

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022425\  
 Data File : VN085839.D  
 Acq On : 24 Feb 2025 16:01  
 Operator : JC\MD  
 Sample : Q1415-05  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Feb 24 16:17:23 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021825W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 19 03:43:32 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| -----                      |        |      |          |       |       |          |
| Internal Standards         |        |      |          |       |       |          |
| 1) Pentafluorobenzene      | 8.224  | 168  | 226425   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.100  | 114  | 437095   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.865 | 117  | 388209   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152  | 145806   | 50.00 | ug/l  | 0.00     |

|                             |        |       |          |          |           |      |
|-----------------------------|--------|-------|----------|----------|-----------|------|
| System Monitoring Compounds |        |       |          |          |           |      |
| 33) 1,2-Dichloroethane-d4   | 8.577  | 65    | 179257   | 61.06    | ug/l      | 0.00 |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | = 122.12% |      |
| 35) Dibromofluoromethane    | 8.165  | 113   | 152243   | 53.23    | ug/l      | 0.00 |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | = 106.46% |      |
| 50) Toluene-d8              | 10.565 | 98    | 512051   | 49.21    | ug/l      | 0.00 |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | = 98.42%  |      |
| 62) 4-Bromofluorobenzene    | 12.847 | 95    | 147244   | 42.95    | ug/l      | 0.00 |
| Spiked Amount               | 50.000 | Range | 77 - 121 | Recovery | = 85.90%  |      |

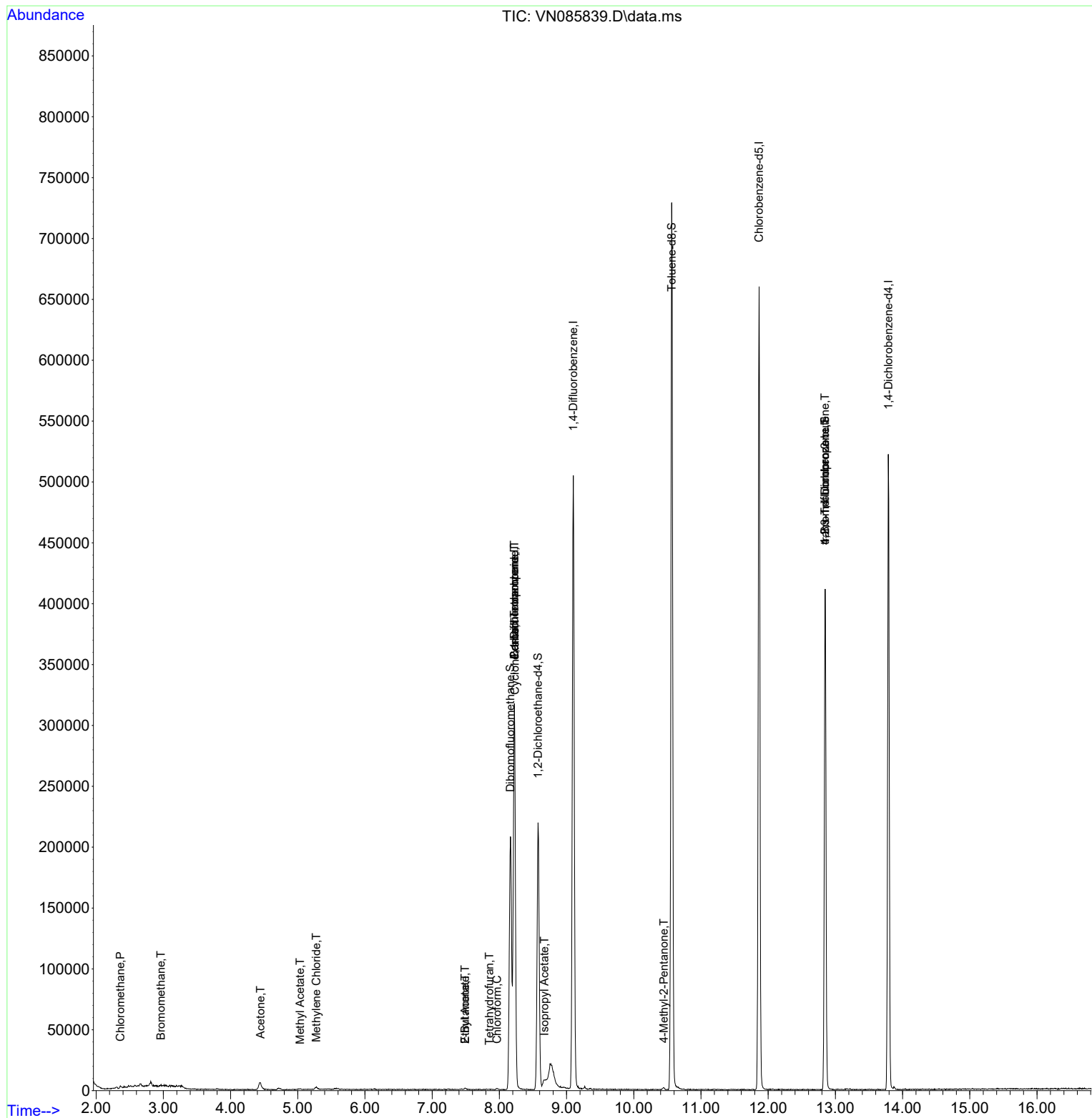
|                               |        |     |       |       |           |
|-------------------------------|--------|-----|-------|-------|-----------|
| Target Compounds              |        |     |       |       | Qvalue    |
| 3) Chloromethane              | 2.359  | 50  | 1035  | 0.33  | ug/l 91   |
| 5) Bromomethane               | 2.965  | 94  | 498   | 0.24  | ug/l # 43 |
| 16) Acetone                   | 4.448  | 43  | 11136 | 11.99 | ug/l 88   |
| 18) Methyl Acetate            | 5.036  | 43  | 806   | 0.25  | ug/l # 47 |
| 20) Methylene Chloride        | 5.277  | 84  | 1632  | 0.55  | ug/l # 71 |
| 25) 2-Butanone                | 7.489  | 43  | 2220  | 1.62  | ug/l 95   |
| 29) Tetrahydrofuran           | 7.853  | 42  | 294   | 0.33  | ug/l # 45 |
| 30) Chloroform                | 7.965  | 83  | 1088  | 0.21  | ug/l 99   |
| 31) Cyclohexane               | 8.230  | 56  | 5032  | 1.20  | ug/l # 11 |
| 36) 1,1-Dichloropropene       | 8.224  | 75  | 18094 | 4.47  | ug/l # 49 |
| 37) Ethyl Acetate             | 7.489  | 43  | 2220  | 0.67  | ug/l # 66 |
| 38) Carbon Tetrachloride      | 8.224  | 117 | 23281 | 4.84  | ug/l # 19 |
| 43) Isopropyl Acetate         | 8.671  | 43  | 5415  | 0.38  | ug/l # 53 |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43  | 1774  | 0.55  | ug/l 92   |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75  | 73234 | 22.61 | ug/l # 1  |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75  | 73234 | 65.97 | ug/l # 12 |

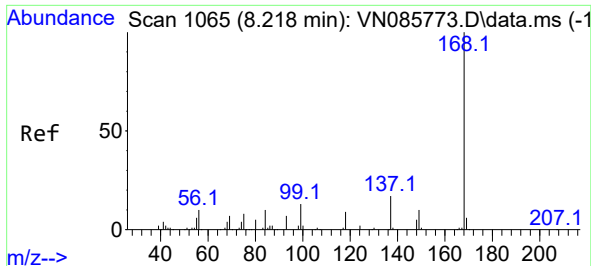
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022425\  
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Sample : Q1415-05  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

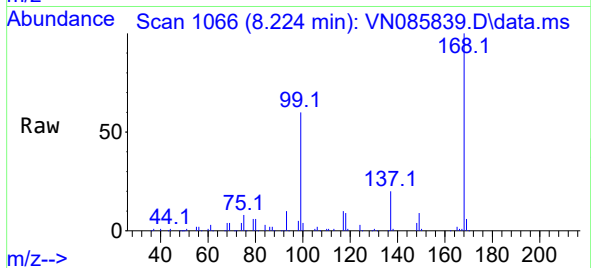
Quant Time: Feb 24 16:17:23 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021825W.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 19 03:43:32 2025  
Response via : Initial Calibration



