

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN043025\  
 Data File : VN086446.D  
 Acq On : 30 Apr 2025 19:06  
 Operator : JC\MD  
 Sample : PB167775ZHE#16  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB167775ZHE#16

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/02/2025  
 Supervised By : Semsettin Yesilyurt 05/05/2025

Quant Time: May 01 01:37:02 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N041525W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 16 04:19:23 2025  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response   | Conc     | Units | Dev(Min) |
|-----------------------------|----------------|------|------------|----------|-------|----------|
| -----                       |                |      |            |          |       |          |
| Internal Standards          |                |      |            |          |       |          |
| 1) Pentafluorobenzene       | 8.224          | 168  | 159908     | 50.000   | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene     | 9.100          | 114  | 305903     | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5        | 11.865         | 117  | 292538     | 50.000   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.788         | 152  | 128597     | 50.000   | ug/l  | 0.00     |
|                             |                |      |            |          |       |          |
| System Monitoring Compounds |                |      |            |          |       |          |
| 33) 1,2-Dichloroethane-d4   | 8.577          | 65   | 114309     | 49.296   | ug/l  | 0.00     |
| Spiked Amount 50.000        | Range 74 - 125 |      | Recovery = | 98.600%  |       |          |
| 35) Dibromofluoromethane    | 8.165          | 113  | 73133      | 51.512   | ug/l  | 0.00     |
| Spiked Amount 50.000        | Range 75 - 124 |      | Recovery = | 103.020% |       |          |
| 50) Toluene-d8              | 10.565         | 98   | 392662     | 51.749   | ug/l  | 0.00     |
| Spiked Amount 50.000        | Range 86 - 113 |      | Recovery = | 103.500% |       |          |
| 62) 4-Bromofluorobenzene    | 12.847         | 95   | 140651     | 50.821   | ug/l  | 0.00     |
| Spiked Amount 50.000        | Range 77 - 121 |      | Recovery = | 101.640% |       |          |
|                             |                |      |            |          |       |          |
| Target Compounds            |                |      |            |          |       |          |
| 11) Tert butyl alcohol      | 5.518          | 59   | 7970       | 18.838   | ug/l  | 95       |
| 16) Acetone                 | 4.430          | 43   | 34967      | 38.794   | ug/l  | 97       |
| 20) Methylene Chloride      | 5.283          | 84   | 10062      | 4.694    | ug/l  | 95       |
| 25) 2-Butanone              | 7.483          | 43   | 34578      | 23.957   | ug/l  | 96       |
| 43) Isopropyl Acetate       | 8.688          | 43   | 42022m     | 6.087    | ug/l  |          |
| -----                       |                |      |            |          |       |          |

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

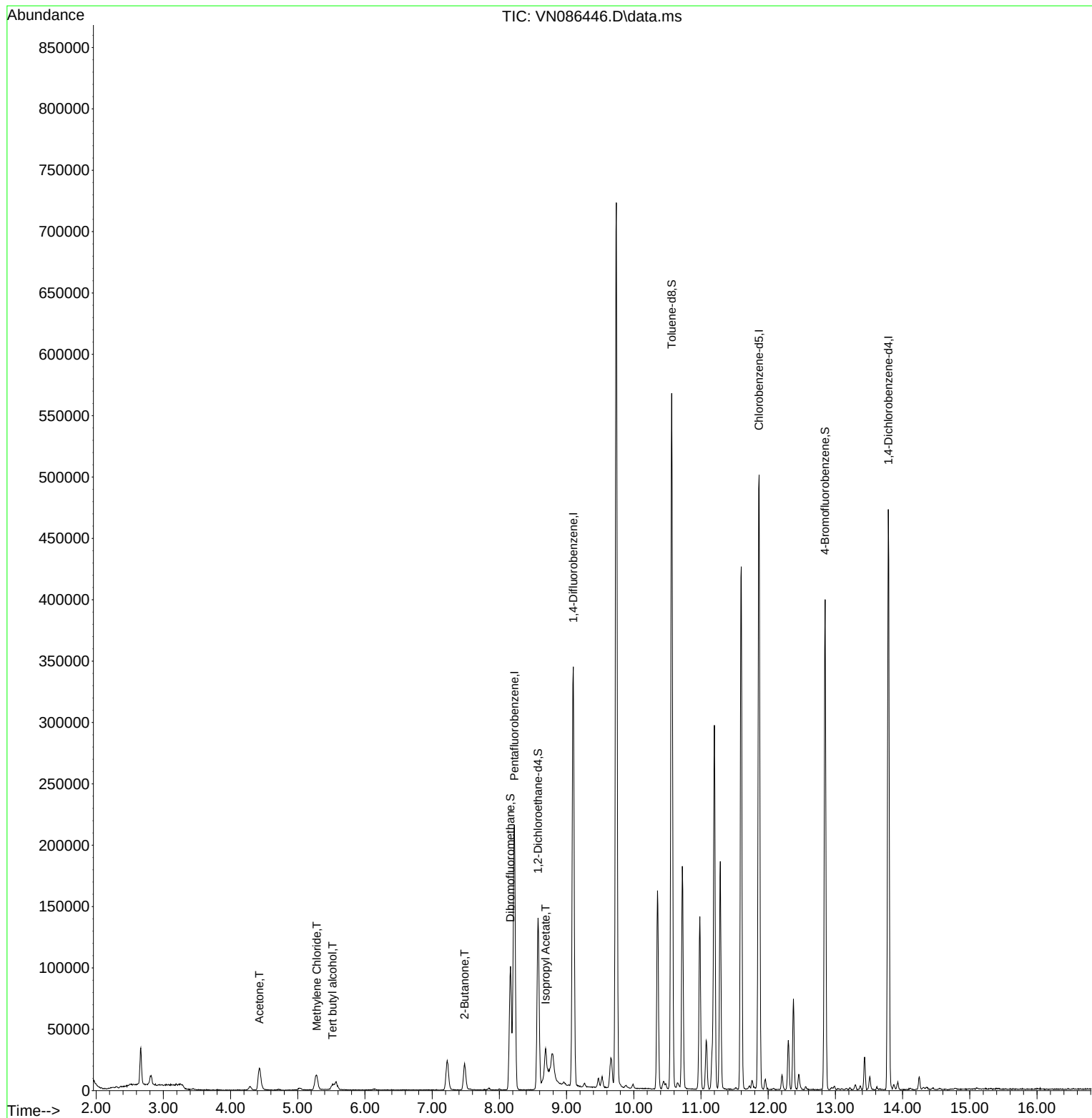
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN043025\  
Data File : VN086446.D  
Acq On : 30 Apr 2025 19:06  
Operator : JC\MD  
Sample : PB167775ZHE#16  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 23 Sample Multiplier: 1

