

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX061324\  
 Data File : VX041855.D  
 Acq On : 13 Jun 2024 15:41  
 Operator : JC/MD  
 Sample : PB161467ZHE#10  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jun 14 00:59:58 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X052924W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 30 07:36:24 2024  
 Response via : Initial Calibration

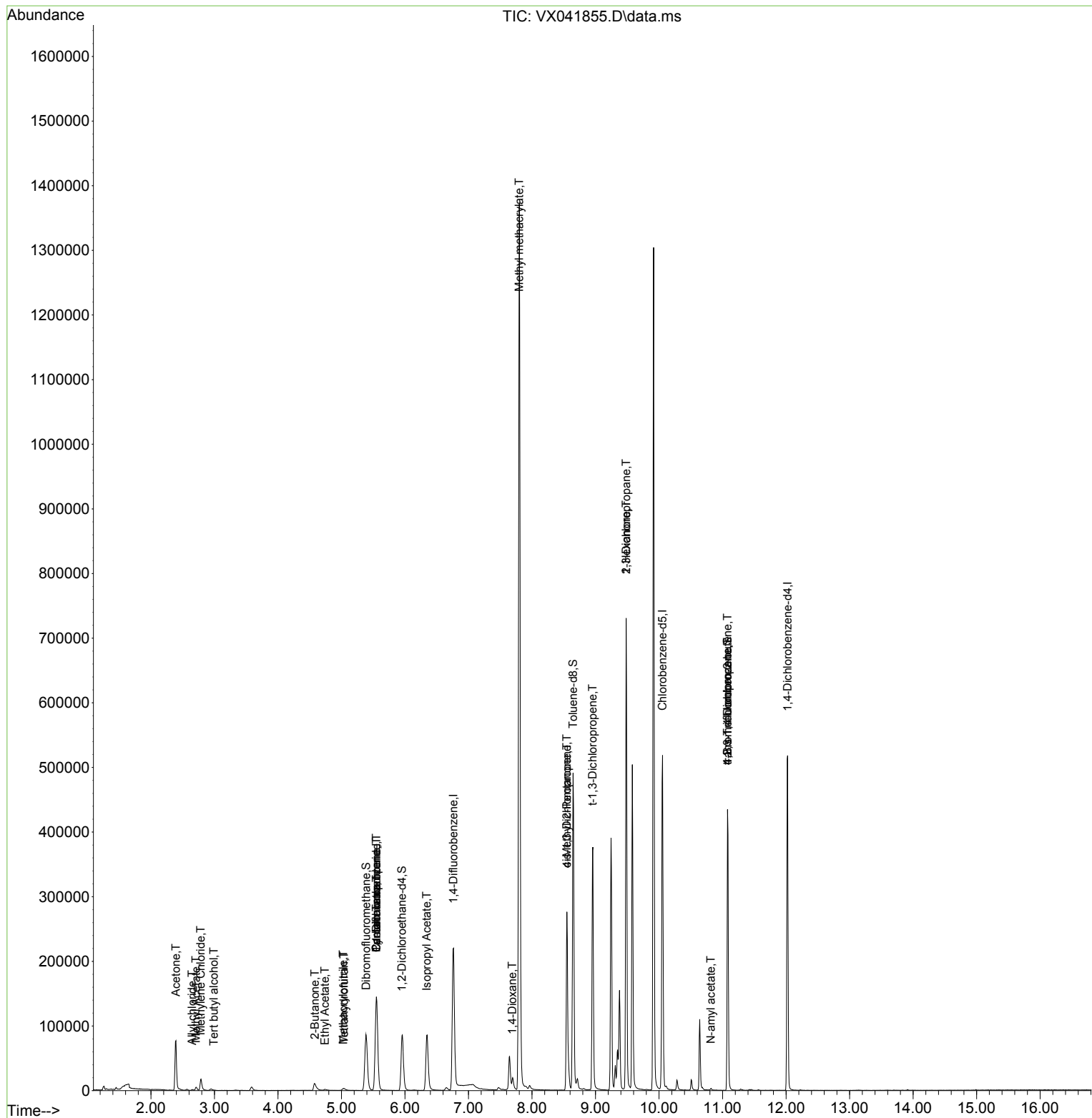
| Compound                      | R.T.           | QIon | Response   | Conc     | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|-------|----------|
| -----                         |                |      |            |          |       |          |
| Internal Standards            |                |      |            |          |       |          |
| 1) Pentafluorobenzene         | 5.550          | 168  | 158134     | 50.000   | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 251810     | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 255713     | 50.000   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 127156     | 50.000   | ug/l  | 0.00     |
| System Monitoring Compounds   |                |      |            |          |       |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 81976      | 42.267   | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 84.540%  |       |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 77500      | 44.515   | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 89.020%  |       |          |
| 50) Toluene-d8                | 8.647          | 98   | 301076     | 49.492   | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 98.980%  |       |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 114994     | 51.217   | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 102.440% |       |          |
| Target Compounds              |                |      |            |          |       |          |
|                               |                |      |            |          |       | Qvalue   |
| 11) Tert butyl alcohol        | 2.989          | 59   | 870        | 2.536    | ug/l  | # 78     |
| 14) Allyl chloride            | 2.648          | 41   | 1587       | 0.684    | ug/l  | # 40     |
| 16) Acetone                   | 2.392          | 43   | 89777      | 103.872  | ug/l  | 91       |
| 18) Methyl Acetate            | 2.709          | 43   | 7232       | 3.905    | ug/l  | 99       |
| 20) Methylene Chloride        | 2.782          | 84   | 9955       | 5.736    | ug/l  | 86       |
| 25) 2-Butanone                | 4.580          | 43   | 22716      | 18.845   | ug/l  | 97       |
| 29) Tetrahydrofuran           | 5.038          | 42   | 3463       | 4.555    | ug/l  | 99       |
| 31) Cyclohexane               | 5.550          | 56   | 2218       | 0.969    | ug/l  | # 1      |
| 36) 1,1-Dichloropropene       | 5.550          | 75   | 9593       | 4.551    | ug/l  | # 50     |
| 37) Ethyl Acetate             | 4.739          | 43   | 3036       | 1.141    | ug/l  | # 91     |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 13521      | 5.645    | ug/l  | # 15     |
| 41) Methacrylonitrile         | 5.025          | 41   | 2253       | 1.732    | ug/l  | # 45     |
| 43) Isopropyl Acetate         | 6.342          | 43   | 124463     | 30.986   | ug/l  | 96       |
| 48) Methyl methacrylate       | 7.799          | 41   | 111043     | 57.566   | ug/l  | # 45     |
| 49) 1,4-Dioxane               | 7.690          | 88   | 22         | 0.522    | ug/l  | # 1      |
| 51) 4-Methyl-2-Pentanone      | 8.549          | 43   | 100412     | 38.551   | ug/l  | # 47     |
| 53) t-1,3-Dichloropropene     | 8.951          | 75   | 845        | 0.386    | ug/l  | # 43     |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 46256      | 19.092   | ug/l  | # 53     |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 6726       | 2.403    | ug/l  | # 42     |
| 59) 2-Hexanone                | 9.482          | 43   | 81690      | 41.137   | ug/l  | # 55     |
| 74) N-amyl acetate            | 10.817         | 43   | 801        | 0.229    | ug/l  | # 44     |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 52235      | 23.544   | ug/l  | # 39     |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 52235      | 64.169   | ug/l  | # 5      |
| -----                         |                |      |            |          |       |          |

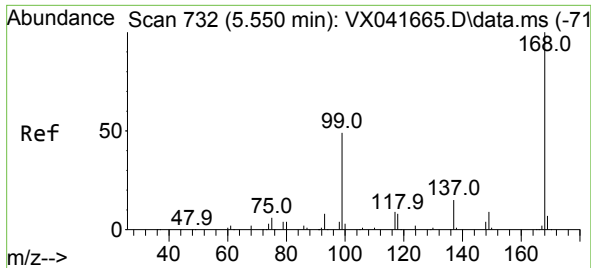
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu May 30 07:36:24 2024  
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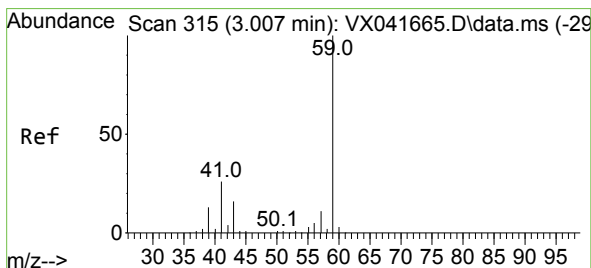
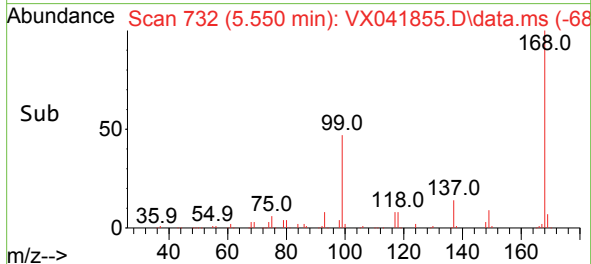
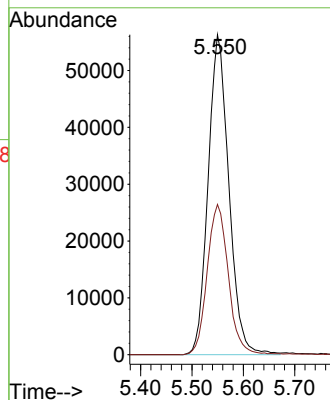
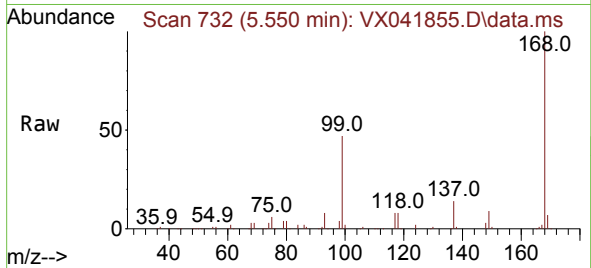




