UNICORN 7.3.0 1 (12) User: AM/c304117 4/4/2024 7:26:07 AM -04:00 Method: v002 Scouting Method LA1031 CEX Text instructions Main method: 0.00 Base: CV, Vc=73.796 {1}, LA1031 CEX 26pt1cm H X 60cm D 0.00 Phase: Method Settings Base: SameAsMain 0.00 0.00 Phase: User Defined Base: SameAsMain 0.00 Set mark: (Result Name) #Result Name 0.00 0.00 Block: Start Conditions Base: SameAsMain 0.00 Air Alarm: Disabled, Disabled 0.00 Comment: Disabling Flow warning prevents "no flow" error when method is run. 0.00 Flow warning: Disabled Comment: Reduce flow deviation if method will require flowrate less than 10 L/hr 0.00 FlowDeviation FIT PA: 20.0 {1/hour}, -20.0 {1/hour}, 300.0 {sec}, Enabled FlowDeviation FIT PB: 20.0 {1/hour}, -20.0 {1/hour}, 300.0 {sec}, Enabled PIT PB: 3.00 {bar}, 0.00 {bar}, 2.70 {bar}, 0.00 {bar}, 0.00 0.00 {bar}, Enabled PIT PA: 5.00 {bar}, 0.00 {bar}, 3.50 {bar}, 0.00 {bar}, 0.00 0.00 {bar}, Enabled Comment: For valley or peak cut, see method notes for quidance to set the UV MinPeak 0.00 UV MinPeak: 0.0000 {AU}, 0.0000 {AU}, 0.0000 {AU} Wavelength: 280 {nm}, 0 {nm}, 0 {nm} 0.00 0.00 End Block Comment: THROUGHOUT: Purge volume = 7L, 10L, and 15L for 3/8", 1/2", and 3/4" skid respectively Comment: THROUGHOUT: Manflow = 60% for 3/4" skid. Manflow = 100% for 3/8" and 1/2" skid Block: (Startup Blocks) #Startup Blocks 0.00 Base: SameAsMain 0.00 Block: Prepare Purge Col Bypass Base: Time, ColumnSameAsMain 0.00 Message: Prepare to purge column bypass line. Ensure column is bypassed. , Screen, No sound Pause: Infinite {min} 0.00 0.01 End Block 0.00 Block: Purge Inlet 5 Col Bypass Base: Volume, ColumnSameAsMain 0.00 0.00 Air Alarm: Disabled, Disabled 0.00 Inlet: Closed, Inlet5

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UNICORN 7.3.0
                                                                       2 (12)
User: AM/c304117 4/4/2024 7:26:07 AM -04:00
Method: v002 Scouting Method LA1031 CEX
        0.00
               BubbleTrap: Bypass
        0.00
               Filter: Bypass
        0.00
               Column: UpFlow
        0.00
               Outlet: Waste
               ManFlow: 60.0 {%}
        0.00
        0.00
               Set mark: Purge column bypass line with resin storage
        solution.
        Comment: Regardless of skid size, keep purge volume 10 L upflow and
        10 L downflow
                Column: DownFlow
        10.00
        20.00
                End Block
      0.00
            Block: Place Column Inline
               Base: Time, ColumnSameAsMain
        0.00
               Message: Close valves to column bypass loop and open column
        valves (column inline)., Screen, No sound
               Pause: Infinite {min}
        0.00
        0.01
               End Block
             Block: Purge Inlet Sample
      0.00
        0.00
               Base: Volume, ColumnSameAsMain
        0.00
               Air Alarm: Disabled, Disabled
        0.00
               Inlet: Sample, Closed
        0.00
               BubbleTrap: Bypass
        0.00
              Filter: Bypass
        0.00
               Column: Bypass Both
        0.00
               Outlet: Waste
        0.00
              ManFlow: 60.0 {%}
        0.00
               Set mark: Purge Inlet Sample: QD00305
        15.00
                End Block
             Block: Connect Equil to Inlet 1
               Base: Time, ColumnSameAsMain
        0.00
        0.00
               Message: Connect QD00305 to Inlet 1 and open clamps., Screen,
        No sound
        0.00
               Pause: Infinite {min}
        0.01
               End Block
      0.00
             Block: Purge Inlet 4
               Base: Volume, ColumnSameAsMain
        0.00