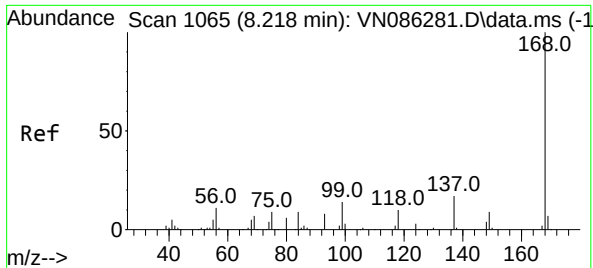
Instrument :  
MSVOA\_N  
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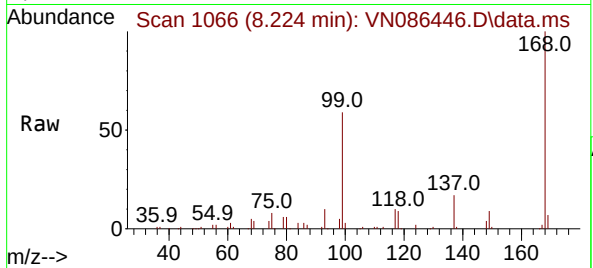
Quant Time: May 01 01:37:02 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N041525W.M  
Quant Title : SW846 8260  
QLast Update : Wed Apr 16 04:19:23 2025  
Response via : Initial Calibration





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. 0.006 min  
Lab File: VN086446.D  
Acq: 30 Apr 2025 19:06

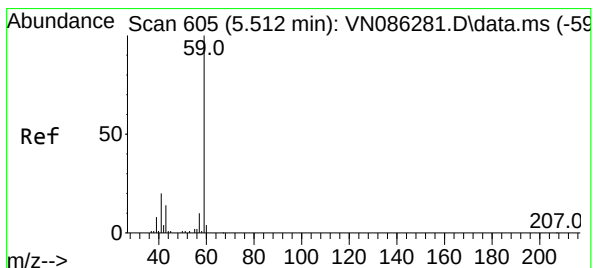
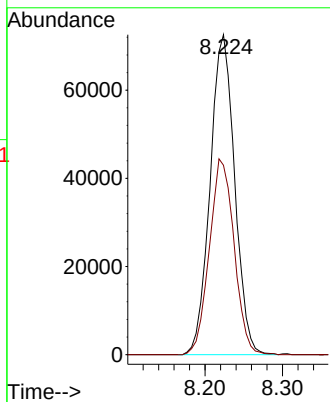
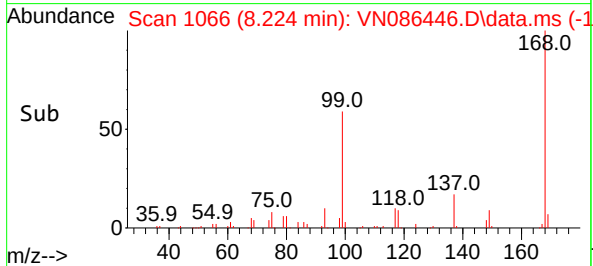
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167775ZHE#16