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

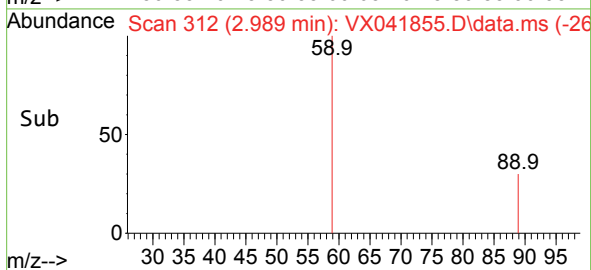
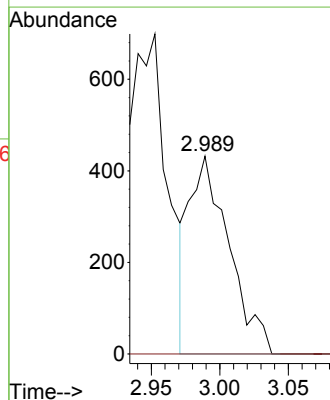
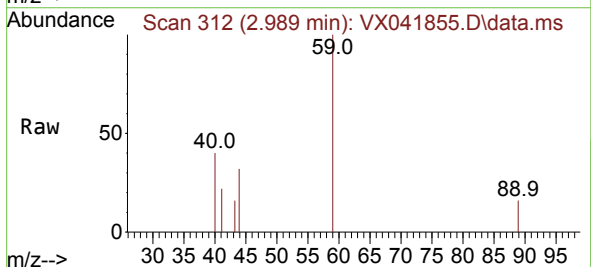
Instrument :  
MSVOA\_X  
ClientSampleId :

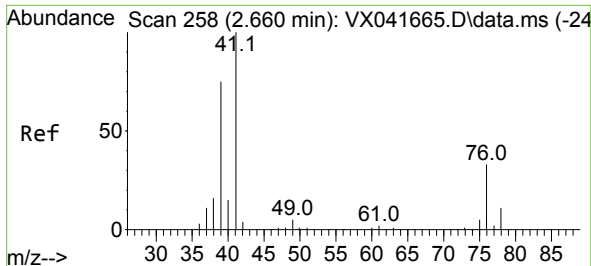
Tgt Ion:168 Resp: 158134  
Ion Ratio Lower Upper  
168 100  
99 47.0 56.6 85.0#



#11  
Tert butyl alcohol  
Concen: 2.536 ug/l  
RT: 2.989 min Scan# 312  
Delta R.T. -0.018 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

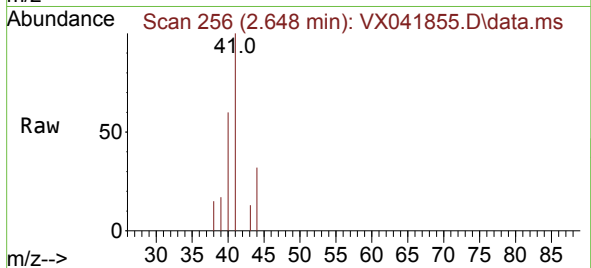
Tgt Ion: 59 Resp: 870  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#



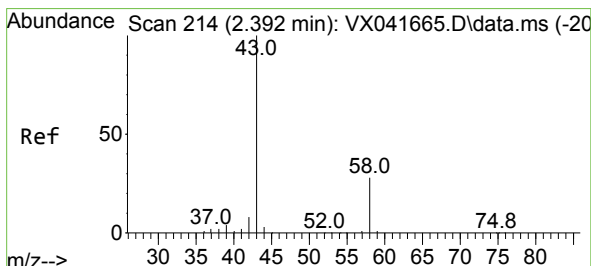
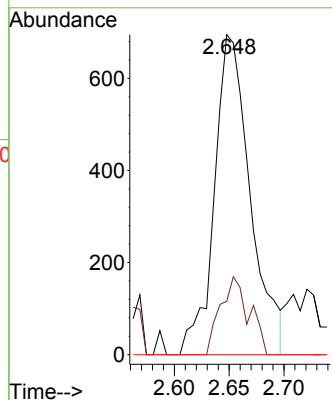


#14  
Allyl chloride  
Concen: 0.684 ug/l  
RT: 2.648 min Scan# 215  
Delta R.T. -0.012 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

Instrument :  
MSVOA\_X  
ClientSampleId :

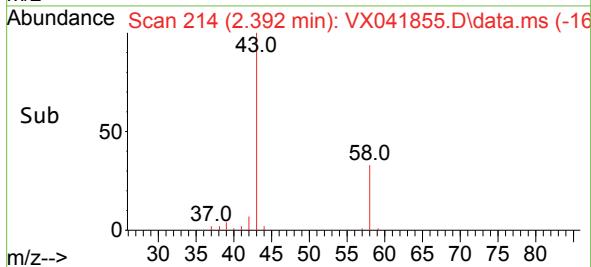
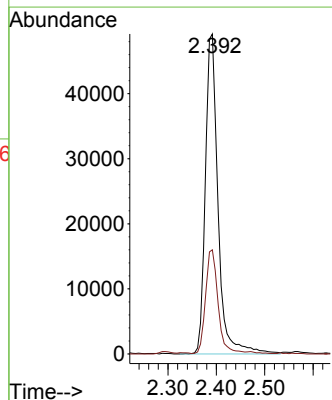
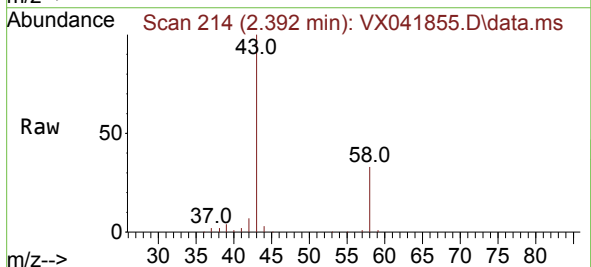


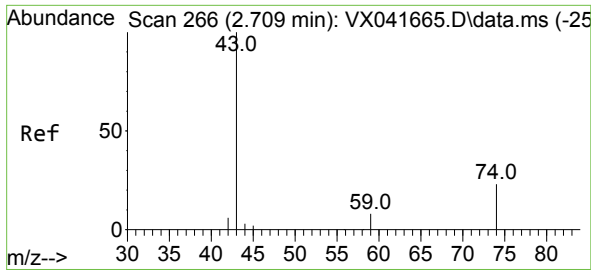
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 39      | 19.4  | 55.8  | 83.6# |
| 76      | 0.0   | 24.3  | 36.5# |



#16  
Acetone  
Concen: 103.872 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. -0.000 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 32.2  | 21.9  | 32.9  |

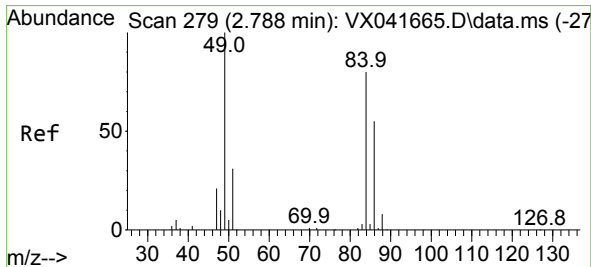
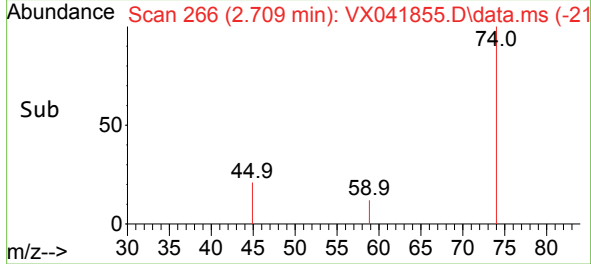
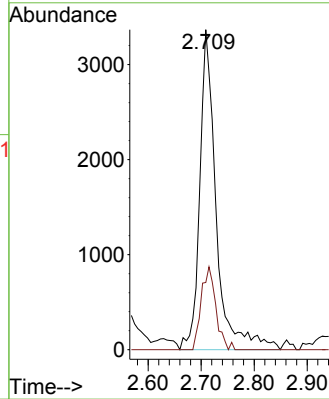
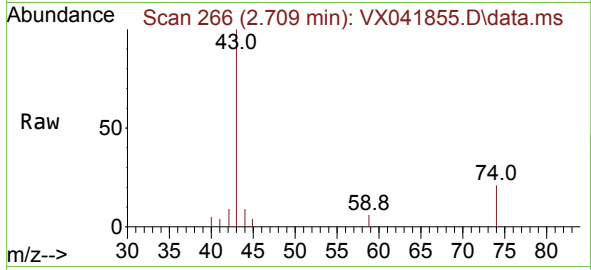




#18  
Methyl Acetate  
Concen: 3.905 ug/l  
RT: 2.709 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

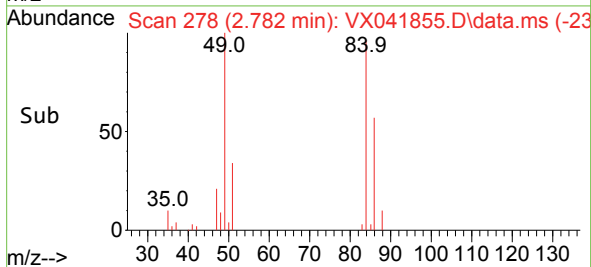
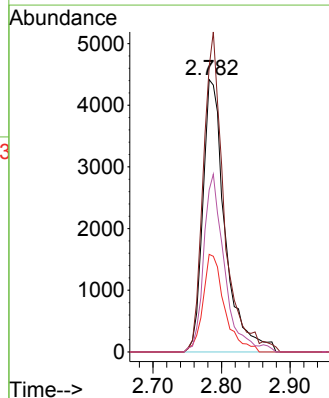
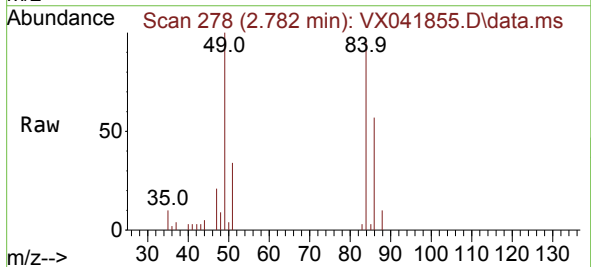
Instrument :  
MSVOA\_X  
ClientSampleId :