               Air Alarm: Disabled, Disabled
        0.00
        0.00
               Inlet: Closed, Inlet4
        0.00
               BubbleTrap: Bypass
        0.00
               Filter: Bypass
        0.00
               Column: Bypass Both
        0.00
               Outlet: Waste
        0.00
              ManFlow: 60.0 {%}
        0.00
               Set mark: Purge Inlet 4: QD00007
```

```
UNICORN 7.3.0
                                                                      3 (12)
User: AM/c304117 4/4/2024 7:26:07 AM -04:00
Method: v002 Scouting Method LA1031 CEX
        15.00
                End Block
             Block: Purge Inlet 7
      0.00
        0.00
               Base: Volume, ColumnSameAsMain
        0.00
               Air Alarm: Disabled, Disabled
        0.00
               Inlet: Closed, Inlet7
        0.00
               BubbleTrap: Bypass
        0.00
               Filter: Bypass
        0.00
               Column: Bypass Both
        0.00
               Outlet: Waste
        0.00
             ManFlow: 60.0 {%}
        0.00
              Set mark: Purge Inlet 7: QD00346
        15.00 End Block
      0.00
             End Block
           Block: (Prepare Purge Skid Filter) #Prepare Purge Skid Filter
    0.00
      0.00
             Base: Time, ColumnSameAsMain
      0.00
             Message: Prepare to purge the skid filter., Screen, No sound
             Pause: Infinite {min}
      0.00
      0.01
             End Block
           Block: (Purge Skid Filter Inlet 1) #Purge Skid Filter Inlet 1
    0.00
      0.00
             Base: Volume, ColumnSameAsMain
             Air Alarm: Disabled, Disabled
      0.00
      0.00
             Inlet: Inlet1, Closed
      0.00 BubbleTrap: Inline
      0.00 Filter: Inline
      0.00 Column: Bypass Both
      0.00
           Outlet: Waste
           ManFlow: 60.0 {%}
      0.00
      0.00 Set mark: Filter Wetting and Purge of Inlet 1 QD00305
      Comment: Regardless of skid size, keep purge volume 20 L
      20.00
              End Block
    0.00
           Block: (Flush Outlet Mainstreams Equil)
    #Flush Outlet Mainstreams Equil
      0.00 Base: Volume, ColumnSameAsMain
             Air Alarm: Disabled, Disabled
      0.00
      0.00
             Inlet: Inlet1, Closed
      0.00
           BubbleTrap: Inline
      0.00
             Filter: Inline
      0.00
             Column: Bypass Both
      0.00
             ManFlow: 60.0 {%}
             Fractions: 3, 5.0 {1}, Outlet1
      0.00
      Comment: Update end block volume to number of MS times 5L for each
      outlet
      15.00
              End Block
```

```
UNICORN 7.3.0
                                                                     4 (12)
User: AM/c304117 4/4/2024 7:26:07 AM -04:00
Method: v002 Scouting Method LA1031 CEX
         Block: (Pause attach outlet containers)
    #Pause attach outlet containers
      0.00 Base: Time, ColumnSameAsMain
            Message: Attach Outlets to effluent containers per ticket
      0.00
      instructions., Screen, No sound
      0.00 Pause: Infinite {min}
      0.01
             End Block
    0.00
           Block: (Pre-Use Sanitization) #Pre-Use Sanitization
      0.00
             Base: SameAsMain
      0.00
             Block: Pre Use Column Sanitization
        0.00
             Base: SameAsMain
        0.00
               Air Alarm: Disabled, Enabled
        0.00 FIT PB Totalizer Reset
        0.00 Inlet: Closed, Inlet4
        0.00 BubbleTrap: Inline
        0.00
             Filter: Inline
        0.00 Column: DownFlow
        0.00 Outlet: Waste
        0.00 Flow: (200) #Pre-Use Sani Flowrate {cm/h}
        0.00 Set mark: Pre-Use Column Sanitization Start
             Snapshot: Pre-Use Column Sanitization End