Tgt Ion:168 Resp: 159908  
Ion Ratio Lower Upper  
168 100  
99 59.2 52.5 78.7

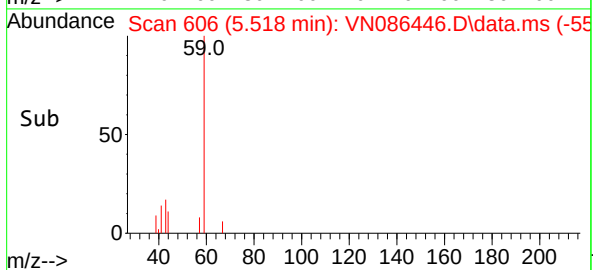
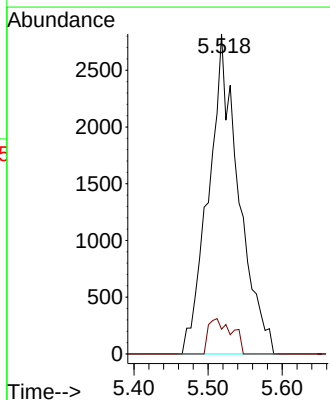
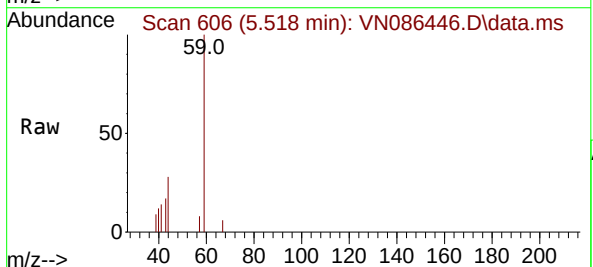
Manual Integrations  
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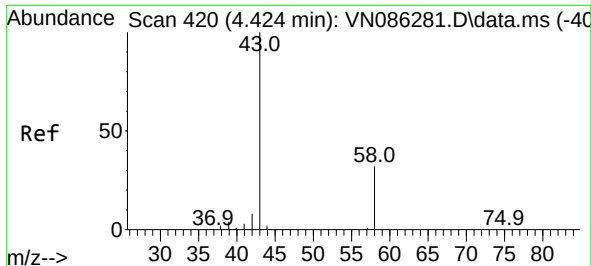
Reviewed By :John Carlone 05/02/2025  
Supervised By :Semsettin Yesilyurt 05/05/2025



#11  
Tert butyl alcohol  
Concen: 18.838 ug/l  
RT: 5.518 min Scan# 606  
Delta R.T. 0.006 min  
Lab File: VN086446.D  
Acq: 30 Apr 2025 19:06

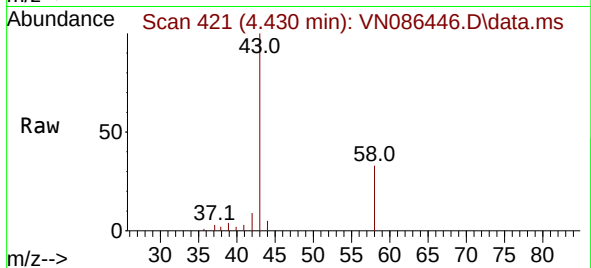
Tgt Ion: 59 Resp: 7970  
Ion Ratio Lower Upper  
59 100  
57 8.6 8.3 12.5





#16  
Acetone  
Concen: 38.794 ug/l  
RT: 4.430 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VN086446.D  
Acq: 30 Apr 2025 19:06

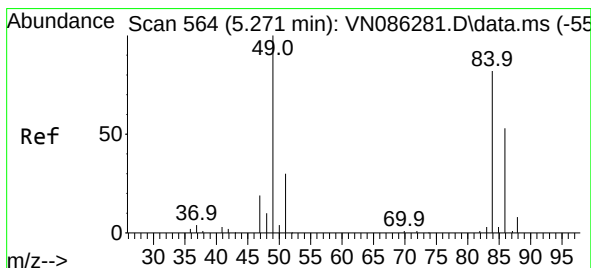
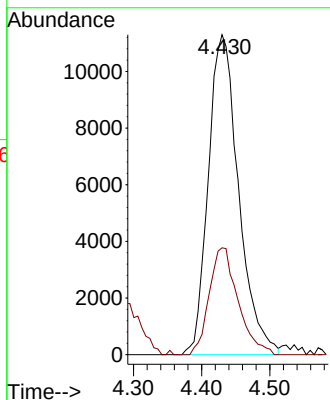
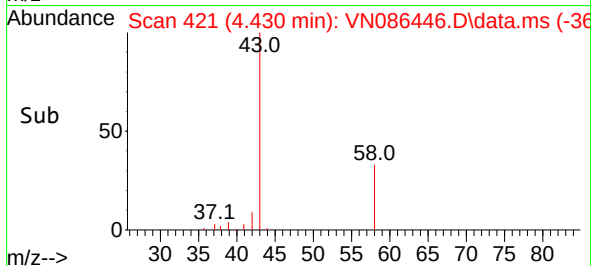
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167775ZHE#16



