

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX011024\  
 Data File : VX039707.D  
 Acq On : 10 Jan 2024 16:31  
 Operator : JC/MD  
 Sample : P1084-03 50X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 OWS-PROJECT

Quant Time: Jan 11 04:01:03 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 11 03:51:26 2024  
 Response via : Initial Calibration

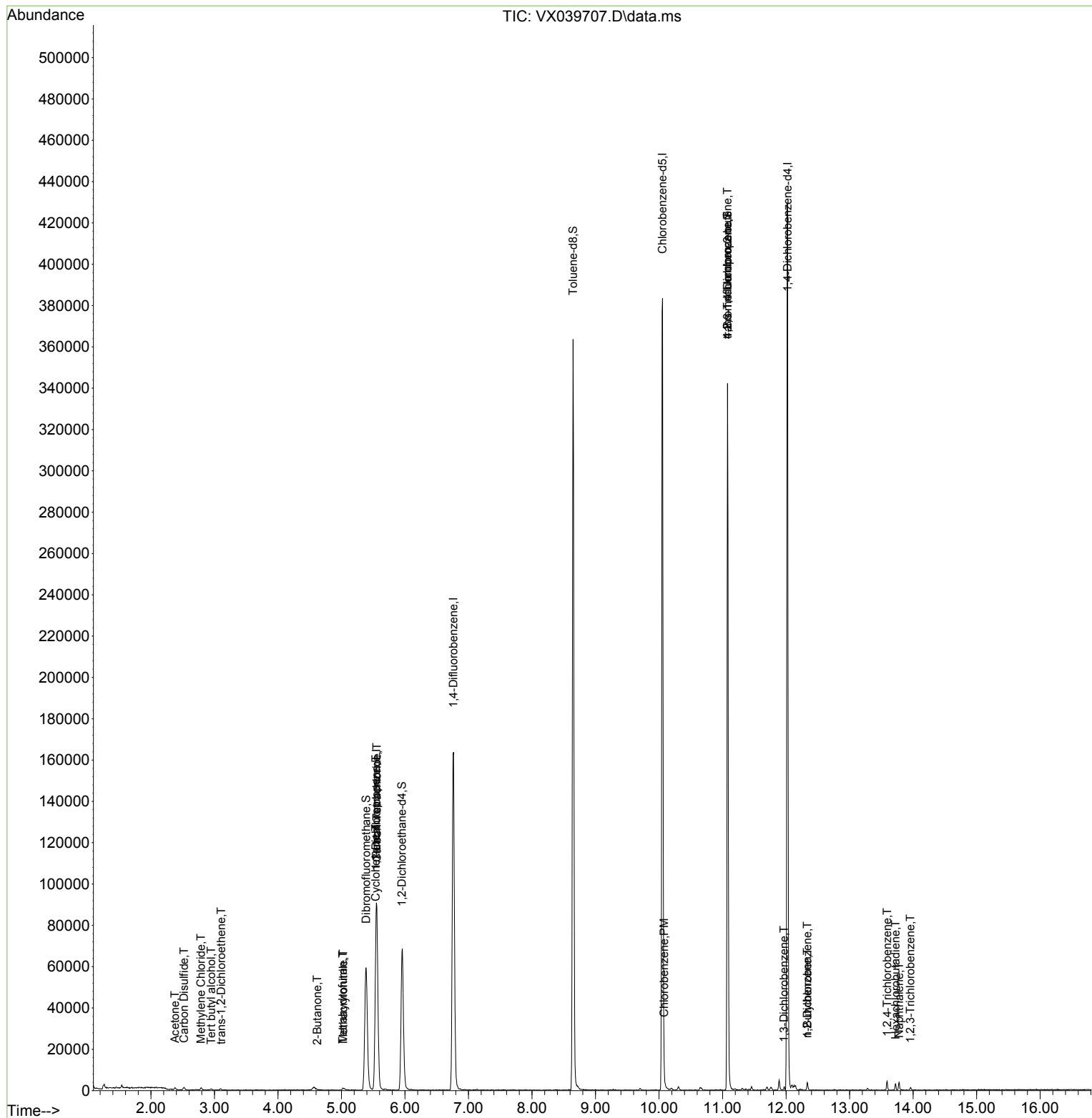
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 5.550          | 168  | 81102      | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 162930     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 171113     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 84495      | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 64432      | 47.426    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 94.860%   |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 52274      | 47.634    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 95.260%   |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 205331     | 49.610    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 99.220%   |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 89298      | 55.173    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 110.340%  |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        | Qvalue   |
| 11) Tert butyl alcohol        | 2.946          | 59   | 378        | 1.069     | ug/l # | 78       |
| 13) Acrolein                  | 2.233          | 56   | 61         | Below Cal | #      | 14       |
| 16) Acetone                   | 2.380          | 43   | 1043       | 1.365     | ug/l   | 94       |
| 17) Carbon Disulfide          | 2.520          | 76   | 1023       | 0.365     | ug/l # | 94       |
| 20) Methylene Chloride        | 2.788          | 84   | 460        | 0.398     | ug/l # | 83       |
| 21) trans-1,2-Dichloroethene  | 3.105          | 96   | 328        | 0.319     | ug/l   | 82       |
| 25) 2-Butanone                | 4.617          | 43   | 226        | 0.206     | ug/l # | 51       |
| 29) Tetrahydrofuran           | 5.019          | 42   | 929        | 1.315     | ug/l # | 75       |
| 31) Cyclohexane               | 5.537          | 56   | 2276       | 1.269     | ug/l # | 21       |
| 36) 1,1-Dichloropropene       | 5.544          | 75   | 7595       | 4.446     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.556          | 117  | 8960       | 5.727     | ug/l # | 15       |
| 41) Methacrylonitrile         | 5.025          | 41   | 257        | 0.231     | ug/l # | 46       |
| 65) Chlorobenzene             | 10.079         | 112  | 740        | 0.208     | ug/l # | 82       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 48950      | 22.345    | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 48950      | 64.736    | ug/l # | 5        |
| 87) 1,3-Dichlorobenzene       | 11.969         | 146  | 591        | 0.206     | ug/l   | 91       |
| 89) n-Butylbenzene            | 12.335         | 91   | 1116       | 0.204     | ug/l   | 86       |
| 91) 1,2-Dichlorobenzene       | 12.335         | 146  | 628        | 0.221     | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 13.591         | 180  | 1056       | 0.609     | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 13.725         | 225  | 438        | 0.607     | ug/l   | 95       |
| 95) Naphthalene               | 13.780         | 128  | 2648       | 0.415     | ug/l   | 97       |
| 96) 1,2,3-Trichlorobenzene    | 13.957         | 180  | 529        | 0.302     | ug/l   | 81       |
| -----                         |                |      |            |           |        |          |

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

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Sample : P1084-03 50X  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
OWS-PROJECT

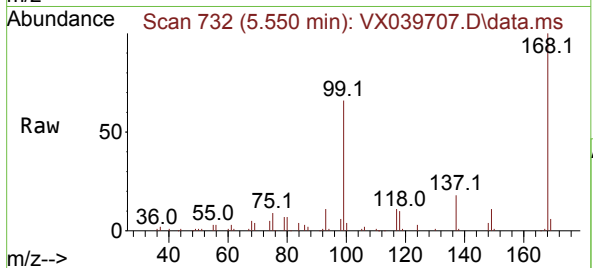
Quant Time: Jan 11 04:01:03 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011024W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jan 11 03:51:26 2024  
Response via : Initial Calibration



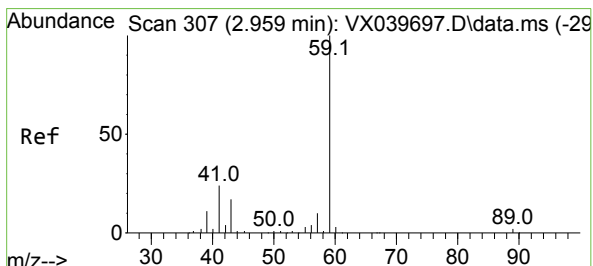
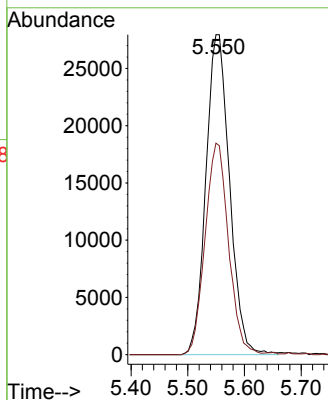
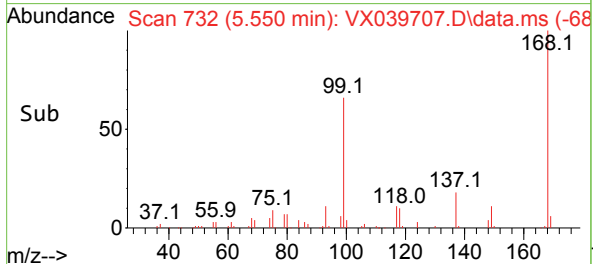


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX039707.D  
Acq: 10 Jan 2024 16:31