        2.00
        2.00
               End Block
      0.00
           Block: Pause Complete Sanitization
               Base: Time, ColumnSameAsMain
        0.00
        0.00
             Pause: 30.00 {min}
        0.01
               End Block
      0.00
           End Block
    0.00
         Block: Purge B Pump
             Base: Time, ColumnSameAsMain
      0.00
      0.00
             Air Alarm: Disabled, Disabled
             Inlet: Closed, Inlet7
      0.00
      Comment: Change inlet to match first inlet used from B pump
      0.00 BubbleTrap: Bypass
      0.00 Filter: Bypass
      0.00 Column: Bypass Both
      0.00 Outlet: Waste
      0.00 ManFlow: 60.0 {%}
      0.00 Set mark: Purge Inlet 7: QD00346
      2.00
           End Block
         Block: Purge A Pump
      0.00
           Base: Time, ColumnSameAsMain
      0.00
           Air Alarm: Disabled, Disabled
      0.00
             Inlet: Inlet1, Closed
      Comment: Change inlet to match first inlet used from A pump
```

```
UNICORN 7.3.0
                                                                    5 (12)
User: AM/c304117 4/4/2024 7:26:07 AM -04:00
Method: v002 Scouting Method LA1031 CEX
      0.00
             BubbleTrap: Inline
      0.00 Filter: Inline
      0.00
           Column: Bypass Both
      0.00 Outlet: Waste
      0.00 ManFlow: 60.0 {%}
             Set mark: Purge Inlet sample: QD00305
      0.00
      2.00
            End Block
    0.00
         Block: Equilibration
      0.00
            Base: SameAsMain
      0.00
           Air Alarm: Disabled, Enabled
      0.00 FIT PA Totalizer Reset
      0.00 FIT PB Totalizer Reset
      0.00 FIT PA+PB Totalizer Reset
      0.00 Inlet: Inlet1, Inlet7
      0.00 BubbleTrap: Inline
      0.00 Filter: Inline
      0.00 Column: DownFlow
      0.00 Outlet: Waste
      0.00 GradMode: FlowGradient
      0.00 Gradient: 10.0 {%B}, 0.00 {base}
      0.00 Flow: (200) #Equil Flowrate {cm/h}
      0.00 Set mark: Column Equil Start
      3.00 Snapshot: Equil End
      3.00 End Block
    0.00
         Block: UV Auto Zero
             Base: Time, ColumnSameAsMain
      0.00
             AT PF AZ
      0.00
      0.10
             End Block
    0.00
         Block: (Connect Charge to Inlet Sample)
    #Connect Charge to Inlet Sample
             Base: Time, ColumnSameAsMain
      0.00
           Message: Connect Charge to Inlet Sample and open clamps.,
      0.00
      Screen, No sound
      0.00
           Pause: Infinite {min}
             End Block
      0.01
    0.00
         Block: Charge
            Base: Volume, ColumnSameAsMain
      0.00
      0.00
             Snapshot: Charge Begin
            Air Alarm: Disabled, Enabled
      0.00
      0.00 FIT PA Totalizer Reset
      0.00 Inlet: Sample, Closed
      0.00 BubbleTrap: Inline
      0.00
           Filter: Inline
      0.00 Column: DownFlow
```

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UNICORN 7.3.0
                                                                    6(12)
User: AM/c304117 4/4/2024 7:26:07 AM -04:00
Method: v002 Scouting Method LA1031 CEX
             Outlet: Waste
      0.00
      0.00
           Flow: (200) #Charge Flowrate {cm/h}
      0.00
             Set mark: Column Charge Start
      (800.00) #Set Charge Volume Snapshot: Charge End
      800.00 End Block
    0.00
           Block: Post Charge Wash
      0.00
             Base: SameAsMain
      0.00
           Air Alarm: Disabled, Enabled
      0.00 FIT PA Totalizer Reset
      0.00 FIT PB Totalizer Reset
      0.00 FIT PA+PB Totalizer Reset
      0.00 Inlet: Inlet1, Inlet7
      0.00 BubbleTrap: Inline
      0.00 Filter: Inline
      0.00 Column: DownFlow
      0.00 Outlet: Waste
