

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN041425\  
 Data File : VN086271.D  
 Acq On : 14 Apr 2025 16:02  
 Operator : JC\MD  
 Sample : PB167573ZHE#11  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB167573ZHE#11

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 04/16/2025  
 Supervised By :Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 15 03:12:46 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N041125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Apr 12 01:21:52 2025  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|----------|--------|----------|
| -----                       |                |      |            |          |        |          |
| Internal Standards          |                |      |            |          |        |          |
| 1) Bromochloromethane       | 7.812          | 128  | 33842      | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 9.100          | 114  | 203544     | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 11.865         | 117  | 176498     | 30.000   | ug/l   | 0.00     |
|                             |                |      |            |          |        |          |
| System Monitoring Compounds |                |      |            |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 8.577          | 65   | 98161      | 29.738   | ug/l   | 0.00     |
| Spiked Amount 30.000        | Range 91 - 110 |      | Recovery = | 99.133%  |        |          |
| 60) 4-Bromofluorobenzene    | 12.847         | 95   | 98553      | 28.046   | ug/l   | 0.00     |
| Spiked Amount 30.000        | Range 63 - 112 |      | Recovery = | 93.500%  |        |          |
| 63) Toluene-d8              | 10.565         | 98   | 301204     | 30.228   | ug/l   | 0.00     |
| Spiked Amount 30.000        | Range 91 - 112 |      | Recovery = | 100.767% |        |          |
|                             |                |      |            |          |        |          |
| Target Compounds            |                |      |            |          |        |          |
| 12) Methyl Acetate          | 5.024          | 43   | 5676m      | 1.560    | ug/l   | Qvalue   |
| 15) Acetone                 | 4.430          | 58   | 11807      | 30.311   | ug/l   | 74       |
| 18) Methylene Chloride      | 5.277          | 84   | 7828       | 2.664    | ug/l # | 94       |
| 44) Isopropyl Acetate       | 8.683          | 43   | 44366m     | 5.868    | ug/l   |          |
| -----                       |                |      |            |          |        |          |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

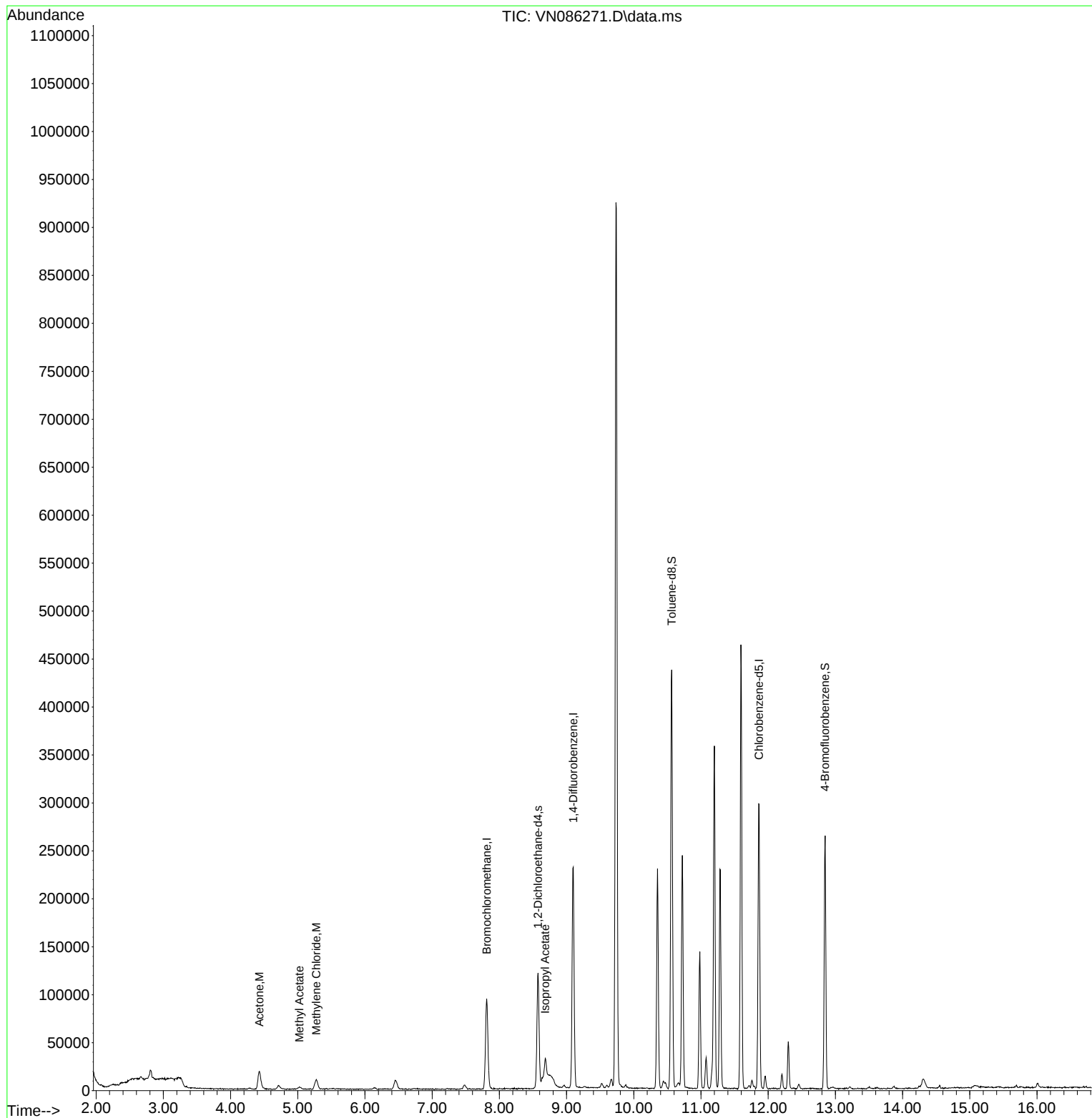
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN041425\  
Data File : VN086271.D  
Acq On : 14 Apr 2025 16:02  
Operator : JC\MD  
Sample : PB167573ZHE#11  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 16 Sample Multiplier: 1

