

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

Sample Name	: DL V23 R10		
Sample ID	:		
Data Filename	: DL V23 R10_20241121_DL V23_SFB_B_ST1_0.8 mL_45 min_Start_004.lcd		
Method Filename	: SFB_B_ST1_0.8 mL_45 min_Start.lcm		
Batch Filename	: 20241203_DL V23-24 Postrun.lcb		
Vial #	: 1-22	Sample Type	: Unknown
Injection Volume	: 10 uL		
Date Acquired	: 11/21/2024 1:24:02 PM	Acquired by	: System Administrator
Date Processed	: 12/3/2024 8:36:31 AM	Processed by	: System Administrator

---

## <Method>

### <<Header>>

Generated	: 4/24/2024 3:47:23 PM
GeneratedBy	: System Administrator
Modified	: 12/3/2024 8:25:24 AM
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	: 20.00 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

## &lt;&lt;Detector A&gt;&gt;

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

## &lt;&lt;LC Time Program&gt;&gt;

Time	Module	Command	Value	Comment
0.01	RID-20A(DET.A)	Zero		
45.00	Controller	Stop		

## &lt;&lt;Peak Integration&gt;&gt;

## &lt;Detector A&gt;

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;

## &lt;Detector A&gt;

Channel : Ch1  
 Time Program : None

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

## &lt;Detector A&gt;

Channel : Ch1  
 Time Program : None

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

## &lt;Detector A&gt;

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

## &lt;&lt;Quantitative&gt;&gt;

## &lt;Detector A&gt;

Quantitative Method : External Standard  
 Calculated by : Area  
 # of Calibration Levels : 14  
 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]=3.016738	[9]=1.049395
	[10]=0.4943277	[11]=0.2893701	[12]=0.1127578
	[13]=0.06136267	[14]=0.01619725	

Peak Selection	: [13]-0.68136267
Calculated by	: Default(Closest Peak)
Curve Fit Type	: Default(Linear)
Zero	: Default(Not Forced)
Weight	: Default(None)
Window/Band	: Default(Window)
Spiked	: 0.000
1st Coefficient	: 4.720087e+005
Intersection	: 1.693726e+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]=2.958375	[9]=1.078646
	[10]=0.5353454	[11]=0.3066948	[12]=0.114594
	[13]=0.05901699	[14]=0.0117174	

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	: 7.326784e+006
Intersection	: 2.573900e+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]=3.02526	[9]=1.092217
	[10]=0.5139845	[11]=0.3105323	[12]=0.09785473
	[13]=0.04497364	[14]=0.01087275	

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	: 3.955755e+006
Intersection	: -2.585461e+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]=2.977546 [9]=1.016412  
                   [10]=0.5030017 [11]=0.3027638 [12]=0.1023958  
                   [13]=0.04970167 [14]=0.01157971  
 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 : 5.771075e+006  
 Intersection : 6.007717e+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]=2.976375 [9]=0.9968958  
                   [10]=0.4990984 [11]=0.2900131 [12]=0.10734  
                   [13]=0.04944145 [14]=0.0100184  
 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 : 5.532080e+006  
 Intersection : 6.014722e+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]=3.03666 [9]=1.003405  
                   [10]=0.5418687 [11]=0.3101858 [12]=0.1067771  
                   [13]=0.04972951 [14]=0.01397083  
 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 : 3.797216e+006  
 Intersection : -2.284739e+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]=2.855514	[9]=0.9609004
	[10]=0.4875675	[11]=0.3072624	[12]=0.1038742
	[13]=0.04860286	[14]=0.009361501	
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	: 4.865699e+006		
Intersection	: 5.855022e+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]=2.933794	[9]=1.030353
	[10]=0.4898163	[11]=0.3033639	[12]=0.09840986
	[13]=0.059971	[14]=0.01068632	
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	: 4.284813e+006		
Intersection	: 4.449721e+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]=3.010594	[9]=1.02339
	[10]=0.5257763	[11]=0.2939754	[12]=0.0961865
	[13]=0.04960971	[14]=0.01299818	
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	: 2.109543e+006		
Intersection	: -9.590194e+003		
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]=2.962704	[9]=0.9915078
	[10]=0.5019324	[11]=0.3085198	[12]=0.1036906
	[13]=0.04835313	[14]=0.01168534	
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 : 4.601450e+006  
 Intersection : -1.609005e+003  
 Correction Factor : 1.000000  
 Standard concentration factor : 1.000000

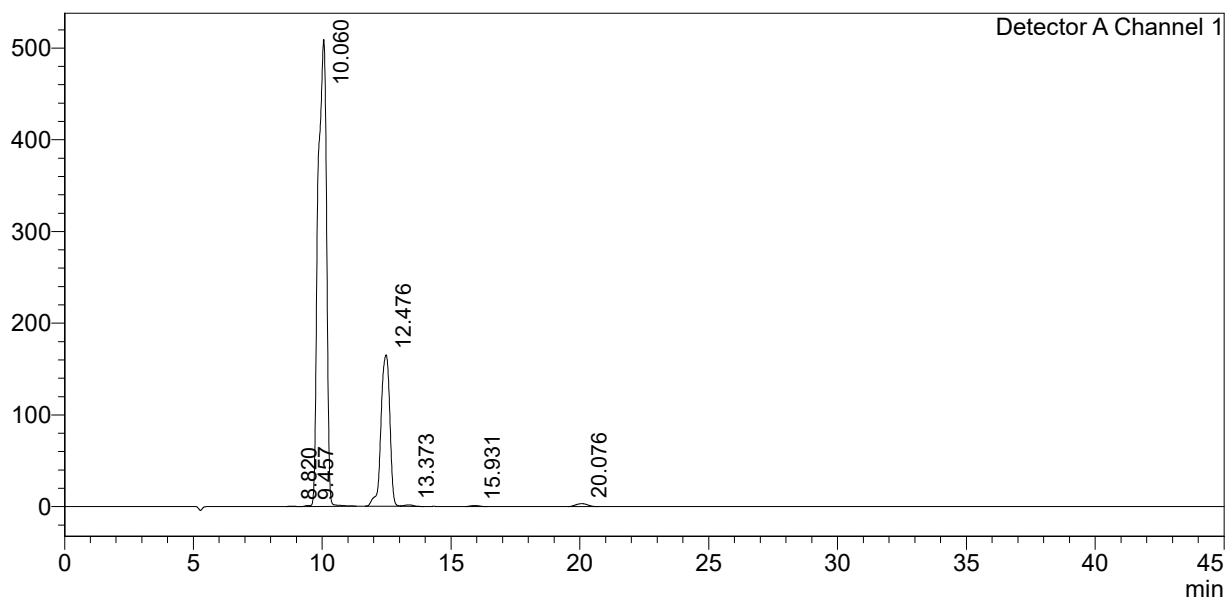
## &lt;&lt;Column Performance&gt;&gt;

## &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	8.820	6773	413	0.000			
2	9.457	13830	1121	0.000			
3	10.060	11699240	509015	1.562	mol/L	V	Glycerin
4	12.476	3962454	165155	0.676	mol/L		1,2 Propandiol
5	13.373	40644	1633	-0.004	mol/L	V	Hydroxyacetone
6	15.931	26112	1066	0.017	mol/L		Ethanol
7	20.076	101158	3132	0.032	mol/L		n-Propanol
Total		15850210	681535				