      0.00 GradMode: FlowGradient
      0.00 Gradient: 10.0 {%B}, 0.00 {base}
      0.00 Flow: (200) #Post Charge Wash Flowrate {cm/h}
      0.00 Set mark: Post Charge Wash
      2.00 Snapshot: Post Charge Wash End
      2.00
             Watch off: AT PF UV 1
      2.00
             End Block
    0.00
         Block: (Elution) #Elution
      0.00
             Base: SameAsMain
      0.00 Air Alarm: Disabled, Enabled
      0.00 FIT PA Totalizer Reset
      0.00 FIT PB Totalizer Reset
      0.00 FIT PA+PB Totalizer Reset
      0.00 Inlet: Inlet1, Inlet7
      0.00 BubbleTrap: Inline
      0.00 Filter: Inline
      0.00 Column: DownFlow
      0.00
           Outlet: Waste
      0.00 Flow: (200) #Elution Flowrate {cm/h}
      Comment: FS will go to Outlet Waste
      0.00 Gradient: 90.0 {%B}, 10.00 {base}
           GradMode: FlowGradient
      0.00
      0.00 Set mark: Elution - FS
      0.00
             Snapshot: Start FS
      0.00
             Watch: PIT PA., Greater than, 3.00 {bar}, Elution Message
        0.00
               Base: SameAsMain
        0.00
               Message: Pause during elution may trigger UV and impact
        mainstream collection, Screen, No sound
```

```
UNICORN 7.3.0
                                                                      7(12)
User: AM/c304117 4/4/2024 7:26:07 AM -04:00
Method: v002 Scouting Method LA1031 CEX
        0.00
               End Block
             Watch: PIT_PB., Greater than, 2.50 {bar}, Elution Message PB
      0.00
        0.00
               Base: SameAsMain
               Message: Pause during elution may trigger UV and impact
        mainstream collection, Screen, No sound
        0.00
               End Block
      0.00
           Watch: PIT PB., Greater than, 2.70 {bar}, Slow Flow
        0.00
               Base: SameAsMain
               Flow: (150) #Reduced Elution Flow {cm/h}
        0.00
        0.00
               End Block
      Comment: LHM4350 Compensation Factor w/2mm Path = 4.92
             Block: Watch UV
               Base: SameAsMain
        0.00
        0.00
               Watch: AT PF UV 1, Greater than, 0.2033 {AU}, Collect Peak
          0.00
                 Base: SameAsMain
                 Outlet: (Outlet1) #MS Outlet
          0.00
          0.00
                 Set mark: Elution - MS
          0.00
                 Snapshot: Start MS Collection
          0.00
                 Watch: AT PF UV 1, Greater than, 1.5000 {AU},
          watch Less Than
            0.00
                   Base: SameAsMain
            0.00
                   Watch: AT PF UV 1, Less than, 0.8130 {AU}, End block
            0.00
                   End Block
          0.00 End Block
        0.00
             End Block
            Gradient: 90.0 {%B}, 0.00 {base}
      10.00
      10.00
            GradMode: FlowGradient
      12.00
            Snapshot: Elution End
      12.00
             Watch off: AT PF UV 1
      12.00
              End Block
         Block: (Elution Full Backside) #Elution_Full_Backside
    0.00
      0.00
             Base: SameAsMain
             Air Alarm: Disabled, Enabled
      0.00
      0.00
             FIT PA Totalizer Reset
             FIT PB Totalizer Reset
      0.00
      0.00
             FIT PA+PB Totalizer Reset
      0.00
             Inlet: Inlet1, Inlet7
      0.00
           BubbleTrap: Inline
      0.00
            Filter: Inline
      0.00 Column: DownFlow
           Outlet: Waste
      0.00
      0.00 Flow: (200) #Elution Flowrate {cm/h}
      Comment: FS will go to Outlet Waste
      0.00 GradMode: FlowGradient
```

```
UNICORN 7.3.0
                                                                     8 (12)
User: AM/c304117 4/4/2024 7:26:07 AM -04:00