Tgt Ion: 43 Resp: 3496  
Ion Ratio Lower Upper  
43 100  
58 33.4 25.3 37.9

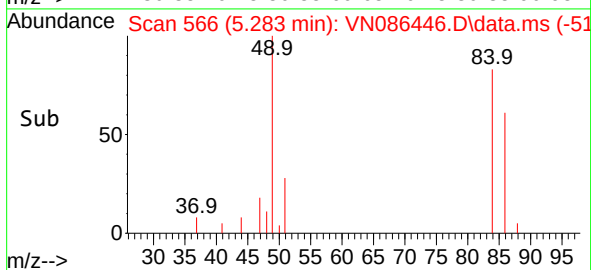
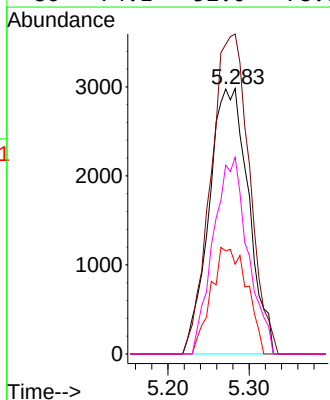
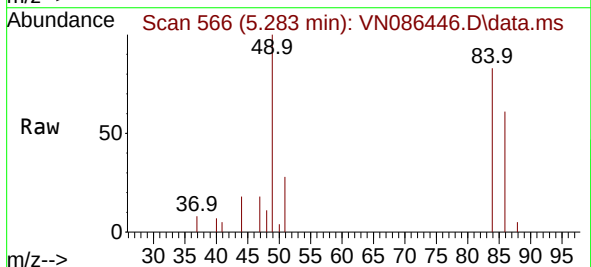
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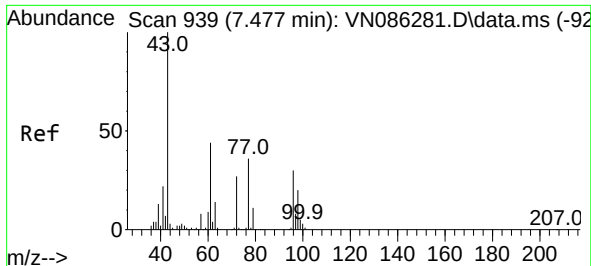
Reviewed By :John Carlone 05/02/2025  
Supervised By :Semsettin Yesilyurt 05/05/2025



#20  
Methylene Chloride  
Concen: 4.694 ug/l  
RT: 5.283 min Scan# 566  
Delta R.T. 0.012 min  
Lab File: VN086446.D  
Acq: 30 Apr 2025 19:06

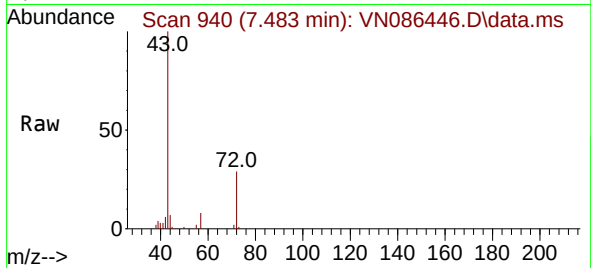
Tgt Ion: 84 Resp: 10062  
Ion Ratio Lower Upper  
84 100  
49 120.5 98.2 147.2  
51 33.8 29.8 44.6  
86 74.1 52.0 78.0





#25  
2-Butanone  
Concen: 23.957 ug/l  
RT: 7.483 min Scan# 940  
Delta R.T. 0.006 min  
Lab File: VN086446.D  
Acq: 30 Apr 2025 19:06

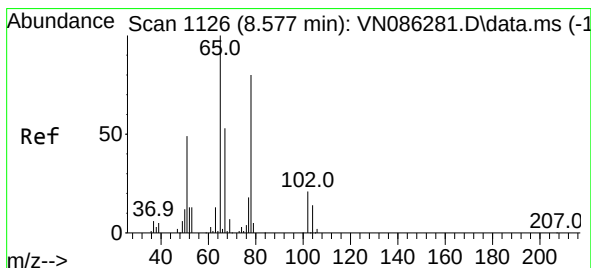
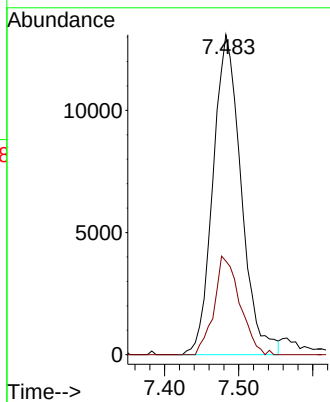
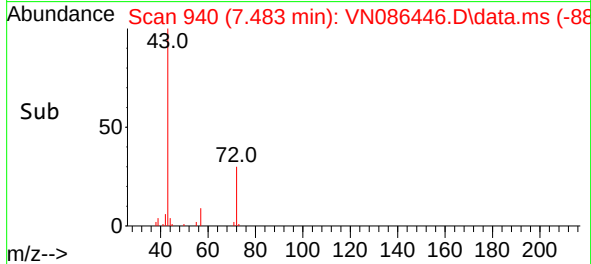
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167775ZHE#16