Instrument :  
MSVOA\_X  
ClientSampleId :  
OWS-PROJECT

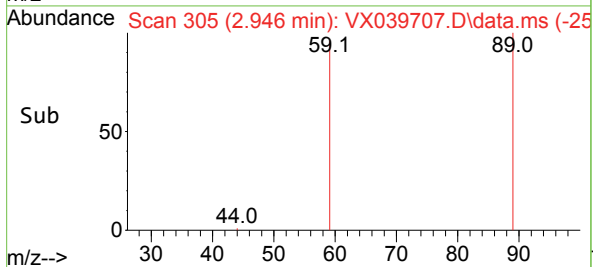
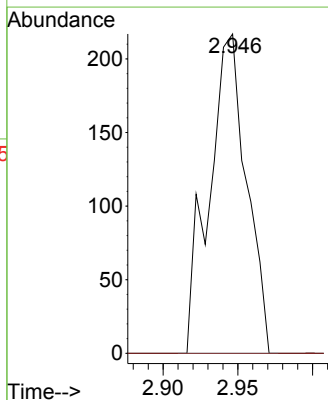
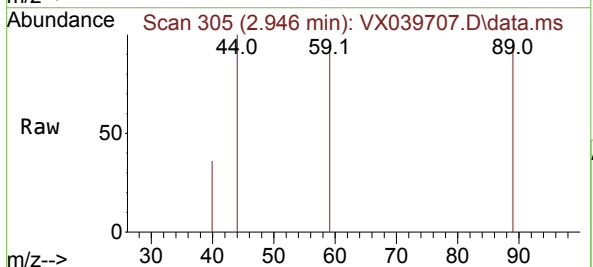


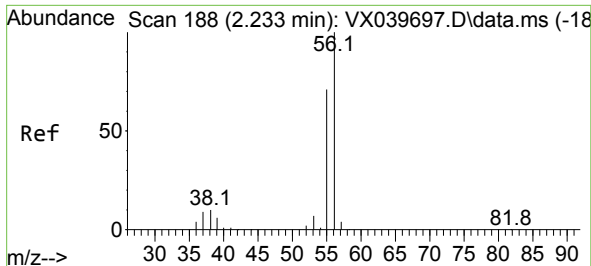
Tgt Ion:168 Resp: 81102  
Ion Ratio Lower Upper  
168 100  
99 66.1 56.6 85.0



#11  
Tert butyl alcohol  
Concen: 1.069 ug/l  
RT: 2.946 min Scan# 305  
Delta R.T. -0.012 min  
Lab File: VX039707.D  
Acq: 10 Jan 2024 16:31

Tgt Ion: 59 Resp: 378  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#

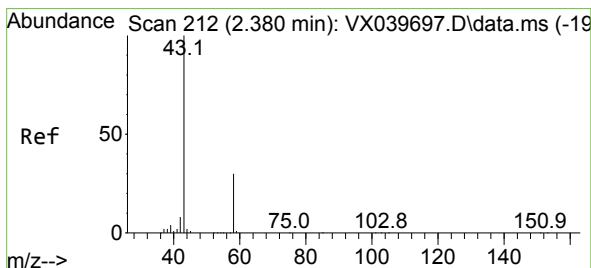
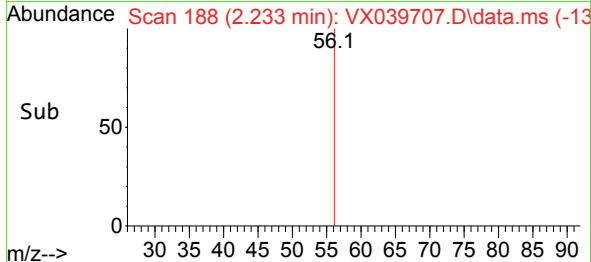
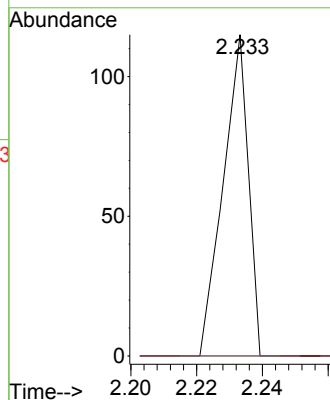
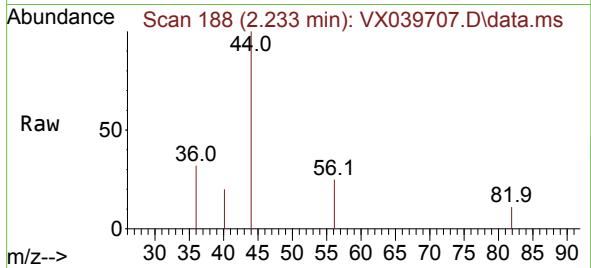




#13  
Acrolein  
Concen: Below Cal  
RT: 2.233 min Scan# 188  
Delta R.T. 0.000 min  
Lab File: VX039707.D  
Acq: 10 Jan 2024 16:31

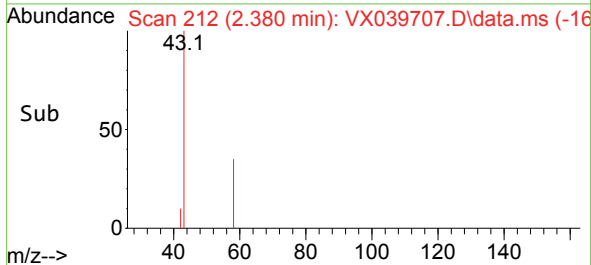
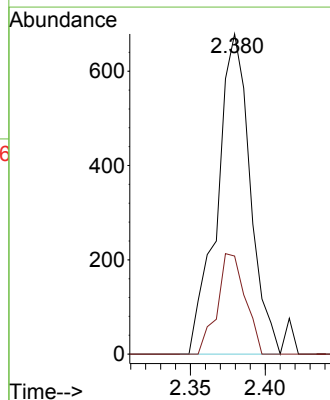
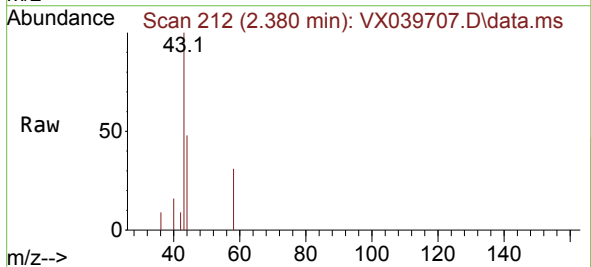
Instrument :  
MSVOA\_X  
ClientSampleId :  
OWS-PROJECT

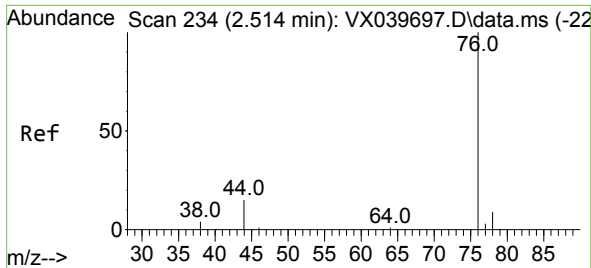
Tgt Ion: 56 Resp: 61  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.1 85.7#



#16  
Acetone  
Concen: 1.365 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.000 min  
Lab File: VX039707.D  
Acq: 10 Jan 2024 16:31

Tgt Ion: 43 Resp: 1043  
Ion Ratio Lower Upper  
43 100  
58 30.6 21.9 32.9

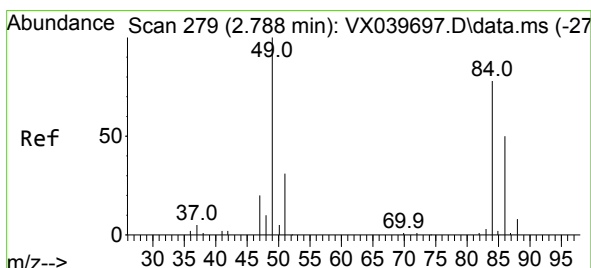
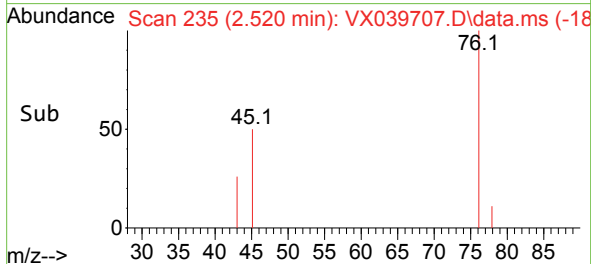
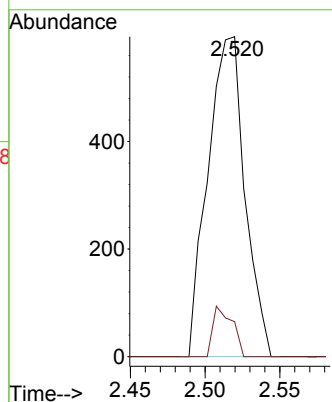
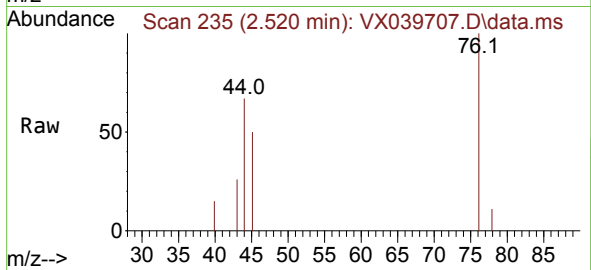




#17  
Carbon Disulfide  
Concen: 0.365 ug/l  
RT: 2.520 min Scan# 217  
Delta R.T. 0.006 min  
Lab File: VX039707.D  
Acq: 10 Jan 2024 16:31