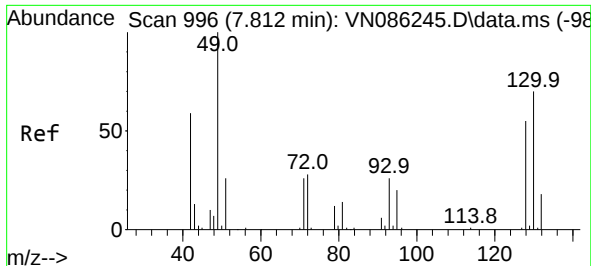
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167573ZHE#11

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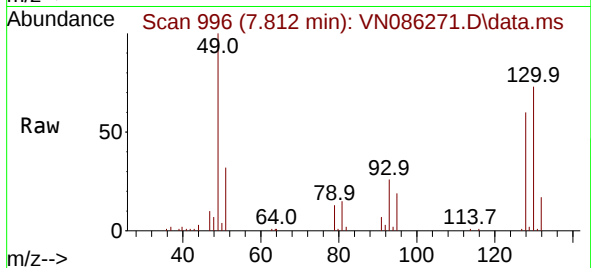
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N041125W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Sat Apr 12 01:21:52 2025  
Response via : Initial Calibration





#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.812 min Scan# 996  
Delta R.T. 0.000 min  
Lab File: VN086271.D  
Acq: 14 Apr 2025 16:02

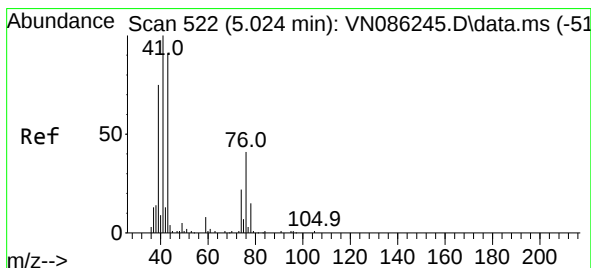
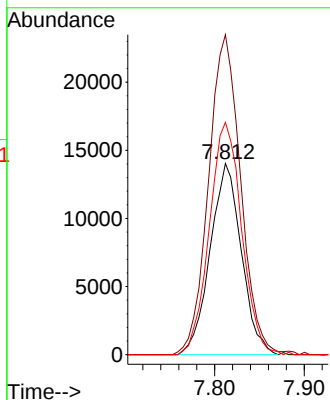
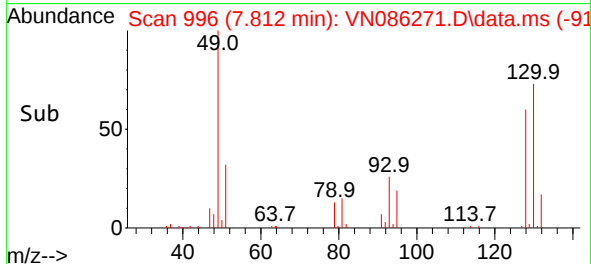
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167573ZHE#11