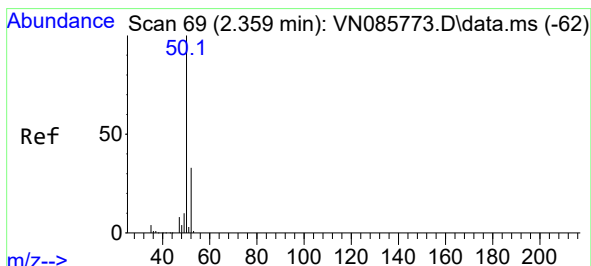
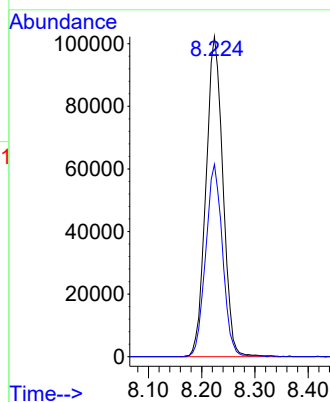
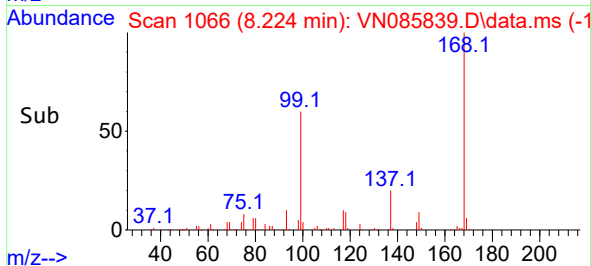


#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. 0.006 min  
Lab File: VN085839.D  
Acq: 24 Feb 2025 16:01

Instrument :  
MSVOA\_X  
ClientSampleId :

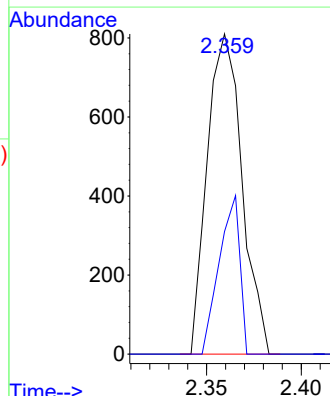
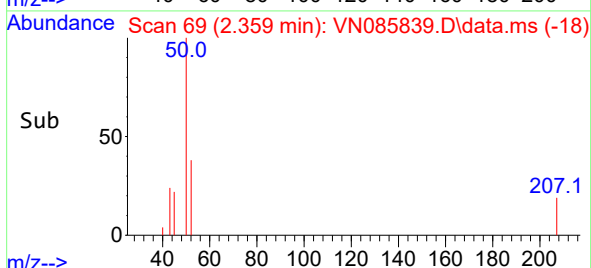
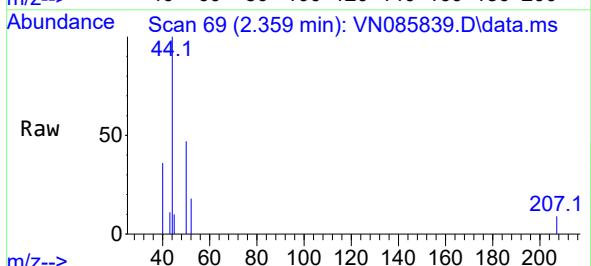


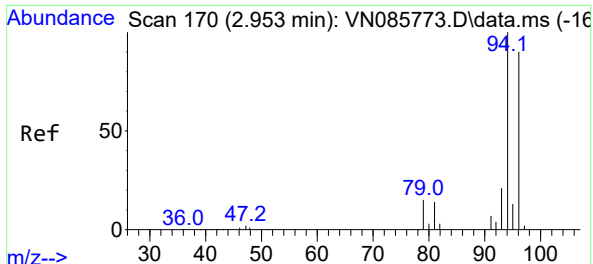
Tgt Ion:168 Resp: 226425  
Ion Ratio Lower Upper  
168 100  
99 60.1 47.9 71.9



#3  
Chloromethane  
Concen: 0.33 ug/l  
RT: 2.359 min Scan# 69  
Delta R.T. 0.000 min  
Lab File: VN085839.D  
Acq: 24 Feb 2025 16:01

Tgt Ion: 50 Resp: 1035  
Ion Ratio Lower Upper  
50 100  
52 38.3 26.7 40.1

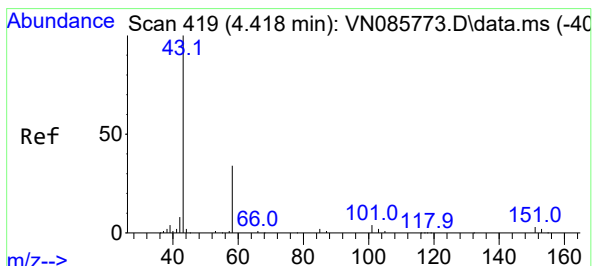
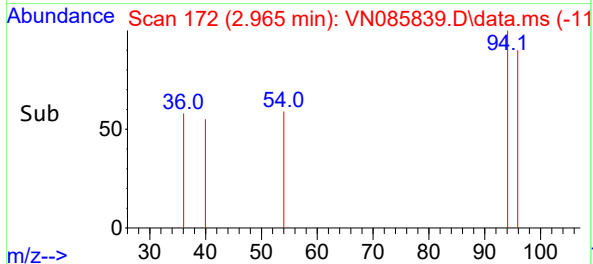
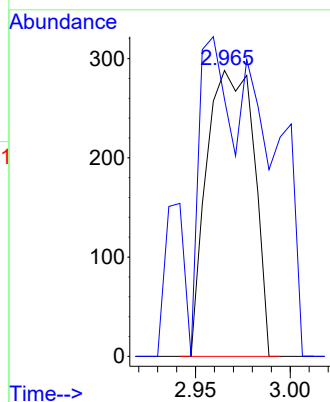
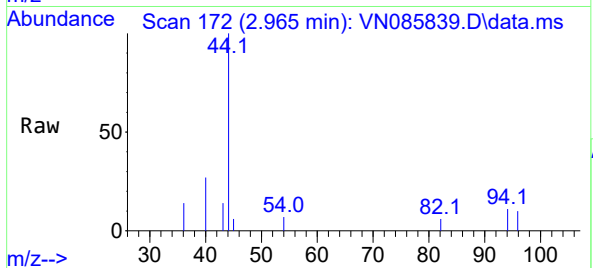




#5  
Bromomethane  
Concen: 0.24 ug/l  
RT: 2.965 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VN085839.D  
Acq: 24 Feb 2025 16:01

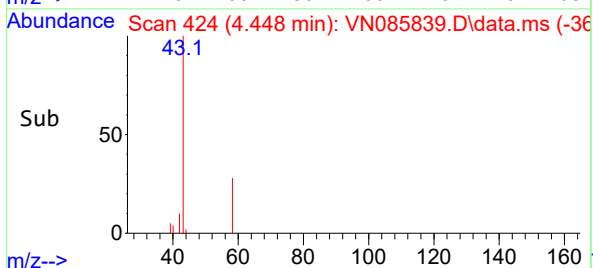
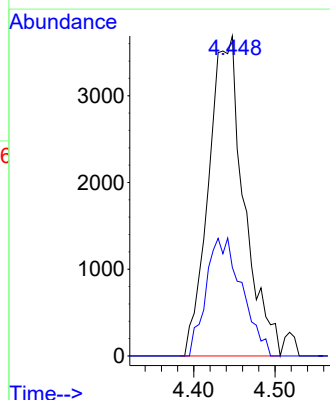
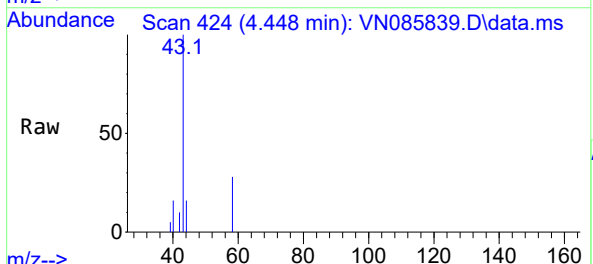
Instrument :  
MSVOA\_X  
ClientSampleId :