Tgt Ion: 43 Resp: 34578  
Ion Ratio Lower Upper  
43 100  
72 29.3 21.7 32.5

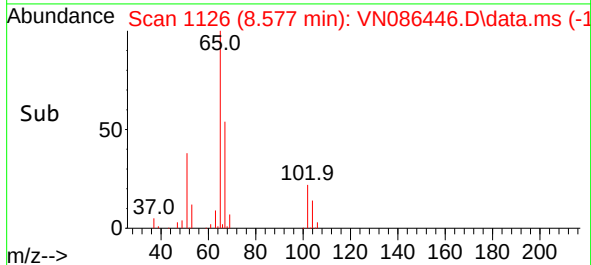
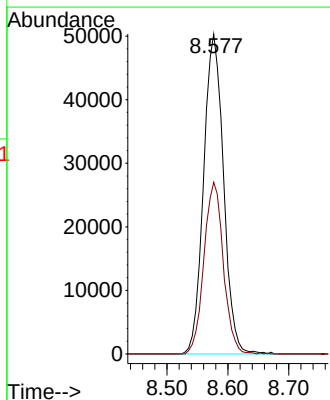
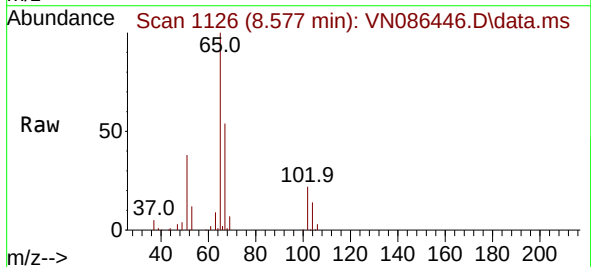
Manual Integrations  
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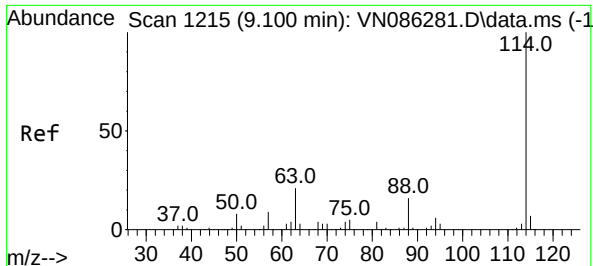
Reviewed By :John Carlone 05/02/2025  
Supervised By :Semsettin Yesilyurt 05/05/2025



#33  
1,2-Dichloroethane-d4  
Concen: 49.296 ug/l  
RT: 8.577 min Scan# 1126  
Delta R.T. 0.000 min  
Lab File: VN086446.D  
Acq: 30 Apr 2025 19:06

Tgt Ion: 65 Resp: 114309  
Ion Ratio Lower Upper  
65 100  
67 52.2 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086446.D

Acq: 30 Apr 2025 19:06

Instrument :

MSVOA\_N

ClientSampleId :

PB167775ZHE#16

Tgt Ion:114 Resp: 30590

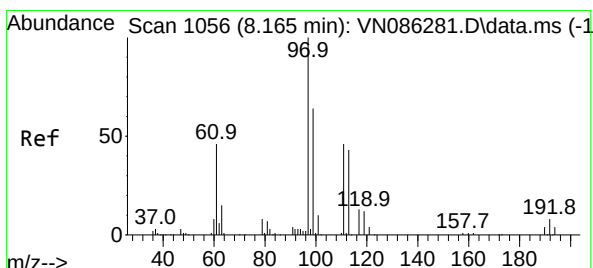
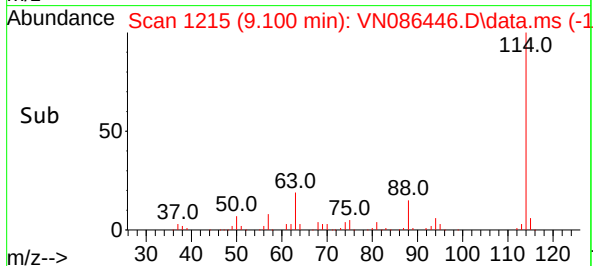
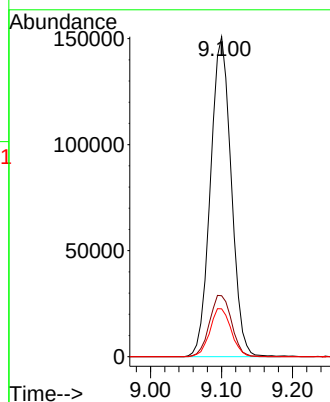
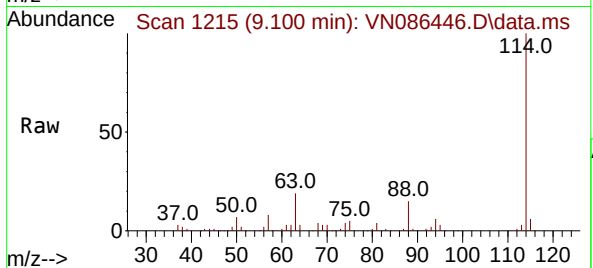
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 19.1  | 0.0   | 42.6  |
| 88  | 15.0  | 0.0   | 31.8  |