Tgt Ion:128 Resp: 3384  
Ion Ratio Lower Upper  
128 100  
49 172.4 0.0 452.5  
130 126.1 0.0 315.0

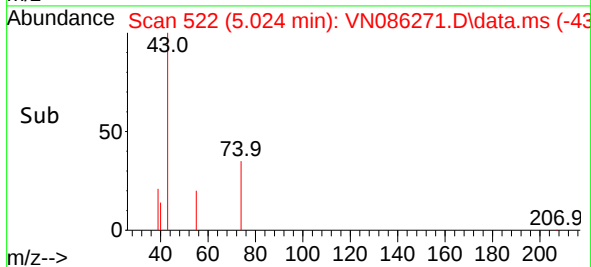
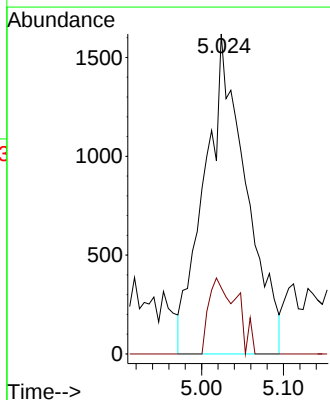
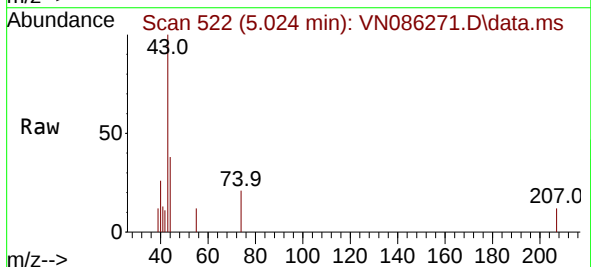
Manual Integrations  
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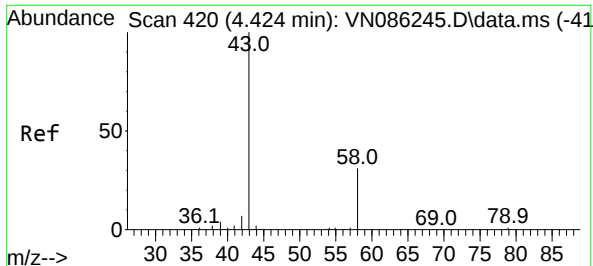
Reviewed By :John Carlone 04/16/2025  
Supervised By :Semsettin Yesilyurt 04/16/2025



#12  
Methyl Acetate  
Concen: 1.560 ug/l m  
RT: 5.024 min Scan# 522  
Delta R.T. -0.000 min  
Lab File: VN086271.D  
Acq: 14 Apr 2025 16:02

Tgt Ion: 43 Resp: 5676  
Ion Ratio Lower Upper  
43 100  
74 20.7 19.1 28.7





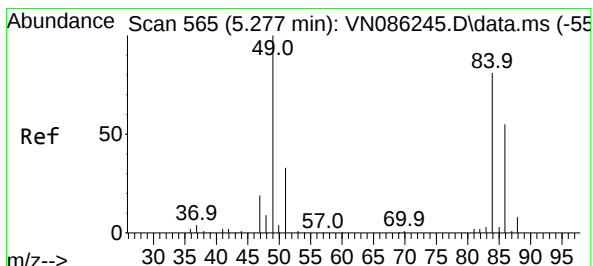
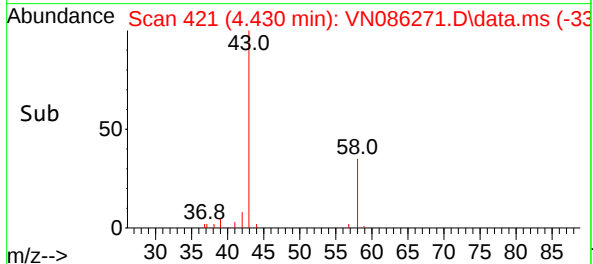
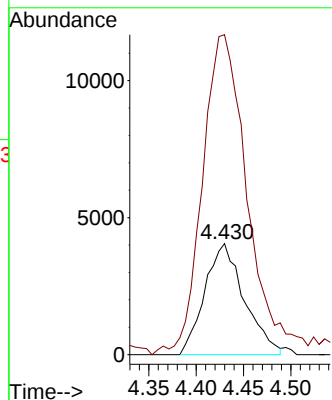
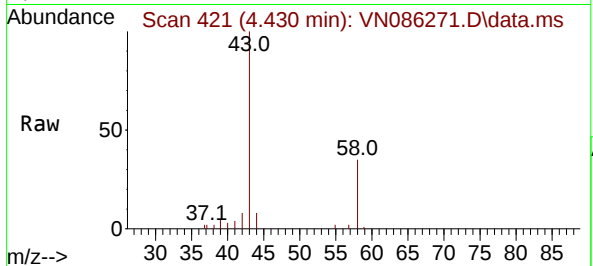
#15  
Acetone  
Concen: 30.311 ug/l  
RT: 4.430 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VN086271.D  
Acq: 14 Apr 2025 16:02