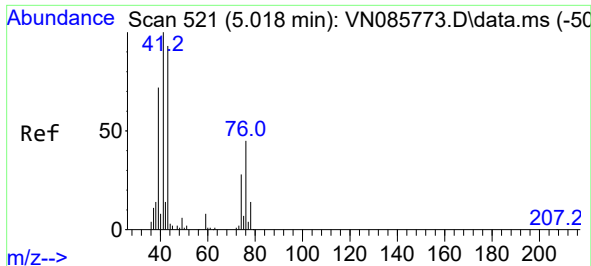
Tgt Ion: 94 Resp: 498  
Ion Ratio Lower Upper  
94 100  
96 36.5 71.7 107.5#



#16  
Acetone  
Concen: 11.99 ug/l  
RT: 4.448 min Scan# 424  
Delta R.T. 0.029 min  
Lab File: VN085839.D  
Acq: 24 Feb 2025 16:01

Tgt Ion: 43 Resp: 11136  
Ion Ratio Lower Upper  
43 100  
58 27.6 27.5 41.3





#18

Methyl Acetate

Concen: 0.25 ug/l

RT: 5.036 min Scan# 51

Delta R.T. 0.018 min

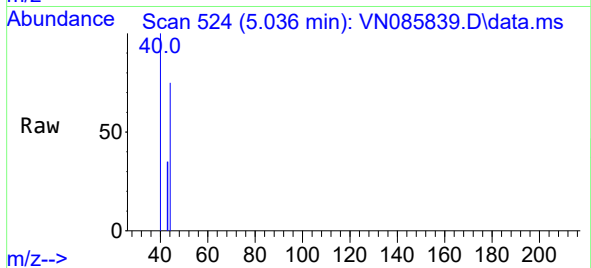
Lab File: VN085839.D

Acq: 24 Feb 2025 16:01

Instrument :

MSVOA\_X

ClientSampleId :

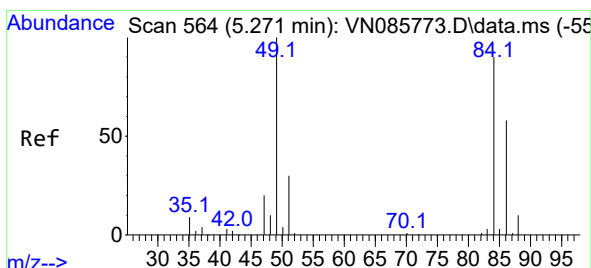
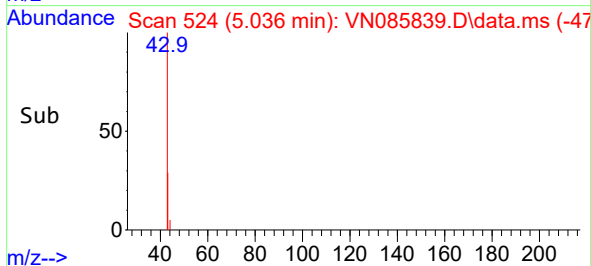
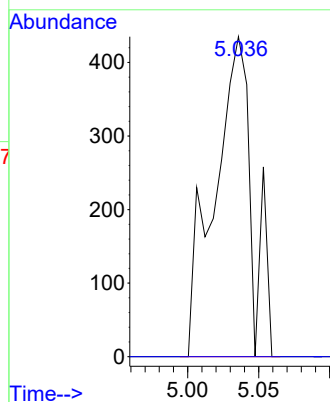


Tgt Ion: 43 Resp: 806

Ion Ratio Lower Upper

43 100

74 0.0 22.2 33.4#



#20

Methylene Chloride

Concen: 0.55 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN085839.D

Acq: 24 Feb 2025 16:01

Tgt Ion: 84 Resp: 1632

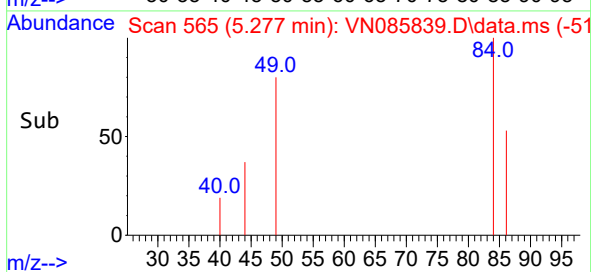
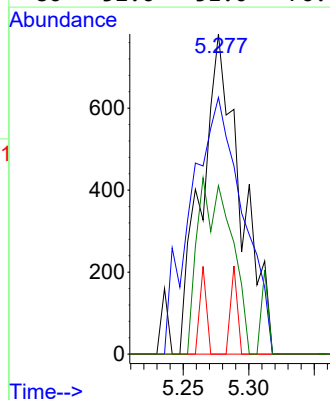
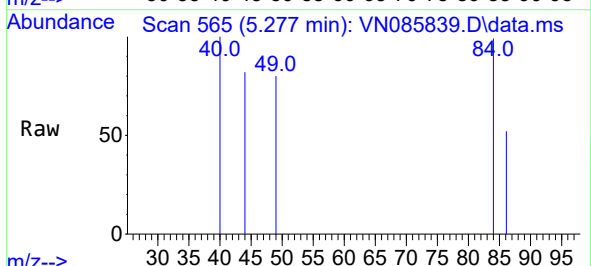
Ion Ratio Lower Upper

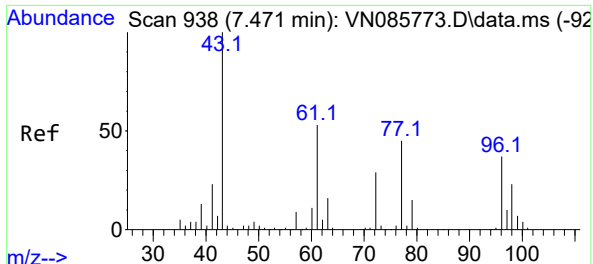
84 100

49 80.2 88.4 132.6#

51 0.0 26.6 40.0#

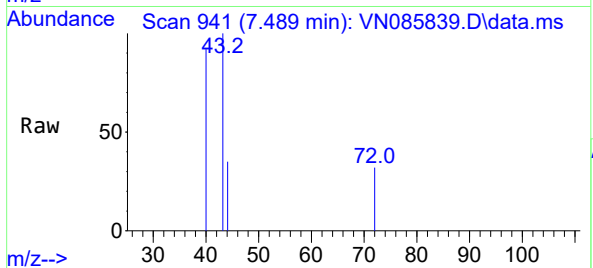
86 52.6 51.0 76.6



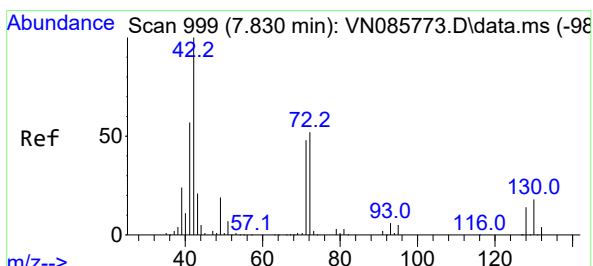
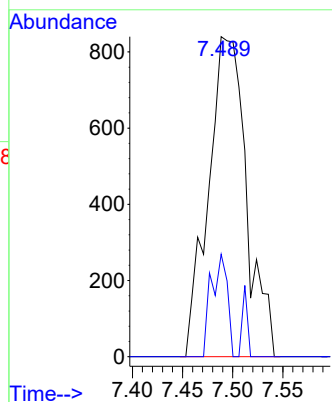
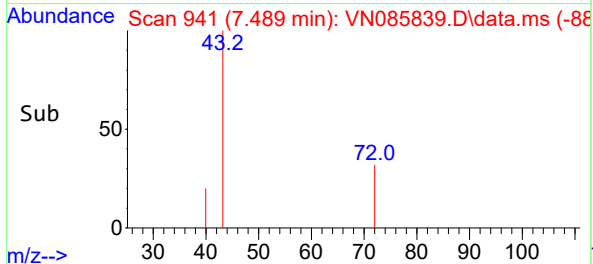