Manual Integrations

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Supervised By :Semsettin Yesilyurt 05/05/2025



#35

Dibromofluoromethane

Concen: 51.512 ug/l

RT: 8.165 min Scan# 1056

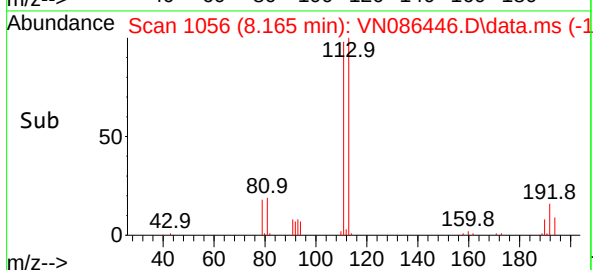
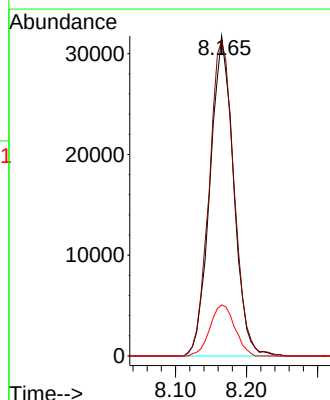
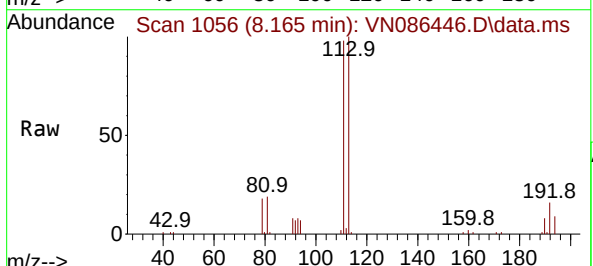
Delta R.T. 0.000 min

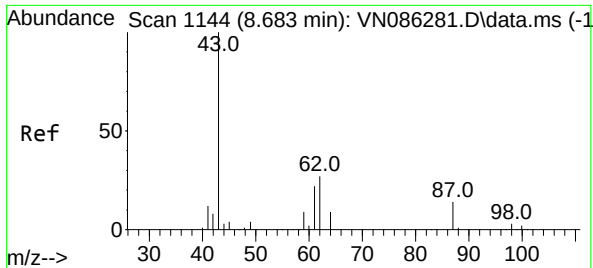
Lab File: VN086446.D

Acq: 30 Apr 2025 19:06

Tgt Ion:113 Resp: 73133

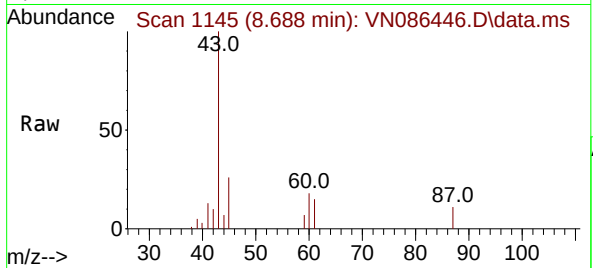
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 103.9 | 83.4  | 125.0 |
| 192 | 16.8  | 13.7  | 20.5  |





#43  
Isopropyl Acetate  
Concen: 6.087 ug/l m  
RT: 8.688 min Scan# 1145  
Delta R.T. 0.005 min  
Lab File: VN086446.D  
Acq: 30 Apr 2025 19:06