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167573ZHE#11

Tgt Ion: 58 Resp: 1180  
Ion Ratio Lower Upper  
58 100  
43 273.0 261.8 392.8

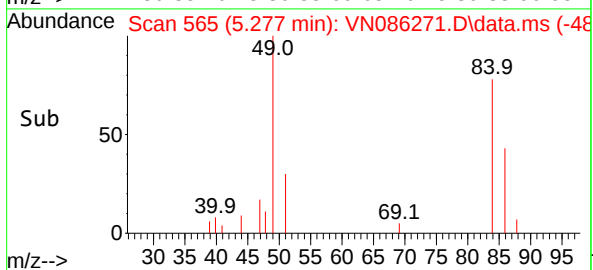
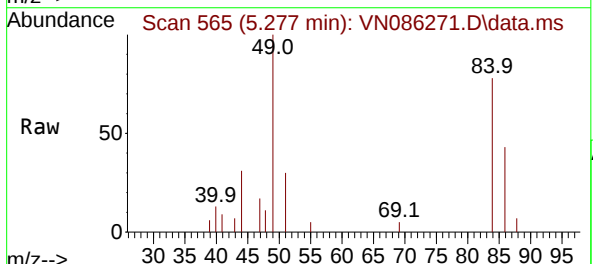
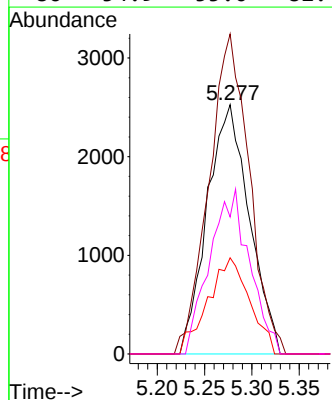
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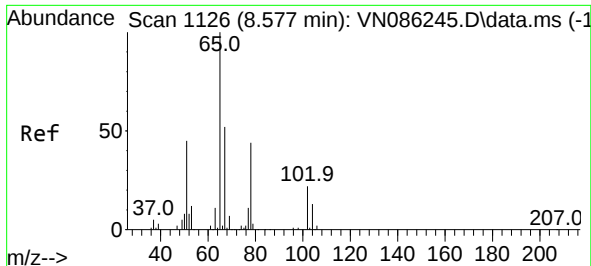
Reviewed By :John Carlone 04/16/2025  
Supervised By :Semsettin Yesilyurt 04/16/2025



#18  
Methylene Chloride  
Concen: 2.664 ug/l  
RT: 5.277 min Scan# 565  
Delta R.T. -0.000 min  
Lab File: VN086271.D  
Acq: 14 Apr 2025 16:02

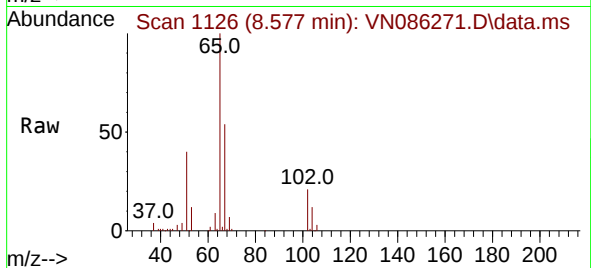
Tgt Ion: 84 Resp: 7828  
Ion Ratio Lower Upper  
84 100  
49 121.9 99.1 148.7  
51 38.6 32.3 48.5  
86 54.9 55.0 82.4#