#25  
2-Butanone  
Concen: 1.62 ug/l  
RT: 7.489 min Scan# 941  
Delta R.T. 0.018 min  
Lab File: VN085839.D  
Acq: 24 Feb 2025 16:01

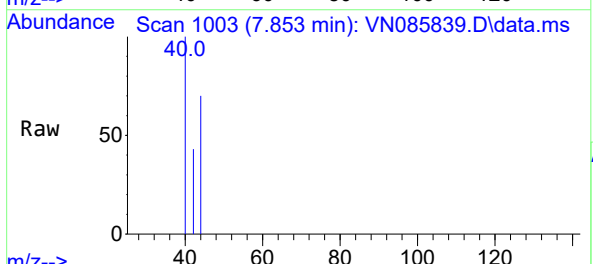
Instrument :  
MSVOA\_X  
ClientSampleId :



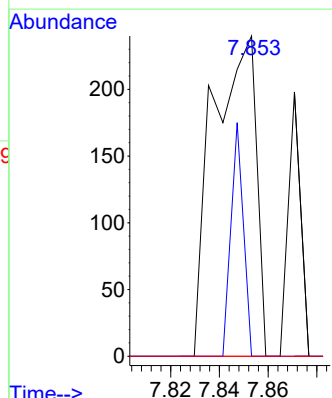
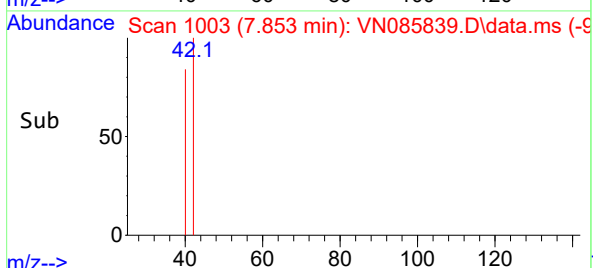
Tgt Ion: 43 Resp: 2220  
Ion Ratio Lower Upper  
43 100  
72 32.0 23.6 35.4

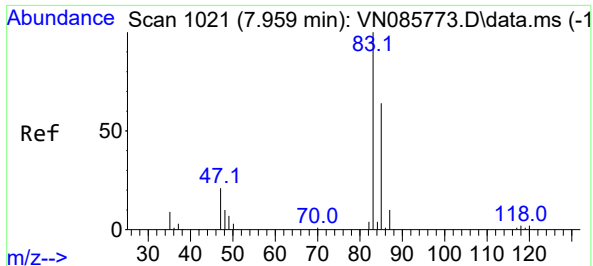


#29  
Tetrahydrofuran  
Concen: 0.33 ug/l  
RT: 7.853 min Scan# 1003  
Delta R.T. 0.024 min  
Lab File: VN085839.D  
Acq: 24 Feb 2025 16:01



Tgt Ion: 42 Resp: 294  
Ion Ratio Lower Upper  
42 100  
72 21.1 40.0 60.0#  
71 0.0 37.0 55.4#





#30

Chloroform

Concen: 0.21 ug/l

RT: 7.965 min Scan# 1088

Delta R.T. 0.006 min

Lab File: VN085839.D

Acq: 24 Feb 2025 16:01

Instrument :

MSVOA\_X

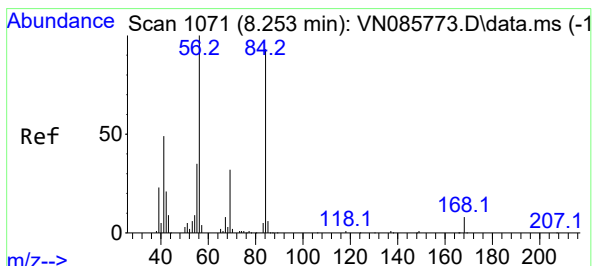
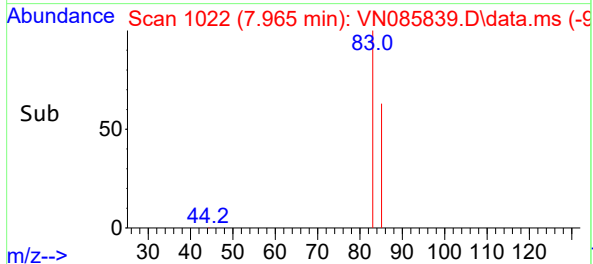
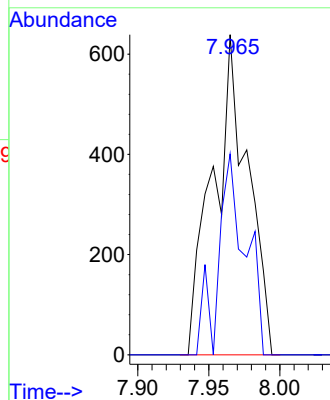
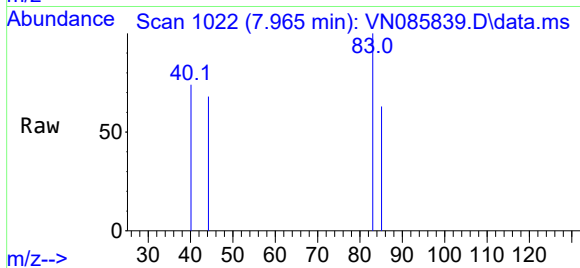
ClientSampleId :

Tgt Ion: 83 Resp: 1088

Ion Ratio Lower Upper

83 100

85 62.8 50.9 76.3



#31

Cyclohexane

Concen: 1.20 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.024 min

Lab File: VN085839.D

Acq: 24 Feb 2025 16:01

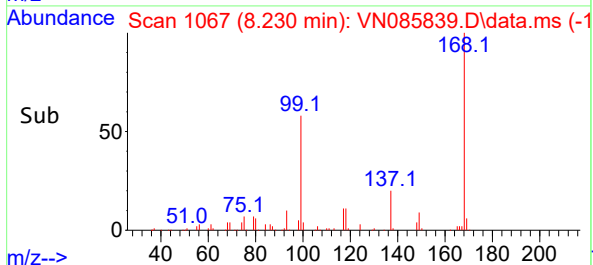
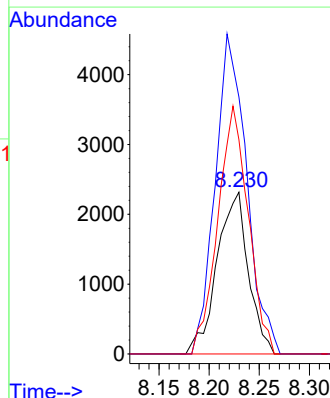
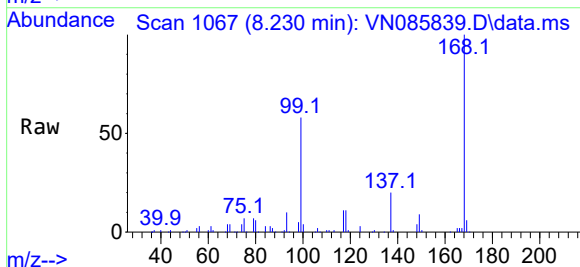
Tgt Ion: 56 Resp: 5032

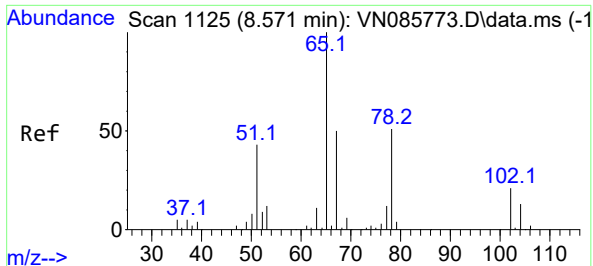
Ion Ratio Lower Upper

56 100

69 158.8 25.8 38.6#

84 132.4 74.5 111.7#





#33

1,2-Dichloroethane-d4

Concen: 61.06 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN085839.D

Acq: 24 Feb 2025 16:01

Instrument :