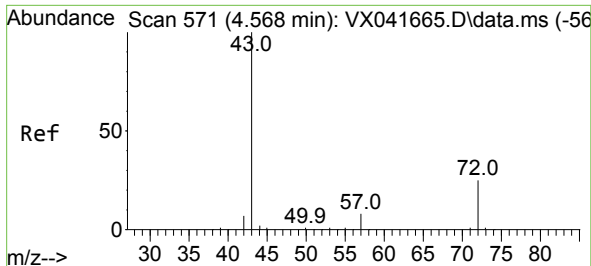
Tgt Ion: 43 Resp: 7232  
Ion Ratio Lower Upper  
43 100  
74 22.9 17.8 26.8



#20  
Methylene Chloride  
Concen: 5.736 ug/l  
RT: 2.782 min Scan# 278  
Delta R.T. -0.006 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

Tgt Ion: 84 Resp: 9955  
Ion Ratio Lower Upper  
84 100  
49 104.6 103.6 155.4  
51 35.8 33.8 50.6  
86 59.4 49.4 74.0

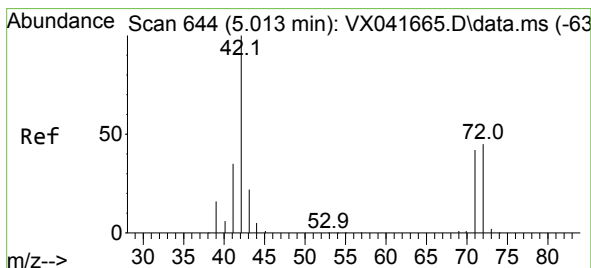
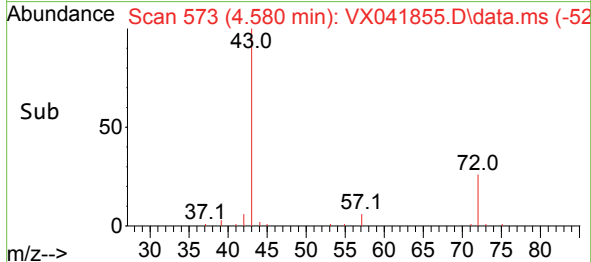
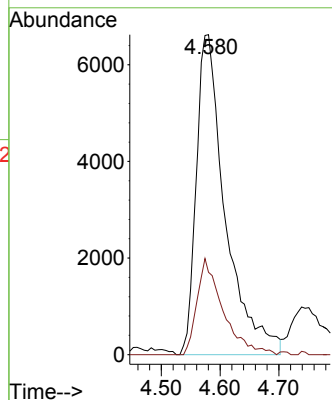
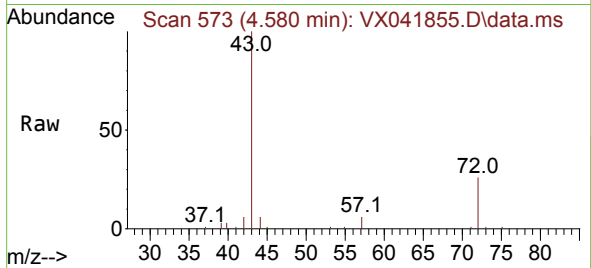




#25  
2-Butanone  
Concen: 18.845 ug/l  
RT: 4.580 min Scan# 51  
Delta R.T. 0.012 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

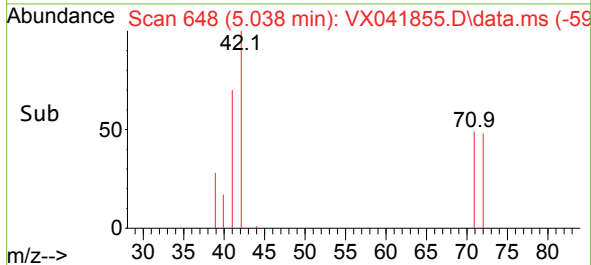
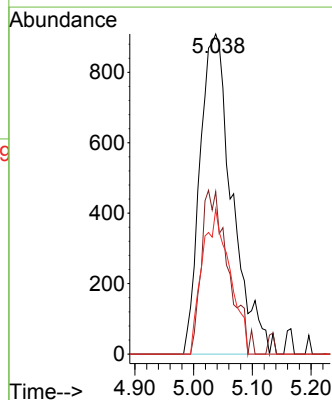
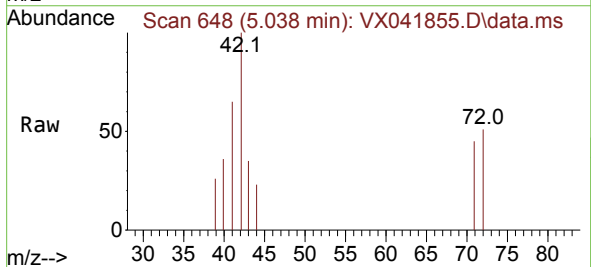
Instrument :  
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ClientSampleId :

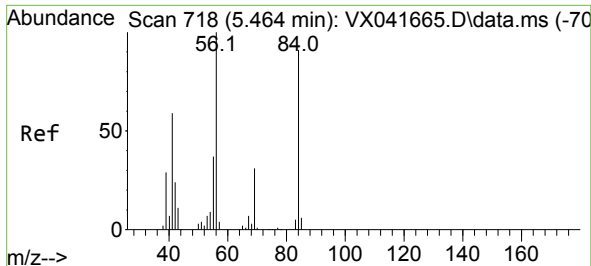
Tgt Ion: 43 Resp: 22716  
Ion Ratio Lower Upper  
43 100  
72 25.7 19.4 29.2



#29  
Tetrahydrofuran  
Concen: 4.555 ug/l  
RT: 5.038 min Scan# 648  
Delta R.T. 0.024 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

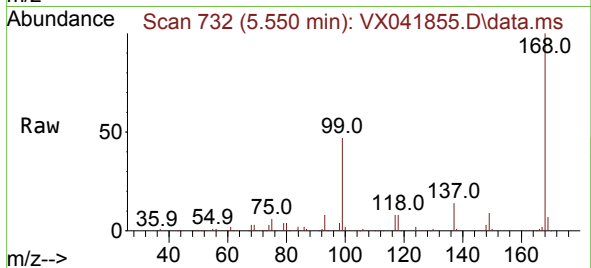
Tgt Ion: 42 Resp: 3463  
Ion Ratio Lower Upper  
42 100  
72 42.6 34.2 51.4  
71 38.6 32.2 48.2



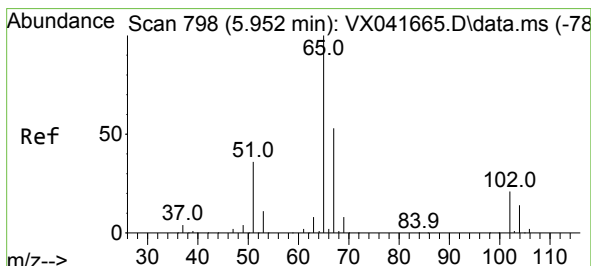
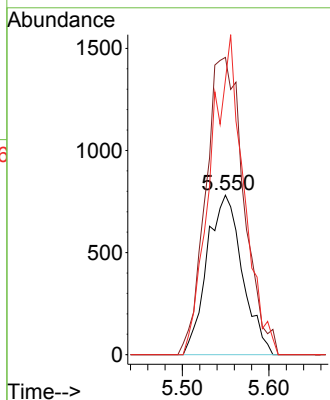
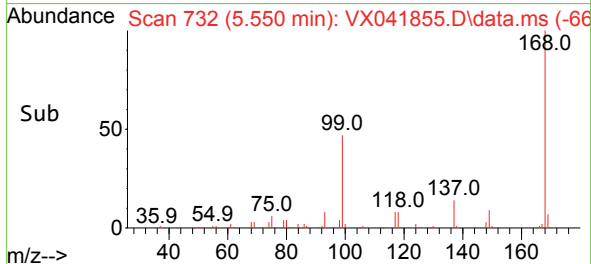


#31  
Cyclohexane  
Concen: 0.969 ug/l  
RT: 5.550 min Scan# 718  
Delta R.T. 0.085 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

Instrument :  
MSVOA\_X  
ClientSampleId :

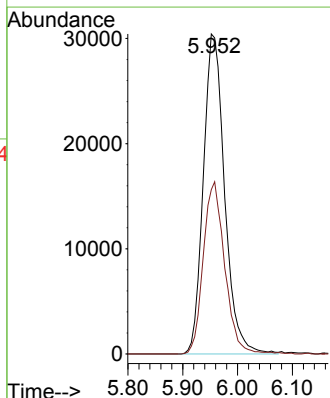
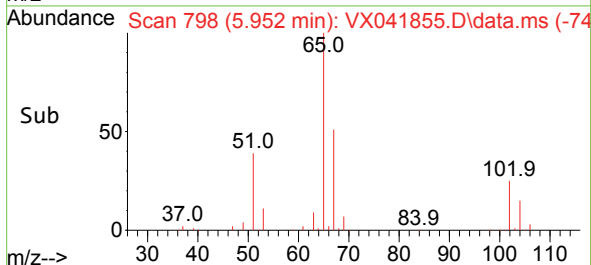
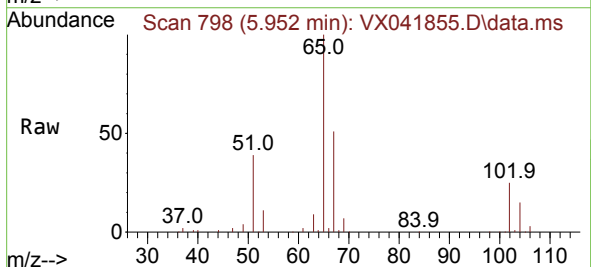