#27  
1,2-Dichloroethane-d4  
Concen: 29.738 ug/l  
RT: 8.577 min Scan# 1126  
Delta R.T. -0.000 min  
Lab File: VN086271.D  
Acq: 14 Apr 2025 16:02

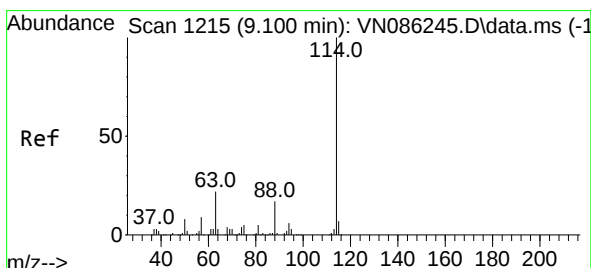
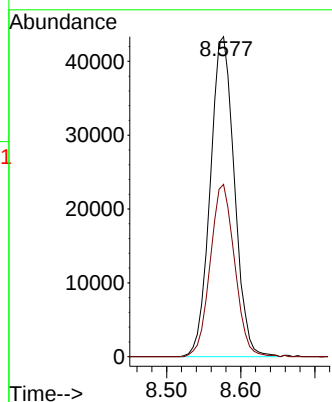
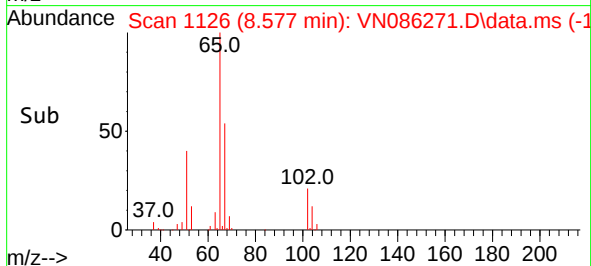
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167573ZHE#11



Tgt Ion: 65 Resp: 9816  
Ion Ratio Lower Upper  
65 100  
67 54.2 43.4 65.2

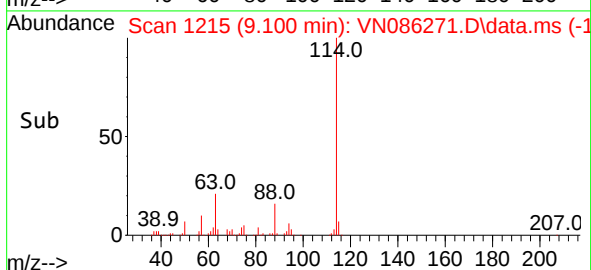
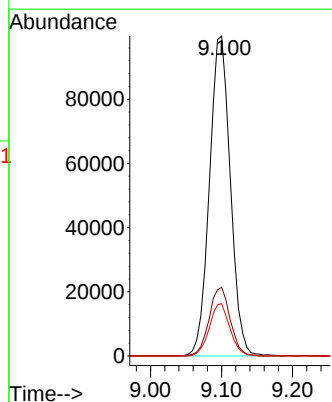
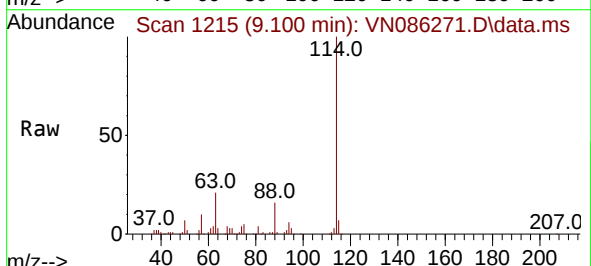
Manual Integrations  
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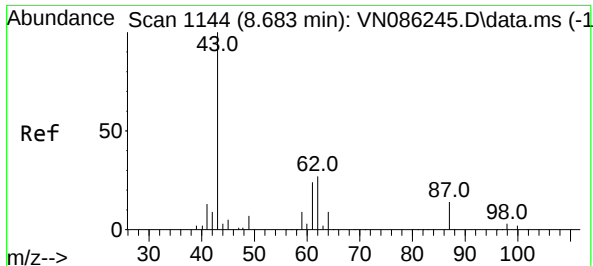
Reviewed By :John Carlone 04/16/2025  
Supervised By :Semsettin Yesilyurt 04/16/2025