MSVOA\_X

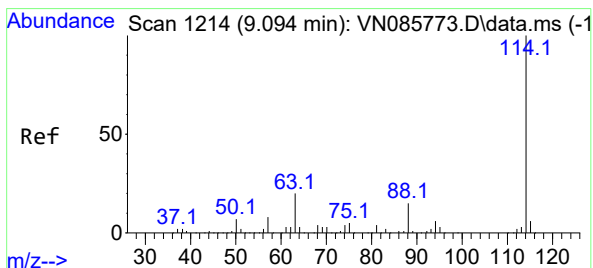
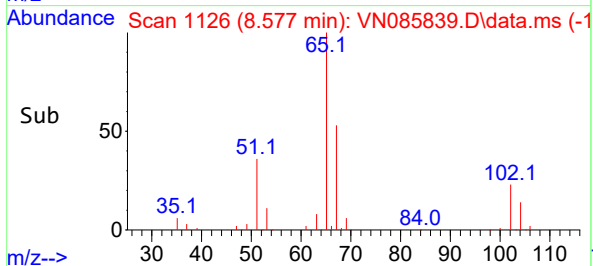
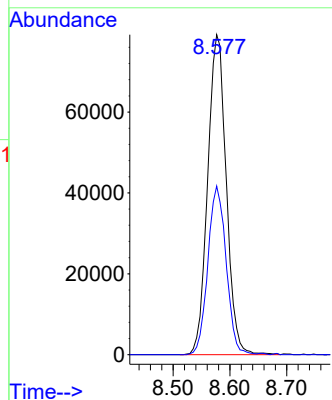
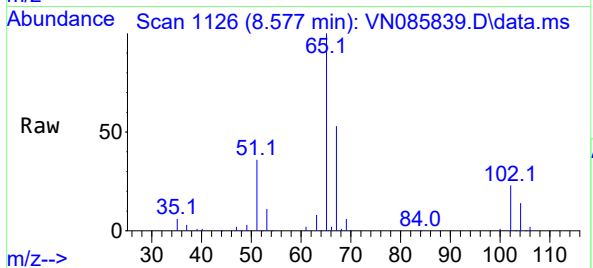
ClientSampleId :

Tgt Ion: 65 Resp: 179257

Ion Ratio Lower Upper

65 100

67 51.8 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085839.D

Acq: 24 Feb 2025 16:01

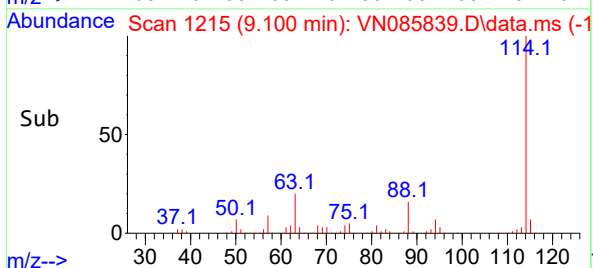
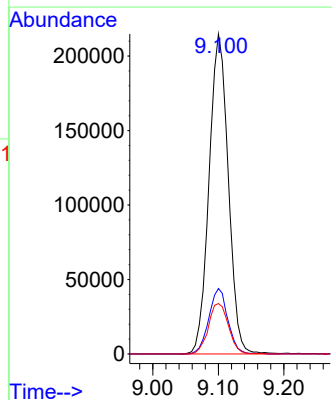
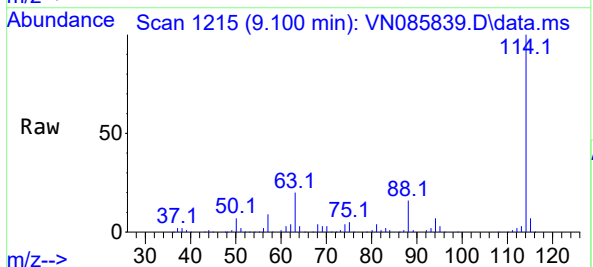
Tgt Ion:114 Resp: 437095

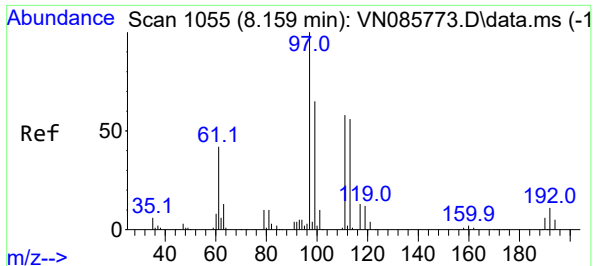
Ion Ratio Lower Upper

114 100

63 20.5 0.0 39.2

88 15.8 0.0 30.0





#35

Dibromofluoromethane

Concen: 53.23 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085839.D

Acq: 24 Feb 2025 16:01

Instrument :

MSVOA\_X

ClientSampleId :

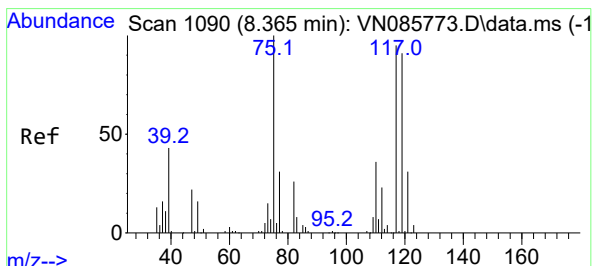
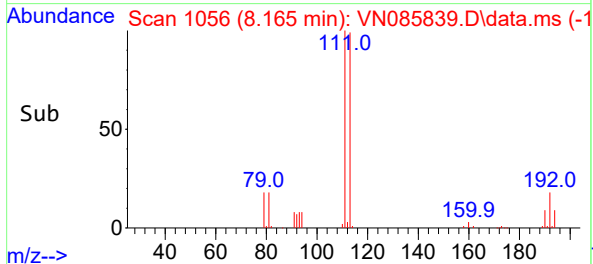
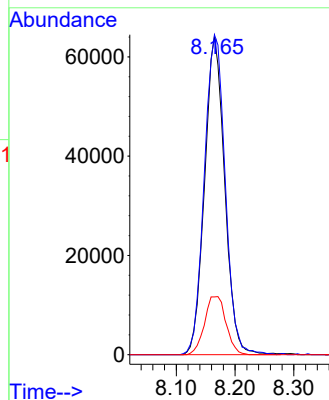
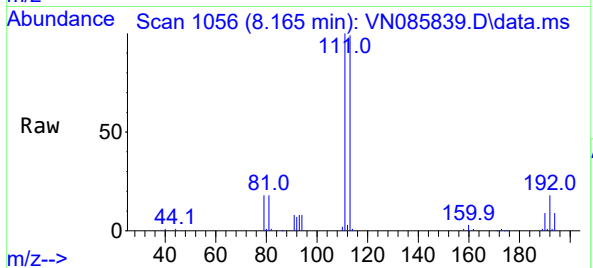
Tgt Ion:113 Resp: 152243