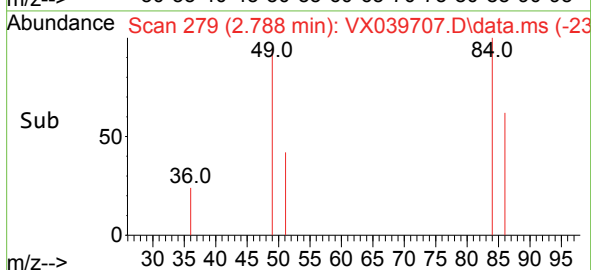
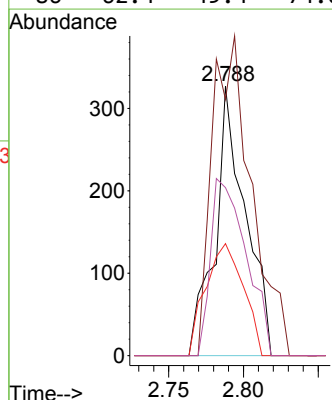
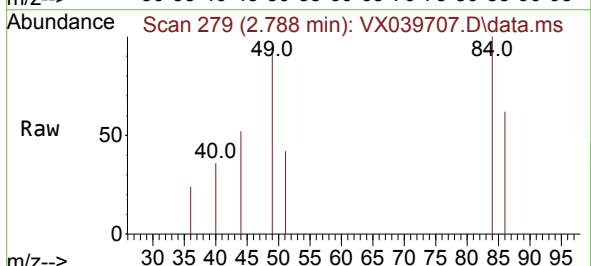
Instrument :  
MSVOA\_X  
ClientSampleId :  
OWS-PROJECT

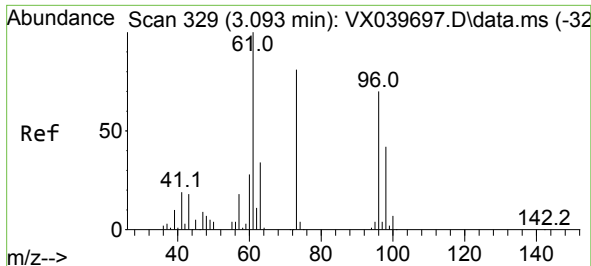
Tgt Ion: 76 Resp: 1023  
Ion Ratio Lower Upper  
76 100  
78 10.9 7.0 10.6#



#20  
Methylene Chloride  
Concen: 0.398 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. -0.000 min  
Lab File: VX039707.D  
Acq: 10 Jan 2024 16:31

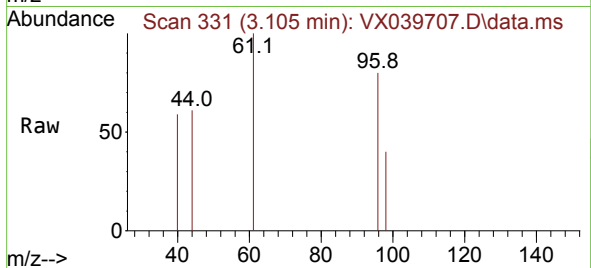
Tgt Ion: 84 Resp: 460  
Ion Ratio Lower Upper  
84 100  
49 95.1 103.6 155.4#  
51 41.6 33.8 50.6  
86 62.4 49.4 74.0



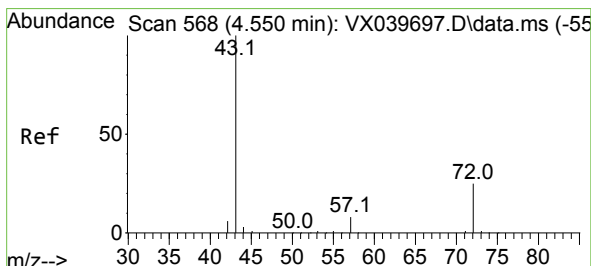
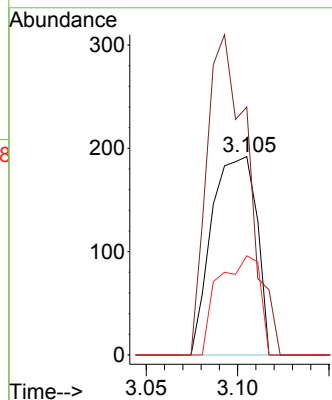
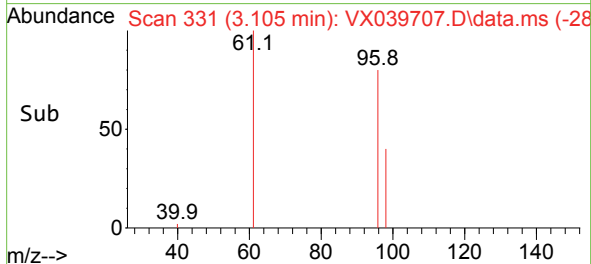


#21  
trans-1,2-Dichloroethene  
Concen: 0.319 ug/l  
RT: 3.105 min Scan# 311  
Delta R.T. 0.012 min  
Lab File: VX039707.D  
Acq: 10 Jan 2024 16:31

Instrument :  
MSVOA\_X  
ClientSampleId :  
OWS-PROJECT

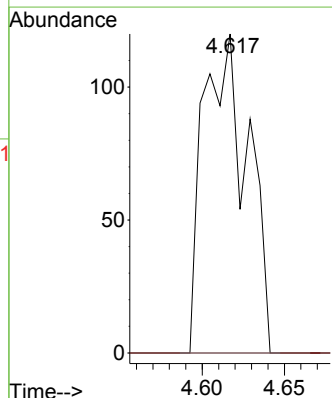
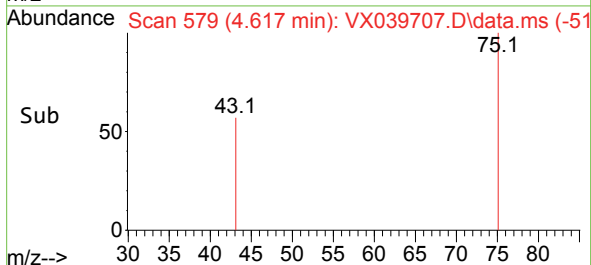
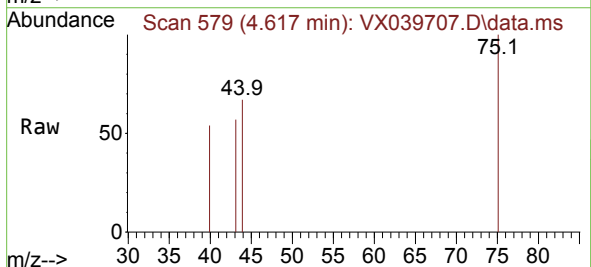


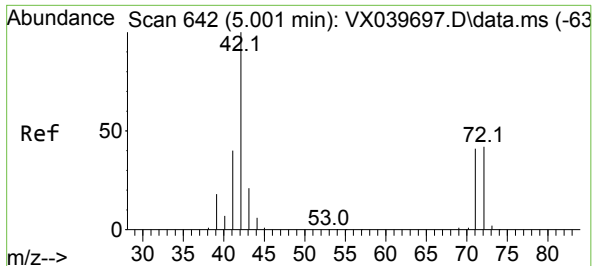
Tgt Ion: 96 Resp: 328  
Ion Ratio Lower Upper  
96 100  
61 125.0 119.2 178.8  
98 50.0 48.7 73.1



#25  
2-Butanone  
Concen: 0.206 ug/l  
RT: 4.617 min Scan# 579  
Delta R.T. 0.067 min  
Lab File: VX039707.D  
Acq: 10 Jan 2024 16:31

Tgt Ion: 43 Resp: 226  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.4 29.2#





#29

Tetrahydrofuran

Concen: 1.315 ug/l

RT: 5.019 min Scan# 642

Delta R.T. 0.018 min

Lab File: VX039707.D

Acq: 10 Jan 2024 16:31

Instrument :

MSVOA\_X

ClientSampleId :

OVS-PROJECT

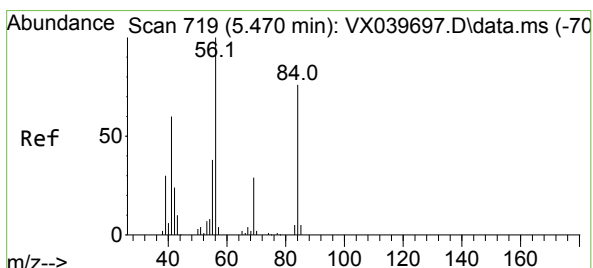
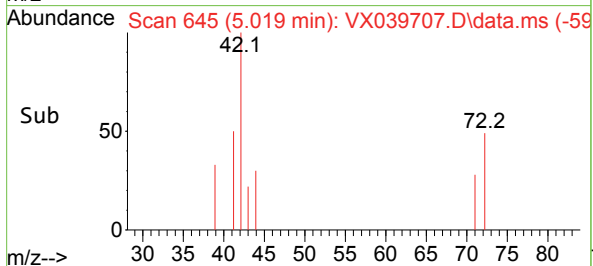
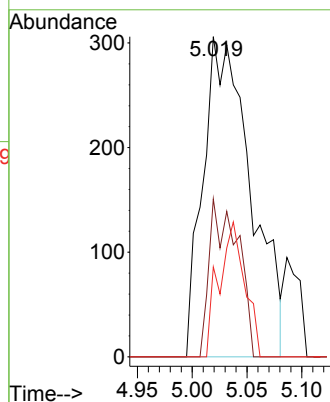
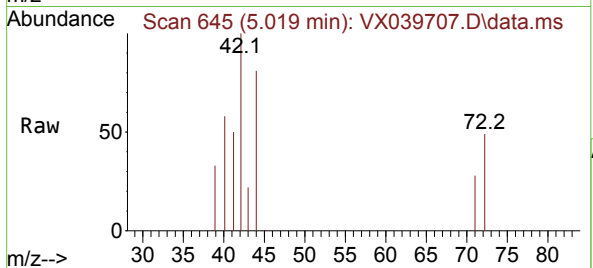
Tgt Ion: 42 Resp: 929