Method: v002 Scouting Method LA1031 CEX
      0.00
             Gradient: 90.0 {%B}, 10.00 {base}
      0.00
             Set mark: Elution - FS
      0.00
             Snapshot: Start FS
      0.00
           Watch: PIT PA., Greater than, 3.00 {bar}, Elution Message
               Base: SameAsMain
        0.00 Message: Pause during elution may trigger UV and impact
        mainstream collection, Screen, No sound
        0.00
               End Block
      0.00
            Watch: PIT PB., Greater than, 2.50 {bar}, Elution Message PB
        0.00
               Base: SameAsMain
        0.00
             Message: Pause during elution may trigger UV and impact
        mainstream collection, Screen, No sound
             End Block
      Comment: LHM4350 Compensation Factor w/2mm Path = 4.92
           Watch: PIT PB., Greater than, 2.70 {bar}, Slow Flow
        0.00
             Base: SameAsMain
        0.00
               Flow: (150) #Reduced Elution Flow {cm/h}
        0.00
               End Block
      0.00
           Block: Watch UV 1
        0.00
               Base: SameAsMain
        0.00
               Watch: AT PF UV 1, Greater than, 0.2033 {AU}, Collect Peak 1
          0.00
                 Base: SameAsMain
          0.00 Outlet: (Outlet1) #MS Outlet
          0.00 Set mark: Elution - MS
          0.00 Snapshot: Start MS Collection
          0.00
                 Watch: AT PF UV 1, Greater than, 1.5000 {AU},
          watch Less Than \overline{1}
            0.00
                  Base: SameAsMain
                  Watch: AT PF UV 1, Less than, 0.8130 {AU}, stop Collect
              0.00
                    Base: SameAsMain
              0.00 Outlet: Waste
              0.00
                     Set mark: Elution - BS
              0.00 Snapshot: Mainstream Collection End -Start BS
              Comment: BS will go to Outlet Waste
              0.00 End Block
            0.00 End Block
          0.00 End Block
        0.00 End Block
      10.00 Gradient: 90.0 {%B}, 0.00 {base}
      10.00
            GradMode: FlowGradient
      12.00 Snapshot: Elution End
      12.00
              Watch off: AT PF UV 1
      12.00
              End Block
    0.00
          Block: Post Use Sanitization
```

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UNICORN 7.3.0
                                                                     9 (12)
User: AM/c304117 4/4/2024 7:26:07 AM -04:00
Method: v002 Scouting Method LA1031 CEX
      0.00
             Base: SameAsMain
      0.00
             Block: Post Use Column Sanitization
        0.00
               Base: SameAsMain
        Comment: Turn off the pressure watches from Elution:
               Watch off: PIT PA.
               Watch off: PIT PB.
        0.00
        0.00
               Watch off: AT PF UV 1
        0.00
               New chromatogram: PostUseColSanitz
              Snapshot: Mainstream End, Begin Post Use Column Sanitization
        0.00
        0.00 FIT PB Totalizer Reset
        0.00
              Inlet: Closed, Inlet4
        0.00 BubbleTrap: Inline
        0.00
             Filter: Inline
        0.00 Column: UpFlow
        0.00 Outlet: Waste
        0.00 Flow: (200) #Post Use Sani Flowrate {cm/h}
        0.00
             Injection Mark
        0.00 Set mark: Post Use Column Sanitization Start
        2.00
               FlowDeviation FIT PA: 20.0 {1/hour}, -20.0 {1/hour}, 300.0
        {sec}, Disabled
              FlowDeviation FIT PB: 20.0 {1/hour}, -20.0 {1/hour}, 300.0
        {sec}, Disabled
        2.00
               Snapshot: End Post Use Column Sanitization
        2.00
               End Block
      0.00
           Block: Pause Complete Sanitization
        0.00 Base: Time, ColumnSameAsMain