Ion Ratio Lower Upper

113 100

111 104.6 82.2 123.4

192 19.5 14.7 22.1



#36

1,1-Dichloropropene

Concen: 4.47 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN085839.D

Acq: 24 Feb 2025 16:01

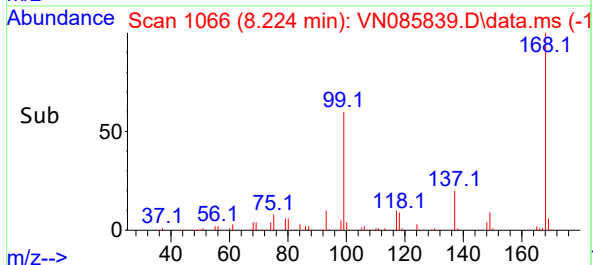
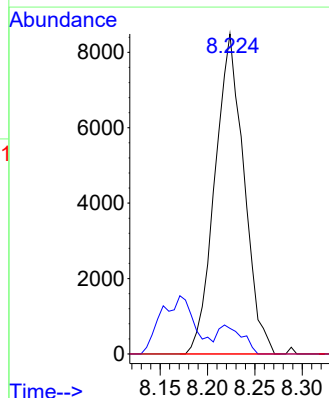
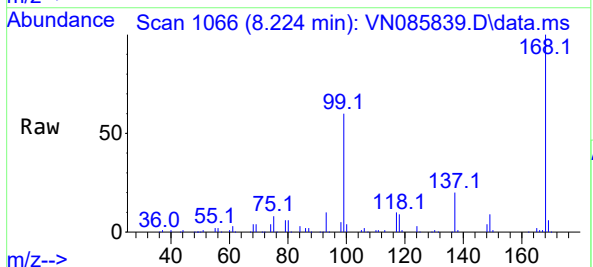
Tgt Ion: 75 Resp: 18094

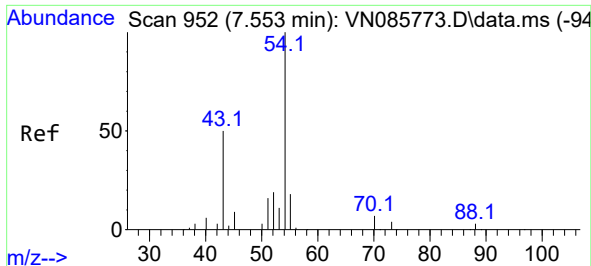
Ion Ratio Lower Upper

75 100

110 7.4 17.3 52.0#

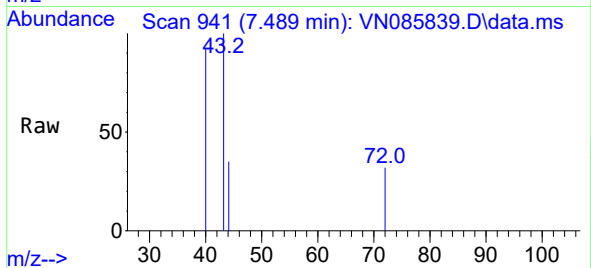
77 0.0 24.6 37.0#



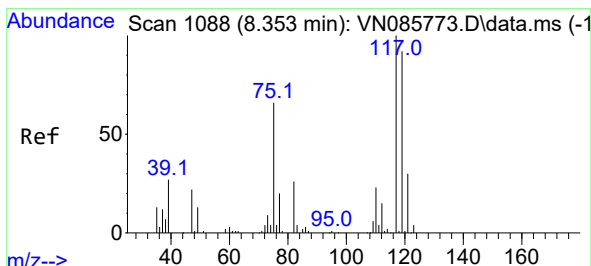
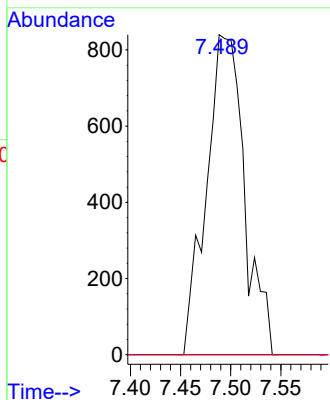
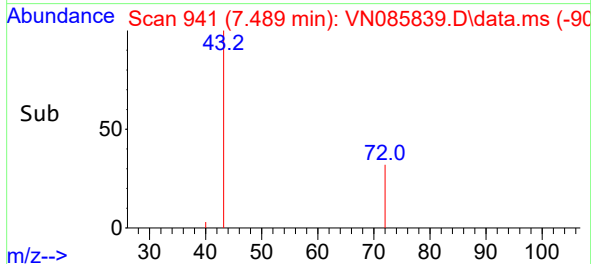


#37  
Ethyl Acetate  
Concen: 0.67 ug/l  
RT: 7.489 min Scan# 941  
Delta R.T. -0.065 min  
Lab File: VN085839.D  
Acq: 24 Feb 2025 16:01

Instrument :  
MSVOA\_X  
ClientSampleId :

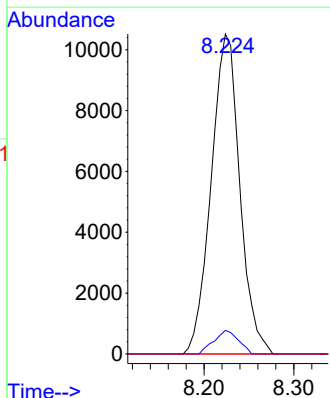
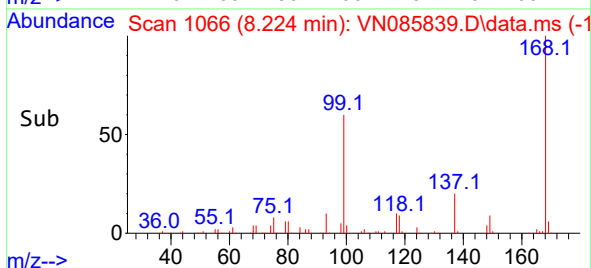
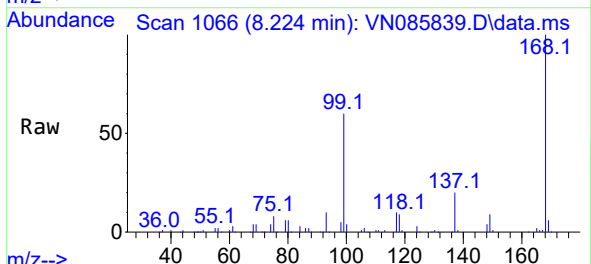


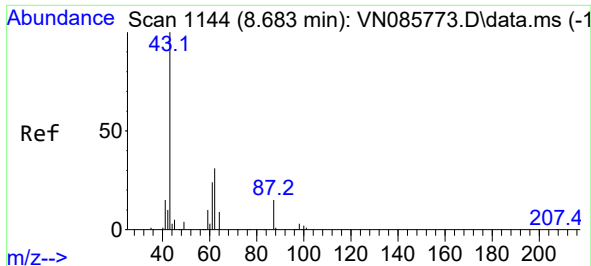
Tgt Ion: 43 Resp: 2220  
Ion Ratio Lower Upper  
43 100  
61 0.0 12.2 18.2#  
70 0.0 9.5 14.3#



#38  
Carbon Tetrachloride  
Concen: 4.84 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.129 min  
Lab File: VN085839.D  
Acq: 24 Feb 2025 16:01

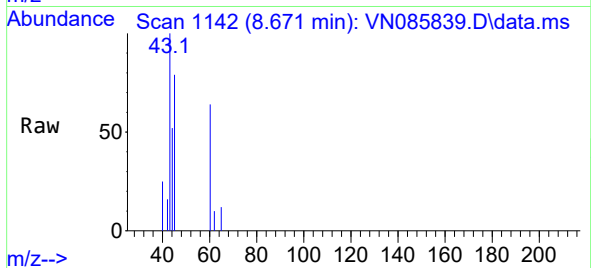
Tgt Ion: 117 Resp: 23281  
Ion Ratio Lower Upper  
117 100  
119 7.3 73.8 110.6#  
121 0.0 24.3 36.5#