Ion Ratio Lower Upper

42 100

72 29.3 34.2 51.4#

71 22.8 32.2 48.2#



#31

Cyclohexane

Concen: 1.269 ug/l

RT: 5.537 min Scan# 730

Delta R.T. 0.067 min

Lab File: VX039707.D

Acq: 10 Jan 2024 16:31

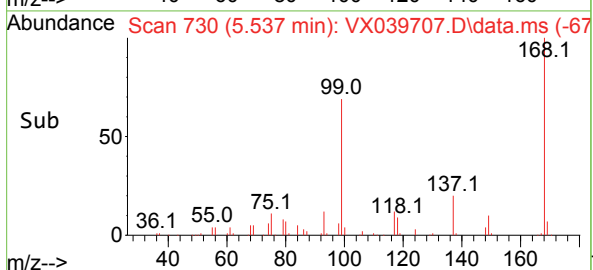
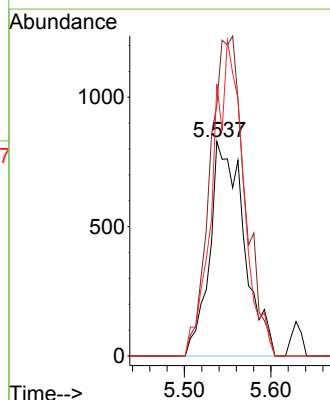
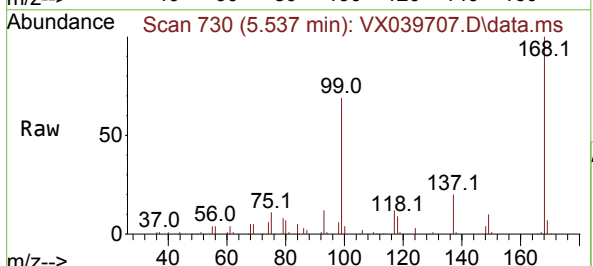
Tgt Ion: 56 Resp: 2276

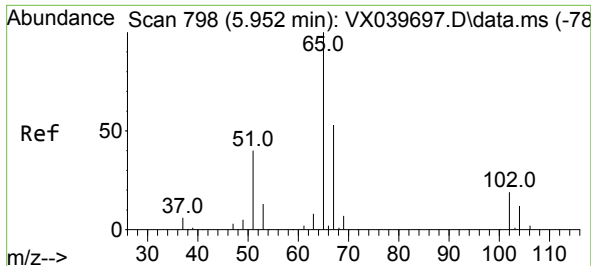
Ion Ratio Lower Upper

56 100

69 117.0 23.4 35.2#

84 126.7 65.9 98.9#

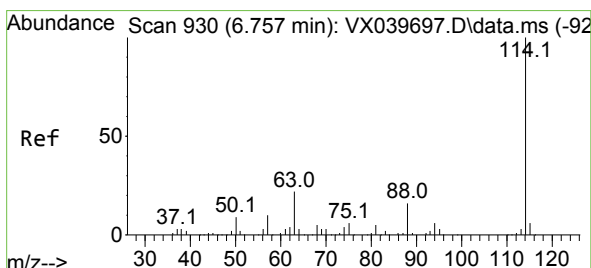
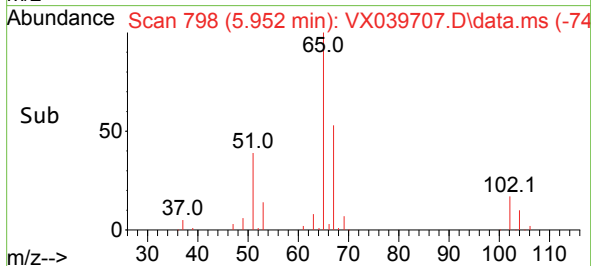
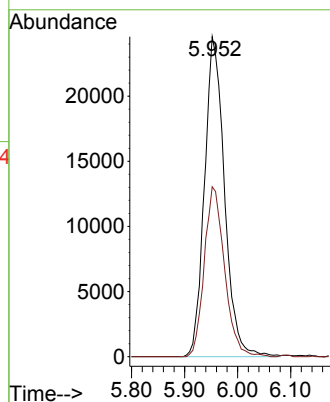
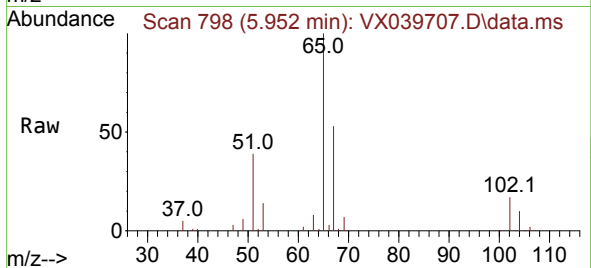




#33  
1,2-Dichloroethane-d4  
Concen: 47.426 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.000 min  
Lab File: VX039707.D  
Acq: 10 Jan 2024 16:31

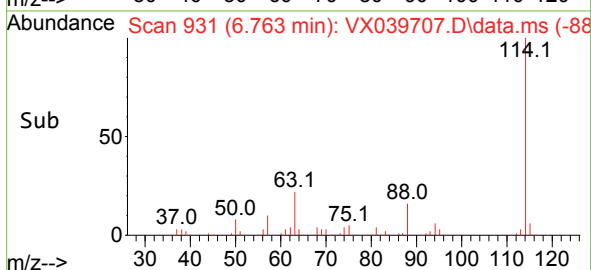
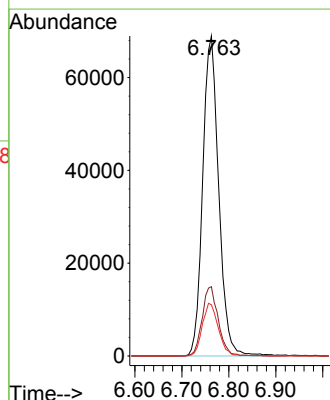
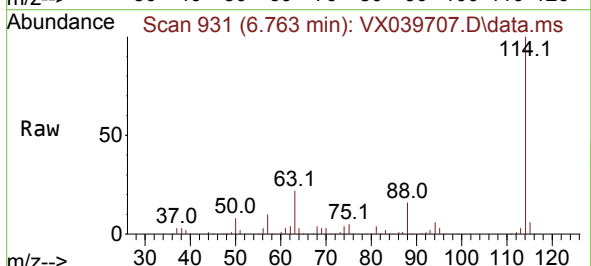
Instrument :  
MSVOA\_X  
ClientSampleId :  
OWS-PROJECT

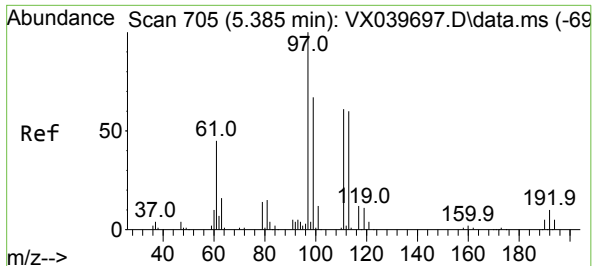
Tgt Ion: 65 Resp: 64432  
Ion Ratio Lower Upper  
65 100  
67 53.8 0.0 100.2



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 931  
Delta R.T. 0.006 min  
Lab File: VX039707.D  
Acq: 10 Jan 2024 16:31

Tgt Ion: 114 Resp: 162930  
Ion Ratio Lower Upper  
114 100  
63 21.6 0.0 45.0  
88 16.0 0.0 36.6





#35

Dibromofluoromethane

Concen: 47.634 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX039707.D

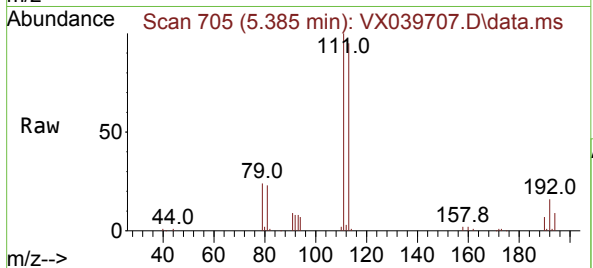
Acq: 10 Jan 2024 16:31

Instrument :

MSVOA\_X

ClientSampleId :

OVS-PROJECT



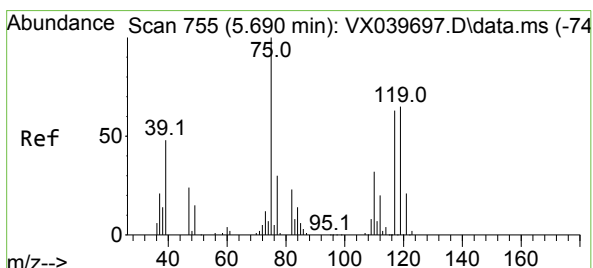
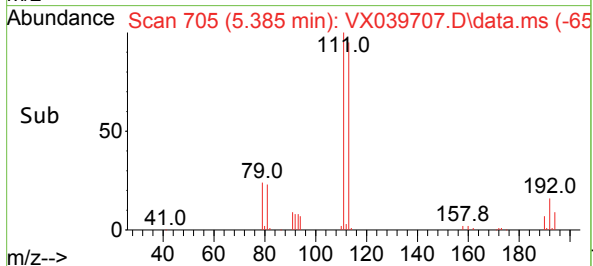
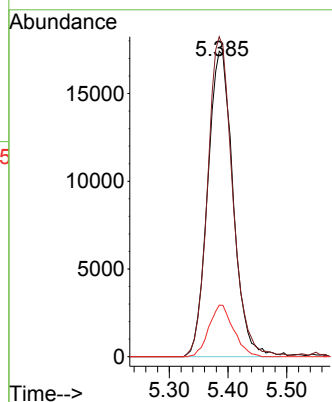
Tgt Ion:113 Resp: 52274