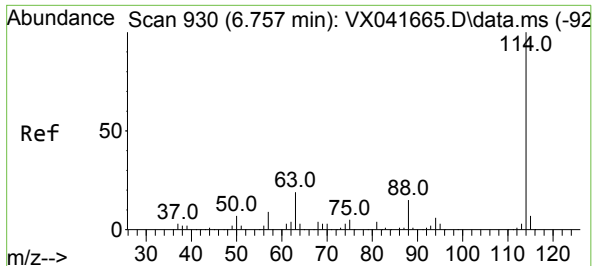
Tgt Ion: 56 Resp: 2218  
Ion Ratio Lower Upper  
56 100  
69 186.4 23.4 35.2#  
84 172.1 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 42.267 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.000 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

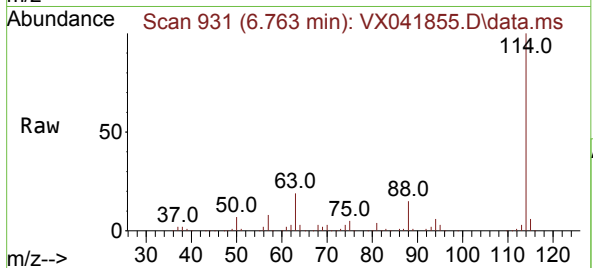
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Ion Ratio Lower Upper  
65 100  
67 54.2 0.0 100.2



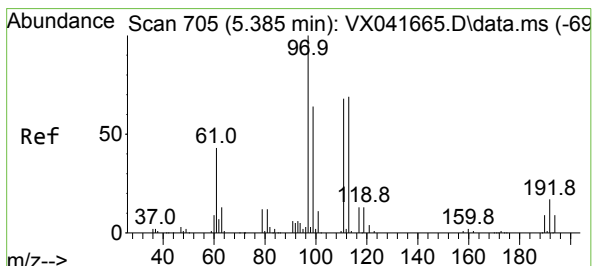
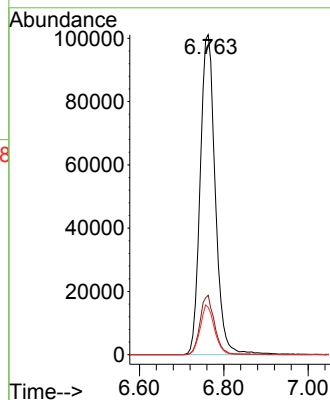
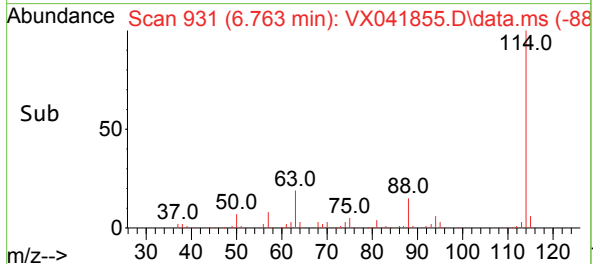


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

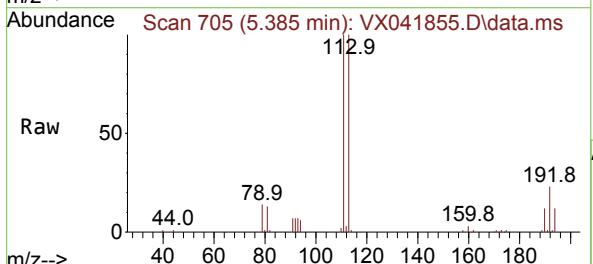
Instrument :  
MSVOA\_X  
ClientSampleId :



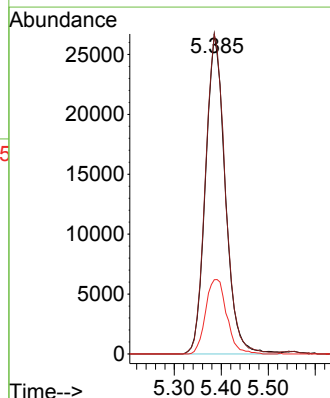
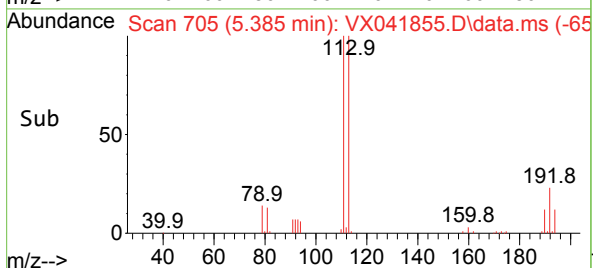
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Ion Ratio Lower Upper  
114 100  
63 18.6 0.0 45.0  
88 14.8 0.0 36.6

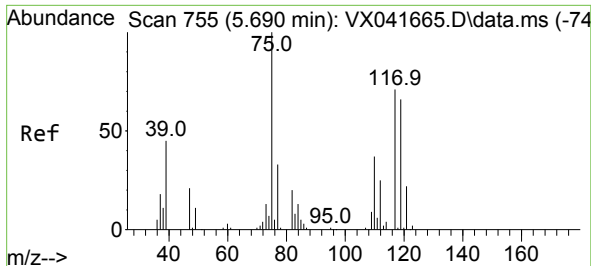


#35  
Dibromofluoromethane  
Concen: 44.515 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41



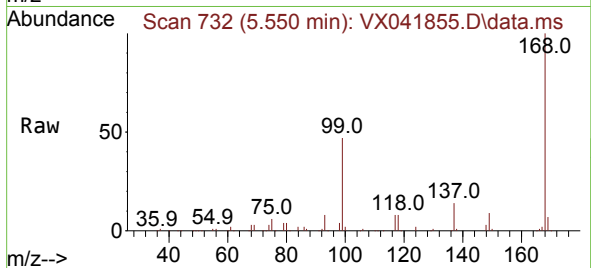
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Ion Ratio Lower Upper  
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111 101.0 82.9 124.3  
192 25.0 13.3 19.9#



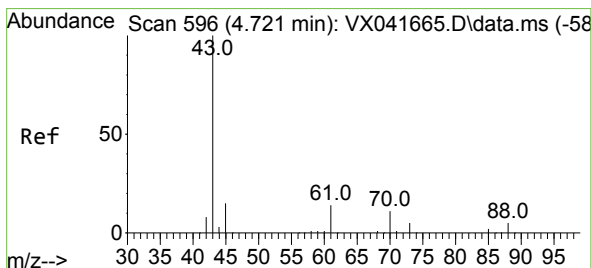
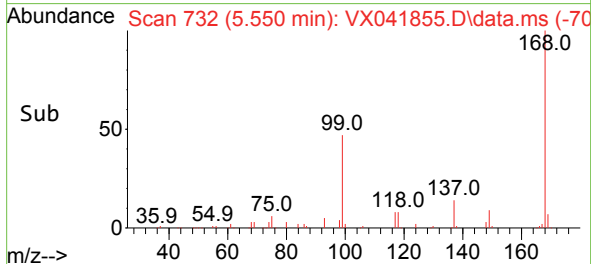
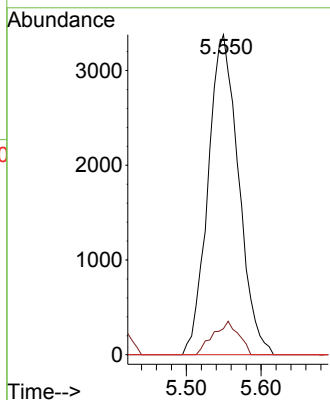


#36  
1,1-Dichloropropene  
Concen: 4.551 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.140 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

Instrument :  
MSVOA\_X  
ClientSampleId :

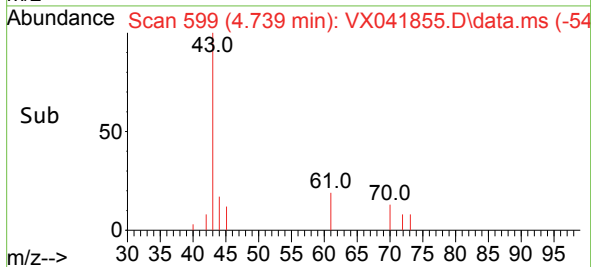
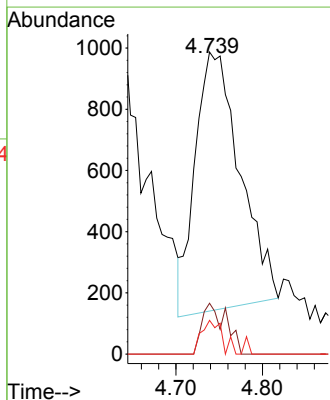
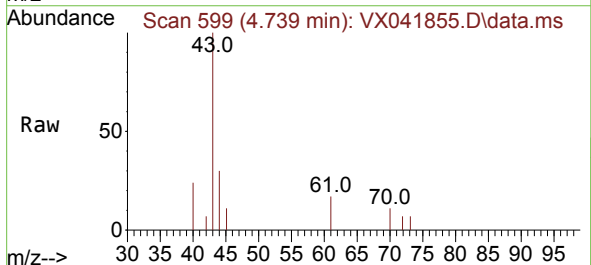


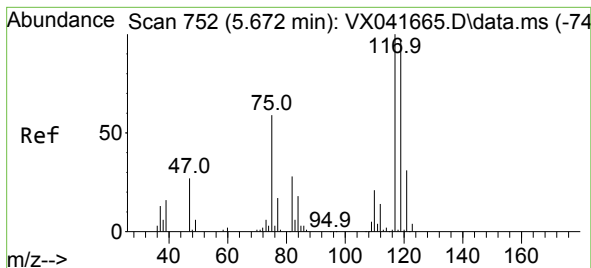
Tgt Ion: 75 Resp: 9593  
Ion Ratio Lower Upper  
75 100  
110 8.7 17.0 50.9#  
77 0.0 24.7 37.1#