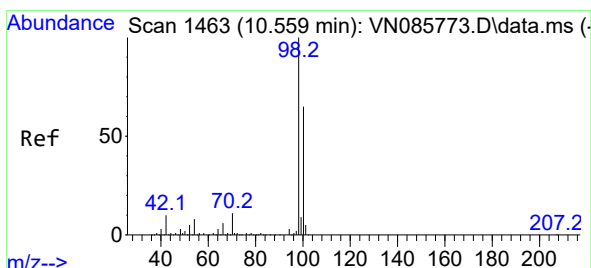
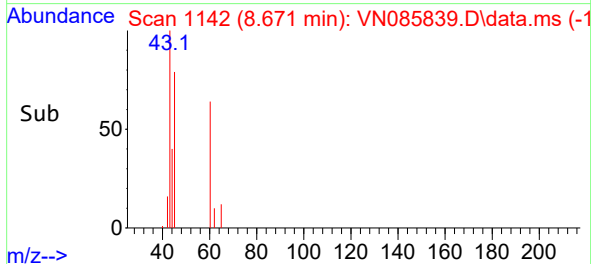
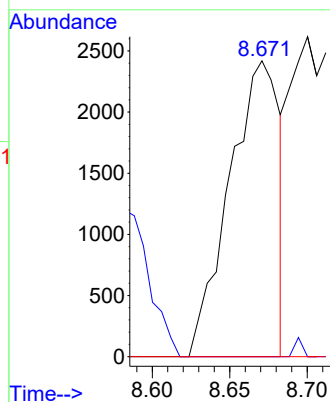


#43  
Isopropyl Acetate  
Concen: 0.38 ug/l  
RT: 8.671 min Scan# 1142  
Delta R.T. -0.012 min  
Lab File: VN085839.D  
Acq: 24 Feb 2025 16:01

Instrument :  
MSVOA\_X  
ClientSampleId :

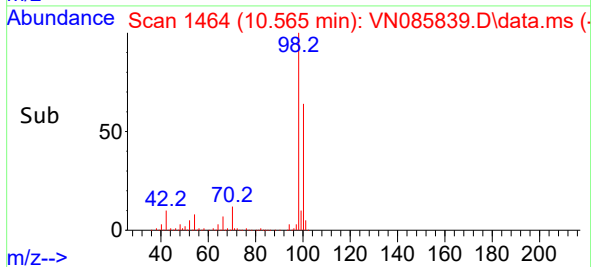
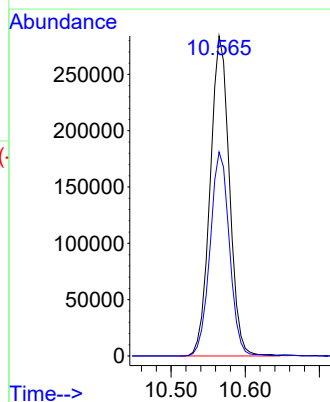
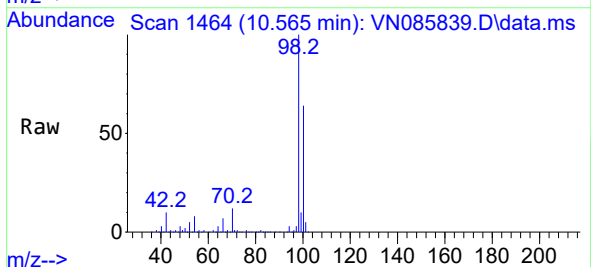


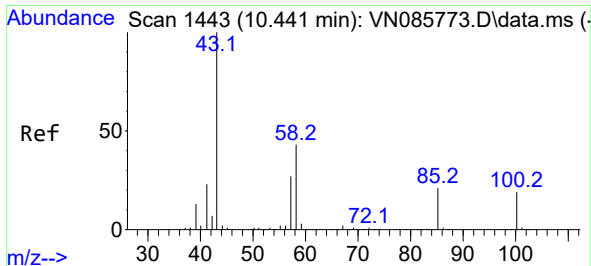
Tgt Ion: 43 Resp: 5415  
Ion Ratio Lower Upper  
43 100  
61 0.0 22.6 34.0#  
87 0.0 11.8 17.8#



#50  
Toluene-d8  
Concen: 49.21 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.006 min  
Lab File: VN085839.D  
Acq: 24 Feb 2025 16:01

Tgt Ion: 98 Resp: 512051  
Ion Ratio Lower Upper  
98 100  
100 64.2 52.1 78.1

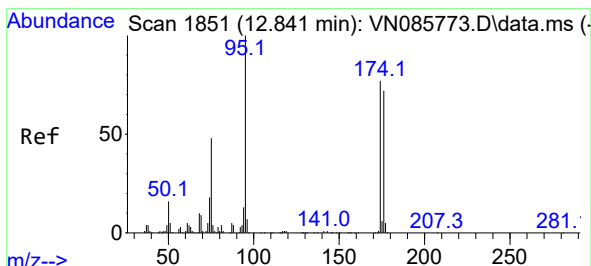
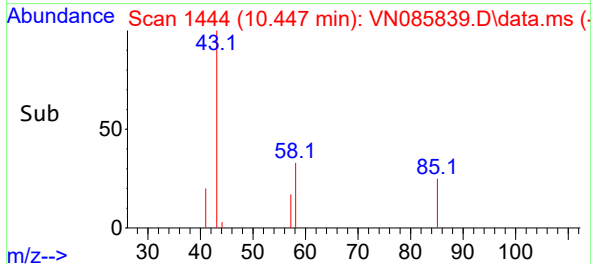
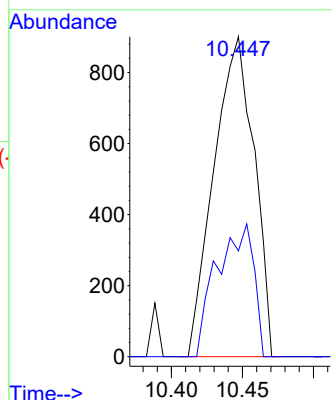
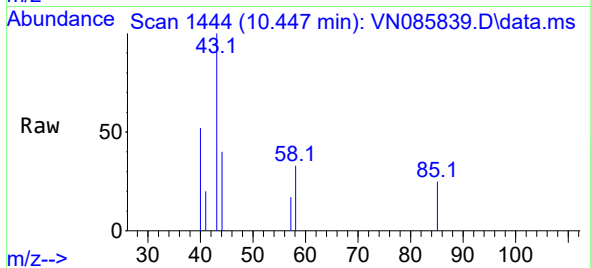




#51  
4-Methyl-2-Pentanone  
Concen: 0.55 ug/l  
RT: 10.447 min Scan# 1443  
Delta R.T. 0.006 min  
Lab File: VN085839.D  
Acq: 24 Feb 2025 16:01

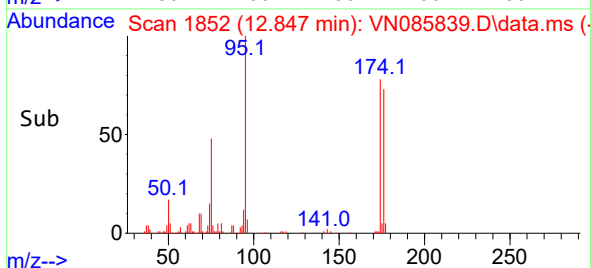
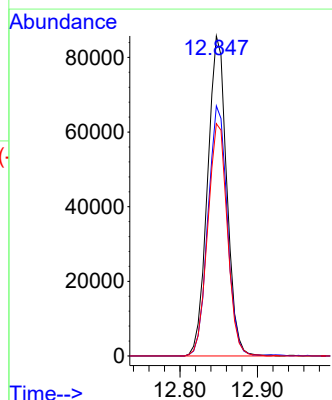
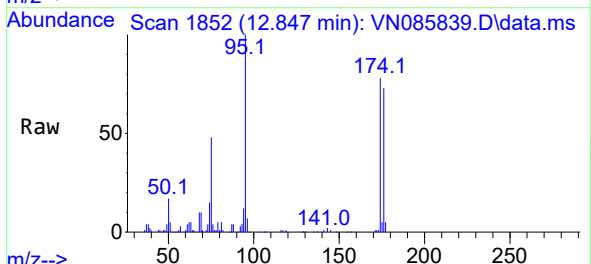
Instrument :  
MSVOA\_X  
ClientSampleId :

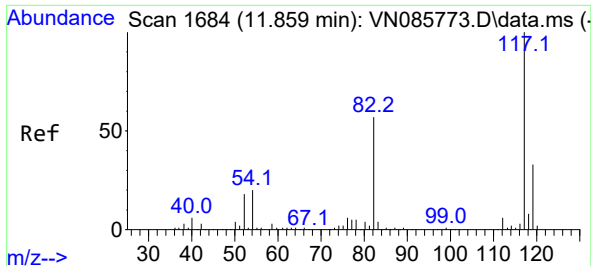
Tgt Ion: 43 Resp: 1774  
Ion Ratio Lower Upper  
43 100  
58 37.9 34.6 52.0