#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 9.100 min Scan# 1215  
Delta R.T. -0.000 min  
Lab File: VN086271.D  
Acq: 14 Apr 2025 16:02

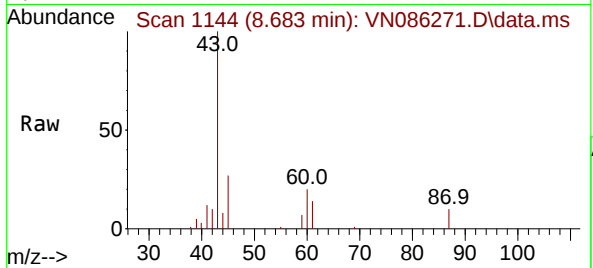
Tgt Ion:114 Resp: 203544  
Ion Ratio Lower Upper  
114 100  
63 21.6 17.8 26.6  
88 16.1 13.4 20.2





#44  
Isopropyl Acetate  
Concen: 5.868 ug/l m  
RT: 8.683 min Scan# 1144  
Delta R.T. -0.000 min  
Lab File: VN086271.D  
Acq: 14 Apr 2025 16:02

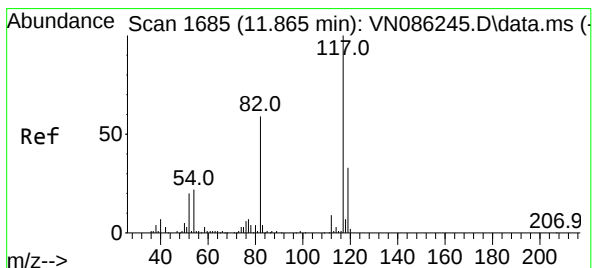
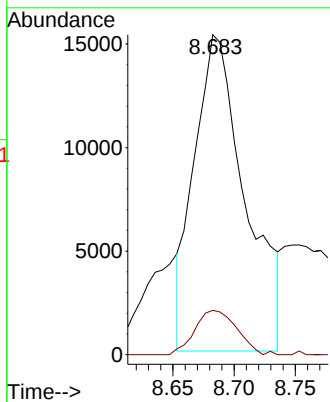
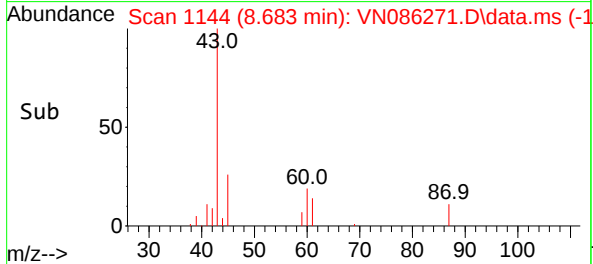
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167573ZHE#11



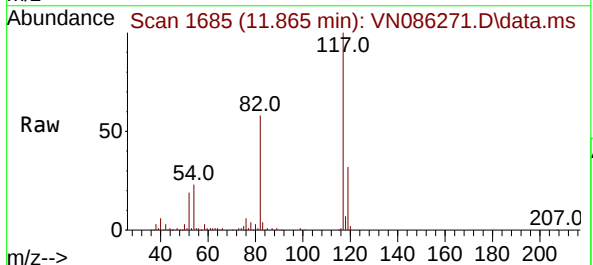
Tgt Ion: 43 Resp: 44360  
Ion Ratio Lower Upper  
43 100  
61 11.4 20.5 30.7

Manual Integrations  
APPROVED

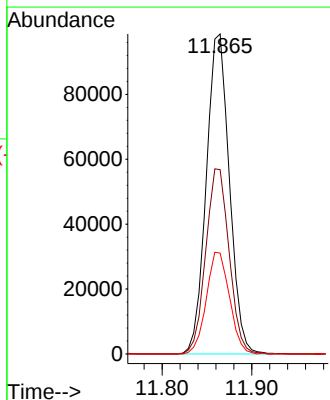
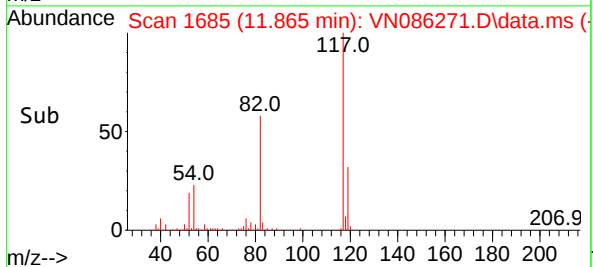
Reviewed By :John Carlone 04/16/2025  
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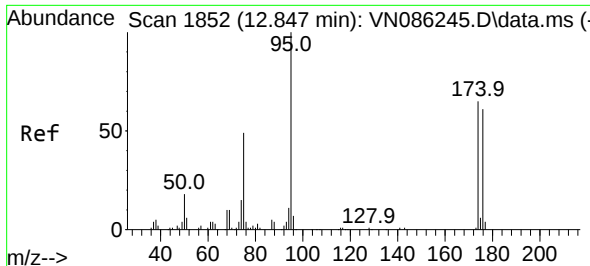