Ion Ratio Lower Upper

113 100

111 102.8 82.9 124.3

192 16.3 13.3 19.9



#36

1,1-Dichloropropene

Concen: 4.446 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.146 min

Lab File: VX039707.D

Acq: 10 Jan 2024 16:31

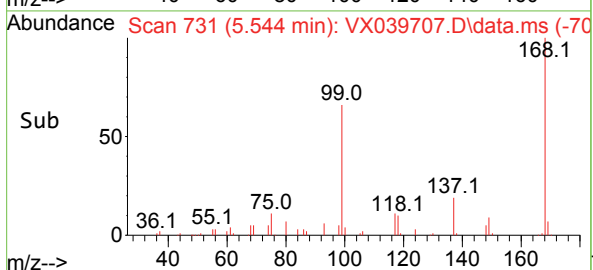
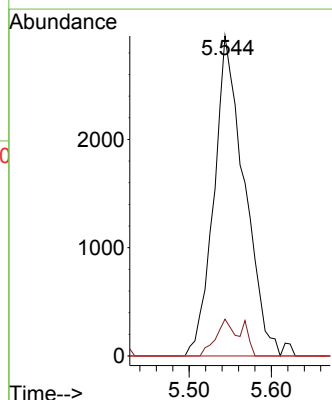
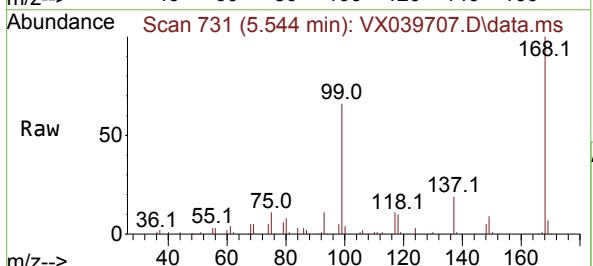
Tgt Ion: 75 Resp: 7595

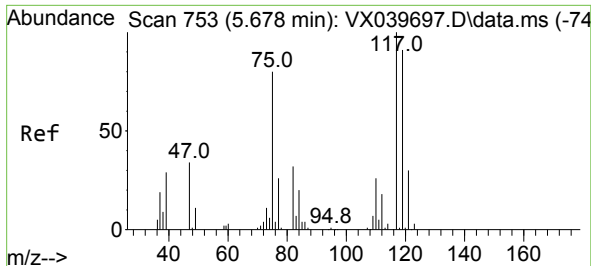
Ion Ratio Lower Upper

75 100

110 7.4 17.0 50.9#

77 0.0 24.7 37.1#

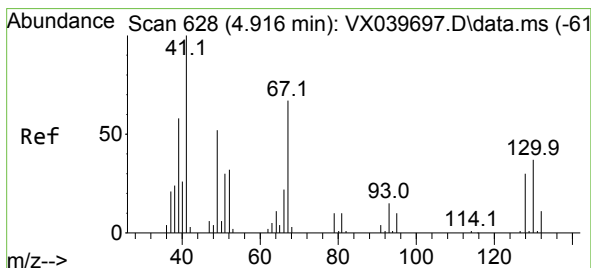
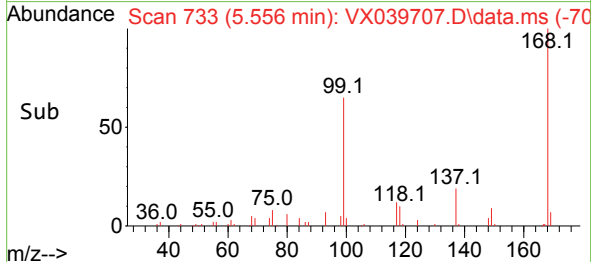
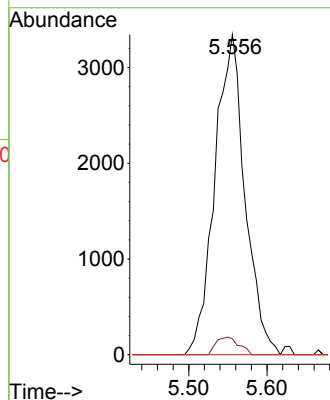
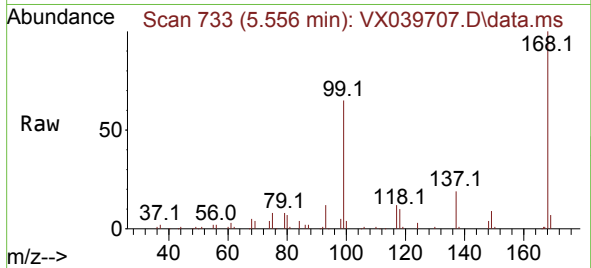




#38  
Carbon Tetrachloride  
Concen: 5.727 ug/l  
RT: 5.556 min Scan# 711  
Delta R.T. -0.122 min  
Lab File: VX039707.D  
Acq: 10 Jan 2024 16:31

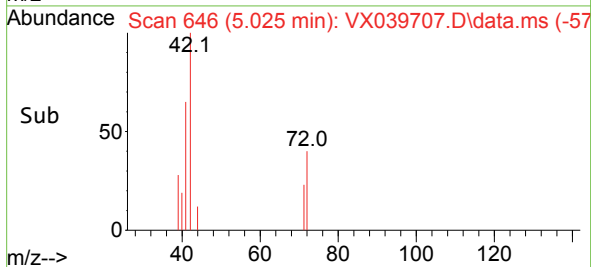
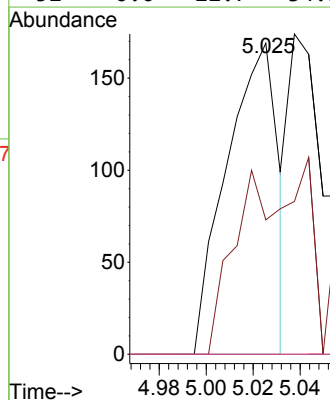
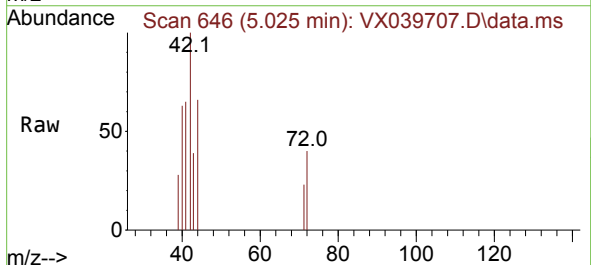
Instrument :  
MSVOA\_X  
ClientSampleId :  
OWS-PROJECT

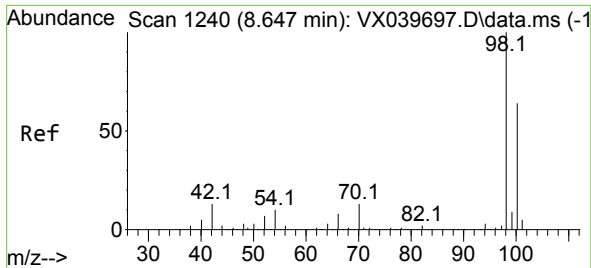
Tgt Ion:117 Resp: 8960  
Ion Ratio Lower Upper  
117 100  
119 5.0 78.2 117.2#  
121 0.0 24.4 36.6#



#41  
Methacrylonitrile  
Concen: 0.231 ug/l  
RT: 5.025 min Scan# 646  
Delta R.T. 0.110 min  
Lab File: VX039707.D  
Acq: 10 Jan 2024 16:31

Tgt Ion: 41 Resp: 257  
Ion Ratio Lower Upper  
41 100  
39 40.5 45.2 67.8#  
67 0.0 52.6 78.8#  
52 0.0 22.7 34.1#

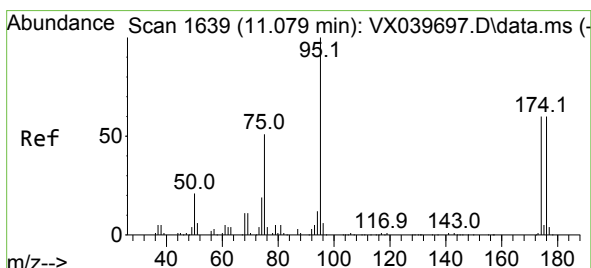
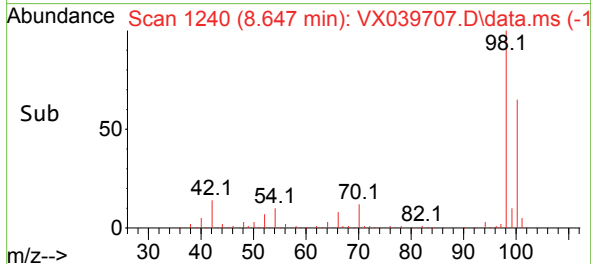
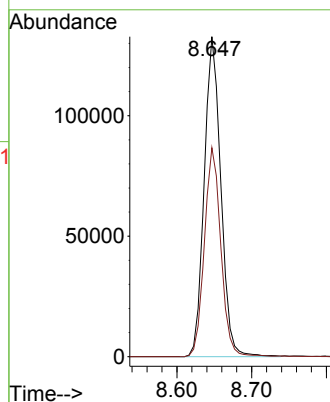
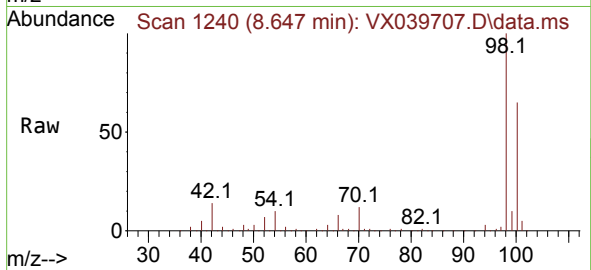




#50  
Toluene-d8  
Concen: 49.610 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX039707.D  
Acq: 10 Jan 2024 16:31