#37  
Ethyl Acetate  
Concen: 1.141 ug/l  
RT: 4.739 min Scan# 599  
Delta R.T. 0.018 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

Tgt Ion: 43 Resp: 3036  
Ion Ratio Lower Upper  
43 100  
61 10.5 10.6 16.0#  
70 6.0 8.3 12.5#





#38

Carbon Tetrachloride

Concen: 5.645 ug/l

RT: 5.550 min Scan# 71

Delta R.T. -0.122 min

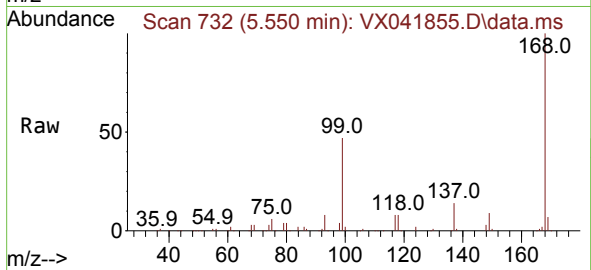
Lab File: VX041855.D

Acq: 13 Jun 2024 15:41

Instrument :

MSVOA\_X

ClientSampleId :



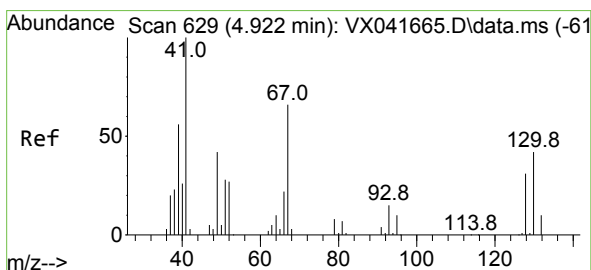
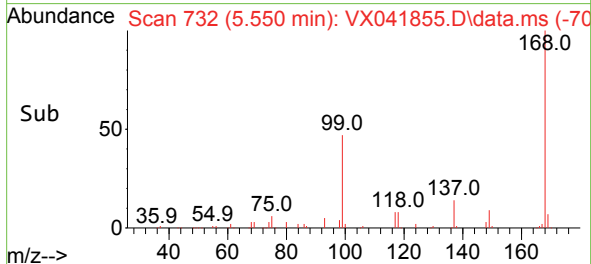
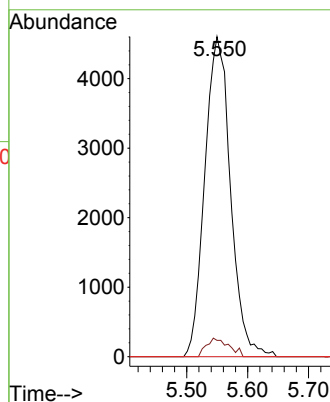
Tgt Ion:117 Resp: 13521

Ion Ratio Lower Upper

117 100

119 5.1 78.2 117.2#

121 0.0 24.4 36.6#



#41

Methacrylonitrile

Concen: 1.732 ug/l

RT: 5.025 min Scan# 646

Delta R.T. 0.104 min

Lab File: VX041855.D

Acq: 13 Jun 2024 15:41

Tgt Ion: 41 Resp: 2253

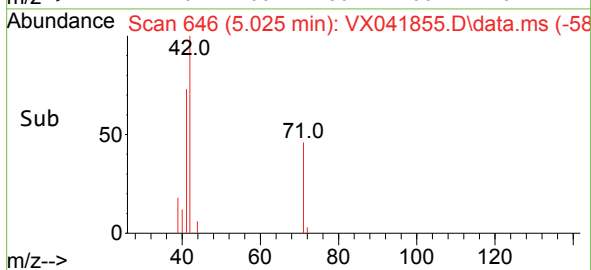
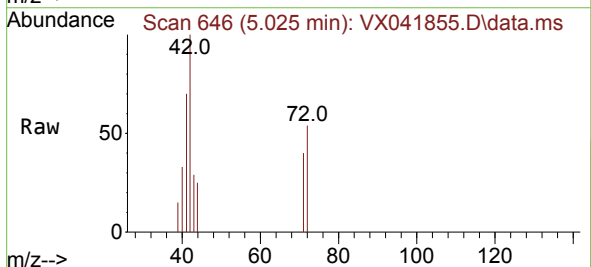
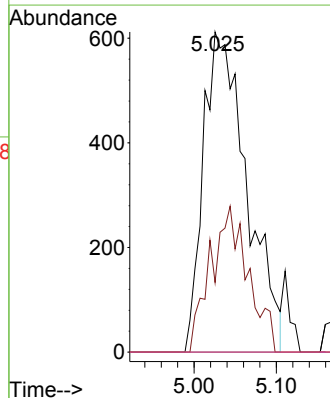
Ion Ratio Lower Upper

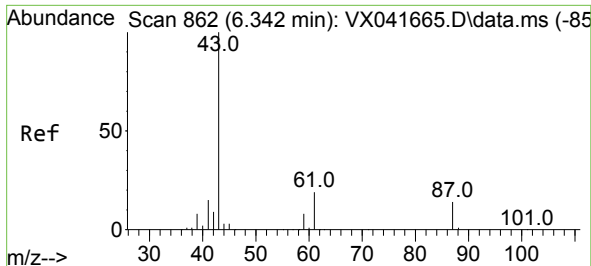
41 100

39 39.3 45.2 67.8#

67 0.0 52.6 78.8#

52 0.0 22.7 34.1#

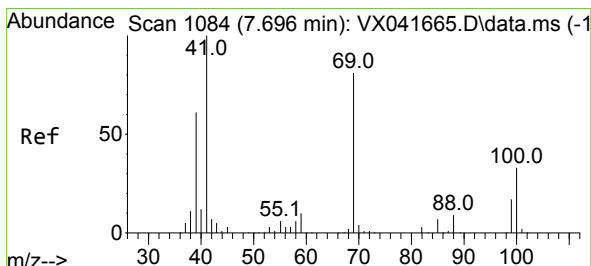
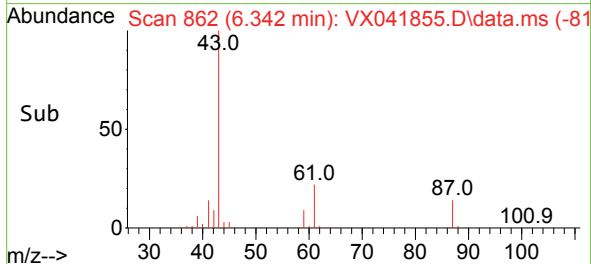
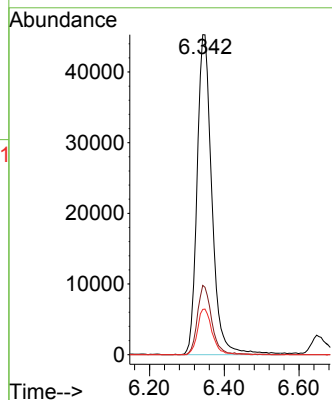
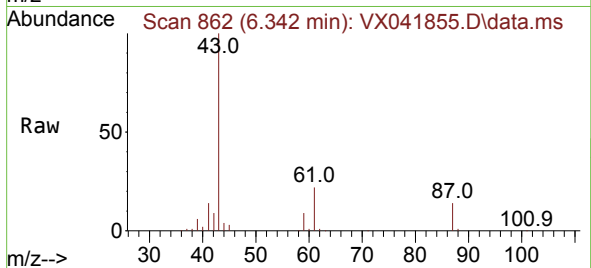




#43  
Isopropyl Acetate  
Concen: 30.986 ug/l  
RT: 6.342 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

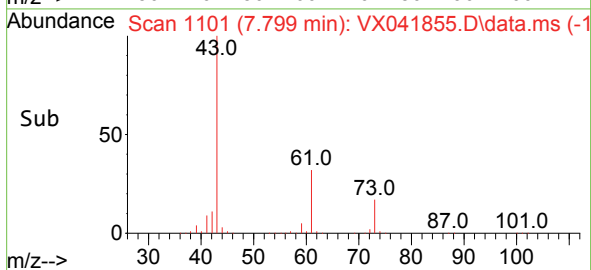
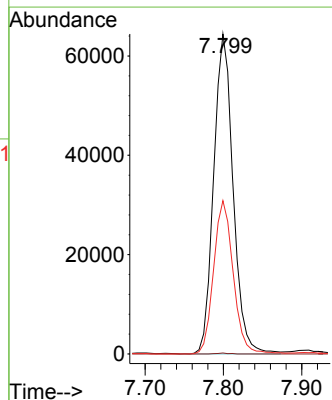
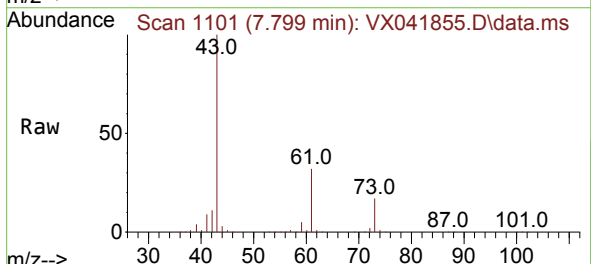
Instrument :  
MSVOA\_X  
ClientSampleId :

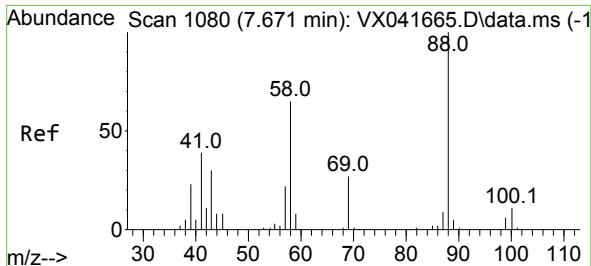
Tgt Ion: 43 Resp: 124463  
Ion Ratio Lower Upper  
43 100  
61 20.9 15.2 22.8  
87 14.1 9.8 14.6