#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VN086271.D  
Acq: 14 Apr 2025 16:02



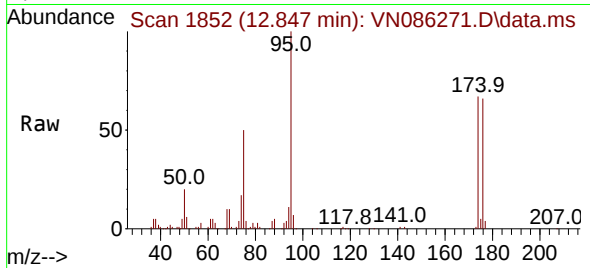
Tgt Ion:117 Resp: 176498  
Ion Ratio Lower Upper  
117 100  
82 58.6 47.3 70.9  
119 31.9 25.9 38.9





#60  
4-Bromofluorobenzene  
Concen: 28.046 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN086271.D  
Acq: 14 Apr 2025 16:02

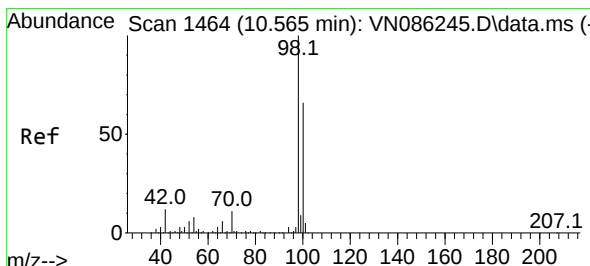
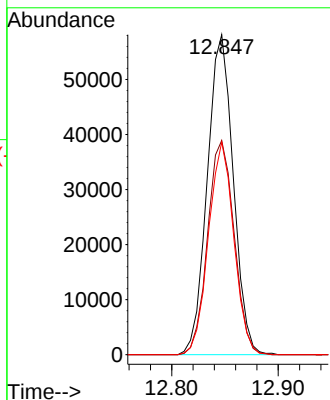
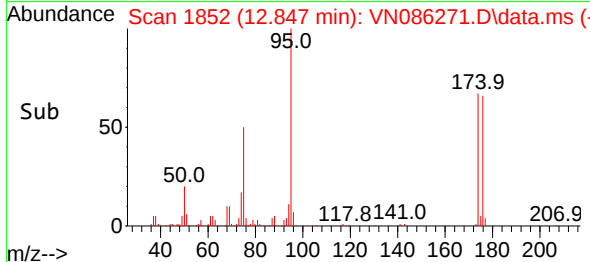
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167573ZHE#11



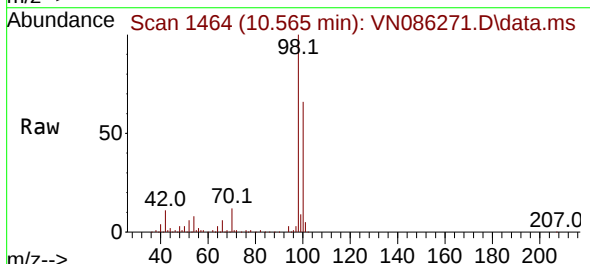
Tgt Ion: 95 Resp: 9855  
Ion Ratio Lower Upper  
95 100  
174 68.2 52.7 79.1  
176 64.8 49.8 74.8

Manual Integrations  
APPROVED

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Supervised By :Semsettin Yesilyurt 04/16/2025



#63  
Toluene-d8  
Concen: 30.228 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN086271.D  
Acq: 14 Apr 2025 16:02



Tgt Ion: 98 Resp: 301204  
Ion Ratio Lower Upper  
98 100  
100 66.5 52.3 78.5

