(Linear)  
 Zero : Default(Not Forced)  
 Weight : Default(None)  
 Window/Band : Default(Window)  
 Spiked : 0.000  
 1st Coefficient : 2.104384e+006  
 Intersection : -1.035945e+004  
 Correction Factor : 1.000000  
 Standard concentration factor : 1.000000

ID# : 10  
 Name : Propionsäure  
 Type : Target  
 Channel : Ch1  
 Retention Time : 13.600 min  
 Retention Index : 0  
 Concentration : [1]=2.962704 [2]=0.9915078 [3]=0.5019324  
                   [4]=0.3085198 [5]=0.1036906 [6]=0.04835313  
                   [7]=0.01168534 [8]=100  
 Peak Selection : Default(Closest Peak)  
 Calculated by : Default(Area)  
 Curve Fit Type : Default(Linear)  
 Zero : Default(Not Forced)  
 Weight : Default(None)  
 Window/Band : Default(Window)  
 Spiked : 0.000  
 1st Coefficient : 4.588686e+006  
 Intersection : -2.000950e+003  
 Correction Factor : 1.000000  
 Standard concentration factor : 1.000000

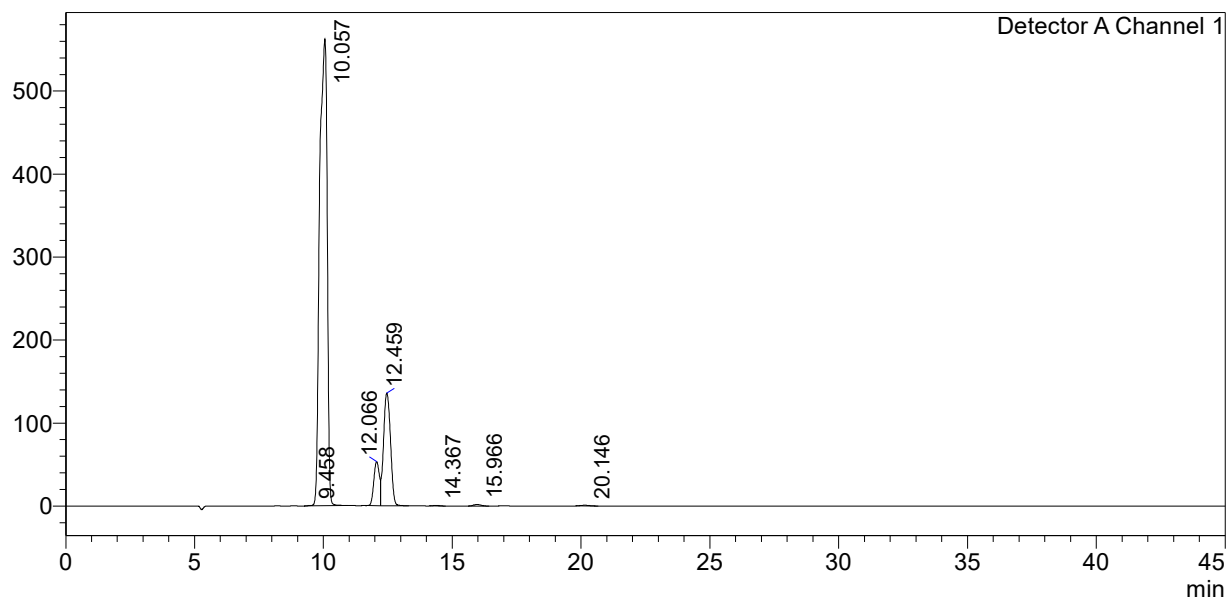
## &lt;&lt;Column Performance&gt;&gt;

## &lt;Detector A&gt;

Calculation Method : USP  
 Unretained Peak Time : Time at 1st Peak  
 Column Length : 150 mm  
 Calculate Identified Peaks Only : Off  
 Calculation of Relative Retention Time : Off

## &lt;Chromatogram&gt;

mV



## &lt;Peak Table&gt;

Detector A Channel 1

Peak#	Ret. Time	Area	Height	Conc.	Unit	Mark	Name
1	9.458	5140	470	0.000			
2	10.057	11466255	562560	1.524	mol/L	V	Glycerin
3	12.066	797900	53127	0.186	mol/L		Ethylenglykol
4	12.459	2576465	135760	0.436	mol/L	V	1,2 Propandiol
5	14.367	9953	593	0.017	mol/L		Methanol
6	15.966	34961	1756	0.022	mol/L		Ethanol
7	20.146	20807	851	0.012	mol/L		n-Propanol
Total		14911481	755116				