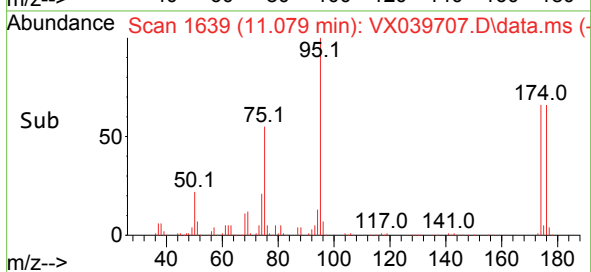
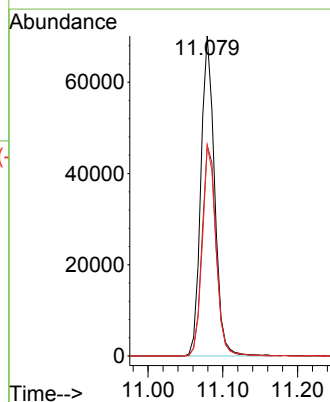
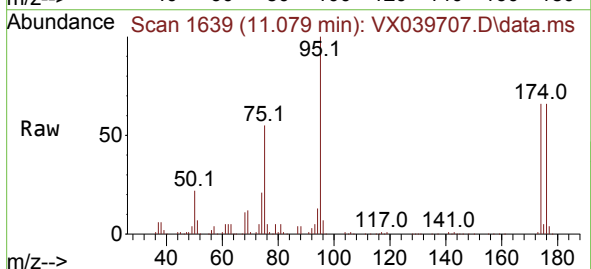
Instrument :  
MSVOA\_X  
ClientSampleId :  
OWS-PROJECT

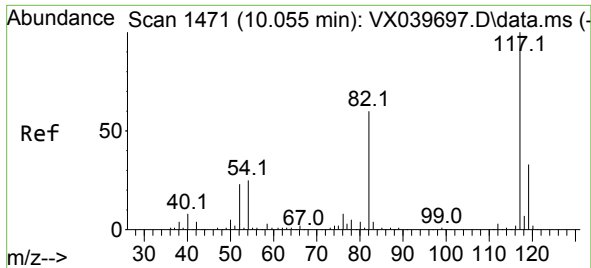
Tgt Ion: 98 Resp: 205331  
Ion Ratio Lower Upper  
98 100  
100 64.6 53.1 79.7



#62  
4-Bromofluorobenzene  
Concen: 55.173 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX039707.D  
Acq: 10 Jan 2024 16:31

Tgt Ion: 95 Resp: 89298  
Ion Ratio Lower Upper  
95 100  
174 67.2 0.0 135.6  
176 65.6 0.0 131.0

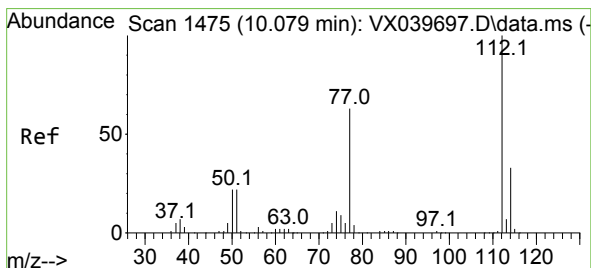
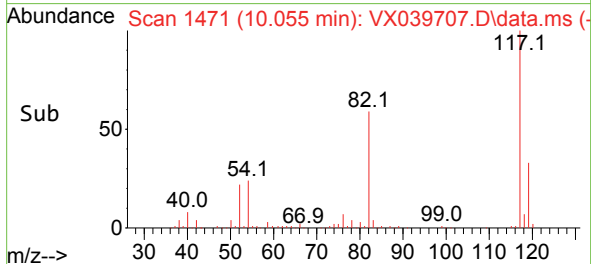
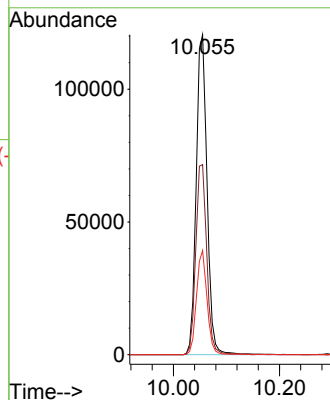
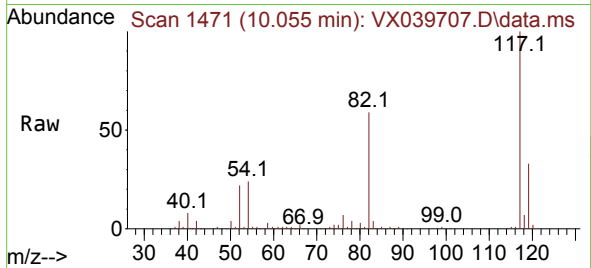




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX039707.D  
Acq: 10 Jan 2024 16:31

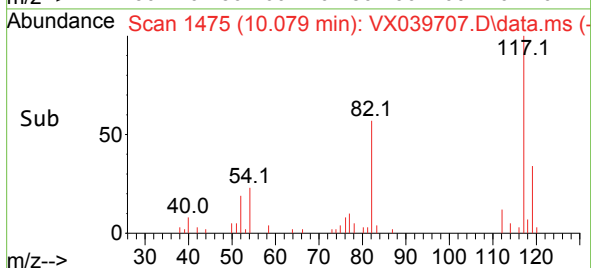
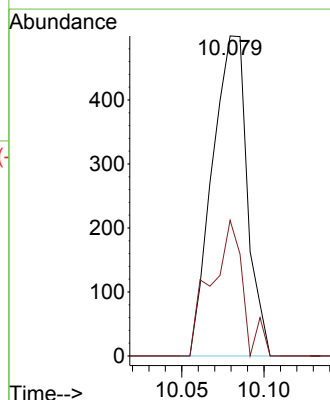
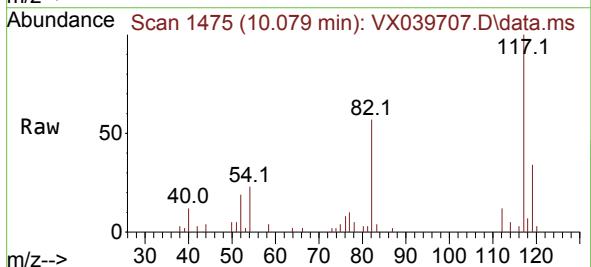
Instrument :  
MSVOA\_X  
ClientSampleId :  
OWS-PROJECT

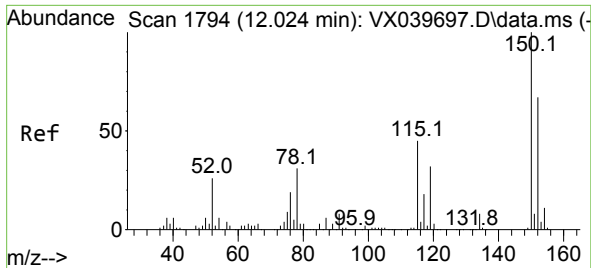
Tgt Ion:117 Resp: 171113  
Ion Ratio Lower Upper  
117 100  
82 59.4 46.2 69.4  
119 32.6 25.5 38.3



#65  
Chlorobenzene  
Concen: 0.208 ug/l  
RT: 10.079 min Scan# 1475  
Delta R.T. -0.000 min  
Lab File: VX039707.D  
Acq: 10 Jan 2024 16:31

Tgt Ion:112 Resp: 740  
Ion Ratio Lower Upper  
112 100  
114 42.4 25.7 38.5#

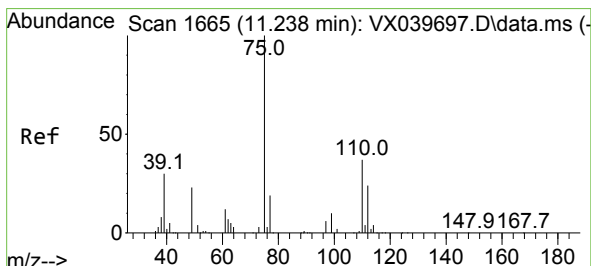
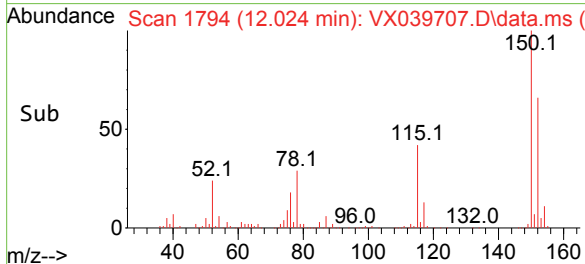
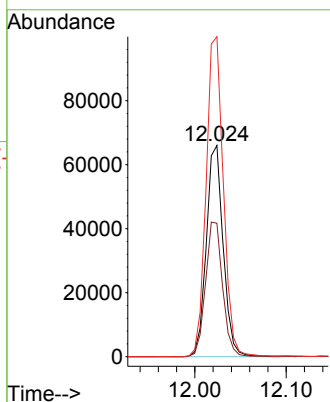
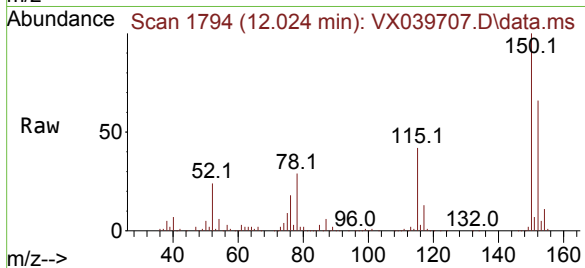




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX039707.D  
Acq: 10 Jan 2024 16:31