#62  
4-Bromofluorobenzene  
Concen: 42.95 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.006 min  
Lab File: VN085839.D  
Acq: 24 Feb 2025 16:01

Tgt Ion: 95 Resp: 147244  
Ion Ratio Lower Upper  
95 100  
174 78.6 0.0 152.4  
176 74.1 0.0 146.6

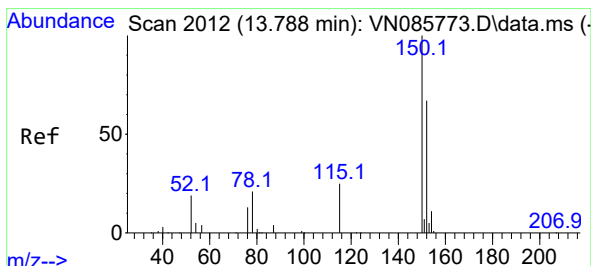
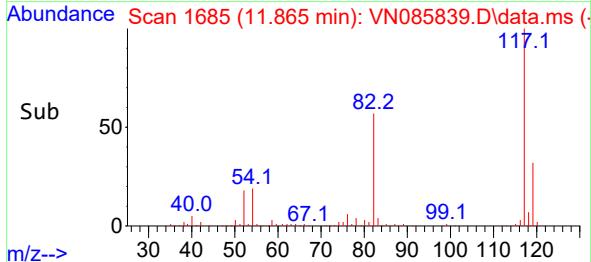
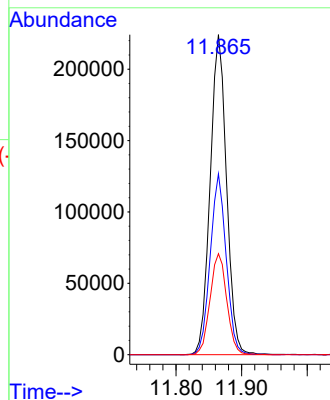
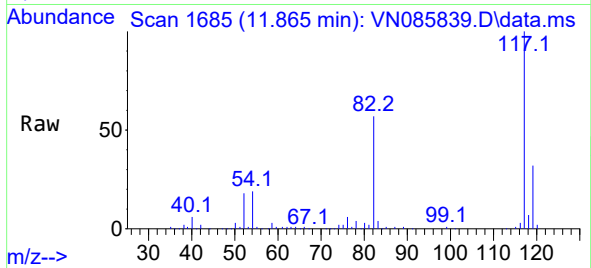




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.865 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN085839.D  
Acq: 24 Feb 2025 16:01

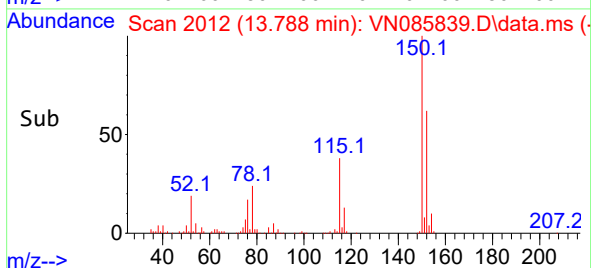
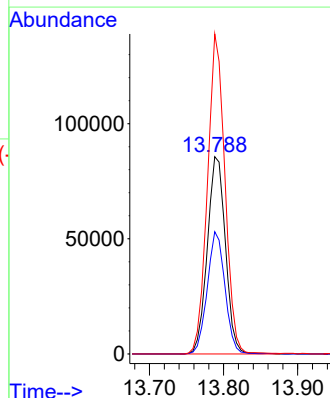
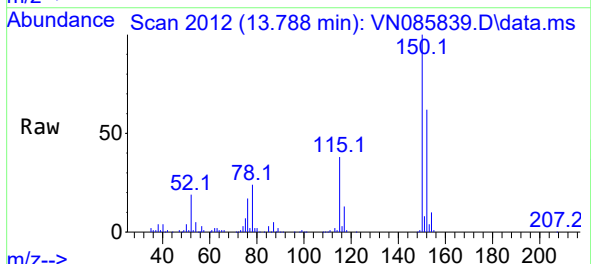
Instrument :  
MSVOA\_X  
ClientSampleId :

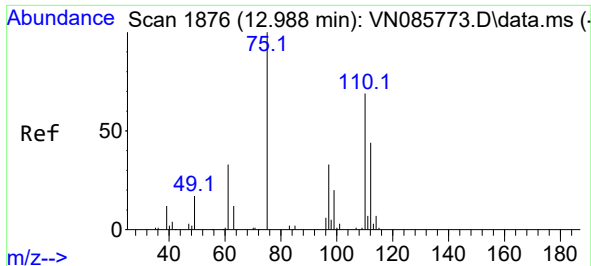
Tgt Ion:117 Resp: 388209  
Ion Ratio Lower Upper  
117 100  
82 56.5 45.7 68.5  
119 31.5 26.2 39.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.788 min Scan# 2012  
Delta R.T. 0.000 min  
Lab File: VN085839.D  
Acq: 24 Feb 2025 16:01

Tgt Ion:152 Resp: 145806  
Ion Ratio Lower Upper  
152 100  
115 60.3 30.4 91.3  
150 156.4 0.0 345.4

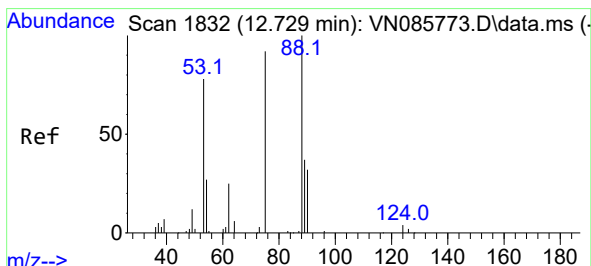
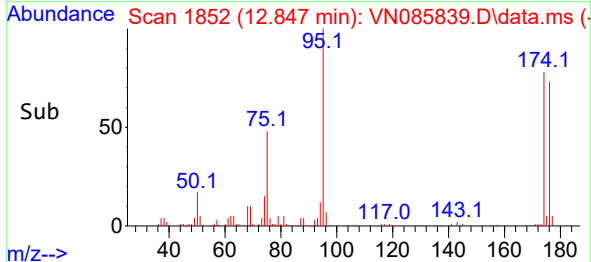
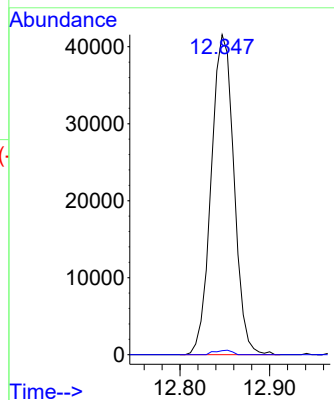
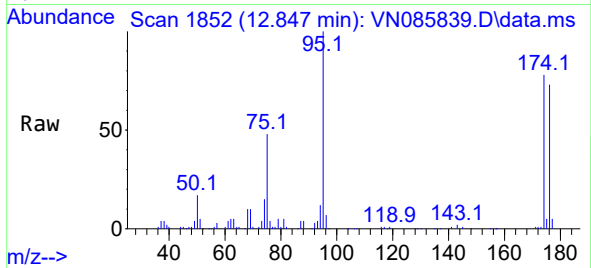




#76  
1,2,3-Trichloropropane  
Concen: 22.61 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.141 min  
Lab File: VN085839.D  
Acq: 24 Feb 2025 16:01

Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion: 75 Resp: 73234  
Ion Ratio Lower Upper  
75 100  
77 1.1 100.0 300.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 65.97 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.118 min  
Lab File: VN085839.D  
Acq: 24 Feb 2025 16:01

Tgt Ion: 75 Resp: 73234  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.2 111.4#  
89 0.0 34.9 52.3#