#48  
Methyl methacrylate  
Concen: 57.566 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.104 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

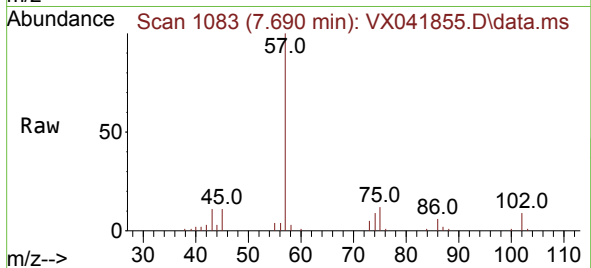
Tgt Ion: 41 Resp: 111043  
Ion Ratio Lower Upper  
41 100  
69 0.2 59.2 88.8#  
39 48.4 47.7 71.5



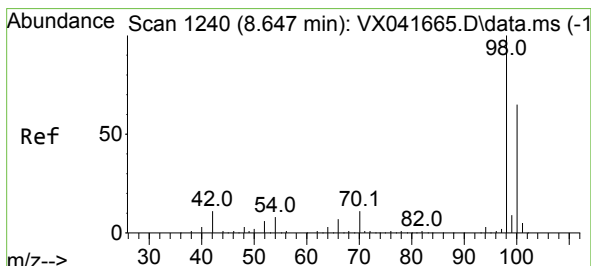
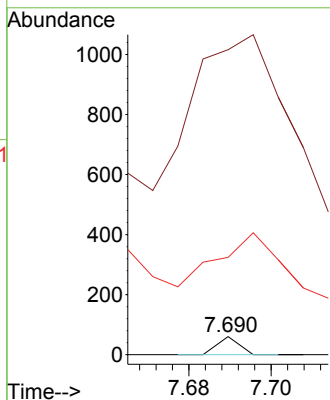
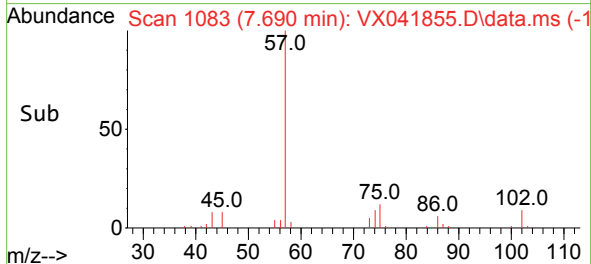


#49  
1,4-Dioxane  
Concen: 0.522 ug/l  
RT: 7.690 min Scan# 1083  
Delta R.T. 0.018 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

Instrument :  
MSVOA\_X  
ClientSampleId :

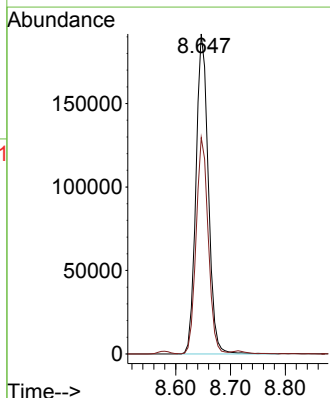
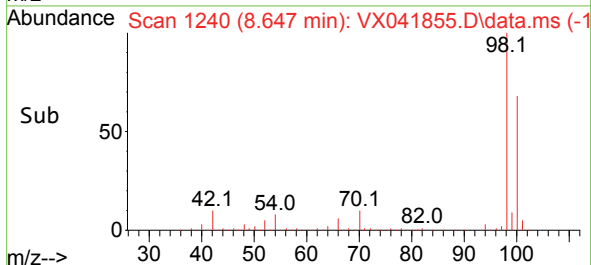
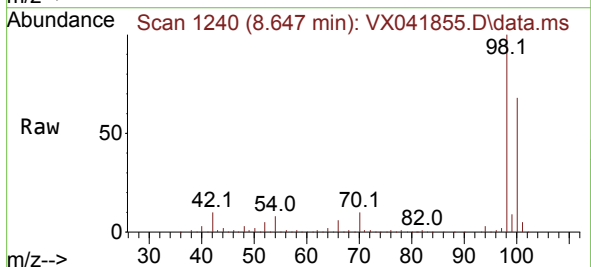


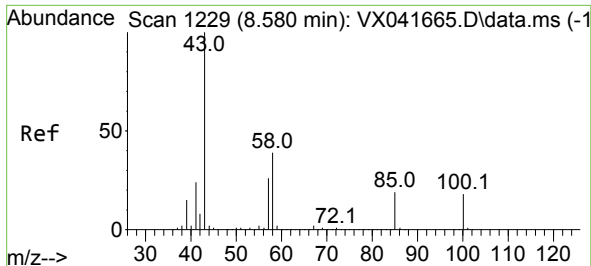
Tgt Ion: 88 Resp: 22  
Ion Ratio Lower Upper  
88 100  
43 0.0 0.0 0.0  
58 3350.0 60.1 90.1#



#50  
Toluene-d8  
Concen: 49.492 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.000 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

Tgt Ion: 98 Resp: 301076  
Ion Ratio Lower Upper  
98 100  
100 66.3 53.1 79.7

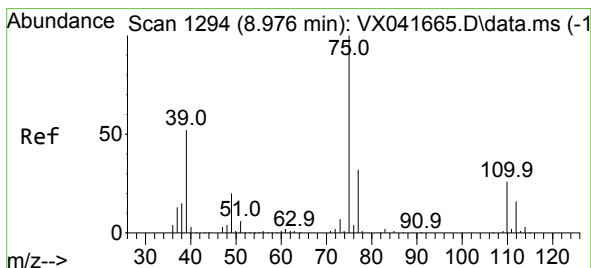
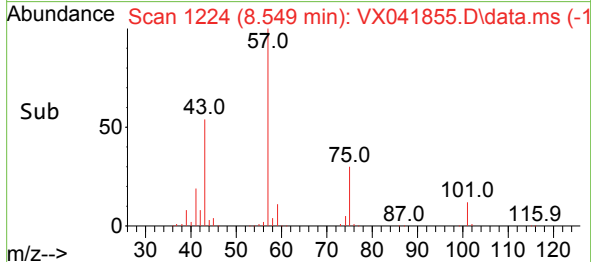
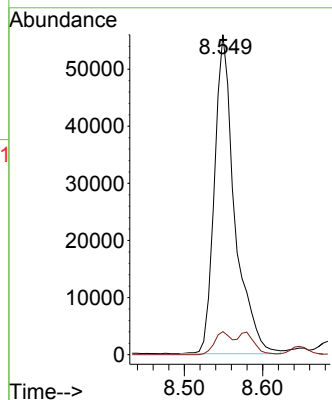
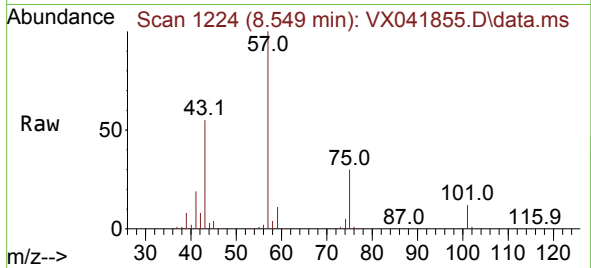




#51  
4-Methyl-2-Pentanone  
Concen: 38.551 ug/l  
RT: 8.549 min Scan# 11  
Delta R.T. -0.030 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

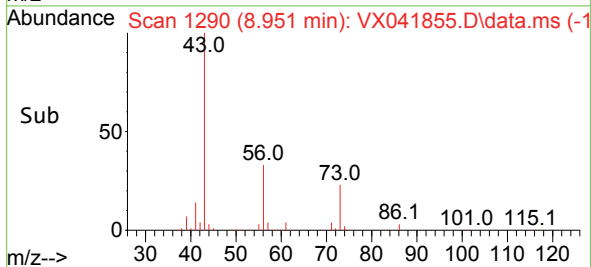
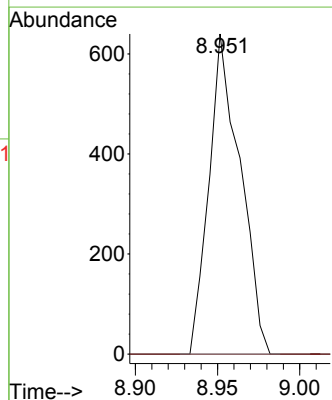
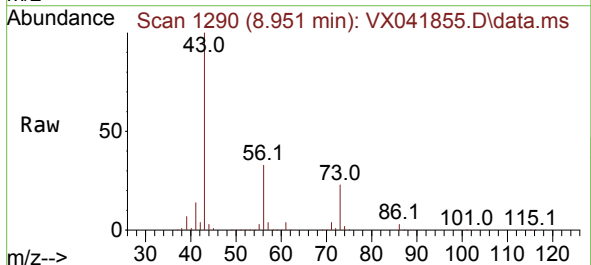
Instrument :  
MSVOA\_X  
ClientSampleId :

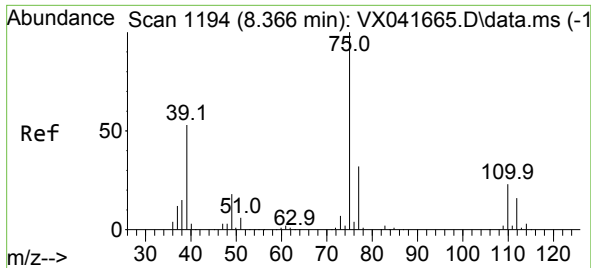
Tgt Ion: 43 Resp: 100412  
Ion Ratio Lower Upper  
43 100  
58 5.9 30.4 45.6#



#53  
t-1,3-Dichloropropene  
Concen: 0.386 ug/l  
RT: 8.951 min Scan# 1290  
Delta R.T. -0.024 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

Tgt Ion: 75 Resp: 845  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.7 38.5#