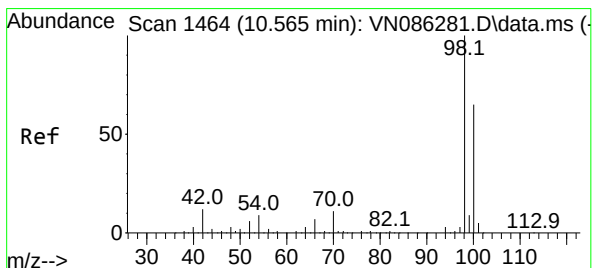
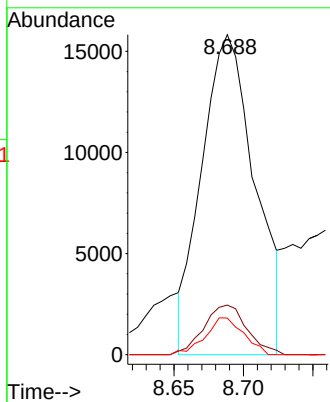
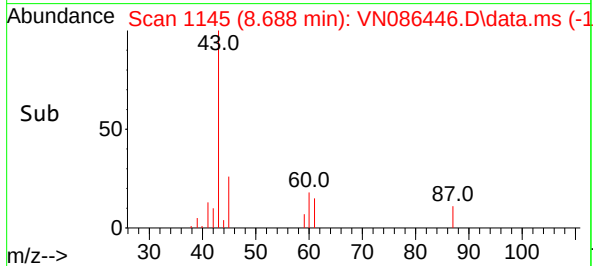
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167775ZHE#16



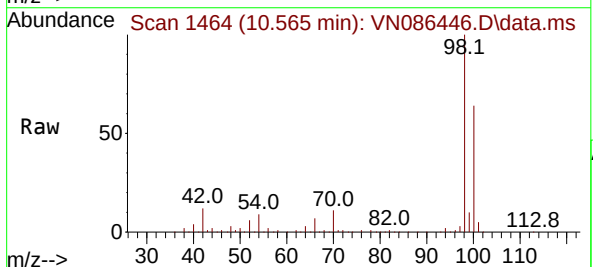
Tgt Ion: 43 Resp: 4202  
Ion Ratio Lower Upper  
43 100  
61 12.6 20.5 30.7  
87 8.3 10.5 15.7

Manual Integrations  
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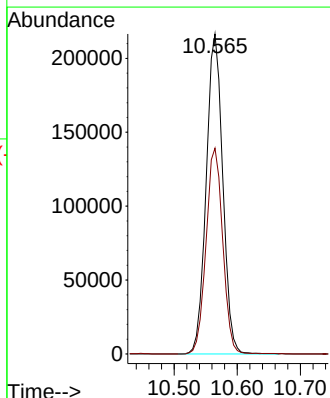
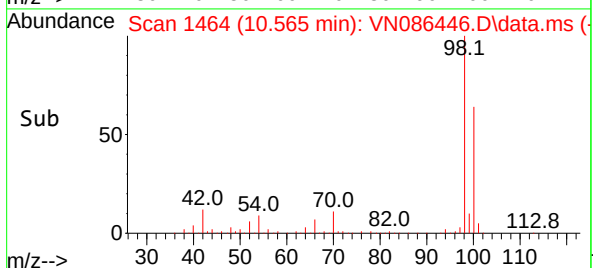
Reviewed By :John Carlone 05/02/2025  
Supervised By :Semsettin Yesilyurt 05/05/2025

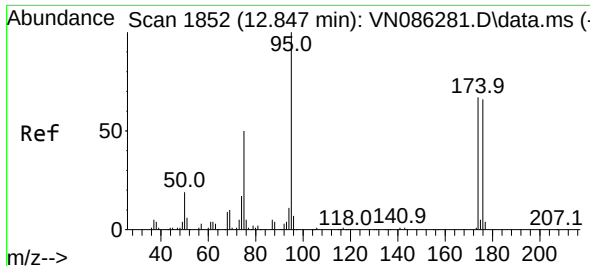


#50  
Toluene-d8  
Concen: 51.749 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VN086446.D  
Acq: 30 Apr 2025 19:06



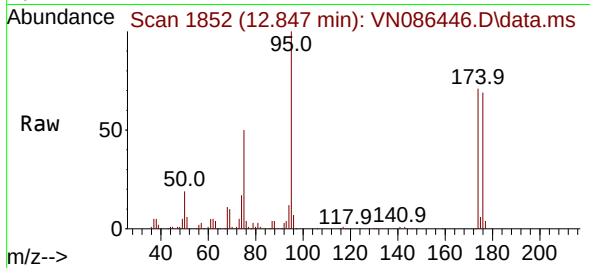
Tgt Ion: 98 Resp: 392662  
Ion Ratio Lower Upper  
98 100  
100 64.9 52.5 78.7





#62  
4-Bromofluorobenzene  
Concen: 50.821 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN086446.D  
Acq: 30 Apr 2025 19:06