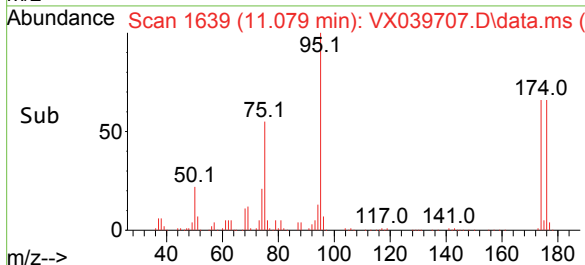
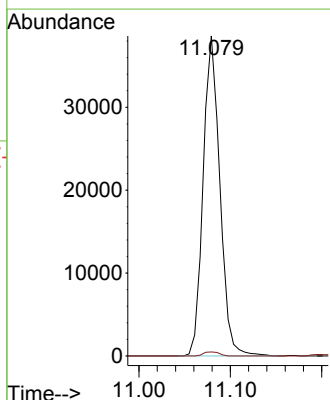
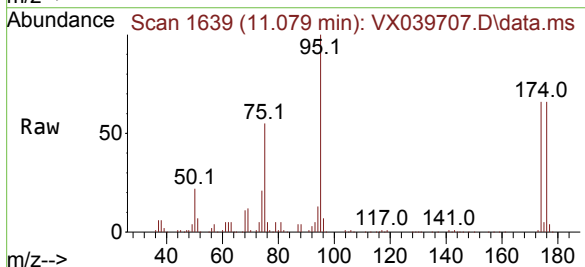
Instrument :  
MSVOA\_X  
ClientSampleId :  
OWS-PROJECT

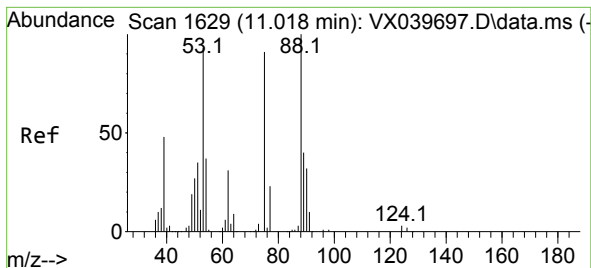
Tgt Ion:152 Resp: 84495  
Ion Ratio Lower Upper  
152 100  
115 64.5 43.3 129.9  
150 154.7 0.0 345.0



#76  
1,2,3-Trichloropropane  
Concen: 22.345 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX039707.D  
Acq: 10 Jan 2024 16:31

Tgt Ion: 75 Resp: 48950  
Ion Ratio Lower Upper  
75 100  
77 1.2 19.1 57.5#

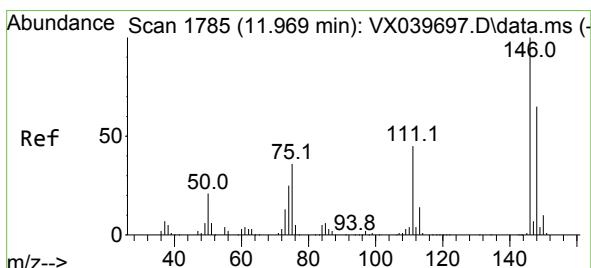
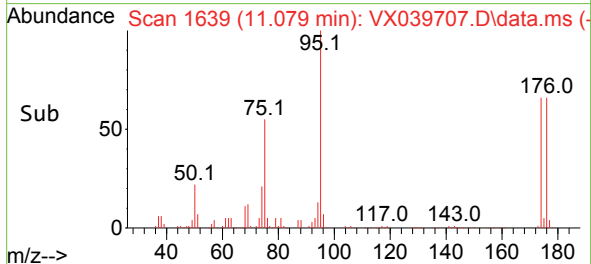
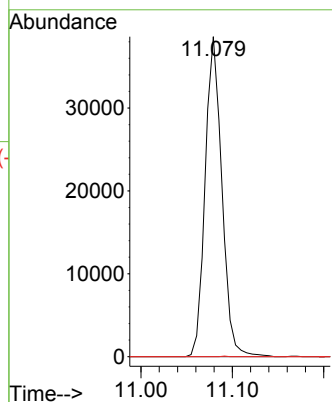
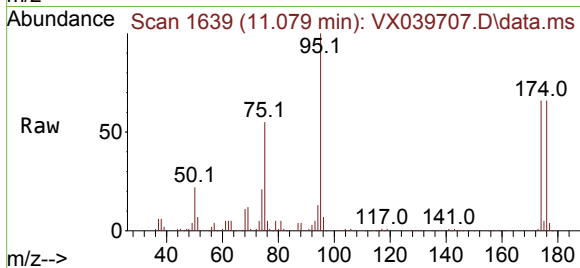




#81  
trans-1,4-Dichloro-2-butene  
Concen: 64.736 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX039707.D  
Acq: 10 Jan 2024 16:31

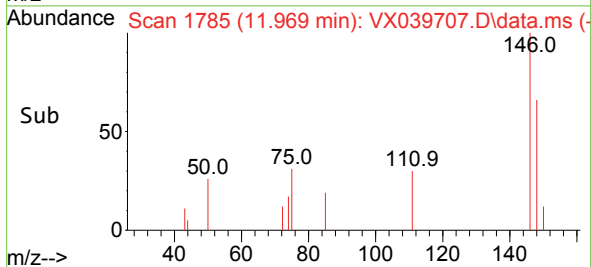
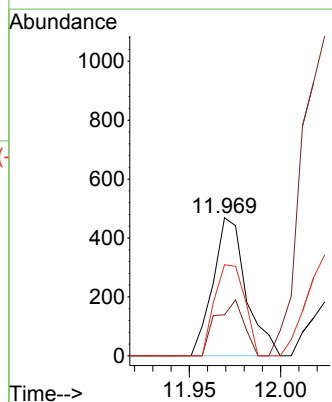
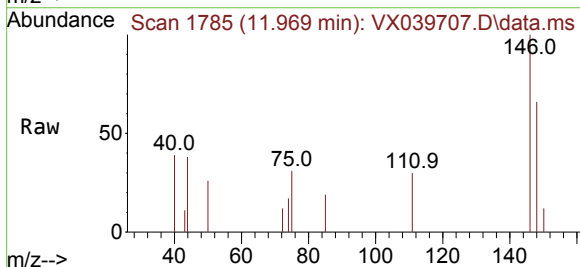
Instrument :  
MSVOA\_X  
ClientSampleId :  
OWS-PROJECT

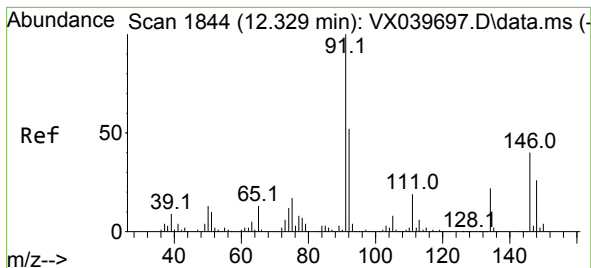
Tgt Ion: 75 Resp: 48950  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.1 36.9 55.3#



#87  
1,3-Dichlorobenzene  
Concen: 0.206 ug/l  
RT: 11.969 min Scan# 1785  
Delta R.T. -0.000 min  
Lab File: VX039707.D  
Acq: 10 Jan 2024 16:31

Tgt Ion:146 Resp: 591  
Ion Ratio Lower Upper  
146 100  
111 34.2 22.1 66.1  
148 59.9 31.8 95.3





#89

n-Butylbenzene

Concen: 0.204 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX039707.D

Acq: 10 Jan 2024 16:31

Instrument :

MSVOA\_X

ClientSampleId :

OVS-PROJECT

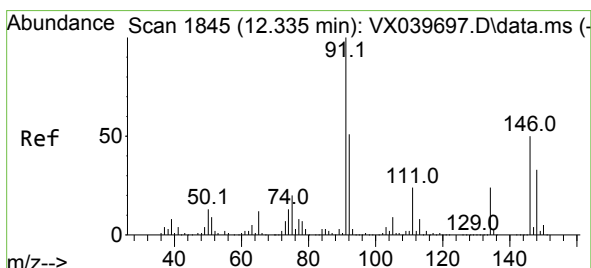
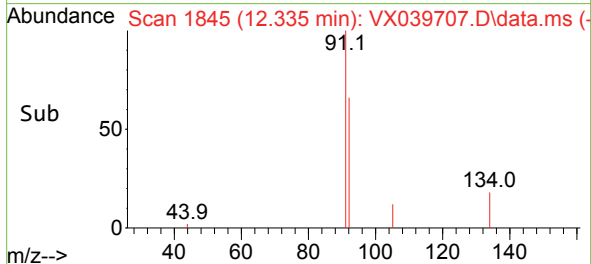
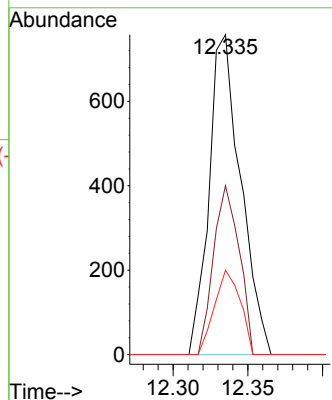
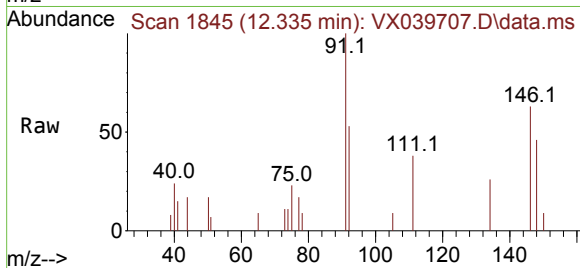
Tgt Ion: 91 Resp: 1116