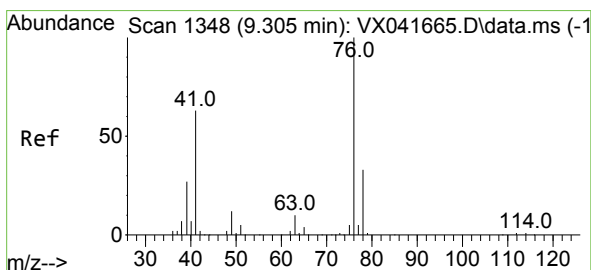
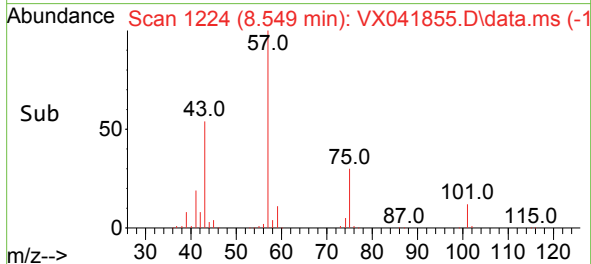
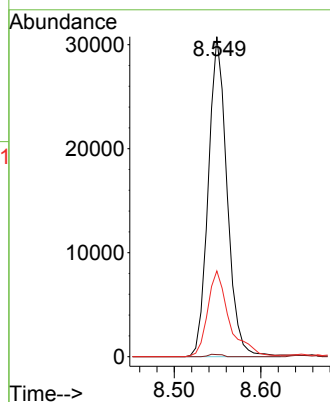
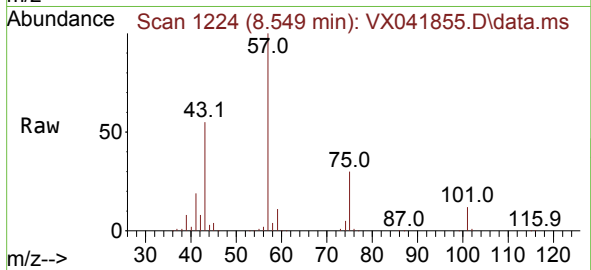




#54  
 cis-1,3-Dichloropropene  
 Concen: 19.092 ug/l  
 RT: 8.549 min Scan# 1194  
 Delta R.T. 0.183 min  
 Lab File: VX041855.D  
 Acq: 13 Jun 2024 15:41

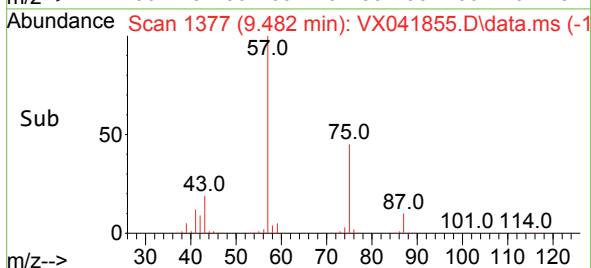
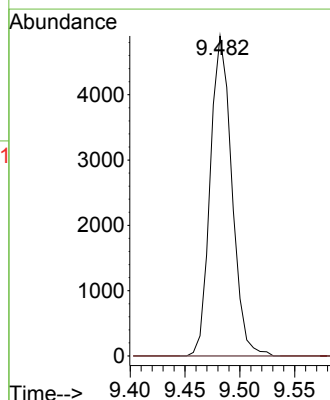
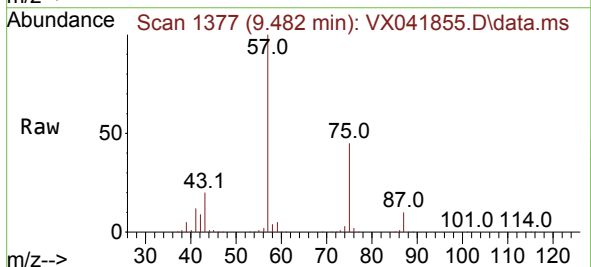
Instrument :  
 MSVOA\_X  
 ClientSampleId :

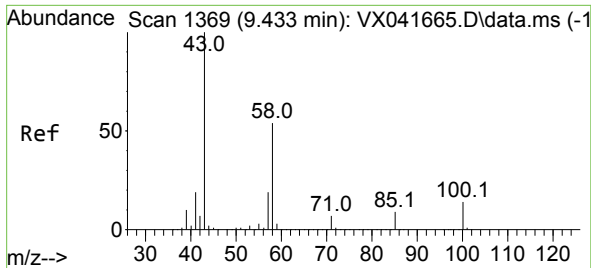
Tgt Ion: 75 Resp: 46256  
 Ion Ratio Lower Upper  
 75 100  
 77 0.6 25.3 37.9#  
 39 26.8 46.7 70.1#



#57  
 1,3-Dichloropropane  
 Concen: 2.403 ug/l  
 RT: 9.482 min Scan# 1377  
 Delta R.T. 0.177 min  
 Lab File: VX041855.D  
 Acq: 13 Jun 2024 15:41

Tgt Ion: 76 Resp: 6726  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 26.1 39.1#

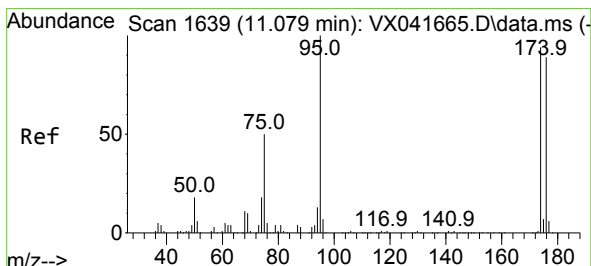
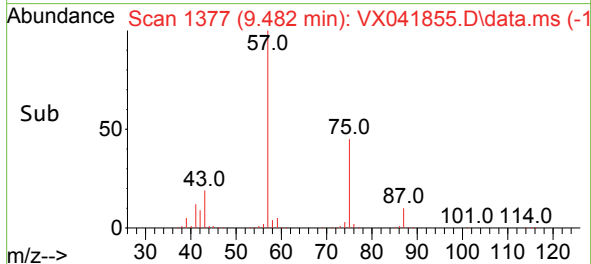
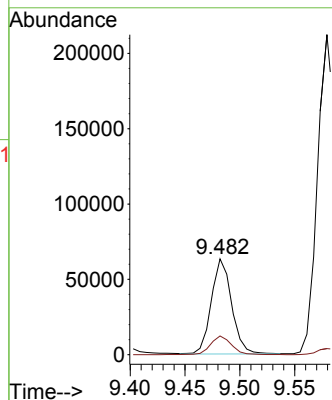
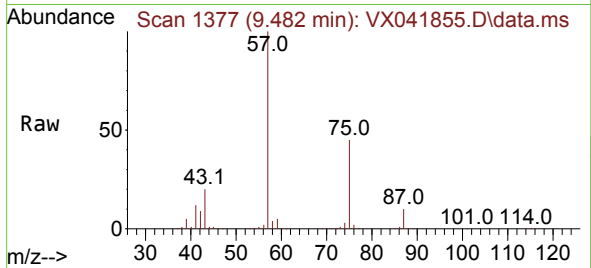




#59  
2-Hexanone  
Concen: 41.137 ug/l  
RT: 9.482 min Scan# 11  
Delta R.T. 0.049 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

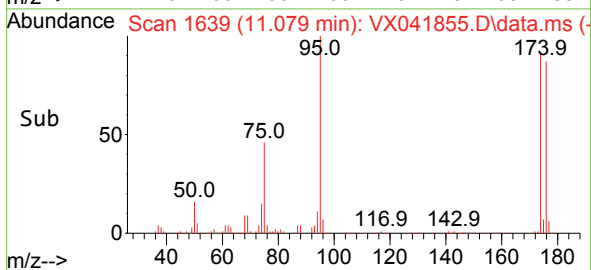
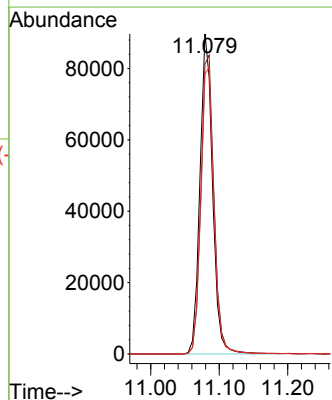
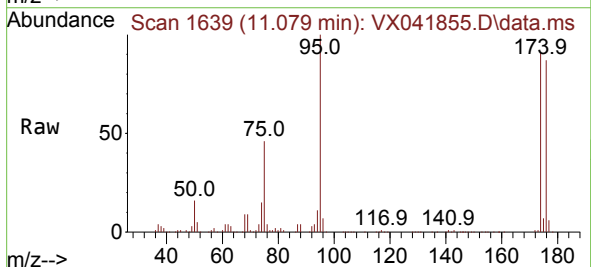
Instrument :  
MSVOA\_X  
ClientSampleId :

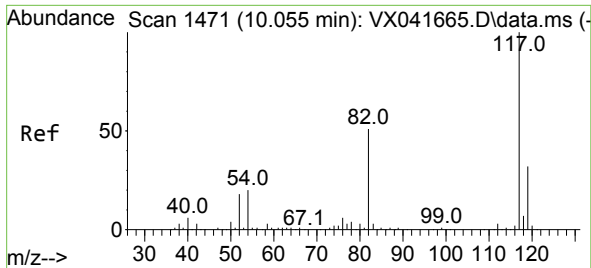
Tgt Ion: 43 Resp: 81690  
Ion Ratio Lower Upper  
43 100  
58 20.5 26.2 78.5#



#62  
4-Bromofluorobenzene  
Concen: 51.217 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

Tgt Ion: 95 Resp: 114994  
Ion Ratio Lower Upper  
95 100  
174 97.4 0.0 135.6  
176 93.7 0.0 131.0