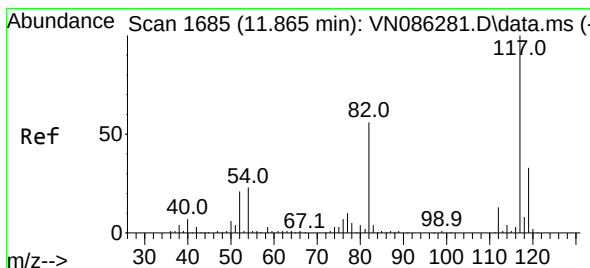
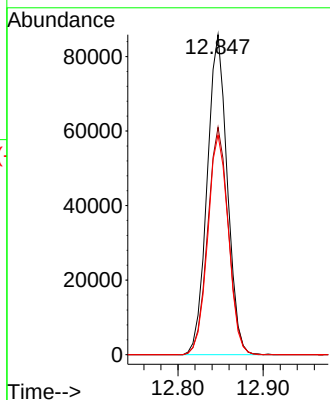
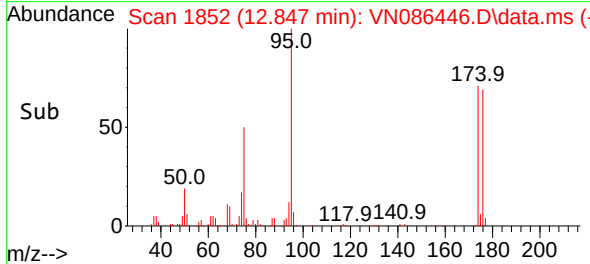
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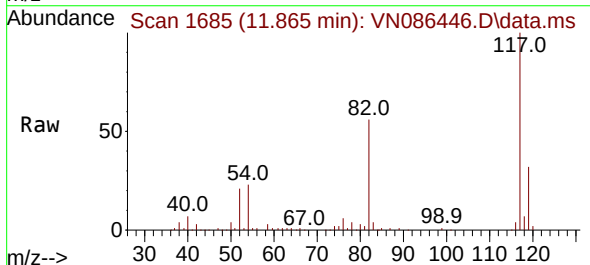
Tgt Ion: 95 Resp: 14065  
Ion Ratio Lower Upper  
95 100  
174 73.1 0.0 133.4  
176 70.2 0.0 129.2

Manual Integrations  
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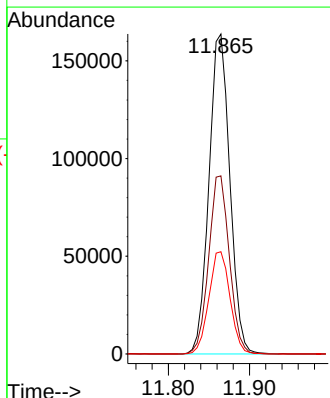
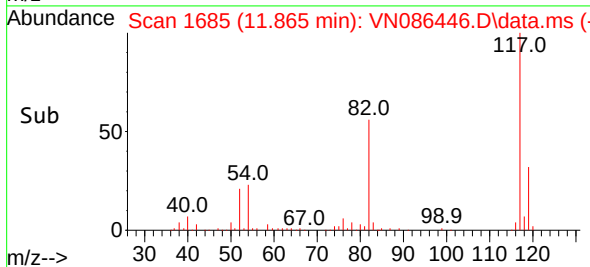
Reviewed By :John Carlone 05/02/2025  
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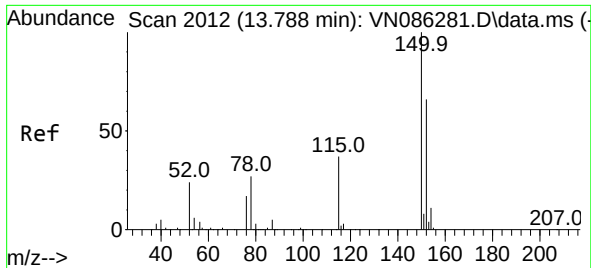
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. 0.000 min  
Lab File: VN086446.D  
Acq: 30 Apr 2025 19:06



Tgt Ion:117 Resp: 292538  
Ion Ratio Lower Upper  
117 100  
82 55.6 44.7 67.1  
119 32.0 26.4 39.6

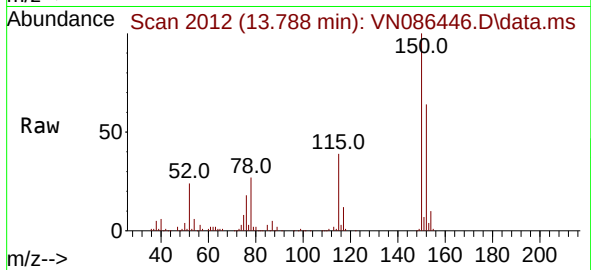






#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.788 min Scan# 20  
 Delta R.T. 0.000 min  
 Lab File: VN086446.D  
 Acq: 30 Apr 2025 19:06

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB167775ZHE#16



Tgt Ion:152 Resp: 12859  
 Ion Ratio Lower Upper  
 152 100  
 115 61.2 31.9 95.9  
 150 157.7 0.0 352.0

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