Ion Ratio Lower Upper

91 100

92 42.7 27.4 82.0

134 21.5 12.6 37.8



#91

1,2-Dichlorobenzene

Concen: 0.221 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. -0.000 min

Lab File: VX039707.D

Acq: 10 Jan 2024 16:31

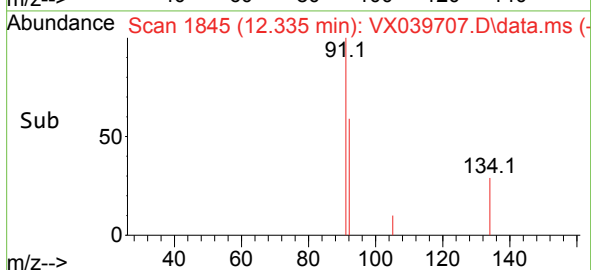
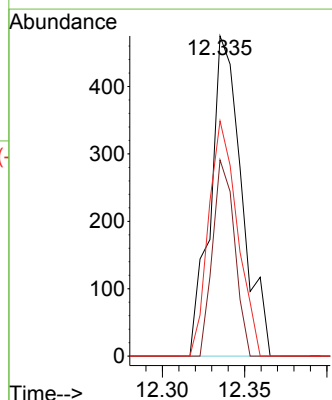
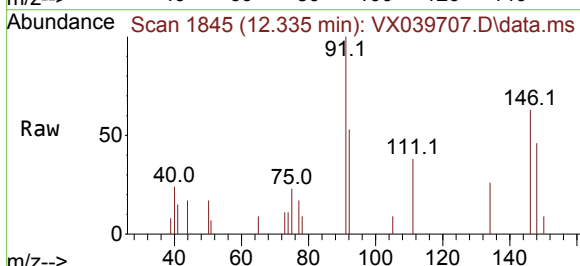
Tgt Ion:146 Resp: 628

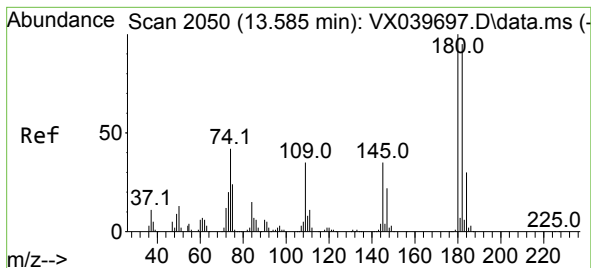
Ion Ratio Lower Upper

146 100

111 43.0 22.4 67.0

148 67.4 31.6 95.0





#93

1,2,4-Trichlorobenzene

Concen: 0.609 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.006 min

Lab File: VX039707.D

Acq: 10 Jan 2024 16:31

Instrument :

MSVOA\_X

ClientSampleId :

OVS-PROJECT

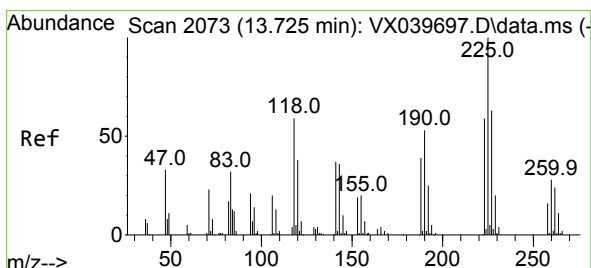
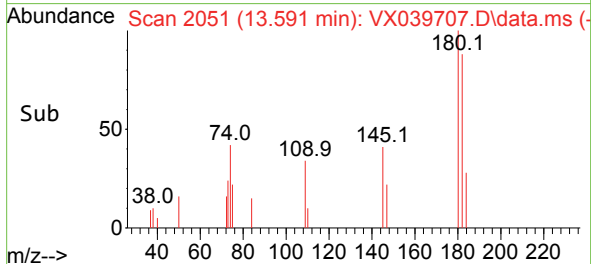
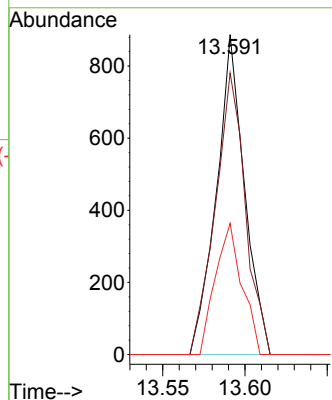
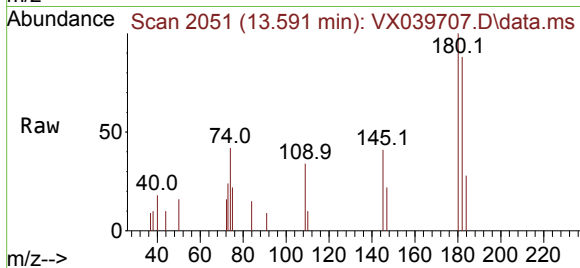
Tgt Ion:180 Resp: 1056

Ion Ratio Lower Upper

180 100

182 93.8 48.3 144.8

145 38.8 18.0 54.0



#94

Hexachlorobutadiene

Concen: 0.607 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. -0.000 min

Lab File: VX039707.D

Acq: 10 Jan 2024 16:31

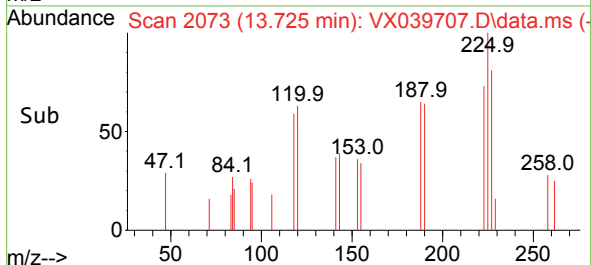
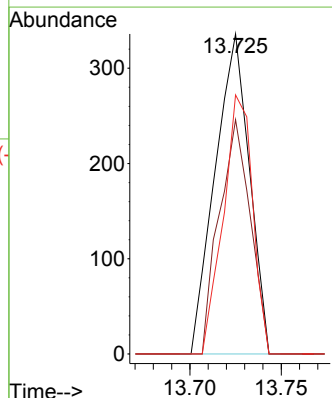
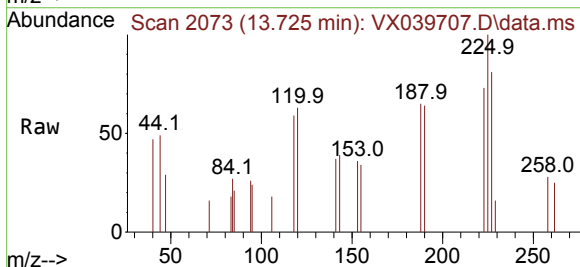
Tgt Ion:225 Resp: 438

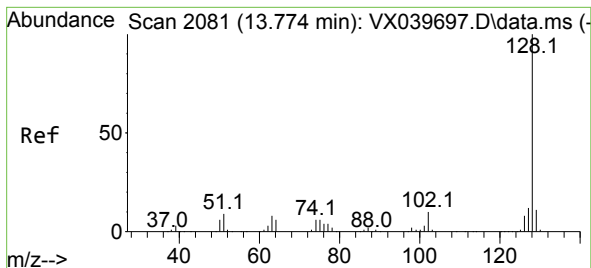
Ion Ratio Lower Upper

225 100

223 66.2 31.1 93.2

227 69.2 32.5 97.5





#95

Naphthalene

Concen: 0.415 ug/l

RT: 13.780 min Scan# 2081

Delta R.T. 0.006 min

Lab File: VX039707.D

Acq: 10 Jan 2024 16:31

Instrument :

MSVOA\_X

ClientSampleId :

OVS-PROJECT

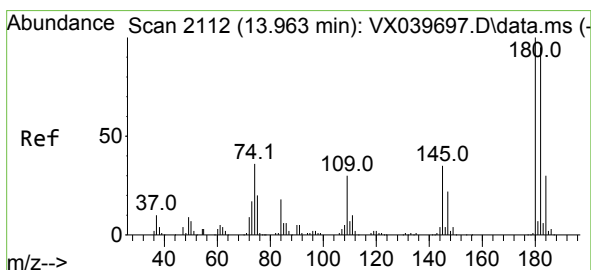
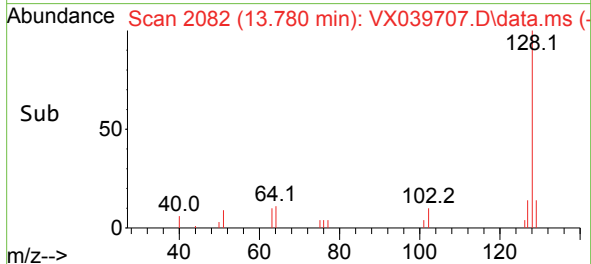
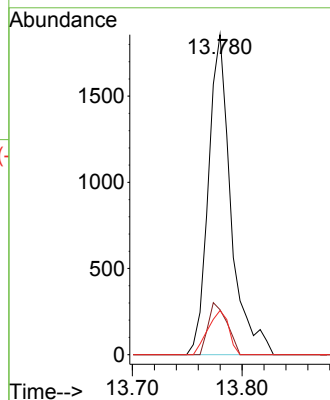
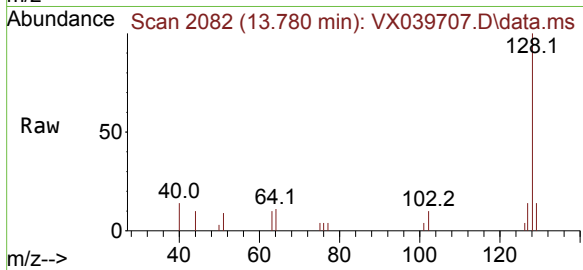
Tgt Ion:128 Resp: 2648

Ion Ratio Lower Upper

128 100

127 13.6 10.3 15.5

129 12.7 8.8 13.2



#96

1,2,3-Trichlorobenzene

Concen: 0.302 ug/l

RT: 13.957 min Scan# 2111

Delta R.T. -0.006 min

Lab File: VX039707.D

Acq: 10 Jan 2024 16:31

Tgt Ion:180 Resp: 529

Ion Ratio Lower Upper

180 100

182 78.1 46.9 140.6

145 21.0 17.8 53.5