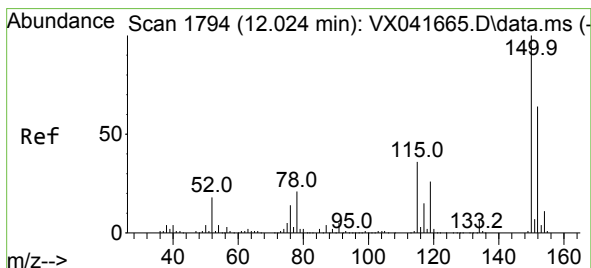
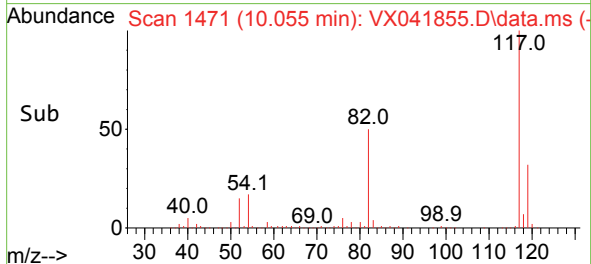
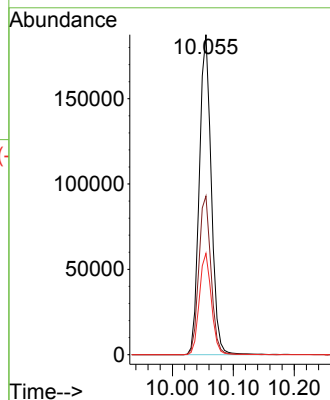
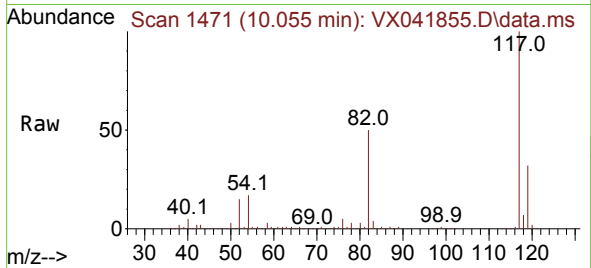




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

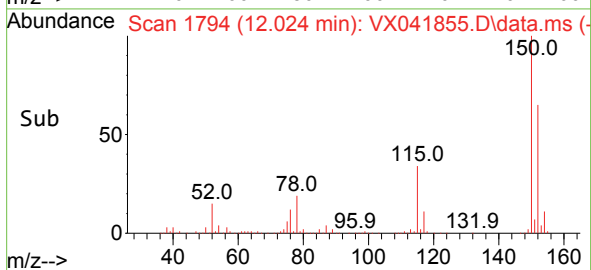
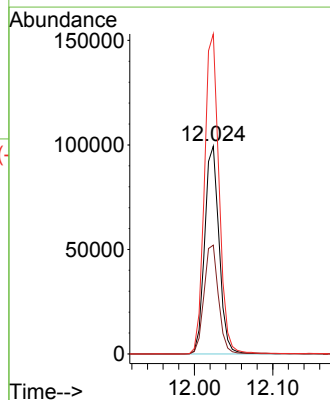
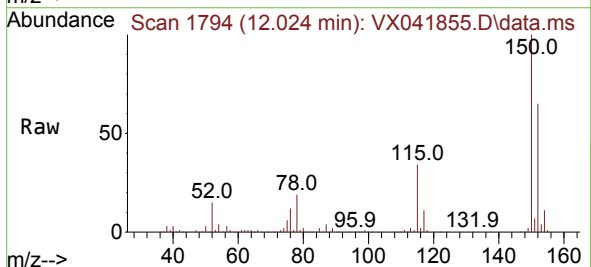
Instrument :  
MSVOA\_X  
ClientSampleId :

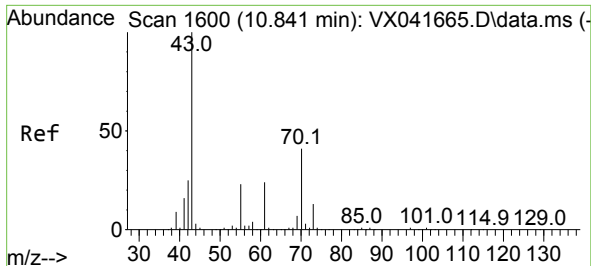
Tgt Ion:117 Resp: 255713  
Ion Ratio Lower Upper  
117 100  
82 49.5 46.2 69.4  
119 31.7 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

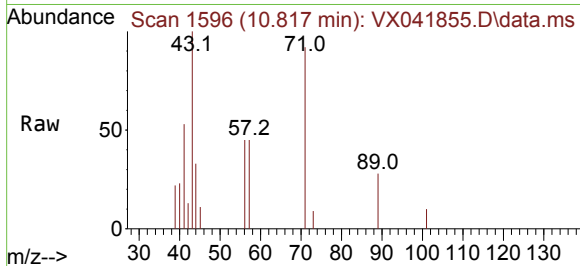
Tgt Ion:152 Resp: 127156  
Ion Ratio Lower Upper  
152 100  
115 52.9 43.3 129.9  
150 156.1 0.0 345.0



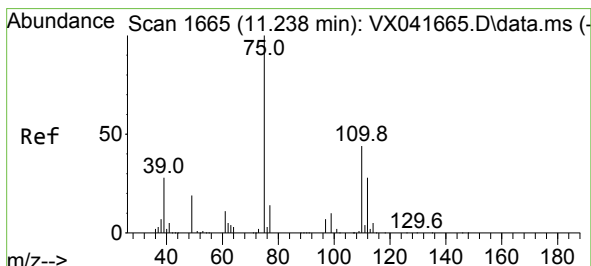
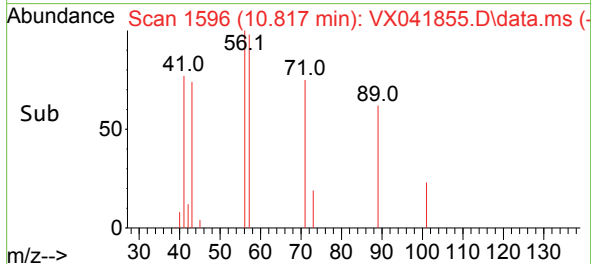
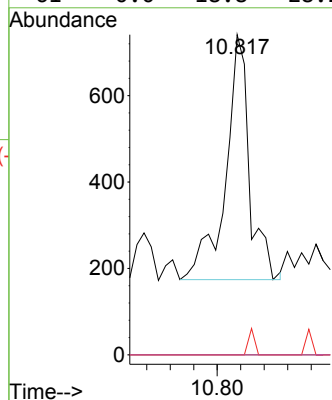


#74  
N-amy1 acetate  
Concen: 0.229 ug/l  
RT: 10.817 min Scan# 1639  
Delta R.T. -0.024 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

Instrument :  
MSVOA\_X  
ClientSampleId :

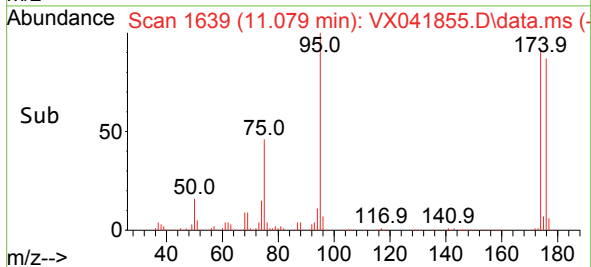
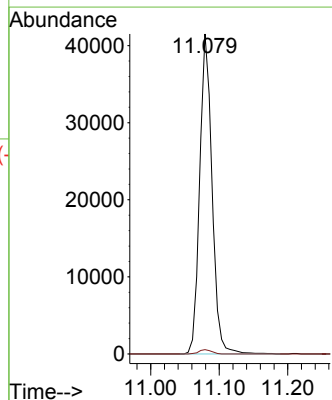
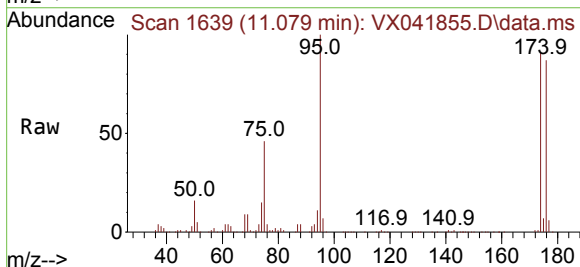


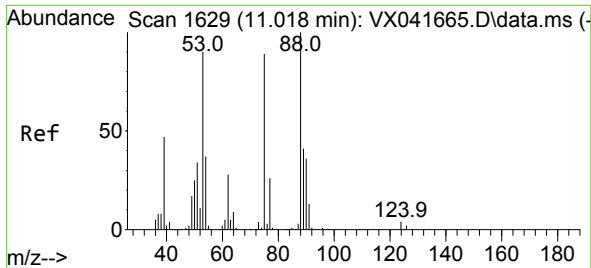
|             |                |
|-------------|----------------|
| Tgt Ion: 43 | Resp: 801      |
| Ion Ratio   | Lower Upper    |
| 43          | 100            |
| 70          | 0.0 32.9 49.3# |
| 55          | 0.0 19.3 28.9# |
| 61          | 0.0 18.8 28.2# |



#76  
1,2,3-Trichloropropane  
Concen: 23.544 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

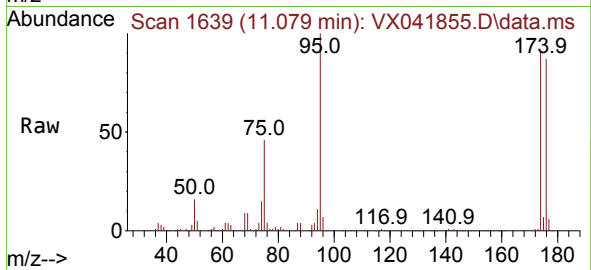
|             |                |
|-------------|----------------|
| Tgt Ion: 75 | Resp: 52235    |
| Ion Ratio   | Lower Upper    |
| 75          | 100            |
| 77          | 1.4 19.1 57.5# |





#81  
trans-1,4-Dichloro-2-butene  
Concen: 64.169 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX041855.D  
Acq: 13 Jun 2024 15:41

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 75 Resp: 52235  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#