        0.00
             Pause: 30.00 {min}
        0.01
               End Block
      0.00
            End Block
    0.00
           Block: (Column Storage) #Column Storage
      0.00
             Base: SameAsMain
             FlowDeviation FIT PA: 20.0 {1/hour}, -20.0 {1/hour}, 300.0
      0.00
      {sec}, Enabled
             FlowDeviation FIT PB: 20.0 {1/hour}, -20.0 {1/hour}, 300.0
      0.00
      {sec}, Enabled
      0.00 Air_Alarm: Disabled, Enabled
      0.00 FIT PB Totalizer Reset
      0.00 Inlet: Closed, Inlet5
      0.00 BubbleTrap: Inline
      0.00 Filter: Inline
      0.00 Column: UpFlow
      0.00 Outlet: Waste
      0.00 Flow: (200) #Storage Flowrate {cm/h}
      0.00 Set mark: Column Storage
```

UNICORN 7.3.0 10(12)

User: AM/c304117 4/4/2024 7:26:07 AM -04:00

Method: v002 Scouting Method LA1031 CEX

- 2.00 Snapshot: Column Storage
- 2.00 End Block
- 0.00 Block: (Blank) #Blank
 - 0.00 Base: SameAsMain
 - 0.00 End Block
- 0.00 Block: Return_to_Default
 - 0.00 Base: Time, Any
 - 0.00 ManFlow: 0.0 {%}
 - 0.05 Filter: Bypass
 - 0.10 Column: Bypass Both
 - 0.15 BubbleTrap: Inline
 - 0.15 Inlet: Closed, Closed
 - 0.50 Outlet: Closed
 - 0.50 End Block
- 0.00 Block: End_of_Run_Delay
 - 0.00 Base: Time, Any
 - 0.10 End Block

Scouting

Included	Startup_Blocks		Purge_Skid_Filte r Inlet 1
Yes	Startup_Blocks		Purge_Skid_Filte r Inlet 1
Yes	Blank	Blank	Blank
Yes	Blank	Blank	Blank
Included			
Yes	Flush_Outlet_Mai	Pause_attach_out	Pre-
Yes	Blank	Blank	Blank
Yes	Blank	Blank	Blank
Included	Pre- Use_Sani_Flowrat e	Equil_Flowrate	Connect_Charge_t o_Inlet_Sample
Yes	200	200	<pre>Connect_Charge_t o Inlet Sample</pre>
37			
Yes	200	200	Blank
Yes	200	200	Blank Connect_Charge_t o_Inlet_Sample
		200	Connect_Charge_t o_Inlet_Sample Post_Charge_Wash
Yes	200	200 Set_Charge_Volum	Connect_Charge_t o_Inlet_Sample
	Yes Yes Yes Included Yes Yes Yes Yes Yes Included	Yes Startup_Blocks Yes Blank Yes Blank Included Flush_Outlet_Mainstreams_Equil Yes Flush_Outlet_Mainstreams_Equil Yes Blank Yes Blank Included Pre-Use_Sani_Flowrate Yes 200	Yes Startup_Blocks Prepare_Purge_Sk id_Filter Yes Blank Blank Yes Blank Blank Included Flush_Outlet_Mai Pause_attach_out nstreams_Equil let_containers Yes Flush_Outlet_Mai Pause_attach_out nstreams_Equil let_containers Yes Blank Blank Yes Blank Blank Included Pre- Equil_Flowrate Use_Sani_Flowrat e Yes 200 200

UNICORN 7.3.0 11(12)

User: AM/c304117 4/4/2024 7:26:07 AM -04:00

Method: v002 Scouting Method LA1031 CEX

Run	Included	Charge_Flowrate	e	Post_Charge_Wash _Flowrate
3	Yes	200	800.00	200
Run	Included	Elution	Elution_Flowrate	Reduced_Elution_ Flow
1	Yes	Blank	200	150
2	Yes	Elution	200	150
3	Yes	Elution	200	150
Run	Included	MS_Outlet	Elution_Full_Bac kside	Post_Use_Sani_Fl owrate
1	Yes	Outlet1	Elution_Full_Bac kside	200
2	Yes	Outlet2	Blank	200
3	Yes	Outlet3	Blank	200
Run	Included	Column_Storage	Storage_Flowrate	Blank
1	Yes	Blank	200	Blank
2	Yes	Blank	200	Blank
3	Yes	Column_Storage	200	Blank

Method information

Signatures

Date:4/4/2024 7:25:37 AM -04:00

Description: This method is signed for LA1031 CEX on 4Apr2024

User name:c304117
Full name:Helen Corbat

Job title:Engineer - BRD Technical Operations

Lock status: The item is locked

Questions

No. 1: Is QD00305 connected to Inlet Sample?

Question type: Mandatory
Answer type: Multiple choice

No. 2: Is QD00007 connected to Inlet 4?

Question type: Mandatory Answer type: Textual input

No. 3: Is QD00008 connected to Inlet 5?

Question type: Mandatory Answer type: Multiple choice

No. 4: Is QD00346 connected to Inlet 7?

UNICORN 7.3.0 User: AM/c304117 4/4/2024 7:26:07 AM -04:00 Method: v002 Scouting Method LA1031 CEX	12(12)				
Question type: Mandatory					